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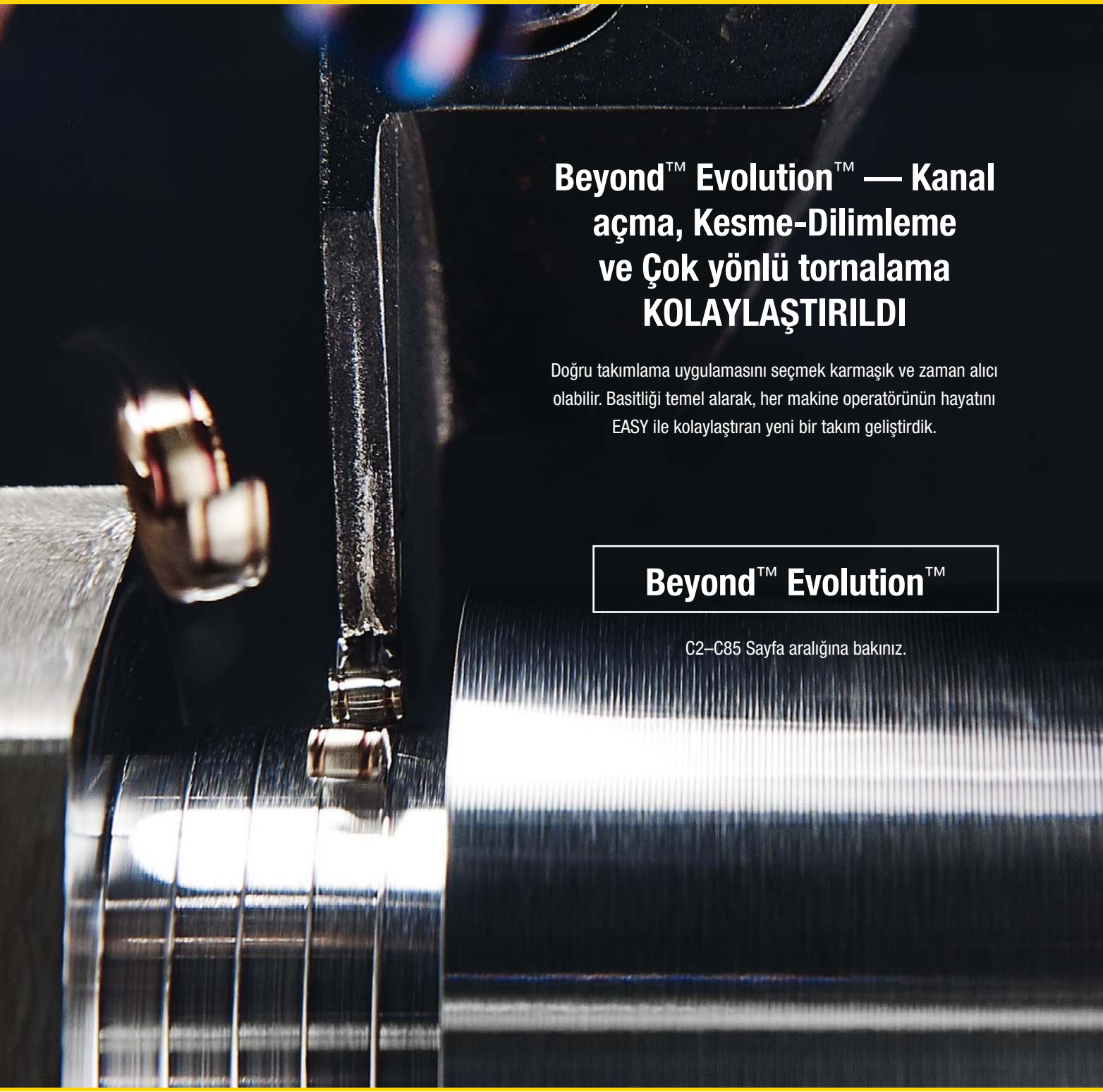
KENNAMETAL®

ANA KATALOG 2018

CİLT BİR | **TORNALAMA** TAKIMLARI



ISOTornalama | Kanal açma ve Kesme-Dilimleme | Tornada vida dişi tornalama | Uygulama özellikli



Beyond™ Evolution™ — Kanal açma, Kesme-Dilimleme ve Çok yönlü tornalama KOLAYLAŞTIRILDI

Doğru takımlama uygulamasını seçmek karmaşık ve zaman alıcı olabilir. Basitliği temel alarak, her makine operatörünün hayatını EASY ile kolaylaştıran yeni bir takım geliştirdik.

Beyond™ Evolution™

C2–C85 Sayfa aralığına bakınız.

1938 yılında faaliyete geçtiğinden bu yana Kennametal, eşsiz ürün ve hizmetler sunup işletim maliyetlerini düşürerek ve hazırlık sürelerini kısaltarak, üretim performansı ve karlılığının tam olarak nasıl artırılacağının esasını kavramıştır.

Bu 900' den fazla sayfada, en zorlu metal işleme uygulamalarında da genel verimliliği artırmak üzere özel olarak tasarlanmış tornalama ürünleri ve üstün hizmetleriyle ilgili en güncel unsurlar verilmektedir. Kennametal' e güvenerek üretim rekabetini önemli ölçüde artırabilirsiniz.

Daha fazla bilgi almak için, Kennametal Temsilciniz veya Yetkili Kennametal Satıcı ve Dağıtımcı bayisi ile iletişime geçiniz. Bizi, kennametal.com adresinde ziyaret edebilirsiniz.

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Tornalama

ÖNE ÇIKAN ÜRÜNLER

BEYOND™ EVOLUTION™

Daha fazla bilgi için C bölümüne bakınız.

Kennametal, Beyond™ Evolution™'u tanıtmaktan gurur duyar. Bu yenilikçi gövde kolaylık üzerine yapılandırılmıştır ve günümüzün kanal açma ve kesme-dilimleme işlemlerinde iddialıdır. Bu yüksek performanslı Beyond™ Evolution™ sistemi çok yönlü ve esnek olduğundan, doğru takımın seçilmesi kolaylaşır. Piyasada bulunan, tüm kanal açma ve kesme-dilimleme uygulamalarını mevcut rakiplerden %35' e kadar daha az takımlama ile tamamlayan ilk ürün programıdır.

Tescilli soğutma sıvısı besleme sistemi, soğutma sıvısını talaşın altındaki kesme kenarlarına odaklı olarak yönlendirir; bu yöntem, kanal açma ve kesme-dilimleme uygulamalarında ısının ortadan kaldırılması için en iyi yöntemdir.



beyond™ EVOLUTION™

BEYOND™ DRIVE™

Daha fazla bilgi için B bölümüne bakınız.

Beyond™ Drive™ ISO tornalama uçları, %50' ye kadar daha iyi kesici uç kesme kenarı kullanımı sağlar. Gelişmiş yüzey işlemi, kaplama gerilimini azaltır ve kaplama yapışkanlığını iyileştirir. Bronz dış katman, aşınma algılamasını kolaylaştırır ve kesici uç kullanımını artırır. Beyond™ teknolojili PVD, KCU10™ ve KCU25™ kaliteler, tok alaşımlarda yüksek işleme ısıl direncine sahiptir. %30–40' a kadar daha uzun takım ömrü sağlayarak, genel makina imalatı, taşımacılık, havacılık, enerji ve hafriyat sektörlerinde daha fazla kazanç sağlanabilir. PVD kaplama, çok çeşitli malzemede ve uygulamada tutarlı talaş kontrolü sağlar ve tornalama, kanal açma ve kesme-dilimleme işlemlerinde kesici uç kesme kenarı aşınmasını en aza indirmeye yardımcı olur.



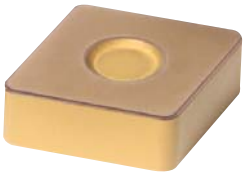
beyond™ DRIVE™



KBK45™ İLE DÖKME DEMİR TORNALAMA

Daha fazla bilgi için B bölümüne bakınız.

KBK45, fren diski ve volan gibi gri dökme demir malzemeleri yüksek performanslı işleme için tasarlanmış yeni bir yüksek içerikli PcBN kalite. Kullanılmayan köşelerin boşa gitmesini azaltmak, vardiyalar arasında takım değişikliklerini sağlayıp parça başı maliyeti (CPP) azaltmak ve daha güvenilir ürünler kullanarak üretilen parça sayısını artırmak üzere tasarlanmıştır. KBK45 mükemmel bir parça başı maliyet (CPP) değeri sağlar.



KBH20™ İLE SERT TORNALAMA

Daha fazla bilgi için B bölümüne bakınız.

KBH20, orta şiddete kadar darbe içeren sürekli hafif darbeli uygulamalar için, ideal PcBN sert tornalama kalitesidir. Yapısı ve farklı kenar hazırlıkları, yüksek hızlarda da, dar ve tekrarlanabilir parça parçası toleransları, mükemmel hassas son işlemeli yüzeyler ve yüzey bütünlüğü sağlar.

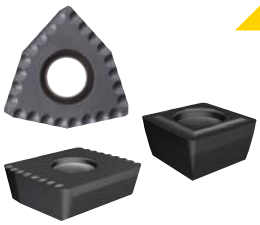
KBH20, dişliler, şaftlar ve diğer tahrik dizisi bileşenleri gibi yüzeyi sertleştirilmiş bileşen uygulamaları için yeni bir altyapıdır.

Nano kompozit kaplama hız yeteneğini ve takım ömrünü geliştirir. Gelişmiş kenar hazırlığı, daha uzun takım ömrü, güvenilir performans ve daha iyi hassas son işlemeli yüzey sağlar.



Delik işleme

ÖNE ÇIKAN ÜRÜNLER



DRILL FIX™ DFSP™

DEĞİŞTİRİLEBİLİR DS VE LP KESİCİ UÇLU MATKAPLAR

Daha fazla bilgi için J bölümüne (Cilt iki) bakınız.

DFSP, genişletilmiş olan Drill Fix DFS™ değiştirilebilir kesici uçlu delik delme gövdesinin yeni tanımıdır. Standart çap aralığı artık 14–55mm aralığında 2 x D, 3 x D, 4 x D ve 5 x D Boy/Çap oranlarında sunulmaktadır. DFSP, ekonomik şekilli kare tip dış konumlu kesici uç ile üçgen iç konumlu kesici ucun üstün merkezleme kapasitelerini bir araya getirir. Bu değiştirilebilir kesici uçlu matkaplar, yüksek talaş kaldırma oranları, yüksek yüzey kalitesi ve delik dik doğruluğu sağlar.

Yeni DS ve LP talaş kırıcı kesici uç tasarımları, Drill Fix DFSP, DFT™ ve HTS değiştirilebilir kesici uçlu matkaplarla ve KSEM PLUS™ modüler matkaplarla kullanabilir. Bu kesici uçlar, düşük karbonlu çeliklerde ve diğer uzun talaş veren malzemelerde mükemmel talaş oluşumu sağlar.

KENTIP™ FS

KARBÜR VE DEĞİŞTİRİLEBİLİR KESİCİ UÇLU MATKABIN MÜKEMMEL BİRLEŞİMİ

Daha fazla bilgi için H bölümüne (Cilt iki) bakınız.

Yeni modüler KenTIP FS matkap, diğer tip modüler sitemlerden daha fazla uygulamalarını kapsar ve daha iyi performans elde edilmesine neden olur, önemli ölçüde maliyetten tasarruf sağlar ve işleme atölyesinde süreci kolaylaştırır.

- 3 uçlu geometri, 3 yüksek performanslı kalite, 3 değişik şaft tipi.
- 6–26mm çap aralığı.
- 12 x D ölçüye kadar delme derinliği sağlar.
- Çelik, paslanmaz çelik ve dökme demirde uygulanabilir.

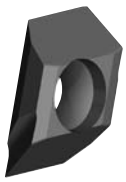




COUNTERFIX MICRO

KÜÇÜK KESİCİ UÇLAR BÜYÜK FARK YARATIR!

Daha fazla bilgi için H bölümüne (Cilt iki) bakınız.



Yeni CounterFix Micro (CFM) teğetsel kesici uçlar, delik delme, pah kırma ve delik genişletme işlemlerini iyileştirmenin yeni bir yolunu sunar. Özel tasarım kademeli matkaplarda çok küçük bağıl kademeler, kesme kenarı başına daha uzun takım ömrü ve iyileştirilmiş hassas son işlemeli yüzey sağlarlar.

CFM kesici uçlar, KenTIP, KSEM™, Drill Fix ürünlerinde ve siparişe daaylı imal edilen değiştirilebilir kesici uçlu havşa açma (konik freze) takımları için kullanılabilir.

Özel üretilen KenTIP FS matkaplar için CounterFix Micro 2018' de isteğe bağlı olarak mevcut olacaktır.

SGL DRILLS MATKAPLAR PASLANMAZ ÇELİK İÇİN İÇTEN SOĞUTMALI

Daha fazla bilgi için G bölümüne (Cilt iki) bakınız.

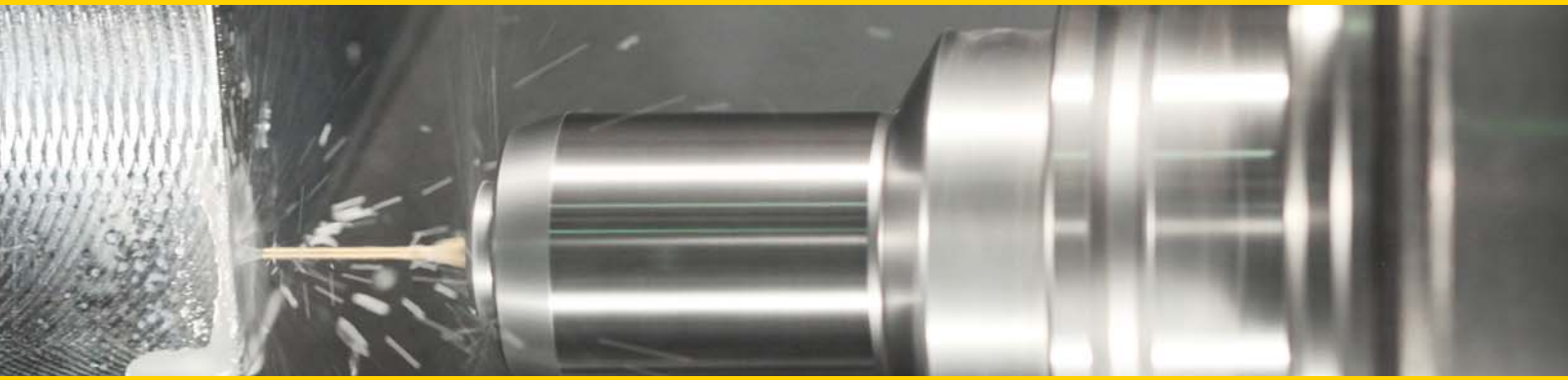
Tüm yeni B21_SGL serisi karbür matkaplar, özellikle paslanmaz çelik uygulamaları için, ısıl dirençli alaşımlarında ve standart çeliklerde yüksek performans ve uzun takım ömrü sağlamak üzere tasarlanmıştır.

Patentli derin kertik kesme kenarı, eşsiz bir kanal tasarımı ve sınıfının en iyisi kaplama gibi benzersiz Kennametal özelliklerini, tamamen yeni SGL uç geometrisi ile tek bir takımda birleştiren B21*SGL matkap son derece yüksek hacimli imalat takımıdır.

Tümüyle yeni B27_SGL serisi, özellikle paslanmaz çelik ve ısıl dirençli alaşımlarda 40 x D' ye kadar olan uygulamalarda derin delik delme için tasarlanmıştır.









SERT MALZEMELER İÇİN YENİ KMH MATKAPLAR

Daha fazla bilgi için G bölümüne (Cilt iki) bakınız.

Tümüyle yeni KMH Karbür matkaplar, 65 HRC' ye kadar olan sert malzemeler için üretilmiştir. Dıştan soğutmalı B94_Matkap serisi, özellikle sertleştirilmiş ve yüzeyi sertleştirilmiş malzemeleri işlemede dıştan soğutma besleme yönetemi kullanılmak üzere tasarlanmıştır.145° uç açılı olanlar, dıştan soğutmalı B95_Matkap serisi için ve daha derin uygulamalar için 140°uç açılı olanlar bir pilot matkap olarak mükemmel uygunluktadır.

Her iki seride matkabı güçlendirmek için geliştirilmiş bir öz var olup, zırh kenarı boşluklarında talaş kaynamasını engelleyen köşe pahlı kavisli bir kesme kenarı özelliği sayesinde zorlu malzemelerde takım ömrünü uzatmaya olanak sağlar.

RMR™ VE RHR™ DİSK PLAKALI RAYBALAR

Daha fazla bilgi için K bölümüne (Cilt iki) bakınız.

14–42,5mm çaplar için karbür raybalara benzer performans, kalite ve bilenebilirlik sağlar.

Yaygın kullanılan raybalarda, çelik gövdeye lehimlenmiş tekli uçlar vardır. Yeni Kennametal RMR ve RHR raybalarda, çelik gövde üzerine lehimlenmiş bir karbür disk vardır. Bu sayede, standart uçlu raybaya göre daha fazla bileme yapılabilir ve delik başına maliyet önemli ölçüde düşürülür. Yeni KCU05 kaplama, iş parçası malzemesine bağlı olarak geleneksel rayba kaplamalarının iki katı kadar hassas son işlemeli yüzey kalıcılığı sağlar.





GOTAP™

ÇOK AMAÇLI HSS-E KILAVUZLAR

Daha fazla bilgi için M bölümüne (Cilt iki) bakınız.

GOtap, paslanmaz çelik, karbon ve alaşım çelikler, dökme alüminyum ve düktil demir gibi çok çeşitli düktil malzemelerde vida dişi açabilen PVD kaplamalar ve en uygun duruma getirilmiş geometriler içeren çok amaçlı kılavuz grubumuzdur. GOtap çok farklı takım tezgahlarında ve uygulama koşullarında kullanılabildiğinden, çok yönlülüğünü parçanın ötesine taşımaktadır. Yeni GOtap TC, aşırı ilerleme nedeniyle boyutlandırma problemleri olmaksızın, basma ve çekme özellikli tutucularla kör delik vida dişi açma olanağı ağlar. GOtap' ın çok yönlülüğü, verimlilikten ödün verilmeksizin daha düşük stok maliyetleri, tutarlı takım ömrü ve yüksek hassas son işlemeli vida dişi kalitesi anlamına gelir.

Karbür parmak frezeler

ÖNE ÇIKAN ÜRÜNLER

DUO-λOCK®

Daha fazla bilgi için O bölümüne (Cilt iki) bakınız.

Duo-Lock™, karbür uçlu frezeleme uygulamaları için devrim niteliğinde bir bağlantıdır. Bu değiştirilebilir kafalı tasarımda, yüksek salgı doğruluğu ve boydan boya tekrarlanabilirlik, maksimum kararlılıkla bir araya getirilmekte, böylelikle zorlu frezeleme uygulamaları için hassas ve neredeyse kırılmaz bir arayüz oluşturulmaktadır.

— **1 x D ölçüsüne kadar tam kanal açma yeteneği, talaş kaldırma oranlarını arttırarak verimliliği önemli ölçüde yükseltir.**

— **1.5 x D standart kesme kenarı uzunluğu daha az geçişli işleme sağlar.**

— **Yüksek performanslı karbür takımlara eşdeğer kesme değerlerine ve takım ömrüne sahiptir.**



DUO-λOCK®
HAIMER® ve Kennametal



HARVI™ III GRUBU

Daha fazla bilgi için P bölümüne (Cilt iki) bakınız.

HARVI III, Isıl dirençli alaşım işleme, profil işleme, yarı hassas işleme ve hassas son işleme uygulamaları için ilk tercihtir. Beyond kalite KCSM15™, Titanyum ve paslanmaz çelik malzemelerde maksimum talaş kaldırma oranları, sık raslanmayan sıradışı takım ömrü ve mükemmel hassas son işlemeli yüzeyler sağlar.

— **Karmaşık 5 eksenli işleme için konik küresel baş.**

— **3D profil işleme için küresel kafa.**

— **Yarı işleme/hassas son işleme işlemleri için dört köşeli uç.**

beyond™



BEYOND™ EADE DOLU SERAMİK PARMAK FREZELER

Daha fazla bilgi için P bölümüne (Cilt iki) bakınız.

Beyond™ EADE karbür seramik parmak frezeler, nikel esaslı yüksek ısıl dirençli alaşımların kaba işleme uygulamalarında daha yüksek verimlilik sağlar. Daha kısa işleme süresiyle EADE seramik parmak frezler, karbür takımlara göre önemli ölçüde daha uzun takım ömrü de sağlar.

— Beyond kalite KYS40™, 1000 m/dk. değerine kadar kesme hızları sağlar.



beyond



GOMILL™ GP GÖVDE

Daha fazla bilgi için Q bölümüne (Cilt iki) bakınız.

GOmill GP takımlar, çok çeşitli iş parçası malzemelerinde dalma, kanal açma ve profil işleme ve ayrıca daha uzun takım ömrü sağlar. Mükemmel bir maliyet ve fayda oranıyla daha yüksek talaş kaldırma oranları (MRR) ve hassas son işlemeli iyi yüzeyler sağlayacak şekilde tasarlanmışlardır.

— Tek bir takımla kaba işleme ve hassas son işleme uygulamaları.

— Mükemmel maliyet ve fayda oranı.

— Daha uzun takım ömrü için çoklu katmanlı KC633M™ kaliteler.

Değiştirilebilir kesici uçlu frezeleme

ÖNE ÇIKAN ÜRÜNLER

MILL 4-11™ VE MILL 4-15™

Daha fazla bilgi için T bölümüne (Cilt iki) bakınız.

Mill 4-11™ ve Mill 4-15™ serisi, dik kenar frezeleme uygulamalarında mükemmel yüzey kalitesi ve daha yüksek talaş kaldırma oranları elde edecek şekilde özel olarak tasarlanmıştır. Bu benzersiz tasarımla, birden fazla geçişli işleme (geri çıkış) üstün sonuçlarla elde edilir.

Mill 4-11 serisi çelik, dökme demir, paslanmaz çelik, demir dışı malzemeler ve yüksek ısıl dirençli alaşımlarda kaba işlemeden hassas son işleme ye kadar olan uygulamalarda kullanabilir. Mill 4-15 serisi çelik, dökme demir, paslanmaz çelik ve titanyum malzemelerde kaba işlemeden hassas son işleme kadar olan uygulamalarda kullanabilir.





MILL 16™

Daha fazla bilgi için S bölümüne (Cilt iki) bakınız.

Yeni Mill 16™ serisi, dökme demir malzemeden (CGI, DCI, GCI), motor silindir kafaları ve motor blokları, gövdeler ve dişli kutular gibi bileşenlerin kaba frezelenmesi ile diğer tüm dökme demir yüzey frezeleme işleri için özel olarak tasarlanmış bir gövdedir.



KCSM40™

TİTANYUM İŞLEME İÇİN YENİ FREZELEME KALİTESİ

Titanyum ve paslanmaz çeliklerde kaba işleme ve hassas işleme uygulamaları (S40, M30 uygulama aralığı) için geliştirilmiş devrim yaratan değiştirilebilir kesici uçlu frezeleme kalitesi.

Bu değiştirilebilir kesici uçlu frezeleme gövdelerinde kullanılabilenler:
Mill 1-10™, Mill 1-14™, Mill 1-18™, Mill 4-11™, Mill 4-15™, Dodeka™ Mini, Dodeka, Dodeka MAX™, MEGA™, KSOM™ Mini, KSOM™, KSRM™, NGE™, KSSM™ 90, KSSM8+™, Rodeka™, Stellram® 5230, Stellram 7713 ve Stellram 7792.





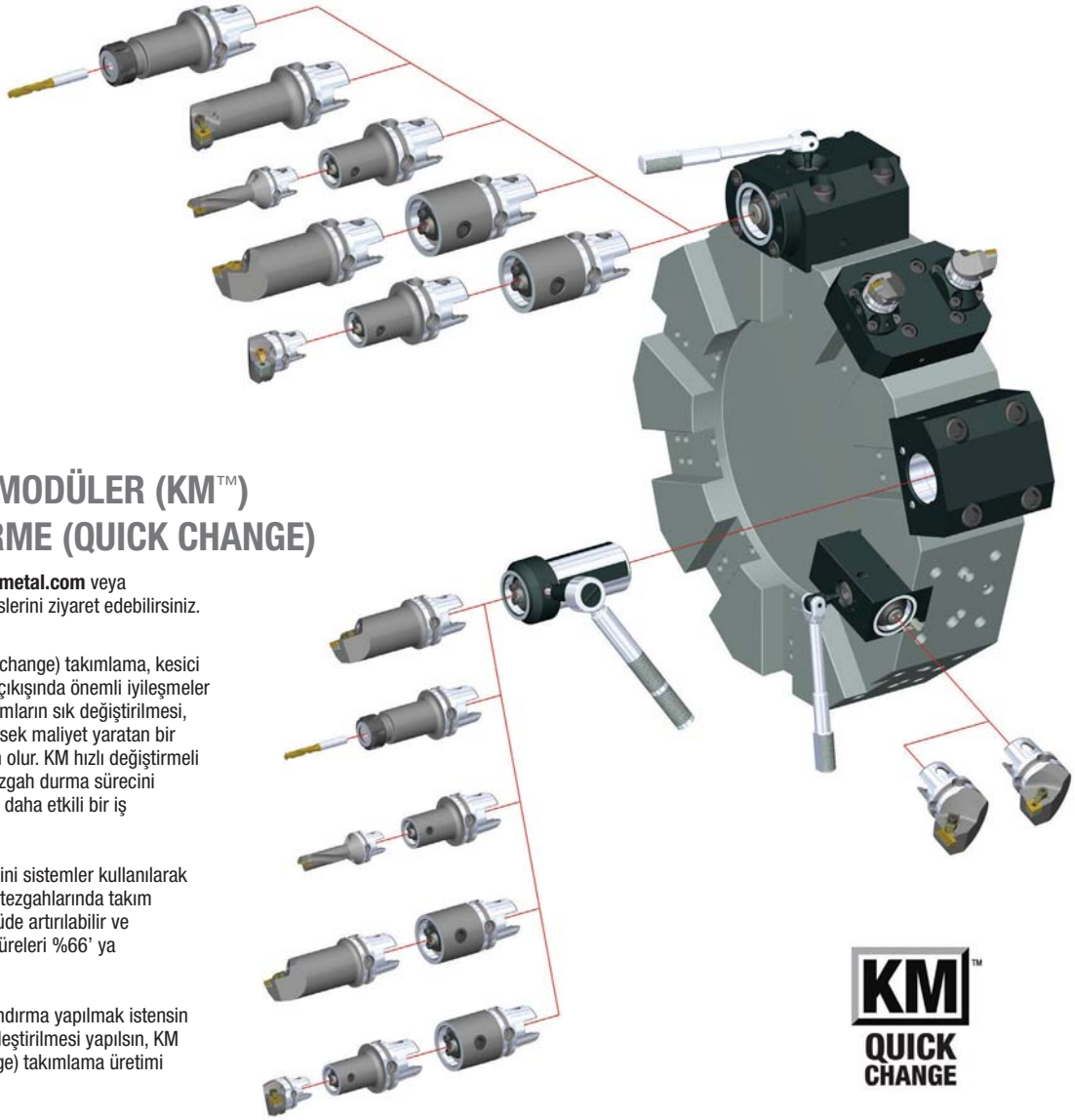
STELLRAM® 7792VX YÜKSEK İLERLEMELİ SERİ

Daha fazla bilgi için V bölümüne (Cilt iki) bakınız.

7792VX Freze serisi üstün yüzey üretimi ile yüksek ilerlemeli freze uygulamaları için tasarlanmıştır. 7792VX Frezeler, yüzey işleme, cep boşaltma, eğimli işleme, helisel interpolasyon ve dalma gibi çok sayıda uygulama için tasarlanmıştır. Bu frezeler, çelik, paslanmaz çelik, dökme demir ve yüksek ısıl dirençli alaşımlı ve alüminyum alaşımlar gibi tüm malzemeleri işleyebilir.

Takımlama sistemleri

ÖNE ÇIKAN ÜRÜNLER



KENNAMETAL MODÜLER (KM™) HIZLI DEĞİŞTİRME (QUICK CHANGE)

Daha fazla ayrıntı için, **kennametal.com** veya **kennametal.com/novo** adreslerini ziyaret edebilirsiniz.

KM™ hızlı değiştirmeli (quick-change) takımlama, kesici takım performansı ve tezgah çıkışında önemli iyileşmeler sağlamaya yardımcı olur. Takımların sık değiştirilmesi, ayarlanması ve ölçülmesi yüksek maliyet yaratan bir tezgah durma sürecine neden olur. KM hızlı değiştirmeli (quick-change) takımlama, tezgah durma sürecini kısaltarak verimliliği artıracak daha etkili bir iş süreci sağlar.

Ek olarak, KM micro ve KM mini sistemler kullanılarak otomatik ve geleneksel torna tezgahlarında takım tezgahı kapasitesi önemli ölçüde artırılabilir ve konumlandırma ile kurulum süreleri %66' ya kadar kısaltılabilir.

İster yeni bir tezgaha takımlandırma yapılmak istensin veya mevcut donanımların iyileştirilmesi yapılsın, KM hızlı değiştirmeli (quick-change) takımlama üretimi en üst düzeye çıkarabilir.

KM ürün programı, tüm uygulama gereksinimleri için seçenekler içerir ve sistem modülerliği nedeniyle masraflı özel çözümlere olan gerekliliği sınırlar.



KM4X™

Daha fazla ayrıntı için, **kennametal.com** veya **kennametal.com/novo** adreslerini ziyaret edebilirsiniz.

KM4X işmili arayüzü, zor işlenebilir malzmeler ve ağır işleme uygulamaları için tasarlanmıştır. Özellikle, büyük yapıdaki parçaların işlenmesi için uygundur. Bu dönen ve duran takım adaptörleri, rakiplerin benzer tiplerinden 3 kat daha fazla bükülme esnekliği sağlar.

- Daha yüksek bağlama kuvveti sayesinde rijit yapılandırma.
- Tasarım, önden yüklemeli işmili yapılandırmalarına olanak sağlar.
- Yüksek işmili ilerleme kapasitesi.
- Çoğu uygulamalarda kullanım için tasarlanmıştır.
- Yüksek ve düşük hızlarda ve torklarda geniş bir aralıkta kullanılır.
- HSK bağlantısı kullanan işmillerinde KM4X' e yükseltilebilir.
- Daha yüksek hızlarda konik temas sağlanır.





SÜRÜCÜLÜ TAKIMLAMA VE SABİT TAKIM BLOKLARI

Daha fazla ayrıntı için, **kennametal.com** veya **kennametal.com/novo** adreslerini ziyaret edebilirsiniz.

Mevcut CNC torna tezgahları, dönme özellikli uygulamalar için taretle monte edilmiş bağlama üniteleri ve maksimum hızlı değiştirme esnekliği için sabit takım blokları ile çok işlevselli bir çözüm sağlayıcıya dönüştürülebilinir. Frezeleme, delik delme, vida dişi açma, delik genişletme uygulamaları veya sabit uygulamalar için, Kennametal takımları ile çözümler uygulayarak tezgah kullanımı en üst düzeye çıkartılabilir. Çok yönlülük ve verimlilik sağlamak için çoklu KM™ formatında ölçüler mevcuttur.

- 0 ve 90° seçenekleri standart olarak mevcuttur.
- 12.000 RPM değerine kadar hızlar, yüksek talaş kaldırma oranları sağlar.
- Ek hız veya tork için 1: 1 ve 1: 2 dişli oranları mevcuttur.
- Seri imalat için standart yapılandırmalara sahiptir ve çoğu tarete uyacak şekilde müşteriye özel tasarlanabilir.
- Duran ve dönen uygulamalar için hızlı değiştirilebilir çözümler, tezgah etkinliğini en üst düzeye çıkarır.

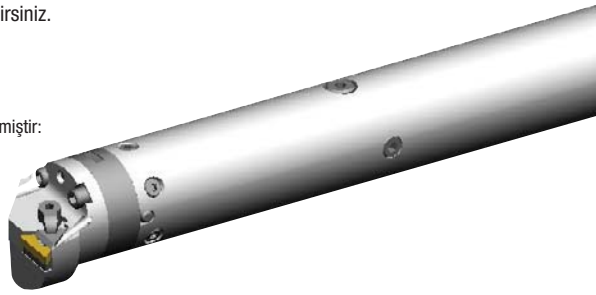
AYARLANABİLİR DELİK İŞLEME BARALARI

Daha fazla ayrıntı için, **kennametal.com** veya **kennametal.com/novo** adreslerini ziyaret edebilirsiniz.

Kennametal ayarlanabilir delik işleme baraları, uzun delik genişletme işlemlerinde verimliliği artırabilir, kavrama ve salınım titreşimi ile diğer sorunları çözebilir.

Mevcut ayarlanabilir delik işleme barası ürün programımıza yapılan bazı önemli iyileştirmeler aşağıda gösterilmiştir:

- Üretim tesisindeki gelişmiş ayarlama süreci maksimum bağlama boyunda hassas ayarlamayı sağlar.
- Ayarlanabilir çelik delik işleme baralarının nitrürlenmesi, talaş erozyonun etkilerini ortadan kaldırır.
- Ayarlanabilir delik işleme baralarında düzlüklerin ortadan kaldırılması sayesinde daha fazla kararlılık ve daha düzgün takım tutma sağlanır.
- Bağlantı flanşına kısa bir düzlüğün eklenmesi, merkez yüksekliğinde takım kullanımına olanak sağlar.
- Geliştirilmiş montaj süreci.



İnternette Kennametal

kennametal.com

EN SON ÜRÜN BİLGİSİNİ BULUNUZ.

Uygulama şekliniz ister tornalama, frezeleme ister delme ve delik işleme olsun, Kennametal marka yüksek performanslı takımlamaya ihtiyacınız olacaktır. Çok çeşitli uygulamalar için standart ve müşteri odaklı özel çözümler sunuyoruz.

En güncel kampanyalarımız ve kataloglarımızla ilgili bilgiye bakınız.



Kennametal in internetten sipariş verilebilen web sitesinin bütün işlevlerindan faydalanmak üzere Konnect' e kaydolun.

BİZE ULAŞIN

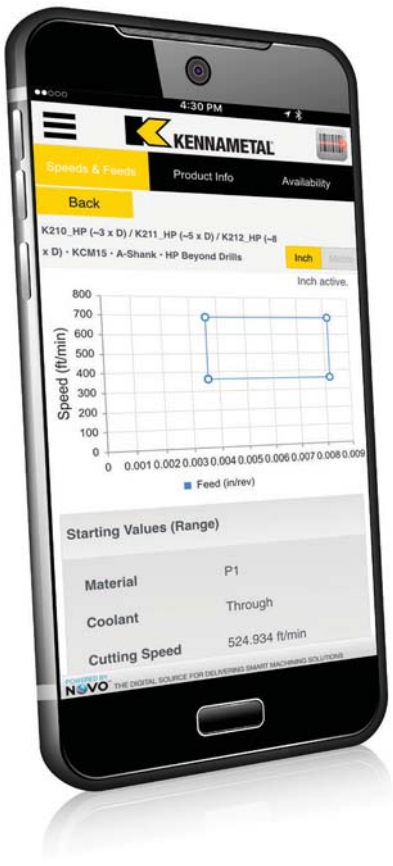
Müşterilerimiz bizim için önemlidir. Size sektördeki en iyi müşteri hizmetini sunmak istiyoruz. Eleştiri veya sorunlarınızı lütfen bize gönderin. Tüm sorulara 24 saat içinde yanıt vermeye çalışıyoruz.

KENDİ BÖLGENİZDE YEREL BİR YETKİLİ KENNAMETAL SATICI VE DAĞITIMCI BAYİSİ BULUNUZ.

Kennametal, küresel olarak dünya standartlarında ürün ve hizmetler sunmaktadır. Satıcı ve dağıtımcı bayilerimiz bizi bilirler ve daha da önemlisi sizi tanırlar. Kennametal' in küresel gücünden sektörünüzde, bölgenizde ve işinizde sizin için nasıl yarar sağlanacağını sektördeki herkesten daha iyi bilirler.

Mobil uygulama

Kennametal mobil uygulaması, iPhone® ve Android™ cihazlardan ürün bilgisine, hesaplayıcılara ve daha fazlasına erişimi kolaylaştırır.



ÖZELLİKLER

Herhangi bir Kennametal takım paketi barkodu taranarak veya bir ürün katalog numarası aranarak eksiksiz ürün bilgisine erişebilinir.

Ürün bilgileri arasında takım resmi, ölçüler, kaliteler ve üründe öne çıkan unsurlar vardır.

Dünyanın farklı yerlerindeki ürün temin edilebilirliğini görebilirsiniz.

Tüm metal işleme ürünleri için inç ve metrik ölçülerde hız ile ilerleme bilgisini alabilirsiniz.

Çok sık karşılaşılan işleme ile ilgili sorular için yararlı çözümler içeren teknik önemli bilgiye erişilebilir.

Müşteri destek birimi ile uygulama üzerinden doğrudan iletişim kurulabilir.

İŞLEME HESAPLAYICILAR

Frezeleme ve delik delme uygulamaları ile ilgili bilgi görüntülenebilir.

İnç ve metrik değerler hesaplanır.

SİPARİŞ VERME

Kişisel bağlantı kimlik bilgisi kullanılarak oturum açıp satın alma işlemine başlanabilir.

NEREDE BULUNUR

Ücretsiz uygulama iTunes® veya Google Play™ mağazalarından hemen indirilebilir.

ANDROID APP ON Google play

Available on the App Store

Hizmet ve Destek

Müşteri uygulama desteği (CAS)

En zorlu metal işleme sorunlarınıza, hızlı ve güvenilir yanıtlar alın

Müşteri uygulama desteği (CAS) ekibimiz, takımlama uygulaması çözümleri ve sorun çözümleme alanında metal işleme endüstrisinin lider yardım masası kaynağıdır.

Kanıtlanmış metal işleme uzmanlığına kolay erişim!

Kennametal Müşteri uygulama mühendisleri, dünyanın dört bir yanındaki müşteri ve mühendislik gruplarına, tüm Kennametal takımlarını kapsayan ürün programı için uzmanlık içeren takım seçimi ve uygulama önerileriyle yardımcı olur.

MÜKEMMEL HİZMET DÜZEYİ	Hızlı telefon yanıtı. Hızlı teknik çözümler. Etkin durum yönetimi.
HİZMETLER	İşletim parametreleri. En uygun duruma getirilmiş iş süreci. Donanım desteği. Takımlama seçimi. Sorun giderme.
SINIFININ EN İYİSİ DESTEK TAKIMLARI VE TEKNOLOJİ	Malzeme veri tabanı. Uygulama hesaplayıcıları. Takımlama performansı uzmanları.



Menşe ülke	Dil	Telefon	E-posta
Avustralya	İngilizce	1800 666 667	ap-kmt.techsupport@kennametal.com
Avusturya	Almanca	0800 202873	eu.techsupport@kennametal.com
Belçika	İngilizce/Fransızca	0800 80850	eu.techsupport@kennametal.com
Çin	Çince	400 889 2238	k-cn.techsupport@kennametal.com
Danimarka	İngilizce	808 89298	na.techsupport@kennametal.com
Finlandiya	İngilizce	0800 919412	na.techsupport@kennametal.com
Fransa	Fransızca	080 5540 367	eu.techsupport@kennametal.com
Almanya	Almanca	0800 0006651	eu.techsupport@kennametal.com
Hindistan	İngilizce	1 800 103 5227	in.techsupport@kennametal.com
İsrail	İngilizce	1809 449889	na.techsupport@kennametal.com
İtalya	İtalyanca	800 916561	eu.techsupport@kennametal.com
Japonya	İngilizce	03 3820 2855	ap-kmt.techsupport@kennametal.com
Kore (Güney)	İngilizce	+82 2 2100 6100	ap-kmt.techsupport@kennametal.com
Malezya	İngilizce	1800 812 990	ap-kmt.techsupport@kennametal.com
Meksika	İspanyolca	1800 253 0758	na.techsupport@kennametal.com
Hollanda	İngilizce	0800 0201 130	eu.techsupport@kennametal.com
Yeni Zelanda	İngilizce	0800 450 941	ap-kmt.techsupport@kennametal.com
Norveç	İngilizce	800 10080	na.techsupport@kennametal.com
Polonya	Lehçe	0080 04411887	eu.techsupport@kennametal.com
Rusya (sabit hat)	Rusça	8800 5556394	eu.techsupport@kennametal.com
Rusya (cep telefonu)	Rusça	+7 8005556394	eu.techsupport@kennametal.com
Singapur	İngilizce	1800 6221031	ap-kmt.techsupport@kennametal.com
Güney Afrika	İngilizce	0800 981643	na.techsupport@kennametal.com
İsveç	İngilizce	020799246	na.techsupport@kennametal.com
Tayvan	İngilizce	0800 666 197	ap-kmt.techsupport@kennametal.com
Tayland	İngilizce	1800 4417820	ap-kmt.techsupport@kennametal.com
Birleşik Krallık	İngilizce	0800 032 8339	na.techsupport@kennametal.com
Ukrayna	Rusça	0800502664	eu.techsupport@kennametal.com
ABD	İngilizce	800 835 3668	na.techsupport@kennametal.com

Gösterilen numaralar sadece listelenen ilgili ülkede hizmet vermektedir.

NOVO NASIL ARAYACAĞINI BİLİR

NOVO™, nun sunduğu Öner ve Seç işlevleriyle geliştirilmiş bir takım aranıyor ve böylelikle zaman ve maliyet tasarrufu sağlanıyor.

ÖNER

Kesici takım önerileri sunmak için kural tabanlı bir yaklaşım kullanır:

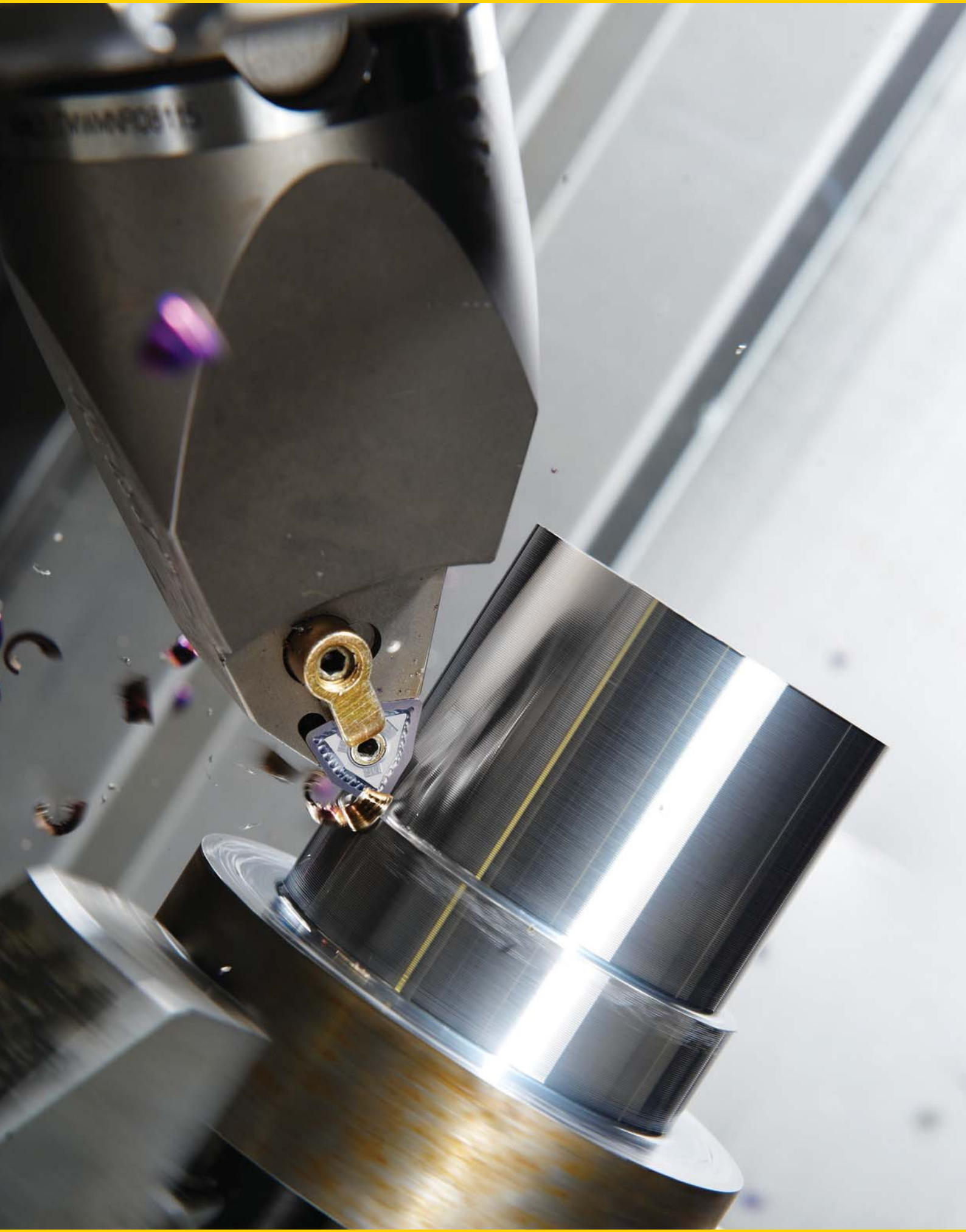
- İşleme özellikli tanımlar (yüzey frezeleme, kanal frezeleme, kör delik, vb.)
- Gerekli sınırlamaları uygular (geometri, malzeme, tolerans, vb.)
- İşleme sıralamasını düzenler (tek veya çok adımlı işlemler, kaba işleme ardından hassas işleme, vb.)
- Üst düzey sonuç sağlar

SEÇ

Bir hiyerarşi veya parametrik arama yoluyla, bir ağaç yapısından kesici takımları seçme yöntemidir:

- Hangi ürünü aradığınızı biliyorsanız, yalnızca katalog numarası ya da ürün açıklamasıyla hızlı bir arama gerçekleştirilebilir.
- Akıllı filtreler potansiyel takımlama çözümlerinin sayısını önemli ölçüde azaltır.
- Takım seçildikten sonra, NOVO ayrıca kesme ve uyarlanabilir çözümünüz ile uyumlu takım seçenekleri sunar.

NOVO tezgahlarınızda işinize uygun takımlara doğru sıralamayla sahip olabilmenizi sağlar. Her işi hızlandırır ve sorunsuz uygulama ile her vardiyadan en yüksek verimliliğin elde edilebilmesini sağlar.
kennametal.com/novo



Tornalama

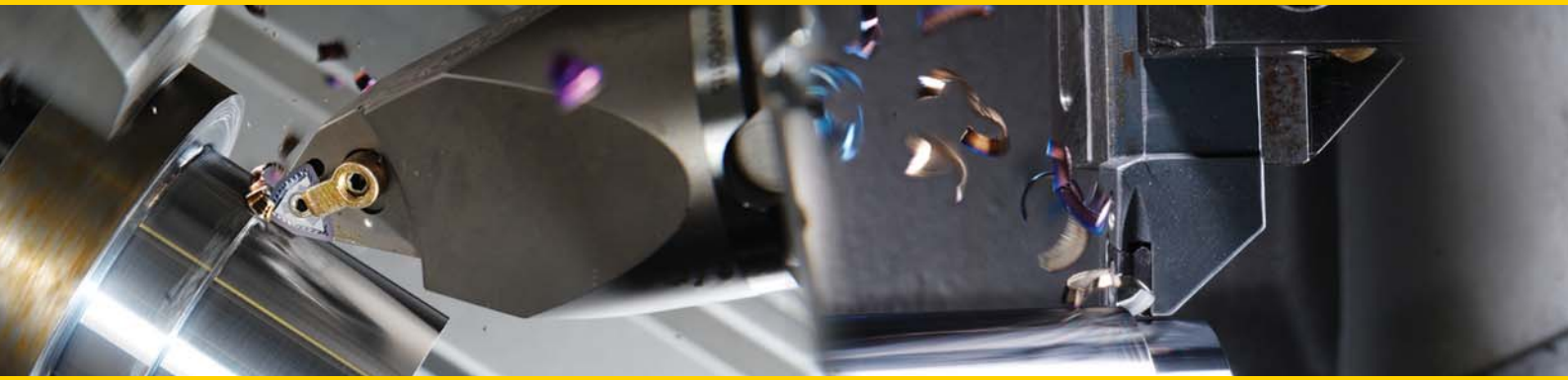
Tornalamaya giriş.....A2–A3

ISO Tornalama B1–B387

Kanal açma ve Kesme-Dilimleme C1–C179

Vida dişi açma D1–D110

Uygulama özellikli E1–E65



Tornalama ürünleri

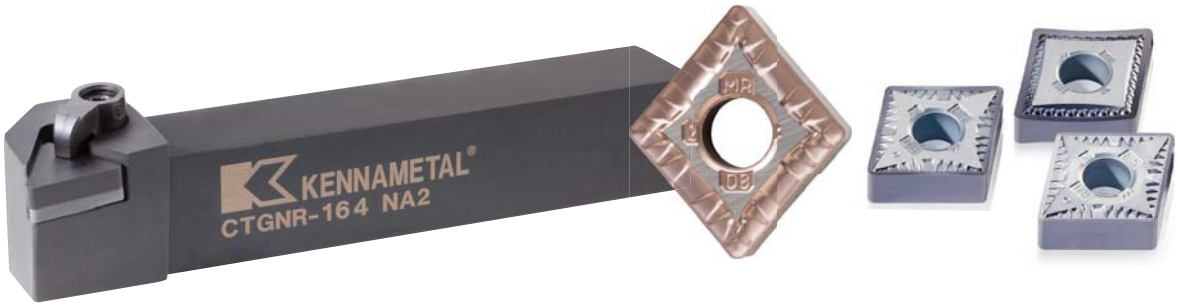
En son metal kesme yeniliklerimiz, daha yüksek verimlilik, daha uzun takım ömrü ve çok yönlülüğe dayalı uygulama artışı sağlamak amacıyla tasarlanmıştır.

En yeni Kennametal ürünleri ve hizmetleri hakkında daha fazla bilgi almak için Kennametal temsilcinize veya yetkili Kennametal bayisine başvurabilir veya **kennametal.com** adresini ziyaret edebilirsiniz.

ISO TORNALAMA

Daha fazla bilgi için B bölümüne bakınız.

- Negatif temel şekilli kesici uçlar.
- Negatif temel şekilli kesici uçlar için takım tutucular, delik işleme baraları ve via bağlamalı kafalar.
- Pozitif temel şekilli kesici uçlar.
- Pozitif temel şekilli kesici uçlar için takım tutucular, delik işleme baraları ve vida bağlamalı kafalar.
- İşleme için gelişmiş malzeme içerikli kesici uçlar:
  - Dökme demir
  - Sertleştirilmiş çelikler
  - Isıl dirençli alaşımlar
- PCD kesici uçlar
- Gelişmiş malzeme içerikli kesici uçlar ile kullanılan takım tutucular, delik işleme baraları ve vidalı delik işleme kafaları.
- Ayarlanabilir delik işleme baraları.



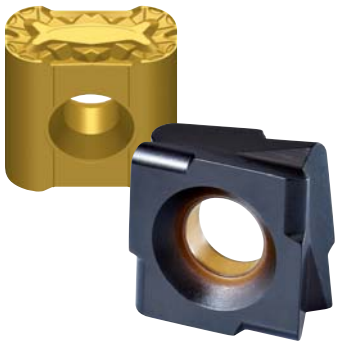


VİDA DİŞİ AÇMA, KANAL AÇMA VE KESME-DİLİMLEME (TG ve C)

Daha fazla bilgi için bölüm C ve D' ye bakınız.

- Beyond™ Evolution™ Kanal açma, kesme ve dilimleme, yandan tornalama.
- A4™ Kanal açma ve yandan tornalama.
- Top Notch™ Kanal açma
- Top Notch Vida dişi açma
- Yatay konumda vida dişi açma





UYGULAMA ÖZELLİKLİ

Daha fazla bilgi için E bölümüne bakınız.

- Fix-Perfect™ Tornalama
- Top Notch Profil işleme
- Demiryolu tekerlekleri ve tekerlek donanımlarını işleme için takımlar
- K-Lock™





ISO Tornalama

Kennametal Kesici uç seçme sistemi **B2–B21**

Kennametal Kaliteler ve kalite tanımlamaları/ Uygulama alanları **B22–B29**

Talaş kontrol geometrileri, İlerleme oranları, Kesme ve dilimleme, Uygulama alanları **B30–B35**

Takım tutuculara, Delik işleme baralarına ve Kartuşlara genel bakış; ISO Kodları **B36–B45**

Kenloc Negatif temel şekilli kesici uçlar, Takım tutucular,
Delik işleme baraları, Kartuşlar ve Cıvata başlı kafalar **B46–B165**

Kendex Pozitif temel şekilli kesici uçlar, Takım tutucular,
Delik işleme baraları, Kartuşlar ve Cıvata başlı kafalar **B166–B174**

Vida bağlamalı pozitif temel şekilli kesici uçlar, Takım tutucular,
Delik işleme baraları, Kartuşlar ve Cıvata başlı kafalar **B175–B273**

Gelişmiş malzemeler içeren kesici uçlar, Takım tutucular,
Delik işleme baraları, Kartuşlar ve Cıvata başlı kafalar **B274–B378**

Dökme demir işleme için gelişmiş malzemeler B278–B300

Sert tornalama için gelişmiş malzemeler B302–B324

Yüksek ısıda işleme için gelişmiş malzemeler B326–B337

PCD (Çok kristalli elmas) Kesici uçlar B338–B352

Takım tutucular, Delik işleme baraları, Kartuşlar ve Cıvata başlı kafalars B353–B378

Ayarlanabilir delik işleme baraları **B380–B387**

Mobil uygulamalar

Kennametal mobil uygulaması, iPhone® ve Android™ gibi her iki işlemciden birine sahip cihazlarda ürün bilgisine kolay erişim sağlar. Burada özellikle bir dizi önemli işlevleri vurguladık...

Bunu kapsayan bir uygulama var.

KESME HIZLARI VE İLERLEMELER

Metal işleme takımları için kesme hızları ve ilerlemeleri ile ilgili bilgiye erişim.

ÜRÜN BULUNABİLİRLİĞİ

Ürünlerin global kullanılabilirliğini kontrol edilir. Konnect giriş bilgilerinizi sağlayarak mevcut miktarlar görüntülenir.

HESAPLAYICILAR

Frezeleme ve delme uygulamaları için işleme hesaplayıcılarımızdan yararlanılır.

Kesici uç paketindeki barkodun taranması ile takım ömrü, iş süreci ve talaş kontrolüne yönelik en verimli kesme değerlerine ve koşullarına erişim olanağı sağlanır.



NOT: Uygulama şu anda sadece İngilizce dil sürümünde bulunmaktadır. Bu uygulamanın farklı dillere çevrilerek gelecekteki sürümler ile sunulması planlanmıştır.

Google play | Available on the App Store

ISO Tornalama uçları, Takım tutucular ve Delik işleme baraları

Modern CNC Tezgahları ve esnek üretim tesisleri, çok yönlülüğe sahip takımlar gerektirir. Kennametal yüksek performanslı kesici uçlar, takım tutucular ve delik işleme baraları, herhangi bir tornalama uygulamasını gerçekleştirmek üzere tasarlanmıştır. İster çelik isterse Titanyum işlemek istendiğinde veya hafif hassas son işlemeli veya kaba işlemeli uygulamalar gerçekleştirmede gereksinim duyulan takımlama çözümleri sunuyoruz.

Özellikler ve Avantajlar

Beyond™ Drive™ Kesici uçlar

- Artan üretkenlik için tasarlandı.
- Kaplama sonrası işlem gerilimini azaltır, kaplama yapışkanlığını iyileştirir.
- Mükemmel tokluk ve aşınma direnci.
- Daha iyi aşınma algılaması.

Beyond™ PVD Kaliteleri

KCU10™
- Üstün aşınma direnci ve daha yüksek ısılarda son derece yüksek kesme hızları.
- Paslanmaz çelikler ve ısı dirençli alaşımlar için ideal.
- İyileştirilmiş kesme derinliği çentik direnci.
- Hassas son işlemeden orta işlemeye kadar olan uygulamalarda kullanılır.

KCU25™
- Üstün kenar tokluğu.
- Mükemmel aşınma direnci.
- Orta işlemeden kaba işlemeye kadar olan uygulamalarda kullanılır.



Malzemeye göre Kennametal tornalama çözümleri

P	Çelik	Karbür veya sermet kesici uçlar
M	Paslanmaz çelik	Karbür kesici uçlar
K	Dökme demir	Karbür, seramik veya PcBN kesici uçlar
N	Demir dışı metaller	Karbür veya PCD kesici uçlar
S	Isıl dirençli alaşımlar	Karbür, seramik, PcBN veya PCD kesici uçlar
H	Sertleştirilmiş malzemeler	Seramik veya PcBN kesici uçlar

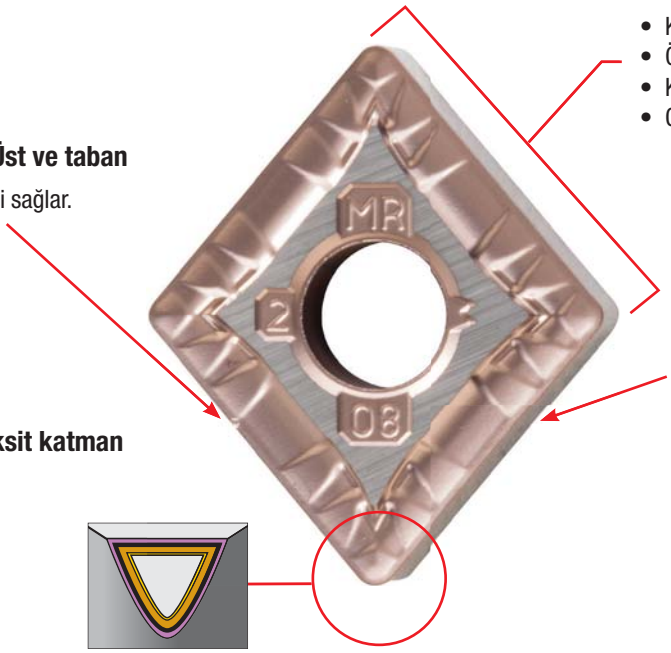
Beyond™ Drive™ • Teknoloji ayrıntıları

Kaplama sonrası işlem

- Kenar tokluğunu iyileştirir.
- Öngörülebilir uzun takım ömrü.
- Kesme derinliği çentiklerini azaltır.
- Geniş uygulama alanı.

Ön kaplama taşlaması; Üst ve taban

- Güvenilirlikli oturma yüzeyi sağlar.



Mikro parlatılmış kesme kenarları

- Kenar tokluğunu iyileştirir.
- Kuvvetleri, sürtünmeyi ve iş parçası yapışmasını azaltmak için düz hassas dış yüzey sağlar.

İnce taneli Alüminyumoksit katman

- Yüksek hızlarda kaplama bütünlüğü sağlar.
- Yüksek kesme ısılarında daha yüksek üretkenlik ve güvenilirlik.

TiN/MT-TiCN/TiCN/Al_2O_3/TiOCN

Takım tutucular, Delik işleme baraları ve Kartuşlar



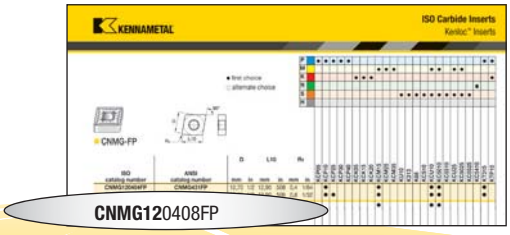






Katalog numaraları nasıl kullanılır ?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



C — Kesici uç şekli

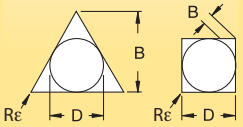
H	Altıgen	120°
O	Sekizgen	135°
P	Beşgen	108°
R	Yuvarlak	—
S	Kare	90°
T	Üçgen	60°
C D E M V	Eşkenar dörtgen	80° 55° 75° 86° 35°
W	Üç kenarlı	80° büyütülmüş köşe açılarla
L	Dikdörtgen	90°
A B N/K	Paralelkenar	85° 82° 55°

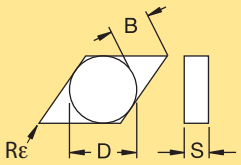
N — Kesici uç boşluk açısı

A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	Açıklama gerektiren diğer boşluk açıları için gösterilir.

M — Tolerans sınıfı

Toleranslar kenar hazırlama ve kaplama öncesi için uygulanır.





D = Kesici ucun yol aldığı dairenin teorik çapı
S = Kalınlık
B = Aşağıdaki şekillere bakınız

G — Kesici uç özellikleri

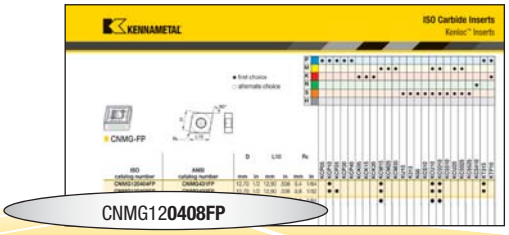
N	
R	
F	
A	
M	
G	
W	
T	
Q	
U	
B	
H	
C	
J	
X	Özel tasarım

12 — Ölçü

"D" mm	İnç kesme kenarı uzunluğu "L10" için kod						
	C	D	R	S	T	V	W
3,97	S4	04	03	03	06	—	—
4,76	04	05	04	04	08	08	S3
5,56	05	06	05	05	09	09	03
6,00	—	—	06	—	—	—	—
6,35	06	07	06	06	11	11	04
7,94	08	09	07	07	13	13	05
8,00	—	—	08	—	—	—	—
9,52	09	11	09	09	16	16	06
10,00	—	—	10	—	—	—	—
11,11	11	13	11	11	19	19	07
12,00	—	—	12	—	—	—	—
12,70	12	15	12	12	22	22	08
14,29	14	17	14	14	24	24	09
15,88	16	19	15	15	27	27	10
16,00	—	—	16	—	—	—	—
17,46	17	21	17	17	30	30	11
19,05	19	23	19	19	33	33	13
20,00	—	—	20	—	—	—	—
22,22	22	27	22	22	38	38	15
25,00	—	—	25	—	—	—	—
25,40	25	31	25	25	44	44	17
31,75	32	38	31	31	54	54	21
32,00	—	—	32	—	—	—	—

Tolerans sınıfı	Tolerans "D" de	Tolerans "B" de	Tolerans "S" de
C	±0,025	±0,013	±0,025
H	±0,013	±0,013	±0,025
E	±0,025	±0,025	±0,025
G	±0,025	±0,025	±0,013
M	Sonraki sayfadaki tablolara bakınız.		±0,013
U	Sonraki sayfadaki tablolara bakınız.		±0,013

Bu kullanımı kolay rehbere başvurarak ihtiyaçlarınızı karşılayacak doğru ürünü tanımlayabilirsiniz.



04	08			FP
Kalınlık S	Köşe radyüsu "Rε"	Kesici uç yönü *(isteğe bağlı)*	Kesme kenarı *(isteğe bağlı)*	Talaş kırıcı *(isteğe bağlı)*

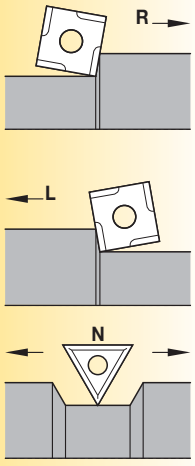
Simge	Kalınlık
mm	mm
—	0,79
T0	1,00
01	1,59
T1	1,98
02	2,38
03	3,18
T3	3,97
04	4,76
05	5,56
06	6,35
07	7,94
9	9,52
11	11,11
12	12,70

Simge	Köşe radyüsü	
mm	mm	
X0	0,04	
01	0,1	
02	0,2	
04	0,4	
08	0,8	
12	1,2	
16	1,6	
20	2,0	
24	2,4	
28	2,8	
32	3,2	
00		Yuvarlak kesici uç
M0		
—		

R = Sağ yönlü

L = Sol yönlü

N = Nötr



F Keskin

E Yuvarlatılmış

T Pah kırılmış

S Pah Kırılmış ve yuvarlatılmış

K Çifte pah kırılmış

P Çifte pah kırılmış ve yuvarlatılmış

F = Keskin
FF = Son derece hassas son işleme
FN = Hassas son işleme negatif
MN = Orta işleme negatif
MR = Orta kaba işleme
RN = Kaba İşleme Negatif
UN = Genel kullanım amaçlı orta
FP = Hassas son işleme pozitif
MP = Orta pozitif
RP = Kaba işleme pozitif
RM = Kaba işleme orta
RH = Kaba işleme ağır
FW = Hassas son silici uç
MW = Orta silici uç
FS = Hassas son işleme keskin
MS = Orta keskin
RW = Kaba işleme silici
HP = Yüksek pozitif
UP = Genel kullanım amaçlı pozitif
K = Hafif ilerleme talaş kontrolü
UF = Son derece hassas son işleme
LF = Hafif hassas son işleme
MF = Orta hassas son işleme
E = Sadece honlama
T = Negatif zırh
S = Negatif zırh ek honlama
MP-K = Orta pozitif
MG-P = Orta pozitif

	± "D" de tolerans				± "B" de tolerans				
	M Toleransı sınıfı			U Toleransı sınıfı	M Toleransı sınıfı			U Toleransı sınıfı	
"D"	Şekiller S, T, C, R ve W	Şekil D	Şekil V	Şekiller S, T ve C	"D"	Şekiller S, T, C, R ve W	Şekil D	Şekil V	Şekiller S, T ve C
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
3,97	0,05	–	–	–	3,97	0,08	–	–	–
4,76	0,05	–	–	0,08	4,76	0,08	–	–	0,13
5,56	0,05	0,05	0,05	0,08	5,56	0,08	0,11	–	0,13
6,35	0,05	0,05	0,05	0,08	6,35	0,08	0,11	–	0,13
7,94	0,05	0,05	0,05	0,08	7,94	0,08	0,11	–	0,13
9,52	0,05	0,05	0,05	0,08	9,52	0,08	0,11	0,18	0,13
11,11	0,08	0,08	0,08	0,13	11,11	0,13	0,15	–	–
12,70	0,08	0,08	0,08	0,13	12,70	0,13	0,15	0,25	0,20
14,29	0,08	0,08	0,08	0,13	14,29	0,13	0,15	–	–
15,88	0,10	0,10	0,10	0,18	15,88	0,15	0,18	–	0,27
17,46	0,10	0,10	0,10	0,18	17,46	0,15	0,18	–	0,27
19,05	0,10	0,10	0,10	0,18	19,05	0,15	0,18	–	0,27
22,22	0,13	–	–	0,25	22,22	0,15	–	–	0,38
25,40	0,13	–	–	0,25	25,40	0,18	–	–	0,38
31,75	0,15	–	–	0,25	31,75	0,20	–	–	0,38

Kaliteler, geometriler ve uygulama rehberleri, metal kesme isteklerinize yönelik en ideal çözümler sunan sistemler bütünüdür. Özel iş parçası malzemeleri ve uygulamalarınızda, hangi Kennametal talaş kontrollü kesici takımının uygun olacağına karar vermek çok kolaydır!

Kalite • Beyond™ • Beyond™ Drive™

K	C	P	M	25	B
Marka	Kesici uç malzemesi	Birincil iş parçası malzemesi *(ISO 513)*	İkincil iş parçası malzemesi *(isteğe bağlı)*	Uygulama aralığı	Gelecekteki güncelleştirmeler *(isteğe bağlı)*
K = Kennametal	**Boşluk** = Karbür, kaplamasız **C** = Karbür, kaplamalı **T** = Sermet **Y** = Seramik **D** = PCD **B** = PcBN	**P** Çelik **M** Paslanmaz çelik **K** Dökme demir **N** Demir dışı metaller **S** Isıl dirençli alaşımlar **H** Sertleştirilmiş malzemeler **U** Genel kullanım amaçlı işleme		**Çok sert** **5** Hassas en son işleme **10** Hassas isleme **15 20** Orta işlemeden kaba işlemeye **25 30 35** Kaba işleme **40 45 50** Çok ağır kaba işleme **Çok tok**	**B** = Beyond™ Drive™ **C** = 3. Nesil gibi...

NOT: Uygulama aralığı, PcBN kaliteyi kapsamamaktadır.

Pozitif kesici uçlar



Vida bağlamalı kesici uçlar

- Vida bağlamalı kesici uçları, tüm malzemelerin tornalanmasında iç çapın (delik) tornalanması için ve küçük boydan orta boya kadar olan torna tezgahlarında dış çapın tornalanması için ilk tercih edilendir.
- Hem kalıplanmış hem de çevresel taşlanmış düz uçlu ve talaş kontrollü geometriler mevcut. Tüm iş parçası malzemeleri için uygun.

Şu sayfalara bakınız:
Karbür: B175–B273
Gelişmiş malzemeler: B284–B351



Kendex™ ve V tabanlı kesici uçlar

- Kendex pozitif ve V tabanlı kesici uçlar, orta boydan büyük boya kadar olan torna tezgahlarında ısıl dirençli alaşımları verimli işleme için ilk tercih edilendir.
- Çevresel taşlanmış düz uçlu geometriler olarak bulunur.

Şu sayfalara bakınız:
Karbür: B166–B168
Gelişmiş malzemeler: B284–B351



Top Notch™ Profil işleme uçları

- Yüksek üretim profil işleme için ilk tercih.
- Eşsiz kesici uç bağlama tasarımı mükemmel sürdürülebilir sağlamlık sağlar.
- Hem kalıplanmış hem de çevresel taşlanmış talaş kontrollü geometriler bulunur. Tüm iş parçası malzemeleri için uygun.

Ürün listesi için E20–E43 sayfalarına bakınız.



K-Lock™ Kesici uçlar

- K-Lock kesici uçlar derin kanal açma ve profil işleme için idealdir.
- Eşsiz kesici uç bağlama sistemi engelsiz talaş akışına olanak sağlar.
- Kalıplanmış ve çevresel taşlanmış olarak bulunur.

Ürün listesi için E62–E65 sayfasına bakınız.

Negatif kesici uçlar



Kenloc™ Kesici uçlar

- Kenloc kesici, uçlar orta boydan büyük boya kadar olan torna tezgahlarında tüm malzemeleri genel işleme için ilk tercih edilendir.
- Kenloc kesici uçlar yüksek talaş kaldırma oranları için çok ekonomiktir.
- Hem kalıplanmış hem de çevresel taşlanmış düz uçlu ve talaş kontrollü geometriler mevcut. Tüm iş parçası malzemeleri için uygun.

Şu sayfalara bakınız:
Karbür: B46–B165
Gelişmiş malzemeler: B284–B351



Kendex Kesici uçlar

- Seramik Kendex kesici uçlar ısıl dirençli alaşımların verimli işlenmesi için mükemmel bir seçimdir.
- Kendex negatif kesme sırtlı kesici uçlar ayrıca sertleştirilmiş malzemelerin ve dökme demirlerin işlenmesinde önerilir.
- Kalıplanmış ve çevresel taşlanmış düz uçlu geometriler olarak bulunur.
- Geniş kapsamlı standart takım tutucular seçme olanağı sunulmaktadır.

Ürün listesi için B284–B351 sayfalarına bakınız.



Top Notch Tornalama uçları

- Dökme demir parçaların yüksek hızda kaba ve hassas son işlenmesi için seramik Top Notch Tornalama uçları ilk tercih edilendir.
- Kalıplanmış ve çevresel taşlanmış düz uçlu geometriler olarak bulunur.

Ürün listesi için B284–B351 sayfalarına bakınız.



Fix-Perfect™ Kesici uçlar

- Teğetsel tasarım ve rijit bağlama sistemleri.

Ürün listesi için E2–E18 sayfalarına bakınız.



Demir yollarında kullanılan kesici uçlar

- Demiryolu tekerleklerinin ve akslarının işlenmesi için tasarlanmıştır.

Ürün listesi için E44–E61 sayfalarına bakınız.

Kesici uç seçme sistemi

Nasıl kullanılır

Kennametal üç adımda kesici uç seçme sistemi, en etkin takımı seçimini 1, 2, 3 uygulaması ile kolaylaştırır.
Seçme doğruluğunu en uygun şartlarda sağlamak için takım önerileri altı iş parçası grubunu esas almaktadır.

Örnek:
Altı iş parçası malzeme grubu

1. Adım • Kesici uç geometrisi seçimi

Verilen:	Kesme derinliği = 1mm ilerleme = 0,4mm
Bilinmeyen:	**Kesici uç geometrisi**
Çözüm:	-MN

2. Adım • Kalite seçimi

Verilen:	Kesme koşulları: Hafif bir şekilde darbeli kesme
Geometri:	-MN
Bilinmeyen:	**Kalite**
Çözüm:	KCP25B

3. Adım • Kesme hızını seçme

Verilen:	Kalite KCP25B Kesme koşulları Malzeme CK15
Bilinmeyen:	**Kesme hızı**
Çözüm:	280 m/dk.

Ürün seçmede yardım gerekiyor mu?
Ek bilgi, Kennametal Müşteri uygulama destekekibi ile iletişime geçerek elde edilebilir.
Ülkenizin telefon numarası için kennametal.com adresine gidiniz.

Adım 1 • Kesici uç geometrisi seçimi

Negatif kesici uçlar



-RN

-RP*
(pozitif)

Kaba
işleme

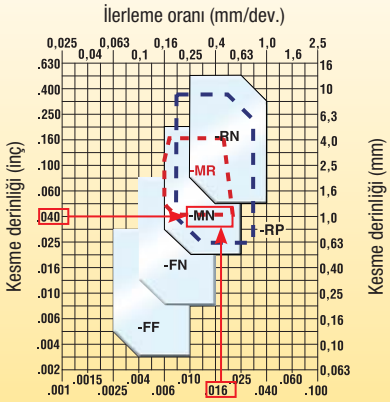


-FN
Hassas son
işleme

-MN
Orta
işleme



- FF
Hassas son işleme



*-RP – Yüksek dayanıklılıkta malzemeler için ek geometri

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

beyond beyond DRIVE

Adım 2 • Kalite seçimi

Kesme şartı	-FF	-FN	-MN	-RN	-RP	-11	-UF	-LF	-FP	-MF	-MP
Ağır darbeli kesme	KCP10B/ KCP10	KCP25B/ KCP25	KCP30B/ KCP30	KCP30B/ KCP30/ KCP40B/ KCP40	KCP30B/ KCP30/ KCP40B/ KCP40	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCU25/ KCP25B/ KCP25	KCP40B/ KCP40B	KCP40B/ KCP40B
Hafif darbeli kesme	KCP10B/ KCP10	KCP25B/ KCP25	KCP25B/ KCP25	KCP30B/ KCP30/ KCP40B/ KCP40	KCP30B/ KCP30/ KCP40B/ KCP40	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25
Değişkenlik gösteren kesme derinliği, döküm veya dövme kabuğu	KCP05B/ KCP05/ KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP30B/ KCP30/ KCP40B/ KCP40	KCP30B/ KCP30/ KCP40B/ KCP40	KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10

Adım 3 • Kesme hızı seçimi

Düşük karbon (<0,3% C) ve kolay işlenebilir çelik (otomat çeliği) — Hız; m/dk. (Yüzey ilerleme/dk.) — Başlangıç koşulları

Malzeme grubu	Kalite	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/dk.	Yüzey ilerleme/dk.
P1	KCP05B/KCP05/KTP10										435	1450
	KCP10B/KCP10										395	1320
	KCP25B/KCP25										275	925
	KCP30B/KCP30/KCP40B/KCP40										210	700

Yeni Beyond™ Malzeme grubu seçme rehberi:

Hız önerilerini en uygun duruma getirmek için, altı iş parçası malzemelerinin her birine Beyond malzeme alt grupları eklenmiştir.

Malzeme	Malzeme grubu ISO kodu	Malzeme alt gruplarının sayısı
Çelik	P	1–6
Paslanmaz çelik	M	1–3
Dökme demir	K	1–3
Demir dışı malzemeler	N	1–8
Yüksek ısıya dayanıklı alaşımlar	S	1–4
Sertleştirilmiş malzemeler	H	1

1. Adım • Kesici uç geometrisi seçimi

Negatif silici uçlar



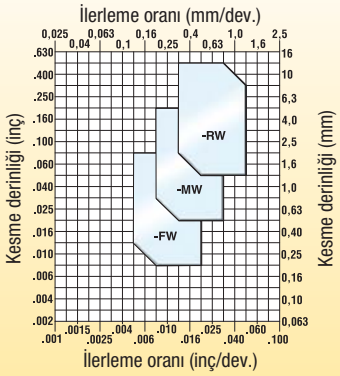
-RW
Kaba
silici uç



-MW
Orta
silici uç



-FW
Hassas son
silici uç



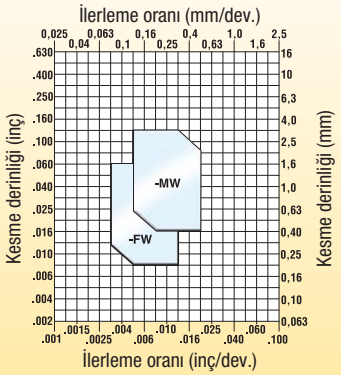
Pozitif silici uçlar



-MW
Orta
silici uç



-FW
Hassas son
silici uç



2. Adım • Kalite seçimi

Kesme şartı	Negatif kesici uç geometrisi -FW	-MW	-RW	Pozitif kesici uç geometrisi -FW	-MW
Aşırı derecede ağır darbeli kesme	–	–	KCP25B/KCP25	–	KCP25B/KCP25
Hafif bir şekilde darbeli kesme	KCP10B/KCP10	KCP25B/KCP25	KCP25B/KCP25	KCP25B/KCP25	KCP25B/KCP25
Değişken kesme derinliği, yüzey (döküm) kabuğu veya dövme kabuk	KCP05B/KCP05/ KT315	KCP10B/KCP10	KCP10B/KCP10	KCP10B/KCP10/ KCK20B/KCK20	KCP10B/KCP10
Düz hassas kesme, ön tornalanmış yüzey	KCP05B/KCP05/ KT315	KCP05B/KCP05	KCP10B/KCP10	KCP10B/KCP10/ KT315	KT315

1. Adım • Kesici uç geometrisi seçimi

Negatif kesici uçlar



-RN



-RP*
(pozitif)



-MR
Orta
Kaba işleme



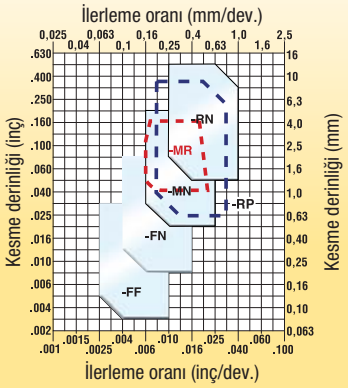
-MN
Orta
işleme



-FN
Hassas
son işleme



-FF
Son derece hassas
son işleme



* -RP – Yüksek dayanımlı malzemeler için ilave geometri

Pozitif kesici uçlar



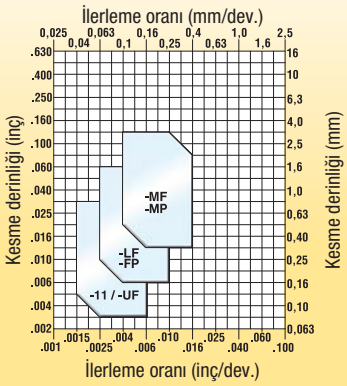
-MF
-MP
Pozitif
Orta işleme



-LF
-FP
Pozitif
Hassas son işleme



-11
-UF
Son derece hassas
son işleme



2. Adım • Kalite seçimi

Kesme şartı	-FF	-FN	-MN	-MR	-RN	-RP	-11	-UF	-LF	-FP	-MF	-MP
Aşırı derecede ağır darbeli kesme	KCP10B/ KCP10	KCP25B/ KCP25	KCP30B/ KCP30	–	KCP30B/ KCP40B	KCP30B/ KCP40B	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP40B/ KCP40	KCM25B/ KCM25
Hafif bir şekilde darbeli kesme	KCP10B/ KCP10	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	–	KCU10/ KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25	KCP25B/ KCP25
Değişken kesme derinliği, yüzey (döküm) kabuğu veya dövme kabuk	KCP05B/ KCP05/ KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KT315	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10	KCP10B/ KCP10
Düz hassas kesme, ön tornalanmış yüzey	KCP05B/ KCP05/ KT315	KCP05B/ KCP05	KCP05B/ KCP05	KCP10B/ KCP10/ KCK15B	KCP05B/ KCP10	KCP05B/ KCP10	KT315	KCP05B/ KCP05	KCP05B/ KCP05/ KT315	KCP05B/ KCP05/ KTP10	KCP05B/ KCP05	KCP05B/ KCP05

Adım 3 • Kesme hızı seçimi

Düşük karbon (<0,3% C) ve kolay işlenebilir çelik (otomat çeliği)

Hız; m/dk. (Yüzey ilerleme/dk.) — Başlangıç koşulları

Malzeme grubu	Kalite	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/dk.	Yüzey ilerleme/dk.
P0/P1	KCP05B/KCP05/KCPK05							◇			435	1450
	KCP10B/KCP10						◇				395	1320
	KCP25B/KCP25				◇						275	925
	KCP30B/KCP30/KCP40B/KCP40		◇								210	700
	KT315/KTP10								◇		440	1450
	KCU10			◇							280	925

Orta ve Yüksek karbon çelikler (>0,3% C)

Hız; m/dk. (Yüzey ilerleme/dk.) — Başlangıç koşulları

Malzeme grubu	Kalite	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/dk.	Yüzey ilerleme/dk.
P2	KCP05B/KCP05/KCPK05				◇						240	800
	KCP10B/KCP10			◇							265	880
	KCP25B/KCP25		◇								195	650
	KCP30B/KCP30/KCP40B/KCP40	◇									150	500
	KT315/KTP10				◇						270	880
	KCU10	◇									200	650

Alaşımlı çelikler ve Takım çelikleri (≤330 HB) (≤35 HRC)

Hız; m/dk. (Yüzey ilerleme/dk.) — Başlangıç koşulları

Malzeme grubu	Kalite	135 (450)	180 (600)	225 (800)	275 (900)	320 (1050)	360 (1200)	410 (1350)	455 (1500)	495 (1650)	m/dk.	Yüzey ilerleme/dk.
P3	KCP05B/KCP05/KCPK05			◇							205	680
	KCP10B/KCP10		◇								190	630
	KCP25B/KCP25	◇									155	510
	KCP30B/KCP30/KCP40B/KCP40	◇									120	400
	KT315/KTP10			◇							210	680
	KCU10		◇								155	510

Alaşımlı çelikler ve Takım çelikleri (340–450 HB) (36–48 HRC)

Hız; m/dk. (Yüzey ilerleme/dk.) — Başlangıç koşulları

Malzeme grubu	Kalite	60 (200)	90 (300)	120 (400)	150 (500)	180 (600)	210 (700)	240 (800)	270 (900)	300 (1000)	m/dk.	Yüzey ilerleme/dk.
P4	KCP05B/KCP05/KCPK05				◇						160	530
	KCP10B/KCP10				◇						145	480
	KCP25B/KCP25			◇							105	360
	KCP30B/KCP30/KCP40B/KCP40		◇								95	325
	KT315/KTP10					◇					210	530
	KCU10			◇							110	360

Ferritik, martensitik ve PH paslanmaz çelikler (≤330 HB) (≤35 HRC)

Hız; m/dk. (Yüzey ilerleme/dk.) — Başlangıç koşulları

Malzeme grubu	Kalite	120 (400)	150 (500)	180 (600)	210 (700)	240 (800)	270 (900)	300 (1000)	330 (1100)	360 (1200)	m/dk.	Yüzey ilerleme/dk.
P5	KCP05B/KCP05/KCPK05					◇					240	800
	KCP10B/KCP10				◇						215	720
	KCP25B/KCP25			◇							195	650
	KCP30B/KCP30/KCP40B/KCP40		◇								135	450
	KT315/KTP10					◇					250	800
	KCU10				◇						200	660

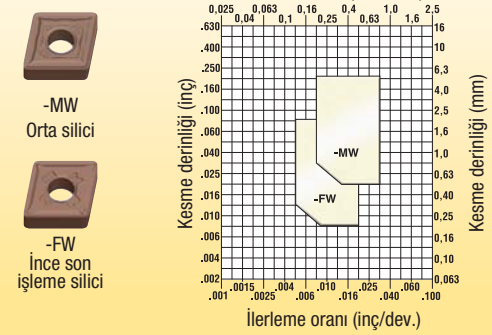
Ferritik, martensitik, ve PH paslanmaz çelikler (340–450 HB) (36–48 HRC)

Hız; m/dk. (Yüzey ilerleme/dk.) — Başlangıç koşulları

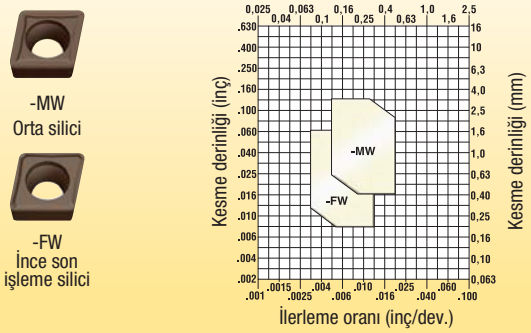
Malzeme grubu	Kalite	105 (350)	135 (450)	165 (550)	195 (650)	225 (750)	255 (850)	285 (950)	315 (1050)	345 (1150)	m/dk.	Yüzey ilerleme/dk.
P6	KCP05B/KCP05/KCPK05				◇						200	660
	KCP10B/KCP10			◇							180	600
	KCP25B/KCP25				◇						150	500
	KCP30B/KCP30/KCP40B/KCP40	◇									105	350
	KT315/KTP10				◇						200	660
	KCU10			◇							150	500

1. Adım • Kesici uç geometrisi seçimi

Negatif temel şekilli silici (Wiper) uçlar



Pozitif temel şekilli silici (Wiper) uçlar



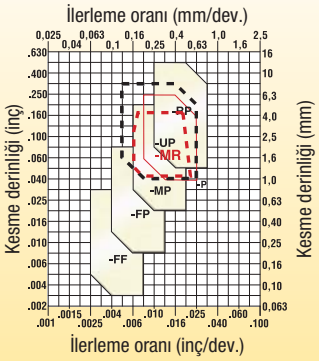
2. Adım • Kalite seçimi

Kesme şartı	Negatif temel şekilli kesici uç geometrisi -FW	Negatif temel şekilli kesici uç geometrisi -MW	Pozitif temel şekilli kesici uç geometrisi -FW	Pozitif temel şekilli kesici uç geometrisi -MW
Ağır darbeli kesme	–	–	–	–
Hafif darbeli kesme	KCM15B/KCM15	KCM25B/KCM25	KCM15B/KCM15	KCM15B/KCM15
Değişkenlik gösteren kesme derinliği, döküm veya dövme kabuğu	KCM15B/KCM15/ KCU10	KCM15B/KCM15	KCU10	KCU10
Yumuşak kesme, önceden tornalanmış yüzey	KCM15B/KCM15/ KT315	KCM15B/KCM15	KT315	KT315

1. Adım • Kesici uç geometrisi seçimi

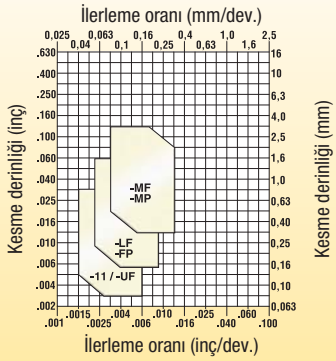
Negatif kesici uçlar





Pozitif kesici uçlar





2. Adım • Kalite seçimi

Kesme şartı	Negatif temel şekilli kesici uç geometrisi -FF	-FP	-MP/-UP	-P/-RP	-MR
Ağır darbeli kesme	KCU10	KCM15B/KCM15	KCM35B/KCM35	KCM35B/KCM35	KCM35B/KCM35
Hafif darbeli kesme	KCU10	KCM15B/KCM15	KCM25B/KCM25	KCM25B/KCM25	KCM25B/KCM25
Değişkenlik gösteren kesme derinliği, döküm veya dövme kabuğu	KT315	KCM15B/KCM15/ KCU10	KCM15B/KCM15	KCM15B/KCM15/ KCM25B/KCM25	KCM15B/KCM15
Yumuşak kesme, önceden tornalanmış yüzey	KT315	KCM15B/KCM15/ KT315	KCM15B/KCM15/ KCU10	KCU10	KCM15B/KCM15

(devamı)

2. Adım • Kalite seçimi *(devamı)*

Kesme şartı		Pozitif temel şekilli kesici uç geometrisi -11	-UF	-LF	-MP/-MF	-FP	..GT-LF
Ağır darbeli kesme		–	KCU25	KCM35B/KCM35	KCM25B/KCM25	KCU25/KCM25B/ KCM25	KCU25
Hafif darbeli kesme		–	KCU10	KCM25B/KCM25	KCM25B/KCM25	KCM15B/KCM15	KCU25
Değişkenlik gösteren kesme derinliği, döküm veya dövme kabuğu		KT315	–	KCM15B/KCU10	KCM15B/KCM15	KCU10	KCU10
Yumuşak kesme, önceden tornalanmış yüzey		KT315	–	KCM15B/KCM15/ KT315	KCM15B/KCM15	KTP10	KCU10

Adım 3 • Kesme hızı seçimi

Ostenitik paslanmaz çelik — **Hız; m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)	m/dk.	Yüzey ilerleme/dk.
M1	KCM15B/KCM15			◁▷							180	600
	KCM25B/KCM25		◁▷								150	500
	KCM35B/KCM35	◁▷									120	400
	KT315				◁▷						230	750
	KCU10			◁▷							215	700
	KCU25		◁▷								180	550

Ostenitik paslanmaz çelik — **Hız; m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)	m/dk.	Yüzey ilerleme/dk.
M2	KCM15B/KCM15			◁▷							165	550
	KCM25B/KCM25		◁▷								140	450
	KCM35B/KCM35	◁▷									105	350
	KT315				◁▷						215	700
	KCU10			◁▷							200	650
	KCU25		◁▷								165	500

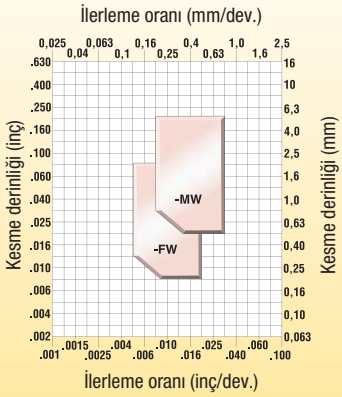
Ostenitik paslanmaz çelik:
Dubleks (Ferritik ve Östenitik karışımı) — **Hız; m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	90 (300)	135 (450)	180 (600)	225 (800)	270 (900)	315 (1050)	360 (1200)	405 (1350)	450 (1500)	m/dk.	Yüzey ilerleme/dk.
M3	KCM15B/KCM15			◁▷							150	500
	KCM25B/KCM25		◁▷								120	400
	KCM35B/KCM35	◁▷									90	300
	KT315				◁▷						200	650
	KCU10			◁▷							185	600
	KCU25		◁▷								150	450

Adım 1 • Kesici uç geometrisi seçimi

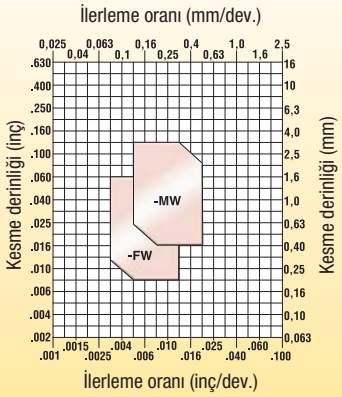
Negatif temel şekilli silici (Wiper) uçlar





Pozitif temel şekilli silici (Wiper) uçlar





Adım 2 • Kalite seçimi

Gri pik döküm

Kesme şartı	Negatif temel şekilli kesici uç geometrisi -FW	-T-20FW	-S...MW...	Pozitif temel şekilli kesici uç geometrisi -FW	-MW
Ağır darbeli kesme	–	KY3500	KB1345	–	KCK15B/KCK15/ KCK20B/KCK20
Hafif darbeli kesme	KCK15B/KCK15	KY3500	KB1345	KCK20B/KCK20	KCK15B/KCK15/ KCK20B/KCK20
Değişkenlik gösteren kesme derinliği, döküm veya dövme kabuğu	KCK05B/KCK05/ KT315	KYK10	KB1345	KCK20B/KCK20	KCK15B/KCK15/ KCK20B/KCK20
Yumuşak kesme, önceden tornalanmış yüzey	KCK05B/KCK05/ KT315	KYK25	KB1345	KCK20B/ KT315	KCK15B/KCK15/ KCK20B/KCK20/KT315

Dövülgen (düktil) demir

Kesme şartı	Negatif temel şekilli kesici uç geometrisi -FW	-T-20FW	Pozitif temel şekilli kesici uç geometrisi -FW	-MW
Ağır darbeli kesme	–	–	–	–
Hafif darbeli kesme	KCK15B/ KCK15	KY3500	KCK20B/ KCK20	KCK20B/ KCK20
Değişkenlik gösteren kesme derinliği, döküm veya dövme kabuğu	KCK05B/KCK05/ KT315	KYK10	KCK20B/ KCK20	KCK20B/ KCK20
Yumuşak kesme, önceden tornalanmış yüzey	KCK05B/KCK05/ KT315	KYK25	KCK20B/KCK20/ KT315	KCK20B/KCK20/ KT315

Adım 3 • Kesme hızı seçimi

Gri dökme demir — **Hız; m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları**

Malzeme grubu	Kalite	60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/dk.	Yüzey ilerleme/dk.
K1	KCK05B/KCK05					◁▷					450	1500
	KCK15B/KCK15				◁▷						360	1200
	KCK20B/KCK20/KCPK05				◁▷						300	1000
	KT315				◁▷						275	900

Dövülgen (düktil), Vermiküler (sıkıştırılmış) grafit ve Dövülgen dökme demir (temperlenmiş döküm) (<80 KSI çekme dayanımı) — **Hız; m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları**

Malzeme grubu	Kalite	60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/dk.	Yüzey ilerleme/dk.
K2	KCK05B/KCK05				◁▷						360	1200
	KCK15B/KCK15					◁▷					270	900
	KCK20B/KCK20/KCPK05					◁▷					240	800
	KT315					◁▷					275	900

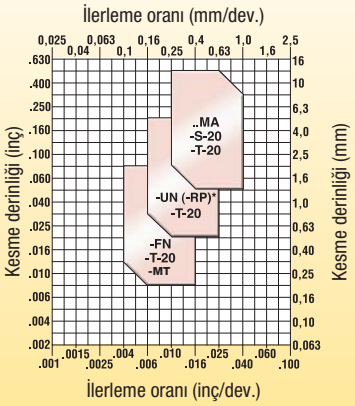
Dövülgen (düktil), Vermiküler (sıkıştırılmış) grafit ve Dövülgen dökme demir (temperlenmiş döküm) (>80 KSI çekme dayanımı) — **Hız; m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları**

Malzeme grubu	Kalite	60 (200)	150 (500)	240 (800)	330 (1100)	420 (1400)	510 (1700)	600 (2000)	690 (2300)	780 (2600)	m/dk.	Yüzey ilerleme/dk.
K3	KCK05B/KCK05				◁▷						240	800
	KCK15B/KCK15				◁▷						215	725
	KCK20B/KCK20/KCPK05			◁▷							210	700
	KT315				◁▷						230	750

1. Adım • Kesici uç geometrisi seçimi

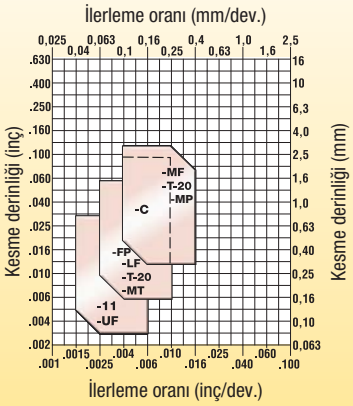
Negatif kesici uçlar





Pozitif kesici uçlar





* Yüksek dayanımlı metallerde takım basıncını azaltmak için orta metal işleme çalışmalarında geometri kullanılabilir.

2. Adım • Kalite seçimi

Gri pik döküm

		Negatif kesici uç geometrisi				Pozitif kesici uç geometrisi			
Kesme şartı		**-FN**	**-MR**	**-UN(-RP)**	**-MA**	**-LF**	**-FP**	**-MF**	**-MP**
Aşırı derecede ağır darbeli kesme		KCK15B/ KCK15	KCP25B/ KCP25/ KCP10B/KCP10	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
Hafif bir şekilde darbeli kesme		KCK15B/ KCK15	KCP10B/ KCP10/ KCP25B/KCP25	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
Değişken kesme derinliği, yüzey (döküm) kabuğu veya dövme kabuk		KCK05B/ KCK05/ KT315	KCK15B/ KCK15	KCK15B/ KCK15	KCK15B/ KCK15	KCK15B/ KCK15	KCK20B/ KCK20	KCK15B/ KCK15	KCK20B/ KCK20
Düz hassas kesme, ön tornalanmış yüzey		KCK05B/ KCK05/ KT315	KCK15B/ KCK15	KCK05B/ KCK05	KCK05B/ KCK05	KCK05B/ KCK05	KCK20B/ KCK20	KCK15B/ KCK15	KCK20B/ KCK20

Dövülgen (düktil) demir

		Negatif kesici uç geometrisi				Pozitif kesici uç geometrisi			
Kesme şartı		**-FN**	**-UN(-RP)**	**-MA**	**-11/-UF**	**-LF**	**-MF**	**-FP**	**-MP**
Aşırı derecede ağır darbeli kesme		KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20	–	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
Hafif bir şekilde darbeli kesme		KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20	KCU10	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20	KCK20B/ KCK20
Değişken kesme derinliği, yüzey (döküm) kabuğu veya dövme kabuk		KCK05B/ KCK05/ KT315	KCK15B/ KCK15	KCK15B/ KCK15	KCU10	KCK15B/ KCK15	KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20
Düz hassas kesme, ön tornalanmış yüzey		KCK05B/ KCK05/ KT315	KCK05B/ KCK05	KCK05B/ KCK05	KT315	KCU10	KCK15B/ KCK15	KCK20B/ KCK20	KCK20B/ KCK20

(devamı)

Adım 3 • Kesme hızı seçimi *(devamı)*

(En uygun hız, dökme kalitesine ve yapısal davranışa bağlıdır.)

Gri dökme demir — **Hız; m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	60 (200)	180 (600)	305 (1000)	430 (1400)	550 (1800)	675 (2200)	800 (2600)	920 (3000)	1040 (3400)	1160 (3800)	m/dk.	Yüzey ilerleme/dk.
K1	KT315		◁▷									275	900
	KB1340/KB1345							◁▷				760	2500
	KCK05B/KCK05				◁▷							450	1500
	KCK15B/KCK15				◁▷							360	1200
	KCK20B/KCK20/KCPK05			◁▷								300	1000

Dövülgen (düktil), Vermiküler (sıkıştırılmış) grafit ve Dövülgen dökme demir (temperlenmiş döküm) (<600 MPa çekme dayanımı) — **Hız; m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	500 (1650)	550 (1800)	600 (1950)	m/dk.	Yüzey ilerleme/dk.
K2	KT315					◁▷								275	900
	KCU10				◁▷									200	650
	KCK05B/KCK05						◁▷							360	1200
	KCK15B/KCK15					◁▷								270	900
	KCK20B/KCK20/KCPK05				◁▷									240	800

Dövülgen (düktil), Vermiküler (sıkıştırılmış) grafit ve Dövülgen dökme demir (temperlenmiş döküm) (>600 MPa çekme dayanımı) — **Hız; m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	500 (1650)	550 (1800)	600 (1950)	m/dk.	Yüzey ilerleme/dk.
K3	KT315				◁▷									230	750
	KCU10			◁▷										150	500
	KCK05B/KCK05				◁▷									240	800
	KCK15B/KCK15			◁▷										215	725
	KCK20B/KCK20/KCPK05		◁▷											210	700

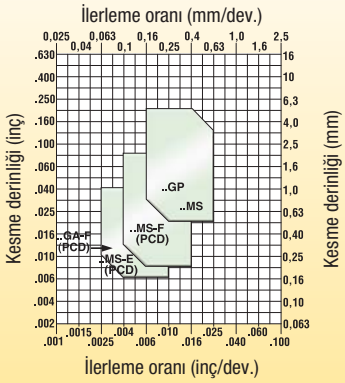
Adım 1 • Kesici uç geometrisi seçimi

Negatif Uçlar



..GP ..MS

Orta hassas son işleme



Pozitif Uçlar



..GT-HP

Orta hassas son işleme

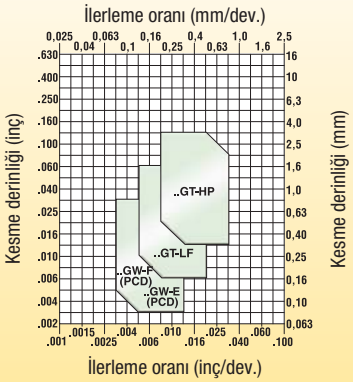


..GT-LF

Hassas son işleme



..GW-F (PCD) ..GW-E (PCD)



Adım 2 • Kalite seçimi

		Negatif temel şekilli kesici uç geometrisi		Pozitif temel şekilli kesici uç geometrisi	
Kesme şartı		**..GP**	**..MS**	**..GT-LF**	**..GT-HP**
Ağır darbeli kesme		**KC5410/K313**	**KC5410**	**–**	**KC5410**
Hafif darbeli kesme		**KC5410/K313**	**KC5410**	**KC5410**	**KC5410**
Değişkenlik gösteren kesme derinliği, döküm veya dövme kabuğu		**KC5410/K313**	**KC5410**	**KC5410**	**KC5410**
Yumuşak kesme, önceden tornalanmış yüzey		**KC5410/K313**	**KC5410**	**KC5410**	**KC5410**

Adım 3 • Kesme hızı seçimi

Düşük silikon alüminyum alaşımlar (ötektik altı<%12,2 Si) ve Magnezyum alaşımlar — **Hız; m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları**

Malzeme grubu	Kalite	250 (800)	500 (1600)	750 (2400)	1000 (3200)	1250 (4000)	1500 (4800)	1750 (5600)	2000 (6400)	2250 (7200)	2500 (8000)	m/dk.	Yüzey ilerleme/dk.
N1	**KC5410**		◁▷									550	1800

Farklı çeşitlerdeki iş parçası malzemelerine yönelik ek kesme hızı önerileri

70–100 İşlenebilirlik endeks aralığında
Bakır, pirinç ve çinko esaslı

Hız; m/dk. (Yüzey ilerleme/dk.) — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/dk.	Yüzey ilerleme/dk.
N4	KC5410	◁▷				275	900
	K313	◁▷				260	850

Naylon, Plastikler, Lastikler, Fenolikler,
Reçineler, Cam elyaf ve Cam

Hız; m/dk. (Yüzey ilerleme/dk.) — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/dk.	Yüzey ilerleme/dk.
N5	KC5410	◁▷				170	550

Karbon ve Grafi t kompozitler : Berilyum bakır alaşımlar
(Brush alaşımlar), Kevlar, ve Grafit (280–400 HB) (30–43 HRC)

Hız; m/dk. (Yüzey ilerleme/dk.) — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/dk.	Yüzey ilerleme/dk.
N6	KC5410	◁▷				200	650

Kalay alaşımı, döküm: ASTM 823, Alaşımlar 1, 2, 3, 11

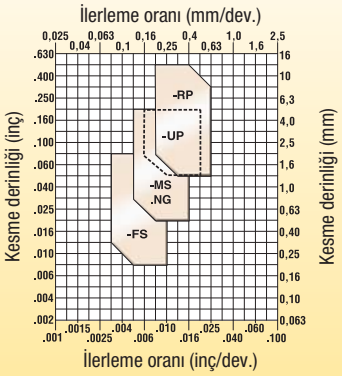
Hız; m/dk. (Yüzey ilerleme/dk.) — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/dk.	Yüzey ilerleme/dk.
N8	KC5410	◁▷				215	700
	K313	◁▷				180	600

Adım 1 • Kesici uç geometrisi seçimi

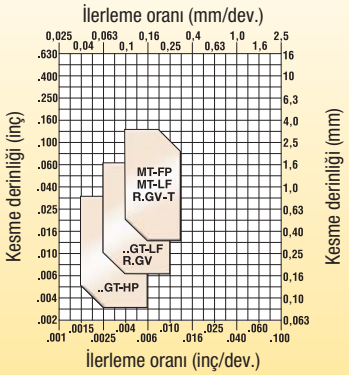
Negatif kesici uçlar





Pozitif kesici uçlar





Adım 2 • Kalite seçimi

	Negatif temel şekilli kesici uç geometrisi			
Kesme şartı	**-FS**	**-MS**	**-UP**	**-RP**
Ağır darbeli kesme	**KCU25**	**KCU25**	**KCM35B**	**KCM25B/ KCM35B**
Hafif darbeli kesme	**KCU10**	**KCU25**	**KCM25B**	**KCM15B**
Değişkenlik gösteren kesme derinliği, döküm veya dövme kabuğu	**KCU10**	**KCU10**	**KCM15B**	**KCU25**
Yumuşak kesme, önceden tornalanmış yüzey	**KCU10/K313**	**KCU10/K313**	**KCU10**	**KCU10**

	Pozitif temel şekilli kesici uç geometrisi			
Kesme şartı	**MT-FP**	**..GT-HP**	**MT-LF**	**..GT-LF**
Ağır darbeli kesme	**KCU25**	**–**	**KCU25**	**KCU25**
Hafif darbeli kesme	**KCU25**	**KCU25**	**KCU25**	**KCU25**
Değişkenlik gösteren kesme derinliği, döküm veya dövme kabuğu	**KCU10/KU10**	**KCU10**	**KCU10**	**KCU10**
Yumuşak kesme, önceden tornalanmış yüzey	**KCU10/KU10**	**KCU10/K313**	**KCU10/K313**	**KCU10/K313**

Adım 3 • Kesme hızı seçimi

Demir esaslı, ısıl dirençli alaşımlar (135–320 HB) (≤34 HRC)

Malzeme grubu	Kalite	Hız; m/dk. (Yüzey ilerleme/dk.) 15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	Başlangıç koşulları m/dk.	Yüzey ilerleme/dk.
S1	K313/KU10		◁▷												30	100
	KCU10			◁▷											55	180
	KCU25		◁▷												40	125
	KCM15B/KCM15			◁▷											55	180
	KCM25B/KCM25/KCM35B/KCM35		◁▷												40	125

Kobalt esaslı, ısıl dirençli alaşımlar (150–425 HB) (≤45 HRC)

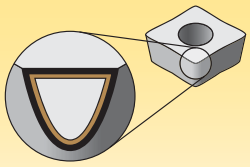
Malzeme grubu	Kalite	Hız; m/dk. (Yüzey ilerleme/dk.) 15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	Başlangıç koşulları m/dk.	Yüzey ilerleme/dk.
S2	K313/KU10		◁▷												35	110
	KCU10			◁▷											60	195
	KCU25		◁▷												30	100
	KCM15B/KCM15			◁▷											60	195
	KCM25B/KCM25/KCM35B/KCM35		◁▷												30	100

Nikel esaslı, ısıl dirençli alaşımlar (140–475 HB) (≤48 HRC)

Malzeme grubu	Kalite	Hız; m/dk. (Yüzey ilerleme/dk.) 15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	Başlangıç koşulları m/dk.	Yüzey ilerleme/dk.
S3	K313/KU10		◁▷												40	125
	KCU10			◁▷											70	225
	KCU25		◁▷												40	125
	KCM15B/KCM15			◁▷											70	225
	KCM25B/KCM25/KCM35B/KCM35		◁▷												40	125

Titanyum ve Titanyum alaşımlar (110–450 HB) (≤48 HRC)

Malzeme grubu	Kalite	Hız; m/dk. (Yüzey ilerleme/dk.) 15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	Başlangıç koşulları m/dk.	Yüzey ilerleme/dk.
S4	K313/KU10		◁▷												45	150
	KCU10			◁▷											70	225
	KCU25		◁▷												55	175
	KCM15B/KCM15			◁▷											70	225
	KCM25B/KCM25/KCM35B/KCM35		◁▷												55	175

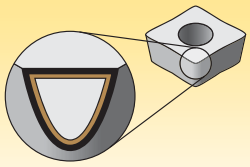


Kaplamalar yüksek hız yeteneği sağlar ve hassas son işlemeden hafif kaba işlemeye kadar olan uygulamalar için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ← → **Tokluk**

	Kaplama	Kalite tanımı		05	10	15	20	25	30	35	40	45
Kaplamasız karbür kaliteleri	K313	**Bileşim:** Sert, düşük baglayıcı içeriği, alaşımsız WC/Co ince taneli kalite. **Uygulama:** Titanyum, dökme demir, östenitik paslanmaz çelik, demir dışı metaller, metal olmayan malzemeler ve en yüksek ısıl dirençli alaşımları işlemede çok yüksek dayanıklılık ile olağanüstü kenar aşınma direnci. Üstün termal biçim değişimi direnci ve kesme derinliği çentik direncinin birleşimi. Tane yapısı, yüzey gerilimi açısından en küçük çukurları ve çatlakları iyi kontrol altına alır ve bu özellik uzun ve güvenilirlikli talaş kaldırma işlemine katkı sağlar.										
			M									
			K									
			N									
			S									
	K68	**Bileşim:** Sert, düşük bağlayıcı içerikli, alaşımlı kalite WC/Co ince taneli kalite. **Uygulama:** K68 kalite, dökme demirleri, ostenitik paslanmaz çelikleri, demir dışı metalleri, metal olmayan malzemeleri ve K313 kalitesine bir alternatif olarak ısıl dirençli alaşımları işleme için mükemmel aşınma direncine sahiptir. Demir dışı malzemeler için genel amaçlı kalite olarak kullanılır.										
			M									
			K									
			N									
			S									
PVD (Fiziksel buharlı birikim) kaplamalı kaliteler	KCS10	**Bileşim:** Gelişmiş bir PVD-AlTiN kaplamalı, ince taneli tungsten karbür kalite. **Uygulama:** KCS10 kalitesi, ısıl dirençli alaşımların üretken şekilde işlenmeleri için özel olarak tasarlanmıştır. Bilinen geleneksel PVD kaplamalı kesici takımlara karşın gelişmiş PVD kaplama metal işleme hızları iki katına erişirken, ince taneli tungsten karbür altyapı mükemmel tokluğa ve biçim değişimi direncine sahiptir.										
			P									
			M									
			K									
			N									
			S									
			H									
	KCU10	**Bileşim:** Biçim değişimine çok dayanıklı alaşımsız karbür altyapı üzerine gelişmiş çok katmanlı PVD kaplama. Yeni ve iyileştirilmiş kaplama, çok çeşitli hız ve ilerleme kapasitesi ile sürdürülebilir kenar sağlamlığını iyileştirir. **Uygulama:** KCU10™ kalite, çok çeşitli hız ve ilerleme kapasitesinde çoğu iş parçası malzemesinin hassas son işlenmesi ve genel kullanım amaçlı işlenmesi için idealdir. İyileştirilmiş kenar tokluğu, çentik direnci ve yüksek kesme hızı veya ilerleme özelliği ile çoğu çelik, paslanmaz çelik, dökme demir, demir dışı malzemeleri ve ısıl dirençli alaşımları işlemek için mükemmeldir. beyond										
			P									
			M									
			K									
			N									
			S									
			H									

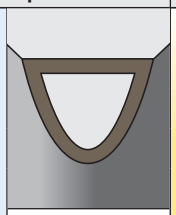
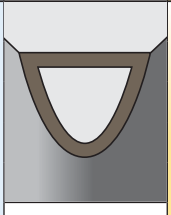
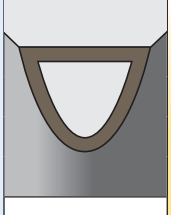
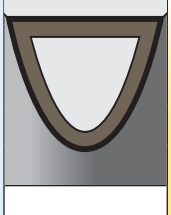


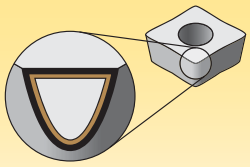
Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ◄——► **Tokluk**

PVD (Fiziksel buharlı birikim) kaplamalı kaliteler

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
KCU25  —	**Bileşim:** Sert AlTiN kaplama ve ince taneli alasımsız altyapısıyla gelişmiş PVD kalitesi. Yeni ve gelişmiş kaplama, geniş hız ve ilerleme özellikleri kapsayan ürün grubu ile kesme kenarı dayanıklılığın artırır. **Uygulama:** KCU25™ kalite, darbeli kesme ve yüksek ilerleme oranları için gelişmiş kenar tokluguyla çogu çelikleri, paslanmaz çelikleri, ısıl dirençli alaşımları, titanyumu, demirleri ve demir dışı malzemeleri geniş bir hızlar ve ilerlemeler kapsamında genel işleme için idealdir. beyond	P									
		M									
		K									
		N									
		S									
KC5010  —	**Bileşim:** Biçim değişimine çok dayanıklı alaşımsız karbür altyapısı üzerine gelişmiş çok katmanlı PVD AlTiN kaplama. **Uygulama:** KC5010™ kalitesi, çoğu iş parçası malzemesinin daha yüksek hızlarda hassas ve genel işlemesi için idealdir. Kararlı koşullarda çoğu çelik, paslanmaz çelik, dökme demir, demir dışı malzemeleri ve ısıl dirençli alaşımları işlemede mükemmeldir. Aynı zamanda, sertleştirilmiş ve kısa talaş veren malzemelerin işlenmesinde iyi performans gösterir.	P									
		M									
		K									
		N									
		S									
		H									
KC5025  —	**Bileşim:** Sert, son derece ince taneli alaşımsız altyapılı gelişmiş PVD-AlTiN kaplı kalite. **Uygulama:** Çoğu çelik, paslanmaz çelik, ısıl dirençli alaşım, titanyum, demir ve demir dışı malzemelerin genel amaçlı işlemesi için uygun. Hızlar, orta ile düşük arasında değişebilir ve kesintileri ve yüksek ilerleme oranları ile başa çıkar.	P									
		M									
		K									
		N									
		S									
KC5410  —	**Bileşim:** Biçim değişimine karşı oldukça dirençli alaşımsız karbür altyapı üzerinde PVD TiB_2 kaplama. **Uygulama:** Kolay işlenen (ötektik altı <%12,2 Si) alüminyumu, alüminyum alaşımları ve magnezyum alaşımları kaba işleme, yarı hassas işleme ve hassas son işleme için tasarlanmıştır. TiB_2 kaplaması, TiN veTiAlN kaplamalarından daha serttir ve oldukça pürüzsüz bir yüzeye sahip olup, yüzey sürtünmesinin azalmasına, hızlı talaş akışına ve mükemmel aşınma direnci oluşumuna olanak sağlar. Bu kaplamanın alüminyumla çok az birleşme eğilimi olduğu için talaş birikmesi önlenir. Altyapı alaşımsız ve ince taneli olup, keskin kesme kenarları, pürüzsüz hassas yüzeyler, termal biçim değişimine karşı mükemmel direnç ve kesme kenarı bütünlüğü sağlar. Çevresel taşlanmış kesici uçlar kaplama öncesi parlatılır ve keskin bir kenara sahiptir. Kalıplanmış kesici uçlarda hafif bir honlama vardır.										
		N									

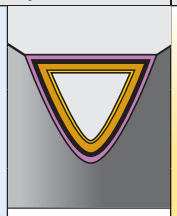
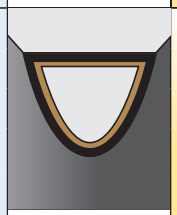
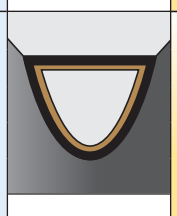
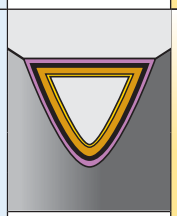
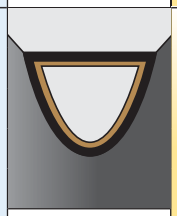


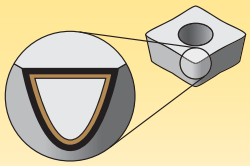
Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ◄——► Tokluk

CVD (Kimyasal buharlı birikim) kaplamalı karbür kaliteleri

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
KCP05B  —	**Bileşim:** Özel olarak tasarlanmış yapışkan MTCVD TiCN-Al_2O_3-TiOCN kaplamalı yenilikçi, biçim değişimine karşı oldukça dirençli, kobalt ile zenginleştirilmiş altyapı. **Uygulama:** Çoğu çeliğin, ferritik, martensitik ve PH paslanmaz çeliklerin ve dökme demirlerin hassas son işlemeden yarı hassas işlemeye kadar işlenmesinde kullanılır. Biçim değişimi direnci ile kesici uç kesme kenarı dayanıklılığının mükemmel birleşimini sağlar. Yeni kaplama, en son teknolojik ve bilimsel gelişmeleri yansıtan kaplama sonrası işlem ile birleşerek öngörülebilir uzun takım ömrü ve mükemmel hassas son işlemeli iş parçası yüzey kalitesi ile yüksek verimlilik sağlar. beyond™ DRIVE™	P								
		K								
KCP05  —	**Bileşim:** Özel tasarlanmış yapışkan MTCVD TiCN-Al_2O_3 kaplamaya sahip yenilikçi, biçim değişimine karşı oldukça dirençli, kobalt ile zenginleştirilmiş altyapı. **Uygulama:** Çoğu çeliğin, ferritik, martensitik ve PH paslanmaz çeliklerin ve dökme demirlerin hassas son işlemeden yarı hassas işlemeye kadar işlenmesinde kullanılır. Biçim değişimi direnci ile kesici uç kesme kenarı dayanıklılığının mükemmel birleşimini sağlar. Yeni kaplama, en son teknolojik ve bilimsel gelişmeleri yansıtan kaplama sonrası işlem ile birleşerek öngörülebilir uzun takım ömrü ve mükemmel hassas son işlemeli iş parçası yüzey kalitesi ile yüksek verimlilik sağlar. beyond™	P								
		K								
KCPK05  —	**Bileşim:** Biçim değişimi direnci, kobalt ile zenginleştirilmiş altyapı kalın MTCVD TiCN-Al_2O_3 kaplama ile birleşimi. **Uygulama:** Çelikleri ve PH paslanmaz çelikleri yüksek üretkenlikte tornalamak için sürekli hafif bir sekilde darbeli kesmeler. Bu kalite, en yüksek hızda çelik parça üretimine olanak sağlayan toklugun ve yüksek hızda aşınma direncinin mükemmel birleşimini gerçeklestirir. Altyapı ve kaplamanın benzersiz bilesimi ayrıca talaş kaynama direnci gerektigi durumlarda dökme demir için ideal bir kaba işleme kalitesi sağlar. beyond™	P								
		K								
KCP10B  —	**Bileşim:** Maksimum aşınma direnci için kalın MTCVD TiCN-Al_2O_3-TiOCN kaplamalı özel olarak tasarlanmış kobalt ile zenginleştirilmiş karbür kalitesi. **Uygulama:** Çogu çelik, ferritik, martensitik ve PH paslanmaz çelikler ve dökme demir dahil çesitli is parçası malzemeleri için hassas son işlemeden orta işlemeye kadar kullanılan mükemmel kalite. Kalın kaplama tabakaları yüksek hızda işleme için olaganüstü aşınma direnci ve krater aşınma direnci sağlarken, kobalt ile zenginleştirilmiş altyapı, dengeli bir biçim değişimi direnci ve kenar tokluğu birleşimi sunar. Düz pürüzsüz kaplama, kesme ağzında talaş yapışmasına ve mikro talaş oluşumuna karşı direnç gösterir ve mükemmel hassas son işlemeli yüzey kaliteleri sağlar. beyond™ DRIVE™	P								
		K								
KCP10  —	**Bileşim:** Maksimum aşınma direnci için kalın MTCVD TiCN-Al_2O_3 kaplamalı özel olarak tasarlanmış kobalt ile zenginleştirilmiş karbür kalitesi. **Uygulama:** Çogu çelik, ferritik, martensitik ve PH paslanmaz çelikler ve dökme demir dahil çesitli iş parçası malzemeleri için hassas son işlemeden orta işlemeye kadar kullanılan mükemmel kalite. Kalın kaplama tabakaları yüksek hızda işleme için olaganüstü aşınma direnci ve krater aşınma direnci sağlarken, kobalt ile zenginlestirilmis altyapı, dengeli bir biçim değişimi direnci ve kenar toklugu birleşimi sunar. Düz pürüzsüz kaplama, kesme agzında talaş yapısmasına ve mikro talaş oluşumuna karşı direnç gösterir ve mükemmel hassas son işlemeli yüzey kaliteleri sağlar. beyond™	P								
		K								

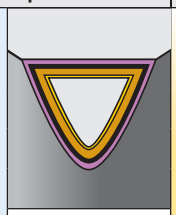
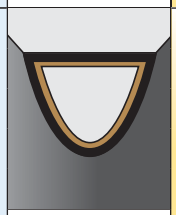
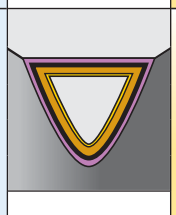
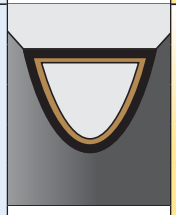


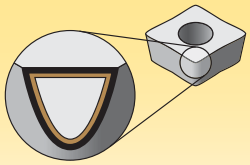
Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ◄——► Tokluk

CVD (Kimyasal buharlı birikim) kaplamalı karbür kaliteleri

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
KCP25B  —	**Bileşim:** Üstün ara katman tutunmasına sahip çok katmanlı MTCVD TiCN-Al_2O_3-TiOCN kaplamalı tok kobalt ile zenginleştirilmiş karbür kalitesi. **Uygulama:** Çogu çelik ve ferritik ve martensitik paslanmaz çelik için en iyi genel amaçlı tornalama kalitesi. Altyapı tasarımı, mükemmel kesici uç kenar dayanıklılığı ile yeterli biçim değişikligi direnci sağlar. Kaplama tabakaları çok çesitli işleme kosullarında iyi bir aşınma direnci sağlar ve kaplama sonrası işlemi mikro talaş oluşumunu en aza indirir ve kaplamanın altyapıya daha iyi tutunmasını ve dolayısıyla uzun takım ömrü ve gelişmiş hassas son işlemeli iş parçası elde edilir. beyond DRIVE™				■	■	■			
							■	■	■	
KCP25  —	**Bileşim:** Üstün ara katman tutunmasına sahip çok katmanlı MTCVD TiCN-Al_2O_3 kaplamalı tok kobalt ile zenginleştirilmiş karbür kalitesi. **Uygulama:** Çogu çelik ve ferritik ve martensitik paslanmaz çelik için en iyi genel amaçlı tornalama kalitesi. Altyapı tasarımı, mükemmel kesici uç kenar dayanıklılıgı ile yeterli biçim degisikligi direnci sağlar. Kaplama tabakaları çok çesitli işleme kosullarında iyi bir aşınma direnci sağlar ve kaplama sonrası işlemi mikro talaş oluşumunu en aza indirir ve kaplamanın altyapıya daha iyi tutunmasını ve dolayısıyla uzun takım ömrü ve gelişmiş hassas son işlemeli iş parçası elde edilir. beyond™				■	■	■			
							■	■	■	
KCP30B  —	**Bileşim:** Gelişmiş çok katmanlı bir MTCVD TiCN-Al_2O_3-TiOCN kaplamaya sahip, kobalt ile zenginleştirilmiş tok bir karbür kalitesi. **Uygulama:** Tüm karbon, alaşım ve paslanmaz çeliklerin orta işlemeden kaba işlemeye kadar olan uygulamalar için uygun. Altyapı tasarımı bu uygulama için gerekli olan üstün kesici uç dayanıklılığı sağlar ve çok katmanlı kaplama kesici uca aşınma direnci eklemesi sonucunda daha uzun takım ömrü elde edilir. beyond DRIVE™				■	■	■	■	■	
					■	■				
KCP30  —	**Bileşim:** Gelişmiş çok katmanlı bir MTCVD TiCN-Al_2O_3 kaplamaya sahip, kobalt ile zenginleştirilmiş tok bir karbür kalitesi. **Uygulama:** Tüm karbon, alaşım ve paslanmaz çeliklerin orta işlemeden kaba işlemeye kadar olan uygulamalar için uygun. Altyapı tasarımı bu uygulama için gerekli olan üstün kesici uç dayanıklılığı sağlar ve çok katmanlı kaplama kesici uca aşınma direnci eklemesi sonucunda daha uzun takım ömrü elde edilir. beyond™				■	■	■	■	■	
					■	■				

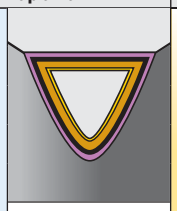
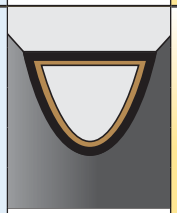
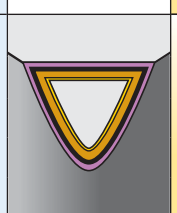
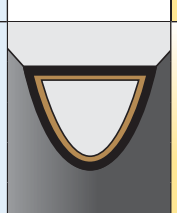
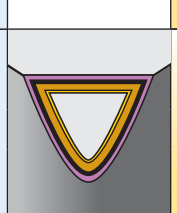


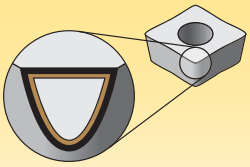
Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ◄——► Tokluk

CVD (Kimyasal buharlı birikim) kaplamalı karbür kaliteleri

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
KCP40B  —	**Bileşim:** İnce MTCVD TiCN-Al_2O_3-TiOCN kaplamalı tok bir karbür kalitesi. **Uygulama:** Karbon, alaşım ve paslanmaz çeliklerin ağır kaba işlemesi için uygun. Altyapı kaplama birleşimi, inanılmaz düzeyde tokluk ve iş süreci güvenilirliği sağlayarak en zorlu darbeli kesmelerde bile yüksek talaş kaldırma oranına izin verir. beyond DRIVE™	P						■	■	■
		M				■	■	■		
		K								
		N								
		S								
		H								
KCP40  —	**Bileşim:** İnce MTVCVD TiCN-Al_2O_3 kaplamalı tok bir karbür kalitesi. **Uygulama:** Karbon, alaşım ve paslanmaz çeliklerin ağır kaba işlemesi için uygun. Altyapı kaplama birleşimi, inanılmaz düzeyde tokluk ve iş süreci güvenilirliği sağlayarak en zorlu darbeli kesmelerde bile yüksek talaş kaldırma oranına izin verir. beyond	P						■	■	■
		M				■	■	■		
		K								
		N								
		S								
		H								
KCK05B  —	**Bileşim:** Yüksek biçim degisimine dayanıklı karbür altyapı üzerinde kısmen kalın MTCVD TiCN-Al_2O_3-TiOCN katmanlarına sahip çok katmanlı kaplama. **Uygulama:** Gri dökme demir ve dövülgen (düktil) demirlerin yüksek hızda islenmeleri için tasarlanmıştır. Altyapı ve kaplama mimarisi kaplama sonrası islem ile birlikte, özellikle is parçası ölçü tutarlılıgının ve takım ömrü güvenilirliginin kritik önem tasıdıgı dövülgen ve gri dökme demirleri daha yüksek çekme dayanıklılıgına karşın keserken son derece uzun bir takım ömrü avantajı sağlar. Hem sürekli kesmelerde hem de degisken kesme derinliklerinde mükemmel. beyond DRIVE™	P	■								
		M								
		K	■	■	■					
		N								
		S								
		H								
KCK05  —	**Bileşim:** Biçim degisimine karşı yüksek dirençli karbür altyapı üzerinde kısmen kalın MTCVD TiCN-Al_2O_3 katmanlara sahip çok katmanlı kaplama. **Uygulama:** Gri dökme demir ve dövülgen (düktil) demirlerin yüksek hızda islenmeleri için tasarlanmıştır. Altyapı ve kaplama mimarisi kaplama sonrası islem ile birlikte, özellikle is parçası ölçü tutarlılıgının ve takım ömrü güvenilirliginin kritik önem tasıdıgı dövülgen ve gri dökme demirleri daha yüksek çekme dayanıklılıgına karşın keserken son derece uzun bir takım ömrü avantajı sağlar. Hem sürekli kesmelerde hem de degisken kesme derinliklerinde mükemmel. beyond	P	■								
		M								
		K	■	■	■					
		N								
		S								
		H								
KCK15B  —	**Bileşim:** Dökme demirler için özel olarak tasarlanmış karbür altyapı üzerine kalın MTCVD TiCN-Al_2O_3-TiOCN katmanlar uygulanmış çok katmanlı kaplama. **Uygulama:** Gri dökme demir ve dövülgen (düktil) demirlerin yüksek hızda işlenmesinde kararlı performans sağlar. Altyapı tasarımı, kesici ucun yüksek hızlarda uzun süre minimum biçim değişimiyle kesme eylemini sürdürmesine olanak sağlar. Kalın CVD kaplama ve kaplama sonrası işlem üstün aşınma direnci sağlaması sayesinde uzun ve tutarlı takım ömrü elde edilir. Hem sürekli hem de hafif darbeli kesmelerde uygulanabilir. beyond DRIVE™	P	■	■							
		M								
		K		■	■	■	■			
		N								
		S								
		H								

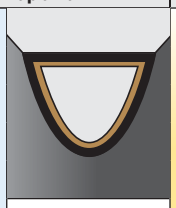
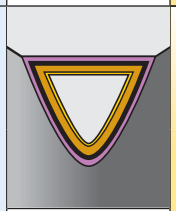
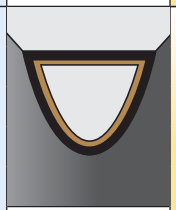
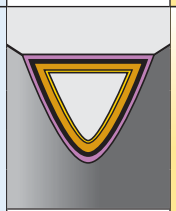


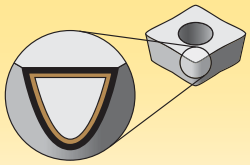
Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ◄——► Tokluk

CVD (Kimyasal buharlı birikim) kaplamalı karbür kaliteleri

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
KCK15  —	**Bileşim:** Dökme demirler için özel olarak tasarlanmış karbür altyapı üzerine kalın MTCVD TiCN-Al_2O_3 katmanları uygulanmış çok katmanlı kaplama. **Uygulama:** Gri dökme demir ve dövülgen (düktil) demirlerin yüksek hızda işlenmesinde kararlı performans sağlar. Altyapı tasarımı, kesici ucun yüksek hızlarda uzun süre minimum biçim değişimiyle kesme eylemini sürdürmesine olanak sağlar. Kalın CVD kaplama ve kaplama sonrası işlem üstün aşınma direnci sağlaması sayesinde uzun ve tutarlı takım ömrü elde edilir. Hem sürekli hem de hafif darbeli kesmelerde uygulanabilir. beyond	P	K							
KCK20B  —	**Bileşim:** Aşınmaya karşı dayanıklı bir altyapı üzerinde özel olarak sertleştirilmiş MTCVD TiCN-Al_2O_3-TiOCN kaplama. **Uygulama:** Kaplama tutunmasını ve kenar dayanıklılığını en üst düzeye çıkarmak için özel olarak tasarlanmış olması bu kaliteyi düvülgen (düktil) ve gri dökme demirlerin ıslak darbeli kesmede ideal olmasını sağlar. Dayanıklılığın ve güvenilirligin gerekli oldugu her yerde verimliliği en üst düzeye çıkarmak için hassas son işlemeden kaba işlemeye kadar olan uygulamalarda kullanılabilir. beyond DRIVE	P	K							
KCK20  —	**Bileşim:** Aşınmaya karşı dayanıklı bir altyapı üzerinde özel olarak sertleştirilmiş MTCVD TiCN-Al_2O_3 kaplama. **Uygulama:** Kaplama tutunmasını ve kenar dayanıklılığını en üst düzeye çıkarmak için özel olarak tasarlanmış olması bu kaliteyi düvülgen (düktil) ve gri dökme demirlerin ıslak darbeli kesmede ideal olmasını sağlar. Dayanıklılığın ve güvenilirligin gerekli olduğu her yerde verimliliği en üst düzeye çıkarmak için hassas son işlemeden kaba işlemeye kadar olan uygulamalarda kullanılabilir. beyond	P	K							
KCM15B  —	**Bileşim:** Çok katmanlı MTVCVD TiCN-Al_2O_3kaplamalı karbür kalitesi. **Uygulama:** Ostenitik paslanmaz çeliklerin yüksek hızlarda hassas son işlemeden orta işlemeye kadar olan uygulamalar için mükemmel bir kalitedir ve P20–P25 aralığında geniş çelik uygulamalarını da kapsar. KCM15B kalitesi benzersiz geometrilerle birlikte kesme derinliği çentik oluşumuna direnmek ve çapak oluşmasını en aza indirmek için tasarlanmıştır. Kaplama sonrası işlem, kaplama baskılarını azaltır, kaplama tutunmasını geliştirir, mikro talaş oluşumunu ve kesme kenarında talaş yapışmasını en az düzeye indirir ve iş parçası hassas son işlemesini iyileştirir. beyond DRIVE	P	M							

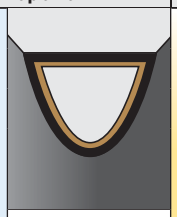
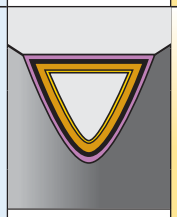
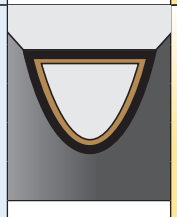
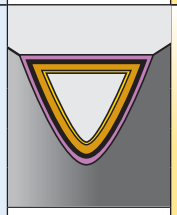
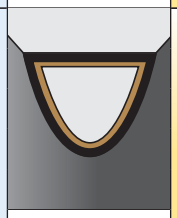


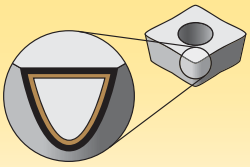
Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ⟷ Tokluk

CVD (Kimyasal buharlı birikim) kaplamalı karbür kaliteleri

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
KCM15  —	**Bileşim:** Çok katmanlı MTVCVD TiCN-Al_2O_3 kaplamalı karbür kalitesi. **Uygulama:** Ostenitik paslanmaz çeliklerin yüksek hızlarda hassas son işlemeden orta işlemeye kadar olan uygulamalar için mükemmel bir kalitedir ve P20–P25 aralığında geniş çelik uygulamalarını da kapsar. KCM15B kalite ile benzersiz geometrilerin birleşmesinde kesme derinliği çentik oluşumuna direnç göstermek ve çapak oluşmasını en aza indirmek için tasarlanmıştır. Kaplama sonrası işlem, kaplama baskılarını azaltır, kaplama tutunmasını geliştirir, mikro talaş oluşumunu ve kesme kenarında talaş yapışmasını en az düzeye indirir ve iş parçası hassas son işlemesini iyileştirir. beyond	P				■	■				
		M		■	■	■						
KCM25B  —	**Bileşim:** Çok katmanlı MTCVD TiCN-Al_2O_3-TiOCN kaplamalı karbür kalitesi. **Uygulama:** Bu CVD kaplı kalite, ostenitik paslanmaz çeliklerin orta hızlarda ve ilerlemelerde genel kullanım amaçlı işleme için tasarlanmıştır. Bu kalite, paslanmaz çelik uygulamalarında toklukta kesme kenarında talaş yapışma direncinin ve aşınma direncinin sıra dışı birleşimini sağlar. beyond DRIVE	P							■	■	■
		M				■	■	■				
KCM25  —	**Bileşim:** Çok katmanlı bir CVD kaplama, kobalt ile zenginleştirilmiş tok bir karbür altyapı üstünde MTCVD TiCN-Al_2O_3 katmalardan oluşur. **Uygulama:** Bu CVD kaplı kalite, ostenitik paslanmaz çeliklerin orta hızlarda ve ilerlemelerde genel kullanım amaçlı işleme için tasarlanmıştır. Bu kalite, paslanmaz çelik uygulamalarında toklukta kesme kenarında talaş yapışma direncinin ve aşınma direncinin sıra dışı birleşimini sağlar. beyond	P							■	■	■
		M				■	■	■				
KCM35B  —	**Bileşim:** Son derece tok altyapı üzerine çok katmanlı MTCVD TiCN-Al_2O_3-TiOCN kaplama. **Uygulama:** Çok kaba döküm paslanmaz çelik işleme uygulamalarında kullanmak için tasarlanmıştır. Altyapı agır darbelere dayanırken kaplama uzun takım ömrü için gerekli olan aşınma direnci sağlar. Parlatılmış yüzey yavas kesme hızlarında bile kesme kenarında talaş yapısmasına direnir. Agır ilerlemeler ile büyük kesme derinlikleri için uygun kesici uçlar ve geometriler olarak mevcut. beyond DRIVE	P								■	■
		M					■	■	■			
KCM35  —	**Bileşim:** Son derece tok altyapı üzerine çok katmanlı MTCVD TiCN-Al_2O_3 kaplama. **Uygulama:** Çok kaba döküm paslanmaz çelik işleme uygulamalarında kullanmak için tasarlanmıştır. Altyapı agır darbelere dayanırken kaplama uzun takım ömrü için gerekli olan aşınma direnci sağlar. Parlatılmış yüzey yavas kesme hızlarında bile kesme kenarında talaş yapısmasına direnir. Agır ilerlemeler ile büyük kesme derinlikleri için uygun kesici uçlar ve geometriler olarak mevcut. beyond	P								■	■
		M					■	■	■			



Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

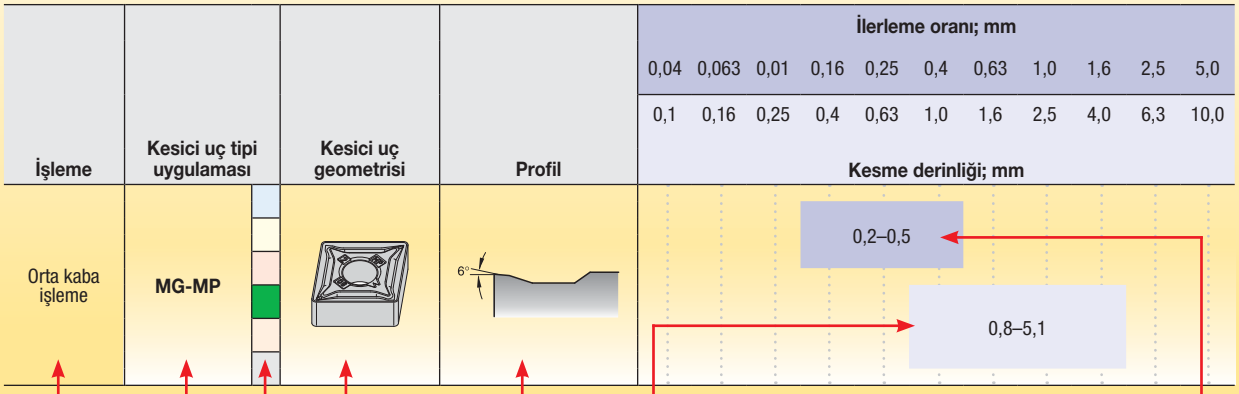
Aşınma direnci ⟷ Tokluk

PDV (Fiziksel birikim) kaplamalı karbür kaliteleri

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
KT315 —	**Bileşim:** TiN/TiCN/TiN kaplamalı sermet, çok katmanlı bir PVD tornalama kalitesi. **Uygulama:** Çogu karbon ve alaşımlı çelik ve paslanmaz çeliklerin yüksek hızda hassas son işlemeden orta işlemeye kadar olan uygulamalar için idealdir. Dökme demir ve dövülgen (düktil) dökme demir uygulamalarında da çok iyi performans sağlar. Uzun ve tutarlı takım ömrü sağlar ve mükemmel iş parçası hassas son işlemeli yüzey kalitesi üretir.	P	P							
		K	K							
KTP10 —	**Bileşim:** Çok katmanlı PVD TiN/TiCN/TiN kaplamalı sermet tornalama kalitesi. **Uygulama:** Daha çok karbon içerikli ve alaşımlı çelikleri ve paslanmaz çelikleri yüksek hızda hassas son işlemden orta işlemeye kadar olan uygulamalar için ideal. Dökme demir ve dövülgen (düktil) demir uygulamalarında da çok iyi performans sağlar. Uzun ve tutarlı takım ömrü sağlar ve mükemmel hassas son işlemeli iş parçası üretimini gerçekleştirir.	P	P							
		M	M							
		K	K							

İlerleme oranına ve kesme derinliğine göre geometri seçimi

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı malzemeler
S	Yüksek ısıya dayanıklı alaşımlar
H	Sertleştirilmiş malzemeler



İlerleme oranı aralığı —
Çok iyi sonuçlar elde etmek için merkez aralığın %60' ı kullanılır.

Kesme derinliği aralığı —
Programdaki tüm kesici uçlar için, hafif kesmelerde daha küçük kesici uçlar ve ağır kesmelerde daha büyük kesici uçlar seçilir.

Kesici ucun resimli görüntüsü

Talaş kırıcı geometri;
Seçme, kesici uç köşe radyüsü sayesinde yapılır

Birincil iş parçası malzeme grubu

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı malzemeler
S	Yüksek ısıya dayanıklı alaşımlar
H	Sertleştirilmiş malzemeler

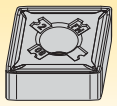
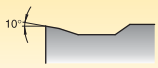
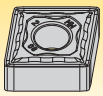
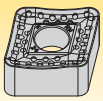
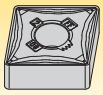
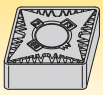
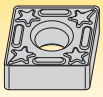
Talaş kontrol geometrisi tanımı;
Örnek: MG-MP = CNMG-432MP

İşleme süreci;
Kesici uç geometrisinin tasarlanma nedeni

NOT: Ayrıntılı kalite ve geometri önerileri için İnovasyonlar Ana kataloğu Kesici takımlar 2013, Kennametal Beyond™ seçme sistemleri kısmına, B8–B21 sayfa aralığına bakınız.

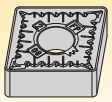
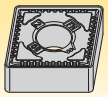
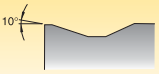
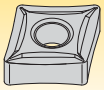
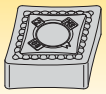
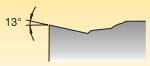
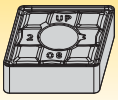
İlerleme oranına ve kesme derinliğine göre geometri seçimi

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı malzemeler
S	Yüksek ısıya dayanıklı alaşımlar
H	Sertleştirilmiş malzemeler

İşleme	Kesici uç tipi uygulaması	Kesici uç geometrisi	Profil	İlerleme oranı; mm: 0,04 / 0,063 / 0,1 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 5,0 — Kesme derinliği; mm: 0,1 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 4,0 / 6,3 / 10,0
Silici hassas son işleme	**MG-FW**			0,2–0,4; 0,25–2,0
Silici orta işleme	**MG-MW**			0,3–0,6; 0,8–5,1
Silici kaba işleme	**MM-RW**			0,3–1,3; 1,3–12,7
İnce son işleme	**MG-FF**			0,05–0,25; 0,08–2,0
Hassas son işleme keskin	**GG-FS** Hassas taşlama			0,07–0,25; 0,20–2,0
Hassas son işleme	**GG-LF** Hassas taşlama			0,1–0,5; 0,5–3,0

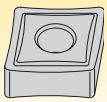
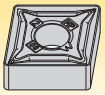
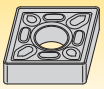
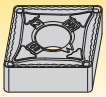
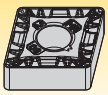
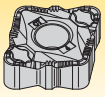
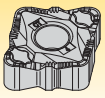
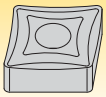
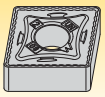
İlerleme oranına ve kesme derinliğine göre geometri seçimi

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı malzemeler
S	Yüksek ısıya dayanıklı alaşımlar
H	Sertleştirilmiş malzemeler

İşleme	Kesici uç tipi uygulaması	Kesici uç geometrisi	Profil	İlerleme oranı; mm: 0,04 / 0,063 / 0,1 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 5,0 Kesme derinliği; mm: 0,1 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 4,0 / 6,3 / 10,0
Hassas son işleme	**MG-FP**			0,1–0,3 0,25–2,5
	MG-FN			0,1–0,3 0,3–2,5
	MP-K			0,1–0,3 0,2–2,5
Orta keskin	**MG-MS**			0,12–0,35 0,76–5,0
Orta işleme	**MG-UP**			0,2–0,6 1–6,4

İlerleme oranına ve kesme derinliğine göre geometri seçimi

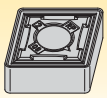
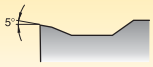
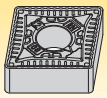
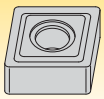
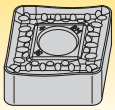
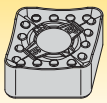
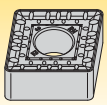
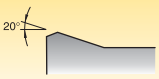
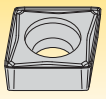
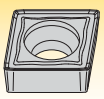
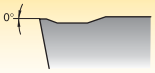
P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı malzemeler
S	Yüksek ısıya dayanıklı alaşımlar
H	Sertleştirilmiş malzemeler

İşleme	Kesici uç tipi uygulaması	Kesici uç geometrisi	Profil	İlerleme oranı; mm: 0,04 / 0,063 / 0,01 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 5,0 Kesme derinliği; mm: 0,1 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 4,0 / 6,3 / 10,0
Orta işleme	_GP*			0,3–0,5 0,5–3,2
	MG-MP			0,15–0,5 0,8–5,1
	MG-P			0,15–0,5 0,75–5,0
	MG-MN			0,15–0,5 0,5–5,1
	MG-MR			0,15–0,55 1,5–6,3
	MG-CT Dış çap tornalama			0,13–0,5 1,0–3,0
	MG-CT Dış yüzey alın işleme			0,25–0,5 0,25–1,0
	-MS Tek taraflı			0,15–0,4 0,6–2,3
	MG-UN			0,2–0,5 0,8–3,8

* 35° ve 55° geometriler tek taraflı dır.

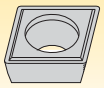
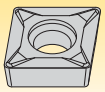
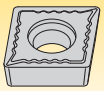
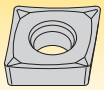
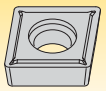
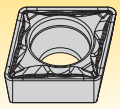
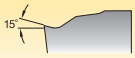
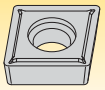
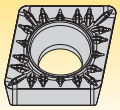
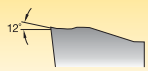
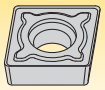
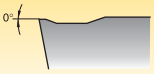
İlerleme oranına ve kesme derinliğine göre geometri seçimi

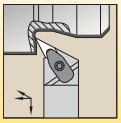
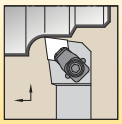
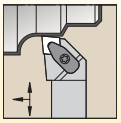
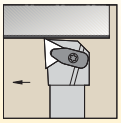
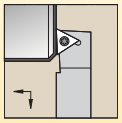
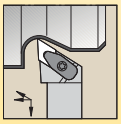
P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı malzemeler
S	Yüksek ısıya dayanıklı alaşımlar
H	Sertleştirilmiş malzemeler

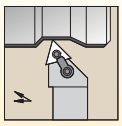
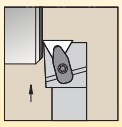
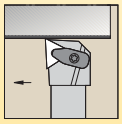
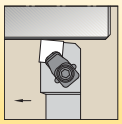
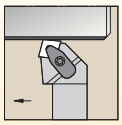
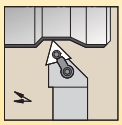
İşleme	Kesici uç tipi uygulaması	Kesici uç geometrisi	Profil	İlerleme oranı; mm: 0,04 / 0,063 / 0,01 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 5,0 — Kesme derinliği; mm: 0,1 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 4,0 / 6,3 / 10,0
Kaba işleme	**MG-RP**			0,2–0,6 1,1–6,4
Ağır kaba işleme	**MG-RN**			0,3–0,63 1,1–5,7
	MG			0,3–0,8 1,1–5,7
	MM-RM Tek taraflı			0,3–1,0 1,3–12,7
	MM-RP Tek taraflı			0,2–1,0 1,3–10,0
	MM-RH Tek taraflı			0,4–1,3 1,3–12,7
Silici hassas son işleme	**MT-FW**			0,08–0,35 0,2–1,5
Silici, orta hassas son işleme	**MT-MW**			0,12–0,5 0,4–3,3

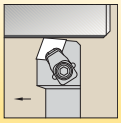
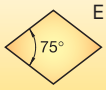
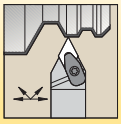
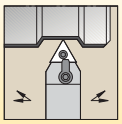
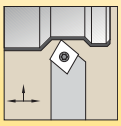
İlerleme oranına ve kesme derinliğine göre geometri seçimi

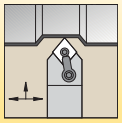
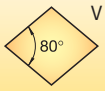
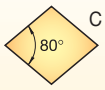
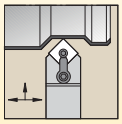
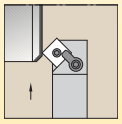
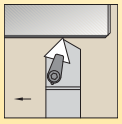
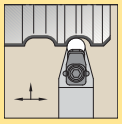
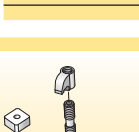
P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı malzemeler
S	Yüksek ısıya dayanıklı alaşımlar
H	Sertleştirilmiş malzemeler

İşleme	Kesici uç tipi uygulaması	Kesici uç geometrisi	Profil	İlerleme oranı; mm: 0,04 / 0,063 / 0,01 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 5,0 Kesme derinliği; mm: 0,1 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 4,0 / 6,3 / 10,0
İnce son işleme	**_GM** Hassas taşlama			0,05–0,2 0,2–1,0
	MT-11			0,08–0,25 0,2–1,3
	.MT-UF			0,05–0,25 0,1–1,3
Hassas son işleme	**GT-HP** Hassas taşlama			0,2–0,4 0,6–2,3
	GT-LF Hassas taşlama			0,2–0,4 0,8–2,3
	MT-FP			0,063–0,25 0,16–1,6
	MT-LF			0,2–0,4 0,8–2,3
Orta işleme	**MT-MP**			0,15–0,4 0,4–2,3
	MT-MF			0,2–0,4 1,1–2,3

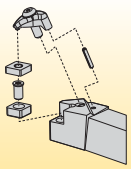
Takım izi	Kesici uç şekli	Bağlama tipi	Tornalama	Profil işleme	Alın tornalama	Dalma	Pah kırma	Sayfa(lar)
117,5° Yaklaşma açısı								
	V 35°	Kenloc™	●	●	●			B151
		Kenclamp™	●		●			B150
107,5° Yaklaşma açısı								
	D 55°	Vida bağlamalı	●	●				B213
		TNT	●	●		●		B151
	V 35°	Vida bağlamalı	●	●				B265
97,5° Yaklaşma açısı								
	E 75°	MTS	●		●			–
95° Yaklaşma açısı								
	C 80°	Kenloc	●	●	●			B62
		Kenclamp	●	●	●			B59
		Kenlever™	●	●	●			B65
		Vida bağlamalı	●	●	●			B180, B193
		MTS	●	●	●			B358
	W 80°	Kenloc	●	●	●			B162
		Kenclamp	●	●	●			B161
		Kenlever	●	●	●			B163
		Vida bağlamalı	●	●	●			B271
		MTS	●	●	●			B369
		Wedgelock™	●	●	●			B162
93° Yaklaşma açısı								
	D 55°	Kenloc	●	●				B86
		Kenclamp	●	●				B85
		Kenlever	●	●				B87
		Vida bağlamalı	●	●				B210
		MTS	●	●				B360
	V 35°	Kenloc	●	●				B151
		Kenclamp	●	●				B149
		Vida bağlamalı	●	●				B267
	T 60°	Wedgelock	●	●				B133

Takım izi	Kesici uç şekli	Bağlama tipi	Tornalama	Profil işleme	Alın tornalama	Dalma	Pah kırma	Sayfa(lar)
90° Yaklaşma açısı								
	C 80°	Vida bağlamalı	●	●	●			B179
	D 55°	Vida bağlamalı	●	●	●			B209
	V 35°	Vida bağlamalı	●	●	●			B266
	T 60°	Kenloc	●	●	●	●		B133
		Kenclamp	●	●	●			B132
		Kenlever	●	●	●			B135
		Vida bağlamalı	●	●	●			B247
		TNT	●	●	●			–
		Wedgelock	●	●	●			B133
85° Yaklaşma açısı								
	S 90°	MTS	●		●			B366
75° Yaklaşma açısı								
	C 80°	Kenloc	●	●	●			B61
		Kenclamp	●	●	●			B58
		Kenlever	●		●			B64
		TNT	●	●				–
		Vida bağlamalı	●		●			B180
		MTS	●					B356
	S 90°	Kenloc	●		●			B108
		Kenclamp	●		●			B105
		Kenlever	●	●	●			B111
		Vida bağlamalı	●	●	●			B233
		MTS	●	●	●			B364
72,5° Yaklaşma açısı								
	V 35°	Kenloc	●	●				B152
		Kenclamp		●				B150
		Vida bağlamalı	●	●				B268

Takım izi	Kesici uç şekli	Bağlama tipi	Tornalama	Profil işleme	Alın tornalama	Dalma	Pah kırma	Sayfa(lar)
70° Yaklaşma açısı								
	 E 75°	**Kenloc™**	●	●				–
63° Yaklaşma açısı								
	 D 55°	**Kenloc**	●	●				B85
62,5° Yaklaşma açısı								
	 D 55°	**Kenloc**	●	●	●			B86
		Vida bağlamalı	●	●	●			B88
		Vida bağlamalı	●	●				B211
60° Yaklaşma açısı								
 	 T 60°	**Kenloc**	●	●	●			B133

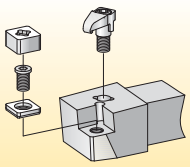
Takım izi	Kesici uç şekli	Bağlama tipi	Tornalama	Profil işleme	Alın tornalama	Dalma	Pah kırma	Sayfa(lar)
50° Yaklaşma açısı								
	 V 80°	**Kenloc**	●	●	●			B63
45° Yaklaşma açısı								
	 C 80°	**Kenloc**	●	●	●			B60
		Kendex™	●	●	●			B66
		Vida bağlamalı	●	●	●			B192
  	 S 90°	**Kenloc**	●	●	●			B109
		Kenclamp	●	●	●			B105
		Kenlever™	●	●	●			B111
		Kendex	●	●	●			–
		Vida bağlamalı	●	●	●			B233
		MTS	●	●	●			B213
	 T 60°	**Vida bağlamalı**	●	●	●			B86
 	 R	**Kenloc**	●	●	●			B95
		Kenclamp	●	●	●			–
		Fix-Perfect™	●	●	●			–
		Vida bağlamalı	●	●	●			B227
		MTS	●	●	●			B365

Bağlama tipleri



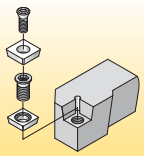
Kenclamp™ tipi

- Kenloc™ Negatif temel şekilli kesici uçlar kullanır.
- Eşsiz çene tasarımı rijit bağlama sağlar.
- Tekrarlanabilir kesici uç hassasiyetini ve yuvada oturmasını sağlar.
- Azalan salınım titreşimi ve gelişmiş takım ömrü.



MST tipi modüler takımlama sistemi

- Tornalama ve profil işleme uygulamalarında seramik kesici uçlar bağlamada kanıtlanmış mükemmel sistem.
- Standart kesici uç ölçüleri kullanır — 80°, 75°, 55°, kare ve üç kenarlı.
- Bu sistem, standart Kendex™ ve Kenloc kesici uçları baglamak için istege baglı donanım kullanımın getirdigi ek çok yönlülügü sağlar.

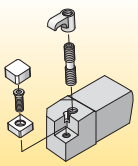


Vida bağlamalı tip

- Vida bağlamalı kesici uçlar için üstten vidalı bağlama.

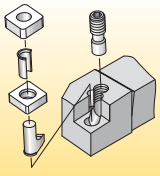
Kenloc™ tipi

- Kenloc™ Negatif temel şekilli kesici uçlar kullanır.
- Kilit pimi ve üst çene rijit bağlama sağlar.
- Mümkün olduğunca çeşitli kesici uç tipleri kullanılabilir.
- Takımlar çeneli veya çenesiz bağlamalı kullanılabilir.



Kendex Stili

- Kendex kesici uçlar kullanır.
- Seramik kesici uçlar için talaş kırıcı seçeneği bulunur.
- Mümkün olduğunca çeşitli kesici uç tipleri kullanılabilir.

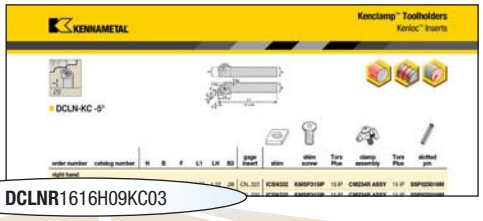


Kenlever™ tipi

- Tornalama ve profil tornalama uygulamalarında seramik kesici uçları bağlamak için kanıtlanmış mükemmel sistem.
- İsteğe bağlı donanım kullanarak Kendex veya Kenloc kesici uçlarda uygulanabilir.

Katalog numaraları nasıl kullanılır ?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.

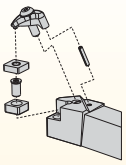


DCLNR1616H09KC03

D

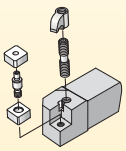
Kesici uç bağlama sistemi

D



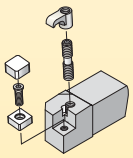
Kenclamp™

M



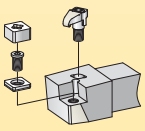
Kenloc™

C



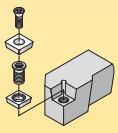
Kendex™

N



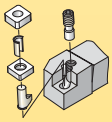
Top Notch™
Profil tornalama

S



Vida bağlamalı

P



Kenlever™

C

Kesici uç şekli

- **A** 85°
- **B** 82°
- **C** 80°
- **D** 55°
- **E** 75°
- **H** 120°
- **K** 55°
- **L** 90°
- **M** 86°
- **O** 135°
- **P** 108°
- **R**
- **S** 90°
- **T** 60°
- **V** 35°
- **W** 80°

L

Takım tipi veya yaklaşma açısı

- **A** 90°
- **B** 15°
- **C** 90°
- **D** 45°
- **E** 60°
- **F** 90°
- **G** 90°
- **H** 107,5°
- **J** 93°
- **K** 75°
- **L** 95°
- **M** 50°
- **P** 107,5°
- **Q** 107,5°
- **R** 75°
- **S** 45°
- **U** 93°
- **V** 72,5°
- **Y** 85°

N

Kesici uç boşluk açısı

- **N** 0°
- **B** 5°
- **C** 11°
- **P** 11°
- **D** 15°
- **E** 20°
- **F** 25°

R

Takım kesme yönü

R =

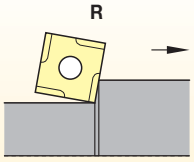
Sağ yönlü

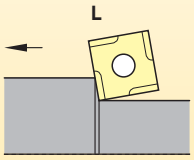
L =

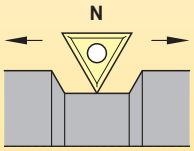
Sol yönlü

N =

Nötr







Ek bilgi

C =

Seramik kesici uç için derin uç yuvası

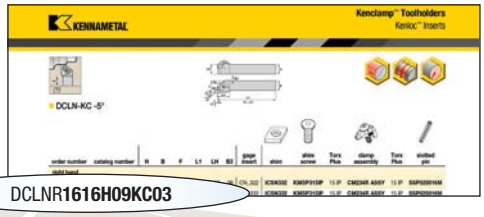
S =

Tek uç yuvalı konumlandırma duvarı

F =

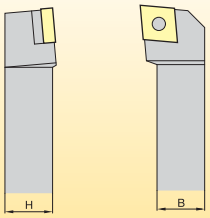
Düz şaft, merkezden kaçık değil

Kullanımı kolay bu rehbere başvurarak isteklerinizi karşılayacak doğru ürünü tanımlayabilirsiniz.



DCLNR**1616H09KC03**

16	16	H	09	KC	03
Şaft ölçüleri		Takım boyu	Kesici uç ölçüsü	Ek bilgi	Kesici uç kalınlığı *(isteğe bağlı)*



Yedinci ve sekizinci pozisyon tutucu kesitini tanımlayan önemli iki basamaklı bir sayıdır.

- "B" genişliğinin veya "H" yüksekliğinin ölçüsü tek rakamlı bir sayıyla tanımlandığında sayının önünde bir 0 (sıfır) eklenerek kullanılır.

Örnek: 8,0mm = 08

L1	ISO
32	A
40	B
50	C
60	D
70	E
80	F
90	G
100	H
110	J
125	K
140	L
150	M
160	N
170	P
180	Q
200	R
250	S
300	T
350	U
400	V
450	W
500	Y
Özel tasarım	X

KC =
Kenclamp™

H4 =
Wedgelock™ bağlama sistemi

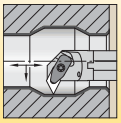
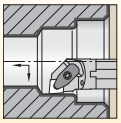
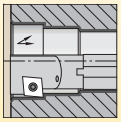
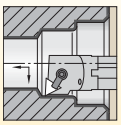
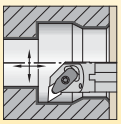
M =
Seramik kesici uçlar ve PcBN kesici uçlar için MTS bağlama sistemi

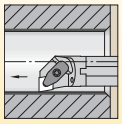
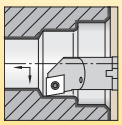
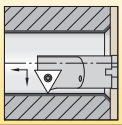
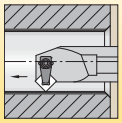
04 = 4,76mm

06 = 6,35mm

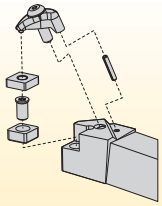
Kesme kenarı uzunluğu L10

H	Altıgen 120°		**C**	Eşkenar dörtgen 80°	
O	Sekizgen 135°		**D**	55°	
P	Beşgen 108°		**E**	75°	
S	Kare 90°		**M**	86°	
T	Üçgen 60°		**V**	35°	
R	Yuvarlak —		**W**	Üç kenarlı 80° büyütülmüş köşe açılarla	
			L	Dikdörtgen 90°	
			A	Paralelkenar 85°	
			B	82°	
			K	55°	

Takım izi	Kesici uç şekli	Bağlama tipi	Delik işleme	Geriye doğru delik işleme	Profil işleme	Sayfa(lar)
117,5° Yaklaşma açısı						
	D 55°	**KenClamp™**	•		•	B89
107,5° Yaklaşma açısı						
	D 55°	**Kenclamp**	•	•	•	B89
		Vida bağlamalı	•	•		B212, B217
	V 35°	**Vida bağlamalı**	•	•	•	B268
95° Yaklaşma açısı						
 	C 80°	**Kenloc™**	•		•	B67
		Kenclamp	•		•	B66
		Vida bağlamalı	•		•	B182, B196
		Kenlever	•		•	B68
		MTS	•		•	B372
	E 75°	**MTS**	•		•	–
	T 60°	**Vida bağlamalı**	•		•	B250
	W 80°	**Kenloc**	•			B164
		Kenclamp	•		•	B163
		Kenlever	•		•	B165
		Vida bağlamalı	•		•	B271
		MTS	•		•	B374
93° Yaklaşma açısı						
 	C 55°	**Kenloc**	•	•	•	B90
		Kenclamp	•	•	•	B90
		Vida bağlamalı	•		•	B212, B217
		MTS	•		•	–
	V 35°	**Kenloc**	•		•	B153
		Kenclamp	•	•		B152
		Vida bağlamalı	•	•	•	B269
	T 60°	**Kendex™**	•		•	B371
	W 80°	**Vida bağlamalı**	•		•	B272

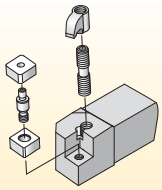
Takım izi	Kesici uç şekli	Bağlama tipi	Delik işleme	Geriye doğru delik işleme	Profil işleme	Sayfa(lar)
90° Yaklaşma açısı						
 	C 80°	**Vida bağlamalı**	•		•	B182, B194
	T 60°	**Kenloc**	•			B137
		Kenclamp	•		•	B137
		Kenlever	•		•	B138
		Kendex	•		•	–
		Vida bağlamalı	•			B248, B257
75° Yaklaşma açısı						
	C 80°	**Vida bağlamalı**	•			B195
	S 90°	**Kenloc**	•			B114
		Kenclamp	•			B113
		Kenlever	•			B114
		Kendex	•			–
		Vida bağlamalı	•			B233
	T 60°	**MTS**	•			–
		Kendex	•			–
60° Yaklaşma açısı						
	T 60°	**Vida bağlamalı**	•		•	–
45° Yaklaşma açısı						
	S 90°	**MTS**	•			B373

Bağlama tipleri



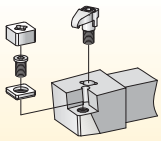
Kenclamp™ tipi

- Kenloc™ Negatif temel şekilli kesici uçlar kullanır.
- Eşsiz çene tasarımı rijit bağlama sağlar.
- Tekrarlanabilir kesici uç hassasiyetini ve yuvada oturmasını sağlar.
- Azalan salınım titreşimi ve gelişmiş takım ömrü.



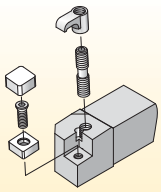
Kenloc™ tipi

- Kenloc™ Negatif temel şekilli kesici uçlar kullanır.
- Kilit pimi ve üst çene rijit bağlama sağlar.
- Mümkün olduğunca çeşitli kesici uç tipleri kullanılabilir.
- Takımlar çeneli veya çenesiz bağlamalı kullanılabilir.



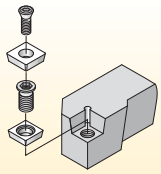
MTS tipi

- Tornalama ve profil tornalama uygulamalarında seramik kesici uçlar bağlamada kanıtlanmış mükemmel sistem.
- Standart kesici uç ölçüleri kullanır — 80°, 75°, 55°, kare ve üç kenarlı.
- Bu sistem, standart Kendex™ ve Kenloc™ kesici uçları bağlamak için isteğe bağlı donanım kullanımının getirdigi ek çok yönlülüğünü sağlar.



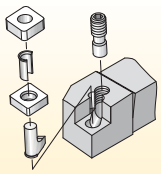
Kendex™ tipi

- Kendex kesici uçlar kullanır.
- Seramik kesici uçlar için talaş kırıcı seçeneği bulunur.
- Mümkün olduğunca çeşitli kesici uç tipleri kullanılabilir.



Vida bağlamalı tip

- Vida bağlamalı kesici uçlar için üstten vidalı bağlama.

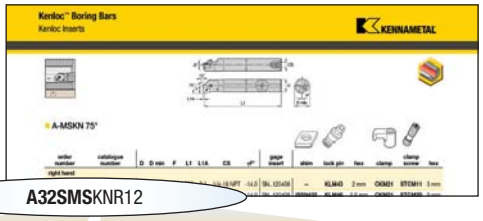


Kenlever™ tipi

- Tornalama ve profil tornalama uygulamalarında seramik kesici uçları bağlamak için kanıtlanmış mükemmel sistem.
- İsteğe bağlı donanım kullanarak Kendex veya Kenloc kesici uçlarda uygulanabilir.

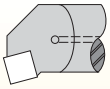
Katalog numaraları nasıl kullanılır ?

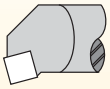
Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.

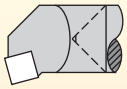


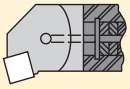
A32SMSKNR12

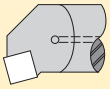
A
Delik işleme barasının tipi

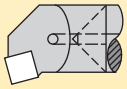
A

İçten soğutmalı çelik delik işleme barası

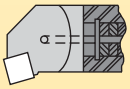
S

Dıştan soğutmalı çelik delik işleme barası

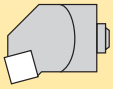
C

Karbür delik işleme barası

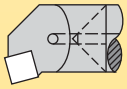
D

İçten soğutmalı, titreşim sönümleme düzenekli delik işleme barası

D

İçten soğutmalı, ayarlanabilir delik işleme barası

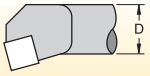
E

İçten soğutmalı karbür delik işleme barası

B

Titreşim sönümleme düzeneği

H

Birbiriyle değiştirilebilir kafa

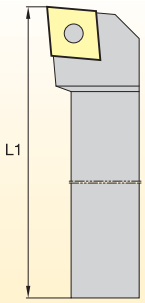
L

İçten soğutmalı, güçlü metal delik işleme barası

32
Delik işleme barasının çapı



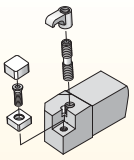
Metrik:
İki rakamlı bir sayı delik işleme barının çapını mm cinsinden belirtir. Çap tek rakamlı bir sayıyla tanımlanmışsa, sayının önünde bir 0 (sıfır) eklenerek kullanılır.
Örnek: 8mm = 08

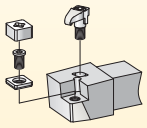
S
Delik işleme barasının boyu

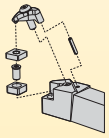


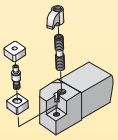
L1		ISO
32	=	A
40	=	B
50	=	C
60	=	D
70	=	E
80	=	F
90	=	G
100	=	H
110	=	J
125	=	K
140	=	L
150	=	M
160	=	N
170	=	P
180	=	Q
200	=	R
250	=	S
300	=	T
350	=	U
400	=	V
450	=	W
500	=	Y
Özel uzunluğu	=	X

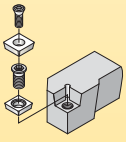
M
Kesici uç bağlama sistemi

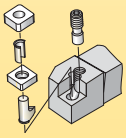
C

Kendex™

N

Top Notch™
Profil tornalama

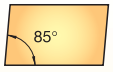
D

Kenclamp™

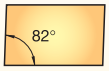
M

Kenloc™

S

Vida bağlamalı

P

Kenlever™

S
Kesici uç şekli

A


B


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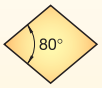
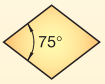
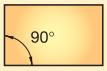


D


E


H


K


L


M


O


P


R

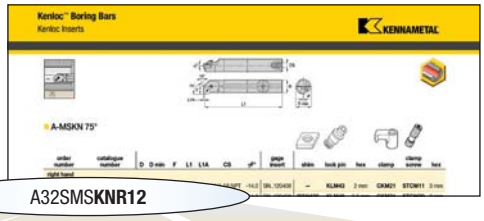

S


T


V


W


Kullanımı kolay bu rehbere başvurarak isteklerinizi karşılayacak doğru ürünü tanımlayabilirsiniz.

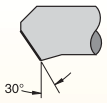


A32SMS**KNR12**

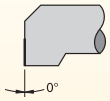
K

Delik işleme barası tipi veya Yaklaşma açısı

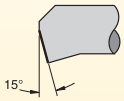
E



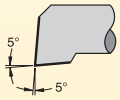
F



K

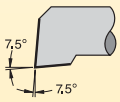


L

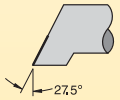


(E tipi kesici uçlar)

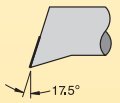
L



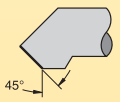
P



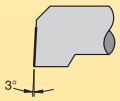
Q



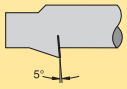
S



U



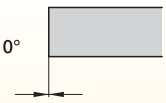
X



N

Kesici uç boşluk açısı

N 0°



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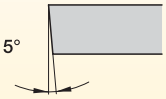

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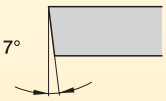
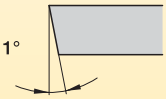


P 11°



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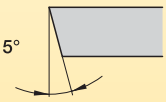

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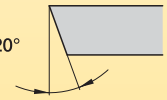
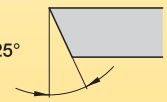


F 25°

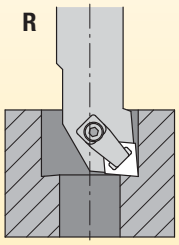


R

Takım kesme yönü

R =

Sağ yönlü delik işleme barası



L =

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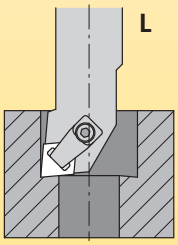


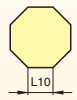
12

Kesici uç ölçüsü kesme kenarı uzunluğu L10

H



O



P



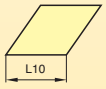
S



T



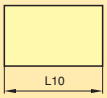
CDE MV



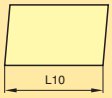
W



L



A B K



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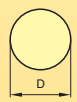


Ek bilgi

M... =

Seramik kesici uçlar ve PcBN kesici uçlar için TNT/MTS bağlama sistemleri

D =

Çift uç yuvalı

AP5 =

Eksenel pozitif

KC =

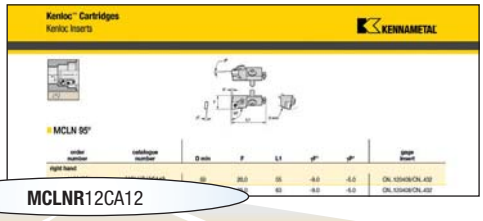
Kenclamp™

+ =

Kesici uç kanlınlığı

Katalog numaraları nasıl kullanılır ?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.

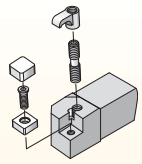


MCLNR12CA12

M

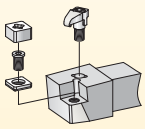
Kesici uç bağlama sistemi

C



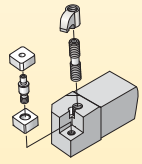
Kendex™

N



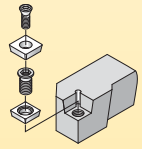
Top Notch™
Profil tornalama

M



Kenloc™

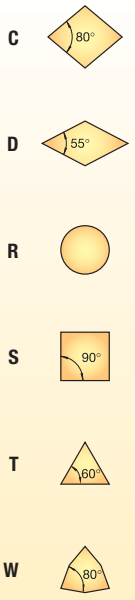
S



Vida bağlamalı

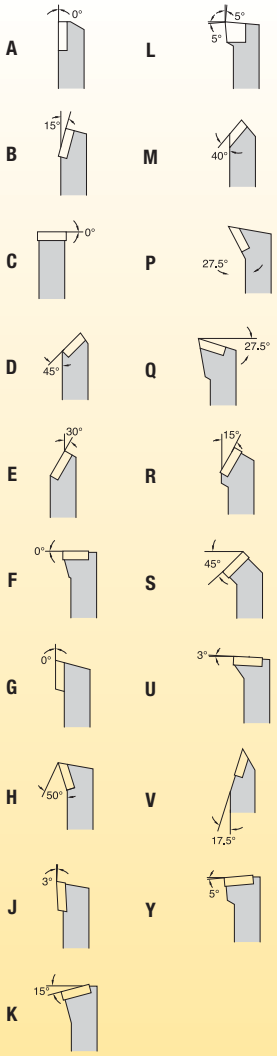
C

Kesici uç şekli



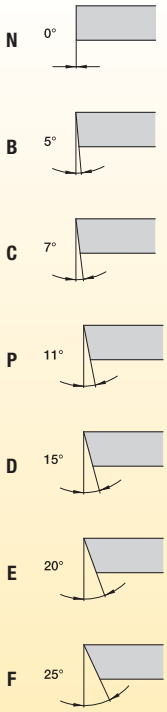
L

Takım tipi veya yaklaşma açısı



N

Kesici uç boşluk açısı

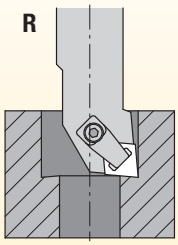


R

Takım kesme yönü

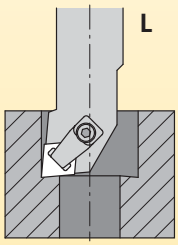
R =

Sağ yönlü delik işleme barası

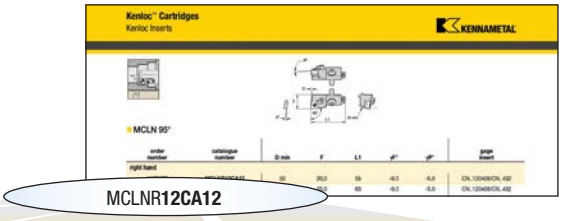


L =

Sol yönlü delik işleme barası



Kullanımı kolay bu rehbere başvurarak isteklerinizi karşılayacak doğru ürünü tanımlayabilirsiniz.

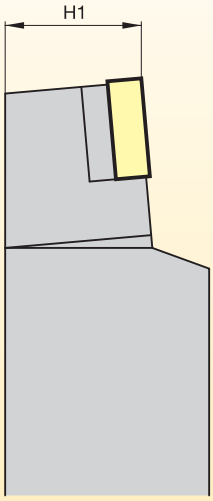


MCLNR**12CA12**

12

Kartuş ölçüsü

H1 = Kartuşun kesme kenarı yüksekliği, mm. olarak



C

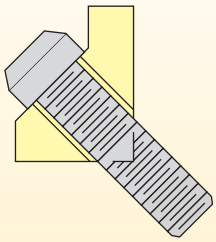
Kartuş tanımlama kodu

C = Kartuş

A

Kartuş montaj tasarımı

A = Açısal aks. ISO 5611



12

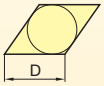
Kesici uç ölçüsü

Kesme kenarı uzunluğu D

C



D



R



S



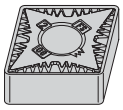
T

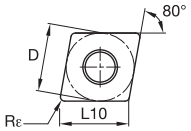


W



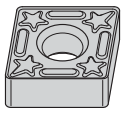
● İlk tercih
○ Alternatif tercih

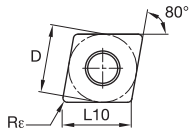




CNGG-FS

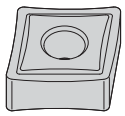
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
				P ●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
				M								○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
				K ○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
				N																							●	●	●	●	●	●	●	
				S																							●	●	●	●	●	●		
				H																														
CNGG120401FS	12,70	12,90	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120402FS	12,70	12,90	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
CNGG120404FS	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
CNGG120408FS	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–

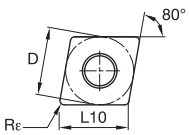




CNGG-LF

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGG120401LF	12,70	12,90	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120402LF	12,70	12,90	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120404LF	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120408LF	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
CNGG120412LF	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–



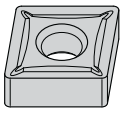


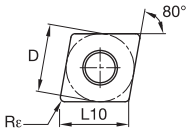
CNGP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNGP120401	12,70	12,90	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
CNGP120402	12,70	12,90	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
CNGP120404	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	●	–
CNGP120408	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	●	–
CNGP120412	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–
CNGP120416	12,70	12,90	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

NOT: P bağlama için değiştirilebilir kesici uçlar.

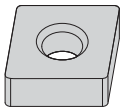
● İlk tercih
○ Alternatif tercih

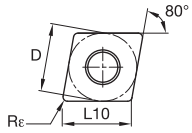




CNGP-K

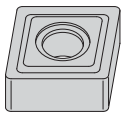
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
				P ●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
				M								○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
				K ○	○	○	○	○	○					●	●	●	●	●	●								●	●	●	●	●	●		●
				N																							●	●	●	●	●	●	●	
				S																							●	●	●	●	●	●		
				H																														
CNGP120408K	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNGP160612K	15,88	16,12	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

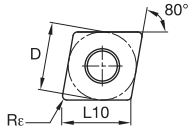




CNMA

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMA120404	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA120408	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMA120412	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA120416	12,70	12,90	1,6	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA160608	15,88	16,12	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA160612	15,88	16,12	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA160616	15,88	16,12	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA190612	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMA190616	19,05	19,34	1,6	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





CNMG

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404B	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMG120408	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–
CNMG120412	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMG190612	19,05	19,34	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
CNMG190616	19,05	19,34	1,6	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG250924	25,40	25,79	2,4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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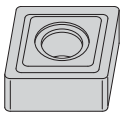
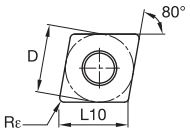
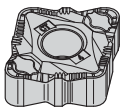
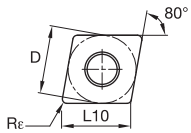




CNMG-33

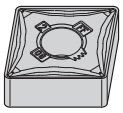
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG12040833	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

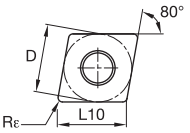




CNMG-CT

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120408CT	12,70	12,90	0,8	–	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–
CNMG120412CT	12,70	12,90	1,2	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416CT	12,70	12,90	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





CNMG-FF

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090304FF	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG090308FF	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG120404FF	12,70	12,90	0,4	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120408FF	12,70	12,90	0,8	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●

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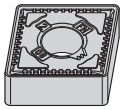
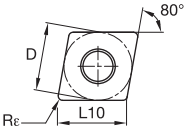
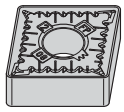


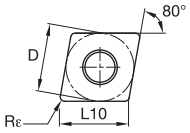


CNMG-FN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090304FN	9,53	9,67	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG090308FN	9,53	9,67	0,8	–	–	●	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120402FN	12,70	12,90	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120404FN	12,70	12,90	0,4	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG120408FN	12,70	12,90	0,8	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG120412FN	12,70	12,90	1,2	–	–	●	–	●	●	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CNMG120416FN	12,70	12,90	1,6	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

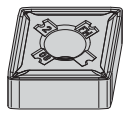
NOT: P tipi bağlama için değiştirilebilir kesici uçlar.

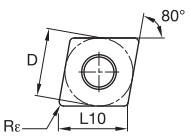




CNMG-FP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404FP	12,70	12,90	0,4	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120408FP	12,70	12,90	0,8	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120412FP	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–





CNMG-FW

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404FW	12,70	12,90	0,4	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120408FW	12,70	12,90	0,8	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
CNMG120412FW	12,70	12,90	1,2	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●

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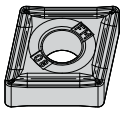
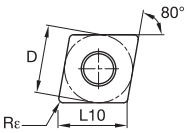
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

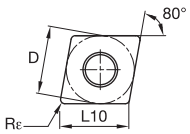




CNMG-FM

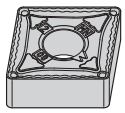
ISO Katalog numarası	D	L10	Rε
CNMG120412FM	12,70	12,90	1,2

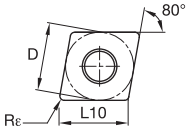




CNMG-LF

ISO Katalog numarası	D	L10	Rε
CNMG120402LF	12,70	12,90	0,2
CNMG120404LF	12,70	12,90	0,4
CNMG120408LF	12,70	12,90	0,8



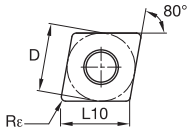


CNMG-MN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090304MN	9,53	9,67	0,4	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG090308MN	9,53	9,67	0,8	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG090312MN	9,53	9,67	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120404MN	12,70	12,90	0,4	–	–	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408MN	12,70	12,90	0,8	●	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG120412MN	12,70	12,90	1,2	–	●	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416MN	12,70	12,90	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608MN	15,88	16,12	0,8	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612MN	15,88	16,12	1,2	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616MN	15,88	16,12	1,6	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190608MN	19,05	19,34	0,8	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612MN	19,05	19,34	1,2	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190616MN	19,05	19,34	1,6	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190624MN	19,05	19,34	2,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

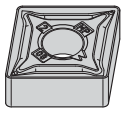
● İlk tercih
○ Alternatif tercih

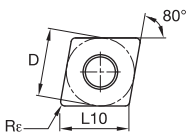




CNMU-MN

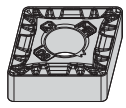
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
CNMU120612MN	12,70	12,90	1,2	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMU120616MN	12,70	12,90	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

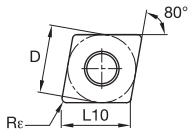




CNMG-MP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG090308MP	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	●	–	●	–	–	–
CNMG120404MP	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
CNMG120408MP	12,70	12,90	0,8	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	●	●	●	–	–
CNMG120412MP	12,70	12,90	1,2	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	●	●	–	–	–
CNMG120416MP	12,70	12,90	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG160608MP	15,88	16,12	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	●	–	●	–	–	–
CNMG160612MP	15,88	16,12	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	●	●	●	–	–	–
CNMG160616MP	15,88	16,12	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–
CNMG190608MP	19,05	19,34	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	●	–	–	–
CNMG190612MP	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	●	●	–	–	–
CNMG190616MP	19,05	19,34	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–





CNMG-MR

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404MR	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408MR	12,70	12,90	0,8	–	–	●	–	●	–	●	–	–	●	–	–	●	–	–	–	●	●	●	●	–	●	●	–	–	●	–	–	–	–	–
CNMG120412MR	12,70	12,90	1,2	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	●	●	●	–	●	●	–	–	●	–	–	–	–	–
CNMG120416MR	12,70	12,90	1,6	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608MR	15,88	16,12	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612MR	15,88	16,12	1,2	–	–	●	–	●	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616MR	15,88	16,12	1,6	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612MR	19,05	19,34	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
CNMG190616MR	19,05	19,34	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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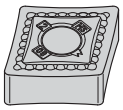

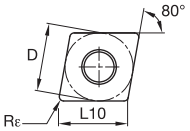

CNMG-MS

| | | |

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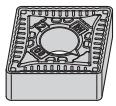
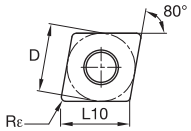
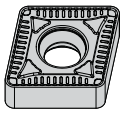
○ Alternatif tercih

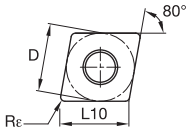




CNMG-RN

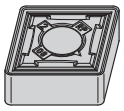
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
CNMG120408RN	12,70	12,90	0,8	–	●	●	●	●	●	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120412RN	12,70	12,90	1,2	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG120416RN	12,70	12,90	1,6	–	–	●	●	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608RN	15,88	16,12	0,8	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612RN	15,88	16,12	1,2	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG160616RN	15,88	16,12	1,6	–	–	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG190608RN	19,05	19,34	0,8	–	–	●	–	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612RN	19,05	19,34	1,2	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190616RN	19,05	19,34	1,6	–	–	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CNMG190624RN	19,05	19,34	2,4	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

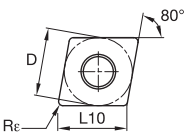




CNMU-RN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMU120412RN	12,70	12,90	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





CNMG-RP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404RP	12,70	12,90	0,4	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	●	●	–	–
CNMG120408RP	12,70	12,90	0,8	●	●	●	●	●	●	●	●	–	●	–	●	●	●	●	●	●	●	●	●	●	●	–	–	●	●	●	●	–	–
CNMG120412RP	12,70	12,90	1,2	–	●	●	●	●	●	●	●	●	●	–	●	●	●	●	●	●	–	●	●	●	●	●	–	–	●	●	●	●	–	–
CNMG120416RP	12,70	12,90	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	●	●	–	●	–	–	–	●	●	●	–	–	–
CNMG160608RP	15,88	16,12	0,8	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
CNMG160612RP	15,88	16,12	1,2	–	–	●	●	●	●	–	●	●	●	–	●	–	●	●	●	●	–	●	●	●	●	●	–	–	●	●	●	●	–	–
CNMG160616RP	15,88	16,12	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	●	–	–	●	●	–	–	●	–	–	–	●	–	●	–	–
CNMG190612RP	19,05	19,34	1,2	–	–	●	–	●	●	–	●	●	–	–	–	–	●	–	–	–	–	●	●	–	●	–	–	–	●	●	●	●	–	–
CNMG190616RP	19,05	19,34	1,6	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	●	●	–	–	●	●	–	–	–	–

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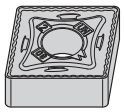
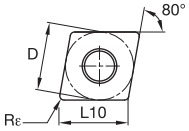
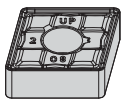
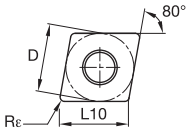




CNMG-UN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
				P	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
				M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
				K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
				N																							●	●	●	●	●	●	●	
				S																							●	●	●	●	●	●		
				H																														
CNMG120404UN	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120408UN	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120412UN	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416UN	12,70	12,90	1,6	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160608UN	15,88	16,12	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612UN	15,88	16,12	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616UN	15,88	16,12	1,6	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190608UN	19,05	19,34	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612UN	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190616UN	19,05	19,34	1,6	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

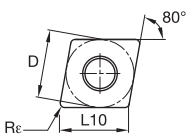




CNMG-UP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120404UP	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	●	–	–	–
CNMG120408UP	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
CNMG120412UP	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–
CNMG160608UP	15,88	16,12	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–
CNMG160612UP	15,88	16,12	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	●	–	–	–	–	–
CNMG190612UP	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–
CNMG190616UP	19,05	19,34	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–





CNMM-MR

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM120408MR	12,70	12,90	0,8	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160612MR	15,88	16,12	1,2	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160616MR	15,88	16,12	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190616MR	19,05	19,34	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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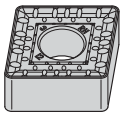
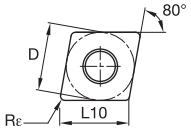
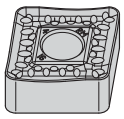
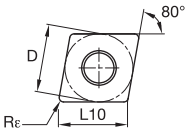




CNMM-RH

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
				P	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
				M								○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
				K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
				N																							●	●	●	●	●	●	●		
				S																							●	●	●	●	●	●			
				H																														
CNMM190612RH	19,05	19,34	1,2	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190616RH	19,05	19,34	1,6	–	–	●	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190624RH	19,05	19,34	2,4	–	–	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RH	25,40	25,79	2,4	–	–	–	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





CNMM-RM

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM120408RM	12,70	12,90	0,8	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM120412RM	12,70	12,90	1,2	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160612RM	15,88	16,12	1,2	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160616RM	15,88	16,12	1,6	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160624RM	15,88	16,12	2,4	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190612RM	19,05	19,34	1,2	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190616RM	19,05	19,34	1,6	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190624RM	19,05	19,34	2,4	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RM	25,40	25,79	2,4	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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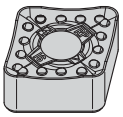
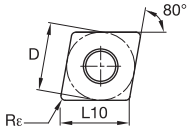
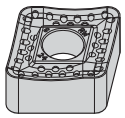
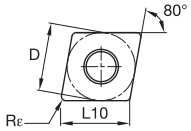




CNMM-RP

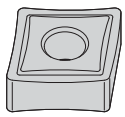
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
				P		●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
				M									○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
				K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
				N																							●	●	●	●	●	●	●		
				S																							●	●	●	●	●	●			
				H																														
CNMM120408RP	12,70	12,90	0,8	–	●	–	●	●	–	–	–	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
CNMM120412RP	12,70	12,90	1,2	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM120416RP	12,70	12,90	1,6	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160608RP	15,88	16,12	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160612RP	15,88	16,12	1,2	–	–	●	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMM160616RP	15,88	16,12	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–
CNMM160624RP	15,88	16,12	2,4	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190612RP	19,05	19,34	1,2	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190616RP	19,05	19,34	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMM190624RP	19,05	19,34	2,4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RP	25,40	25,79	2,4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

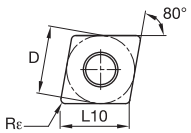




CNMM-RW

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMM190624RW	19,05	19,34	2,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMM250924RW	25,40	25,79	2,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





CNMP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMP120404	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–
CNMP120408	12,70	12,90	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–
CNMP120412	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CNMP160608	15,88	16,12	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMP190612	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

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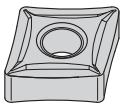
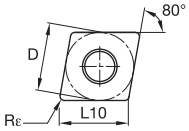
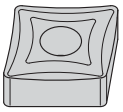
○ Alternatif tercih

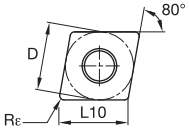




CNMP-K

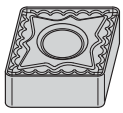
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMP120404K	12,70	12,90	0,4	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMP120408K	12,70	12,90	0,8	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

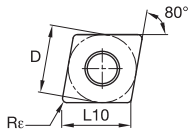




CNMS

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMS120408	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
CNMS160608	15,88	16,12	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
CNMS190608	19,05	19,34	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
CNMS190612	19,05	19,34	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

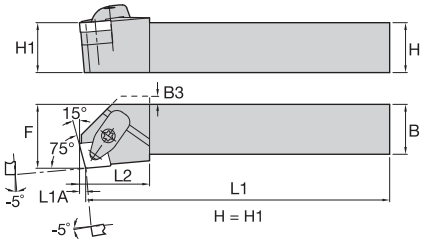


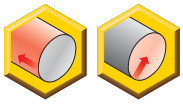


CNMG-MG

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
CNMG120408MG	12,70	12,90	0,8	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CNMG120412MG	12,70	12,90	1,2	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG120416MG	12,70	12,90	1,6	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160612MG	15,88	16,12	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG160616MG	15,88	16,12	1,6	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CNMG190612MG	19,05	19,34	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–







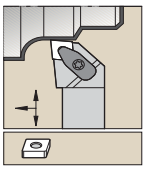
DCKN-KC 75°

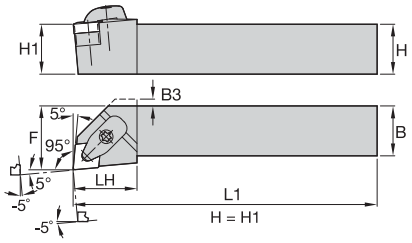






Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	B3	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü																
2273083	**DCKNR2020K12KC04**	20	20	25,0	125	32,0	3,1	6,0	CN..120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875200	**DCKNR2525M12KC04**	25	25	32,0	150	32,0	3,1	–	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
2273084	**DCKNR3225P12KC04**	32	25	32,0	170	32,0	3,1	–	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273085	**DCKNR3232P16KC06**	32	32	40,0	170	32,0	3,8	–	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
Sol yönlü																
2273087	**DCKNL2020K12KC04**	20	20	25,0	125	32,0	3,1	6,0	CN..120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875204	**DCKNL2525M12KC04**	25	25	32,0	150	32,0	3,1	–	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
2273088	**DCKNL3225P12KC04**	32	25	32,0	170	32,0	3,1	–	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**





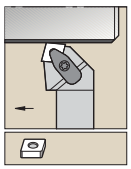
DCLN-KC 95°

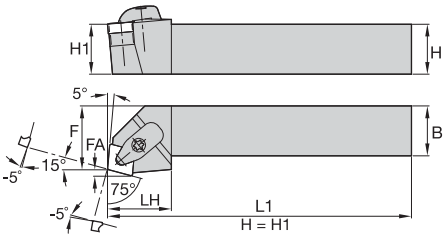


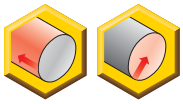




Sipariş numarası	Katalog numarası	H	B	F	L1	LH	B3	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü															
2417296	**DCLNR1616H09KC03**	16	16	20,0	100	30,0	6,0	CN..090308	**ICSN332**	**KMSP315IP**	9 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1875199	**DCLNR2020K12KC04**	20	20	25,0	125	32,0	4,0	CN..120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875193	**DCLNR2525M12KC04**	25	25	32,0	150	32,0	—	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875212	**DCLNR2525M16KC06**	25	25	32,0	150	33,0	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
1875223	**DCLNR3225P12KC04**	32	25	32,0	170	32,0	—	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875232	**DCLNR3225P16KC06**	32	25	32,0	170	33,0	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
1875224	**DCLNR3232P16KC06**	32	32	40,0	170	33,0	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
2273091	**DCLNR3232P19KC06**	32	32	40,0	170	40,0	—	CN..190612	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**	**KLM68L25IP**
2273092	**DCLNR4040S19KC06**	40	40	50,0	250	40,0	—	CN..190612	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**	**KLM68L25IP**
Sol yönlü															
1875194	**DCLNL2020K12KC04**	20	20	25,0	125	32,0	4,0	CN..120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875196	**DCLNL2525M12KC04**	25	25	32,0	150	32,0	—	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875205	**DCLNL2525M16KC06**	25	25	32,0	150	33,0	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
1875231	**DCLNL3225P12KC04**	32	25	32,0	170	32,0	—	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875230	**DCLNL3225P16KC06**	32	25	32,0	170	33,0	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
1875225	**DCLNL3232P16KC06**	32	32	40,0	170	33,0	—	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
2273093	**DCLNL3232P19KC06**	32	32	40,0	170	40,0	—	CN..190612	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**	**KLM68L25IP**
2273094	**DCLNL4040S19KC06**	40	40	50,0	250	40,0	—	CN..190612	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**	**KLM68L25IP**





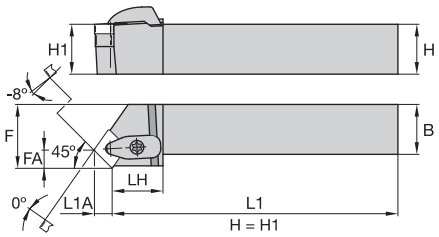


DCRN-KC 75°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü															
1875226	**DCRNR2020K12KC04**	20	20	25,0	125	32,0	3,3	CN..120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875201	**DCRNR2525M12KC04**	25	25	32,0	150	32,0	3,3	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273095	**DCRNR3225P12KC04**	32	25	32,0	170	32,0	3,3	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273097	**DCRNR3232P19KC06**	32	32	40,0	170	38,0	4,9	CN..190612	**ICSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**	**KLM68L25IP**
Sol yönlü															
1875206	**DCRNL2525M12KC04**	25	25	32,0	150	32,0	3,3	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273099	**DCRNL3232P16KC06**	32	32	40,0	170	38,0	4,1	CN..160612	**ICSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**



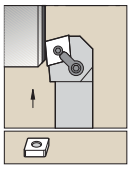


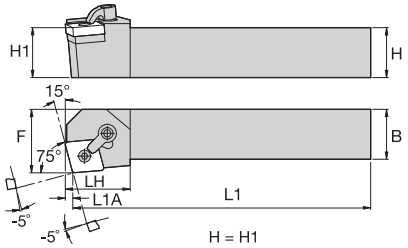


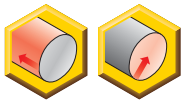
DCSN-KC 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	L1A	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü																
2273101	**DCSNR2020K12KC04**	20	20	25,0	125	35,0	8,2	8,5	CN..120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
2273102	**DCSNR2525M12KC04**	25	25	32,0	150	35,0	8,2	8,5	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
Sol yönlü																
2273104	**DCSNL2525M12KC04**	25	25	32,0	150	35,0	8,2	8,5	CN..120408	**ICSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**



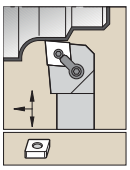


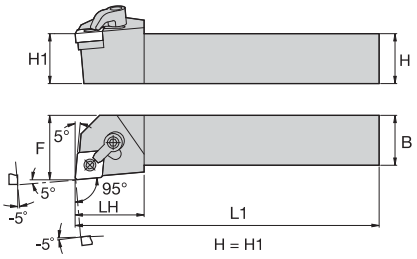


MCKN 75°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü														
1102236	**MCKNR2525M12**	25	25	32,0	150	32,0	3,1	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102237	**MCKNR3225P12**	32	25	32,0	170	32,0	3,1	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102240	**MCKNR3225P16**	32	25	32,0	170	33,0	3,6	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
Sol yönlü														
1102729	**MCKNL2525M12**	25	25	32,0	150	32,0	3,1	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1099253	**MCKNL3225P16**	32	25	32,0	170	33,0	3,6	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102728	**MCKNL3232P19**	32	32	40,0	170	38,0	4,4	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm



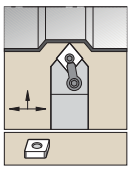


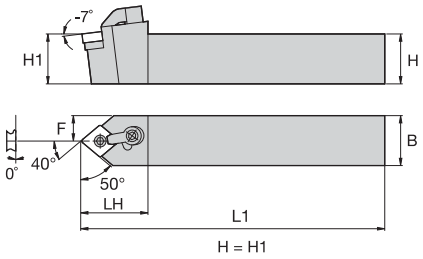


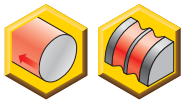
MCLN 95°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1100939	**MCLNR1616H09**	16	16	20,0	100	25,0	CN..090308	–	**KLM33**	2 mm	**CKM6**	**STCM5**	2.5 mm
1101710	**MCLNR1616H12**	16	16	20,0	100	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1099132	**MCLNR2020K09**	20	20	25,0	125	25,0	CN..090308	**ICSN332**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1099133	**MCLNR2020K12**	20	20	25,0	125	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1100943	**MCLNR2525M09**	25	25	32,0	150	25,0	CN..090308	**ICSN332**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1101711	**MCLNR2525M12**	25	25	32,0	150	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101641	**MCLNR2525M16**	25	25	32,0	150	33,0	CNMA160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1101704	**MCLNR2525M19**	25	25	32,0	150	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1101712	**MCLNR3225P12**	32	25	32,0	170	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101642	**MCLNR3225P16**	32	25	32,0	170	33,0	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1101705	**MCLNR3225P19**	32	25	32,0	170	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
3595785	**MCLNR3232P12**	32	32	40,5	171	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
3595787	**MCLNR3232P16**	32	32	40,5	171	33,0	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1101706	**MCLNR3232P19**	32	32	40,0	170	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1101707	**MCLNR4040R19**	40	40	50,0	200	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
Sol yönlü													
1100938	**MCLNL1616H09**	16	16	20,0	100	25,0	CN..090308	–	**KLM33**	2 mm	**CKM6**	**STCM5**	2.5 mm
1102539	**MCLNL1616H12**	16	16	20,0	100	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102540	**MCLNL2020K12**	20	20	25,0	125	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102541	**MCLNL2525M12**	25	25	32,0	150	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102440	**MCLNL2525M16**	25	25	32,0	150	33,0	CNMA160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102534	**MCLNL2525M19**	25	25	32,0	150	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1102542	**MCLNL3225P12**	32	25	32,0	170	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102442	**MCLNL3225P16**	32	25	32,0	170	33,0	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102535	**MCLNL3225P19**	32	25	32,0	170	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
3595786	**MCLNL3232P12**	32	32	40,5	171	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
3595788	**MCLNL3232P16**	32	32	40,5	171	33,0	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102536	**MCLNL3232P19**	32	32	40,0	170	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1102537	**MCLNL4040R19**	40	40	50,0	200	38,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm



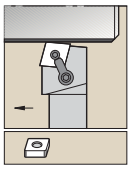


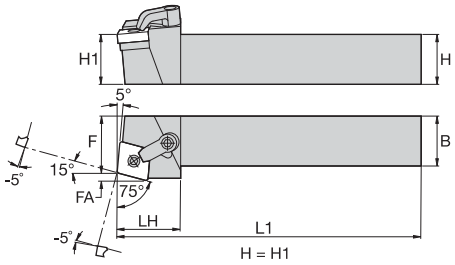


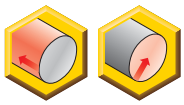
MCMN 50°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
1101708	**MCMNN2020K12**	61	20	10,0	125	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101709	**MCMNN2525M12**	86	25	12,9	150	32,0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102538	**MCMNN3225P16**	94	32	12,9	170	38,0	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102239	**MCMNN4040R19**	117	40	20,0	200	42,0	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm



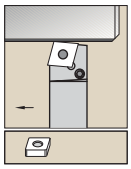


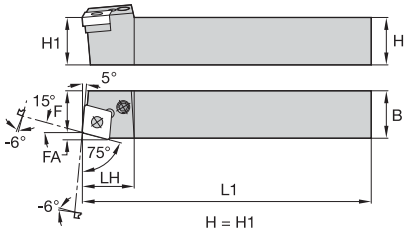


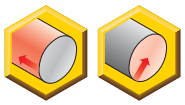
MCRN 75°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü														
1101638	**MCRNR2020K12**	20	20	25,0	125	32,0	3,3	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101639	**MCRNR2525M12**	25	25	32,0	150	32,0	3,3	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101640	**MCRNR3225P12**	32	25	32,0	170	32,0	3,3	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102732	**MCRNR3232P16**	32	32	32,0	170	33,0	4,2	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1101643	**MCRNR3232P19**	32	32	40,0	170	38,0	4,6	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
Sol yönlü														
1102437	**MCRNL2525M12**	25	25	32,0	150	32,0	3,3	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102439	**MCRNL3225P12**	32	25	32,0	170	32,0	3,3	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102241	**MCRNL3232P16**	32	32	32,0	170	33,0	4,2	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102443	**MCRNL3232P19**	32	32	40,0	170	38,0	4,6	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm



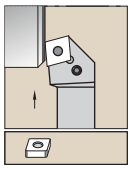


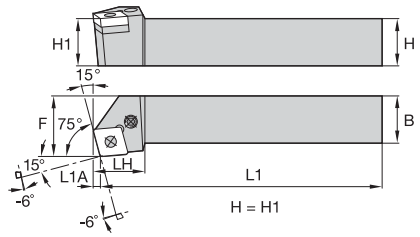


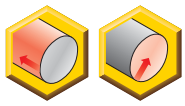
PCBN 75°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü														
1244779	**PCBNR2525M12**	25	25	22,0	150	26,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244635	**PCBNR2525M16**	25	25	22,0	150	28,0	4,2	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244636	**PCBNR3225P12**	32	25	22,0	170	28,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244637	**PCBNR3225P16**	32	25	22,0	170	28,0	4,2	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244638	**PCBNR3232P16**	32	32	27,0	170	38,0	4,2	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244795	**PCBNR3232P19**	32	32	27,0	170	38,0	4,6	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1192373	**PCBNR4040S19**	40	40	35,0	250	38,0	4,6	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
Sol yönlü														
1244630	**PCBNL2020K12**	20	20	17,0	125	26,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244859	**PCBNL2525M12**	25	25	22,0	150	26,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244631	**PCBNL2525M16**	25	25	22,0	150	28,0	4,2	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244794	**PCBNL3232P16**	32	32	27,0	170	38,0	4,2	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244633	**PCBNL3232P19**	32	32	27,0	170	38,0	4,6	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1192372	**PCBNL4040S19**	40	40	35,0	250	38,0	4,6	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP



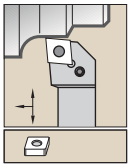


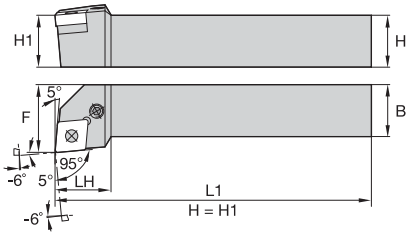


PCKN 75°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü														
1244649	**PCKNR2020K12**	20	20	25,0	125	23,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244797	**PCKNR2525M12**	25	25	32,0	150	23,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244775	**PCKNR2525M16**	25	25	32,0	150	30,0	3,8	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244650	**PCKNR3225P12**	32	25	32,0	170	26,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244776	**PCKNR3225P16**	32	25	32,0	170	30,0	3,8	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244798	**PCKNR3232P19**	32	32	40,0	170	37,5	4,6	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
Sol yönlü														
1244646	**PCKNL2020K12**	20	20	25,0	125	23,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244780	**PCKNL2525M12**	25	25	32,0	150	23,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244647	**PCKNL3225P12**	32	25	32,0	170	26,0	3,1	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244777	**PCKNL3225P16**	32	25	32,0	170	30,0	3,8	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244648	**PCKNL3232P19**	32	32	40,0	170	37,5	4,6	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP



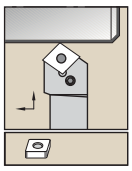


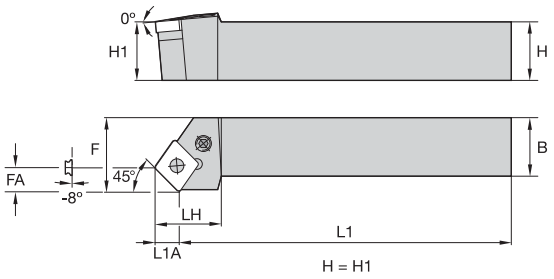


PCLN 95°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü													
1244809	**PCLNR1616H12**	16	16	20,0	100	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244810	**PCLNR2020K12**	20	20	25,0	125	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1108097	**PCLNR2525M12**	25	25	32,0	150	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1192378	**PCLNR2525M16**	25	25	32,0	150	28,0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244652	**PCLNR2525M19**	25	25	32,0	150	36,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244811	**PCLNR3225P12**	32	25	32,0	170	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244812	**PCLNR3225P16**	32	25	32,0	170	38,0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244653	**PCLNR3225P19**	32	25	32,0	170	38,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1236864	**PCLNR3232P16**	32	32	40,0	170	36,0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244813	**PCLNR3232P19**	32	32	40,0	170	36,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1192379	**PCLNR4040S19**	40	40	50,0	250	36,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
Sol yönlü													
1244799	**PCLNL1616H12**	16	16	20,0	100	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1156962	**PCLNL2020K12**	20	20	25,0	125	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1192375	**PCLNL2525M12**	25	25	32,0	150	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1192376	**PCLNL2525M16**	25	25	32,0	150	28,0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244800	**PCLNL2525M19**	25	25	32,0	150	36,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244858	**PCLNL3225P12**	32	25	32,0	170	26,0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244802	**PCLNL3225P16**	32	25	32,0	170	38,0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244803	**PCLNL3225P19**	32	25	32,0	170	38,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244804	**PCLNL3232P16**	32	32	40,0	170	36,0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244805	**PCLNL3232P19**	32	32	40,0	170	36,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1192377	**PCLNL4040S19**	40	40	50,0	250	36,0	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP





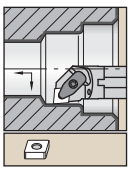


PCSN 45°

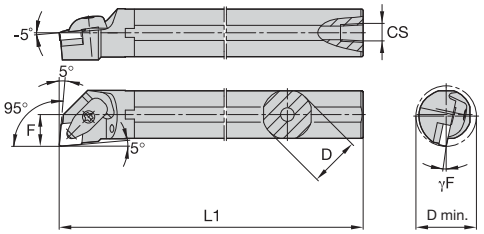


Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	L1A	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü															
1244656	**PCSNR2020K12**	20	20	25,0	125	26,0	8,3	8,5	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244818	**PCSNR2525M12**	25	25	32,0	150	28,0	8,3	8,5	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244657	**PCSNR3225P12**	32	25	32,0	170	29,0	8,3	8,5	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244819	**PCSNR3232P19**	32	32	40,0	170	37,5	12,5	12,7	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
Sol yönlü															
1244654	**PCSNL2020K12**	20	20	25,0	125	26,0	8,3	8,5	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244655	**PCSNL2525M12**	25	25	32,0	150	28,0	8,3	8,5	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1284109	**PCSNL3225P12**	32	25	32,0	170	29,0	8,3	8,5	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244817	**PCSNL3232P19**	32	32	40,0	170	37,5	12,5	12,7	CN..190612	**512.123**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP

Kenclamp™ Delik işleme baraları



İçten soğutmalı çelik şaft.

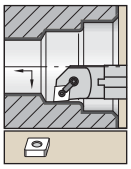




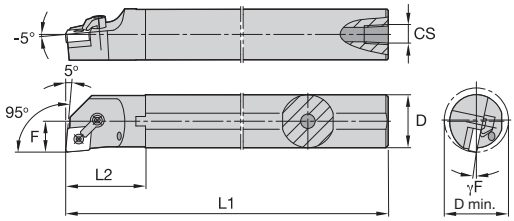
A-DCLN-KC 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Yarıklı pim	Torx Plus
Sağ yönlü														
2441867	**A25RDCLNR12KC04**	25	32,0	17,0	200	1/4-18 NPT	-12.0	CN.120408	–	–	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441931	**A32SDCLNR12KC04**	32	40,0	22,0	250	1/4-18 NPT	-12.0	CN.120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441933	**A40TDCLNR12KC04**	40	50,0	27,0	300	1/4-18 NPT	-9.0	CN..120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
Sol yönlü														
2441930	**A25RDCLNL12KC04**	25	32,0	17,0	200	1/4-18 NPT	-12.0	CN.120408	–	–	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441932	**A32SDCLNL12KC04**	32	40,0	22,0	250	1/4-18 NPT	-12.0	CN.120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441934	**A40TDCLNL12KC04**	40	50,0	27,0	300	1/4-18 NPT	-9.0	CN.120408	**ICSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441938	**A40TDCLNL16KC06**	40	50,0	27,0	300	1/4-18 NPT	-12.0	CN..160612	**ICSN533**	**KMSP515IP**	15 IP	**CM209R ASSY**	**SSP025018M**	15 IP



İçten soğutmalı çelik şaft.

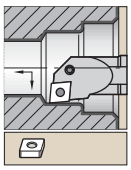




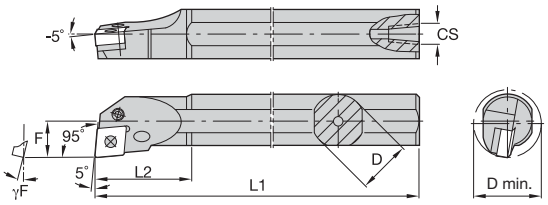
A-MCLN 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	CS	γF°	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü															
1098767	**A25RMCLNR09**	25	32,0	17,0	200	40,0	1/4-18 NPT	-12.0	CN..090308	**–**	**KLM33**	2 mm	**CKM6**	**STCM5**	2.5 mm
1098088	**A25RMCLNR12**	25	32,0	17,0	200	33,0	1/4-18 NPT	-12.0	CN..120408	**–**	**KLM43**	2 mm	**CKM21**	**STCM11**	3 mm
1098090	**A32SMCLNR12**	32	40,0	22,0	250	–	1/4-18 NPT	-12.0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098092	**A40TMCLNR12**	40	50,0	27,0	300	–	1/4-18 NPT	-12.0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098096	**A40TMCLNR16**	40	50,0	27,0	300	–	1/4-18 NPT	-11.0	CN..160612	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1098094	**A50UMCLNR12**	50	63,0	35,0	350	–	1/4-18 NPT	-12.0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098098	**A50UMCLNR16**	50	63,0	35,0	350	–	1/4-18 NPT	-12.0	CN..160608	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1098100	**A50UMCLNR19**	50	63,0	35,0	350	–	1/4-18 NPT	-12.0	CN..190608	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
Sol yönlü															
1098089	**A25RMCLNL12**	25	32,0	17,0	200	33,0	1/4-18 NPT	-12.0	CN..120408	**–**	**KLM43**	2 mm	**CKM21**	**STCM11**	3 mm
1098091	**A32SMCLNL12**	32	40,0	22,0	250	–	1/4-18 NPT	-12.0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098093	**A40TMCLNL12**	40	50,0	27,0	300	–	1/4-18 NPT	-12.0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098097	**A40TMCLNL16**	40	50,0	27,0	300	–	1/4-18 NPT	-11.0	CN..160608	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1098095	**A50UMCLNL12**	50	63,0	35,0	350	–	1/4-18 NPT	-7.0	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098099	**A50UMCLNL16**	50	63,0	35,0	350	–	1/4-18 NPT	-12.0	CN..160608	**ICSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1098101	**A50UMCLNL19**	50	63,0	35,0	350	–	1/4-18 NPT	-12.0	CN..190608	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm



İçten soğutmalı çelik şaft.



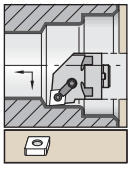


A-PCLN 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	CS	γF°	Ayar ucu	Altlık	Altlık pimi	Yarıklı pim	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü															
2447150	**A25TPCLNR12**	25	32,0	17,0	300	40	1/4-18 NPT	-12.0	CN..120408	–	–	–	**511.022**	**514.122**	10 IP
2447152	**A32UPCLNR12**	32	40,0	22,0	350	50	1/4-18 NPT	-10.0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
2447476	**A32UPCLNR16**	32	50,0	22,0	350	50	1/4-18 NPT	-10.0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
2447533	**A40VPCLNR12**	40	50,0	27,0	400	55	1/4-18 NPT	-10.0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
2447478	**A40VPCLNR16**	40	50,0	27,0	400	55	1/4-18 NPT	-11.0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
Sol yönlü															
2447151	**A25TPCLNL12**	25	32,0	17,0	300	40	1/4-18 NPT	-12.0	CN..120408	–	–	–	**511.022**	**514.122**	10 IP
2447473	**A32UPCLNL12**	32	40,0	22,0	350	50	1/4-18 NPT	-10.0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
2447534	**A40VPCLNL12**	40	50,0	27,0	400	55	1/4-18 NPT	-10.0	CN..120408	**512.112**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
2447479	**A40VPCLNL16**	40	50,0	27,0	400	55	1/4-18 NPT	-11.0	CN..160612	**512.117**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP

Kenloc™ Delik işleme kafaları



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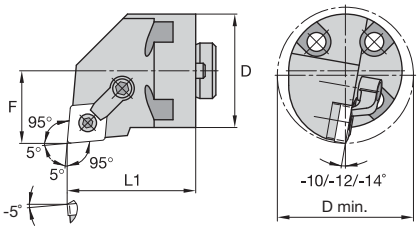
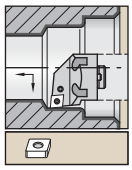


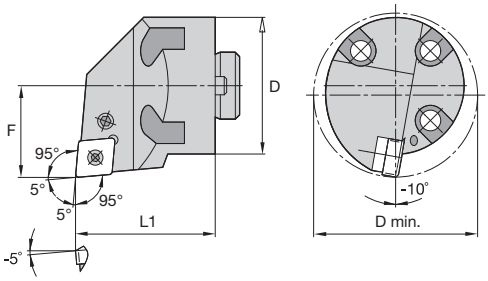
H-MCLN 95°



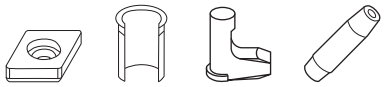
Sipariş numarası	Katalog numarası	D	D min.	F	L1	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü												
3612156	**H32MCLNR12**	32	40,0	22,0	41	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
3612178	**H50MCLNR12**	50	63,0	35,0	41	CN..120408	**ICSN432**	**KLM46**	2.5 mm	**CKM20**	**STCM20**	3 mm
1099102	**H50MCLNR19**	50	63,0	35,0	41	CN..190612	**ICSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm



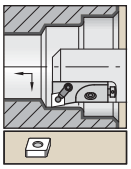
İçten soğutmalı.

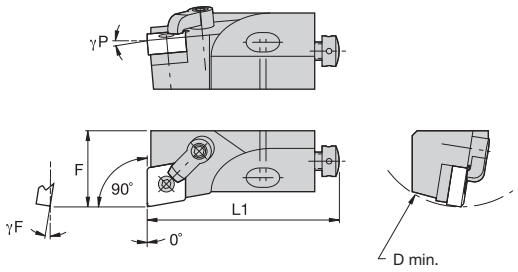


H-PCLN 95°



Sipariş numarası	Katalog numarası	D	D min	F	L1	Ayar ucu	Altlık	Altlık pimi	Mafsallı levye	Baskı pimi	Levye vidası	Altıgen
Sağ yönlü												
1861493	**H32PCLNR12**	32	40,0	22,0	41	CN..120408	**512.112**	**513.023**	**514.123**	**515.018**	**514.123**	15 IP
1861500	**H40PCLNR12**	40	50,0	27,0	41	CN..120408	**512.112**	**513.023**	**514.123**	**515.018**	**514.123**	15 IP
1861517	**H50PCLNR12**	50	63,0	35,0	41	CN..120408	**512.112**	**513.023**	**514.123**	**515.018**	**514.123**	15 IP
Sol yönlü												
1861501	**H40PCLNL12**	40	50,0	27,0	41	CN..120408	**512.112**	**513.023**	**514.123**	**515.018**	**514.123**	15 IP
1861518	**H50PCLNL12**	50	63,0	35,0	41	CN..120408	**512.112**	**513.023**	**514.123**	**515.018**	**514.123**	15 IP

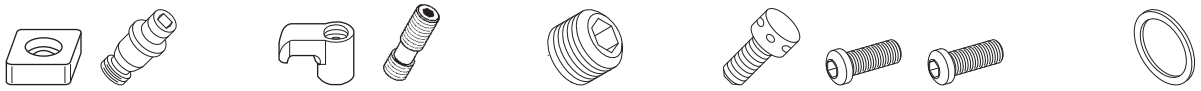




MCFN 90°

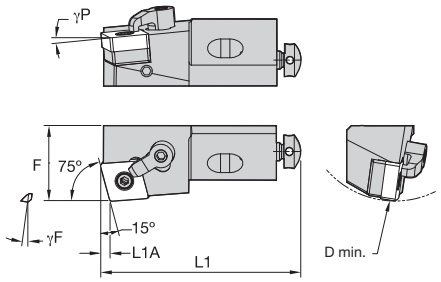
Sipariş numarası	Katalog numarası	D min	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
3331146	**MCFNR10CA09**	40	14,0	50	-9.0	-9.0	CN..090308/CN..322
3346236	**MCFNR12CA12**	50	20,0	55	-9.0	-5.0	CN..120408/CN..432
2074433	**MCFNR16CA12**	60	25,0	63	-9.0	-5.0	CN..120408/CN..432
3330195	**MCFNR20CA12**	70	25,0	70	-9.0	-5.0	CN..120408\CN..432
Sol yönlü							
3331145	**MCFNL10CA09**	40	14,0	50	-9.0	-9.0	CN..090308/CN..322
1906272	**MCFNL12CA12**	50	20,0	55	-9.0	-5.0	CN..120408/CN..432

Yedek parçalar



D min.	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Altıgen	Yaylı halka
40	**–**	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**
60	**ICSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**
70	**ICSN432**	**KLM46**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**





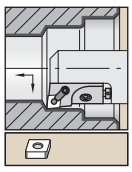
MCKN 75°

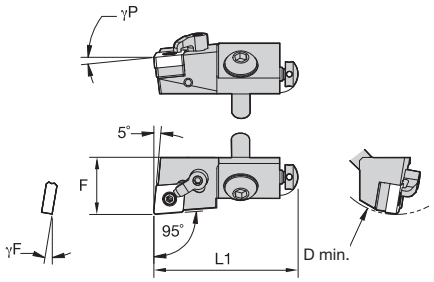
Sipariş numarası	Katalog numarası	D min.	F	L1	L1A	γF°	γP°	Ayar ucu
Sağ yönlü								
3346238	**MCKNR12CA12**	50	20,0	55	3	-9.0	-5.0	CN..120408/CN..432
3330222	**MCKNR16CA12**	60	25,0	63	3	-9.0	-5.0	CN..120408/CN..432
Sol yönlü								
3346237	**MCKNL12CA12**	50	20,0	55	3	-9.0	-5.0	CN..120408/CN..432

Yedek parçalar



D min.	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	–	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**ICSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**





MCLN 95°

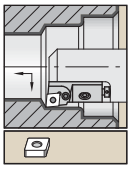
Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1100493	**MCLNR12CA12**	50	20,0	55	-9.0	-5.0	CN..120408/CN..432
1282100	**MCLNR16CA12**	60	25,0	63	-9.0	-5.0	CN..120408/CN..432
3330197	**MCLNR20CA12**	70	25,0	70	-9.0	-5.0	CN..120408/CN..432
3332803	**MCLNR25CA12**	100	32,0	100	-9.0	-5.0	CN..120408/CN..432
3332804	**MCLNR25CA16**	100	32,0	100	-9.0	-5.0	CN..160612/CN..543
3332805	**MCLNR25CA19**	100	32,0	100	-9.0	-5.0	CN..190612/CN..643
Sol yönlü							
2077947	**MCLNL12CA12**	50	20,0	55	-9.0	-5.0	CN..120408/CN..432
3330273	**MCLNL16CA12**	60	25,0	63	-9.0	-5.0	CN..120408/CN..432
3330196	**MCLNL20CA12**	70	25,0	70	-9.0	-5.0	CN..120408/CN..432
3332362	**MCLNL25CA19**	100	32,0	100	-9.0	-5.0	CN..190612/CN..643

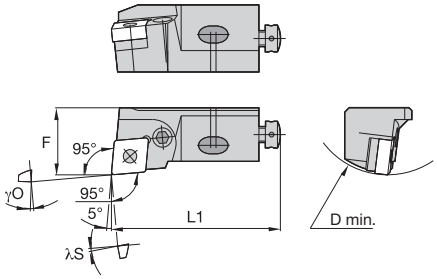
NOT: Seçilen D min.ve kesici uç ölçüsüne göre yedek parçalar seçilir.

Yedek parçalar



D min.	Altlık	Kilitleme pimi	Altıgen	Çene	Dış kesici uç vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Altı-gen	Yaylı halka
50	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	**–**	4 mm	**CSWM 060 050**
60	**ICSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	**–**	5 mm	**CSWM 080 050**
70	**ICSN432**	**KLM46**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	**–**	5 mm	**CSWM 080 050**
100	**ICSN633**	**KLM68**	4 mm	**CKM35**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM32**	**–**	**MS364**	8 mm	**CSWM 100 080**
100	**ICSN432**	**KLM46**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**MS364**	8 mm	**CSWM 100 080**
100	**ICSN533**	**KLM58**	3 mm	**CKM41**	**STCM20**	3 mm	**KUAM26**	3 mm	**KUAM32**	**–**	**MS364**	8 mm	**CSWM 100 080**
100	**ICSN633**	**KLM68**	4 mm	**CKM35**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM32**	**–**	**MS364**	8 mm	**CSWM 100 080**





PCLN 95°

Sipariş numarası	Katalog numarası	D min.	F	L1	λS°	γO°	Ayar ucu
Sağ yönlü							
1244444	**PCLNR12CA-12**	50	20,0	55	-6.0	-9.0	CN..120408/CN..432
1244496	**PCLNR16CA-12**	60	25,0	63	-6.0	-7.0	CN..120408/CN..432
Sol yönlü							
1244443	**PCLNL16CA-12**	60	25,0	63	-6.0	-7.0	CN..120408/CN..432

Yedek parçalar



D min.	Altlık	Altlık pimi	Mafsallı levye	Levye vidası	Levye vidası anahtar ölçüsü	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	–	–	**511.022**	**514.122**	10 IP	**KUAM28**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**512.112**	**513.023**	**511.023**	**514.123**	15 IP	**KUAM23**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

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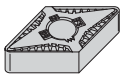
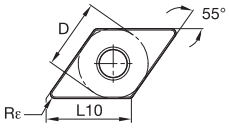
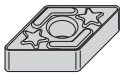
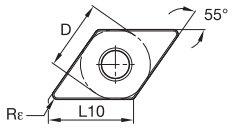




DNGG-FS

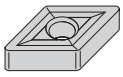
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNGG110402FS	9,53	11,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG110404FS	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG110408FS	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150401FS	12,70	15,50	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150402FS	12,70	15,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG150404FS	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–
DNGG150604FS	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150408FS	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
DNGG150608FS	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNGG150412FS	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

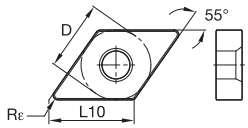




DNGG-LF

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNGG150402LF	12,70	15,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG150404LF	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNGG150408LF	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–





DNGP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNGP150401	12,70	15,50	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
DNGP150402	12,70	15,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
DNGP150404	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–
DNGP150604	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	●	–
DNGP150408	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–
DNGP150608	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–

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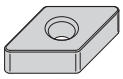
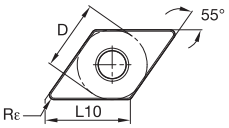
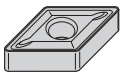
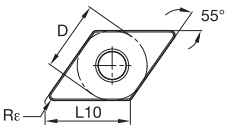




DNMA

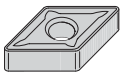
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		P
				M								○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
				K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
				N																							●	●	●	●	●	●	●	●	
				S																							●	●	●	●	●	●	●		
				H																														
DNMA110408	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMA150408	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMA150608	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMA150412	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMA150612	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMA150416	12,70	15,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

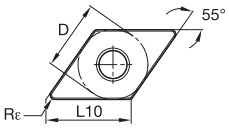




DNMG

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG150408B	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–





DNMG-33

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG11040433	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG11040833	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG15060433	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG15060833	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

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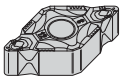
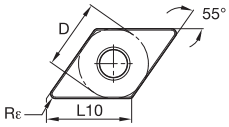
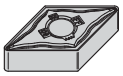
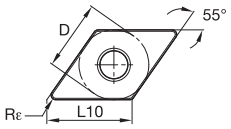




DNMG-CT

				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
DNMG110412CT	9,53	11,62	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110408CT	9,53	11,63	0,8	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150604CT	12,70	15,50	0,3	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404CT	12,70	15,50	0,4	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
DNMG150408CT	12,70	15,50	0,8	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DNMG150608CT	12,70	15,50	0,8	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412CT	12,70	15,50	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DNMG150612CT	12,70	15,50	1,2	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–





DNMG-FF

				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
DNMG110404FF	9,53	11,63	0,4	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG110408FF	9,53	11,63	0,8	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
DNMG150404FF	12,70	15,50	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150604FF	12,70	15,50	0,4	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●
DNMG150408FF	12,70	15,50	0,8	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150608FF	12,70	15,50	0,8	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●

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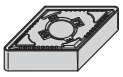
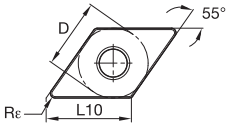
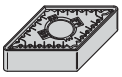
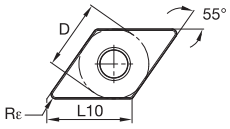




DNMG-FN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
				M								○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
				K	○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
				N																							●	●	●	●	●	●	●		
				S																							●	●	●	●	●	●			
				H																														
DNMG110404FN	9,53	11,63	0,4	–	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG110408FN	9,53	11,63	0,8	–	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG110412FN	9,53	11,63	1,2	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404FN	12,70	15,50	0,4	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150604FN	12,70	15,50	0,4	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150408FN	12,70	15,50	0,8	–	●	●	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●
DNMG150608FN	12,70	15,50	0,8	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150412FN	12,70	15,50	1,2	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150612FN	12,70	15,50	1,2	–	●	●	●	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●





DNMG-FP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FP	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●	–	–	●	–	●	–	–	–
DNMG110408FP	9,53	11,63	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–	–	●	–	●	–	–	●
DNMG150404FP	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150604FP	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150408FP	12,70	15,50	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150608FP	12,70	15,50	0,8	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150412FP	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNMG150612FP	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●

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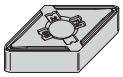
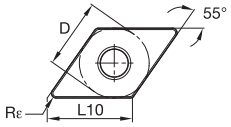
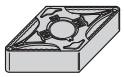


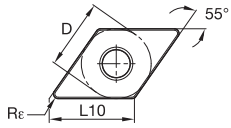


DNMG-FW

P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404FW	9,53	11,63	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
DNMG110408FW	9,53	11,63	0,8	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●
DNMG150404FW	12,70	15,50	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
DNMG150408FW	12,70	15,50	0,4	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
DNMG150604FW	12,70	15,50	0,4	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNMG150608FW	12,70	15,50	0,4	–	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–





DNMG-MN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110404MN	9,53	11,63	0,4	–	●	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110408MN	9,53	11,63	0,8	–	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110412MN	9,53	11,63	1,2	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404MN	12,70	15,50	0,4	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150604MN	12,70	15,50	0,4	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408MN	12,70	15,50	0,8	●	–	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150608MN	12,70	15,50	0,8	●	–	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412MN	12,70	15,50	1,2	–	●	●	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150612MN	12,70	15,50	1,2	–	–	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616MN	12,70	15,50	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG190612MN	15,88	19,38	1,2	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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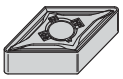
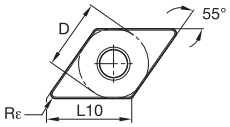
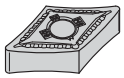
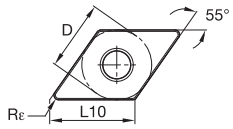




DNMG-MP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408MP	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–
DNMG110412MP	9,53	11,63	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150404MP	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	●	–	●	–	–	–
DNMG150604MP	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	●	–	●	–	–	–
DNMG150408MP	12,70	15,50	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	●	–	●	–	–	–
DNMG150608MP	12,70	15,50	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	–	●	–	–	–
DNMG150412MP	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–
DNMG150612MP	12,70	15,50	1,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	●	●	–	–	–





DNMG-MS

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408MS	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
DNMG150401MS	12,70	15,50	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DNMG150402MS	12,70	15,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
DNMG150404MS	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
DNMG150604MS	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
DNMG150408MS	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
DNMG150608MS	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
DNMG150412MS	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
DNMG150612MS	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–

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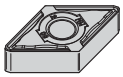

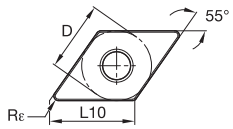

DNMG-MW

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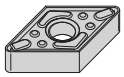
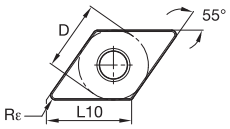
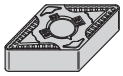
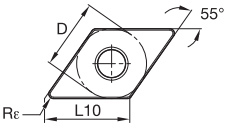




DNMG-P

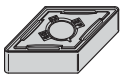
				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
DNMG150404P	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150408P	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150608P	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

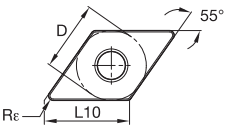




DNMG-RN

				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
DNMG150408RN	12,70	15,50	0,8	–	–	●	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150608RN	12,70	15,50	0,8	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412RN	12,70	15,50	1,2	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150612RN	12,70	15,50	1,2	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
DNMG150416RN	12,70	15,50	1,6	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616RN	12,70	15,50	1,6	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG190608RN	15,88	19,38	0,8	–	–	●	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG190612RN	15,88	19,38	1,2	–	–	●	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





DNMG-RP

				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
DNMG110408RP	9,53	11,63	0,8	–	–	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG110412RP	9,53	11,63	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408RP	12,70	15,50	0,8	–	–	●	●	●	●	–	–	–	–	–	●	–	–	●	●	–	●	●	●	–	●	–	–	–	●	●	●	●	–	–
DNMG150608RP	12,70	15,50	0,8	–	●	●	●	●	●	–	●	–	–	–	–	●	–	–	●	–	●	●	●	–	–	–	–	–	●	●	●	●	–	–
DNMG150412RP	12,70	15,50	1,2	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–	–
DNMG150612RP	12,70	15,50	1,2	–	–	●	●	●	●	–	–	–	–	–	●	–	●	●	●	–	–	–	●	●	–	–	–	–	●	●	–	–	–	–
DNMG150416RP	12,70	15,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
DNMG150616RP	12,70	15,50	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

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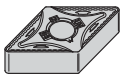
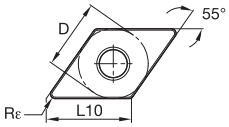
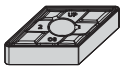


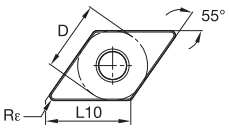


DNMG-UN

P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

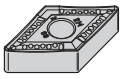
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408UN	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG110412UN	9,53	11,63	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150408UN	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150608UN	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150412UN	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150612UN	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150416UN	12,70	15,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMG150616UN	12,70	15,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–

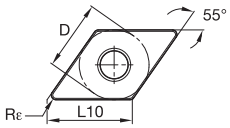




DNMG-UP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMG110408UP	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
DNMG150404UP	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–
DNMG150604UP	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
DNMG150408UP	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	●	–	●	–	–	–
DNMG150608UP	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	●	–	–	–





DNMM-RM

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMM150408RM	12,70	15,50	0,8	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150608RM	12,70	15,50	0,8	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150412RM	12,70	15,50	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150612RM	12,70	15,50	1,2	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150616RM	12,70	15,50	1,6	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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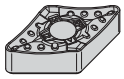
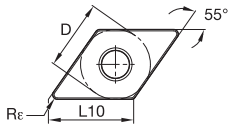
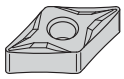
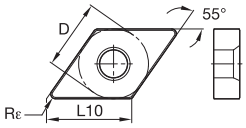




DNMM-RP

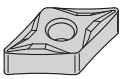
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
DNMM150608RP	12,70	15,50	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150612RP	12,70	15,50	1,2	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMM150616RP	12,70	15,50	1,6	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

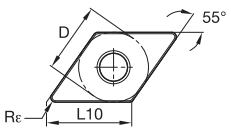




DNMP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMP150404	12,70	15,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DNMP150408	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DNMP150412	12,70	15,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

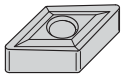


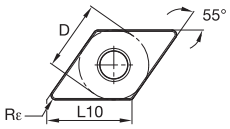


DNMP-K

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
DNMP110408K	9,53	11,63	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150404K	12,70	15,50	0,4	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150604K	12,70	15,50	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150408K	12,70	15,50	0,8	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150608K	12,70	15,50	0,8	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DNMP150412K	12,70	15,50	1,2	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

● İlk tercih
○ Alternatif tercih





DNMS

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
				P		●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
				M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
				K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
				N																								●	●	●	●	●	●	●	
				S																								●	●	●	●	●	●		
				H																														
DNMS150408	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

Mobil uygulamalar

Kennametal mobil uygulaması, iPhone® ve Android™ gibi her iki işlemciden birine sahip cihazlarda ürün bilgisine kolay erişim sağlar. Burada özellikle bir dizi önemli işlevleri vurguladık...

Bunu kapsayan bir uygulama var.

KESME HIZLARI VE İLERLEMELER

Metal işleme takımları için kesme hızları ve ilerlemeleri ile ilgili bilgiye erişim.

ÜRÜN BULUNABİLİRLİĞİ

Ürünlerin global kullanılabilirliğini kontrol edilir. Konnect giriş bilgilerinizi sağlayarak mevcut miktarlar görüntülenir.

HESAPLAYICILAR

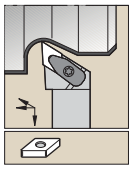
Frezeleme ve delme uygulamaları için işleme hesaplayıcılarımızdan yararlanılır.

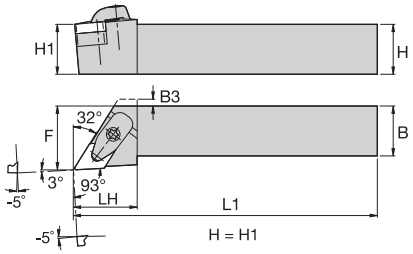
Kesici uç paketindeki barkodun taranması ile takım ömrü, iş süreci ve talaş kontrolüne yönelik en verimli kesme değerlerine ve koşullarına erişim olanağı sağlanır.



NOT: Uygulama şu anda sadece İngilizce dil sürümünde bulunmaktadır. Bu uygulamanın farklı dillere çevrilerek gelecekteki sürümler ile sunulması planlanmıştır.

Google play | Available on the App Store

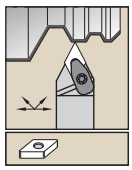


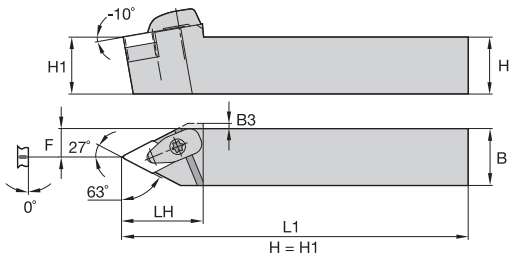


DDJN-KC 93°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	B3	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü															
2273105	**DDJNR2020K11KC04**	20	20	25,0	125	30,0	2,0	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1875197	**DDJNR2020K15KC06**	20	20	25,0	125	32,0	4,0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273106	**DDJNR2525M11KC04**	25	25	32,0	150	30,0	–	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1875191	**DDJNR2525M15KC06**	25	25	32,0	150	32,0	–	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875208	**DDJNR3225P15KC06**	32	25	32,0	170	32,0	–	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875227	**DDJNR3232P15KC06**	32	32	40,0	170	32,0	–	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
Sol yönlü															
2273107	**DDJNL2020K11KC04**	20	20	25,0	125	30,0	2,0	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1875198	**DDJNL2020K15KC06**	20	20	25,0	125	32,0	4,0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273108	**DDJNL2525M11KC04**	25	25	32,0	150	30,0	–	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1875192	**DDJNL2525M15KC06**	25	25	32,0	150	32,0	–	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875207	**DDJNL3225P15KC06**	32	25	32,0	170	32,0	–	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875209	**DDJNL3232P15KC06**	32	32	40,0	171	32,0	–	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**

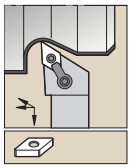


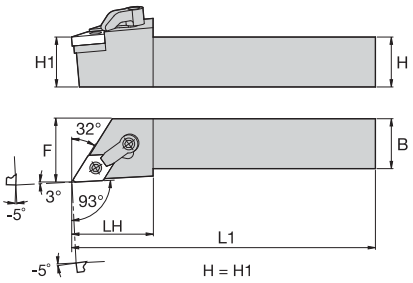


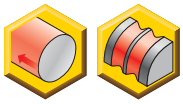
DDNN-KC 63°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	B3	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü															
2273111	**DDNNR2020K15KC06**	20	20	10,0	125	40,0	2,5	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273112	**DDNNR2525M15KC06**	25	25	13,0	150	40,0	–	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**





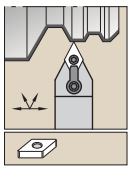


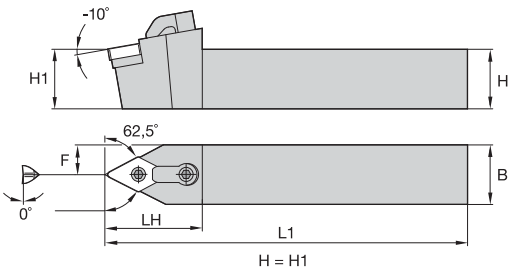
MDJN 93°

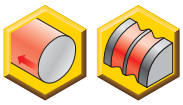





Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1100936	**MDJNR1616H11**	16	16	20,0	100	32,0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1101286	**MDJNR2020K11**	20	20	25,0	125	32,0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1101356	**MDJNR2020K15**	20	20	25,0	125	36,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1101288	**MDJNR2525M11**	25	25	32,0	150	32,0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1101357	**MDJNR2525M15**	25	25	32,0	150	36,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1101358	**MDJNR3225P15**	32	25	32,0	170	36,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
3638550	**MDJNR3232P15**	32	32	40,5	173	32,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
Sol yönlü													
1101285	**MDJNL2020K11**	20	20	25,0	125	32,0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1101287	**MDJNL2525M11**	25	25	32,0	150	32,0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1102316	**MDJNL2525M15**	25	25	32,0	150	36,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1102317	**MDJNL3225P15**	32	25	32,0	170	32,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
3638551	**MDJNL3232P15**	32	32	40,5	173	32,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm





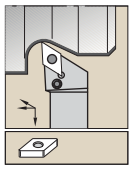


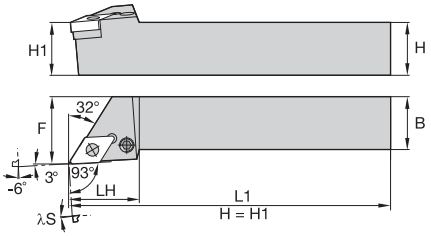
MDNN 62,5°






Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1101636	**MDNNR2525M15**	68	25	12,5	150	41,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1101637	**MDNNR3225P15**	88	32	12,5	170	41,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
Sol yönlü													
1102434	**MDNNL2525M15**	68	25	12,5	150	41,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1102435	**MDNNL3225P15**	88	32	12,5	170	41,0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm

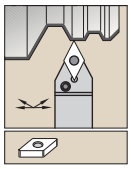


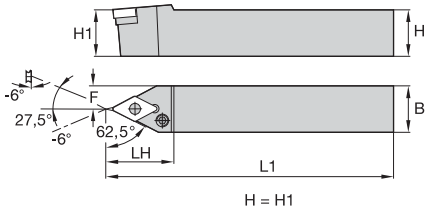


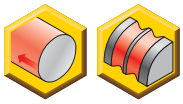
PDJN 93°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	λS°	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü														
1244752	**PDJNR1616H11**	16	16	20,0	100	24,0	-6.0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1192382	**PDJNR2020K11**	20	20	25,0	125	30,0	-7.0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1192383	**PDJNR2020K15**	20	20	25,0	125	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1192384	**PDJNR2525M11**	25	25	32,0	150	30,0	-7.0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1192385	**PDJNR2525M15**	25	25	32,0	150	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1156969	**PDJNR3225P15**	32	25	32,0	170	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1236865	**PDJNR3232P15**	32	32	40,0	170	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244784	**PDJNR4025R15**	40	25	32,0	200	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
Sol yönlü														
1244751	**PDJNL1616H11**	16	16	20,0	100	24,0	-6.0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1244658	**PDJNL2020K11**	20	20	25,0	125	30,0	-7.0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1244820	**PDJNL2020K15**	20	20	25,0	125	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1192380	**PDJNL2525M11**	25	25	32,0	150	30,0	-7.0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1156968	**PDJNL2525M15**	25	25	32,0	150	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244781	**PDJNL3225P15**	32	25	32,0	170	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244821	**PDJNL3232P15**	32	32	40,0	170	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1192381	**PDJNL4025R15**	40	25	32,0	200	36,0	-7.0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP



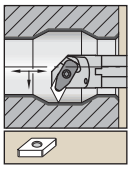




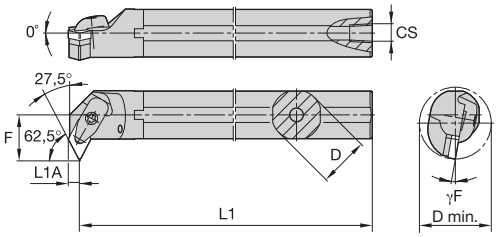
PDNN 62,5°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü													
1244756	**PDNNR2020K11**	20	20	10,0	125	24,0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1244824	**PDNNR2020K15**	20	20	10,0	125	36,0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244773	**PDNNR2525M15**	25	25	12,5	150	36,0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244825	**PDNNR4025M15**	40	25	12,5	150	36,0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
Sol yönlü													
1244754	**PDNNL2020K11**	20	20	10,0	125	24,0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1244822	**PDNNL2020K15**	20	20	10,0	125	36,0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244659	**PDNNL2525M11**	25	25	12,5	150	30,0	DN..110408	**512.060**	**513.060**	**515.018**	**511.060**	**514.118**	10 IP
1244785	**PDNNL2525M15**	25	25	12,5	150	36,0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1244823	**PDNNL4025M15**	40	25	12,5	150	36,0	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP



İçten soğutmalı çelik şaft.

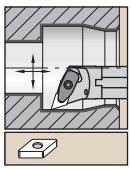




A-DDPN-KC 117,5°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L1A	CS	γF°	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Yarıklı pim	Torx Plus
Sağ yönlü															
2441957	**A25RDDPNR11KC04**	25	37,0	22,0	200	4,8	1/4-18 NPT	-10.0	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441959	**A32SDDPNR15KC06**	32	45,0	27,0	250	6,5	1/4-18 NPT	-12.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441961	**A40TDDPNR15KC06**	40	52,0	30,0	300	6,6	1/4-18 NPT	-10.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
Sol yönlü															
2441960	**A32SDDPNL15KC06**	32	45,0	27,0	250	–	1/4-18 NPT	-12.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441962	**A40TDDPNL15KC06**	40	52,0	30,0	300	6,6	1/4-18 NPT	-10.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP



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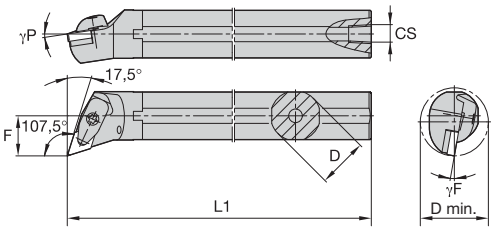
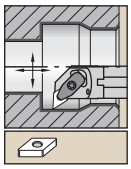




A-DDQN-KC 107,5°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	γP°	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Yarıklı pim	Torx Plus
Sağ yönlü															
2441951	**A25RDDQNR11KC04**	25	32,0	17,0	200	1/4-18 NPT	-11.0	-7.0	DN..110408	–	–	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441953	**A32SDDQNR15KC06**	32	40,0	22,0	250	1/4-18 NPT	-12.0	-10.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441955	**A40TDDQNR15KC06**	40	50,0	27,0	300	1/4-18 NPT	-10.0	-10.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
Sol yönlü															
2441952	**A25RDDQNL11KC04**	25	32,0	17,0	200	1/4-18 NPT	-11.0	-7.0	DN..110408	–	–	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441954	**A32SDDQNL15KC06**	32	40,0	22,0	250	1/4-18 NPT	-12.0	-10.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441956	**A40TDDQNL15KC06**	40	50,0	27,0	300	1/4-18 NPT	-10.0	-10.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP



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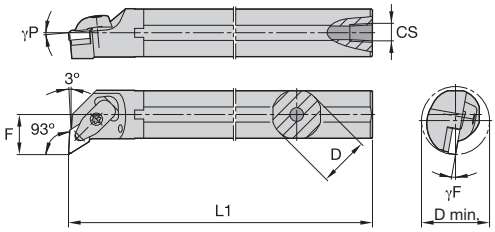
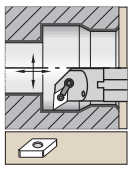




A-DDUN-KC 93°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	γP°	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Yarıklı pim	Torx Plus
Sağ yönlü															
2441939	**A25RDDUNR11KC04**	25	32,0	17,0	200	1/4-18 NPT	-12.0	-5.0	DN..110408	–	–	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441941	**A32SDDUNR11KC04**	32	40,0	22,0	250	1/4-18 NPT	-12.0	-5.0	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441945	**A32SDDUNR15KC06**	32	40,0	22,0	250	1/4-18 NPT	-12.0	-6.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441947	**A40TDDUNR15KC06**	40	50,0	27,0	300	1/4-18 NPT	-9.0	-5.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441949	**A50UDDUNR15KC06**	50	63,0	35,0	350	1/4-18 NPT	-7.0	-5.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
Sol yönlü															
2441940	**A25RDDUNL11KC04**	25	32,0	17,0	200	1/4-18 NPT	-12.0	-5.0	DN..110408	–	–	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441942	**A32SDDUNL11KC04**	32	40,0	22,0	250	1/4-18 NPT	-12.0	-5.0	DN..110408	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441946	**A32SDDUNL15KC06**	32	40,0	22,0	250	1/4-18 NPT	-12.0	-6.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441948	**A40TDDUNL15KC06**	40	50,0	27,0	300	1/4-18 NPT	-9.0	-5.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441950	**A50UDDUNL15KC06**	50	63,0	35,0	350	1/4-18 NPT	-7.0	-5.0	DN..150608	**IDSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP



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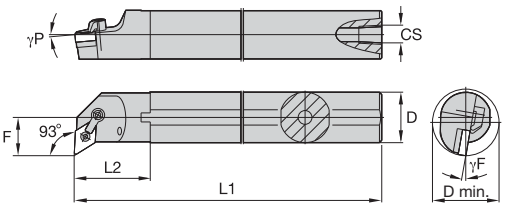




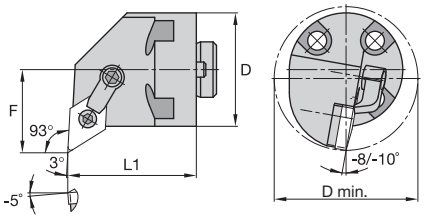
A-MDUN 93°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	CS	γF°	γP°	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü																
1098769	**A25RMDUNR11**	25	32,0	17,0	200	40,0	1/4-18 NPT	-14.0	-5.0	DN..110408	–	**KLM33L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1098102	**A25RMDUNR15**	25	32,0	17,0	200	–	1/4-18 NPT	-14.0	-5.0	DN..150408	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM11**	3 mm
1098770	**A32SMDUNR11**	32	40,0	22,0	250	50,0	1/4-18 NPT	-12.0	-5.0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1098104	**A32SMDUNR15**	32	40,0	22,0	250	–	1/4-18 NPT	-12.0	-6.0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1098106	**A40TMDUNR15**	40	50,0	27,0	300	–	1/4-18 NPT	-9.0	-5.0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1098108	**A50UMDUNR15**	50	63,0	35,0	350	–	1/4-18 NPT	-7.0	-5.0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
Sol yönlü																
1098779	**A25RMDUNL11**	25	32,0	17,0	200	40,0	1/4-18 NPT	-14.0	-5.0	DN..110408	–	**KLM33L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1098103	**A25RMDUNL15**	25	32,0	17,0	200	–	1/4-18 NPT	-14.0	-5.0	DN..150408	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM11**	3 mm
1098780	**A32SMDUNL11**	32	40,0	22,0	250	50,0	1/4-18 NPT	-12.0	-5.0	DN..110408	**IDSN322**	**KLM34L**	2 mm	**CKM7**	**STCM5**	2.5 mm
1098105	**A32SMDUNL15**	32	40,0	22,0	250	–	1/4-18 NPT	-12.0	-6.0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1098107	**A40TMDUNL15**	40	50,0	27,0	300	–	1/4-18 NPT	-9.0	-5.0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
1098109	**A50UMDUNL15**	50	63,0	35,0	350	–	1/4-18 NPT	-7.0	-5.0	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm



İçten soğutmalı.

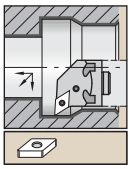


H-MDUN 93°

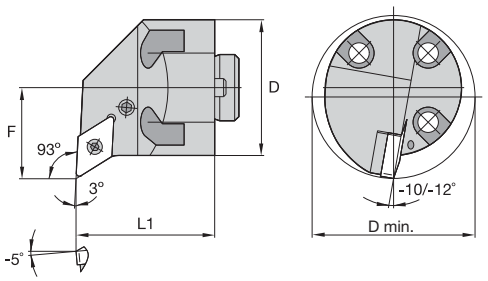


Sipariş numarası	Katalog numarası	D	D min.	F	L1	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü												
1099094	**H40MDUNR15**	40	50,0	27,0	41	DN..150608	**IDSN432**	**KLM46L**	2.5 mm	**CKM22**	**STCM20**	3 mm
Sol yönlü												
3612192	**H50MDUNL19**	50	63,0	35,0	41	DN..190612	**IDSN533**	**KLM58**	3 mm	**CKM12**	**STCM4**	4 mm

Kenlever™ Delik işleme kafaları



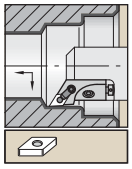
İçten soğutmalı.

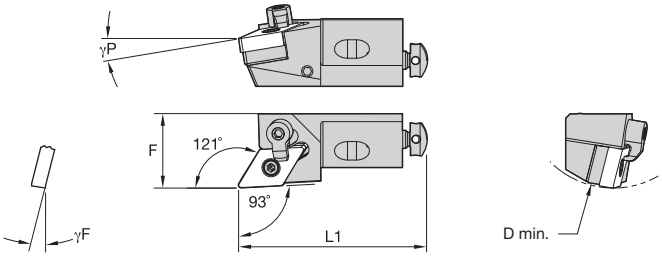


H-PDUN 93°



Sipariş numarası	Katalog numarası	D	D min	F	L1	Ayar ucu	Altlık	Altlık pimi	Yarıklı pim	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü												
1861496	**H32PDUNR15**	32	43,0	25,0	41	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
1861519	**H50PDUNR15**	50	63,0	35,0	41	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP
Sol yönlü												
1861520	**H50PDUNL15**	50	63,0	35,0	41	DN..150608	**512.153**	**513.023**	**515.018**	**511.024**	**514.128**	15 IP





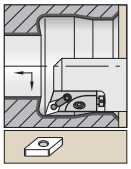
MDJN 93°

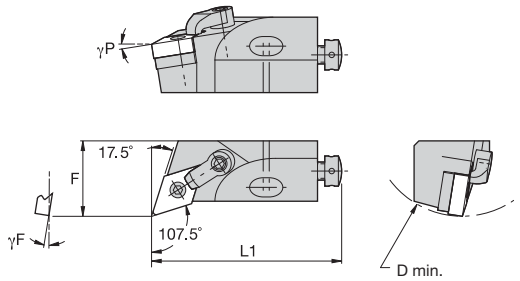
Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
3346241	**MDJNR12CA11**	50	20,0	55	-9.0	-9.0	DN..110408/DN..322
3330275	**MDJNR16CA15**	60	25,0	63	-9.0	-9.0	DN..150408/DN..432
3330199	**MDJNR20CA15**	70	25,0	70	-8.5	-8.5	DN..150408/DN..3.532
Sol yönlü							
3346240	**MDJNL12CA11**	50	20,0	55	-9.0	-9.0	DN..110408/DN..322
3330274	**MDJNL16CA15**	60	25,0	63	-9.0	-9.0	DN..150408/DN..432

Yedek parçalar



D min.	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	**–**	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**IDSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
70	**IDSN432**	**KLM46**	2.5 mm	**CKM41**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**





MDQN 107.5°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
3330277	**MDQNR16CA15**	60	25,0	63	-9.0	-6.0	DN..150408/DN..432
3330201	**MDQNR20CA15**	70	25,0	70	-9.0	-8.0	DN..150408/DN..432
Sol yönlü							
3330276	**MDQNL16CA15**	60	25,0	63	-9.0	-6.0	DN..150408/DN..432
3330200	**MDQNL20CA15**	70	25,0	70	-9.0	-8.0	DN..150408/DN..432

Yedek parçalar



D min.	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
60	**IDSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
70	**IDSN432**	**KLM46**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

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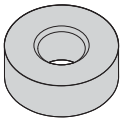
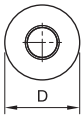
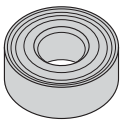
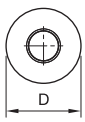



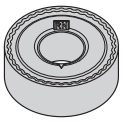
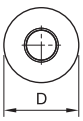
RNMA

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
RNMA120400	12,70	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
RNMA150600	15,88	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

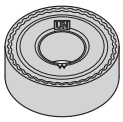
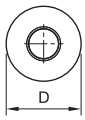
RNMG

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
RNMG190600	19,05	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

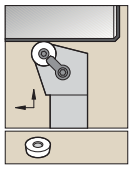
RNMG-RN

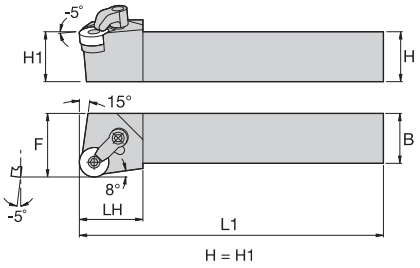
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
RNMG090300RN	9,53	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RNMG120400RN	12,70	–	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
RNMG150600RN	15,88	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RNMG190600RN	19,05	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
RNMG250900RN	25,40	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

RNMG-UN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
RNMG120400UN	12,70	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–







MRGN



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1102086	**MRGNR2525M12**	25	25	32,0	150	32,0	RN..120400	**IRSN43**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
Sol yönlü													
1102699	**MRGNL2525M12**	25	25	32,0	150	32,0	RN..120400	**IRSN43**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm

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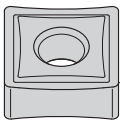
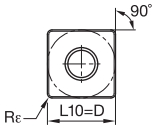
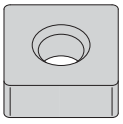
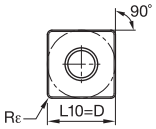




SNGP

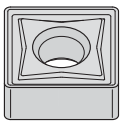
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
SNGP120404	12,70	12,70	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
SNGP120408	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

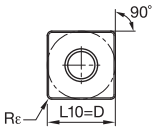




SNMA

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMA120408	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMA120412	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMA150612	15,88	15,88	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMA190612	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMA190616	19,05	19,05	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





SNMG

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
SNMG120412	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMG190612	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
SNMG190616	19,05	19,05	1,6	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG250924	25,40	25,40	2,4	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

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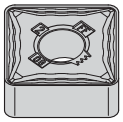
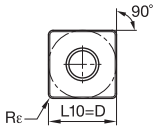
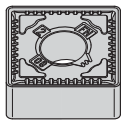
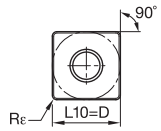




SNMG-FF

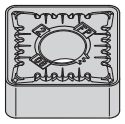
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
SNMG090304FF	9,53	9,53	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
SNMG090308FF	9,53	9,53	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
SNMG120408FF	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

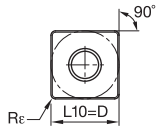




SNMG-FN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090308FN	9,53	9,53	0,8	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120404FN	12,70	12,70	0,4	–	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120408FN	12,70	12,70	0,8	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
SNMG120412FN	12,70	12,70	1,2	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120416FN	12,70	12,70	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





SNMG-FP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120404FP	12,70	12,70	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–
SNMG120408FP	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	–	–	–	–

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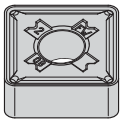
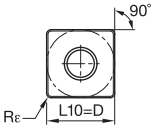
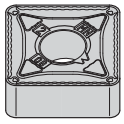
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

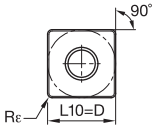




SNMG-FW

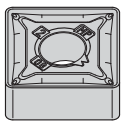
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408FW	12,70	12,70	0,8	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412FW	12,70	12,70	1,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

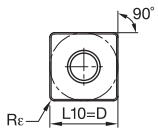




SNMG-MN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090308MN	9,53	9,53	0,8	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG090312MN	9,53	9,53	1,2	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120404MN	12,70	12,70	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120408MN	12,70	12,70	0,8	–	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412MN	12,70	12,70	1,2	–	–	●	●	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120416MN	12,70	12,70	1,6	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612MN	15,88	15,88	1,2	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150616MN	15,88	15,88	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190612MN	19,05	19,05	1,2	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190616MN	19,05	19,05	1,6	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





SNMG-MP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MP	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	●	–	●	–	–	–
SNMG120412MP	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	●	●	●	–	–	–
SNMG120416MP	12,70	12,70	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150608MP	15,88	15,88	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–
SNMG150612MP	15,88	15,88	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–
SNMG150616MP	15,88	15,88	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–
SNMG190612MP	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–
SNMG190616MP	19,05	19,05	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

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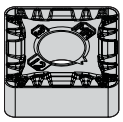
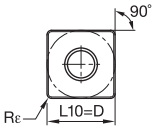
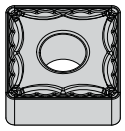
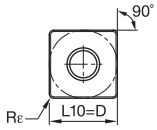




SNMG-MR

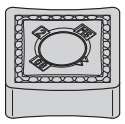
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
SNMG120408MR	12,70	12,70	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–
SNMG120412MR	12,70	12,70	1,2	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–
SNMG150612MR	15,88	15,88	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–

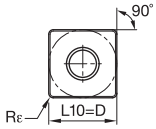




SNMG-MG

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120416MG	12,70	12,70	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





SNMG-MS

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408MS	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
SNMG120412MS	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
SNMG150608MS	15,88	15,88	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
SNMG150612MS	15,88	15,88	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
SNMG190612MS	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–

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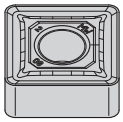
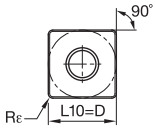
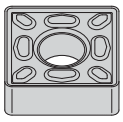
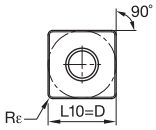




SNMG-MW

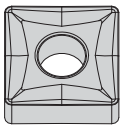
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
SNMG120408MW	12,70	12,70	0,8	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412MW	12,70	12,70	1,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

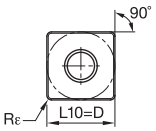




SNMG-P

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120412P	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–





SNMG-RM

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG250924RM	25,40	25,40	2,4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–

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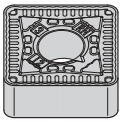
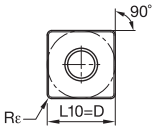
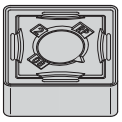
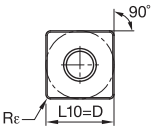




SNMG-RN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG090412RN	9,53	9,53	1,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120408RN	12,70	12,70	0,8	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412RN	12,70	12,70	1,2	–	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
SNMG120416RN	12,70	12,70	1,6	–	–	●	–	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150608RN	15,88	15,88	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612RN	15,88	15,88	1,2	–	–	●	–	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
SNMG150616RN	15,88	15,88	1,6	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
SNMG190608RN	19,05	19,05	0,8	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190612RN	19,05	19,05	1,2	–	–	●	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190616RN	19,05	19,05	1,6	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
SNMG190624RN	19,05	19,05	2,4	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG250924RN	25,40	25,40	2,4	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





SNMG-RP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408RP	12,70	12,70	0,8	–	●	–	●	●	●	–	–	–	–	–	–	–	–	●	●	–	–	–	●	–	●	–	–	–	●	●	●	●	–	–
SNMG120412RP	12,70	12,70	1,2	–	●	●	●	●	●	–	●	–	●	–	●	●	●	–	●	–	–	●	●	–	–	–	–	–	●	●	●	●	–	–
SNMG120416RP	12,70	12,70	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
SNMG150612RP	15,88	15,88	1,2	–	–	●	–	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–	–
SNMG150616RP	15,88	15,88	1,6	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	–
SNMG190612RP	19,05	19,05	1,2	–	–	–	●	●	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	●	●	●	●	–	–
SNMG190616RP	19,05	19,05	1,6	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	●	–	–	●	●	–	–	●	–	–	●	●	–	●	–	–

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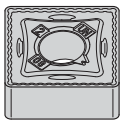
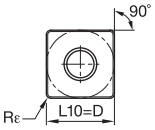
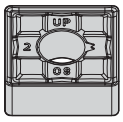


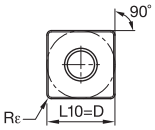


SNMG-UN

P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M											○	○							●	●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●									●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																	

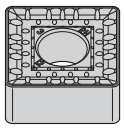
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408UN	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120412UN	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG120416UN	12,70	12,70	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150612UN	15,88	15,88	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG150616UN	15,88	15,88	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190612UN	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMG190616UN	19,05	19,05	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

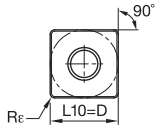




SNMG-UP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMG120408UP	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–
SNMG120412UP	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–
SNMG150612UP	15,88	15,88	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–





SNMM-RH

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM190612RH	19,05	19,05	1,2	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190616RH	19,05	19,05	1,6	–	–	–	●	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190624RH	19,05	19,05	2,4	–	–	–	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RH	25,40	25,40	2,4	–	–	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250924RH	25,40	25,40	2,4	–	–	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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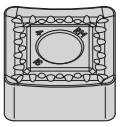
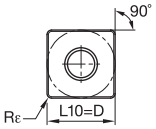
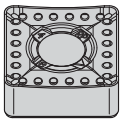
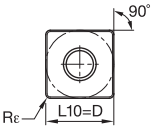




SNMM-RM

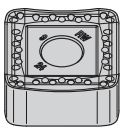
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
SNMM120408RM	12,70	12,70	0,8	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM120412RM	12,70	12,70	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150612RM	15,88	15,88	1,2	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150616RM	15,88	15,88	1,6	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190612RM	19,05	19,05	1,2	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190616RM	19,05	19,05	1,6	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190624RM	19,05	19,05	2,4	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RM	25,40	25,40	2,4	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250924RM	25,40	25,40	2,4	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

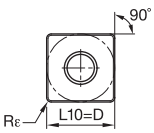




SNMM-RP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM120408RP	12,70	12,70	0,8	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–
SNMM120412RP	12,70	12,70	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
SNMM150612RP	15,88	15,88	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM150616RP	15,88	15,88	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
SNMM190612RP	19,05	19,05	1,2	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM190616RP	19,05	19,05	1,6	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–
SNMM190624RP	19,05	19,05	2,4	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RP	25,40	25,40	2,4	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
SNMM250924RP	25,40	25,40	2,4	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–





SNMM-RW

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMM190624RW	19,05	19,05	2,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SNMM250724RW	25,40	25,40	2,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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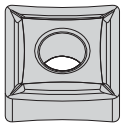
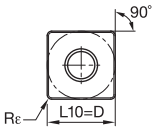
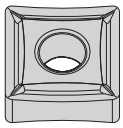
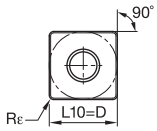




SNMP

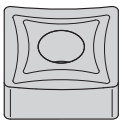
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
SNMP190612	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–

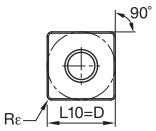




SNMP-K

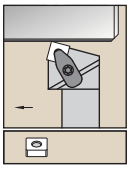
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMP120408K	12,70	12,70	0,8	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

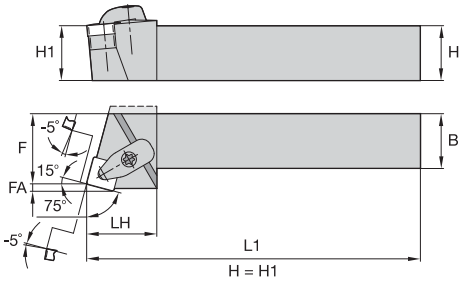


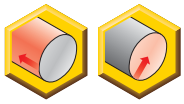


SNMS

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
SNMS120408	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SNMS190612	19,05	19,05	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–



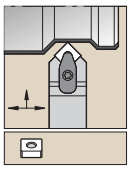


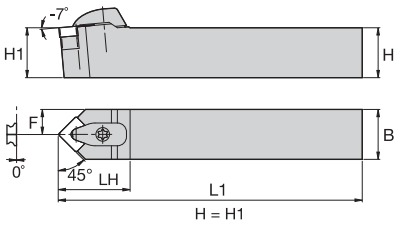


DSBN-KC 75°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sol yönlü															
1875215	**DSBNL2525M12KC04**	25	25	22,0	150	32,0	3,0	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**



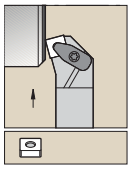


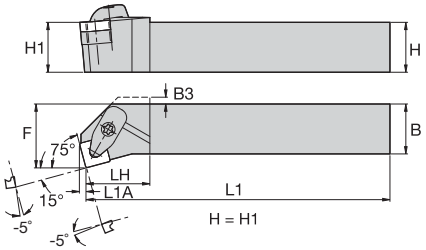


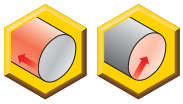
DSDN-KC 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
1875210	**DSDNN2020K12KC04**	20	20	10,0	125	36,0	SN..120408	**ISSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875211	**DSDNN2525M12KC04**	25	25	12,0	150	36,0	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
1875216	**DSDNN2525M15KC06**	25	25	12,0	150	42,0	SN..150612	**ISSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**	**KLM58L15IP**
2273139	**DSDNN3232P19KC06**	32	32	15,5	170	44,0	SN..190612	**ISSN643**	**KMSP625IP**	25 IP	**CM210R ASSY**	25 IP	**SSP025016M**	**KLM68L25IP**
2456320	**DSDNN4040S25KC09**	40	40	19,5	250	59,0	SN..250924	**ISSN846**	**KMSP825IP**	25 IP	**CM236R ASSY**	25 IP	**SSP025018M**	**KLM81025IP**







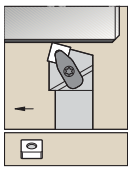
DSKN-KC 75°

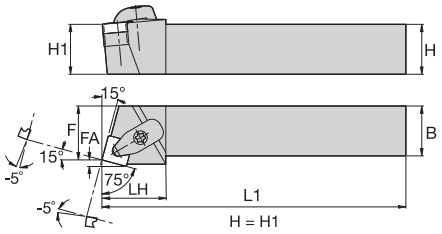


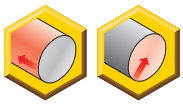




Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	B3	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü																
1875219	**DSKNR2525M12KC04**	25	25	32,0	150	32,0	3,1	4,0	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
Sol yönlü																
1875220	**DSKNL2525M12KC04**	25	25	32,0	150	32,0	3,1	4,0	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**







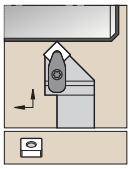
DSRN-KC 75°

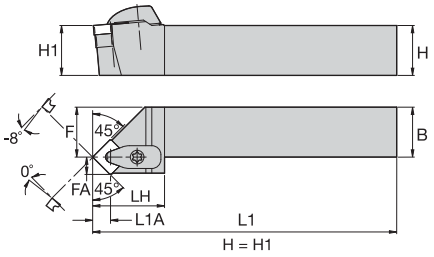






Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü															
1875228	**DSRNR2525M12KC04**	25	25	27,0	150	32,0	3,3	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2456321	**DSRNR4040S25KC09**	40	40	43,0	250	52,0	6,1	SN..250924	**ISSN846**	**KMSP825IP**	25 IP	**CM236R ASSY**	25 IP	**SSP025018M**	**KLM81025IP**
Sol yönlü															
2456322	**DSRNL4040S25KC09**	40	40	43,0	250	52,0	6,1	SN..250924	**ISSN846**	**KMSP825IP**	25 IP	**CM236R ASSY**	25 IP	**SSP025018M**	**KLM81025IP**



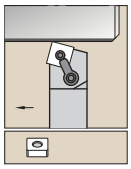


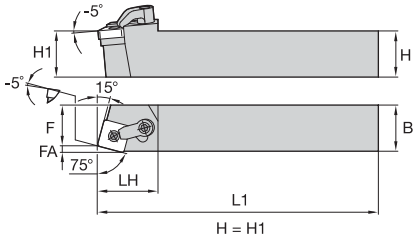


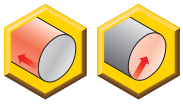
DSSN-KC 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	L1A	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü																
1875202	**DSSNR2020K12KC04**	20	20	25,0	125	36,0	8,4	8,7	SN..120408	**ISSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1875195	**DSSNR2525M12KC04**	25	25	32,0	150	36,0	8,4	9,6	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
2273156	**DSSNR3225P12KC04**	32	25	32,0	170	35,4	8,4	8,7	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
Sol yönlü																
1875203	**DSSNL2525M12KC04**	25	25	32,0	150	36,0	8,4	8,7	SN..120408	**ISSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**



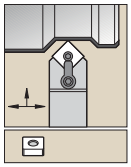


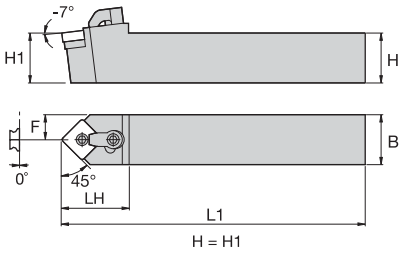


MSBN 75°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü														
1101893	**MSBNR3232P19**	32	32	27,0	170	40,0	4,6	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1101954	**MSBNR4040R19**	40	40	35,0	200	40,0	4,6	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1100937	**MSBNR2020K12**	61	20	17,0	125	32,0	3,1	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101359	**MSBNR2525M15**	80	25	22,0	150	35,0	3,8	SN..150612	**ISSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1100941	**MSBNR2525M12**	86	25	22,0	150	32,0	3,1	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101361	**MSBNR3232P15**	100	32	27,0	170	35,0	3,8	SN..150612	**ISSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1101289	**MSBNR3225P12**	106	32	22,0	170	32,0	3,1	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
Sol yönlü														
1102640	**MSBNL3232P19**	32	32	27,0	170	40,0	4,6	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1099148	**MSBNL4040R19**	40	40	35,0	200	40,0	4,6	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1102242	**MSBNL2020K12**	61	20	17,0	125	32,0	3,1	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102318	**MSBNL2525M15**	80	25	22,0	150	35,0	3,8	SN..150612	**ISSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102243	**MSBNL2525M12**	86	25	22,0	150	32,0	3,1	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102319	**MSBNL3232P15**	100	32	27,0	170	35,0	3,8	SN..150612	**ISSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102314	**MSBNL3225P12**	106	32	22,0	170	32,0	3,1	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm



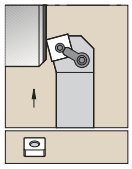


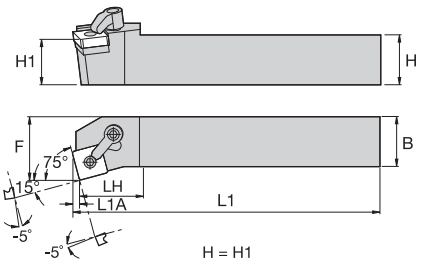


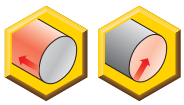
MSDN 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
1101891	**MSDNN2525M12**	25	25	12,0	150	32,0	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101889	**MSDNN1616H09**	44	16	8,0	100	28,0	SN..090308	**ISSN332**	**KLM34L**	2 mm	**CKM19**	**STCM9**	2.5 mm
1101890	**MSDNN2020K12**	61	20	10,0	125	32,0	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101892	**MSDNN2525M15**	80	25	12,5	150	35,0	SN..150612	**ISSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1101888	**MSDNN3232P19**	86	32	16,0	170	42,0	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1101713	**MSDNN3225P12**	106	32	12,5	170	32,0	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm



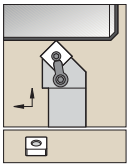


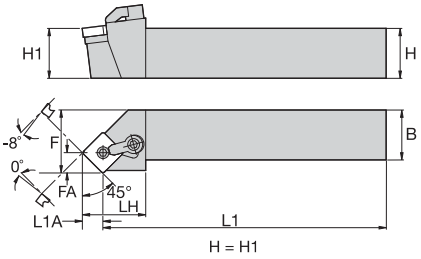


MSKN 75°



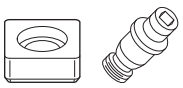
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü														
1101886	**MSKNR2525M12**	25	25	32,0	150	32,0	3,1	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1101957	**MSKNR3232P19**	32	32	40,0	170	40,0	4,6	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
Sol yönlü														
1102637	**MSKNL2525M12**	25	25	32,0	150	32,0	3,1	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102638	**MSKNL3225P12**	32	25	32,0	170	32,0	3,1	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1099158	**MSKNL3232P15**	32	32	40,0	170	35,0	3,7	SN..150612	**ISSN533**	**KLM58**	3 mm	**CKM21**	**STCM20**	3 mm
1102641	**MSKNL3232P19**	32	32	40,0	170	40,0	4,6	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm

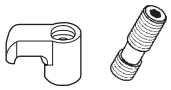




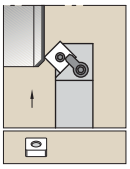


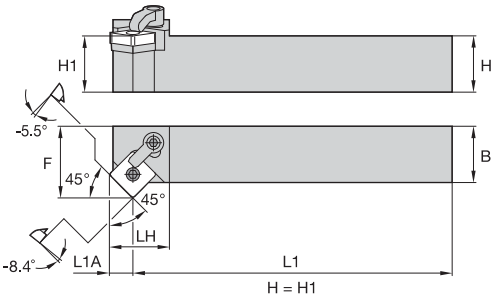
MSSN 45°





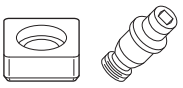
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	L1A	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü															
1102166	**MSSNR3232P19**	32	32	40,0	170	40,0	12,5	12,5	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1102164	**MSSNR2020K12**	71	20	25,0	125	32,0	8,4	9,6	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102165	**MSSNR2525M12**	96	25	32,0	150	32,0	8,4	9,6	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
Sol yönlü															
1102717	**MSSNL2020K12**	20	20	25,0	125	32,0	8,4	8,3	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1102719	**MSSNL3232P19**	32	32	40,0	170	40,0	12,5	12,5	SN..190612	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
1102718	**MSSNL2525M12**	96	25	32,0	150	32,0	8,4	9,6	SN..120408	**ISSN433**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm

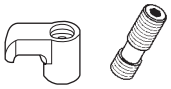




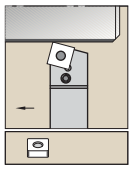


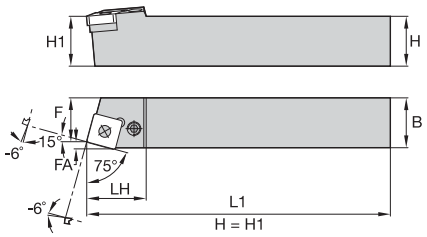
MSZN 45°

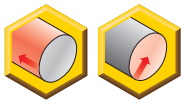




Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü														
1101884	**MSZNR2525M12**	25	25	32,0	150	25,0	8,5	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
Sol yönlü														
1102634	**MSZNL2525M12**	25	25	32,0	150	25,0	8,5	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm



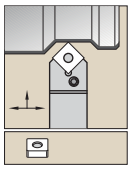


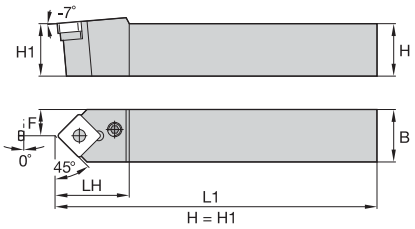


PSBN 75°



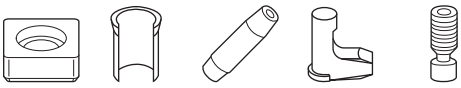
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü														
1244833	**PSBNR2020K12**	20	20	17,0	125	26,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244677	**PSBNR2525M12**	25	25	22,0	150	26,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244834	**PSBNR2525M15**	25	25	22,0	150	36,0	3,8	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244678	**PSBNR3225P12**	32	25	22,0	170	26,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244680	**PSBNR3232P15**	32	32	27,0	170	33,0	3,8	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244681	**PSBNR3232P19**	32	32	27,0	170	40,0	4,6	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244682	**PSBNR4040S19**	40	40	35,0	250	38,0	4,6	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244683	**PSBNR4040S25**	40	40	35,0	250	47,0	5,9	SN..250724	**512.092**	**513.038**	**515.028**	**511.038**	**514.138**	30 IP
Sol yönlü														
1244774	**PSBNL2020K12**	20	20	17,0	125	26,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244668	**PSBNL2525M12**	25	25	22,0	150	26,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244669	**PSBNL2525M15**	25	25	22,0	150	36,0	3,8	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244672	**PSBNL3232P15**	32	32	27,0	170	33,0	3,8	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244673	**PSBNL3232P19**	32	32	27,0	170	40,0	4,6	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244674	**PSBNL4040S19**	40	40	35,0	250	38,0	4,6	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244675	**PSBNL4040S25**	40	40	35,0	250	47,0	5,9	SN..250724	**512.092**	**513.038**	**515.028**	**511.038**	**514.138**	30 IP



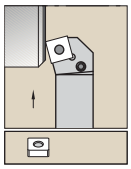


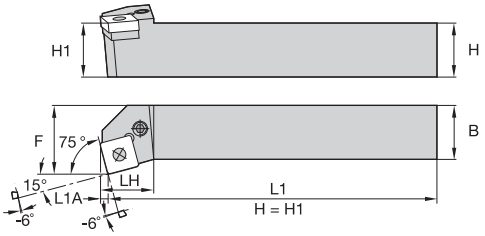


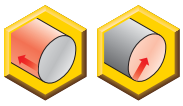
PSDN 45°



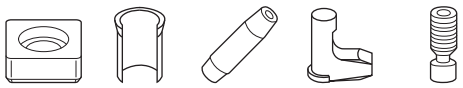
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Torx Plus
1244686	**PSDNN1616H09**	16	16	8,0	100	22,0	SN..090308	**512.053**	**513.019**	**515.018**	**511.018**	**514.118**	10 IP
1244863	**PSDNN2020K12**	20	20	10,0	125	26,0	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1156970	**PSDNN2525M12**	25	25	12,5	150	26,0	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244687	**PSDNN3225P12**	32	25	12,5	170	28,0	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244688	**PSDNN3225P19**	32	25	12,5	170	40,0	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244835	**PSDNN3232P19**	32	32	16,0	170	40,0	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1147356	**PSDNN4040S25**	40	40	20,0	250	50,0	SN..250724	**512.092**	**513.038**	**515.028**	**511.038**	**514.138**	30 IP



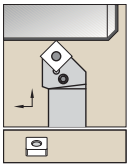


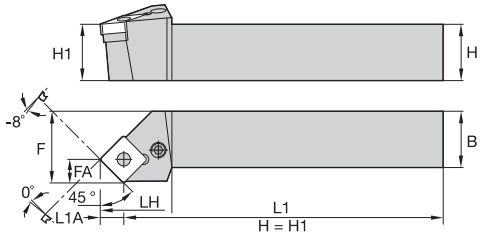


PSKN 75°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü														
1244699	**PSKNR2020K12**	20	20	25,0	125	23,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244836	**PSKNR2525M12**	25	25	32,0	150	23,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244701	**PSKNR3232P15**	32	32	40,0	170	32,0	3,8	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244702	**PSKNR3232P19**	32	32	40,0	170	37,5	4,6	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
Sol yönlü														
1244690	**PSKNL2525M12**	25	25	32,0	150	23,0	3,1	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244693	**PSKNL3232P19**	32	32	40,0	170	37,5	4,6	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP



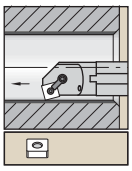




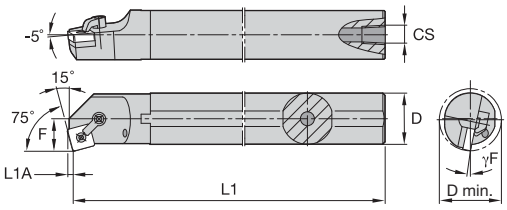
PSSN 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	L1A	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü															
1244718	**PSSNR2020K09**	20	20	25,0	125	26,0	6,1	6,1	SN..090308	**512.053**	**513.019**	**515.018**	**511.018**	**514.118**	10 IP
1244837	**PSSNR2020K12**	20	20	25,0	125	28,0	8,3	8,3	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1156961	**PSSNR2525M12**	25	25	32,0	150	28,0	8,3	8,3	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244719	**PSSNR2525M15**	25	25	32,0	150	32,0	10,2	10,2	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244720	**PSSNR3225P12**	32	25	32,0	170	29,0	8,3	8,3	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244722	**PSSNR3232P15**	32	32	40,0	170	32,0	10,0	11,5	SN..150612	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244838	**PSSNR3232P19**	32	32	40,0	170	37,5	12,5	12,5	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244723	**PSSNR4040S19**	40	40	50,0	250	37,5	12,5	12,5	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
Sol yönlü															
1244709	**PSSNL2020K12**	20	20	25,0	125	28,0	8,3	8,3	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244789	**PSSNL2525M12**	25	25	32,0	150	28,0	8,3	8,3	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244710	**PSSNL2525M15**	25	25	32,0	150	32,0	10,2	10,2	SN..150608	**512.025**	**513.025**	**515.022**	**511.025**	**514.125**	15 IP
1244711	**PSSNL3225P12**	32	25	32,0	170	29,0	8,3	8,3	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244714	**PSSNL3232P19**	32	32	40,0	170	37,5	12,5	12,5	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP
1244715	**PSSNL4040S19**	40	40	50,0	250	37,5	12,5	12,5	SN..190612	**512.083**	**513.033**	**515.022**	**511.033**	**514.133**	25 IP



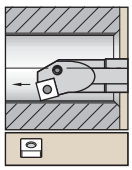
İçten soğutmalı çelik şaft.



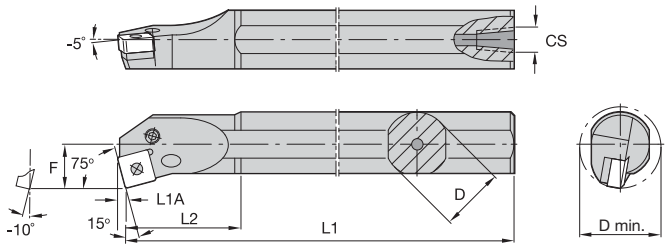
A-MSKN 75°



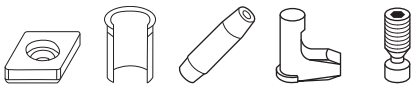
Sipariş numarası	Katalog numarası	D	D min.	F	L1	L1A	CS	γF°	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü															
1098116	**A40TMSKNR12**	40	50,0	27,0	300	3,1	1/4-18 NPT	-10.0	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098120	**A50UMSKNR19**	50	63,0	35,0	350	4,6	1/4-18 NPT	-12.0	SN..190608	**ISSN633**	**KLM68**	4 mm	**CKM12**	**STCM4**	4 mm
Sol yönlü															
1098115	**A32SMSKNL12**	32	40,0	22,0	250	3,1	1/4-18 NPT	-14.0	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm
1098117	**A40TMSKNL12**	40	50,0	27,0	300	3,1	1/4-18 NPT	-10.0	SN..120408	**ISSN432**	**KLM46**	2.5 mm	**CKM21**	**STCM20**	3 mm



İçten soğutmalı çelik şaft.

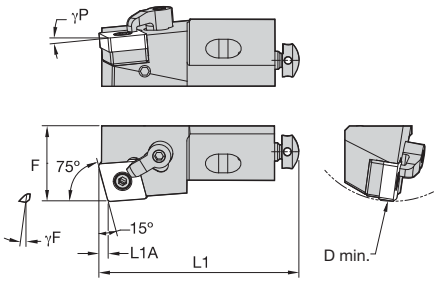


A-PSKN 75°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	L1A	CS	Ayar ucu	Altlık	Altlık pimi	Yarıklı pim	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü															
2447480	**A25TPSKNR12**	25	30,0	17,0	300	43	3,0	1/4-18 NPT	SN..120408	–	–	–	**511.022**	**514.122**	10 IP
2447482	**A32UPSKNR12**	32	40,0	22,0	350	52	3,0	1/4-18 NPT	SN..120408	**512.063**	**513.023**	**515.018**	**511.023**	**514.124**	15 IP





MSKN 75°

Sipariş numarası	Katalog numarası	D min.	F	L1	L1A	γF°	γP°	Ayar ucu
Sağ yönlü								
2114011	**MSKNR10CA09**	40	14,0	50	2,2	-9.0	-5.0	SN..090308/SN..322
2114013	**MSKNR12CA12**	50	20,0	55	3,0	-9.0	-5.0	SN..120408/SN..432
2074430	**MSKNR16CA12**	60	25,0	63	3,0	-9.0	-5.0	SN..120408/SN..432
2072222	**MSKNR20CA15**	70	25,0	70	3,7	-9.0	-5.0	SN..150612/SN..543
2987166	**MSKNR25CA19**	100	32,0	100	4,6	-9.0	-5.0	SN..190612/SN..543
Sol yönlü								
3346242	**MSKNL12CA12**	50	20,0	55	3,0	-9.0	-5.0	SN..120408/SN..432
3330202	**MSKNL20CA15**	70	25,0	70	3,7	-9.0	-5.0	SN..150612/SN..543

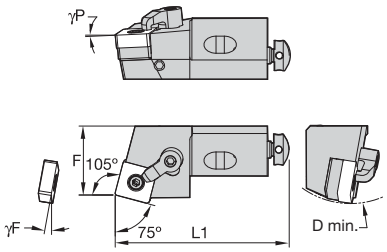
NOT: Seçilen D min.ve kesici uç ölçüsüne göre yedek parçalar seçilir.

Yedek parçalar



D min.	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Montaj vidası	Altıgen	Yaylı halka
40	**–**	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	**–**	4 mm	**CSWM 060 050**
50	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	**–**	4 mm	**CSWM 060 050**
60	**ISSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	**–**	5 mm	**CSWM 080 050**
70	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	**–**	5 mm	**CSWM 080 050**
100	**ISSN633**	**KLM68**	4 mm	**CKM35**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM32**	**–**	**–**	**MS364**	8 mm	**CSWM 100 080**





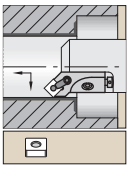
MSRN 75°

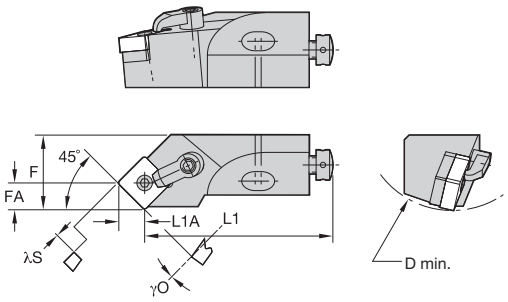
Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098436	**MSRNR10CA09**	40	14,0	50	-9.0	-5.0	SN..090308/SN..322
2078231	**MSRNR12CA12**	50	20,0	55	-9.0	-5.0	SN..120408/SN..432
2074432	**MSRNR16CA12**	60	25,0	63	-9.0	-5.0	SN..120408/SN..432
Sol yönlü							
1282803	**MSRNL12CA12**	50	20,0	55	-9.0	-5.0	SN..120408/SN..432
3330279	**MSRNL16CA12**	60	25,0	63	-9.0	-5.0	SN..120408/SN..432
3330203	**MSRNL20CA15**	70	25,0	70	-9.0	-5.0	SN..150612/SN..543

Yedek parçalar



D min.	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Altıgen	Yaylı halka
40	**–**	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**
60	**ISSN432**	**KLM46S**	2.5 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**
70	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**





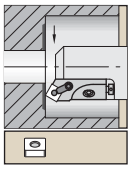
MSSN 45°

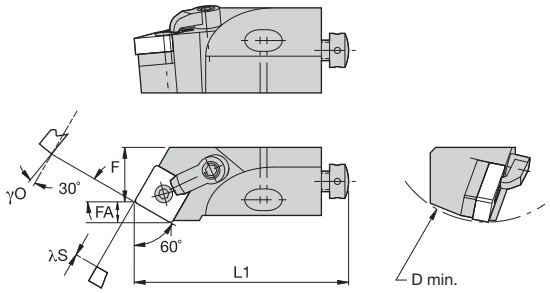
Sipariş numarası	Katalog numarası	D min.	F	L1	L1A	λS°	γO°	Ayar ucu
Sağ yönlü								
1339367	**MSSNR10CA09**	40	14,0	44	6,1	-13.0	0.0	SN..090308/SN..322
1282807	**MSSNR12CA12**	50	20,0	47	8,3	-13.0	0.0	SN..120408/SN..432
3330281	**MSSNR16CA12**	60	25,0	53	8,3	-13.0	0.0	SN..120408/SN..432
3330206	**MSSNR20CA15**	70	25,0	60	10,3	-13.0	0.0	SN..150612/SN..543
Sol yönlü								
2071758	**MSSNL10CA09**	40	14,0	44	6,1	-13.0	0.0	SN..090308/SN..322
2071739	**MSSNL12CA12**	50	20,0	47	8,3	-13.0	0.0	SN..120408/SN..432

Yedek parçalar



D min.	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Altıgen	Yaylı halka
40	–	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	–	4 mm	**CSWM 060 050**
50	–	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	–	**191.406**	4 mm	**CSWM 060 050**
60	**ISSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	–	**191.407**	5 mm	**CSWM 080 050**
70	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	–	**191.407**	5 mm	**CSWM 080 050**





MSTN 60°

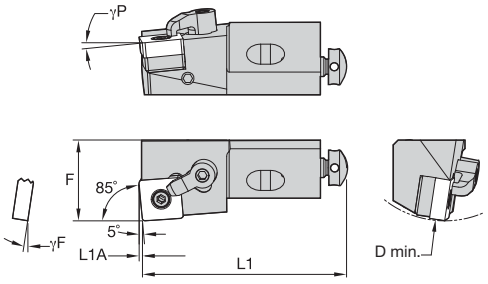
Sipariş numarası	Katalog numarası	D min.	F	L1	FA	λS°	γO°	Ayar ucu
Sağ yönlü								
3331149	**MSTNR10CA09**	40,0	9,0	50	13,3	-11.0	0.0	SN..090308/SN..322
2074904	**MSTNR12CA12**	50,0	13,0	55	5,9	-11.0	0.0	SN..120408/SN..432

Yedek parçalar



D min	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Altıgen	Yaylı halka
40	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**





MSYN 85°

Sipariş numarası	Katalog numarası	D min.	F	L1	L1A	γF°	γP°	Ayar ucu
Sağ yönlü								
2114015	**MSYNR10CA09**	40	14,0	50	0,8	-9.0	-5.0	SN..090308/SN..322
3346274	**MSYNR12CA12**	50	20,0	55	1,0	-9.0	-5.0	SN..120408/SN..432
3330283	**MSYNR16CA12**	60	25,0	63	1,0	-9.0	-5.0	SN..120408/SN..432
1098465	**MSYNR25CA19**	100	32,0	100	1,5	-9.0	-5.0	SN..190612/SN..643
Sol yönlü								
3331150	**MSYNL10CA09**	40	14,0	50	0,8	-9.0	-5.0	SN..090308/SN..322
3346273	**MSYNL12CA12**	50	20,0	55	1,0	-9.0	-5.0	SN..120408/SN..432
1098691	**MSYNL20CA15**	70	25,0	70	1,3	-9.0	-5.0	SN..150612/SN..543

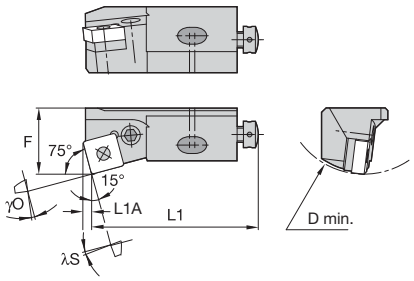
NOT: Seçilen D min.ve kesici uç ölçüsüne göre yedek parçalar seçilir.

Yedek parçalar



D min.	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Montaj vidası	Altıgen	Yaylı halka
40	**–**	**KLM33**	2 mm	**CKM36**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	**–**	4 mm	**CSWM 060 050**
50	**–**	**KLM43**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	**–**	4 mm	**CSWM 060 050**
60	**ISSN432**	**KLM46S**	2.5 mm	**CKM36**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	**–**	5 mm	**CSWM 080 050**
70	**SKSN566K**	**KLM54**	2.5 mm	**CKM37**	**STCM40**	2.5 mm	**KUAM25**	2.5 mm	**KUAM33**	**–**	**191.407**	**–**	6 mm	**CSWM 080 050**
100	**ISSN633**	**KLM68**	4 mm	**CKM34**	**STCM8**	4 mm	**KUAM27**	4 mm	**KUAM33**	**–**	**–**	**MS364**	8 mm	**CSWM 100 080**





PSKN 75°

Sipariş numarası	Katalog numarası	D min.	F	L1	L1A	λS°	γO°	Ayar ucu
Sağ yönlü								
1188639	**PSKNR12CA-12**	50	20,0	55	3,1	-8.0	-6.0	SN..120408/SN..432

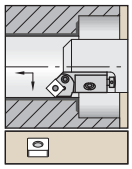
Yedek parçalar

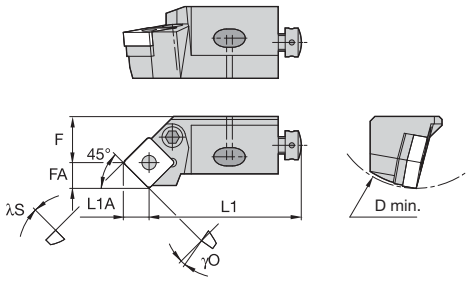







D min	Mafsallı levye	Levye vidası	Levye vidası anahtar ölçüsü	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	**511.022**	**514.122**	10 IP	**KUAM28**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**





PSSN 45°

Sipariş numarası	Katalog numarası	D min	F	L1	FA	L1A	λS°	γO°	γP°	Ayar ucu
Sağ yönlü										
1244455	**PSSNR12CA-12**	50,0	20,0	47	8,7	8,3	-10.0	0.0	–	SN..120408/SN..432
Sol yönlü										
1244452	**PSSNL12CA12**	50,0	11,3	47	8,7	8,3	0.0	0.0	-10.0 deg	SN..120408/SN..432

Yedek parçalar

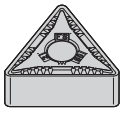


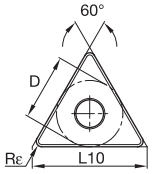





D min.	Mafsallı levye	Levye vidası	Levye vidası anahtar ölçüsü	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	**511.022**	**514.122**	10 IP	**KUAM28**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**

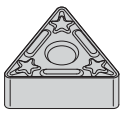
● İlk tercih
○ Alternatif tercih

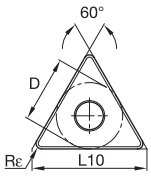




TNGG-FS

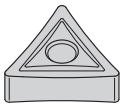
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
TNGG160402FS	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–
TNGG160404FS	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–
TNGG220408FS	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

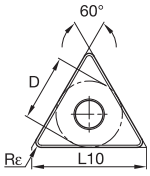




TNGG-LF

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNGG160402LF	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
TNGG160404LF	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
TNGG160408LF	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–





TNGP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNGP160402	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
TNGP160404	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–
TNGP160408	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–

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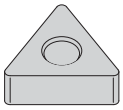
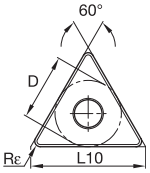
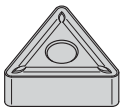
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

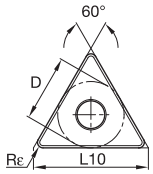




TNMA

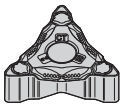
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMA160408	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMA160412	9,53	16,50	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMA160416	9,53	16,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMA220408	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMA220412	12,70	22,00	1,2	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMA270616	15,88	27,50	1,6	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

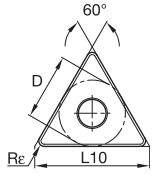




TNMG

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG220412	12,70	22,00	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMG330924	19,05	33,00	2,4	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





TNMG-CT

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408CT	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–

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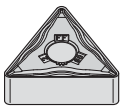

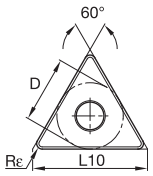

TNMG-FF

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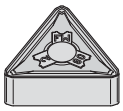

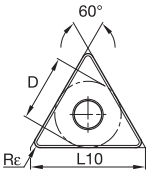

TNMG-FW

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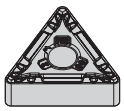

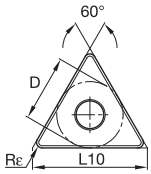

TNMG-MR

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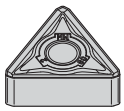
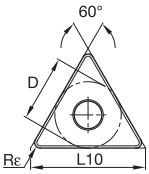
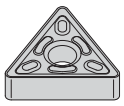
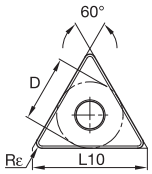




TNMG-MW

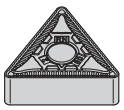
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408MW	9,53	16,50	0,8	–	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412MW	9,53	16,50	1,2	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

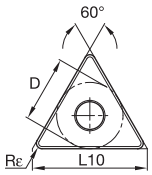




TNMG-P

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160404P	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
TNMG160408P	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG220404P	12,70	22,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG220408P	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TNMG220412P	12,70	22,00	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–





TNMG-RN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMG160408RN	9,53	16,50	0,8	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG160412RN	9,53	16,50	1,2	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220408RN	12,70	22,00	0,8	–	–	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220412RN	12,70	22,00	1,2	–	–	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG220416RN	12,70	22,00	1,6	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270608RN	15,88	27,50	0,8	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270612RN	15,88	27,50	1,2	–	–	●	●	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG270616RN	15,88	27,50	1,6	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMG330924RN	19,05	33,00	2,4	–	–	●	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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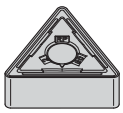

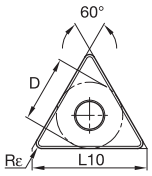

TNMG-RP

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

ISO Katalog numarası	D	L10	Rε
TNMG160408RP	9,53	16,50	0,8
TNMG160412RP	9,53	16,50	1,2
TNMG160416RP	9,53	16,50	1,6
TNMG220408RP	12,70	22,00	0,8
TNMG220412RP	12,70	22,00	1,2
TNMG220416RP	12,70	22,00	1,6
TNMG220432RP	12,70	22,00	3,2
TNMG270612RP	15,88	27,50	1,2
TNMG270616RP	15,88	27,50	1,6
TNMG330924RP	19,05	33,00	2,4

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
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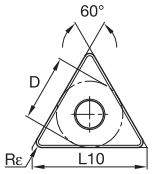

TNMG-UN

ISO Katalog numarası	D	L10	Rε
TNMG160408UN	9,53	16,50	0,8
TNMG160412UN	9,53	16,50	1,2
TNMG160416UN	9,53	16,50	1,6
TNMG220408UN	12,70	22,00	0,8
TNMG220412UN	12,70	22,00	1,2
TNMG220416UN	12,70	22,00	1,6

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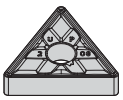
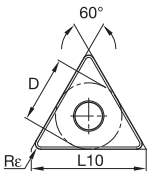
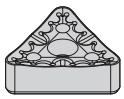
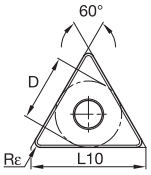




TNMG-UP

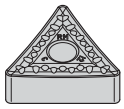
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
TNMG160404UP	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
TNMG160408UP	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–
TNMG220408UP	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–

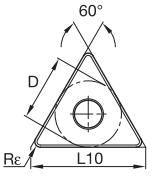




TNMM-MR

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMM330924MR	19,05	33,00	2,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





TNMM-RM

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMM160408RM	9,53	16,50	0,8	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM160412RM	9,53	16,50	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220408RM	12,70	22,00	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220412RM	12,70	22,00	1,2	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220416RM	12,70	22,00	1,6	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM270612RM	15,88	27,50	1,2	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM270616RM	15,88	27,50	1,6	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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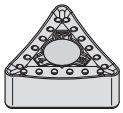
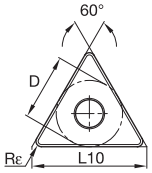
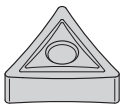
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

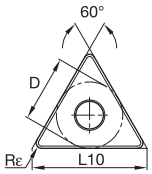




TNMM-RP

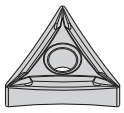
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMM220408RP	12,70	22,00	0,8	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220412RP	12,70	22,00	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
TNMM220416RP	12,70	22,00	1,6	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

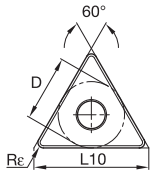




TNMP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMP160404	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
TNMP160408	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
TNMP220416	12,70	22,00	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–





TNMP-K

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
TNMP160404K	9,53	16,50	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMP160408K	9,53	16,50	0,8	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TNMP220408K	12,70	22,00	0,8	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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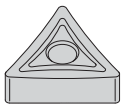
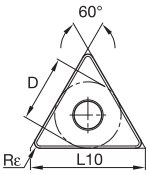
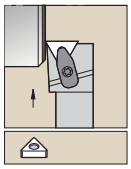
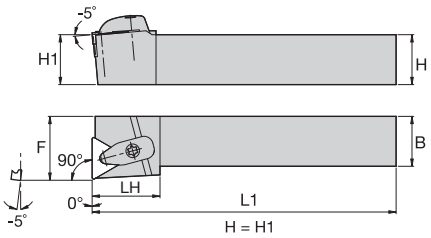


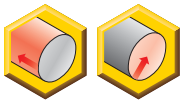


TNMS

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
TNMS160404	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMS160408	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TNMS220408	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–







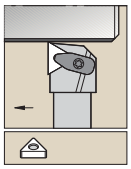
DTFN-KC 90°

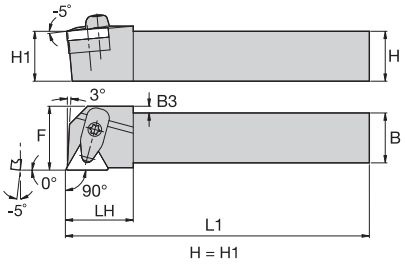


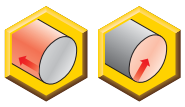




Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü														
2273392	**DTFNR2020K16KC04**	20	20	25,0	125	32,0	TN..160408	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
Sol yönlü														
1875233	**DTFNL2525M22KC04**	25	25	32,0	150	34,0	TN..220408	**ITSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**







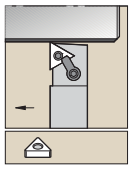
DTGN-KC 90°

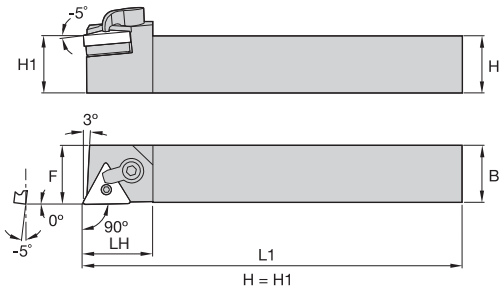






Sipariş numarası	Katalog numarası	H	B	F	L1	LH	B3	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü															
2273440	**DTGNR2020K16KC04**	20	20	25,0	125	25,0	6,5	TN..160408	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2273441	**DTGNR2525M16KC04**	25	25	32,0	150	25,0	–	TN..160408	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1875222	**DTGNR2525M22KC04**	25	25	32,0	150	32,0	3,0	TN..220408	**ITSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**
Sol yönlü															
1875234	**DTGNL2525M22KC04**	25	25	32,0	150	32,0	3,0	TN..220408	**ITSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM46L15IP**



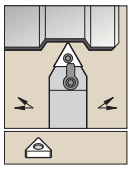


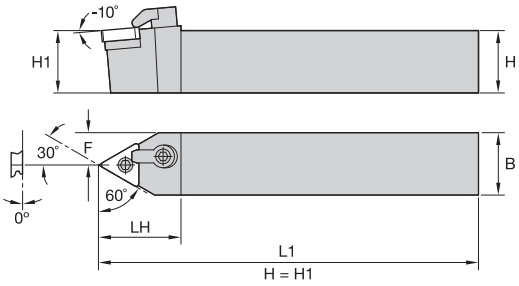


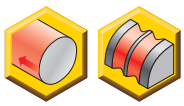
MTAN-S 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1102172	**MTANRS2020K16**	20	20	20,5	125	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1102173	**MTANRS2525M16**	25	25	25,5	150	30,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
Sol yönlü													
1102726	**MTANLS2525M16**	25	25	25,5	150	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm



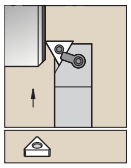


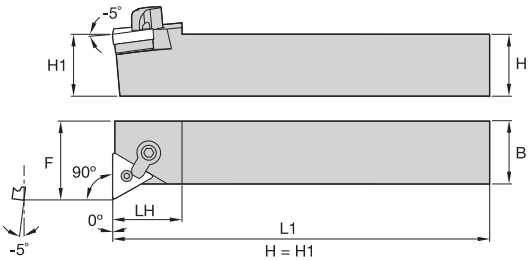


MTEN-S 60°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
1102169	**MTENNS2020K16**	20	20	10,0	125	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1102170	**MTENNS2525M16**	25	25	12,0	150	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1102171	**MTENNS2525M22**	25	25	12,0	150	35,0	TN..220408	**ITSN433**	**KLM46**	2.5 mm	**CKM9**	**STCM4**	4 mm
1102168	**MTENNS3225P22**	32	25	12,0	170	35,0	TN..220408	**ITSN433**	**KLM46**	2.5 mm	**CKM9**	**STCM4**	4 mm



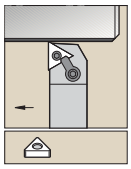


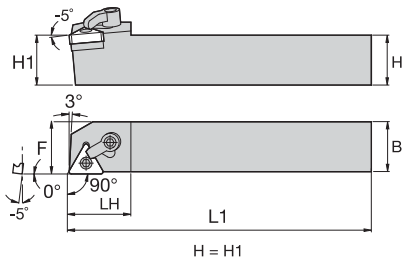


MTFN 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1101961	**MTFNR2525M16**	25	25	32,0	150	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM20**	**STCM11**	3 mm
Sol yönlü													
1102643	**MTFNL2020K16**	20	20	25,0	125	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM20**	**STCM11**	3 mm
1102694	**MTFNL2525M16**	25	25	32,0	150	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM20**	**STCM11**	3 mm



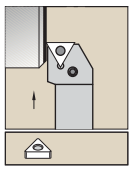


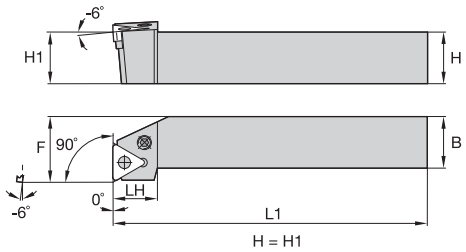


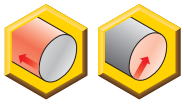
MTGN 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1102091	**MTGNR2525M22**	25	25	32,0	150	32,0	TN..220408	**ITSN433**	**KLM46**	2.5 mm	**CKM9**	**STCM4**	4 mm
1102088	**MTGNR1616H16**	36	25	20,0	100	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM20**	**STCM11**	3 mm
1102090	**MTGNR2525M16**	86	32	32,0	150	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1102093	**MTGNR3232P22**	106	32	40,0	170	32,0	TN..220408	**ITSN433**	**KLM46**	2.5 mm	**CKM9**	**STCM4**	4 mm
Sol yönlü													
1102714	**MTGNL2525M16**	86	32	32,0	150	32,0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1102715	**MTGNL2525M22**	86	38	32,0	150	32,0	TN..220408	**ITSN433**	**KLM46**	2.5 mm	**CKM9**	**STCM4**	4 mm
1102716	**MTGNL3232P22**	106	25	40,0	170	32,0	TN..220408	**ITSN433**	**KLM46**	2.5 mm	**CKM9**	**STCM4**	4 mm



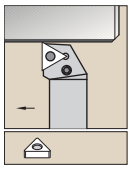


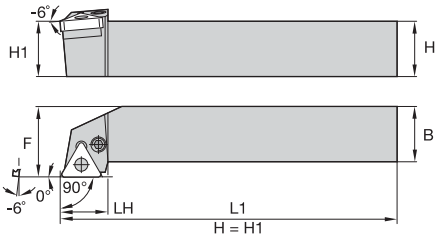


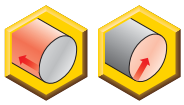
PTFN 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Altıgen
Sağ yönlü													
1244843	**PTFNR2020K16**	20	20	25,0	125	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244844	**PTFNR2525M16**	25	25	32,0	150	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
Sol yönlü													
1244839	**PTFNL2020K16**	20	20	25,0	125	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244726	**PTFNL2525M16**	25	25	32,0	150	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP



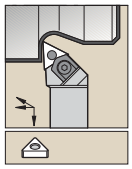


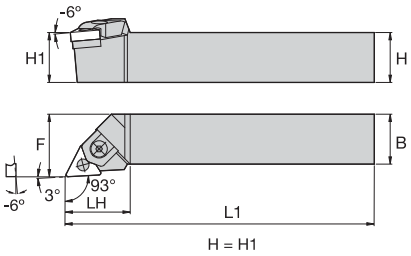


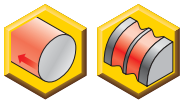
PTGN 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Altıgen
Sağ yönlü													
1156972	**PTGNR1616H16**	16	16	20,0	100	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244850	**PTGNR2020K16**	20	20	25,0	125	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1192394	**PTGNR2525M16**	25	25	32,0	150	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244851	**PTGNR2525M22**	25	25	32,0	150	26,0	TN..220408	**512.023**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
Sol yönlü													
1244791	**PTGNL1616H16**	16	16	20,0	100	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244848	**PTGNL2020K16**	20	20	25,0	125	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244792	**PTGNL2525M16**	25	25	32,0	150	20,0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244778	**PTGNL2525M22**	25	25	32,0	150	26,0	TN..220408	**512.023**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP







MTJN 93°

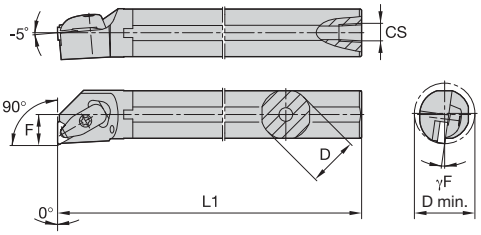




Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık pimi	Bağlama grubu	Altıgen
Sağ yönlü											
1192350	**MTJNR2020K16H4**	20	20	25,0	125	32,0	TN..160408	**512.125**	**513.125**	**551.125**	3 mm
1192352	**MTJNR2525M16H4**	25	25	32,0	150	32,0	TN..160408	**512.125**	**513.125**	**551.125**	3 mm
1245000	**MTJNR2525M22H4**	25	25	32,0	150	36,0	TN..220408	**512.126**	**513.126**	**551.126**	3 mm
1244998	**MTJNR3225P16H4**	32	25	32,0	170	32,0	TN..160408	**512.125**	**513.125**	**551.125**	3 mm
1244999	**MTJNR3225P22H4**	32	25	32,0	170	36,0	TN..220408	**512.126**	**513.126**	**551.126**	3 mm
Sol yönlü											
1244996	**MTJNL2020K16H4**	20	20	25,0	125	32,0	TN..160408	**512.125**	**513.125**	**551.125**	3 mm
1245002	**MTJNL2525M16H4**	25	25	32,0	150	32,0	TN..160408	**512.125**	**513.125**	**551.125**	3 mm
1245001	**MTJNL2525M22H4**	25	25	32,0	150	36,0	TN..220408	**512.126**	**513.126**	**551.126**	3 mm
1244997	**MTJNL3225P16H4**	32	25	32,0	170	32,0	TN..160408	**512.125**	**513.125**	**551.125**	3 mm



İçten soğutmalı çelik şaft.





A-DTFN-KC 90°

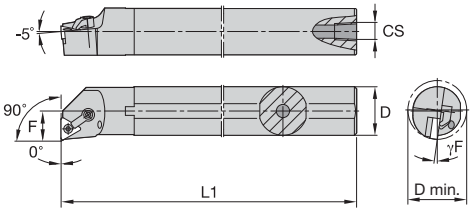


Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Yarıklı pim	Torx Plus
Sağ yönlü														
2441866	**A25RDTFNR16KC04**	25	32,0	17,0	200	1/4-18 NPT	-14.0	TN..160408	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441870	**A32SDTFNR16KC04**	32	40,0	22,0	250	1/4-18 NPT	-12.0	TN..160408	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
Sol yönlü														
2441869	**A25RDTFNL16KC04**	25	32,0	17,0	200	1/4-18 NPT	-14.0	TN..160408	**ITSN323**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP

Kenloc™ Delik işleme baraları



İçten soğutmalı çelik şaft.

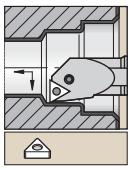




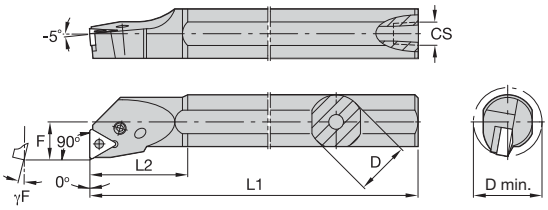
A-MTFN 90°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü														
1098121	**A25RMTFNR16**	25	32,0	17,0	200	1/4-18 NPT	-14.0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1098123	**A32SMTFNR16**	32	40,0	22,0	250	1/4-18 NPT	-12.0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1098125	**A40TMTFNR16**	40	50,0	27,0	300	1/4-18 NPT	-9.0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
Sol yönlü														
1098122	**A25RMTFNL16**	25	32,0	17,0	200	1/4-18 NPT	-14.0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm
1098124	**A32SMTFNL16**	32	40,0	22,0	250	1/4-18 NPT	-12.0	TN..160408	**ITSN322**	**KLM34L**	2 mm	**CKM21**	**STCM20**	3 mm



İçten soğutmalı çelik şaft.

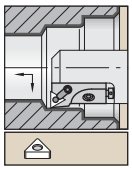


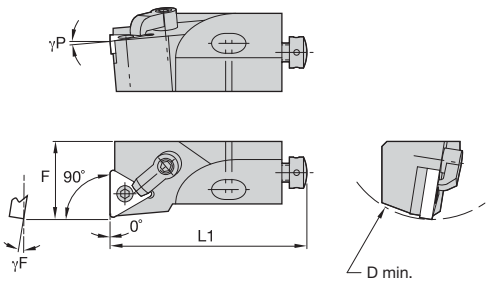


A-PTFN 90°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	CS	γF°	Ayar ucu	Altlık	Altlık pimi	Yarıklı pim	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü															
2447535	**A16RPTFNR11**	16	20,0	11,0	200	28	1/8-27 NPT	-14.0	TN..110304	–	–	–	**511.011**	**514.111**	8 IP
2447536	**A20SPTFNR11**	20	25,0	13,0	250	30	1/8-27 NPT	-12.0	TN..110304	–	–	–	**511.011**	**514.111**	8 IP
2447537	**A25TPTFNR16**	25	32,0	17,0	300	40	1/4-18 NPT	-12.0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
2447539	**A32UPTFNR16**	32	40,0	22,0	350	50	1/4-18 NPT	-10.0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
2447504	**A40VPTFNR22**	40	48,0	27,0	400	55	1/4-18 NPT	-10.0	TN..220408	**512.023**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
Sol yönlü															
2447489	**A20SPTFNL11**	20	25,0	13,0	250	30	1/8-27 NPT	-12.0	TN..110304	–	–	–	**511.011**	**514.111**	8 IP
2447538	**A25TPTFNL16**	25	32,0	17,0	300	40	1/4-18 NPT	-12.0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
2447503	**A32UPTFNL16**	32	40,0	22,0	350	50	1/4-18 NPT	-10.0	TN..160408	**512.013**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP





MTFN 90°

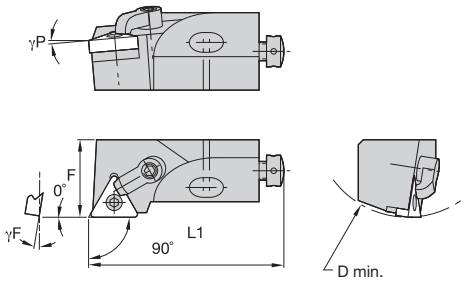
Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
2078236	**MTFNR12CA16**	50	20,0	55	-9.0	-5.0	TN..160408/TN..332
2074429	**MTFNR16CA16**	60	25,0	63	-9.0	-5.0	TN..160408/TN..332
3330208	**MTFNR20CA22**	70	25,0	70	-9.0	-5.0	TN..220408/TN..432
Sol yönlü							
2057426	**MTFNL12CA16**	50	20,0	55	-9.0	-5.0	TN..160408/TN..332
2193621	**MTFNL16CA16**	60	25,0	63	-9.0	-5.0	TN..160408/TN..332
3330207	**MTFNL20CA22**	70	25,0	70	-9.0	-5.0	TN..220408/TN..432

Yedek parçalar



D min.	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	**–**	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**ITSN322**	**KLM34L**	2 mm	**CKM34**	**STCM9**	2 mm	**KUAM25**	2 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
70	**ITSN433**	**KLM46**	2.5 mm	**CKM35**	**STCM37**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**





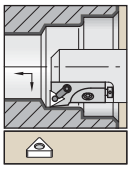
MTGN 90°

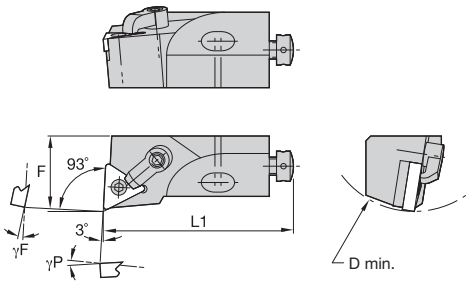
Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
2114041	**MTGNR12CA16**	50	20,0	55	-9.0	-5.0	TN..160408/TN..332
3330285	**MTGNR16CA16**	60	25,0	63	-9.0	-5.0	TN..160408/TN..332
Sol yönlü							
3346275	**MTGNL12CA16**	50	20,0	55	-9.0	-5.0	TN..160408/TN..332
3330209	**MTGNL20CA22**	70	25,0	70	-9.0	-5.0	TN..220408/TN..432

Yedek parçalar



D min.	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	**–**	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**ITSN322**	**KLM34L**	2 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
70	**ITSN433**	**KLM46**	2.5 mm	**CKM35**	**STCM37**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**





MTUN 93°

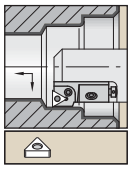
Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098536	**MTUNR20CA22**	70	25,0	70	-9.0	-5.0	TN..220408/TN..432
Sol yönlü							
1098529	**MTUNL12CA16**	50	20,0	55	-9.0	-5.0	TN..160408/TN..332
1098535	**MTUNL16CA16**	60	25,0	63	-9.0	-5.0	TN..160408/TN..332

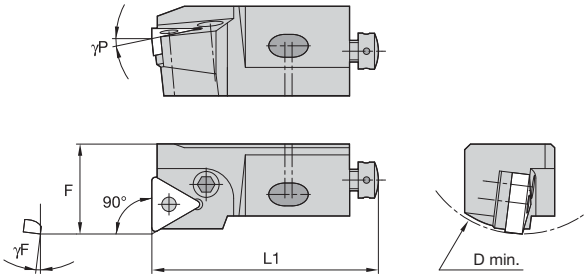
NOT: Seçilen D min.ve kesici uç ölçüsüne göre yedek parçalar seçilir.

Yedek parçalar



D min.	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	**–**	**KLM33L**	2 mm	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**ITSN322**	**KLM34L**	2 mm	**CKM34**	**STCM9**	2.5 mm	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**
70	**ITSN433**	**KLM46**	–	**CKM35**	**STCM37**	2.5 mm	**KUAM25**	2.5 mm	**KUAM33**	**191.407**	5 mm	**CSWM 080 050**





PTFN 90°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1188641	**PTFNR12CA-16**	50	20,0	55	-7.0	-6.0	TN..160408/TN..332
Sol yönlü							
1244457	**PTFNL12CA-16**	50	20,0	55	-7.0	-6.0	TN..160408/TN..332

Yedek parçalar



D min.	Mafsallı levye	Levye vidası	Levye vidası anahtar ölçüsü	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	**511.030**	**514.112**	8 IP	**KUAM28**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**

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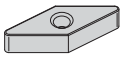
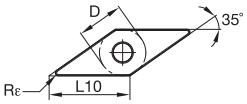
○ Alternatif tercih

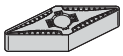
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M										○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																									●	●	●	●	●	●	●	
S																									●	●	●	●	●	●		
H																																

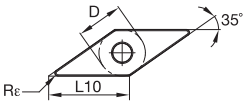




VNGA

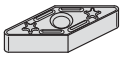
ISO Katalog numarası	D	L10	Rε
VNGA160404	9,53	16,61	0,4
VNGA160408	9,53	16,61	0,8

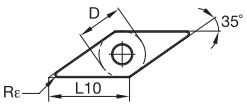




VNGG-FS

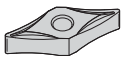
ISO Katalog numarası	D	L10	Rε
VNGG160401FS	9,53	16,61	0,1
VNGG160402FS	9,53	16,61	0,2
VNGG160404FS	9,53	16,61	0,4
VNGG160408FS	9,53	16,61	0,8

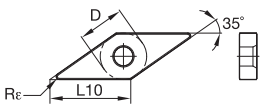




VNGG-LF

ISO Katalog numarası	D	L10	Rε
VNGG160402LF	9,53	16,61	0,2
VNGG160404LF	9,53	16,61	0,4
VNGG160408LF	9,53	16,61	0,8
VNGG220408LF	12,70	22,14	0,8





VNGP

ISO Katalog numarası	D	L10	Rε
VNGP160401	9,53	16,61	0,1
VNGP160402	9,53	16,61	0,2
VNGP220404	12,70	22,14	0,4
VNGP220408	12,70	22,14	0,8

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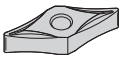
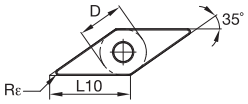
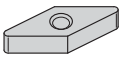
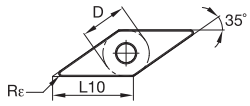




VNGP-K

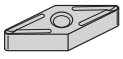
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
VNGP160404K	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–
VNGP160408K	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–
VPGP443K	12,70	22,14	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

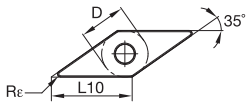




VNMA

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMA160408	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

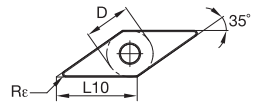




VNMG

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMG160412	9,53	16,61	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMG220408	12,70	22,14	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMG220412	12,70	22,14	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–





VNMG-LF

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408LF	9,53	16,61	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220404LF	12,70	22,14	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220408LF	12,70	22,14	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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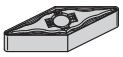
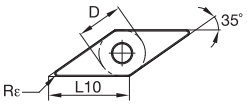
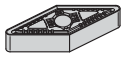
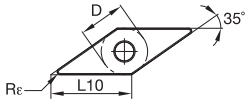




VNMG-FF

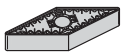
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404FF	9,53	16,61	0,4	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●
VNMG160408FF	9,53	16,61	0,8	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●

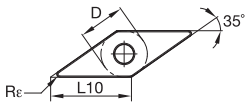




VNMG-FN

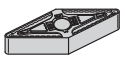
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404FN	9,53	16,61	0,4	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
VNMG160408FN	9,53	16,61	0,8	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

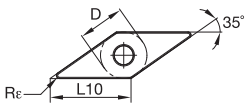




VNMG-FP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404FP	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●
VNMG160408FP	9,53	16,61	0,8	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	●





VNMG-MN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404MN	9,53	16,61	0,4	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160408MN	9,53	16,61	0,8	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160412MN	9,53	16,61	1,2	–	–	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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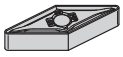
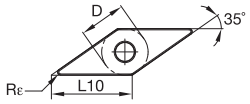
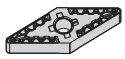
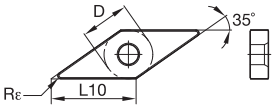




VNMG-MP

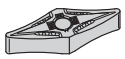
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
VNMG160404MP	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	–	●	–	–	–
VNMG160408MP	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	●	–	●	–	–	–
VNMG160412MP	9,53	16,61	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	–

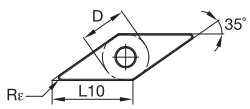




VNMG-MR

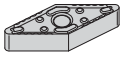
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160412MR	9,52	16,61	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160408MR	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–

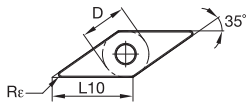




VNMG-MS

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160401MS	9,53	16,61	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
VNMG160402MS	9,53	16,61	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
VNMG160404MS	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
VNMG160408MS	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
VNMG220404MS	12,70	22,14	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
VNMG220408MS	12,70	22,14	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–





VNMG-P

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404P	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–
VNMG160408P	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–

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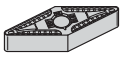
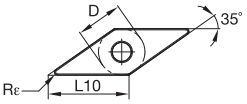
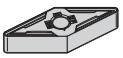
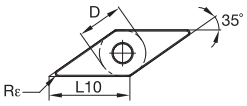




VNMG-RN

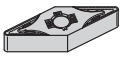
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408RN	9,53	16,61	0,8	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160412RN	9,53	16,61	1,2	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220408RN	12,70	22,14	0,8	–	–	●	●	●	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG220412RN	12,70	22,14	1,2	–	–	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

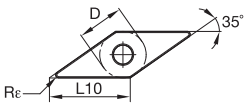




VNMG-RP

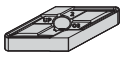
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160408RP	9,53	16,61	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	●	●	●	–	–	–
VNMG160412RP	9,53	16,61	1,2	–	–	–	●	–	●	–	–	–	–	–	–	●	●	–	●	–	–	–	●	–	–	–	–	–	●	●	–	●	–	–

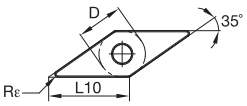




VNMG-UN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404UN	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
VNMG160408UN	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





VNMG-UP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMG160404UP	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–
VNMG160408UP	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	–	●	–	–	–
VNMG160412UP	9,53	16,61	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

P		●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M											○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K		○	○	○	○	○	○						●	●	●	●	●	●								●	●	●	●	●	●		●
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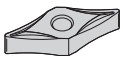
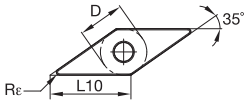
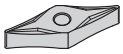
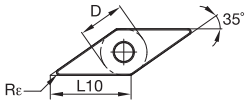




VNMP

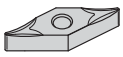
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMP160404	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–
VNMP160408	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–

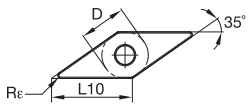




VNMP-K

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMP160404K	9,53	16,61	0,4	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VNMP160408K	9,53	16,61	0,8	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

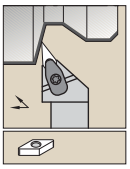


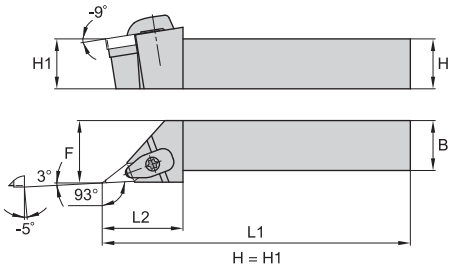


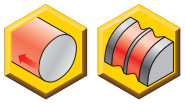
VNMS

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
VNMS160404	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
VNMS160408	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–

	P	M	K	N	S	H	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Karbür	●	○	○				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
Cermet	○	●	○												○	○							●	●	●	●	●	●		●	●	●	●	●	●	●		●
Seramik																																			
PCBN																																			
PCD																																			



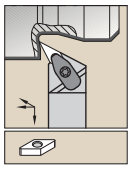


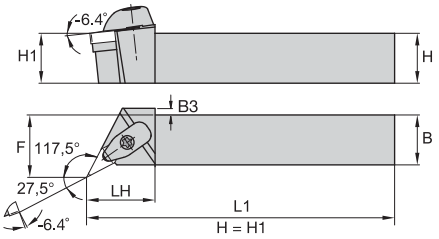


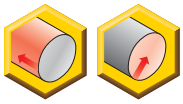
DVJN-KC 93°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü														
2439399	**DVJNR2020K16KC04**	20	20	25,0	125	46,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439401	**DVJNR2525M16KC04**	25	25	32,0	150	46,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439443	**DVJNR3225P16KC04**	32	25	32,0	170	46,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
Sol yönlü														
2439400	**DVJNL2020K16KC04**	20	20	25,0	125	46,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439402	**DVJNL2525M16KC04**	25	25	32,0	150	46,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439444	**DVJNL3225P16KC04**	32	25	32,0	170	46,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**



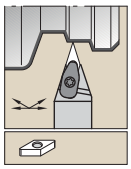


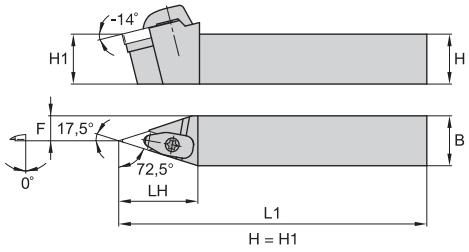


DVON-KC 117,5°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	B3	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü															
2439449	**DVONR2020K16KC04**	20	20	27,0	125	38,0	5,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439451	**DVONR2525M16KC04**	25	25	32,0	150	38,0	—	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439453	**DVONR3225P16KC04**	32	25	32,0	170	38,0	—	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
Sol yönlü															
2439450	**DVONL2020K16KC04**	20	20	27,0	125	38,0	5,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439452	**DVONL2525M16KC04**	25	25	32,0	150	38,0	—	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439454	**DVONL3225P16KC04**	32	25	32,0	170	38,0	—	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**



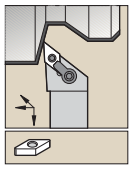


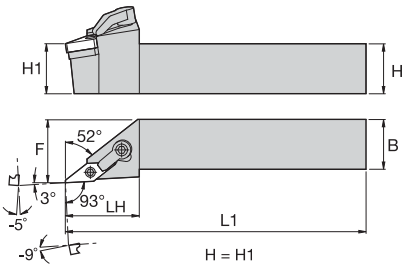


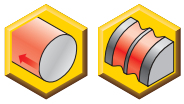
DVVN-KC 72,5°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
2439455	**DVVNN2020K16KC04**	20	20	10,0	150	48,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439456	**DVVNN2525M16KC04**	25	25	12,0	150	48,0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**



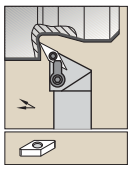


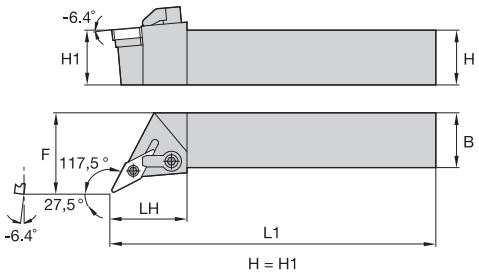


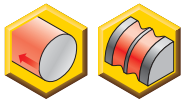
MVJN 93°



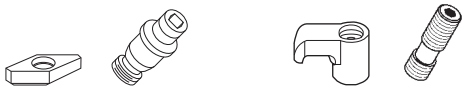
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1101362	**MVJNR2020K16**	20	20	25,0	125	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1101634	**MVJNR2525M16**	25	25	32,0	150	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1101363	**MVJNR3225P16**	32	25	32,0	170	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1101635	**MVJNR3225P22**	32	25	32,0	170	50,0	VN..220408	**IVSN432**	**KLM46**	2.5 mm	**CKM26**	**STCM4**	4 mm
3612649	**MVJNR3232P16**	32	32	40,5	171	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
Sol yönlü													
1102320	**MVJNL2020K16**	20	20	25,0	125	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1102321	**MVJNL2525M16**	25	25	32,0	150	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1102322	**MVJNL3225P16**	32	25	32,0	170	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1102323	**MVJNL3225P22**	32	25	32,0	170	50,0	VN..220408	**IVSN432**	**KLM46**	2.5 mm	**CKM26**	**STCM4**	4 mm
3612650	**MVJNL3232P16**	32	32	40,5	170	37,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm



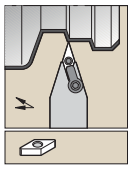


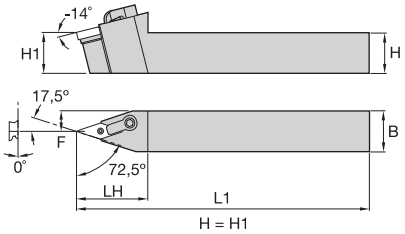


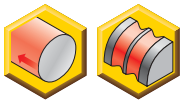
MVON 117,5°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1102238	**MVONR2525M16**	25	25	32,0	150	30,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
Sol yönlü													
1102730	**MVONL2525M16**	25	25	32,0	150	30,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm



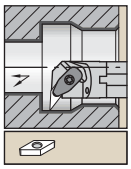




MVVN 72,5°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
1102723	**MVVNN2525M22**	25	25	12,0	150	55,0	VN..220408	**IVSN432**	**KLM46**	2.5 mm	**CKM26**	**STCM4**	4 mm
1102720	**MVVNN2020K16**	42	20	10,0	125	42,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1102721	**MVVNN2525M16**	66	25	12,5	150	42,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
1102722	**MVVNN3225P16**	86	32	12,5	170	42,0	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm



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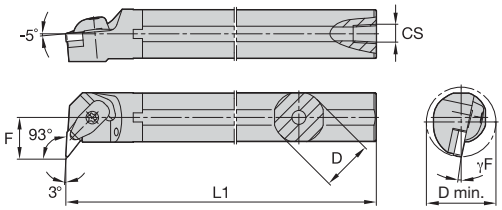
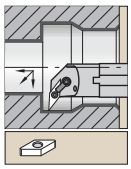




A-DVUN-KC 93°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Yarıklı pim	Torx Plus
Sağ yönlü														
2441916	**A32SDVUNR16KC04**	32	40,0	22,0	250	1/4-18 NPT	-9.0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441918	**A40TDVUNR16KC04**	40	50,0	27,0	300	1/4-18 NPT	-8.0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	**SSP025016M**	15 IP
Sol yönlü														
2441917	**A32SDVUNL16KC04**	32	40,0	22,0	250	1/4-18 NPT	-9.0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441919	**A40TDVUNL16KC04**	40	50,0	27,0	300	1/4-18 NPT	-8.0	VN..160408	**IVSN322**	**KMSP315IP**	15 IP	**CM215R ASSY**	**SSP025016M**	15 IP



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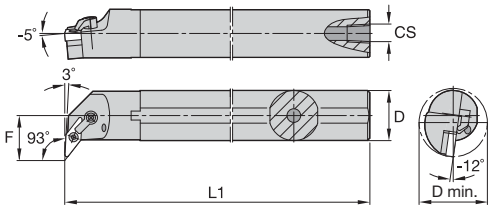
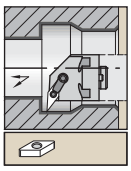


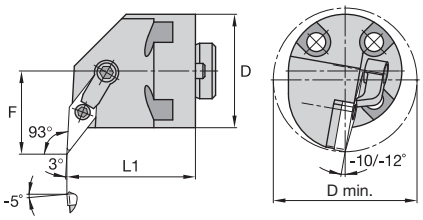
A-MVUN 93°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1098128	**A25RMVUNR16**	25	37,0	22,0	200	1/4-18 NPT	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM26**	3 mm
1098130	**A32SMVUNR16**	32	40,0	22,0	250	1/4-18 NPT	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm
Sol yönlü													
1098129	**A25RMVUNL16**	25	37,0	22,0	200	1/4-18 NPT	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM26**	3 mm
1098131	**A32SMVUNL16**	32	40,0	22,0	250	1/4-18 NPT	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM31**	**STCM20**	3 mm



İçten soğutmalı.



H-MVUN 93°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü												
3612215	**H40MVUNR16**	40	50,0	27,0	41	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM22**	**STCM20**	3 mm
3612219	**H50MVUNR16**	50	63,0	35,0	41	VN..160408	**IVSN322**	**KLM34L**	2 mm	**CKM22**	**STCM20**	3 mm

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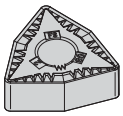
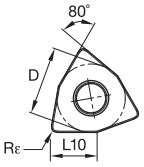
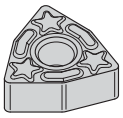
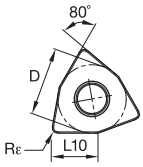




WNGG-FS

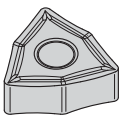
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●							●	●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
WNGG080404FS	12,70	8,69	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
WNGG080408FS	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

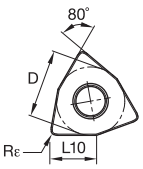




WNGG-LF

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNGG080401LF	12,70	8,69	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
WNGG080402LF	12,70	8,69	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNGG080404LF	12,70	8,69	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNGG080408LF	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–





WNGP-K

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNGP080408K	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–

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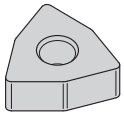
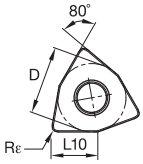
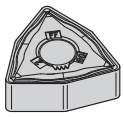
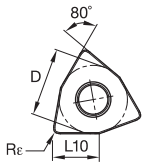




WNMA

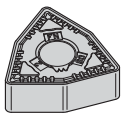
ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMA060408	9,53	6,52	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA060412	9,53	6,52	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA080408	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA080412	12,70	8,69	1,2	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMA080416	12,70	8,69	1,6	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

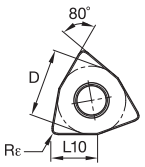




WNMG-FF

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404FF	9,53	6,52	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
WNMG060408FF	9,53	6,52	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●
WNMG080404FF	12,70	8,69	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080408FF	12,70	8,69	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–





WNMG-FN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060404FN	9,53	6,52	0,4	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
WNMG060408FN	9,53	6,52	0,8	–	–	–	●	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
WNMG080404FN	12,70	8,69	0,4	–	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
WNMG080408FN	12,70	8,69	0,8	–	●	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

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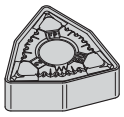
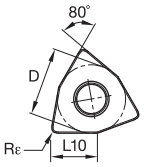
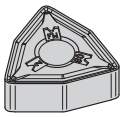
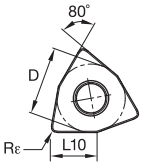




WNMG-FP

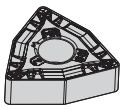
		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																													
WNMG060404FP	9,53	6,52	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG060408FP	9,53	6,52	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–
WNMG080404FP	12,70	8,69	0,4	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080408FP	12,70	8,69	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080412FP	12,70	8,69	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–

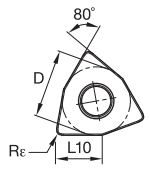




WNMG-FW

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																													
WNMG060404FW	9,53	6,52	0,4	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
WNMG060408FW	9,53	6,52	0,8	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
WNMG060412FW	9,53	6,52	1,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080404FW	12,70	8,69	0,4	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	●
WNMG080408FW	12,70	8,69	0,8	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●
WNMG080412FW	12,70	8,69	1,2	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–







WNMG-MG

		KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																													
WNMG080408MG	12,70	8,69	0,8	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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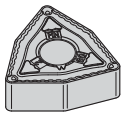
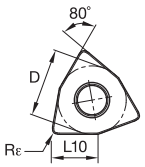
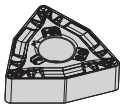
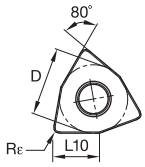




WNMG-MN

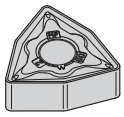
				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
WNMG060404MN	9,53	6,52	0,4	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG060408MN	9,53	6,52	0,8	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG060412MN	9,53	6,52	1,2	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MN	12,70	8,69	0,8	–	●	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080412MN	12,70	8,69	1,2	–	–	●	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080416MN	12,70	8,69	1,6	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

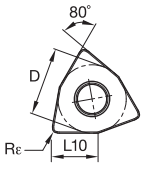




WNMG-MR

				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
WNMG060408MR	9,53	6,52	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MR	12,70	8,69	0,8	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	●	–	●	–	●	–	–	●	–	–	–	–	–
WNMG080412MR	12,70	8,69	1,2	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	●	–	–	–	–	–	–	–	–
WNMG080416MR	12,70	8,69	1,6	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





WNMG-MP

				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
WNMG060404MP	9,53	6,52	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	●	–	●	–	–	–
WNMG060408MP	9,53	6,52	0,8	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	●	–	●	–	–	–
WNMG060412MP	9,53	6,52	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MP	12,70	8,69	0,8	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	–	–	–	●	–	●	–	–	–
WNMG080412MP	12,70	8,69	1,2	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–	–	●	–	●	–	–	–

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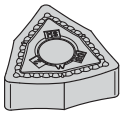
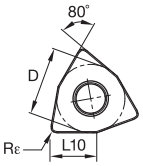
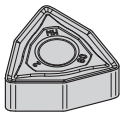
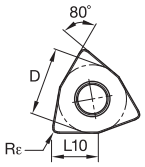




WNMG-MS

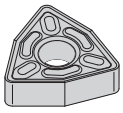
				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
WNMG060408MS	9,53	6,52	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–
WNMG080401MS	12,70	8,69	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
WNMG080402MS	12,70	8,69	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–
WNMG080404MS	12,70	8,69	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
WNMG080408MS	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–

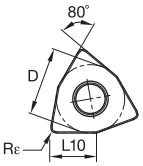




WNMG-MW

				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
WNMG060408MW	9,53	6,52	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408MW	12,70	8,69	0,8	–	●	●	●	●	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
WNMG080412MW	12,70	8,69	1,2	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–





WNMG-P

				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
WNMG080404P	12,70	8,69	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	–
WNMG080408P	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	–

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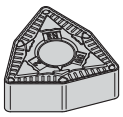
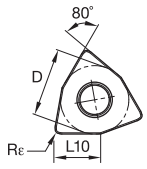
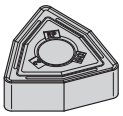
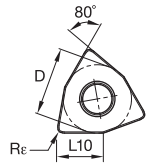




WNMG-RN

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
P				●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●		●
M												○	○							●	●	●	●	●	●		●	●	●	●	●	●		●
K				○	○	○	○	○	○					●	●	●	●	●	●								●	●	●	●	●	●		●
N																											●	●	●	●	●	●	●	
S																											●	●	●	●	●	●		
H																																		
WNMG060408RN	9,53	6,52	0,8	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG060412RN	9,53	6,52	1,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408RN	12,70	8,69	0,8	–	–	●	●	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080412RN	12,70	8,69	1,2	–	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
WNMG080416RN	12,70	8,69	1,6	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





WNMG-RP

ISO Katalog numarası	D	L10	Rε	KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
WNMG060408RP	9,53	6,52	0,8	–	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	●	●	–	–	–
WNMG060412RP	9,53	6,52	1,2	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408RP	12,70	8,69	0,8	–	●	●	●	●	●	●	–	●	–	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–	●	●	●	●	–	–
WNMG080412RP	12,70	8,69	1,2	–	●	●	●	●	●	–	●	–	–	–	●	●	●	●	●	–	●	●	●	●	●	●	–	–	●	●	●	–	–	–
WNMG080416RP	12,70	8,69	1,6	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

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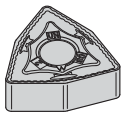
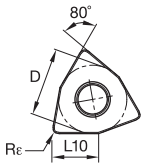
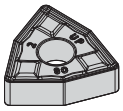
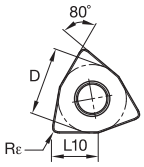




WNMG-UN

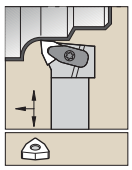
				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
WNMG060408UN	9,53	6,52	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080404UN	12,70	8,69	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080408UN	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080412UN	12,70	8,69	1,2	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WNMG080416UN	12,70	8,69	1,6	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

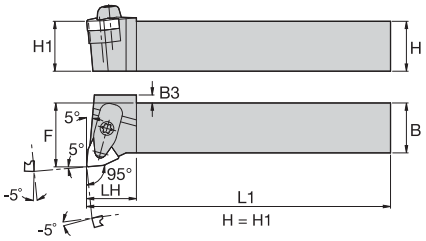




WNMG-UP

				KCP05B	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30B	KCP30	KCP40B	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35B	KCM35	KCPK05	K313	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KT315
ISO Katalog numarası	**D**	**L10**	**Rε**																															
WNMG060408UP	9,53	6,52	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–
WNMG080408UP	12,70	8,69	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	–	●	–	–	–
WNMG080412UP	12,70	8,69	1,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	●	–	●	–	–	–

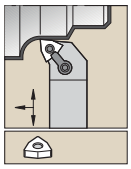


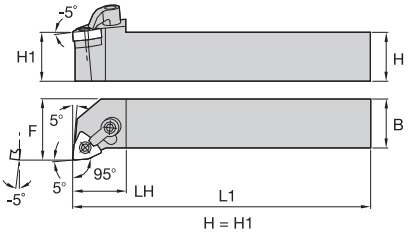


DWLN-KC 95°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	B3	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Torx Plus	Yarıklı pim	Seçenekli kilit pimi
Sağ yönlü															
2439476	**DWLNR2020K06KC04**	20	20	25,0	125	31,0	—	WN..060408	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439471	**DWLNR2020K08KC04**	20	20	25,0	125	33,0	—	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
2273451	**DWLNR2525M06KC04**	25	25	32,0	150	25,0	—	WN..060408	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1908860	**DWLNR2525M08KC04**	25	25	32,0	150	25,0	4,0	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1908862	**DWLNR3232P08KC04**	32	32	40,0	170	25,0	—	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
Sol yönlü															
2439470	**DWLNL2020K06KC04**	20	20	25,0	125	31,0	—	WN..060408	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
2439472	**DWLNL2020K08KC04**	20	20	25,0	125	33,0	—	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
2273455	**DWLNL2525M06KC04**	25	25	32,0	150	25,0	—	WN..060408	**IWSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM34L9IP**
1908861	**DWLNL2525M08KC04**	25	25	32,0	150	25,0	4,0	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**
1908893	**DWLNL3232P08KC04**	32	32	40,0	170	25,0	—	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**	**KLM4615IP**





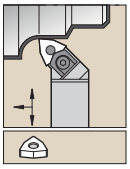


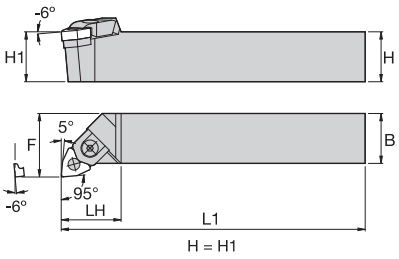
MWLN 95°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1101293	**MWLNR2020K06**	20	20	25,0	125	25,0	WN..060408	**IWSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1101355	**MWLNR2525M06**	25	25	32,0	150	25,0	WN..060408	**IWSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
3612259	**MWLNR3232P08**	32	32	40,0	170	32,0	WNMA080408	**IWSN433**	**KLM46**	2.5 mm	**CKM7**	**STCM5**	2.5 mm
Sol yönlü													
1101292	**MWLNL2020K06**	20	20	25,0	125	25,0	WN..060408	**IWSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1101354	**MWLNL2525M06**	25	25	32,0	150	25,0	WN..060408	**IWSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
3612260	**MWLNL3232P08**	32	32	40,0	170	32,0	WNMA080408	**IWSN433**	**KLM46**	2.5 mm	**CKM7**	**STCM5**	2.5 mm

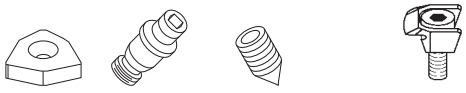
Wedgelock™ Takım tutucular • Wedgelock Kesici uçlar



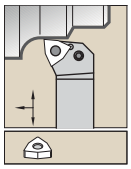


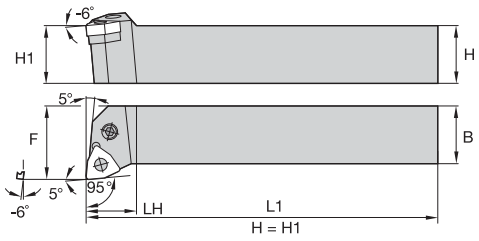


MWLN 95°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Kilitleme pimi	Ayar vidası	Torx	Bağlama grubu	Altıgen
Sağ yönlü													
1244924	**MWLNR2020K08H4**	20	20	25,0	125	32,0	WN..080408	**512.131**	**513.132**	**192.636**	T15	**551.131**	3 mm
1192355	**MWLNR2525M08H4**	25	25	32,0	150	36,0	WN..080408	**512.131**	**513.132**	**192.636**	T15	**551.131**	3 mm
1244925	**MWLNR3225P08H4**	32	25	32,0	170	36,0	WN..080408	**512.131**	**513.132**	**192.636**	T15	**551.131**	3 mm
Sol yönlü													
1244921	**MWLNL2020K08H4**	20	20	25,0	125	32,0	WN..080408	**512.131**	**513.132**	**192.636**	T15	**551.131**	3 mm
1244922	**MWLNL2525M08H4**	25	25	32,0	150	36,0	WN..080408	**512.131**	**513.132**	**192.636**	T15	**551.131**	3 mm
1244923	**MWLNL3225P08H4**	32	25	32,0	170	36,0	WN..080408	**512.131**	**513.132**	**192.636**	T15	**551.131**	3 mm





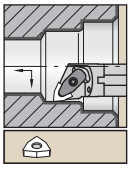


PWLN 95°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık pimi	Baskı pimi	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü													
1244771	**PWLNR1616H06**	16	16	20,0	100	14,0	WN..060404	**512.134**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1192397	**PWLNR2020K06**	20	20	25,0	125	14,0	WN..060404	**512.134**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1192398	**PWLNR2020K08**	20	20	25,0	125	20,0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1192399	**PWLNR2525M08**	25	25	32,0	150	26,0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244772	**PWLNR3225P08**	32	25	32,0	170	26,0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
Sol yönlü													
1192396	**PWLNL1616H06**	16	16	20,0	100	14,0	WN..060404	**512.134**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244767	**PWLNL2020K06**	20	20	25,0	125	14,0	WN..060404	**512.134**	**513.018**	**515.018**	**511.018**	**514.118**	10 IP
1244768	**PWLNL2020K08**	20	20	25,0	125	20,0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244769	**PWLNL2525M08**	25	25	32,0	150	26,0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244770	**PWLNL3225P08**	32	25	32,0	170	26,0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP

Kenclamp™ Delik işleme baraları



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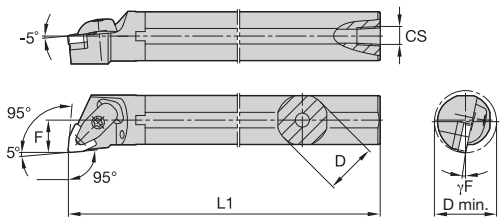
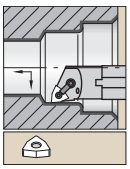




A-DWLN-KC 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	Ayar ucu	Altlık	Altlık vidası	Torx Plus	Bağlama grubu	Yarıklı pim	Torx Plus
Sağ yönlü														
2441921	**A25RDWLNR06KC04**	25	32,0	17,0	200	1/4-18 NPT	-14.0	WN..060408	–	–	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441923	**A25RDWLNR08KC04**	25	32,0	17,0	200	1/4-18 NPT	-12.0	WN..080408	–	–	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441925	**A32SDWLNR08KC04**	32	40,0	22,0	250	1/4-18 NPT	-14.0	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
2441927	**A40TDWLNR08KC04**	40	50,0	27,0	300	1/4-18 NPT	-14.0	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP
Sol yönlü														
2441922	**A25RDWLNL06KC04**	25	32,0	17,0	200	1/4-18 NPT	-14.0	WN..060408	–	–	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441924	**A25RDWLNL08KC04**	25	32,0	17,0	200	1/4-18 NPT	-12.0	WN..080408	–	–	–	**CM234R ASSY**	**SSP025016M**	15 IP
2441926	**A32SDWLNL08KC04**	32	40,0	22,0	250	1/4-18 NPT	-14.0	WN..080408	**IWSN433**	**KMSP415IP**	15 IP	**CM234R ASSY**	**SSP025016M**	15 IP



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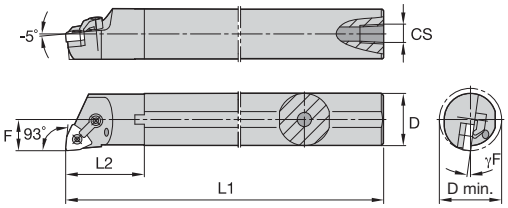
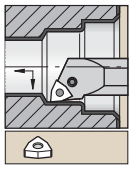




A-MWLN 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	LH	CS	γF°	Ayar ucu	Altlık	Kilitleme pimi	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü															
1098771	**A25RMWLNR06**	25	32,0	17,0	200	—	1/4-18 NPT	-12.0	WN..060408	**—**	**KLM33L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1098773	**A25RMWLNR08**	25	32,0	17,0	200	39,0	1/4-18 NPT	-12.0	WN..080408	**—**	**KLM43**	2 mm	**CKM20**	**STCM11**	3 mm
1098772	**A32SMWLNR06**	32	40,0	22,0	250	—	1/4-18 NPT	-10.0	WN..060408	**IWSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1098774	**A32SMWLNR08**	32	40,0	22,0	250	39,7	1/4-18 NPT	-14.0	WN..080408	**IWSN433**	**KLM46**	2.5 mm	**CKM20**	**STCM20**	3 mm
1098775	**A40TMWLNR08**	40	50,0	27,0	300	41,6	1/4-18 NPT	-12.0	WN..080408	**IWSN433**	**KLM46**	2.5 mm	**CKM20**	**STCM20**	3 mm
Sol yönlü															
1098783	**A25RMWLNL08**	25	32,0	17,0	200	39,0	1/4-18 NPT	-12.0	WN..080408	**—**	**KLM43**	2 mm	**CKM20**	**STCM11**	3 mm
1098782	**A32SMWLNL06**	32	40,0	22,0	250	—	1/4-18 NPT	-10.0	WN..060408	**IWSN322**	**KLM34L**	2 mm	**CKM6**	**STCM5**	2.5 mm
1098784	**A32SMWLNL08**	32	40,0	22,0	251	39,7	1/4-18 NPT	-14.0	WN..080408	**IWSN433**	**KLM46**	2.5 mm	**CKM20**	**STCM20**	3 mm
1098785	**A40TMWLNL08**	40	50,0	27,0	300	41,6	1/4-18 NPT	-12.0	WN..080408	**IWSN433**	**KLM46**	2.5 mm	**CKM20**	**STCM20**	3 mm



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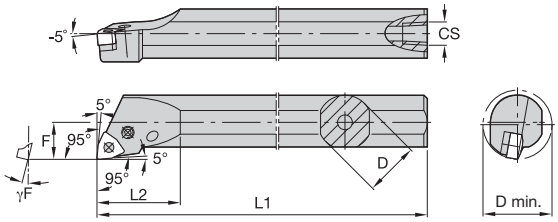




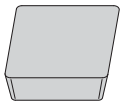
A-PWLN 95°

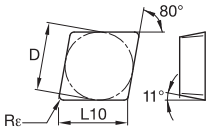


Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	CS	γF°	Ayar ucu	Altlık	Altlık pimi	Yarıklı pim	Mafsallı levye	Levye vidası	Torx Plus
Sağ yönlü															
1244113	**A16RPWLNR06**	16	27,0	11,0	200	32	1/8-27 NPT	-12.0	WN..060404	–	–	–	**511.030**	**514.112**	–
1244115	**A20SPWLNR06**	20	25,0	13,0	250	–	1/8-27 NPT	-14.0	WN..060408	–	–	–	**511.030**	**514.112**	8 IP
1194440	**A25RPWLNR08**	25	32,0	17,0	200	–	1/4-18 NPT	-12.0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244118	**A32SPWLNR08**	32	40,0	22,0	250	50	1/4-18 NPT	-10.0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	–
1244120	**A40TPWLNR08**	40	50,0	27,0	300	54	1/4-18 NPT	-8.0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	–
Sol yönlü															
1191396	**A16RPWLNL06**	16	27,0	11,0	200	32	1/8-27 NPT	-12.0	WN..060404	–	–	–	**511.030**	**514.112**	–
1244114	**A20SPWLNL06**	20	25,0	13,0	250	–	1/8-27 NPT	-14.0	WN..060408	–	–	–	**511.030**	**514.112**	8 IP
1244116	**A25RPWLNL08**	25	32,0	17,0	200	–	1/4-18 NPT	-12.0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	15 IP
1244117	**A32SPWLNL08**	32	40,0	22,0	250	50	1/4-18 NPT	-10.0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	–
1244119	**A40TPWLNL08**	40	50,0	27,0	300	54	1/4-18 NPT	-8.0	WN..080408	**512.135**	**513.023**	**515.018**	**511.023**	**514.123**	–

● İlk tercih
○ Alternatif tercih

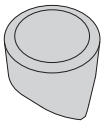
		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

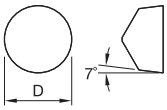




CPGN

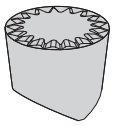
ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
CPGN120304	12,70	12,90	0,4	–	–	–	●	●	–	–	–
CPGN120308	12,70	12,90	0,8	–	–	–	●	●	–	–	–

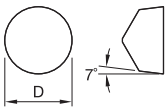




RCGV

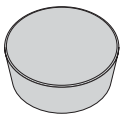
ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RCGV060400	6,35	—	—	–	–	–	–	–	–	●	●
RCGV090700	9,53	—	—	–	–	–	–	–	–	–	●
RCGV120700	12,70	—	—	–	–	–	●	–	–	–	●

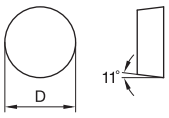




RCGV-MP

ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RCGX060400MP	6,35	—	—	–	–	–	–	–	●	–	–
RCGX120700MP	12,70	—	—	–	–	–	–	–	●	–	–



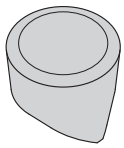
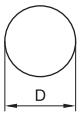


RPGN

ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RPGN120300	12,70	—	—	–	–	–	●	–	–	–	–

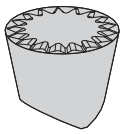
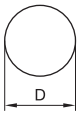
● İlk tercih
○ Alternatif tercih

		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

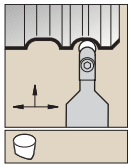
RPGV

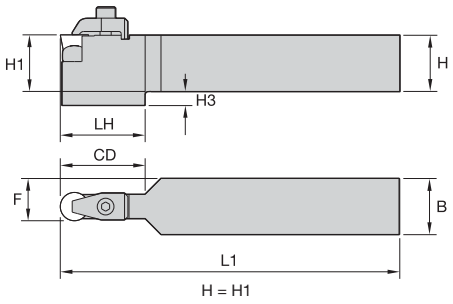
ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RPGV060400	6,35	–	–	–	–	–	–	–	–	–	●
RPGV090700	9,53	–	–	–	–	–	–	–	–	–	●
RPGV120700	12,70	–	–	–	–	–	–	–	–	–	●

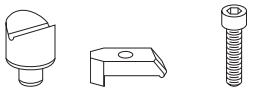
RPGV-MP

ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
RPGX060400MP	6,35	–	–	–	–	–	–	–	●	–	–
RPGX090700MP	9,53	–	–	–	–	–	–	–	●	–	–
RPGV120700MP	12,70	–	–	–	–	–	–	–	–	–	●
RPGX120700MP	12,70	–	–	–	–	–	–	–	●	–	–



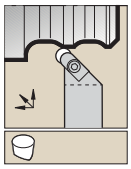


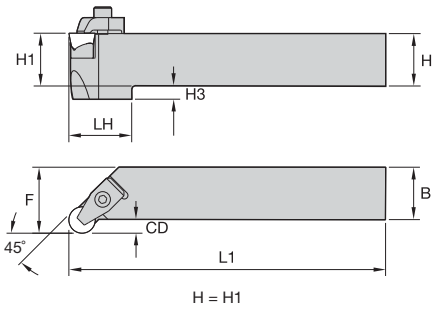
CRDP



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	H3	CD	Ayar ucu	Yuva pimi	Çene	Sıkma vidası	Altıgen
3642247	**CRDPN2525M06V**	25	25	12,5	151	–	–	19,0	RPGX060400E	**NST1**	**CM214**	**MS1321**	2.5 mm
3642249	**CRDPN3232P09V**	32	32	16,0	171	–	–	29,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm
3642248	**CRDPN2525M09V**	25	25	12,5	151	–	–	29,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm
3642251	**CRDPN3232P12V**	32	32	16,0	171	–	–	38,0	RPGX120700E	**NST3**	**CM216**	**CS412**	3.5 mm
3642252	**CRDPN3232P15V**	32	32	16,0	171	38,1	6,4	38,0	RPGX151000	**NST4**	**CM217**	**MS1294**	6 mm

NOT: CRDP takım tutucular RPGX ve RCGX kesici uç tipleri ile kullanabilir.





CRGP

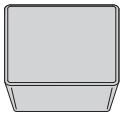


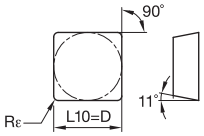
Sipariş numarası	Katalog numarası	H	B	F	L1	CD	Ayar ucu	Yuva pimi	Çene	Sıkma vidası	Altıgen
Sağ yönlü											
3642276	**CRGPR2525M06V**	25	25	32,0	151	7,0	RPGX060400E	**NST1**	**CM214**	**MS1321**	2.5 mm
3642280	**CRGPR3232P09V**	32	32	40,0	171	8,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm
Sol yönlü											
3642277	**CRGPL2525M06V**	25	25	32,0	151	7,0	RPGX060400E	**NST1**	**CM214**	**MS1321**	2.5 mm
3642281	**CRGPL3232P09V**	32	32	40,0	171	8,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm

NOT: CRGP takım tutucular RPGX ve RCGX kesici uç tipleriyle kullanabilir.

● İlk tercih
○ Alternatif tercih

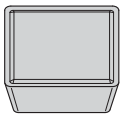
		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

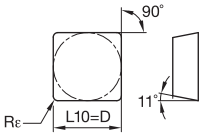




SPGN

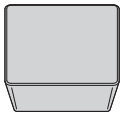
ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
SPGN090304	9,53	9,53	0,4	–	–	–	–	●	–	–	●
SPGN090308	9,53	9,53	0,8	–	–	●	–	●	–	–	●
SPGN120304	12,70	12,70	0,4	–	–	–	–	●	–	●	●
SPGN120308	12,70	12,70	0,8	–	–	–	●	●	–	●	●
SPGN120312	12,70	12,70	1,2	–	–	–	–	●	–	–	–
SPGN120412	12,70	12,70	1,2	–	–	–	–	–	–	●	–
SPGN120316	12,70	12,70	1,6	–	–	–	–	–	–	–	●
SPGN190408	19,05	19,05	0,8	–	–	–	–	●	–	–	–
SPGN190412	19,05	19,05	1,2	–	–	–	●	–	–	●	–

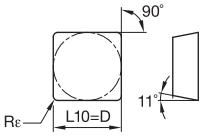




SPGR–K

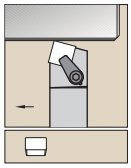
ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
SPGR090308K	9,53	9,53	0,8	–	–	–	–	–	–	●	●
SPGR120308K	12,70	12,70	0,8	●	–	–	–	–	–	–	–

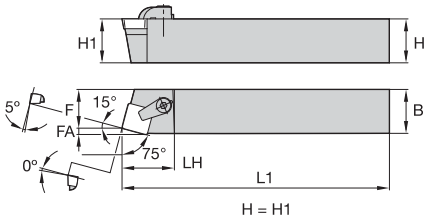




SPUN

ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
SPUN120304	12,70	12,70	0,4	●	–	–	–	●	–	–	–
SPUN120308	12,70	12,70	0,8	●	–	–	–	●	–	–	–
SPUN120312	12,70	12,70	1,2	●	–	–	–	–	–	–	–

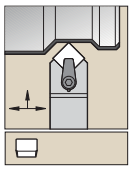


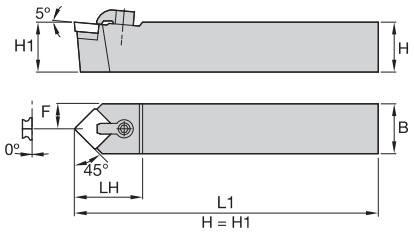


CSBP 75°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü														
1097750	**CSBPR2020K12**	20	20	17,0	125	30,0	3,1	SP..120308	**SM840**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm

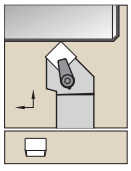


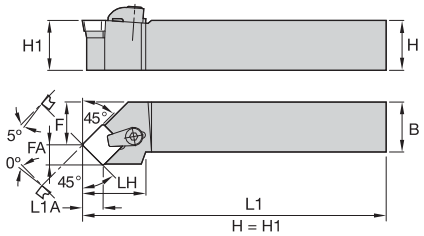


CSDP 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen
1097754	**CSDPN2020K12**	20	20	10,0	125	32,0	SP..120308	**SM840**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1097755	**CSDPN2525M12**	25	25	12,5	150	32,0	SP..120308	**SM840**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm

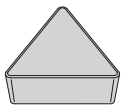


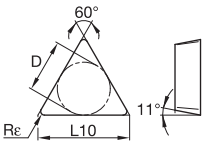


CSSP 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	L1A	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü															
1244605	**CSSPR2020K12**	20	20	25,0	125	32,0	8,7	8,3	SP..120308	**SM840**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1244606	**CSSPR2525M12**	25	25	32,0	150	32,0	8,7	8,3	SP..120308	**SM840**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm
Sol yönlü															
1244604	**CSSPL2525M12**	25	25	32,0	150	32,0	8,7	8,3	SP..120308	**SM840**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm



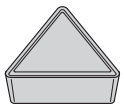


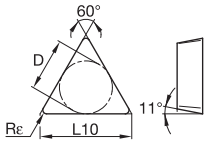
● İlk tercih
○ Alternatif tercih

		KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
P		●	○	○	●	●		●	●
M					●	●	●	●	●
K		○	●	●	●	●		●	●
N					●	●		●	●
S					●	●	●	●	●
H									

TPGN/TPG

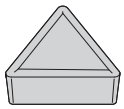
ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPGN110304	6,35	11,00	0,4	–	–	–	●	●	–	●	●
TPGN110308	6,35	11,00	0,8	–	–	–	–	●	–	●	●
TPGN160302	9,53	16,50	0,2	–	–	–	●	●	–	–	●
TPGN160304	9,53	16,50	0,4	–	–	–	●	●	–	●	●
TPGN160308	9,53	16,50	0,8	–	–	–	●	●	–	●	●
TPGN160312	9,53	16,50	1,2	–	–	–	●	–	–	–	●
TPGN160316	9,53	16,50	1,6	–	–	–	–	●	–	–	●
TPGN220404	12,70	22,00	0,4	–	–	–	●	●	–	●	●
TPGN220408	12,70	22,00	0,8	●	–	–	●	●	–	●	●
TPGN220412	12,70	22,00	1,2	–	–	–	–	●	–	●	●
TPGN220416	12,70	22,00	1,6	–	–	–	–	●	–	–	●

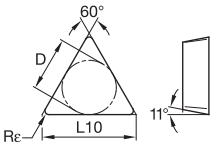




TPGR–K

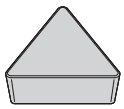
ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPGR110304K	6,35	11,00	0,4	–	–	–	–	–	–	–	●
TPGR110308K	6,35	11,00	0,8	–	–	–	–	–	–	●	–
TPGR160304K	9,53	16,50	0,4	–	–	–	–	–	–	●	●
TPGR160308K	9,53	16,50	0,8	●	–	–	–	–	–	●	●
TPGR220404K	12,70	22,00	0,4	–	–	–	–	–	–	●	–
TPGR220408K	12,70	22,00	0,8	–	–	–	–	–	–	●	–

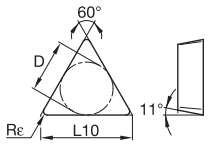




TPMR

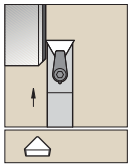
ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPMR110304	6,35	11,00	0,4	●	●	–	–	–	–	–	–
TPMR110308	6,35	11,00	0,8	●	–	–	–	–	–	–	–
TPMR160304	9,53	16,50	0,4	●	●	–	–	–	–	–	–
TPMR160308	9,53	16,50	0,8	●	●	–	–	–	–	–	–
TPMR220408	12,70	22,00	0,8	●	–	–	–	–	–	–	–

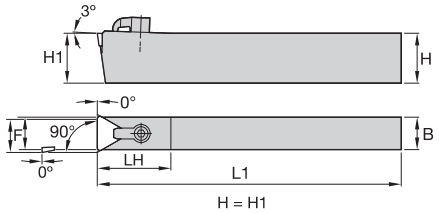




TPUN

ISO Katalog numarası	D	L10	Rε	KCP25B	KCK15B	KCK15	K313	K68	KCS10	KCU10	KC5010
TPUN110304	6,35	11,00	0,4	–	●	–	–	●	–	–	–
TPUN110308	6,35	11,00	0,8	–	●	–	–	●	–	–	–
TPUN160304	9,53	16,50	0,4	●	●	–	–	●	–	–	–
TPUN160308	9,53	16,50	0,8	●	●	–	–	●	–	–	–
TPUN220408	12,70	22,00	0,8	●	●	–	–	●	–	–	–
TPUN220412	12,70	22,00	1,2	●	●	–	–	●	–	–	–

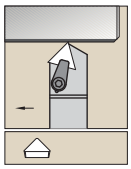


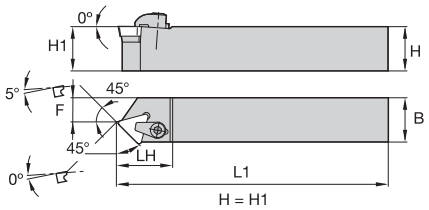


CTCPN 90°

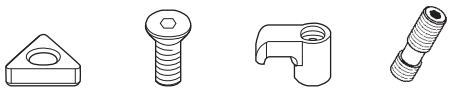


Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen
1097775	**CTCPN2510M11**	25	10	10,0	150	26,0	TP..110304	**SM819**	**MS960**	–	**CKM7**	**STCM5**	2.5 mm
1097776	**CTCPN2514M16**	25	14	14,4	150	28,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM13**	**STCM4**	4 mm
1097781	**CTCPN2518M22**	25	18	19,2	150	41,0	TP..220408	**SM837**	**MS125**	2.5 mm	**CKM13**	**STCM4**	4 mm
1097778	**CTCPN2520M22**	25	20	20,2	150	41,0	TP..220408	**SM837**	**MS125**	2.5 mm	**CKM13**	**STCM4**	4 mm

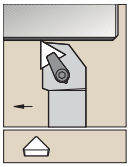


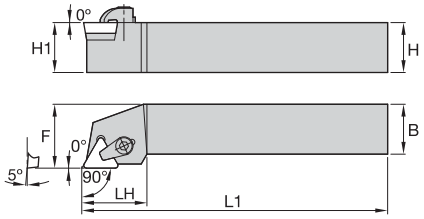


CTDP 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Çene	Sıkma vidası	Altıgen
Sağ yönlü												
1244613	**CTDPR1212F11**	12	12	6,0	80	22,0	TP..110304	**SM819**	**MS960**	**CKM19**	**STCM9**	2.5 mm

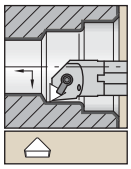




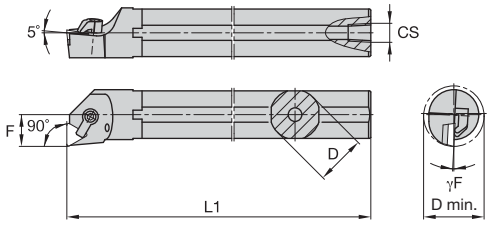
CTGP 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1097762	**CTGPR1212F11**	12	12	16,0	80	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1097763	**CTGPR1616H11**	16	16	20,0	100	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1244595	**CTGPR2020K11**	20	20	25,0	125	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1097764	**CTGPR2020K16**	20	20	25,0	125	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1097765	**CTGPR2525M16**	25	25	32,0	150	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm
Sol yönlü													
1097916	**CTGPL1212F11**	12	12	16,0	80	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1097918	**CTGPL2020K16**	20	20	25,0	125	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1097919	**CTGPL2525M16**	25	25	32,0	150	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm



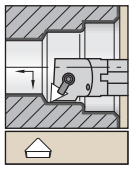
İçten soğutmalı çelik şaft.



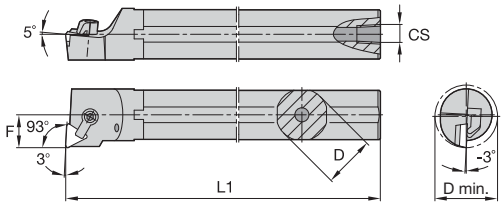
A-CTFP 90°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü														
1886492	**A16RCTFPR11**	16	20,0	11,0	200	1/8-27 NPT	-4.0	TP..110304	**–**	**–**	–	**CKM19**	**STCM9**	2.5 mm
1098051	**A20QCTFPR11**	20	25,0	13,0	180	1/8-27 NPT	0.0	TP..110304	**SM815**	**MS961**	–	**CKM19**	**STCM9**	2.5 mm
1098053	**A25RCTFPR16**	25	32,0	17,0	200	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
1098055	**A32SCTFPR16**	32	40,0	22,0	250	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
1886494	**A40VCTFPR16**	40	48,0	27,0	400	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
Sol yönlü														
1098054	**A25RCTFPL16**	25	32,0	17,0	200	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
1098056	**A32SCTFPL16**	32	40,0	22,0	250	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm



İçten soğutmalı çelik şaft.



A-CTUP 93°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	Ayar ucu	Altlık	Altlık vidası	Çene	Sıkma vidası	Altıgen
Sağ yönlü												
1098057	**A16MCTUPR11**	16	20,0	11,0	150	1/8-27 NPT	TP..110304	**SM815**	**MS961**	**CKM19**	**STCM9**	2.5 mm
Sol yönlü												
1098058	**A16MCTUPL11**	16	20,0	11,0	150	1/8-27 NPT	TP..110304	**SM815**	**MS961**	**CKM19**	**STCM9**	2.5 mm

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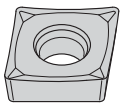
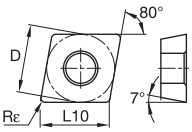
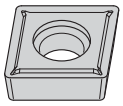
○ Alternatif tercih

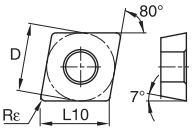




CCGT-HP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
				M								○							●	●	●	●	●	●	●	●	●	●	●	●		●	●
				K		○	○	○	○	○			●	●	●	●	●							●	●	●		●	●	●	●		●	●
				N																			●	●	●		●	●	●	●	●		
				S																			●	●	●	●	●	●	●	●			
				H																													
CCGT060202HP	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	–	●	●	–	–
CCGT060204HP	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CCGT060208HP	6,35	6,45	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
CCGT09T302HP	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CCGT09T304HP	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CCGT09T308HP	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
CCGT120402HP	12,70	12,90	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
CCGT120404HP	12,70	12,90	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
CCGT120408HP	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	–	●	–	–





CCGT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCGT0602X0LF	6,35	6,45	0,0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CCGT060201LF	6,35	6,45	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT060202LF	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT060204LF	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT060208LF	6,35	6,45	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
CCGT09T3X0LF	9,53	9,67	0,0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
CCGT09T301LF	9,53	9,67	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT09T302LF	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CCGT09T304LF	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CCGT09T308LF	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	–	–	–

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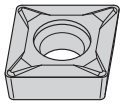
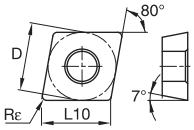
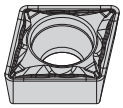
○ Alternatif tercih

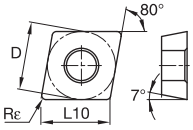




CCMT-11

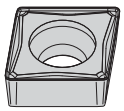
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
CCMT060202411	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
CCMT09T30411	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
CCMT09T30811	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

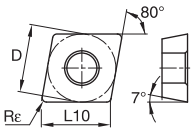




CCMT-FP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060202FP	6,35	6,45	0,2	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	–	–	–	–	–
CCMT060204FP	6,35	6,45	0,4	●	●	●	●	●	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	●
CCMT060208FP	6,35	6,45	0,8	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	–	–	–	–	●
CCMT09T302FP	9,53	9,67	0,2	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	–	–	–	–	●
CCMT09T304FP	9,53	9,67	0,4	●	●	–	●	●	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	●	●	–	–	–	–	●
CCMT09T308FP	9,53	9,67	0,8	–	●	●	●	●	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–	–	–	●	●	–	–	–	–	●
CCMT120404FP	12,70	12,90	0,4	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–
CCMT120408FP	12,70	12,90	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT120412FP	12,70	12,90	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





CCMT-FW

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060202FW	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CCMT060204FW	6,35	6,45	0,4	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CCMT060208FW	6,35	6,45	0,8	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CCMT09T304FW	9,53	9,67	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CCMT09T308FW	9,53	9,67	0,8	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–

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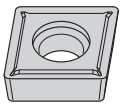
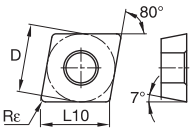
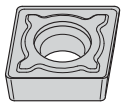
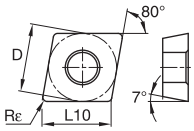




CCMT-LF

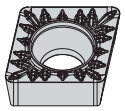
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
CCMT060202LF	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
CCMT060204LF	6,35	6,45	0,4	–	●	●	●	●	●	–	–	●	●	●	●	●	●	●	●	●	–	–	●	–	–	–	–	●	●	–	●	–
CCMT060208LF	6,35	6,45	0,8	●	–	●	●	●	●	–	●	●	●	●	●	–	●	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
CCMT09T302LF	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	●	–
CCMT09T304LF	9,53	9,67	0,4	–	●	●	●	●	●	–	–	●	●	●	–	●	●	–	●	●	●	–	●	–	–	–	–	●	●	–	●	–
CCMT09T308LF	9,53	9,67	0,8	●	●	●	●	●	●	–	–	●	●	●	●	●	●	–	●	●	●	–	●	–	–	–	–	●	–	–	●	–
CCMT120404LF	12,70	12,90	0,4	–	–	●	●	●	●	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
CCMT120408LF	12,70	12,90	0,8	–	●	●	●	●	–	–	–	–	–	●	●	●	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	–
CCMT120412LF	12,70	12,90	1,2	–	–	●	●	–	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

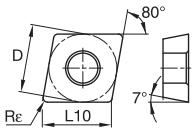




CCMT-MF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060204MF	6,35	6,45	0,4	–	●	●	●	●	●	–	–	–	–	●	–	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CCMT09T304MF	9,53	9,67	0,4	–	●	–	●	●	●	–	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CCMT09T308MF	9,53	9,67	0,8	–	●	–	●	●	●	–	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	●	–	–	–
CCMT09T312MF	9,53	9,67	1,2	–	–	●	●	●	–	–	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMT120408MF	12,70	12,90	0,8	–	●	●	●	●	●	–	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CCMT120412MF	12,70	12,90	1,2	–	–	–	●	●	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–





CCMT-MP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060204MP	6,35	6,45	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT09T304MP	9,53	9,67	0,4	–	–	●	–	●	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT09T308MP	9,53	9,67	0,8	–	–	●	–	●	–	–	–	–	–	–	●	●	●	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT09T312MP	9,53	9,67	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
CCMT120408MP	12,70	12,90	0,8	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–
CCMT120412MP	12,70	12,90	1,2	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–

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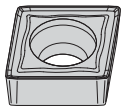
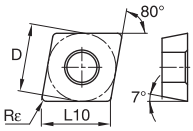
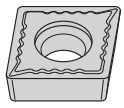
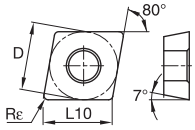




CCMT-MW

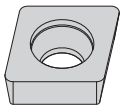
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT09T304MW	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CCMT09T308MW	9,53	9,67	0,8	–	–	–	–	●	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CCMT120404MW	12,70	12,90	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT120408MW	12,70	12,90	0,8	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

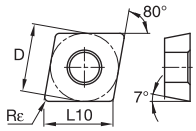




CCMT-UF

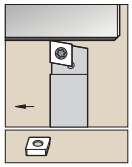
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMT060204UF	6,35	6,45	0,4	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT09T302UF	9,53	9,67	0,2	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT09T304UF	9,53	9,67	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CCMT09T308UF	9,53	9,67	0,8	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

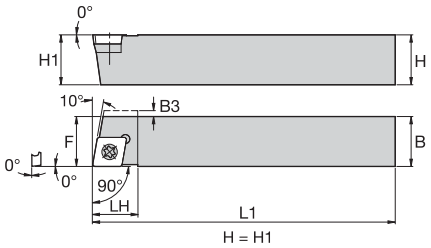


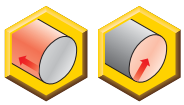


CCMW

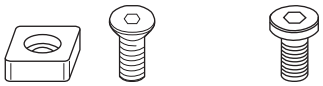
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CCMW060204	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMW09T308	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMW120408	12,70	12,90	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCMW120412	12,70	12,90	1,2	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



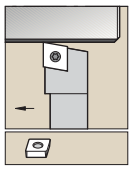


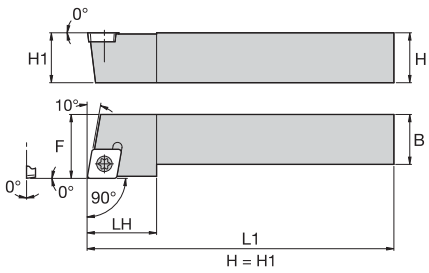


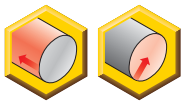
SCAC 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Altıgen
Sağ yönlü												
1097708	**SCACR1010M06Q**	10	10	10,0	150	11,0	CC..060204	–	–	–	**MS1153**	T7
1097710	**SCACR1212M06Q**	12	12	12,0	150	11,0	CC..060204	–	–	–	**MS1153**	T7
1097714	**SCACR1616K09Q**	16	16	16,0	125	16,0	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15



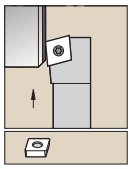


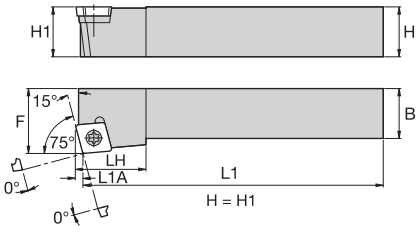


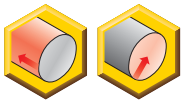
SCGC 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü									
1097824	**SCGCR1010M06**	10	10	12,0	150	11,0	CC..060204	**MS1153**	T7
1097825	**SCGCR1212N09**	12	12	16,0	160	16,0	CC..09T308	**MS1155**	T15
Sol yönlü									
1097970	**SCGCL1212N09**	12	12	16,0	160	16,0	CC..09T308	**MS1155**	T15





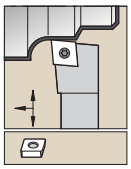


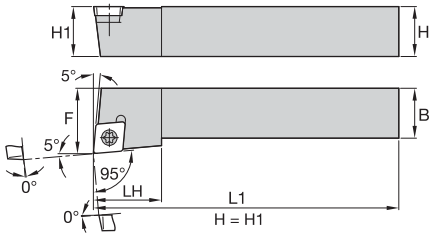
SCKC 75°





Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü													
1097840	**SCKCR2020K09**	20	20	25,0	125	16,0	2,3	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15





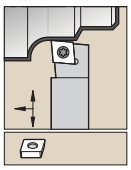


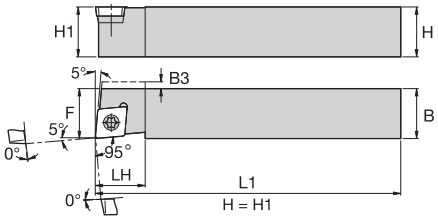
SCLC 95°





Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü												
1097814	**SCLCR0808L06**	8	8	10,0	140	12,0	CC..060204	–	–	–	**MS1153**	T7
1097816	**SCLCR1010M06**	10	10	12,0	150	12,0	CC..060204	–	–	–	**MS1153**	T7
1097818	**SCLCR1212N09**	12	12	16,0	160	16,0	CC..09T308	–	–	–	**MS1155**	T15
1097819	**SCLCR1616H09**	16	16	20,0	100	15,8	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097821	**SCLCR2020K09**	20	20	25,0	125	15,8	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097820	**SCLCR2020K12**	20	20	25,0	125	19,8	CC..120408	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
1244995	**SCLCR2525M09**	25	25	32,0	150	15,8	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097822	**SCLCR2525M12**	25	25	32,0	150	20,0	CC..120408	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
Sol yönlü												
1097959	**SCLCL0808L06**	8	8	10,0	140	12,0	CC..060204	–	–	–	**MS1153**	T7
1097961	**SCLCL1010M06**	10	10	12,0	150	12,0	CC..060204	–	–	–	**MS1153**	T7
1097963	**SCLCL1212N09**	12	12	16,0	160	16,0	CC..09T308	–	–	–	**MS1155**	T15
1097964	**SCLCL1616H09**	16	16	20,0	100	15,8	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097966	**SCLCL2020K09**	20	20	25,0	125	15,8	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097965	**SCLCL2020K12**	20	20	25,0	125	19,8	CC..120408	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
1318353	**SCLCL2525M09**	25	25	32,0	150	15,8	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097967	**SCLCL2525M12**	25	25	32,0	150	20,0	CC..120408	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15



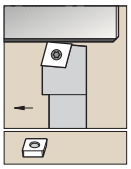


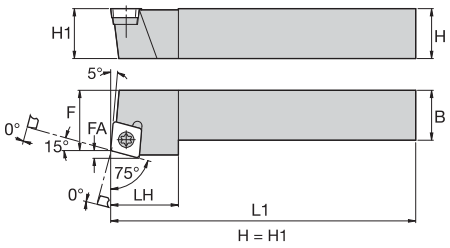


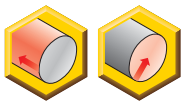
SCLC-F 95°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	B3	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü													
1772152	**SCLCRF0808M06Q**	8	8	8,0	150	12,0	1,5	CC..060204	–	–	–	**MS1153**	T7
1097812	**SCLCRF1010M06Q**	10	10	10,0	150	11,0	–	CC..060204	–	–	–	**MS1153**	T7
1097813	**SCLCRF1212M06Q**	12	12	12,0	150	11,0	–	CC..060204	–	–	–	**MS1153**	T7
1097817	**SCLCRF1616K09Q**	16	16	16,0	125	16,0	–	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15



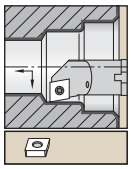




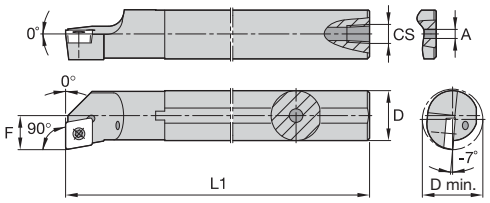
SCRC 75°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü													
1097828	**SCRCR1212N09**	12	12	13,0	160	14,0	2,3	CC..09T308	–	–	–	**MS1155**	T15
1097829	**SCRCR1616H09**	16	16	17,0	100	14,0	2,3	CC..09T308	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15



İçten soğutmalı çelik şaft.

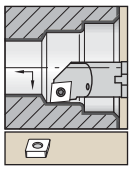




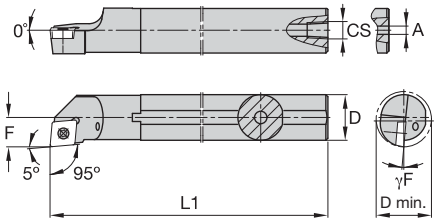
A-SCFC 90°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü									
1098266	**A25TSCFCR12**	25	32,0	17,0	300	1/4-18 NPT	CC..120408	**MS1157**	T15
Sol yönlü									
1098270	**A25TSCFCL12**	25	32,0	17,0	300	1/4-18 NPT	CC..120408	**MS1157**	T15



İçten soğutmalı çelik şaft.

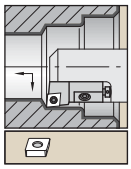


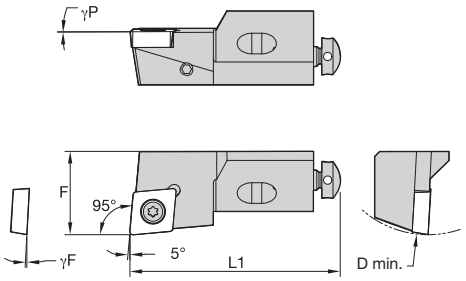


A-SCLC 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	CS	γF°	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü														
1098159	**A08JSCLCR06**	8	11,0	6,0	110	2,4	–	-8.0	CC..060204	–	–	–	**MS1939**	T7
1098168	**A10KSCLCR06**	10	13,0	7,0	125	3,2	–	-7.0	CC..060204	–	–	–	**MS1153**	T7
1098178	**A12MSCLCR06**	12	16,0	9,0	150	4,0	1/16-27 NPT	-6.0	CC..060204	–	–	–	**MS1153**	T7
1098225	**A16RSCLCR09**	16	20,0	11,0	200	4,0	1/8-27 NPT	-7.0	CC..09T308	–	–	–	**MS1155**	T15
1098239	**A20SSCLCR09**	20	25,0	13,0	250	4,0	1/8-27 NPT	-5.0	CC..09T308	–	–	–	**MS1155**	T15
1098268	**A25TSCLCR12**	25	32,0	17,0	300	6,4	1/4-18 NPT	-7.0	CC..120408	–	–	–	**MS1157**	T15
1098280	**A32TSCLCR12**	32	40,0	22,0	300	6,4	1/4-18 NPT	-7.0	CC..120408	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
Sol yönlü														
1098163	**A08JSCLCL06**	8	11,0	6,0	110	2,4	–	-8.0	CC..060204	–	–	–	**MS1939**	T7
1098173	**A10KSCLCL06**	10	13,0	7,0	25	3,2	–	-7.0	CC..060204	–	–	–	**MS1153**	T7
1098183	**A12MSCLCL06**	12	16,0	9,0	150	4,0	1/16-27 NPT	-6.0	CC..060204	–	–	–	**MS1153**	T7
1098231	**A16RSCLCL09**	16	20,0	11,0	200	4,0	1/8-27 NPT	-7.0	CC..09T308	–	–	–	**MS1155**	T15
1098244	**A20SSCLCL09**	20	25,0	13,0	250	4,0	1/8-27 NPT	-5.0	CC..09T308	–	–	–	**MS1155**	T15
1098272	**A25TSCLCL12**	25	32,0	17,0	300	6,4	1/4-18 NPT	-7.0	CC..120408	–	–	–	**MS1157**	T15
1098282	**A32TSCLCL12**	32	40,0	22,0	300	6,4	1/4-18 NPT	-7.0	CC..120408	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15





SCLC 95°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098544	**SCLCR12CA12**	50	20,0	55	-3.0	0.0	CC..120408/CC..432
1098545	**SCLCR16CA12**	60	25,0	63	-3.0	0.0	CC..120408/CC..432
Sol yönlü							
1098732	**SCLCL12CA12**	50	20,0	55	-3.0	0.0	CC..120408/CC..432

Yedek parçalar

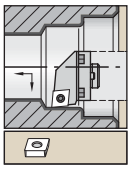




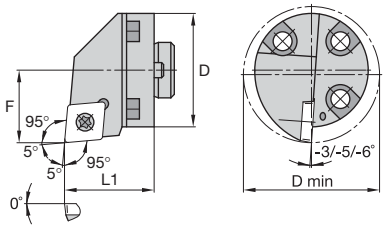


D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**MS1157**	T15	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**

Vida bağlamalı delik işleme kafaları



İçten soğutmalı.

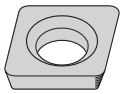


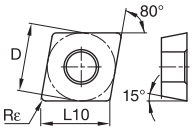
H-SCLC 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü								
1772253	**H32SCLCR09**	32	40,0	21,9	25	CC..09T308	**MS1155**	T15
3612090	**H40SCLCR12**	40	50,0	27,0	41	CC..120408	**MS1158**	T15

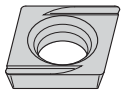
● İlk tercih
○ Alternatif tercih

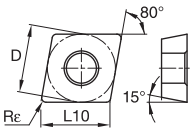




CDHB

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CDHBS4T0S0	3,97	4,03	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–
CDHBS4T0X0	3,97	4,03	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CDHBS4T002	3,97	4,03	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	–	●	–
CDHBS4T004	3,97	4,03	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–

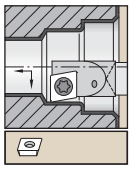




CDHH

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CDHHS4T002L	3,97	4,03	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–
CDHHS4T002R	3,97	4,03	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–
CDHHS4T004L	3,97	4,03	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–
CDHHS4T004R	3,97	4,03	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–

NOT: Sağ yönlü kesici uçlar sol yönlü baralarla kullanır. Sol yönlü kesici uçlar sağ yönlü baralarla kullanır.



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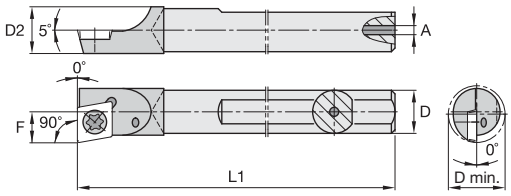
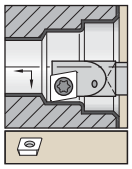




E-SCFD 90°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü									
1930354	**E05HSCFDRS4**	5	5,9	3,2	101	1,0	CD..S4T002	**CC11**	T6
1930360	**E06HSCFDRS4**	6	7,1	3,7	100	1,2	CD..S4T002	**CC11**	T6



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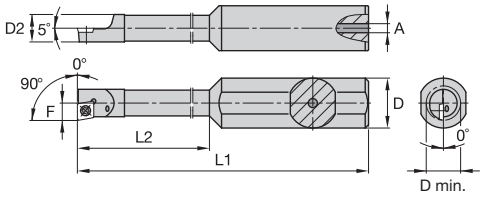
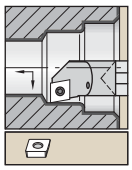




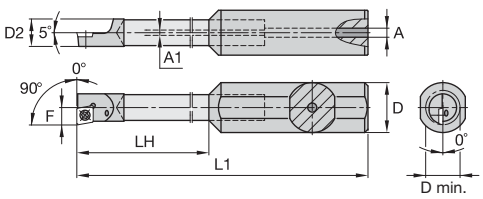
A-SCFD 90° • Kademeli



Sipariş numarası	Katalog numarası	D	D min.	D2	F	L1	L2	A	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü											
1930376	**A0510ESCFDRS412**	10	5,9	5,2	3,1	70	12,7	1,0	CD..S4T002	**CC11**	T6
1930380	**A0510ESCFDRS425**	10	5,9	5,2	3,1	70	25,4	1,0	CD..S4T002	**CC11**	T6
1930404	**A0612ESCFDRS431**	12	7,4	6,6	3,9	70	31,8	1,0	CD..S4T002	**CC11**	T6



İçten soğutmalı bağlantı boyunlu karbür şaft.

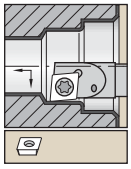




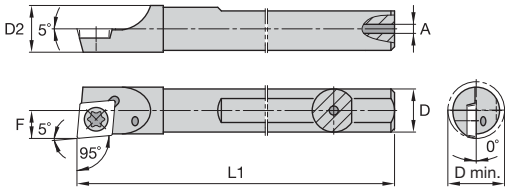
E-SCFD 90° • Kademeli



Sipariş numarası	Katalog numarası	D	D min.	D2	F	L1	LH	A	A1	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü												
1930408	**E0512XSCFDRS425**	12	5,9	5,0	3,2	64	10,0	1,0	1,2	CD..S4T002	**CC11**	T6
1930412	**E0512XSCFDRS450**	12	5,9	5,0	3,2	89	10,0	3,2	1,2	CD..S4T002	**CC11**	T6
1930436	**E0616XSCFDRS463**	16	7,4	6,3	3,9	127	12,3	3,2	1,2	CD..S4T002	**CC11**	T6



İçten soğutmalı çelik şaft.

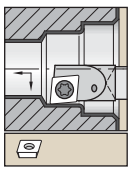




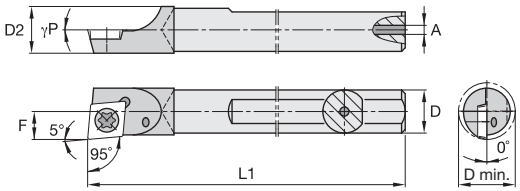
A-SCLD 95°



Sipariş numarası	Katalog numarası	D	D min.	D2	F	L1	A	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1288877	**A04XSCLDRS4**	4	4,6	4,2	2,4	65	1,0	CD..S4T002	**CC09**	T6
1930298	**A05XSCLDRS4**	5	5,8	5,2	3,0	64	1,0	CD..S4T002	**CC09**	T6
1288893	**A06XSCLDRS4**	6	7,1	6,2	3,7	64	1,0	CD..S4T002	**CC11**	T6
1288906	**A08XSCLDRS4**	8	9,0	8,2	4,7	76	1,5	CD..S4T002	**CC11**	T6
Sol yönlü										
1288876	**A04XSCLDLS4**	4	4,6	4,2	2,4	65	1,0	CD..S4T002	**CC09**	T6
1930297	**A05XSCLDLS4**	5	5,8	5,2	3,0	64	1,0	CD..S4T002	**CC09**	T6
1288892	**A06XSCLDLS4**	6	7,1	6,2	3,7	64	1,0	CD..S4T002	**CC11**	T6
1288905	**A08XSCLDLS4**	8	9,0	8,2	4,7	76	1,5	CD..S4T002	**CC11**	T6



İçten soğutmalı karbür şaft.

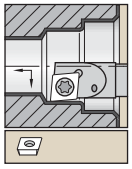




E-SCLD 95°



Sipariş numarası	Katalog numarası	D	D min.	D2	F	L1	A	γP°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü											
1930300	**E04HSCLDRS4**	4	4,6	4,2	2,4	100	1,0	0.0	CD..S4T002	**CC09**	T6
1270967	**E04MSCLDRS4**	4	4,6	4,2	2,4	152	1,0	0.0	CD..S4T002	**CC09**	T6
1930356	**E05HSCLDRS4**	5	5,9	–	3,0	101	1,0	5.0	CD..S4T002	**CC09**	T6
1930358	**E05MSCLDRS4**	5	5,9	–	3,0	152	1,0	5.0	CD..S4T002	**CC09**	T6
1930362	**E06HSCLDRS4**	6	7,1	–	3,7	100	1,2	5.0	CD..S4T002	**CC11**	T6
1270978	**E06MSCLDRS4**	6	6,9	–	3,7	152	1,2	5.0	CD..S4T002	**CC09**	T6
1270988	**E08MSCLDRS4**	8	9,1	–	4,7	150	2,4	5.0	CD..120605	**CC11**	T6
Sol yönlü											
1930299	**E04HSCLDLS4**	4	4,6	4,2	2,4	100	1,0	0.0	CD..S4T002	**CC09**	T6
1270966	**E04MSCLDLS4**	4	4,6	4,2	2,4	152	1,0	0.0	CD..S4T002	**CC09**	T6
1930355	**E05HSCLDLS4**	5	5,9	–	3,0	101	1,0	5.0	CD..S4T002	**CC11**	T6
1930357	**E05MSCLDLS4**	5	5,9	–	3,0	152	1,0	5.0	CD..S4T002	**CC09**	T6
1930361	**E06HSCLDLS4**	6	7,1	–	3,7	100	1,2	5.0	CD..S4T002	**CC11**	T6
1270977	**E06MSCLDLS4**	6	7,1	–	3,7	152	1,2	5.0	CD..S4T002	**CC11**	T6
1270987	**E08MSCLDLS4**	8	9,0	–	4,7	152	2,4	5.0	CD..S4T002	**CC11**	T6



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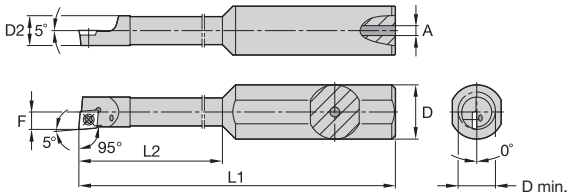
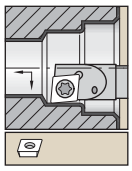




A-SCLD 95° • Kademeli



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	A	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1930372	**A0410ESCLDRS412**	10	5,2	2,6	70	12,7	1,0	CD..S4T002	**CC09**	T6
1930374	**A0410ESCLDRS425**	10	5,2	2,6	70	25,4	1,0	CD..S4T002	**CC09**	T6
1289129	**A0412ESCLDRS412**	12	5,2	2,6	70	12,7	1,0	CD..S4T002	**CC09**	T6
1289130	**A0412ESCLDRS425**	12	5,2	2,6	70	25,4	1,0	CD..S4T002	**CC09**	T6
1930378	**A0510ESCLDRS412**	10	5,8	3,0	70	12,3	1,0	CD..S4T002	**CC11**	T6
1930382	**A0510ESCLDRS425**	10	5,8	3,0	70	25,0	1,0	CD..S4T002	**CC09**	T6
1098071	**A0510GSCLDRS4**	10	6,0	3,2	90	25,0	3,2	CD..S4T002	**MS1454**	T5
1098073	**A0610HSCLDRS4**	10	7,6	3,8	100	32,0	3,2	CD..S4T002	**MS1454**	T5
1930402	**A0612ESCLDRS419**	12	7,2	3,7	70	19,1	1,0	CD..S4T002	**CC11**	T6



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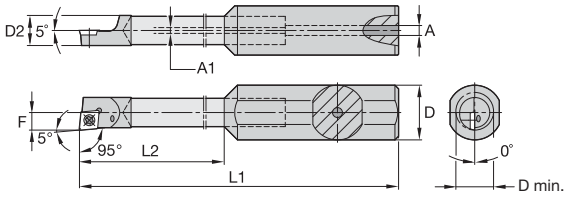



E-SCLD 95° • Kademeli



Sipariş numarası	Katalog numarası	D	D min.	D2	F	L1	L2	A	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü											
1930406	**E0412DSCLDRS422**	12	5,3	5,0	2,6	60	22,2	3,2	CD..S4T002	**CC09**	T6
1262129	**E0412XSCLDRS447**	12	5,3	5,0	2,6	86	47,6	3,2	CD..S4T002	**CC09**	T6
1262131	**E0416KSCLDRS447**	16	5,3	5,0	2,6	111	47,6	3,2	CD..S4T002	**CC09**	T6
1930410	**E0512XSCLDRS425**	12	5,9	–	3,0	64	25,4	1,0	CD..S4T002	**CC11**	T6
1930418	**E0612ESCLDRS431**	12	7,2	–	3,7	70	31,8	3,2	CD..S4T002	**CC11**	T6
1262178	**E0612HSCLDRS463**	12	7,2	–	3,7	102	63,5	3,2	CD..S4T002	**CC11**	T6
1930434	**E0616HSCLDRS431**	16	7,2	–	3,7	95	31,8	3,2	CD..S4T002	**CC11**	T6
1262175	**E0616XSCLDRS463**	16	7,2	–	3,7	127	63,5	3,2	CD..120605	**CC11**	T6

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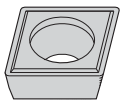
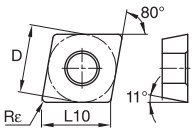
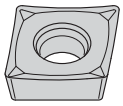
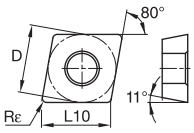




CPGH (T)

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P																												
				M																												
				K																												
				N																												
				S																												
				H																												
CPGT060202K	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
CPGT060204K	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●	–	–	–	–
CPGH09T301	9,53	9,67	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–
CPGH09T302	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	●	–	–	–
CPGH09T304	9,53	9,67	0,4	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	●	●	●	●	–	●	–
CPGH09T308	9,53	9,67	0,8	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	●	●	●	–	–	–





CPGT-HP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPGT060202HP	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
CPGT060204HP	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
CPGT060208HP	6,35	6,45	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
CPGT09T302HP	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
CPGT09T304HP	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
CPGT09T308HP	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–

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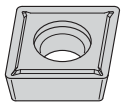
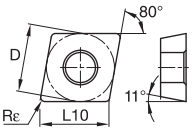
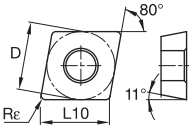




CPGT-LF

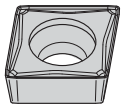
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P ●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
				M							○						●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
				K ○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
				N																		●	●	●		●	●	●	●	●		
				S																		●	●	●	●	●	●	●	●			
				H																												
CPGT060201LF	6,35	6,45	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CPGT060202LF	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CPGT060204LF	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CPGT060208LF	6,35	6,45	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CPGT09T302LF	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
CPGT09T304LF	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
CPGT09T308LF	9,53	9,67	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–

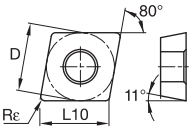




CPMT-FP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT050202FP	5,56	5,65	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
CPMT050204FP	5,56	5,65	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
CPMT060202FP	6,35	6,45	0,2	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
CPMT060204FP	6,35	6,45	0,4	–	–	●	●	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
CPMT060208FP	6,35	6,45	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CPMT09T302FP	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
CPMT09T304FP	9,53	9,67	0,4	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	–
CPMT09T308FP	9,53	9,67	0,8	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●





CPMT-FW

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060202FW	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CPMT060204FW	6,35	6,45	0,4	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CPMT060208FW	6,35	6,45	0,8	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–
CPMT09T304FW	9,53	9,67	0,4	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CPMT09T308FW	9,53	9,67	0,8	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	●	–

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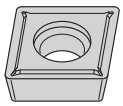
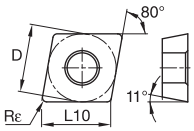
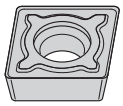
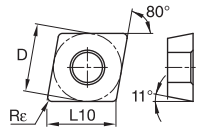




CPMT-LF

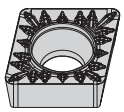
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
CPMT050202LF	5,56	5,65	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CPMT050204LF	5,56	5,65	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
CPMT060202LF	6,35	6,45	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
CPMT060204LF	6,35	6,45	0,4	–	●	●	●	●	–	–	●	●	●	●	–	●	–	●	–	●	–	–	●	●	–	–	–	●	●	–	●	–
CPMT060208LF	6,35	6,45	0,8	–	–	●	●	●	●	–	–	●	–	●	–	–	–	–	–	●	–	–	●	–	–	–	–	●	●	–	●	–
CPMT09T302LF	9,53	9,67	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
CPMT09T304LF	9,53	9,67	0,4	●	●	●	●	●	●	–	–	●	●	–	●	●	●	●	●	●	–	–	–	–	–	–	–	●	●	–	●	–
CPMT09T308LF	9,53	9,67	0,8	–	●	●	●	●	●	–	–	●	●	●	●	●	–	●	–	●	–	–	–	●	–	–	–	●	●	–	●	–

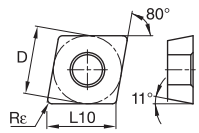




CPMT-MF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060208MF	6,35	6,45	0,8	–	●	–	●	–	–	–	–	–	–	●	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
CPMT09T308MF	9,53	9,67	0,8	–	●	●	●	●	–	–	–	–	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–
CPMT09T312MF	9,53	9,67	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–





CPMT-MP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060208MP	6,35	6,45	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CPMT09T308MP	9,53	9,67	0,8	–	–	●	●	●	–	–	–	–	–	–	–	●	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–

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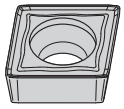
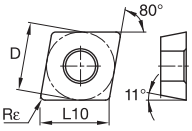
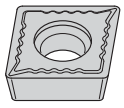
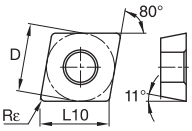




CPMT-MW

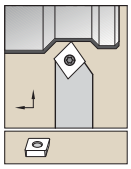
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
CPMT09T304MW	9,53	9,67	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
CPMT09T308MW	9,53	9,67	0,8	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

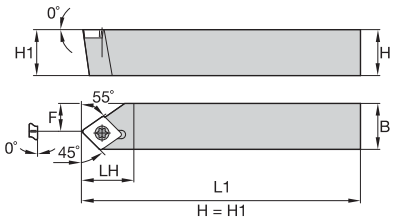




CPMT-UF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
CPMT060204UF	6,35	6,45	0,4	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
CPMT09T304UF	9,53	9,67	0,4	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–



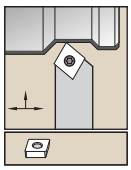


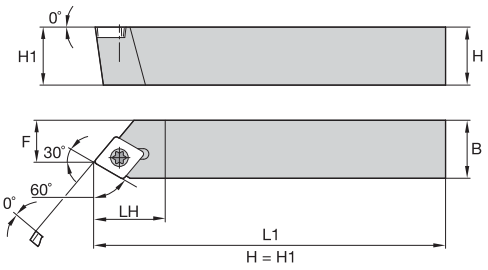


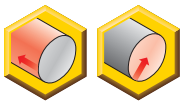
SCDP 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü									
1244893	**SCDPR1212H06**	12	12	7,0	100	14,0	CP..060203	**MS1153**	T7



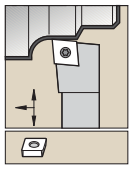


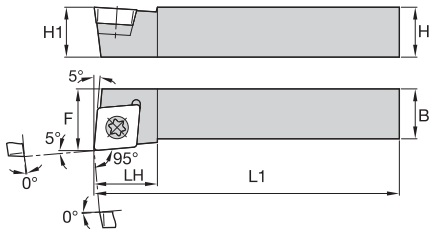


SCEP 60°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü									
1244896	**SCEPR1010H06**	10	10	6,5	100	12,0	CP..060203R.	**MS1153**	T7
1250901	**SCEPR1212H06**	12	12	8,5	100	12,0	CP..060203R.	**MS1153**	T7



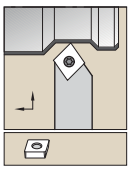


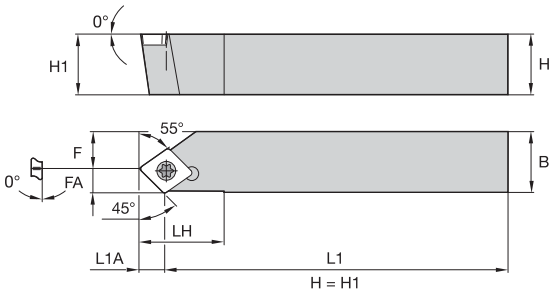


SCLP 95°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü									
1192469	**SCLPR1212M06**	12	12	13,0	150	11,4	CP..060203	**MS1153**	T7
Sol yönlü									
1244913	**SCLPL1212M06**	12	12	13,0	150	11,4	CP..060203	**MS1153**	T7



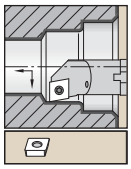




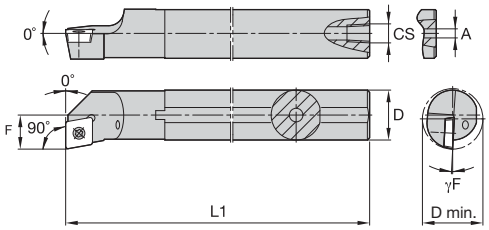
SCSP 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	L1A	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü											
1244917	**SCSPR1010H06**	10	10	6,0	100	14,0	4,2	4,2	CP..060203	**MS1153**	T7



İçten soğutmalı çelik şaft.

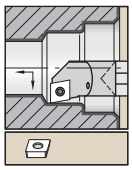




A-SCFP 90°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	CS	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü											
1098157	**A08JSCFPR06**	8	11,0	6,0	110	2,4	–	-8.0	CP..060204	**MS1153**	T7
1098165	**A10KSCFPR06**	10	13,0	7,0	125	3,2	–	-6.0	CP..060204	**MS1153**	T7
1098175	**A12MSCFPR06**	12	16,0	9,0	150	4,0	1/16-27 NPT	-4.0	CP..060204	**MS1153**	T7
1886498	**A16RSCFPR06**	16	20,0	11,0	200	–	1/8-27 NPT	-5.0	CP..060203	**MS1153**	T7
1098221	**A16RSCFPR09**	16	20,0	11,0	200	4,0	1/8-27 NPT	-4.0	CP..09T308	**MS1155**	T15
1098235	**A20SSCFPR09**	20	25,0	13,0	250	4,0	1/8-27 NPT	-2.0	CP..09T308	**MS1155**	T15
Sol yönlü											
1098161	**A08JSCFPL06**	8	11,0	6,0	110	2,4	–	-8.0	CP..060204	**MS1153**	T7
1098170	**A10KSCFPL06**	10	13,0	7,0	125	3,2	–	-6.0	CP..060204	**MS1153**	T7
1098180	**A12MSCFPL06**	12	16,0	9,0	150	4,0	1/16-27 NPT	-4.0	CP..060204	**MS1153**	T7
1098227	**A16RSCFPL09**	16	20,0	11,0	200	4,0	1/8-27 NPT	-4.0	CP..09T308	**MS1155**	T15
1098241	**A20SSCFPL09**	20	25,0	13,0	250	4,0	1/8-27 NPT	-2.0	CP..09T308	**MS1155**	T15



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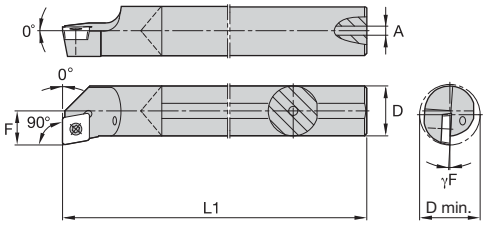
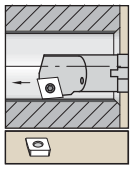




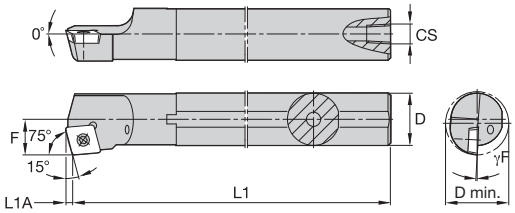
E-SCFP 90°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1152852	**E08KSCFPR06A**	8	11,0	6,0	125	2,4	-8.0	CP..060204	**MS1939**	T7
1152854	**E10MSCFPR06A**	10	13,0	7,0	150	3,2	-4.0	CP..060204	**MS1939**	T7
1152888	**E12QSCFPR06**	12	16,0	9,0	180	4,8	-3.0	CP..060204	**MS1153**	T7
Sol yönlü										
1152853	**E08KSCFPL06A**	8	11,0	6,0	125	2,4	-8.0	CP..060204	**MS1939**	T7



İçten soğutmalı çelik şaft.

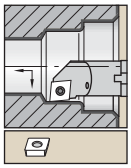




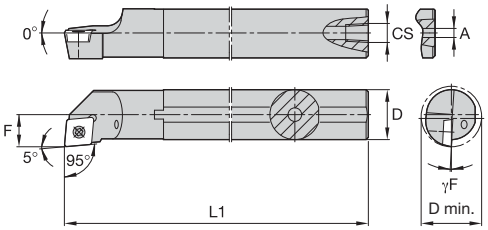
A-SCKP 75°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L1A	CS	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü											
1098236	**A20SSCKPR09**	20	25,0	13,0	250	2,3	1/8-27 NPT	-3.0	CP..09T308	**MS1155**	T15



İçten soğutmalı çelik şaft.

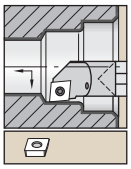




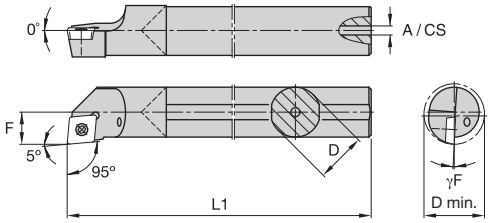
A-SCLP 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	CS	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü											
1098156	**A08JSCLPR06**	.315	.433	.236	4.33	.09	–	-6.0	CP..060204	**MS1939**	T7
1098164	**A10KSCLPR06**	.390	.512	.276	4.92	.13	–	-4.0	CP..060204	**MS1939**	T7
1098174	**A12MSCLPR06**	.472	.630	.354	5.91	.16	1/16-27 NPT	-3.0	CP..060204	**MS1153**	T7
1886502	**A16RSCLPR06**	.630	.787	.433	7.87	–	1/8-27 NPT	-5.0	CP..060203	**MS1153**	T7
1098220	**A16RSCLPR09**	.630	.787	.433	7.87	.16	1/8-27 NPT	-4.0	CP..09T308	**MS1155**	T15
1098234	**A20SSCLPR09**	.787	.984	.512	9.84	.16	1/8-27 NPT	-2.0	CP..09T308	**MS1155**	T15
1886504	**A20SSCLPR06**	.787	.984	.512	9.84	–	1/8-27 NPT	-3.0	CP..060203	**MS1153**	T7
Sol yönlü											
1098160	**A08JSCLPL06**	.315	.433	.236	4.33	.09	–	-6.0	CP..060204	**MS1939**	T7
1098169	**A10KSCLPL06**	.390	.512	.276	4.92	.13	–	-4.0	CP..060204	**MS1939**	T7
1098179	**A12MSCLPL06**	.472	.630	.354	5.91	.16	1/16-27 NPT	-3.0	CP..060204	**MS1153**	T7
1886501	**A16RSCLPL06**	.630	.787	.433	7.87	–	1/8-27 NPT	-5.0	CP..060203	**MS1153**	T7
1098226	**A16RSCLPL09**	.630	.787	.433	7.87	.16	1/8-27 NPT	-4.0	CP..09T308	**MS1155**	T15
1098240	**A20SSCLPL09**	.787	.984	.512	9.84	.16	1/8-27 NPT	-2.0	CP..09T308	**MS1155**	T15



İçten soğutmalı karbür şaft.

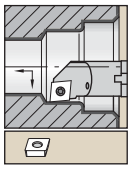




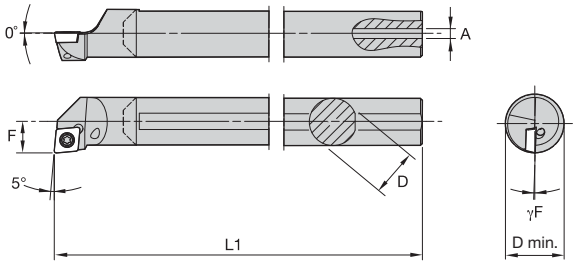
E-SCLP 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1152856	**E08KSCLPR06A**	8	11,0	6,0	122	2,4	-6.0	CP..060204	**MS1939**	T7
1152858	**E10MSCLPR06A**	10	13,0	7,0	150	3,2	-4.0	CP..060204	**MS1939**	T7
1152889	**E12QSCLPR06**	12	16,0	9,0	180	4,8	-3.0	CP..060204	**MS1153**	T7
1152897	**E16RSCLPR09**	16	20,0	11,0	200	5,5	-4.0	CP..09T308	**MS1155**	T15
1152902	**E20SSCLPR09**	20	25,0	13,0	250	7,1	-2.0	CP..09T308	**MS1155**	T15
Sol yönlü										
1152857	**E08KSCLPL06A**	8	11,0	6,0	122	2,4	-6.0	CP..060204	**MS1939**	T7
1152859	**E10MSCLPL06A**	10	13,0	7,0	150	3,2	-4.0	CP..060204	**MS1939**	T7
1152891	**E12QSCLPL06**	12	16,0	9,0	180	4,8	-3.0	CP..060204	**MS1153**	T7
1152899	**E16RSCLPL09**	16	20,0	11,0	200	5,5	-4.0	CP..09T308	**MS1155**	T15
1152905	**E20SSCLPL09**	20	25,0	13,0	250	7,1	-2.0	CP..09T308	**MS1155**	T15



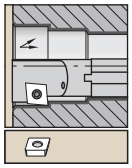
İçten soğutmalı güçlü metal bara.



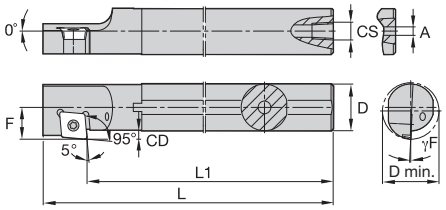
L-SCLP 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
3331115	**L08KSCLPR06**	8	11,0	6,0	123	2,4	-6.0	CP..060204..	**MS1939**	T7
3331107	**L10MSCLPR06**	10	13,0	7,0	149	3,2	-4.0	CP..060204..	**MS1939**	T7
3331110	**L12QSCLPR06**	12	16,0	9,0	181	4,0	-3.0	CP..060204..	**MS1153**	T7
3331108	**L16RSCLPR09**	16	20,0	11,0	203	4,0	-4.0	CP..09T308..	**MS1155**	T15
3331106	**L20SSCLPR09**	20	25,0	13,0	251	4,0	-2.0	CP..09T308..	**MS1155**	T15
Sol yönlü										
3331112	**L12QSCLPL06**	12	16,0	9,0	181	4,0	-3.0	CP..060204..	**MS1153**	T7
3331114	**L16RSCLPL09**	16	20,0	11,0	203	4,0	-4.0	CP..09T308..	**MS1155**	T15
3331109	**L20SSCLPL09**	20	25,0	13,0	251	4,0	-2.0	CP..09T308..	**MS1155**	T15



İçten soğutmalı çelik şaft.

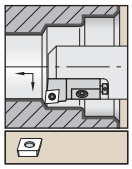


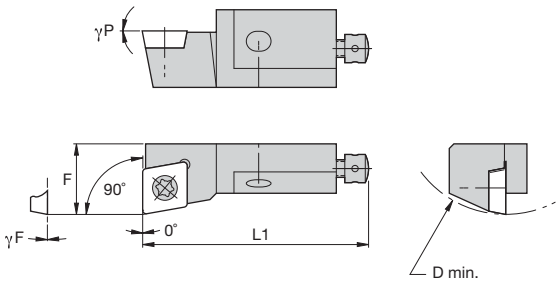


A-SCXP 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L	A	CS	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü												
1098167	**A10KSCXPR06**	10	13,0	7,0	125	136,0	3,2	–	-4.0	CP..060204	**MS1153**	T7
1098177	**A12MSCXPR06**	12	16,0	9,0	150	161,0	4,0	1/16-27 NPT	-3.0	CP..060204	**MS1153**	T7
1098223	**A16RSCXPR09**	16	20,0	11,0	200	218,0	4,0	1/8-27 NPT	-4.0	CP..09T308	**MS1155**	T15





SCFP 90°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098551	**SCFPR06CA05**	20	8,0	25	0.0	0.0	CP..050204/CP..18151
1082671	**SCFPR08CA06**	25	10,0	32	0.0	0.0	CP..060204/CP..2151
1797235	**SCFPR10CA09**	40	14,0	50	0.0	0.0	CP..09T308/CP..3252
Sol yönlü							
1098766	**SCFPL08CA06**	25	10,0	32	0.0	0.0	CP..060204/CP..2151

NOT: ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar.
Bu takım CPGM/CPGT/CPGW-21.5_ kesici uçlarla da kullanılabilir.

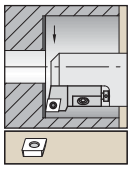
Yedek parçalar

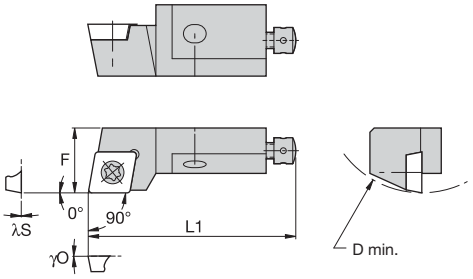






D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
20	**MS1933**	T7	**KUAM34**	1.5 mm	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**
40	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





SCGP 90°

Sipariş numarası	Katalog numarası	D min.	F	L1	λS°	γO°	Ayar ucu
Sağ yönlü							
1098554	**SCGPR08CA06**	25	10,0	32	0.0	0.0	CP..060204/CP..2151

NOT: ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar.
Bu takım CPGM/CPGT/CPGW-21.5_ kesici uçlarla da kullanılabilir.

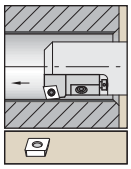
Yedek parçalar

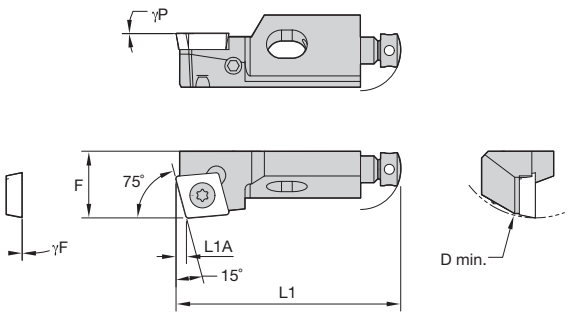






D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





SCKP 75°

Sipariş numarası	Katalog numarası	D min.	F	L1	L1A	γF°	γP°	Ayar ucu
Sağ yönlü								
1098552	**SCKPR08CA06**	25	10,0	32	1,6	0.0	0.0	CP..060204/CP..2151
Sol yönlü								
1098763	**SCKPL08CA06**	25	10,0	32	1,6	0.0	0.0	CP..060204/CP..2151

NOT: ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar.
Bu takım CPGM/CPGT/CPGW-21.5_ kesici uçlarla da kullanılabilir.

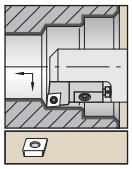
Yedek parçalar

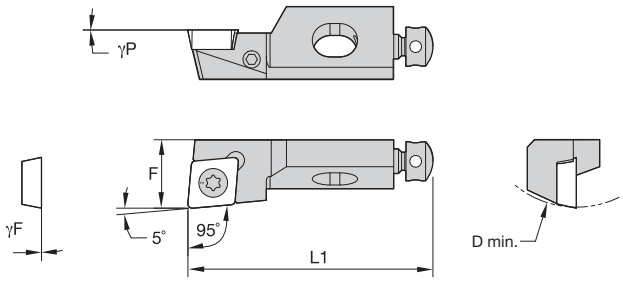






D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





SCLP 95°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098541	**SCLPR06CA05**	20	8,0	25	0.0	0.0	CP..050204/CP..18151
1098542	**SCLPR08CA06**	25	10,0	32	0.0	0.0	CP..060204/CP..2151
1098543	**SCLPR10CA09**	40	14,0	50	0.0	0.0	CP..09T308/CP..3252
Sol yönlü							
1098730	**SCLPL08CA06**	25	10,0	32	0.0	0.0	CP..060204/CP..2151
1098731	**SCLPL10CA09**	40	14,0	50	0.0	0.0	CP..09T308/CP..3252

NOT: ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar.
Bu takım CPGM/CPGT/CPGW-21.5_ kesici uçlarla da kullanılabilir.
ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar (örn. CPMT/CPGT/CPGW-32.5_).
90° havşa başlı delikli kesici uçlar (örn. CPGM/CPGB-32.5_) bu takıma uygun değildir.

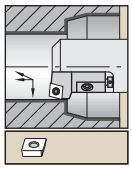
Yedek parçalar

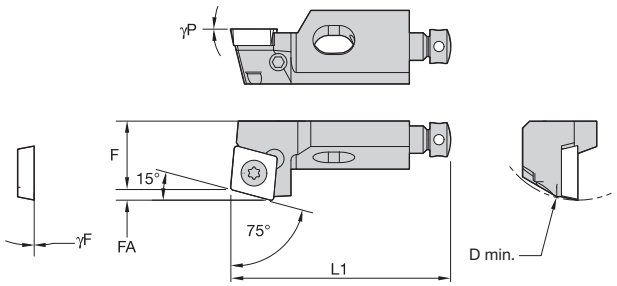






D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
20	**MS1933**	T7	**KUAM34**	1.5 mm	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**
40	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





SCRP 75°

Sipariş numarası	Katalog numarası	D min.	F	L1	FA	γF°	γP°	Ayar ucu
Sağ yönlü								
1098555	**SCRPR08CA06**	25	10,0	32	1,5	0.0	0.0	CP..060204/CP..2151

NOT: ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar.
Bu takım CPGM/CPGT/CPGW-21.5_ kesici uçlarla da kullanılabilir.

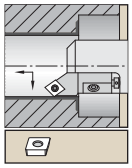
Yedek parçalar

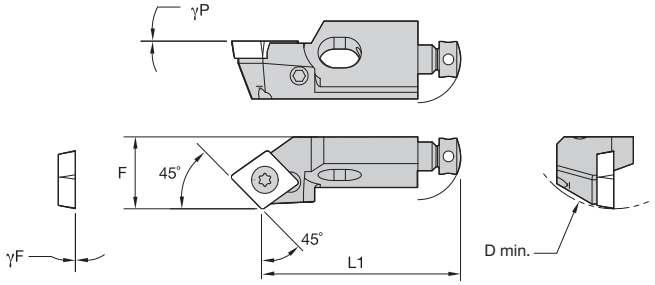






D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





SCSP 45°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098328	**SCSPR06CA05**	20	8,0	21	0.0	0.0	CP..050204/CP..18151
1086536	**SCSPR08CA06**	25	10,0	28	0.0	0.0	CP..060204/CP..2151
Sol yönlü							
1098548	**SCSPL06CA05**	20	8,0	21	0.0	0.0	CP..050204/CP..18151
1098549	**SCSPL08CA06**	25	10,0	28	0.0	0.0	CP..060204/CP..2151

NOT: ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar.
Bu takım CPGM/CPGT/CPGW-21.5_ kesici uçlarla da kullanılabilir.

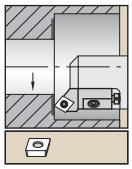
Yedek parçalar

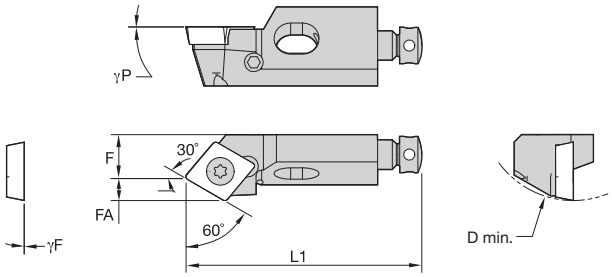






D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
20	**MS1933**	T7	**–**	–	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**





SCTP 60°

Sipariş numarası	Katalog numarası	D min.	F	L1	FA	γF°	γP°	Ayar ucu
Sağ yönlü								
1098556	**SCTPR06CA05**	20	5,5	25	2,6	0.0	0.0	CP..050204/CP..18151
1098557	**SCTPR08CA06**	25	6,0	32	3,0	0.0	0.0	CP..060204/CP..2151
Sol yönlü								
1098736	**SCTPL08CA06**	25	6,0	32	3,0	0.0	0.0	CP..060204/CP..2151

NOT: ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar.
Bu takım CPGM/CPGT/CPGW-21.5_ kesici uçlarla da kullanılabilir.

Yedek parçalar







D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
20	**MS1933**	T7	**–**	–	**KUAM35**	**MS2173**	2 mm	**CSWM 035 040**
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	2.5 mm	**CSWM 040 050**

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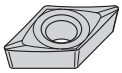
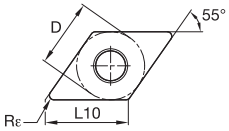
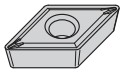
○ Alternatif tercih

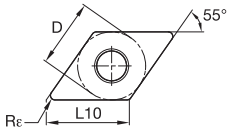




DCGT-HP

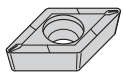
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●				
H																																
DCGT070202HP	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
DCGT070204HP	6,35	7,75	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
DCGT070208HP	6,35	7,75	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
DCGT11T302HP	9,53	11,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
DCGT11T304HP	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
DCGT11T308HP	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–

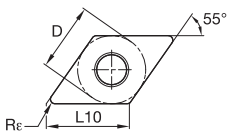




DCGT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCGT0702X0LF	6,35	7,75	0,0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
DCGT070201LF	6,35	7,75	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DCGT11T3X0LF	9,53	11,63	0,0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
DCGT11T301LF	9,53	11,63	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DCGT150408LF	12,70	15,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–





DCMT-11

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT07020211	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
DCMT07020411	6,35	7,75	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
DCMT11T30411	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
DCMT11T30811	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

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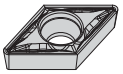
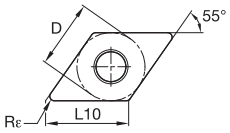
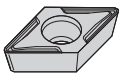


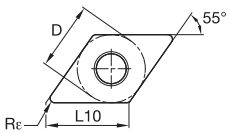


DCMT-FP

P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●				
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●				
K		○	○	○	○	○			●	●	●	●	●	●							●	●	●		●	●	●	●		●	●				
N																					●	●	●		●	●	●	●	●						
S																					●	●	●	●	●	●	●	●							
H																																			

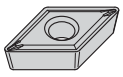
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT070202FP	6,35	7,75	0,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	●
DCMT070204FP	6,35	7,75	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	●	–	–	–	–	–
DCMT070208FP	6,35	7,75	0,8	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T302FP	9,53	11,63	0,2	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	●	●	–	–	–	–	●
DCMT11T304FP	9,53	11,63	0,4	●	●	●	●	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	●	●	–	–	–	–	●
DCMT11T308FP	9,53	11,63	0,8	●	●	●	–	●	–	–	–	–	–	–	●	–	–	●	●	●	–	–	–	–	–	●	●	–	–	–	–	●
DCMT11T312FP	9,53	11,63	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DCMT150404FP	12,70	15,50	0,4	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
DCMT150408FP	12,70	15,50	0,8	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–

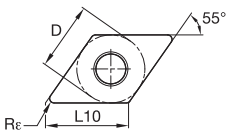




DCMT-FW

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT11T304FW	9,53	11,63	0,2	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
DCMT11T308FW	9,53	11,63	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–





DCMT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DCMT070202LF	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	–	–
DCMT070204LF	6,35	7,75	0,4	–	●	●	●	●	●	–	–	–	●	–	–	●	●	●	●	●	●	–	●	–	–	–	–	●	●	–	●	–
DCMT11T302LF	9,53	11,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
DCMT11T304LF	9,53	11,63	0,4	●	●	●	●	●	●	–	–	●	–	●	●	●	●	●	●	●	–	–	●	–	–	–	–	●	●	–	●	–
DCMT11T308LF	9,53	11,63	0,8	–	●	●	●	●	–	–	–	●	●	●	●	●	●	●	●	●	–	–	●	–	–	●	–	●	●	–	●	–
DCMT11T312LF	9,53	11,63	1,2	–	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DCMT150404LF	12,70	15,50	0,4	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
DCMT150408LF	12,70	15,50	0,8	–	●	●	●	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

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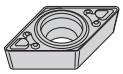
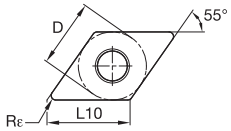
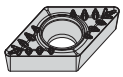
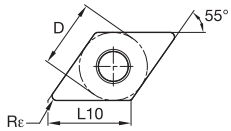




DCMT-MF

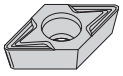
				KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
ISO Katalog numarası	D	L10	Rε																													
DCMT11T304MF	9,53	11,63	0,4	–	●	●	●	●	●	–	–	–	–	●	–	●	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–
DCMT11T308MF	9,53	11,63	0,8	–	●	●	●	●	●	–	–	–	–	●	–	●	●	●	–	●	●	–	–	–	–	–	–	–	–	–	–
DCMT11T312MF	9,53	11,63	1,2	–	●	●	●	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

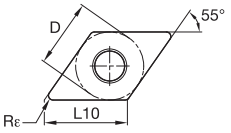




DCMT-MP

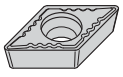
				KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
ISO Katalog numarası	D	L10	Rε																													
DCMT11T304MP	9,53	11,63	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	●	●	–	–	–	–	–	–
DCMT11T308MP	9,53	11,63	0,8	–	–	●	–	●	–	–	–	–	–	–	●	●	–	●	●	●	–	–	–	–	●	●	–	–	–	–	–	–
DCMT11T312MP	9,53	11,63	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

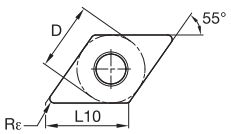




DCMT-MW

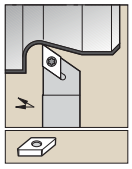
				KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
ISO Katalog numarası	D	L10	Rε																													
DCMT11T304MW	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DCMT11T308MW	9,53	11,63	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

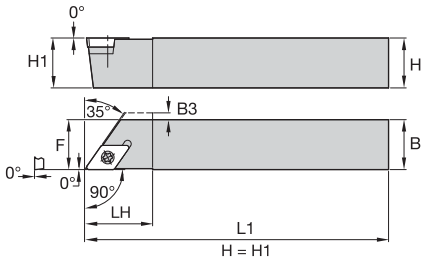


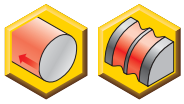


DCMT-UF

				KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
ISO Katalog numarası	D	L10	Rε																													
DCMT070204UF	6,35	7,75	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DCMT11T302UF	9,53	11,63	0,2	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DCMT11T304UF	9,53	11,63	0,4	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DCMT11T308UF	9,53	11,63	0,8	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–





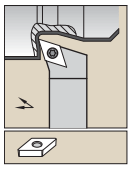


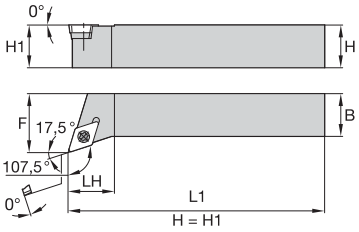
SDAC 90°

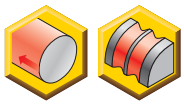




Sipariş numarası	Katalog numarası	H	B	F	L1	LH	B3	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü													
1772159	**SDACR1212M11Q**	12	12	12,0	150	22,0	1,5	DC..11T308	–	–	–	**MS1155**	T15
1097720	**SDACR1616K11Q**	16	16	16,0	125	22,0	–	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
Sol yönlü													
1772160	**SDACL1212M11Q**	12	12	12,0	150	22,0	1,5	DC..11T308	–	–	–	**MS1155**	T15





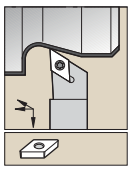


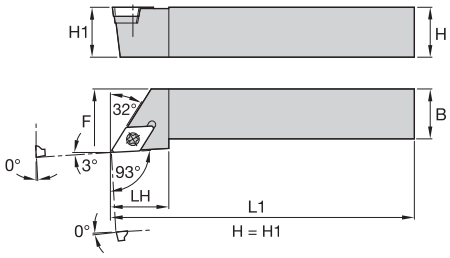
SDHC 107,5°

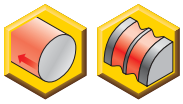




Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü												
1097841	**SDHCR1616H11**	16	16	20,0	100	20,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097989	**SDHCR2020K11**	20	20	25,0	125	20,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1130381	**SDHCR2525M11**	25	25	32,0	150	20,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097843	**SDHCR2525M15**	25	25	32,0	150	25,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15
Sol yönlü												
1097986	**SDHCL1616H11**	16	16	20,0	100	20,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097930	**SDHCL2020K11**	20	20	25,0	125	20,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1124630	**SDHCL2525M11**	25	25	32,0	150	20,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097988	**SDHCL2525M15**	25	25	32,0	150	25,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15





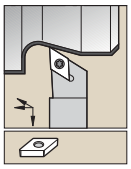


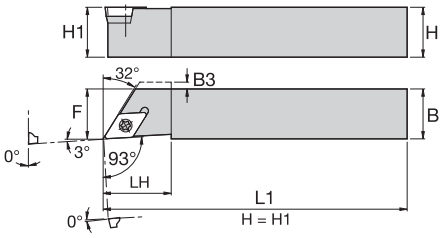
SDJC 93°

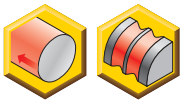




Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü												
1097847	**SDJCR0808L07**	8	8	10,0	140	16,0	DC..070204	–	–	–	**MS1153**	T7
1097848	**SDJCR1010M07**	10	10	12,0	150	16,0	DC..070204	–	–	–	**MS1153**	T7
1097849	**SDJCR1212N07**	12	12	16,0	160	16,0	DC..070204	–	–	–	**MS1153**	T7
1097850	**SDJCR1212N11**	12	12	16,0	160	22,0	DC..11T308	–	–	–	**MS1155**	T15
1244972	**SDJCR1616H07**	16	16	20,0	100	16,0	DC..070204	–	–	–	**MS1153**	T7
1097851	**SDJCR1616H11**	16	16	20,0	100	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1244974	**SDJCR2020K07**	20	20	25,0	125	16,0	DC..070204	–	–	–	**MS1153**	T7
1097853	**SDJCR2020K11**	20	20	25,0	125	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097852	**SDJCR2020K15**	20	20	25,0	125	32,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15
1097854	**SDJCR2525M11**	25	25	32,0	150	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097855	**SDJCR2525M15**	25	25	32,0	150	32,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15
Sol yönlü												
1097997	**SDJCL0808L07**	8	8	10,0	140	16,0	DC..070204	–	–	–	**MS1153**	T7
1097998	**SDJCL1010M07**	10	10	12,0	150	16,0	DC..070204	–	–	–	**MS1153**	T7
1097999	**SDJCL1212N07**	12	12	16,0	160	16,0	DC..070204	–	–	–	**MS1153**	T7
1098000	**SDJCL1212N11**	12	12	16,0	160	22,0	DC..11T308	–	–	–	**MS1155**	T15
1244966	**SDJCL1616H07**	16	16	20,0	100	16,0	DC..070204	–	–	–	**MS1153**	T7
1098001	**SDJCL1616H11**	16	16	20,0	100	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1244968	**SDJCL2020K07**	20	20	25,0	125	16,0	DC..070204	–	–	–	**MS1153**	T7
1098003	**SDJCL2020K11**	20	20	25,0	125	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1192473	**SDJCL2525M11**	25	25	32,0	150	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1098004	**SDJCL2525M15**	25	25	32,0	150	32,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15



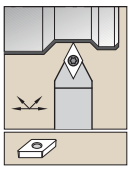


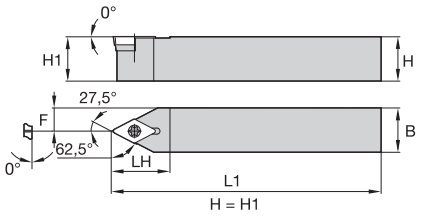


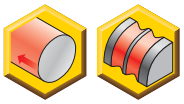
SDJC-F 93°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	B3	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü													
1772157	**SDJCRF0808M07Q**	8	8	8,0	150	16,0	1,5	DC..070204	–	–	–	**MS1153**	T7
1097844	**SDJCRF1010M07Q**	10	10	10,0	150	16,0	–	DC..070204	–	–	–	**MS1153**	T7
1097845	**SDJCRF1212M07Q**	12	12	12,0	150	16,0	–	DC..070204	–	–	–	**MS1153**	T7
1097846	**SDJCRF1616K11Q**	16	16	16,0	125	22,0	–	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
Sol yönlü													
1097996	**SDJCLF1616K11Q**	16	16	16,0	125	22,0	–	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15



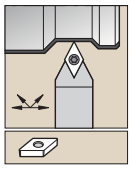


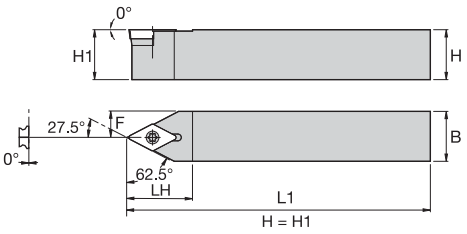


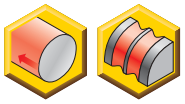
SDNC 62,5°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sol yönlü												
1097856	**SDNCN0808L07**	8	8	4,0	140	16,0	DC..070204	–	–	–	**MS1153**	T7
1097857	**SDNCN1010M07**	10	10	5,0	150	16,0	DC..070204	–	–	–	**MS1153**	T7
1097858	**SDNCN1212N07**	12	12	6,0	160	16,0	DC..070204	–	–	–	**MS1153**	T7
1097859	**SDNCN1616H11**	16	16	8,0	100	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097861	**SDNCN2020K11**	20	20	10,0	125	22,0	DC..11T308	**SKDP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097860	**SDNCN2020K15**	20	20	10,0	125	28,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15
1097862	**SDNCN2525M15**	25	25	12,5	150	28,0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15





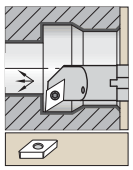


SDPC 62,5°

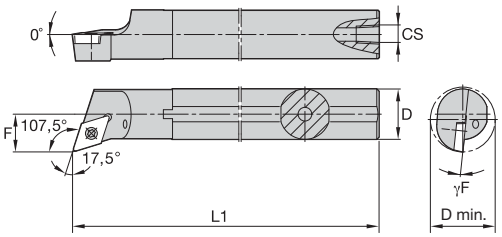


Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Kesici uç vidası	Torx
1772173	**SDPCN1212M11Q**	12	12	6,0	150	22,0	DC..11T308	**MS1155**	T15

Vida bağlamalı delik işleme baraları



İçten soğutmalı çelik şaft.

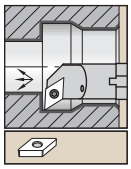




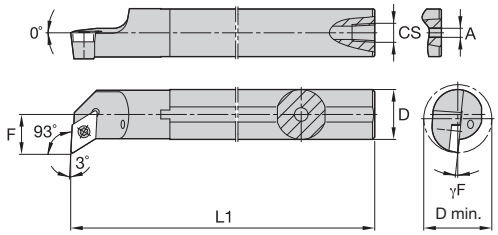
A-SDQC 107,5°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1098188	**A12MSDQCR07**	12	16,0	9,0	150	1/16-27 NPT	-6.0	DC..070204	**MS1153**	T7
1098198	**A16RSDQCR07**	16	20,0	11,0	200	1/8-27 NPT	-5.0	DC..070204	**MS1153**	T7
1098147	**A20SSDQCR11**	20	25,0	13,0	250	1/8-27 NPT	-5.0	DC..11T308	**MS1155**	T15
1098260	**A25TSDQCR11**	25	32,0	17,0	300	1/4-18 NPT	-4.0	DC..11T308	**MS1155**	T15
Sol yönlü										
1098193	**A12MSDQCL07**	12	16,0	9,0	150	1/16-27 NPT	-6.0	DC..070204	**MS1153**	T7
1098203	**A16RSDQCL07**	16	20,0	11,0	200	1/8-27 NPT	-5.0	DC..070204	**MS1153**	T7
1098149	**A20SSDQCL11**	20	25,0	13,0	250	1/8-27 NPT	-5.0	DC..11T308	**MS1155**	T15
1098264	**A25TSDQCL11**	25	32,0	17,0	300	1/4-18 NPT	-4.0	DC..11T308	**MS1155**	T15



İçten soğutmalı çelik şaft.



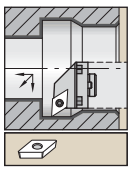


A-SDUC 93°

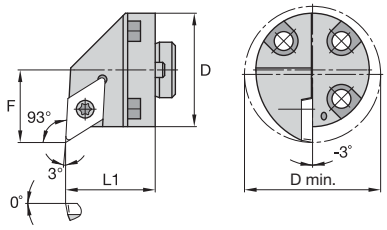


Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	CS	γF°	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü														
1886506	**A10KSDUCR07**	10	13,0	7,0	125	3,2	–	-7.0	DC..070204	–	–	–	**MS1153**	T7
1098187	**A12MSDUCR07**	12	16,0	9,0	150	–	1/16-27 NPT	-4.0	DC..070204	–	–	–	**MS1153**	T7
1098197	**A16RSDUCR07**	16	20,0	11,0	200	–	1/8-27 NPT	-4.0	DC..070204	–	–	–	**MS1153**	T7
1886508	**A16RSDUCR11**	16	20,0	11,0	200	–	1/8-27 NPT	-6.0	DC..11T308	–	–	–	**MS1155**	T15
1098146	**A20SSDUCR11**	20	25,0	13,0	250	–	1/8-27 NPT	-5.0	DC..11T308	–	–	–	**MS1155**	T15
1098259	**A25TSDUCR11**	25	32,0	17,0	300	–	1/4-18 NPT	-4.0	DC..11T308	–	–	–	**MS1155**	T15
1098283	**A32TSDUCR15**	32	40,0	22,0	300	–	1/4-18 NPT	-7.0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15
Sol yönlü														
1886505	**A10KSDUCL07**	10	13,0	7,0	125	3,2	–	-7.0	DC..070204	–	–	–	**MS1153**	T7
1098192	**A12MSDUCL07**	12	16,0	9,0	150	–	1/16-27 NPT	-4.0	DC..070204	–	–	–	**MS1153**	T7
1098202	**A16RSDUCL07**	16	20,0	11,0	200	–	1/8-27 NPT	-4.0	DC..070204	–	–	–	**MS1153**	T7
1886507	**A16RSDUCL11**	16	20,0	11,0	200	–	1/8-27 NPT	-6.0	DC..11T308	–	–	–	**MS1155**	T15
1098148	**A20SSDUCL11**	20	25,0	13,0	250	–	1/8-27 NPT	-5.0	DC..11T308	–	–	–	**MS1155**	T15
1098263	**A25TSDUCL11**	25	32,0	17,0	300	–	1/4-18 NPT	-4.0	DC..11T308	–	–	–	**MS1155**	T15
1098284	**A32TSDUCL15**	32	40,0	22,0	300	–	1/4-18 NPT	-7.0	DC..150408	**SKDP453**	**SRS4**	4 mm	**MS1158**	T15

Vida bağlamalı delik işleme kafaları



İçten soğutmalı.



H-SDUC 93°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü								
1772255	**H25SDUCR11**	25	32,0	17,0	20	DC..11T308	**MS1155**	T15
1772257	**H32SDUCR11**	32	40,0	22,0	25	DC..11T308	**MS1155**	T15
3612136	**H40SDUCR11**	40	50,0	27,0	41	DC..11T308	**MS1156**	T15
3612138	**H50SDUCR11**	50	63,0	35,0	41	DC..11T308	**MS1156**	T15
Sol yönlü								
1772256	**H25SDUCL11**	25	32,0	17,0	20	DC..11T308	**MS1155**	T15
1772258	**H32SDUCL11**	32	40,0	22,0	25	DC..11T308	**MS1155**	T15
3612139	**H50SDUCL11**	50	63,0	35,0	41	DC..11T308	**MS1156**	T15

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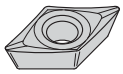
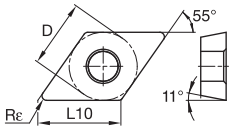
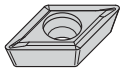
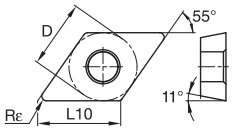




DPGT-HP

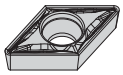
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
DPGT070202HP	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPGT070204HP	6,35	7,75	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–
DPGT070208HP	6,35	7,75	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
DPGT11T304HP	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	–	●	–	–
DPGT11T308HP	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–

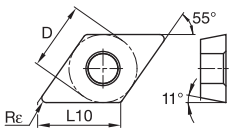




DPGT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPGT070201LF	6,35	7,75	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPGT070202LF	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
DPGT070204LF	6,35	7,75	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DPGT11T301LF	9,53	11,63	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPGT11T302LF	9,53	11,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DPGT11T304LF	9,53	11,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
DPGT11T308LF	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–





DPMT-FP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070202FP	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
DPMT070204FP	6,35	7,75	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	●
DPMT070208FP	6,35	7,75	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
DPMT11T304FP	9,53	11,63	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
DPMT11T308FP	9,53	11,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●

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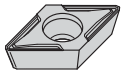
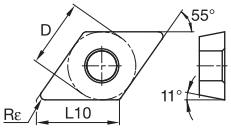
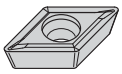
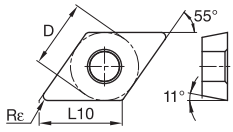




DPMT-FW

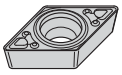
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
DPMT070204FW	6,35	7,75	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DPMT070208FW	6,35	7,75	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

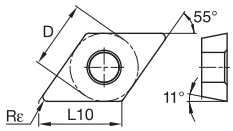




DPMT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070202LF	6,35	7,75	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
DPMT070204LF	6,35	7,75	0,4	–	●	●	●	●	–	–	–	●	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
DPMT11T302LF	9,53	11,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPMT11T304LF	9,53	11,63	0,4	–	●	●	●	●	–	–	–	●	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	●	●	–	●	–
DPMT11T308LF	9,53	11,63	0,8	–	●	●	●	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–





DPMT-MF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT11T308MF	9,53	11,63	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

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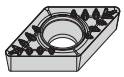
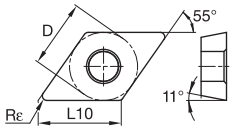
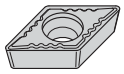
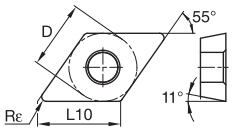




DPMT-MP

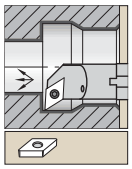
				KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
ISO Katalog numarası	**D**	**L10**	**Rε**																													
DPMT11T308MP	9,53	11,63	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–



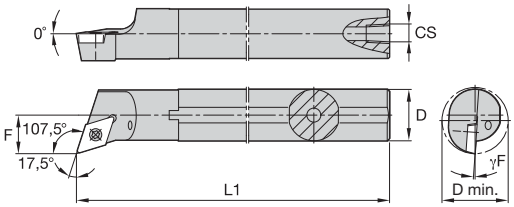


DPMT-UF

ISO Katalog numarası	**D**	**L10**	**Rε**	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
DPMT070204UF	6,35	7,75	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
DPMT11T304UF	9,53	11,63	0,4	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DPMT11T308UF	9,53	11,63	0,8	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



İçten soğutmalı çelik şaft.

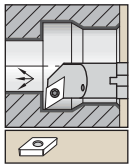




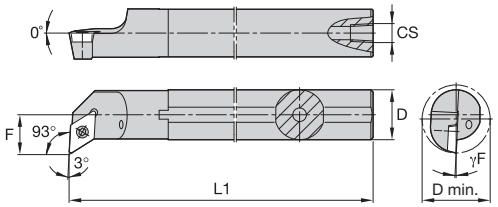
A-SDQP 107,5°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1098186	**A12MSDQPR07**	12	16,0	9,0	150	1/16-27 NPT	-2.0	DP..070204	**MS1153**	T7
1098196	**A16RSDQPR07**	16	20,0	11,0	200	1/8-27 NPT	0.0	DP..070204	**MS1153**	T7
1098247	**A20SSDQPR11**	20	25,0	13,0	250	1/8-27 NPT	-2.0	DP..11T308	**MS1155**	T15
1098258	**A25TSDQPR11**	25	32,0	17,0	300	1/4-18 NPT	0.0	DP..11T308	**MS1155**	T15
Sol yönlü										
1098191	**A12MSDQPL07**	12	16,0	9,0	150	1/16-27 NPT	-2.0	DP..070204	**MS1153**	T7
1098201	**A16RSDQPL07**	16	20,0	11,0	200	1/8-27 NPT	0.0	DP..070204	**MS1153**	T7
1098252	**A20SSDQPL11**	20	25,0	13,0	250	1/8-27 NPT	-2.0	DP..11T308	**MS1155**	T15
1098262	**A25TSDQPL11**	25	32,0	17,0	300	1/4-18 NPT	0.0	DP..11T308	**MS1155**	T15



İçten soğutmalı çelik şaft.

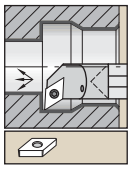




A-SDUP 93°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1098184	**A12MSDUPR07**	12	16,0	9,0	150	1/16-27 NPT	-2.0	DP..070204	**MS1153**	T7
1098194	**A16RSDUPR07**	16	20,0	11,0	200	1/8-27 NPT	0.0	DP..070204	**MS1153**	T7
1098245	**A20SSDUPR11**	20	25,0	13,0	250	1/8-27 NPT	-2.0	DP..11T308	**MS1155**	T15
1098257	**A25TSDUPR11**	25	32,0	17,0	300	1/4-18 NPT	0.0	DP..11T308	**MS1155**	T15
Sol yönlü										
1098189	**A12MSDUPL07**	12	16,0	9,0	150	1/16-27 NPT	-2.0	DP..070204	**MS1153**	T7
1098199	**A16RSDUPL07**	16	20,0	11,0	200	1/8-27 NPT	0.0	DP..070204	**MS1153**	T7
1098250	**A20SSDUPL11**	20	25,0	13,0	250	1/8-27 NPT	-2.0	DP..11T308	**MS1155**	T15



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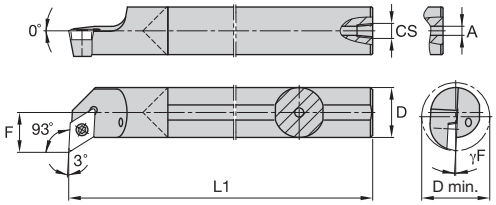
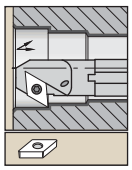




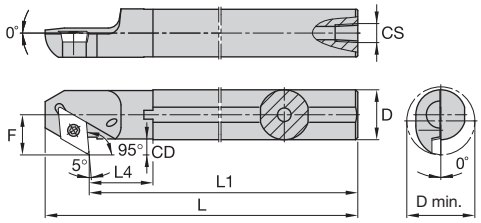
E-SDUP 93°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1152892	**E12QSDUPR07**	12	16,0	9,0	180	4,8	-2.0	DP..070204	**MS1153**	T7
1152894	**E16RSDUPR07**	16	20,0	11,0	200	5,5	0.0	DP..070204	**MS1153**	T7
1152906	**E20SSDUPR11**	20	25,0	13,0	250	7,1	-2.0	DP..11T308	**MS1155**	T15
Sol yönlü										
1152893	**E12QSDUPL07**	12	16,0	9,0	180	4,8	-2.0	DP..070204	**MS1153**	T7
1152895	**E16RSDUPL07**	16	20,0	11,0	200	5,5	0.0	DP..070204	**MS1153**	T7
1152907	**E20SSDUPL11**	20	25,0	13,0	250	7,1	-2.0	DP..11T308	**MS1155**	T15



İçten soğutmalı çelik şaft.

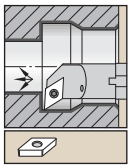




A-SDXP 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L	L4	CD	CS	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü												
1098185	**A12MSDXPR07**	12	16,0	9,0	150	162,0	–	3,09	1/16-27 NPT	DP..070204	**MS1153**	T7
1098195	**A16RSDXPR07**	16	20,0	11,0	200	212,0	–	3,20	1/8-27 NPT	DP..070204	**MS1153**	T7
1098246	**A20SSDXPR11**	20	25,0	13,0	250	270,0	48,44	4,31	1/8-27 NPT	DP..11T308	**MS1155**	T15
Sol yönlü												
1098190	**A12MSDXPL07**	12	16,0	9,0	150	162,0	–	3,09	1/16-27 NPT	DP..070204	**MS1153**	T7
1098200	**A16RSDXPL07**	16	20,0	11,0	200	212,0	–	3,20	1/8-27 NPT	DP..070204	**MS1153**	T7
1098251	**A20SSDXPL11**	20	25,0	13,0	250	270,0	48,44	4,31	1/8-27 NPT	DP..11T308	**MS1155**	T15



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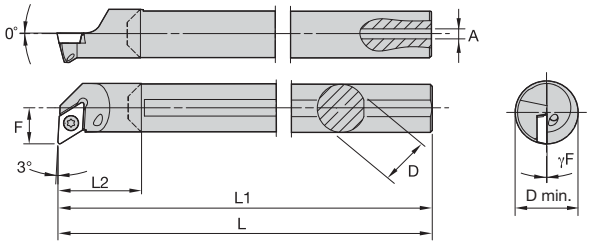
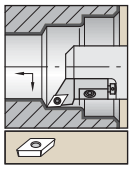


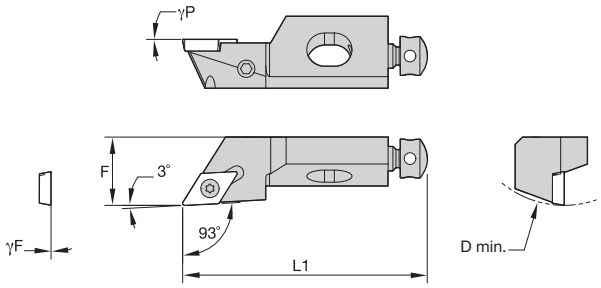


L-SDUP 93°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L	L2	A	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü												
3331116	**L12QSDUPR07**	12	16,0	9,0	181	181,2	22,4	4,0	-2.0	DP..070204..	**MS1153**	T7
3331117	**L20SSDUPR11**	20	25,0	13,0	251	251,5	33,6	4,0	-2.0	DP..11T308..	**MS1155**	T15
Sol yönlü												
3331121	**L12QSDUPL07**	12	16,0	9,0	181	181,2	22,4	4,0	-2.0	DP..070204..	**MS1153**	T7





SDJP 93°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098757	**SDJPR10CA07**	40	14,0	50	0.0	0.0	DP..070204/DP..2151
Sol yönlü							
1098758	**SDJPL10CA07**	40	14,0	50	0.0	0.0	DP..070204/DP..2151

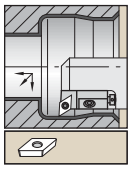
Yedek parçalar

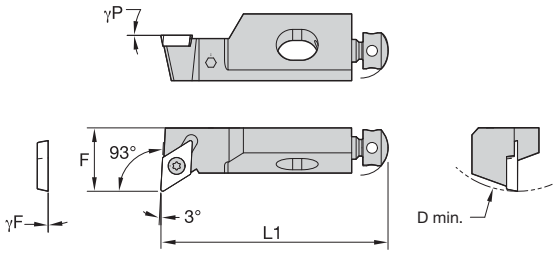






D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
40	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





SDUP 93°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098728	**SDUPR10CA07**	40	14,0	50	0.0	0.0	DP..070204/DP..2151

Yedek parçalar



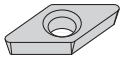


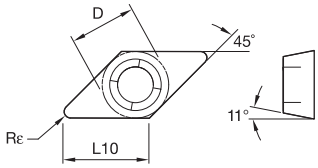


D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
40	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**

● İlk tercih
○ Alternatif tercih

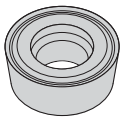
		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

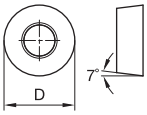




GPCD

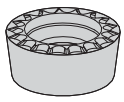
ISO Katalog numarası	D	L10	Rε
GPCD050102	3,97	5,61	0,2
GPCD050104	3,97	5,61	0,4

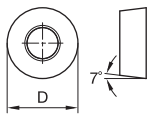




RCGH

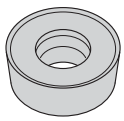
ISO Katalog numarası	D	L10	Rε
RCGH120400	12,70	–	–

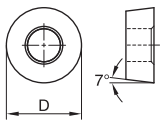




RCGH-MP

ISO Katalog numarası	D	L10	Rε
RCGH120400MP	12,70	–	–

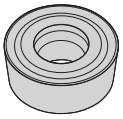
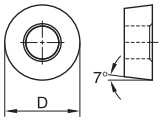




RCGT-HP

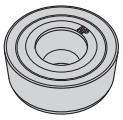
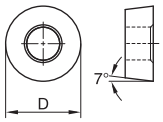
ISO Katalog numarası	D	L10	Rε
RCGT0803M0HP	8,00	–	–
RCGT10T3M0HP	10,00	–	–
RCGT1204M0HP	12,00	–	–

● İlk tercih
○ Alternatif tercih

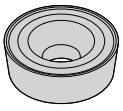
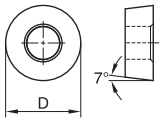
RCGT-MS

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
RCGT0803M0MS	8,00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
RCGT1204M0MS	12,00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
RCGT1606M0MS	16,00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–

RCGT-RP

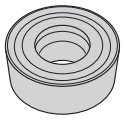
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCGT0602M0RP	6,00	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCGT0803M0RP	8,00	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCGT1204M0RP	12,00	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

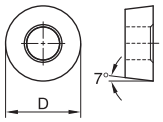



RCMH-K

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMH190600K	19,05	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

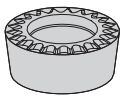
● İlk tercih
○ Alternatif tercih

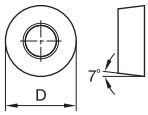




RCMT

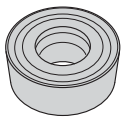
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
RCMT0602M0	6,00	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	–	●	–	●	–	–	–	–
RCMT060200	6,35	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
RCMT0803M0	8,00	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	●	–	–	●	–	–	–	–	●	–	–	–	–
RCMT09T300	9,53	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	–
RCMT10T3M0	10,00	–	–	–	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–	–
RCMT1204M0	12,00	–	–	–	–	–	–	–	●	–	–	–	●	–	●	●	–	–	–	●	–	–	●	–	–	●	–	●	–	–	–	–
RCMT120400	12,70	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–
RCMT1605M0	16,00	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	●	–	–	●	–	●	–	–	–	–
RCMT2006M0	20,00	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	●	–	–	●	–	–	●	–	●	–	–	–	–

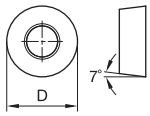




RCMT-MP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT0803M0MP	8,00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT10T3M0MP	10,00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT1204M0MP	12,00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT120400MP	12,70	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–
RCMT1606M0MP	16,00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–





RCMT-M0

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT1204M0	12,00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

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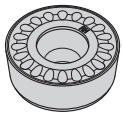
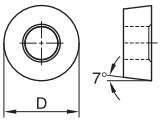
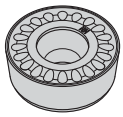
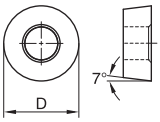




RCMT-RH

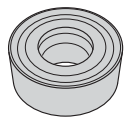
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
RCMT2006M0RH	20,00	—	—	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

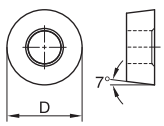




RCMX-RH

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMX2507M0RH	25,00	—	—	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMX3209M0RH	32,00	—	—	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





RCMT-RM

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMT2006M0RM	20,00	—	—	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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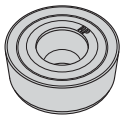
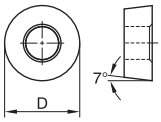
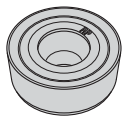
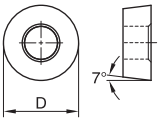




RCMT-RP

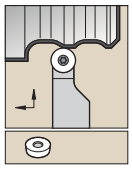
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●			●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
RCMT1204M0RP	12,00	—	—	–	●	●	●	●	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMT1606M0RP	16,00	—	—	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMT2006M0RP	20,00	—	—	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

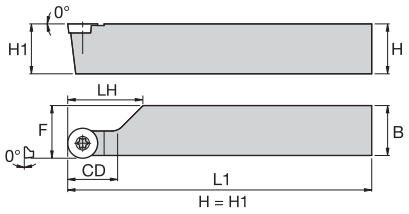




RCMX-RP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RCMX1003M0RP	10,00	—	—	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RCMX2507M0RP	25,00	—	—	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



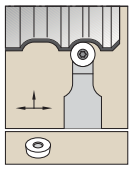


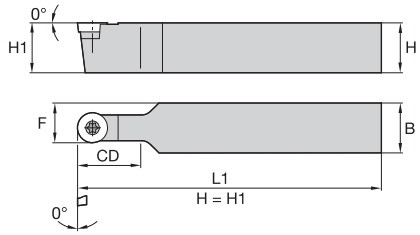


SRAC



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	CD	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1097887	**SRACR1212N08**	12	12	13,0	160	31,0	12,0	RC..0803M0	**MS1154**	T9
1097888	**SRACR1616Q08**	16	16	17,0	180	35,0	16,0	RC..0803M0	**MS1154**	T9







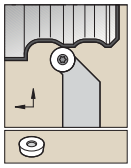
SRDC

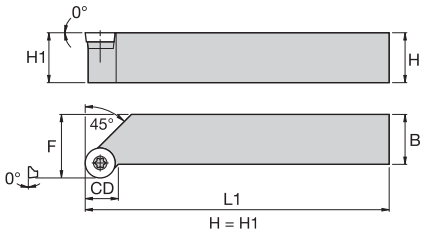






Sipariş numarası	Katalog numarası	H	B	F	L1	CD	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
1097892	**SRDCN1212N06**	12	12	9,0	160	12,0	RC..0602M0	–	–	–	**MS1153**	T7
1097891	**SRDCN1212N08**	12	12	10,0	160	12,0	RC..0803M0	–	–	–	**MS1154**	T9
1097899	**SRDCN1616H06**	16	16	11,0	100	16,0	RC..0602M0	–	–	–	**MS1153**	T7
1097897	**SRDCN1616H08**	16	16	12,0	100	16,0	RC..0803M0	–	–	–	**MS1154**	T9
1097898	**SRDCN1616H10**	16	16	13,0	100	16,0	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097893	**SRDCN1616Q08**	16	16	12,0	180	16,0	RC..0803M0	–	–	–	**MS1154**	T9
1097900	**SRDCN2020K08**	20	20	14,0	125	20,0	RC..0803M0	–	–	–	**MS1154**	T9
1097901	**SRDCN2020K10**	20	20	15,0	125	20,0	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097894	**SRDCN2020K12**	20	20	16,0	125	20,0	RC..1204M0	**SKRN1203M0**	**SRS3**	3.5 mm	**MS1156**	T15
1097903	**SRDCN2525M08**	25	25	16,5	150	25,0	RC..0803M0	–	–	–	**MS1154**	T9
1097902	**SRDCN2525M10**	25	25	17,5	150	25,0	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097895	**SRDCN2525M12**	25	25	18,5	150	25,0	RC..1204M0	**SKRN1203M0**	**SRS3**	3.5 mm	**MS1156**	T15
1097896	**SRDCN2525M16**	25	25	20,5	150	25,0	RC..1605M0	**SKRN160400**	**SRS5**	4 mm	**MS1160**	T15



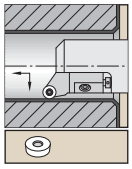


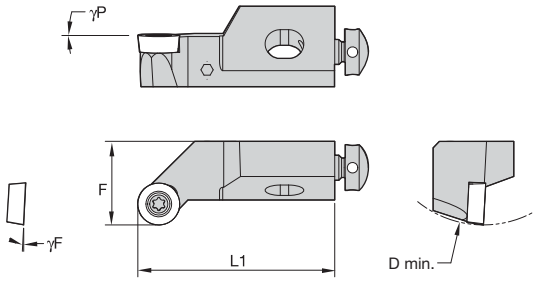


SRGC



Sipariş numarası	Katalog numarası	H	B	F	L1	CD	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü												
1097792	**SRGCR1616H06**	16	16	20,0	100	7,0	RC..0602M0	–	–	–	**MS1153**	T7
1097791	**SRGCR1616H10**	16	16	20,0	100	7,9	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097793	**SRGCR2020K08**	20	20	25,0	125	9,0	RC..0803M0	–	–	–	**MS1154**	T9
1097794	**SRGCR2020K10**	20	20	25,0	125	9,3	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097796	**SRGCR2525M08**	25	25	32,0	150	11,8	RC..0803M0	–	–	–	**MS1154**	T9
1097795	**SRGCR2525M10**	25	25	32,0	150	12,1	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097788	**SRGCR2525M12**	25	25	32,0	150	12,7	RC..1204M0	**SKRN1203M0**	**SRS3**	3.5 mm	**MS1156**	T15
Sol yönlü												
1097937	**SRGCL1616H06**	16	16	20,0	100	7,0	RC..0602M0	–	–	–	**MS1153**	T7
1097936	**SRGCL1616H10**	16	16	20,0	100	7,9	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097938	**SRGCL2020K08**	20	20	25,0	125	9,0	RC..0803M0	–	–	–	**MS1154**	T9
1097941	**SRGCL2525M08**	25	25	32,0	150	11,8	RC..0803M0	–	–	–	**MS1154**	T9
1097940	**SRGCL2525M10**	25	25	32,0	150	12,1	RC..10T3M0	**SKRN100300**	**SRS3**	3.5 mm	**MS1156**	T15
1097933	**SRGCL2525M12**	25	25	32,0	150	12,7	RC..1204M0	**SKRN1203M0**	**SRS3**	3.5 mm	**MS1156**	T15

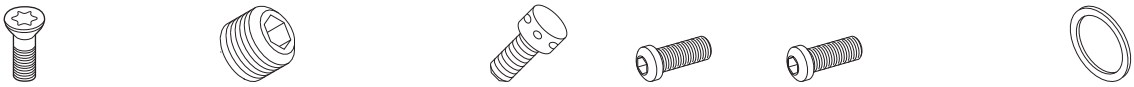




SRGC

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098711	**SRGCR08CA06**	25	10,0	32	-4.0	0.0	RC..0602M0/RC..215
1098713	**SRGCR12CA10**	50	20,0	55	-3.0	0.0	RC..10T3M0/RC..10T3M0

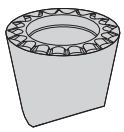
Yedek parçalar

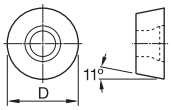


D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Altıgen	Yaylı halka
25	**MS1153**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	**–**	2.5 mm	**CSWM 040 050**
50	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**

ISO Karbür kesici uçlar

● İlk tercih
○ Alternatif tercih





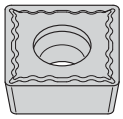
RPGT-MP

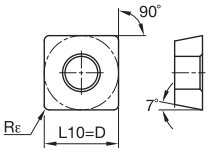
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
RPGT060400MP	6,35	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

NOT: V tabanlı tip tutucuları için lütfen B370 sayfasına bakınız.

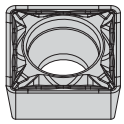
● İlk tercih
○ Alternatif tercih

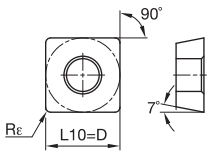




SCMT-11

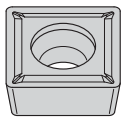
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
SCMT09T30411	9,53	9,53	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
SCMT09T30811	9,53	9,53	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
SCMT12040411	12,70	12,70	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
SCMT12040811	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

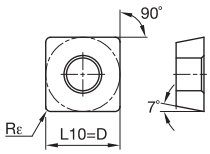




SCMT-FP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T304FP	9,53	9,53	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	–
SCMT09T308FP	9,53	9,53	0,8	–	–	●	●	●	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	●
SCMT120404FP	12,70	12,70	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120408FP	12,70	12,70	0,8	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120412FP	12,70	12,70	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

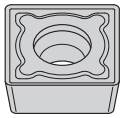


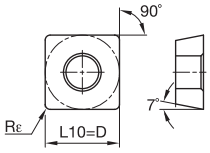


SCMT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T304LF	9,53	9,53	0,4	–	●	●	●	●	●	–	●	●	●	–	●	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
SCMT09T308LF	9,53	9,53	0,8	–	●	●	●	●	●	–	●	●	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–
SCMT120404LF	12,70	12,70	0,4	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–
SCMT120408LF	12,70	12,70	0,8	–	●	–	●	●	●	–	–	●	●	●	●	●	–	●	●	●	–	–	–	–	–	–	–	●	●	–	–	–
SCMT120412LF	12,70	12,70	1,2	–	●	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

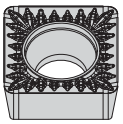
● İlk tercih
○ Alternatif tercih

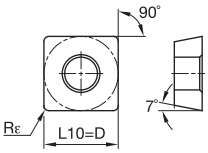




SCMT-MF

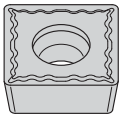
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T312MF	9,53	9,52	1,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMT09T308MF	9,53	9,53	0,8	–	●	●	●	●	–	–	–	–	●	●	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
SCMT120408MF	12,70	12,70	0,8	–	–	●	●	●	●	–	–	–	●	●	●	●	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–
SCMT120412MF	12,70	12,70	1,2	–	–	●	●	●	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

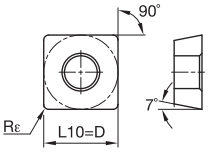




SCMT-MP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T304MP	9,53	9,53	0,4	–	–	–	–	●	–	–	–	–	–	–	–	●	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT09T308MP	9,53	9,53	0,8	–	–	●	●	●	–	–	–	–	–	–	●	–	–	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120404MP	12,70	12,70	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120408MP	12,70	12,70	0,8	–	–	●	–	●	–	–	–	–	–	–	●	●	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
SCMT120412MP	12,70	12,70	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–





SCMT-UF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SCMT09T308UF	9,53	9,53	0,8	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

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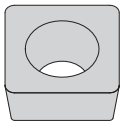
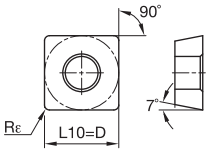
● İlk tercih
○ Alternatif tercih





SCMW

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		P	P	P	P		P	P
										M							M	M	M	M	M	M	M	M	M	M	M	M		M	M
				K	K	K	K	K			K	K	K	K	K	K						K	K	K		K	K	K	K		K	K
				N																		N	N	N		N	N	N	N	N		
				S																		S	S	S	S	S	S	S				
				H																												
SCMW09T304	9,53	9,53	0,4	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMW09T308	9,53	9,53	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMW120408	12,70	12,70	0,8	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SCMW120412	12,70	12,70	1,2	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Mobil uygulamalar

Kennametal mobil uygulaması, iPhone® ve Android™ gibi her iki işlemciden birine sahip cihazlarda ürün bilgisine kolay erişim sağlar. Burada özellikle bir dizi önemli işlevleri vurguladık...

Bunu kapsayan bir uygulama var.

KESME HIZLARI VE İLERLEMELER

Metal işleme takımları için kesme hızları ve ilerlemeleri ile ilgili bilgiye erişim.

ÜRÜN BULUNABİLİRLİĞİ

Ürünlerin global kullanılabilirliğini kontrol edilir. Konnect giriş bilgilerinizi sağlayarak mevcut miktarlar görüntülenir.

HESAPLAYICILAR

Frezeleme ve delme uygulamaları için işleme hesaplayıcılarımızdan yararlanılır.

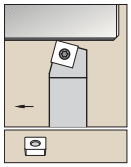
Kesici uç paketindeki barkodun taranması ile takım ömrü, iş süreci ve talaş kontrolüne yönelik en verimli kesme değerlerine ve koşullarına erişim olanağı sağlanır.

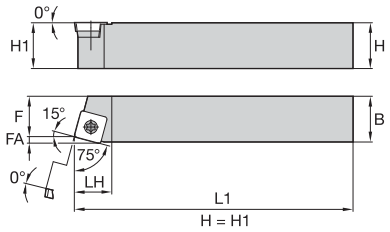


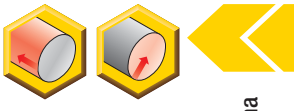
NOT: Uygulama şu anda sadece İngilizce dil sürümünde bulunmaktadır. Bu uygulamanın farklı dillere çevrilerek gelecekteki sürümler ile sunulması planlanmıştır.

Google play

Available on the App Store





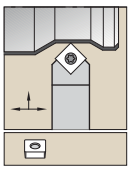


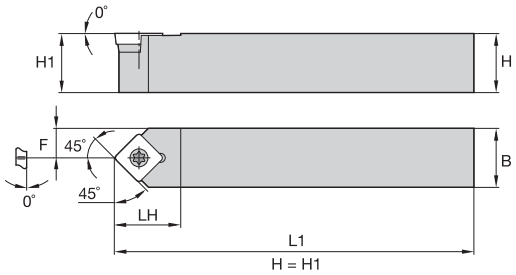
SSBC 75°





Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü													
1097863	**SSBCR1212N09**	12	12	11,0	160	16,0	2,2	SC..09T308	–	–	–	**MS1155**	T15
1097867	**SSBCR2525M12**	25	25	22,0	150	21,0	3,1	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15
Sol yönlü													
1098009	**SSBCL1616H09**	16	16	13,0	100	16,0	2,2	SC..09T308	**SKSP343**	**SRS3**	3.5 mm	**MS1156**	T15





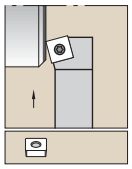


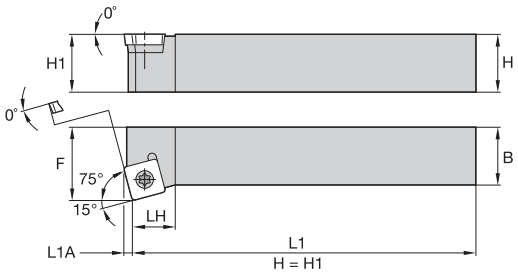
SSDC 45°

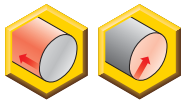




Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
1098005	**SSDCN1212N09**	12	12	6,0	160	18,0	SC..09T308	–	–	–	**MS1155**	T15
1098006	**SSDCN1616H09**	16	16	8,0	100	18,0	SC..09T308	**SKSP343**	**SRS3**	3.5 mm	**MS1156**	T15
1098007	**SSDCN2020K09**	20	20	10,0	125	18,0	SC..09T308	**SKSP343**	**SRS3**	3.5 mm	**MS1156**	T15



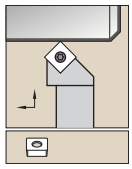


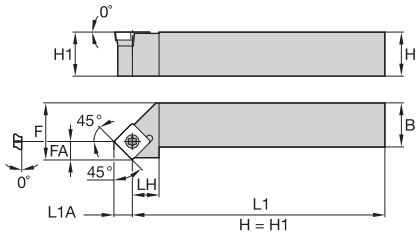


SSKC 75°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü													
1097882	**SSKCR1616H09**	16	16	20,0	100	16,0	2,2	SC..09T308	**SKSP343**	**SRS3**	3.5 mm	**MS1156**	T15
Sol yönlü													
1098027	**SSKCL2020K12**	20	20	25,0	125	22,0	3,1	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15



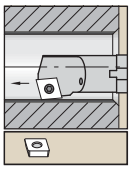




SSSC 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	L1A	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü														
1097808	**SSSCR1212N09**	12	12	16,0	160	18,0	5,8	6,1	SC..09T308	–	–	–	**MS1155**	T15
1097809	**SSSCR1616H09**	16	16	20,0	100	18,0	6,1	6,1	SC..09T308	**SKSP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097811	**SSSCR1616H12**	16	16	20,0	100	25,0	8,3	8,3	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15
1097810	**SSSCR2020K12**	20	20	25,0	125	25,0	8,1	8,3	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15
1244982	**SSSCR2525M12**	25	25	32,0	150	25,0	8,1	8,3	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15
Sol yönlü														
1097953	**SSSCL1212N09**	12	12	16,0	160	18,0	5,8	6,1	SC..09T308	–	–	–	**MS1155**	T15
1097954	**SSSCL1616H09**	16	16	20,0	100	18,0	5,8	6,1	SC..09T308	**SKSP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097956	**SSSCL1616H12**	16	16	20,0	100	25,0	8,1	8,3	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15
1097955	**SSSCL2020K12**	20	20	25,0	125	25,0	8,1	8,3	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15
1514473	**SSSCL2525M12**	25	25	32,0	150	25,0	8,1	8,3	SC..120408	**SKSP453**	**SRS4**	4 mm	**MS1158**	T15



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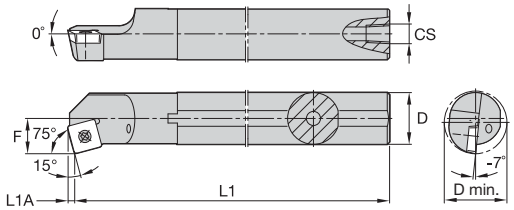
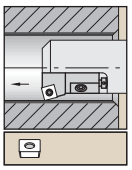


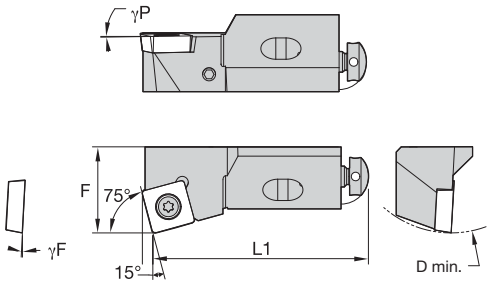
A-SSKC 75°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L1A	CS	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1886510	**A16RSSKCR09**	16	20,0	11,0	200	2,2	1/8-27 NPT	SC..09T308	**MS1155**	T15

Vida bağlamalı kartuşlar





SSKC 75°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098719	**SSKCR12CA12**	50	20,0	55	-3.0	0.0	SC..120408/SC..432
1098720	**SSKCR16CA12**	60	25,0	63	-3.0	0.0	SC..120408/SC..432
Sol yönlü							
1098721	**SSKCL12CA12**	50	20,0	55	-3.0	0.0	SC..120408/SC..432

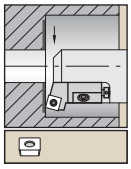
Yedek parçalar

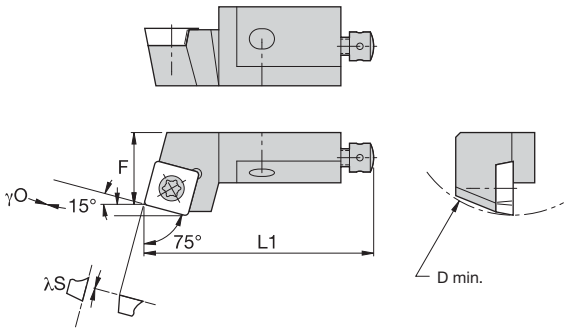






D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**
60	**MS1157**	T15	**KUAM25**	2.5 mm	**KUAM32**	**191.407**	5 mm	**CSWM 080 050**





SSRC 75°

Sipariş numarası	Katalog numarası	D min.	F	L1	λS°	γO°	Ayar ucu
Sağ yönlü							
1098723	**SSRCR12CA12**	50	20,0	55	-3.0	0.0	SC..120408/SC..432
Sol yönlü							
1098725	**SSRCL12CA12**	50	20,0	55	-3.0	0.0	SC..120408/SC..432

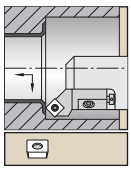
Yedek parçalar

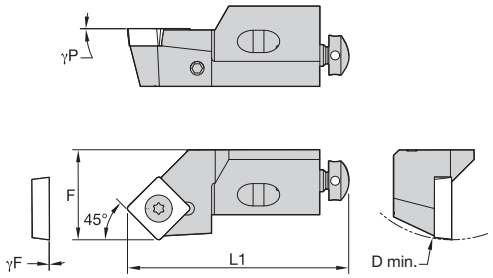






D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**





SSSC 45°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098737	**SSSCR12CA12**	50	20,0	47	-3.0	0.0	SC..120408/SC..432
Sol yönlü							
1098739	**SSSCL12CA12**	50	20,0	47	-3.0	0.0	SC..120408/SC..432

Yedek parçalar

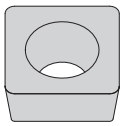


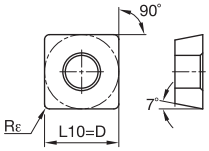




D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	**MS1157**	T15	**KUAM23**	2.5 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**

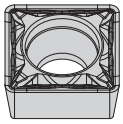
● İlk tercih
○ Alternatif tercih

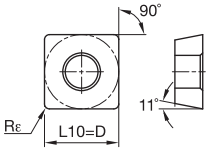




SPGT-LF

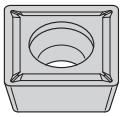
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
SPGT09T304LF	9,53	9,53	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
SPGT09T308LF	9,53	9,53	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–

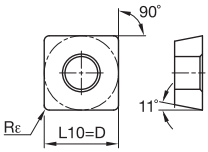




SPMT-FP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T304FP	9,53	9,53	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
SPMT09T308FP	9,53	9,53	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

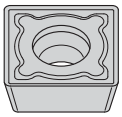


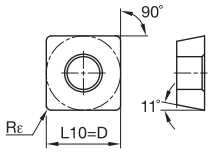


SPMT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T304LF	9,53	9,53	0,4	–	–	●	–	●	–	–	–	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
SPMT09T308LF	9,53	9,53	0,8	–	●	–	●	●	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–

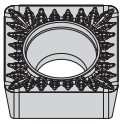
● İlk tercih
○ Alternatif tercih

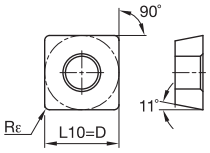




SPMT-MF

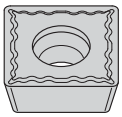
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
SPMT09T308MF	9,53	9,53	0,8	–	–	●	●	●	–	–	–	–	●	●	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
SPMT120408MF	12,70	12,70	0,8	–	–	–	–	●	●	–	–	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–

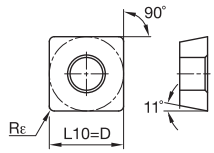




SPMT-MP

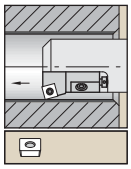
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T308MP	9,53	9,53	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	–	–	–
SPMT120408MP	12,70	12,70	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

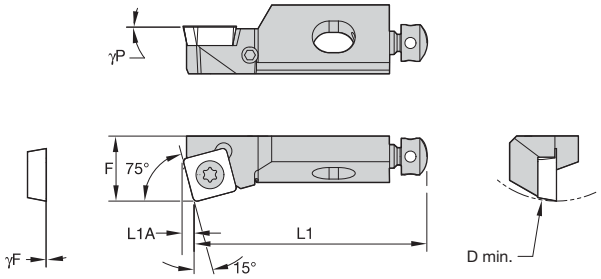




SPMT-UF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
SPMT09T304UF	9,53	9,53	0,4	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–





SSKP 75°

Sipariş numarası	Katalog numarası	D min.	F	L1	λS°	γF°	γP°	Ayar ucu
Sağ yönlü								
1098570	**SSKPR10CA09**	40	14,0	50	0.0	0.0	0.0	SP..09T308/SP..3252

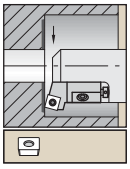
Yedek parçalar

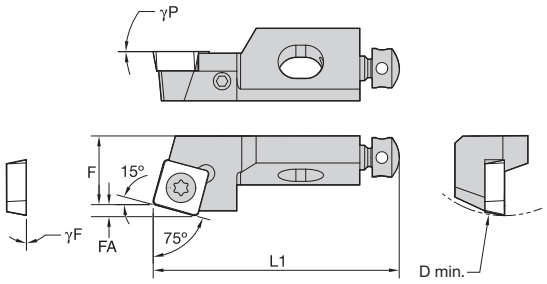






D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
40	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





SSRP 75°

Sipariş numarası	Katalog numarası	D min.	F	FA	L1	γF°	γP°	Ayar ucu
Sağ yönlü								
1098574	**SSRPR10CA09**	40	14,0	2,2	50	0.0	0.0	SP..09T308/SP..3252

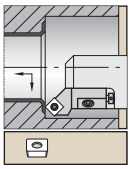
Yedek parçalar

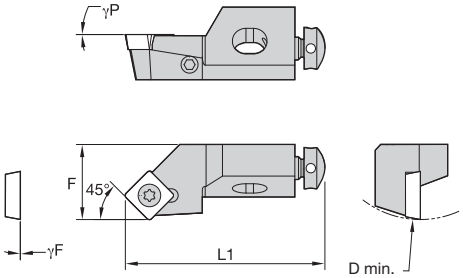






D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
40	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





SSSP 45°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098572	**SSSPR10CA09**	40	14,0	44	0.0	0.0	SP..09T308/SP..3252
Sol yönlü							
1098764	**SSSPL10CA09**	40	14,0	44	0.0	0.0	SP..09T308/SP..3252

Yedek parçalar







D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
40	**MS1155**	T15	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**

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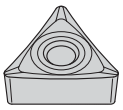
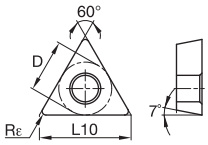
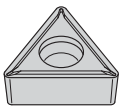
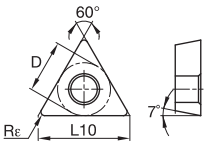




TCGT-HP

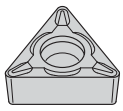
				KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
ISO Katalog numarası	D	L10	Rε																													
TCGT110202HP	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–	–
TCGT110204HP	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–
TCGT110208HP	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
TCGT16T302HP	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCGT16T304HP	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
TCGT16T308HP	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–

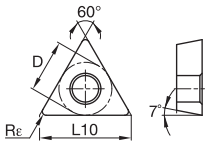




TCGT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCGT110201LF	6,35	11,00	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–	–
TCGT110204LF	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
TCGT16T301LF	9,53	16,50	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TCGT16T302LF	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TCGT16T304LF	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TCGT16T308LF	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–





TCMT-11

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT11020411	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
TCMT16T30411	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
TCMT16T30811	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

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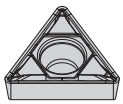
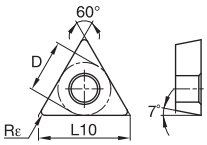
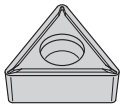


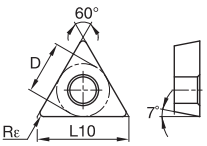


TCMT-FP

		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT090204FP	5,56	9,63	0,4	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT090208FP	5,56	9,63	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT110202FP	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
TCMT110204FP	6,35	11,00	0,4	–	–	●	–	●	–	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	●	●	–	–	–	–	●
TCMT110304FP	6,35	11,00	0,4	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT110208FP	6,35	11,00	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT110308FP	6,35	11,00	0,8	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT110312FP	6,35	11,00	1,2	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T304FP	9,53	16,50	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT16T308FP	9,53	16,50	0,8	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	–	–	–	●
TCMT16T312FP	9,53	16,50	1,2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TCMT220408FP	12,70	22,00	0,8	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	–	–	–	–





TCMT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110202LF	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–
TCMT110204LF	6,35	11,00	0,4	–	●	●	●	●	●	–	–	●	●	●	●	●	●	●	●	–	●	–	–	–	–	–	●	●	●	–	●	–
TCMT110208LF	6,35	11,00	0,8	–	–	●	●	●	●	–	–	●	●	●	●	●	–	●	●	–	–	–	–	–	–	–	–	●	●	–	●	–
TCMT16T302LF	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
TCMT16T304LF	9,53	16,50	0,4	–	●	●	●	●	–	–	–	●	–	●	●	●	–	●	●	●	●	–	–	–	–	–	–	●	●	–	●	–
TCMT16T308LF	9,53	16,50	0,8	–	●	●	●	●	●	–	●	–	●	●	●	●	–	–	●	●	●	–	–	–	–	–	–	●	●	–	●	–
TCMT16T312LF	9,53	16,50	1,2	–	●	–	–	●	–	–	–	–	–	●	●	●	–	–	–	●	–	–	–	–	–	–	–	●	–	–	–	–
TCMT220408LF	12,70	22,00	0,8	–	●	–	●	●	–	–	–	–	●	–	●	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–

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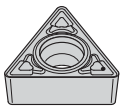
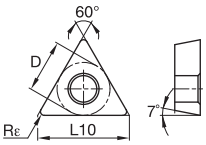
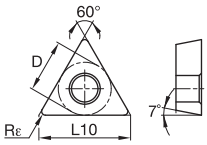




TCMT-MF

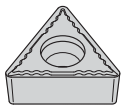
				P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
				M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
				K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
				N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
				S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
				H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110208MF	6,35	11,00	0,8	–	–	–	●	●	–	–	–	–	–	●	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
TCMT16T308MF	9,53	16,50	0,8	–	–	●	●	●	●	–	–	–	●	●	●	●	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–
TCMT16T312MF	9,53	16,50	1,2	–	–	●	●	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–

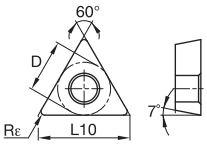




TCMT-MP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110208MP	6,35	11,00	0,8	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T304MP	9,53	16,50	0,4	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	●	●	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T308MP	9,53	16,50	0,8	–	–	●	–	●	–	–	–	–	–	–	●	–	–	●	●	●	–	–	–	–	–	●	–	–	–	–	–	–
TCMT16T312MP	9,53	16,50	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





TCMT-UF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TCMT110204UF	6,35	11,00	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCMT110208UF	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TCMT16T308UF	9,53	16,50	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

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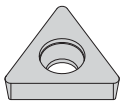
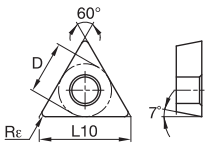
○ Alternatif tercih





TCMW

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
TCMW16T304	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TCMW16T308	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Mobil uygulamalar

Kennametal mobil uygulaması, iPhone® ve Android™ gibi her iki işlemciden birine sahip cihazlarda ürün bilgisine kolay erişim sağlar. Burada özellikle bir dizi önemli işlevleri vurguladık...

Bunu kapsayan bir uygulama var.

KESME HIZLARI VE İLERLEMELER

Metal işleme takımları için kesme hızları ve ilerlemeleri ile ilgili bilgiye erişim.

ÜRÜN BULUNABİLİRLİĞİ

Ürünlerin global kullanılabilirliğini kontrol edilir. Konnect giriş bilgilerinizi sağlayarak mevcut miktarlar görüntülenir.

HESAPLAYICILAR

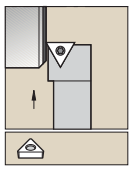
Frezeleme ve delme uygulamaları için işleme hesaplayıcılarımızdan yararlanılır.

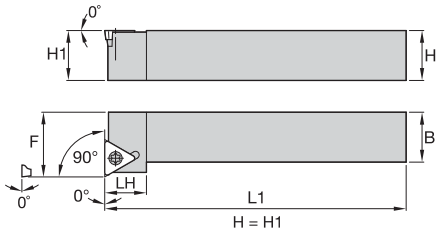


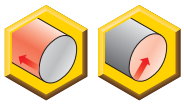
Kesici uç paketindeki barkodun taranması ile takım ömrü, iş süreci ve talaş kontrolüne yönelik en verimli kesme değerlerine ve koşullarına erişim olanağı sağlanır.

NOT: Uygulama şu anda sadece İngilizce dil sürümünde bulunmaktadır. Bu uygulamanın farklı dillere çevrilerek gelecekteki sürümler ile sunulması planlanmıştır.

Google play | Available on the App Store



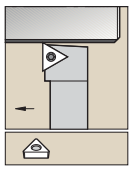


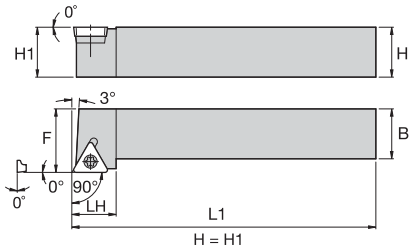


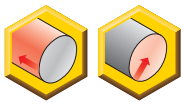
STFC 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü												
1244940	**STFCR1616H11**	16	16	20,0	100	16,0	TC..110204	–	–	–	**MS1153**	T7
1097880	**STFCR1616H16**	16	16	20,0	100	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097877	**STFCR2020K16**	20	20	25,0	125	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097878	**STFCR2525M16**	25	25	32,0	150	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
Sol yönlü												
1098022	**STFCL2020K16**	20	20	25,0	125	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1098023	**STFCL2525M16**	25	25	32,0	150	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15



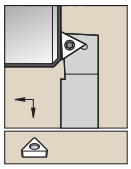


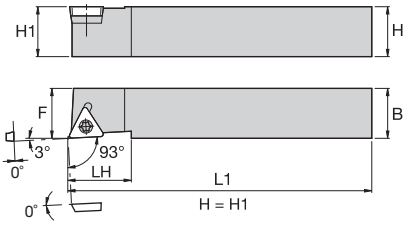


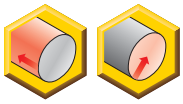
STGC 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü												
1097869	**STGCR1212N11**	12	12	16,0	160	16,0	TC..110204	–	–	–	**MS1153**	T7
1244944	**STGCR1616H11**	16	16	20,0	100	16,0	TC..110204	–	–	–	**MS1153**	T7
1097874	**STGCR1616H16**	16	16	20,0	100	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097870	**STGCR2020K16**	20	20	25,0	125	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1097871	**STGCR2525M16**	25	25	32,0	150	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
Sol yönlü												
1098014	**STGCL1212N11**	12	12	16,0	160	16,0	TC..110204	–	–	–	**MS1153**	T7
1244943	**STGCL1616H11**	16	16	20,0	100	16,0	TC..110204	–	–	–	**MS1153**	T7
1098019	**STGCL1616H16**	16	16	20,0	100	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1098015	**STGCL2020K16**	20	20	25,0	125	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
1098016	**STGCL2525M16**	25	25	32,0	150	20,0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15



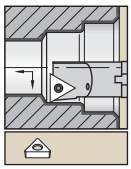




STJC-F 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü									
1772197	**STJCRF1212M11Q**	12	12	12,0	150	16,0	TC..110204	**MS1153**	T7
Sol yönlü									
1772198	**STJCLF1212M11Q**	12	12	12,0	150	16,0	TC..110204	**MS1153**	T7



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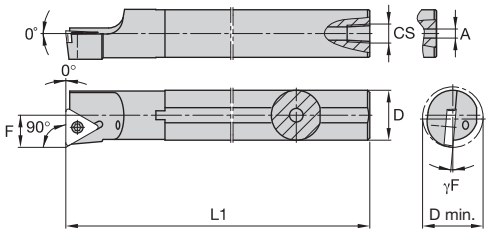


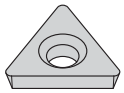


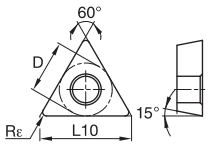
A-STFC 90°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	CS	γF°	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü														
1098207	**A10KSTFCR11**	10	13,0	7,0	125	3,2	–	-7.0	TC..110204	–	–	–	**MS1153**	T7
1098211	**A12MSTFCR11**	12	16,0	9,0	150	–	1/16-27 NPT	-6.0	TC..110204	–	–	–	**MS1153**	T7
1098286	**A32TSTFCR16**	32	40,0	22,0	300	–	1/4-18 NPT	-2.0	TC..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
Sol yönlü														
1098209	**A10KSTFCL11**	10	13,0	7,0	125	3,2	–	-7.0	TC..110204	–	–	–	**MS1153**	T7
1098213	**A12MSTFCL11**	12	16,0	9,0	150	–	1/16-27 NPT	-6.0	TC..110204	–	–	–	**MS1153**	T7

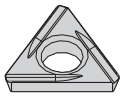
● İlk tercih
○ Alternatif tercih

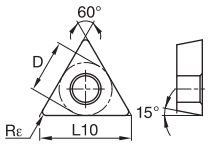




TDHB

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TDHB07T12S0	4,06	7,04	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	●	–
TDHB07T1202	4,06	7,04	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–
TDHB07T1204	4,06	7,04	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–
TDHB07T1208	4,06	7,04	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–

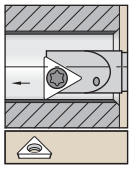




TDHH

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TDHH07T1202L	4,06	7,04	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
TDHH07T1202R	4,06	7,04	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TDHH07T1204L	4,06	7,04	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
TDHH07T1204R	4,06	7,04	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

NOT: Sağ yönlü kesici uçlar sol yönlü baralarla kullanır. Sol yönlü kesici uçlar sağ yönlü baralarla kullanır.



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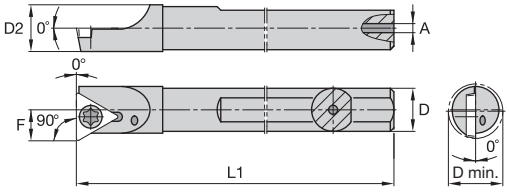
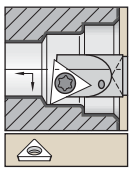




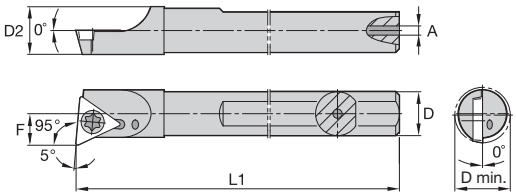
A-STFD 90°



Sipariş numarası	Katalog numarası	D	D min.	D2	F	L1	A	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1288884	**A06HSTFDR07**	6	7,1	6,2	3,7	100	1,0	TD..07S102	**FC11**	T7
1288898	**A08HSTFDR07**	8	9,1	8,2	4,8	102	1,5	TD..07S102	**FC14**	T7
Sol yönlü										
1930573	**A12MSTFDL11**	12	13,2	12,2	6,8	152	3,0	TP..110202	**QC26**	T9



İçten soğutmalı çelik şaft.

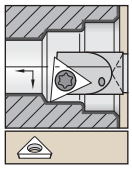




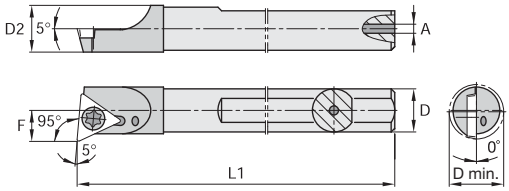
A-STLD 95°



Sipariş numarası	Katalog numarası	D	D min.	D2	F	L1	A	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1288886	**A06HSTLDR07**	6	7,1	6,2	3,7	100	1,0	TD..07S102	**FC11**	T7
1288900	**A08HSTLDR07**	8	9,1	8,2	4,8	102	1,5	TD..07S102	**FC14**	T7



İçten soğutmalı karbür şaft.

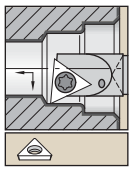




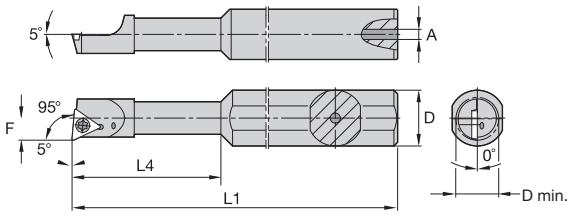
E-STLD 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü									
1270982	**E06MSTLDR07**	6	7,1	3,7	152	1,2	TD..07S102	**FC11**	T7
1270992	**E08MSTLDR07**	8	9,2	4,8	152	2,4	TD..07S102	**FC11**	T7
Sol yönlü									
1270981	**E06MSTLDL07**	6	7,1	3,7	152	1,2	TD..130805	**FC11**	T7
1270991	**E08MSTLDL07**	8	9,1	4,8	152	2,4	TD..07S102	**FC14**	T7



İçten soğutmalı bağlama boyunlu.

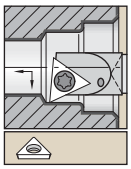




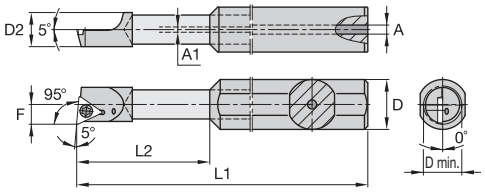
A-STLD 95° • Kademeli



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L4	A	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1289155	**A0612XSTLDR0731**	12	7,5	4,0	76	31,75	1,0	TD..07T1202	**FC11**	T7
Sol yönlü										
1930492	**A0616HSTLDR0731**	16	7,5	4,0	102	31,75	1,0	TD..07S102	**FC14**	T7



İçten soğutmalı bağlama boyunlu karbür şaft.





E-STLD 95° • Kademeli



Sipariş numarası	Katalog numarası	D	D min.	D2	F	L1	L2	A	A1	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü												
1930512	**E0812XSTLDR0738**	12	9,1	7,9	4,8	76	38,1	3,2	2,0	TD..07S102	**FC14**	T7

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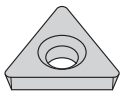
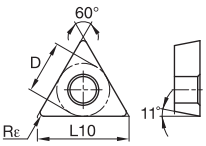
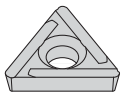
○ Alternatif tercih

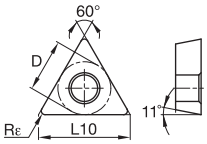




TPCB

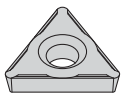
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
TPCB110202	6,35	–	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCB160302	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCB160304	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TD6P	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
TPCB160308	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

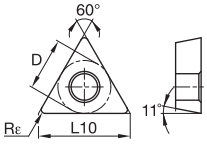




TPCG

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPCG110202L	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCG110204L	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCG110208L	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

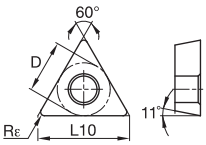




TPCH

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPCH110202	6,50	11,26	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPCH110204	6,50	11,26	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–





TPGH

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPGH160304	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPGH160308	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–

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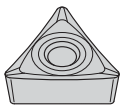
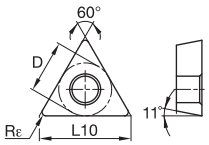
○ Alternatif tercih

TPGT-HP

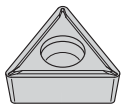


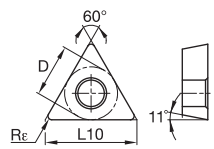


		KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M								○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																				●	●	●		●	●	●	●	●		
S																				●	●	●	●	●	●	●	●			
H																														

ISO Katalog numarası	D	L10	Rε																											
TPGT110202HP	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
TPGT110204HP	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–
TPGT110208HP	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–
TPGT16T302HP	9,53	16,50	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–
TPGT16T304HP	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–
TPGT16T308HP	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	●	–	–	–

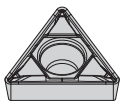
TPGT-LF

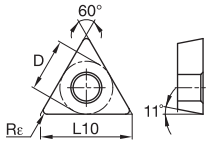




ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPGT090204LF	5,56	9,62	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
TPGT090202LF	5,56	9,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TPGT110201LF	6,35	11,00	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPGT110202LF	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
TPGT110204LF	6,35	11,00	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
TPGT110208LF	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
TPGT16T304LF	9,53	16,50	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
TPGT16T308LF	9,53	16,50	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	–	–

TPMT-FP





ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT090204FP	5,56	9,63	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT090208FP	5,56	9,63	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPMT110202FP	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT110204FP	6,35	11,00	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPMT110304FP	6,35	11,00	0,4	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
TPMT110208FP	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT110308FP	6,35	11,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
TPMT16T304FP	9,53	16,50	0,4	–	–	●	–	●	–	–	–	–	–	–	–	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	–
TPMT16T308FP	9,53	16,50	0,8	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–

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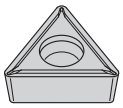
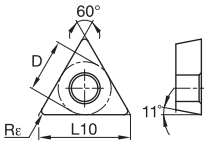
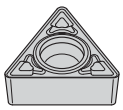
○ Alternatif tercih

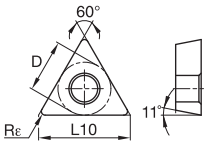




TPMT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P ●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
				M							○						●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
				K ○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
				N																		●	●	●		●	●	●	●	●		
				S																		●	●	●	●	●	●	●	●			
				H																												
TPMT090202LF	5,56	9,63	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPMT090204LF	5,56	9,63	0,4	–	●	–	●	●	–	–	–	●	–	●	–	–	●	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–
TPMT110202LF	6,35	11,00	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPMT110204LF	6,35	11,00	0,4	–	●	●	●	●	–	–	–	–	●	–	–	●	–	●	●	–	–	–	●	–	–	–	–	●	●	–	●	–
TPMT110208LF	6,35	11,00	0,8	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
TPMT16T304LF	9,53	16,50	0,4	–	●	●	●	●	–	–	–	●	–	●	–	–	–	●	●	–	–	–	–	–	–	–	–	●	●	–	●	–
TPMT16T308LF	9,53	16,50	0,8	–	●	–	●	●	–	–	–	●	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	●	●	–	●	–
TPMT220408LF	12,70	22,00	0,8	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–

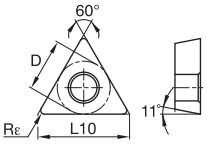




TPMT-MF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT110208MF	6,35	11,00	0,8	–	–	–	●	●	–	–	–	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T308MF	9,53	16,50	0,8	–	–	●	–	●	●	–	–	–	–	●	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T312MF	9,53	16,50	1,2	–	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–





TPMT-MP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT110208MP	6,35	11,00	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T308MP	9,53	16,50	0,8	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT16T312MP	9,53	16,50	1,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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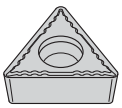
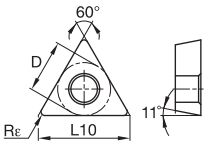
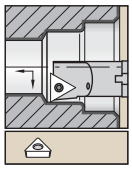




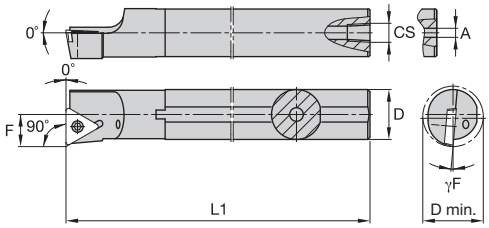
TPMT-UF

	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M							○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K	○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																			●	●	●		●	●	●	●	●		
S																			●	●	●	●	●	●	●	●			
H																													

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
TPMT110202UF	6,35	11,00	0,2	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TPMT110204UF	6,35	11,00	0,4	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
TPMT16T308UF	9,53	16,50	0,8	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



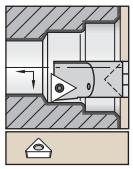
İçten soğutmalı çelik şaft.



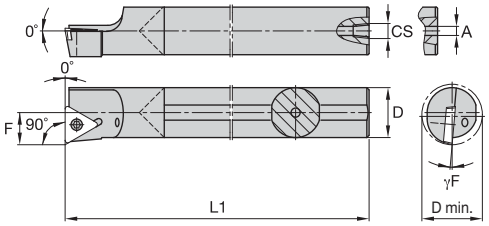
A-STFP 90°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	CS	γF°	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü														
1098154	**A08JSTFPR09**	8	11,0	6,0	110	2,4	–	-8.0	TP..090204	–	–	–	**MS1933**	T7
1098204	**A10KSTFPR11**	10	13,0	7,0	125	3,2	–	-4.0	TP..110204	–	–	–	**MS1153**	T7
1098210	**A12MSTFPR11**	12	16,0	9,0	150	4,0	1/16-27 NPT	-2.0	TP..110204	–	–	–	**MS1153**	T7
1098214	**A16RSTFPR11**	16	20,0	11,0	200	4,0	1/8-27 NPT	0.0	TP..110204	–	–	–	**MS1153**	T7
1098255	**A20SSTFPR16**	20	25,0	13,0	250	4,0	1/8-27 NPT	-2.0	TP..16T308	–	–	–	**MS1155**	T15
1098273	**A25TSTFPR16**	25	32,0	17,0	300	6,4	1/4-18 NPT	0.0	TP..16T308	–	–	–	**MS1155**	T15
1098285	**A32TSTFPR16**	32	40,0	22,0	300	–	1/4-18 NPT	-2.0	TP..16T308	**SKTP343**	**SRS3**	3.5 mm	**MS1156**	T15
Sol yönlü														
1098155	**A08JSTFPL09**	8	11,0	6,0	110	2,4	–	-8.0	TP..090204	–	–	–	**MS1933**	T7
1098208	**A10KSTFPL11**	10	13,0	7,0	125	3,2	–	-4.0	TP..110204	–	–	–	**MS1153**	T7
1098212	**A12MSTFPL11**	12	16,0	9,0	150	4,0	1/16-27 NPT	-2.0	TP..110204	–	–	–	**MS1153**	T7
1098215	**A16RSTFPL11**	16	20,0	11,0	200	4,0	1/8-27 NPT	0.0	TP..110204	–	–	–	**MS1153**	T7
1098256	**A20SSTFPL16**	20	25,0	13,0	250	4,0	1/8-27 NPT	-2.0	TP..16T308	–	–	–	**MS1155**	T15
1098276	**A25TSTFPL16**	25	32,0	17,0	300	6,4	1/4-18 NPT	0.0	TP..16T308	–	–	–	**MS1155**	T15



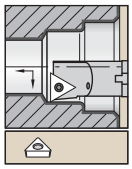
İçten soğutmalı karbür şaft.



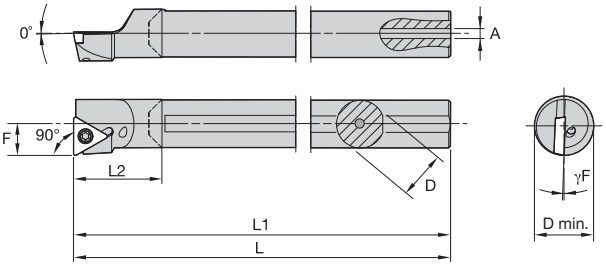
E-STFP 90°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1152860	**E08KSTFPR09A**	8	11,0	6,0	125	2,4	-6.0	TP..090204	**MS1933**	T7
1152862	**E10MSTFPR11A**	10	13,0	7,0	150	3,2	-4.0	TP..110204	**MS1153**	T7
1104311	**E12QSTFPR11**	12	16,0	9,0	180	4,8	-2.0	TP..110204	**MS1153**	T7
1152874	**E16RSTFPR11**	16	20,0	11,0	200	5,5	0.0	TP..110204	**MS1153**	T7
1152908	**E20SSTFPR16**	20	25,0	13,0	250	7,1	-2.0	TP..16T308	**MS1155**	T15
Sol yönlü										
1152863	**E10MSTFPL11A**	10	13,0	7,0	150	3,2	-4.0	TP..110204	**MS1153**	T7
1152873	**E12QSTFPL11**	12	16,0	9,0	180	4,8	-2.0	TP..110204	**MS1153**	T7
1152875	**E16RSTFPL11**	16	20,0	11,0	200	5,5	0.0	TP..110204	**MS1153**	T7
1152909	**E20SSTFPL16**	20	25,0	13,0	250	7,1	-2.0	TP..16T308	**MS1155**	T15



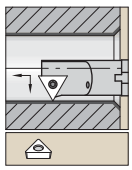
İçten soğutmalı güçlü metal bara.



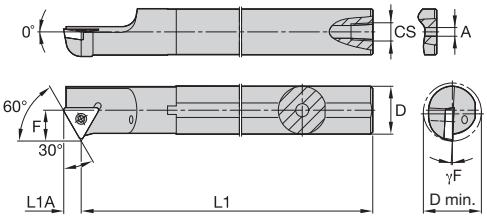
L-STFP 90°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	A	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü											
3331128	**L08KSTFPR09**	8	11,0	6,0	125	19,1	2,4	-6.0	TP..090204..	**MS1933**	T7
3331123	**L12QSTFPR11**	12	16,0	9,0	183	24,4	4,0	-2.0	TP..110204..	**MS1153**	T7
Sol yönlü											
3331131	**L08KSTFPL09**	8	11,0	6,0	125	19,1	2,4	-6.0	TP..090204..	**MS1933**	T7



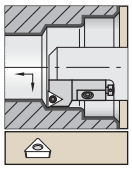
İçten soğutmalı çelik şaft.

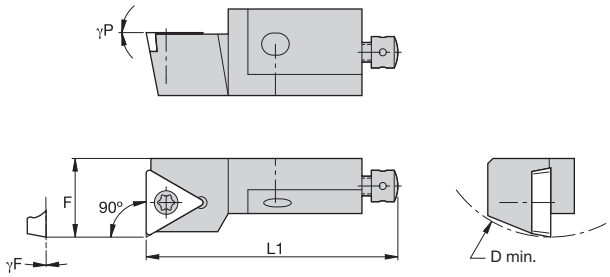


A-STWP 60°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L1A	A	CS	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü												
1098205	**A10KSTWPR11**	10	13,0	7,0	125	5,0	3,2	–	-4.0	TP..110204	**MS1153**	T7
1098216	**A12MSTWPR11**	12	16,0	9,0	150	–	4,0	1/16-27 NPT	-2.0	TP..110204	**MS1153**	T7
1098218	**A16RSTWPR11**	16	20,0	11,0	200	–	4,0	1/8-27 NPT	-2.0	TP..110204	**MS1153**	T7
Sol yönlü												
1098206	**A10KSTWPL11**	10	13,0	7,0	125	–	3,2	–	-4.0	TP..110204	**MS1153**	T7





STFP 90°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098565	**STFPR08CA09**	25	10,0	32	0.0	0.0	TP..090204/TP..18151
1098563	**STFPR10CA11**	40	14,0	50	0.0	0.0	TP..110204/TP..2151
1098562	**STFPR12CA16**	50	20,0	55	0.0	0.0	TP..16T308/TP..3252
Sol yönlü							
1098561	**STFPL08CA09**	25	10,0	32	0.0	0.0	TP..090204/TP..18151
1098559	**STFPL10CA11**	40	14,0	50	0.0	0.0	TP..110204/TP..2151
1098558	**STFPL12CA16**	50	20,0	55	0.0	0.0	TP..16T308/TP..3252

NOT: ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar.
Bu takım TPGM/TPGT/TPGW-21.5_ kesici uçlarla da kullanılabilir.
ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar (örn. TPMT/TPGT/TPGW-32.5_).
90° havşa delikli kesici uçlar (örn. TPGM/TPGB-32.5_) bu takıma uygun değildir.

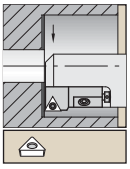
Yedek parçalar

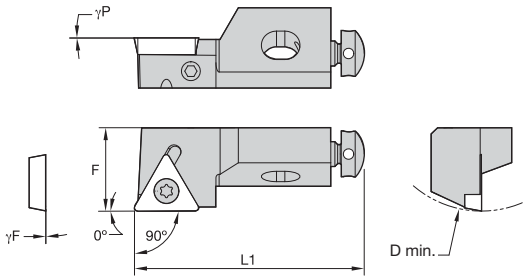







D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Altıgen	Yaylı halka
25	**MS1152**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	**–**	2.5 mm	**CSWM 040 050**
40	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**





STGP 90°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098567	**STGPR10CA11**	40	14,0	50	0.0	0.0	TP..110204/TP..2151
1098566	**STGPR12CA16**	50	20,0	55	0.0	0.0	TP..16T308/TP..3252
Sol yönlü							
1098762	**STGPL08CA09**	25	10,0	32	0.0	0.0	TP..090204/TP..18151
1098760	**STGPL10CA11**	40	14,0	50	0.0	0.0	TP..110204/TP..2151

NOT: ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar.
Bu takım TPGM/TPGT/TPGW-21.5_ kesici uçlarla da kullanılabilir.
ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar (örn. TPMT/TPGT/TPGW-32.5_).
90° havşa delikli kesici uçlar (örn. TPGM/TPGB-32.5_) bu takıma uygun değildir.

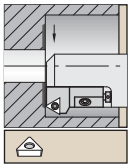
Yedek parçalar

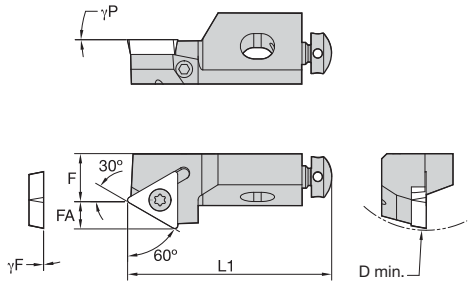







D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Altıgen	Yaylı halka
25	**MS1152**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	**–**	2.5 mm	**CSWM 040 050**
40	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**





STTP 60°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098744	**STTPR08CA09**	25	6,0	32	0.0	0.0	TP..090204/TP..18151
1098742	**STTPR10CA11**	40	9,0	50	0.0	0.0	TP..110204/TP..2151
1098741	**STTPR12CA16**	50	13,0	55	0.0	0.0	TP..16T308/TP..3252

NOT: ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar.
Bu takım TPGM/TPGT/TPGW-21.5_ kesici uçlarla da kullanılabilir.

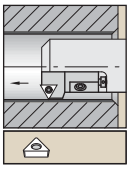
Yedek parçalar

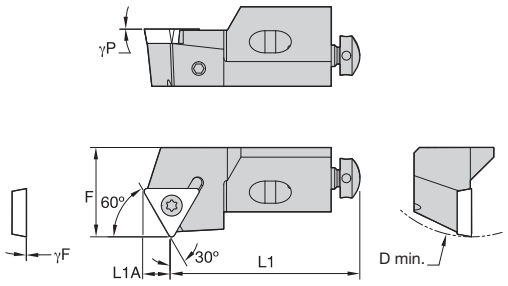







D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Altıgen	Yaylı halka
25	**MS1152**	T7	**KUAM34**	1.5 mm	**KUAM20**	**MS2175**	**–**	2.5 mm	**CSWM 040 050**
40	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**





STWP 60°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
1098750	**STWPR10CA11**	40	14,0	44	0.0	0.0	TP..110204/TP..2151
1098749	**STWPR12CA16**	50	20,0	47	0.0	0.0	TP..16T308/TP..3252

NOT: ANSI/ISO uyumlu 60° havşa başlı delikli kesici uçlar. Bu takım TPGM/TPGT/TPGW-21.5_ kesici uçlarla da kullanılabilir.

Yedek parçalar

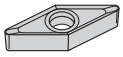


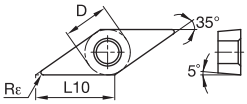





D min.	Kesici uç vidası	Torx	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Altıgen	Yaylı halka
40	**MS1153**	T7	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**MS1155**	T15	**KUAM23**	2.5 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**

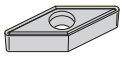
● İlk tercih
○ Alternatif tercih

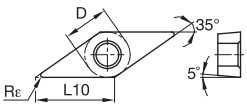




VBGT-HP

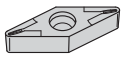
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P		●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
				M								○							●	●	●	●	●	●	●	●	●	●	●	●		●	●
				K		○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
				N																			●	●	●		●	●	●	●	●		
				S																			●	●	●	●	●	●	●	●			
				H																													
VBGT110302HP	6,35	11,07	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
VBGT110304HP	6,35	11,07	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
VBGT160404HP	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	●	●	●	●	–	–
VBGT160408HP	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	●	●	●	●	–	–

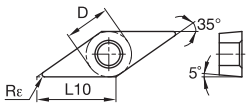




VBGT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBGT1103X0LF	6,35	11,07	0,0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
VBGT110301LF	6,35	11,07	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–
VBGT110302LF	6,35	11,07	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	●	●	–	–	–
VBGT110304LF	6,35	11,07	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	–	–	–
VBGT1604X0LF	9,53	16,61	0,0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
VBGT160401LF	9,53	16,61	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	–	–	–
VBGT160402LF	9,53	16,61	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	●	●	●	–	–
VBGT160404LF	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	●	●	–	–





VBMT-11

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT11030211	6,35	11,07	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
VBMT11030411	6,35	11,07	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
VBMT16040411	9,53	16,61	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–
VBMT16040811	9,53	16,61	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–

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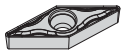
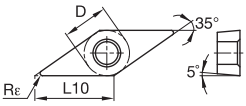
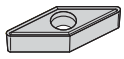
○ Alternatif tercih

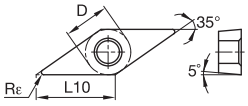




VBMT-FP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
				M								○							●	●	●	●	●	●	●	●	●	●	●	●		●	●
				K	○	○	○	○	○			●	●	●	●	●	●							●	●	●		●	●	●	●		●	●
				N																			●	●	●		●	●	●	●	●		
				S																			●	●	●	●	●	●	●	●			
				H																													
VBMT110302FP	6,35	11,07	0,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
VBMT110304FP	6,35	11,07	0,4	–	–	●	–	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT110308FP	6,35	11,07	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	●	–	–	–	–	–
VBMT160402FP	9,53	16,61	0,2	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT160404FP	9,53	16,61	0,4	●	●	●	●	●	–	–	–	–	–	–	●	–	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT160408FP	9,53	16,61	0,8	●	●	●	●	●	–	–	–	–	–	–	●	●	–	●	–	●	–	–	–	–	–	●	●	–	–	–	–	●
VBMT160412FP	9,53	16,61	1,2	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

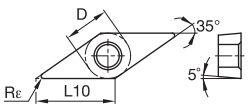




VBMT-LF

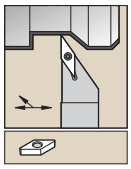
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT110302LF	6,35	11,07	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–
VBMT110304LF	6,35	11,07	0,4	●	●	●	●	●	–	–	–	●	–	–	–	–	–	●	●	–	–	–	●	–	–	–	–	●	●	–	●	–
VBMT110308LF	6,35	11,07	0,8	●	–	●	●	●	–	–	–	●	–	–	●	–	–	–	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–
VBMT160402LF	9,53	16,61	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	●	–	●	–
VBMT160404LF	9,53	16,61	0,4	–	●	●	●	●	●	–	–	–	●	●	●	–	●	●	●	●	●	–	●	–	–	–	–	●	●	–	●	–
VBMT160408LF	9,53	16,61	0,8	●	●	●	●	●	●	–	–	●	●	●	–	●	●	●	●	●	●	–	●	–	–	–	–	●	●	–	●	–
VBMT160412LF	9,53	16,61	1,2	–	–	–	–	●	–	–	–	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

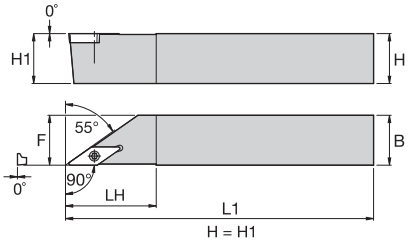


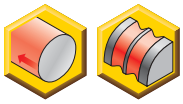


VBMT-MP

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
VBMT160404MP	9,53	16,61	0,4	–	–	–	●	●	–	–	–	–	–	–	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–
VBMT160408MP	9,53	16,61	0,8	–	–	–	●	●	–	–	–	–	–	–	●	●	–	–	●	●	–	–	–	–	–	–	–	–	–	–	–	–



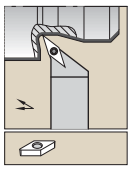


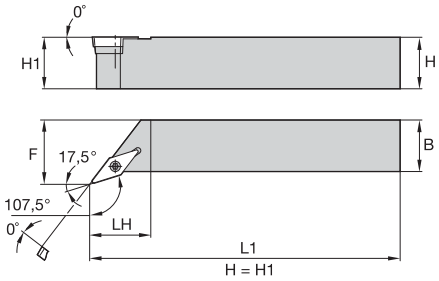


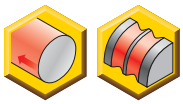
SVAB 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü									
1097722	**SVABR1010M11Q**	10	10	10,0	150	22,0	VB..110304	**MS1153**	T7
1097724	**SVABR1212M11Q**	12	12	12,0	150	22,0	VB..110304	**MS1153**	T7
1097726	**SVABR1616K16Q**	16	16	16,0	125	30,0	VB..160408	**MS1155**	T15
Sol yönlü									
1097725	**SVABL1212M11Q**	12	12	12,0	150	22,0	VB..110304	**MS1153**	T7
1097727	**SVABL1616K16Q**	16	16	16,0	125	30,0	VB..160408	**MS1155**	T15







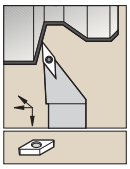
SVHB 107,5°

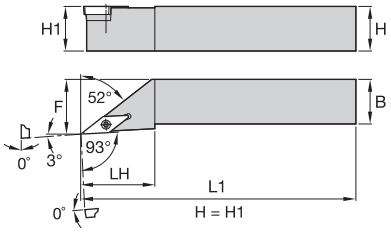


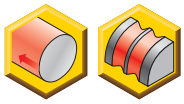




Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü												
1097804	**SVHBR1212N11**	12	12	16,0	160	19,0	VB..110304	–	–	–	**MS1153**	T7
1097805	**SVHBR1616H11**	16	16	20,0	100	19,0	VB..110304	–	–	–	**MS1153**	T7
1244953	**SVHBR2020K11**	20	20	25,0	125	26,0	VB..110304	–	–	–	**MS1153**	T7
1097806	**SVHBR2020K16**	20	20	25,0	125	28,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1097807	**SVHBR2525M16**	25	25	32,0	150	28,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
Sol yönlü												
1097949	**SVHBL1212N11**	12	12	16,0	160	19,0	VB..110304	–	–	–	**MS1153**	T7
1097950	**SVHBL1616H11**	16	16	20,0	100	19,0	VB..110304	–	–	–	**MS1153**	T7
1244949	**SVHBL2020K11**	20	20	25,0	125	26,0	VB..110304	–	–	–	**MS1153**	T7
1097951	**SVHBL2020K16**	20	20	25,0	125	28,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1097952	**SVHBL2525M16**	25	25	32,0	150	28,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15





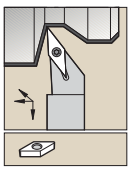


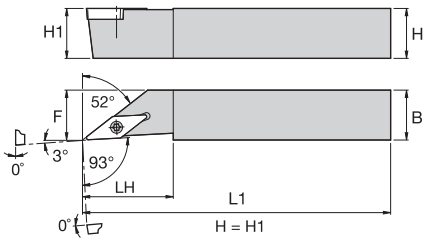
SVJB 93°

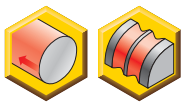




Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü												
1097800	**SVJBR1212N11**	12	12	16,0	160	22,0	VB..110304	–	–	–	**MS1153**	T7
1097801	**SVJBR1616H11**	16	16	20,0	100	22,0	VB..110304	–	–	–	**MS1153**	T7
1244959	**SVJBR1616H16**	16	16	20,0	100	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1252235	**SVJBR2020K11**	20	20	25,0	125	26,0	VB..110304	–	–	–	**MS1153**	T7
1097802	**SVJBR2020K16**	20	20	25,0	125	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1097803	**SVJBR2525M16**	25	25	32,0	150	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1244992	**SVJBR3225P16**	32	25	32,0	170	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
Sol yönlü												
1097945	**SVJBL1212N11**	12	12	16,0	160	22,0	VB..110304	–	–	–	**MS1153**	T7
1097946	**SVJBL1616H11**	16	16	20,0	100	22,0	VB..110304	–	–	–	**MS1153**	T7
1244957	**SVJBL1616H16**	16	16	20,0	100	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1252234	**SVJBL2020K11**	20	20	25,0	125	26,0	VB..110304	–	–	–	**MS1153**	T7
1097947	**SVJBL2020K16**	20	20	25,0	125	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1097948	**SVJBL2525M16**	25	25	32,0	150	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1192560	**SVJBL3225P16**	32	25	32,0	170	35,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15



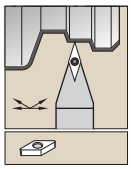


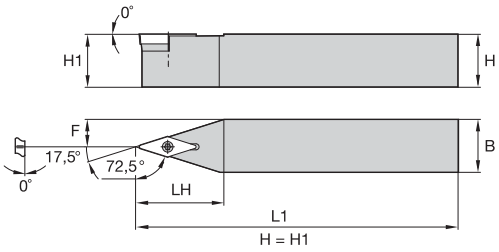


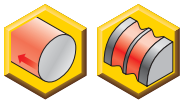
SVJB-F 93°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü									
1097797	**SVJBRF1010M11Q**	10	10	10,0	150	23,0	VB..110304	**MS1153**	T7
1097798	**SVJBRF1212M11Q**	12	12	12,0	150	23,0	VB..110304	**MS1153**	T7
1097799	**SVJBRF1616K16Q**	16	16	16,0	125	31,0	VB..160408	**MS1155**	T15
Sol yönlü									
1097942	**SVJBLF1010M11Q**	10	10	10,0	150	23,0	VB..110304	**MS1153**	T7
1097943	**SVJBLF1212M11Q**	12	12	12,0	150	23,0	VB..110304	**MS1153**	T7
1097944	**SVJBLF1616K16Q**	16	16	16,0	125	31,0	VB..160408	**MS1155**	T15





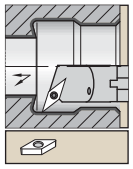


SVVB 72,5°

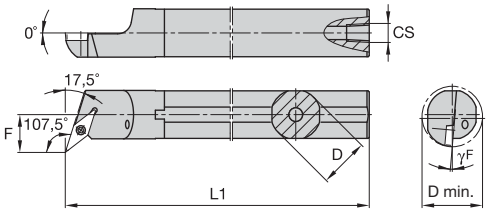


Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
1097990	**SVVBN1212N11**	12	12	6,0	160	26,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1097991	**SVVBN1616H11**	16	16	8,0	100	26,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1244961	**SVVBN1616H16**	16	16	8,0	100	33,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1244962	**SVVBN2020K11**	20	20	10,0	125	26,0	VB..110304	**–**	**–**	–	**MS1153**	T7
1097992	**SVVBN2020K16**	20	20	10,0	125	33,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1097993	**SVVBN2525M16**	25	25	12,5	150	33,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15
1192561	**SVVBN3225P16**	32	25	12,5	170	33,0	VB..160408	**SKVN343**	**SRS3**	3.5 mm	**MS1156**	T15

Vida bağlamalı delik işleme baraları



İçten soğutmalı çelik şaft.

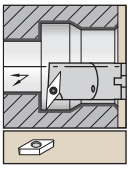




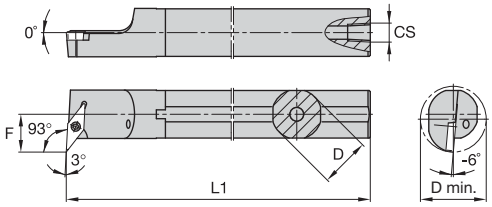
A-SVQB 107,5°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1098232	**A16RSVQBR11**	16	20,0	11,0	200	1/8-27 NPT	-7.0	VB..110304	**MS1153**	T7
1098248	**A20SSVQBR11**	20	25,0	13,0	250	1/8-27 NPT	-6.0	VB..110304	**MS1153**	T7
1098274	**A25TSVQBR16**	25	32,0	17,0	300	1/4-18 NPT	-6.0	VB..160408	**MS1155**	T15
Sol yönlü										
1098233	**A16RSVQBL11**	16	20,0	11,0	200	1/8-27 NPT	-7.0	VB..110304	**MS1153**	T7
1098253	**A20SSVQBL11**	20	25,0	13,0	250	1/8-27 NPT	-6.0	VB..110304	**MS1153**	T7
1098277	**A25TSVQBL16**	25	32,0	17,0	300	1/4-18 NPT	-6.0	VB..160408	**MS1155**	T15



İçten soğutmalı çelik şaft.



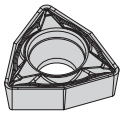


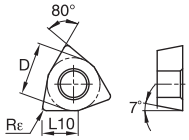
A-SVUB 93°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü									
1098249	**A20SSVUBR11**	20	25,0	13,0	250	1/8-27 NPT	VB..110304	**MS1153**	T7
1098275	**A25TSVUBR16**	25	32,0	17,0	300	1/4-18 NPT	VB..160408	**MS1155**	T15
Sol yönlü									
1098254	**A20SSVUBL11**	20	25,0	13,0	250	1/8-27 NPT	VB..110304	**MS1153**	T7
1098278	**A25TSVUBL16**	25	32,0	17,0	300	1/4-18 NPT	VB..160408	**MS1155**	T15

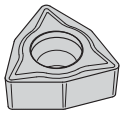
● İlk tercih
○ Alternatif tercih

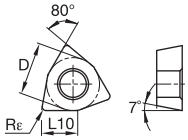




WCMT-FP

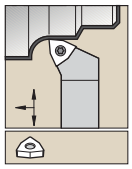
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
P				●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
M										○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
K				○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
N																						●	●	●		●	●	●	●	●		
S																						●	●	●	●	●	●	●	●			
H																																
WCMT040204FP	6,35	4,34	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–	–
WCMT06T308FP	9,53	6,52	0,8	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

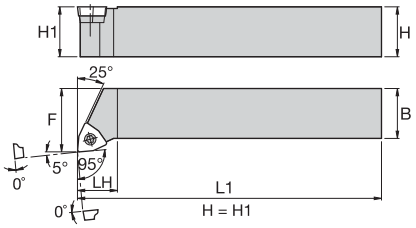




WCMT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WCMT040204LF	6,35	4,34	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
WCMT06T308LF	9,53	6,52	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–





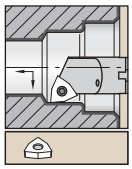


SWLC 95°

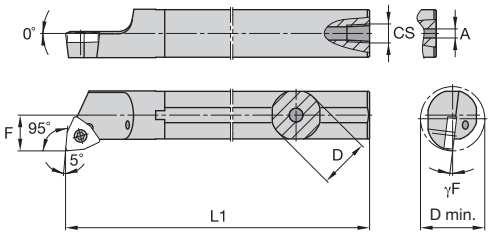


Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Kesici uç vidası	Torx
Sağ yönlü												
1097732	**SWLCR2020K06**	20	20	25,0	125	16,0	WC..06T308	**SKWP343**	**SRS3**	3.5 mm	**MS1156**	T15

Vida bağlamalı delik işleme baraları



İçten soğutmalı çelik şaft.



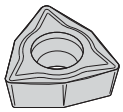


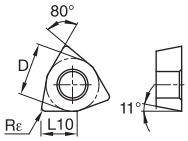
A-SWLC 95°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	CS	γF°	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü											
1328642	**A06MSWLCR2**	10	12,2	6,4	152	3,2	–	-8.0	WC..2151	**MS1939**	T7
1328644	**A08RSWLCR2**	13	15,2	7,9	203	4,0	1/16-27 NPT	-6.0	WC..2151	**MS1153**	T7
1098062	**A10KSWLCR04**	10	13,0	7,0	125	3,0	–	-7.0	WC..040204	**MS1153**	T7
1328646	**A10SSWLCR3**	16	19,6	10,3	254	4,0	1/8-27 NPT	-7.0	WC..3252	**MS1155**	T15
1098063	**A12MSWLCR04**	12	16,0	9,0	150	–	1/16-27 NPT	-6.0	WC..040204	**MS1153**	T7
1098064	**A16RSWLCR06**	16	20,0	11,0	200	4,0	1/8-27 NPT	-7.0	WC..06T308	**MS1155**	T15
1098065	**A20SSWLCR06**	20	25,0	13,0	250	4,0	1/8-27 NPT	-5.0	WC..06T308	**MS1155**	T15
Sol yönlü											
1098069	**A16RSWLCL06**	16	20,0	11,0	200	4,0	1/8-27 NPT	-7.0	WC..06T308	**MS1155**	T15

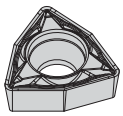
● İlk tercih
○ Alternatif tercih

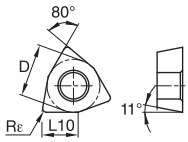




WPGT-UF

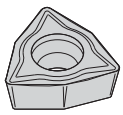
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
				P ●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	●	●	●		●	●	●	●		●	●
				M						○							●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
				K ○	○	○	○	○			●	●	●	●	●	●						●	●	●		●	●	●	●		●	●
				N																		●	●	●		●	●	●	●	●		
				S																		●	●	●	●	●	●	●	●			
				H																												
WPGTS30101UF	4,76	3,26	0,1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
WPGTS30102UF	4,76	3,26	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
WPGT040202UF	6,35	4,34	0,2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

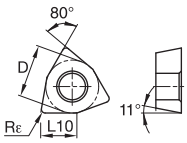




WPMT-FP

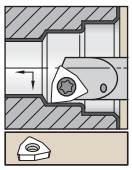
ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WPMTS3T104FP	4,76	3,25	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
WPMT040204FP	6,35	4,34	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–
WPMT06T304FP	9,53	6,52	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
WPMT06T308FP	9,53	6,52	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–



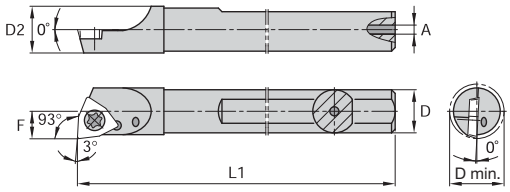


WPMT-LF

ISO Katalog numarası	D	L10	Rε	KCP05	KCP10B	KCP10	KCP25B	KCP25	KCP30	KCP40	KCK05B	KCK05	KCK15B	KCK15	KCK20B	KCK20	KCM15B	KCM15	KCM25B	KCM25	KCM35	KU10	K313	K68	KCS10	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KTP10
WPMTS3T104LF	4,76	3,25	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–
WPMT040204LF	6,35	4,34	0,4	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–
WPMT06T304LF	9,53	6,52	0,4	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
WPMT06T308LF	9,53	6,52	0,8	–	–	–	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



İçten soğutmalı çelik şaft.

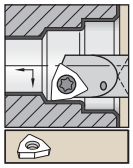




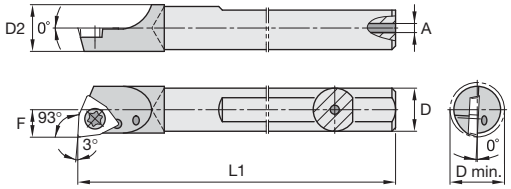
A-SWUP 93°



Sipariş numarası	Katalog numarası	D	D min.	D2	F	L1	A	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1930544	**A06HSWUPRS3**	6	6,8	6,2	3,4	102	1,0	WP..S30104	**CT11**	T6
1930546	**A08HSWUPRS3**	8	8,8	8,2	4,4	102	2,4	WP..S30104	**CT11**	T6
1930556	**A12MSWUPR04**	12	12,9	12,2	6,6	152	4,0	WP..040204	**QTM20**	T7



İçten soğutmalı karbür şaft.





E-SWUP 93°



Sipariş numarası	Katalog numarası	D	D min.	D2	F	L1	A	Ayar ucu	Kesici uç vidası	Torx
Sağ yönlü										
1930550	**E06MSWUPRS3**	6	6,8	6,2	3,4	152	1,2	WP..S30104	**CT11**	T6
1930552	**E08MSWUPRS3**	8	8,8	–	4,4	152	2,4	WP..S30104	**CT11**	T6
1930558	**E10SSWUPR04**	10	11,0	–	5,6	254	3,2	WP..040204	**QTM20**	T7
1930560	**E12SSWUPR04**	12	12,9	–	6,6	254	4,7	WP..040204	**QTM20**	T7
Sol yönlü										
1930549	**E06MSWUPLS3**	6	6,8	6,2	3,4	152	1,2	WP..S30104	**CT11**	T6

Gelişmiş malzemeler içeren kesici uçlarla tornalama

Seramik, PcBN ve PCD Kesici uçlar

Seramikler, PcBN (Çok kristalli kübik bor nitrür) ve PCD (Çok kristalli elmas) gibi gelişmiş malzemelerden üretilmiş tornalama uçları, sert parça tornalamada ve dökme demirlerin, sertleştirilmiş malzemelerin, ısıl dirençli alaşımların ve demir dışı malzemelerin işlenmesinde uygulanabilir.

Seramik, PcBN ve PCD kesici uçların sağladıkları:
- Geliştirilmiş performans.
- Daha yüksek aşınma direnci.



Seramik kesici uçlar

- Dökme demir işleme için silikon nitrür esaslı seramik.
- Sert metal işleme ve dökme demiri hassas son işleme için karışık seramik.
- Isıl dirençli alaşımlar ve sert metal işleme için iplik fiberli (Whisker) seramik.

KYK25



KYS30™

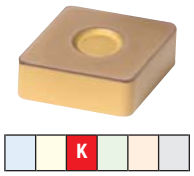


PcBN (Çok kristalli kübik bor nitrür)

Dolu kesici uçlar

- Kesici uçlar sadece PcBN' den üretilir.
- Birleşik malzeme yok.
- Çok iyi ısı emme yeteneği.
- Çok yüksek ısıda çalışabilir.

KBK45



Uçlu kesici uçlar

- Bir taşıyıcı ve bir PcBN uç gerektirir.
- Uçlar bir taşıyıcıya lehimlidir.
- Altyapıda ucun uyacağı ve ucu destekleyecek bir uç yuvası olmalıdır.

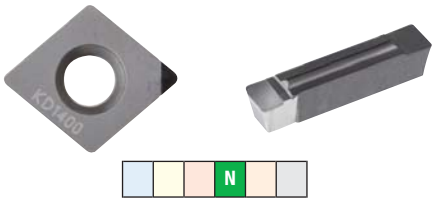
KBH20™



PCD (Çok kristalli elmas)

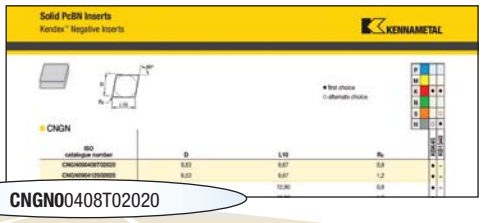
- Demir dışı malzemelerin hedeflenen işlenmeleri.
- Sertlik konusunda karbür takımlara karşın gözle görünür avantaj.
- Daha yüksek hızlar ve daha uzun takım ömrü sayesinde artan üretkenlik.
- Alışagelmiş geleneksel takımlama ile işlenemeyen malzemeleri daha iyi işlemede kullanılır.

KD1400



Katalog numaraları nasıl kullanılır ?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



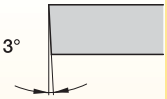
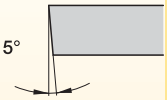
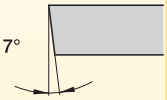
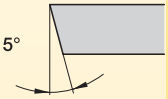
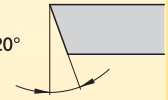
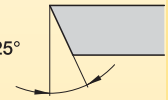
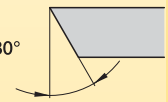
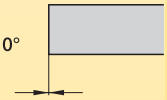
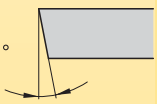
CNGNO0408T02020

C	N	G	N	O
Kesici uç şekli	Kesici uç boşluk açısı	Tolerans sınıfı	Kesici uç özellikleri	Ölçü

C — Kesici uç şekli

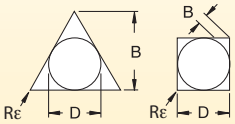
H	Altıgen 120°	
O	Sekizgen 135°	
P	Beşgen 108°	
R	Yuvarlak —	
S	Kare 90°	
T	Üçgen 60°	
C D E M V	Eşkenar dörtgen 80° 55° 75° 86° 35°	
W	Üç kenarlı 80° büyütülmüş köşe açılarla	
L	Dikdörtgen 90°	
A B N/K	Paralelkenar 85° 82° 55°	

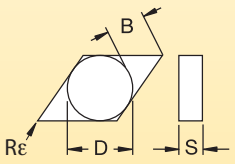
N — Kesici uç boşluk açısı

A	3°	
B	5°	
C	7°	
D	15°	
E	20°	
F	25°	
G	30°	
N	0°	
P	11°	
O	Diğer boşluk açıları için gerekli tanımlamalar.	

G — Tolerans sınıfı

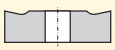
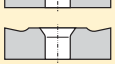
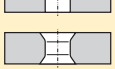
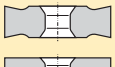
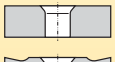
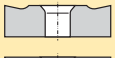
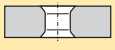
Toleranslar kenar hazırlama ve kaplama öncesi için uygulanır.





D = Kesici ucun yol aldığı daire teorik çapı
S = Kalınlık
B = Aşağıdaki şekillere bakın

N — Kesici uç özellikleri

N	
R	
F	
A	
M	
G	
W	
T	
Q	
U	
B	
H	
C	
J	
X V	Özel tasarım

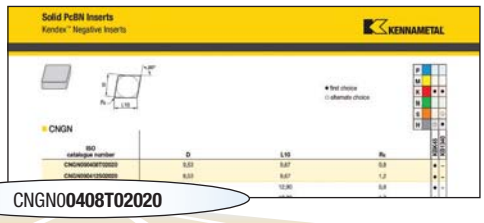
O — Ölçü

"D"	Metrik kesme kenarı uzunluğu "L10" için kod						
mm.	C	D	R	S	T	V	W
3,97	S4	04	03	03	06	—	—
4,76	04	05	04	04	08	08	S3
5,56	05	06	05	05	09	09	03
6,00	—	—	06	—	—	—	—
6,35	06	07	06	06	11	11	04
7,94	08	09	07	07	13	13	05
8,00	—	—	08	—	—	—	—
9,52	09	11	09	09	16	16	06
10,00	—	—	10	—	—	—	—
11,11	11	13	11	11	19	19	07
12,00	—	—	12	—	—	—	—
12,70	12	15	12	12	22	22	08
14,29	14	17	14	14	24	24	09
15,88	16	19	15	15	27	27	10
16,00	—	—	16	—	—	—	—
17,46	17	21	17	17	30	30	11
19,05	19	23	19	19	33	33	13
20,00	—	—	20	—	—	—	—
22,22	22	27	22	22	38	38	15
25,00	—	—	25	—	—	—	—
25,40	25	31	25	25	44	44	17
31,75	32	38	31	31	54	54	21
32,00	—	—	32	—	—	—	—

Tolerans sınıfı*	Tolerans "D" de	Tolerans "B" de	Tolerans "S" de
C	±0,025	±0,013	±0,025
H	±0,013	±0,013	±0,025
E	±0,025	±0,025	±0,025
G	±0,025	±0,025	±0,013
M	Sonraki sayfadaki tablolara bakınız.		±0,013
U	Sonraki sayfadaki tablolara bakınız.		±0,013

* Toleranslar kenar hazırlama ve kaplama öncesi için uygulanır.

Bu kullanımı kolay rehbere başvurarak ihtiyaçlarınızı karşılayacak doğru ürünü tanımlayabilirsiniz.



04	08		T	020	20		
Kalınlık "S"	Köşe radyüsü "Rε"	Kesici uç yönü *(isteğe bağlı)*	Kesme kenarı *(isteğe bağlı)*	T Zırh genişliği *(isteğe bağlı)*	T Zırh açısı *(isteğe bağlı)*	Uç tipi *(isteğe bağlı)*	Talaş kırıcı *(isteğe bağlı)*

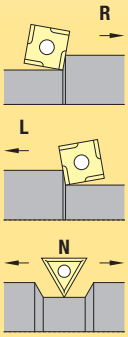
Simge mm.	Kalınlık mm.
—	0,79
T0	1,00
01	11,59
T1	1,98
02	2,38
03	3,18
T3	3,97
04	4,76
05	5,56
06	6,35
07	7,94
09	9,52
11	11,11
12	12,70

Simge mm.	Köşe radyüsü mm.
X0	.04
01	0,1
02	0,2
04	0,4
08	0,8
12	1,2
16	1,6
20	2,0
24	2,4
28	2,8
32	3,2
00	Yuvarlak kesici uç
M0	

R = Sağ yönlü

L = Sol yönlü

N = Nötr



F* Keskin

E Yuvarlatılmış

T* Pah kırılmış

S* Pah kırılmış ve yuvarlatılmış

K Çifte pah kırılmış

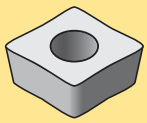
P Çifte pah kırılmış ve yuvarlatılmış

* Silici tipinde de mevcut.

Simge ISO	Ölçü mm
010	0,01
020	0,02

Simge	Ölçü
10	10°
15	15°
20	20°
25	25°
30	30°

Simge	Kullanım şekli
C	Dolu uç
M	Mini uç
MT	Çoklu uç
ST	Tekli uç



FW = Hassas son silici uç

MW = Orta silici uç

"D" mm.	± "D" de tolerans — M Toleransı sınıfı: Şekiller S, T, C, R ve W mm.	M Toleransı sınıfı: Şekil D mm.	M Toleransı sınıfı: Şekil V mm.	U Toleransı sınıfı: Şekiller S, T ve C mm.
3,97	0,05	–	–	–
4,76	0,05	–	–	0,08
5,56	0,05	0,05	0,05	0,08
6,35	0,05	0,05	0,05	0,08
7,94	0,05	0,05	0,05	0,08
9,52	0,05	0,05	0,05	0,08
11,11	0,08	0,08	0,08	0,13
12,70	0,08	0,08	0,08	0,13
14,29	0,08	0,08	0,08	0,13
15,88	0,10	0,10	0,10	0,18
17,46	0,10	0,10	0,10	0,18
19,05	0,10	0,10	0,10	0,18
22,22	0,13	–	–	0,25
25,40	0,13	–	–	0,25
31,75	0,15	–	–	0,25

"D" mm.	± "B" de tolerans — M Toleransı sınıfı: Şekiller S, T, C, R ve W mm.	M Toleransı sınıfı: Şekil D mm.	M Toleransı sınıfı: Şekil V mm.	U Toleransı sınıfı: Şekiller S, T ve C mm.
3,97	0,08	–	–	–
4,76	0,08	–	–	0,13
5,56	0,08	0,11	–	0,13
6,35	0,08	0,11	–	0,13
7,94	0,08	0,11	–	0,13
9,52	0,08	0,11	0,18	0,13
11,11	0,13	0,15	–	–
12,70	0,13	0,15	0,25	0,20
14,29	0,13	0,15	–	–
15,88	0,15	0,18	–	0,27
17,46	0,15	0,18	–	0,27
19,05	0,15	0,18	–	0,27
22,22	0,15	–	–	0,38
25,40	0,18	–	–	0,38
31,75	0,20	–	–	0,38

Dökme demir işleme için gelişmiş malzemeler

Birincil uygulama

Kennametal'in Beyond™ teknolojisinden yararlanılarak geliştirilen malzemeleri, uygulamaya bağlı olarak daha iyi aşınma direnci ve tokluk sağlamaktadır.

KYK seramik uçlar, dökme demir malzemelerde yüksek hızda, sürekli ve hafif darbeli tornalama uygulamaları için ilk tercih edilendir. Geliştirilmiş kırılma tokluğu, daha iyi aşınma direnci ve geniş bir uygulama aralığı sahip olduğu önemli avantajlardır. Dökme demirler için diğer seramik kalitelerimiz ile KYK10™ ve CVD kaplı KYK25™ kalitelerinin birleştirilmesi sayesinde Kennametal, işleme çevrim sürelerini kısaltan ve daha düşük üretim maliyetleri sağlayan tamamen yüksek performanslı seramik uçlardan oluşan ürün grubunu sunar.

Kennametal'in KYK10 gibi SiAlON kaliteleri, PcBN aralığına kadar yüksek kesme hızlarında ve değişik çeşitte dökme demir malzemenin işlenmesinde kullanılması uygundur. Dökme demir işleme için SiAlON malzeme biliminin, CVD kaplama teknolojisinin ve PcBN kalitelerinin bir araya getirilmesiyle Kennametal, çevrim süresini kısaltabilen ve daha düşük işleme maliyetleri sağlayabilen tümüyle yüksek performanslı bir ürün grubunu sunmaktadır.

Özellikler ve Avantajlar

Dolu PcBN kesici uçlar

KBK45™

- Yüksek aşınma direnci için tasarlanmıştır.
- Parça başı maliyetle üretimde güvenilir kalite.
- Kaba ve hassas son işleme için.
- Gelişmiş kullanım ve aşınma algılama özelliği sağlayan altın renkli.

KB1340™

- Yüksek aşınma direnci için tasarlanmıştır.
- Yüksek ısıl direnci.
- Kaba ve hassas son işleme için.

PcBN uçlu kesici uçlar

KB5630™

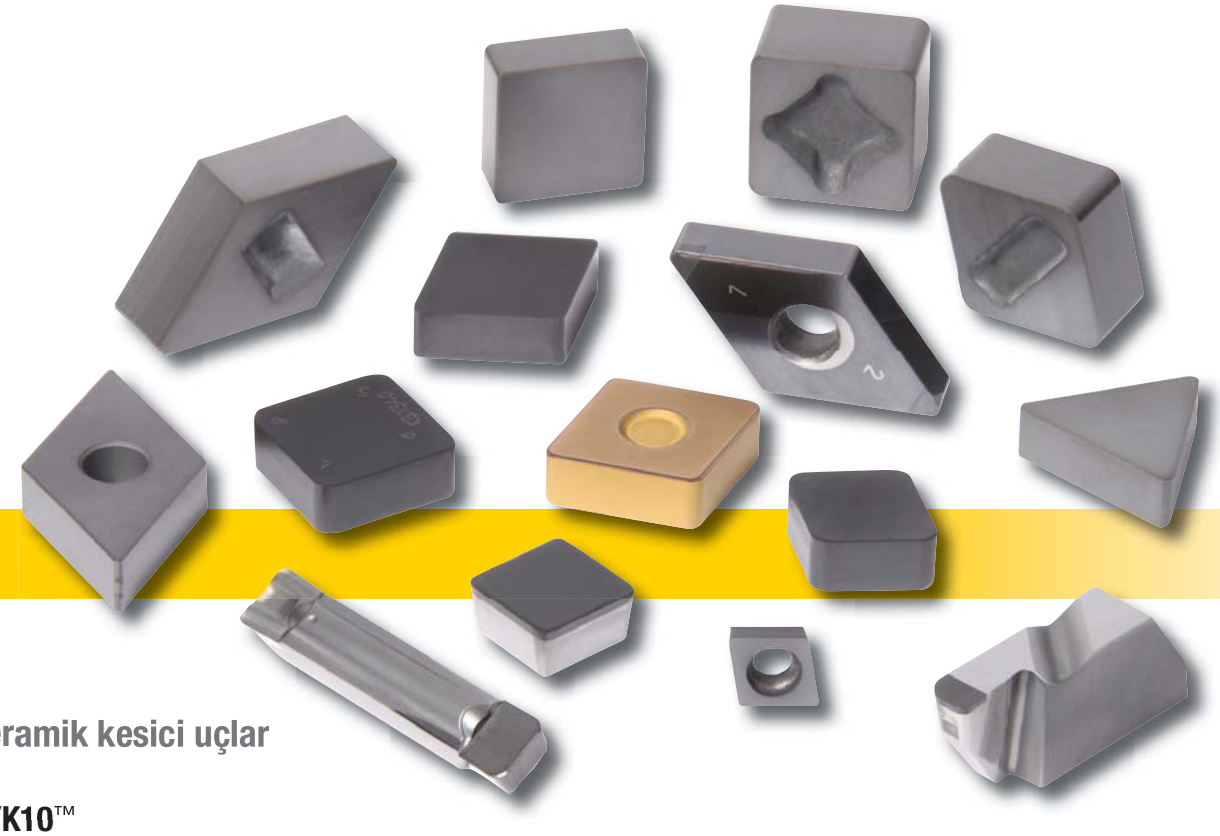
- Hafif hassas son işleme için tabakalı, haddeden geçmiş malzeme.
- Sürdürülebilir, mükemmel kenar dayanıklılığı.
- Değişiklik gösteren malzemenin bile işlenebilmesini için güvenilebilir takım ömrünü sağlayan PVD kaplama.

KB1345™

- Aşınma dirençli yüksek CBN uçlu kalite.
- Hassas son işleme uygulamaları için uygun çok hassas PcBN yapısı.

KBK45™ kalite döküm demirlerde en iyi parça başı maliyeti sağlar.

KB5630™ kalite Sert kabuklu (kokil döküm) ve sertleştirilmiş dökme demirler için yüksek aşınma direncine sahiptir.



Seramik kesici uçlar

KYK10™

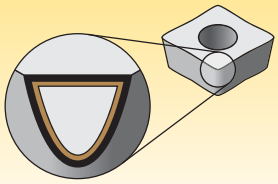
- Mevcut KY1310™'den %20 daha uzun takım ömrü ile geliştirilmiş aşınma direnci ve tokluk.
- Dökme demir malzemelerin sürekli tornalama ve hafif darbeli kesmelerde en idealdir.

KYK25™

- 12 mikron kalınlığındaki kaplama mükemmel aşınma direnci sağlamaktadır ve kaplama öncesi işlem sayesinde dökme demir uygulamalarda çok tutarlı takım ömrü ve performans elde edilmektedir.
- Rakiplerin CVD kaplı seramik kaliteleri ile karşılaştırıldığında %30'lara varan takım ömrü artışı.

KY3500™

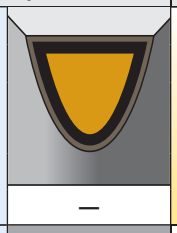
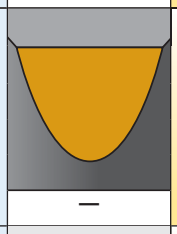
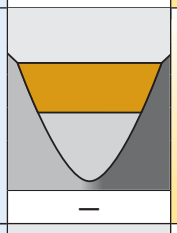
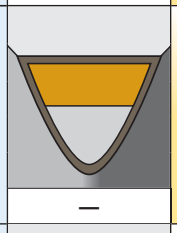
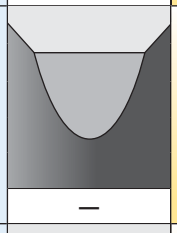
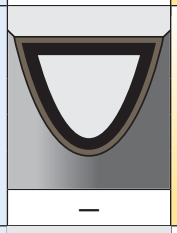
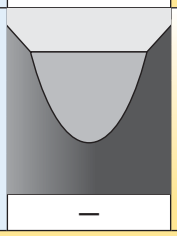
- 1000 m/dk değerine varan hızlarda ıslak veya kuru kesme uygulamalarında, kaba işlemeden hassas işlemeye, tüm işlemler için idealdir.
- 250–450 m/dk hızlarında, küresel grafitli veya dövülgen (yumuşak) dökme demirlerde (<70 KSI çekme dayanımı) ağır darbeli kesme uygulamalarında yüksek performans gösterir.



Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

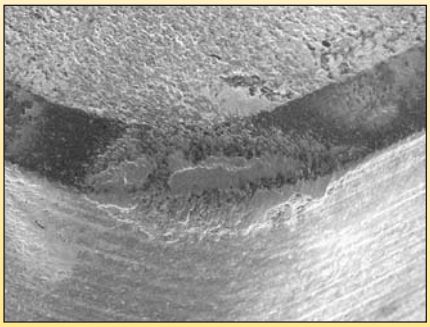
P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ← → Tokluk

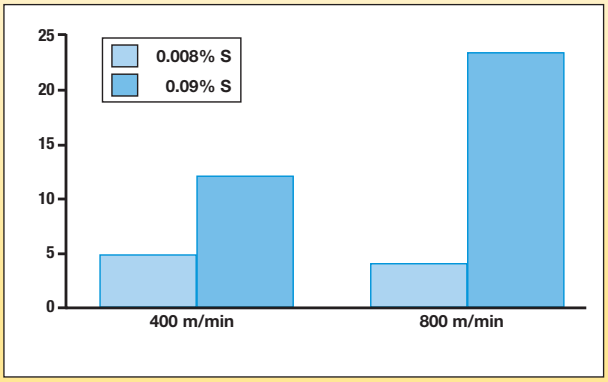
	Kaplama		Kalite tanim		05	10	15	20	25	30	35	40	45
Dolu PcBN Kaliteleri	KBK45		**Bileşim:** Çoklu kesme kenarlarına sahip PVD TiN kaplamalı yüksek CBN içerikli, dolu PcBN kesici uç. **Uygulama:** Gri dökme ve sert dökme demirlerin kaba işlemesinden hassas son işlenmesine kadar olan uygulamalarda kullanılır. Ayrıca sert dökme demir (kokil döküm) ve tümüyle perlitik dökme demirin hassas son işlenmesinde kullanılır. Dolu PcBN kesici uçlar daha iyi güvenilirlilik ve darbe direnci sağlarken uçlu PcBN kesici uçlara karşın daha derin kesme derinliği islevselliği sağlar. beyond	K			■	■	■	■	■	■	
	KB1340		**Bileşim:** Yüksek CBN (çok kristalli bornitrat) içerikli, çoklu kesme kenarlara sahip komple PcBN uç. **Uygulama:** Tam perlitik gri dökme demirinin, sert kabuklu (kokil) dökme demirlerin, yüksek krom alaşımlı çeliklerin ve sertleştirilmiş çeliklerin (>45 HRC) derin kesimlerinin kaba ve hassas işlemesinde uygulanmaktadır. Dolu PcBN kesici uç, sivriltilmiş PcBN kesici uçlara karşın daha fazla güvenilirlilik ve darbe dayanıklılığı sağlar ve aynı zamanda daha derin kesme derinliği yeteneği sunar.	K		■	■	■	■	■			
Uçlu PcBN Kaliteleri	KB1345		**Bileşim: Y**üksek CBN içerigine sahip PcBN ucu karbür kesici uca lehimlenmiştir. **Uygulama:** Tümüyle perlitik gri dökme demirin, sert dökme demirlerin (kokil döküm), yüksek krom alaşımlı çeliklerin, sinterlenmiş toz metallerin kaba işlenmesinden hassas son işlenmesinde ve sertleştirilmiş çeliklerde (>45 HRC) ağır kesmelerde kullanılır. Ayrıca sert dökme demir (kokil döküm) ve tümüyle perlitik dökme demirin hassas son işlenmesinde kullanılır. Uçlu PcBN kesici ucu, delik işleme uygulamaları için ideal olan pozitif talaş geometrileri de içeren geniş kesici uç tiplerinden oluşan ürün grubu olarak mevcuttur.	K				■	■	■	■	■	■
				H								■	
	KB5630		**Bileşim:** Ek asınma direnci için PVD AlTiN kaplamalı yüksek bir PcBN içerigi. **Uygulama:** Sertlştirilmiş çelikler (>45 HRC), sinterlenmiş valf yatağı malzemeleri gibi alaşımlı iş parçası malzemelerinin, toz metalurji takım çeliklerinin ve sert yüksek alaşımlı dökme demirlerin kaba işlenmesinden hassas son işlenmesine kadar olan uygulamalar için tasarlanmıştır. PVD kaplama krater aşınmasına karşı direnç sağlar ve talaş kaynamasına karşı direnç arttırır. Delik işleme uygulamaları için ideal olan vida bağlamalı geometriler de dahil olmak üzere çeşitli tipleri kapsayan geniş bir ürün grubu mevcuttur.	K	■	■	■						
				S		■	■						
				H					■	■	■		
Seramik kaliteleri	KYK10		**Bileşim:** Gelişmiş SiAlON seramik kalitesi. **Uygulama:** Maksimum aşınma direnci sağlar. Baştan sona ölçekli tornalama da dahil, gri dökme demiri yüksek hızda sürekli tornalamada kullanılır. Değişken dökme demir işlenebilirliğine dayalı kullanım. beyond	K	■	■	■						
	KYK25		**Bileşim:** Alüminyumoksit CVD kaplamalı saf silikon nitrür seramik. **Uygulama:** Tokluğun ve kesme kenarı aşınma direncinin mükemmel birleşimi. Gri dökme demir, dövülgen (düktil) veya küresel grafitli dökme demirlerin genel amaçlı işlenmesinde kullanılır. Değişken dökme demir işlenebilirliğine dayalı kullanım. beyond	K		■	■	■					
	KY3500		**Bileşim:** Saf silisyum nitrür kalitesi. **Uygulama:** Maksimum tokluk. Darbeli işleme dahil, gri dökme demirin kaba işlemesi için yüksek ilerleme oranında kullanılır.	K		■	■	■	■	■			

Dökme demir işleme

- Yaşlandırılmış döküm işlemeyi zorlaştırır ve takım ömrünü %80'e varan oranda kısaltır.
- Düşük sülfür içeriği tolerans aralığında bile %60'a varan oranda takım ömrünün kısalmasına neden olur.
- Yüksek titanyum içeriği takım ömrünü önemli ölçüde kısaltır.
- Artırılmış ferritik içeriği yüksek kimyasal aşınmaya neden olur ve takım ömrünü sürekli kısaltır.
- Vermiküler grafitli dökme demir yüksek kimyasal aşınma gösterir.



KB1340™'ın doğru uygulanması; Koruyucu tabaka oluşumu, takım ömrü 70 km işleme mesafesini aşmalıdır.

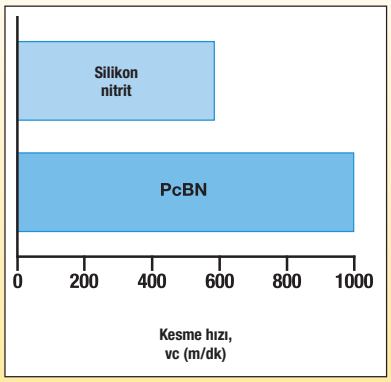


Öncelikli olarak kükürt içeriği farklı olan iki değişik gri dökme demirin işlenmesinde PcBN kaplamalı kesici takım ömürlerinin karşılaştırılması.

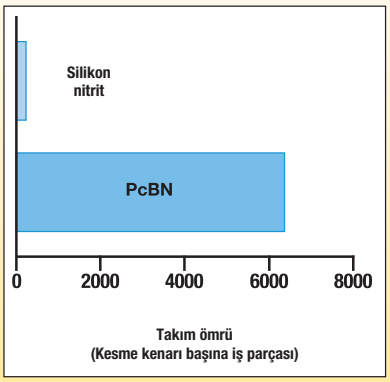
Gri dökme demir fren diski işleme • Seramik uç ile PcBN karşılaştırması



(a)



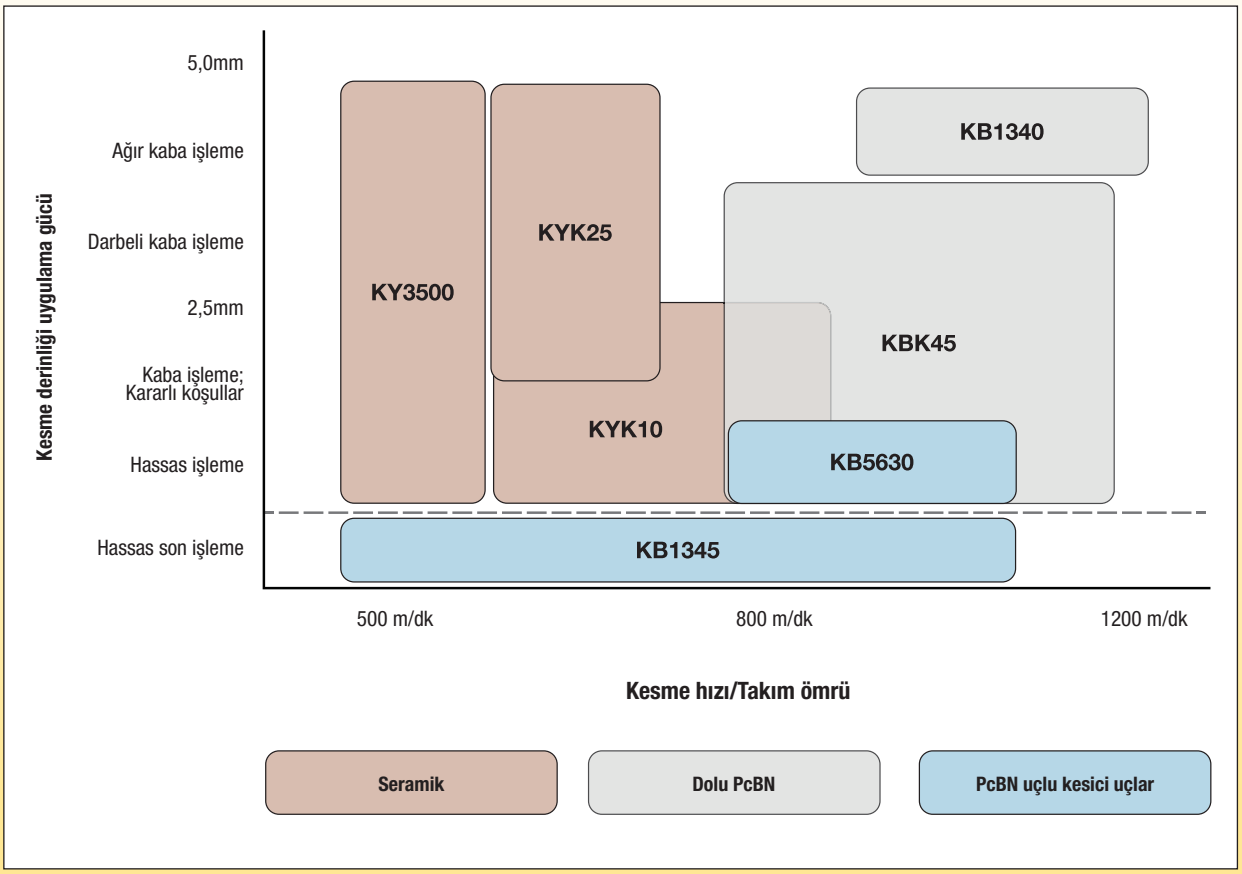
(b)



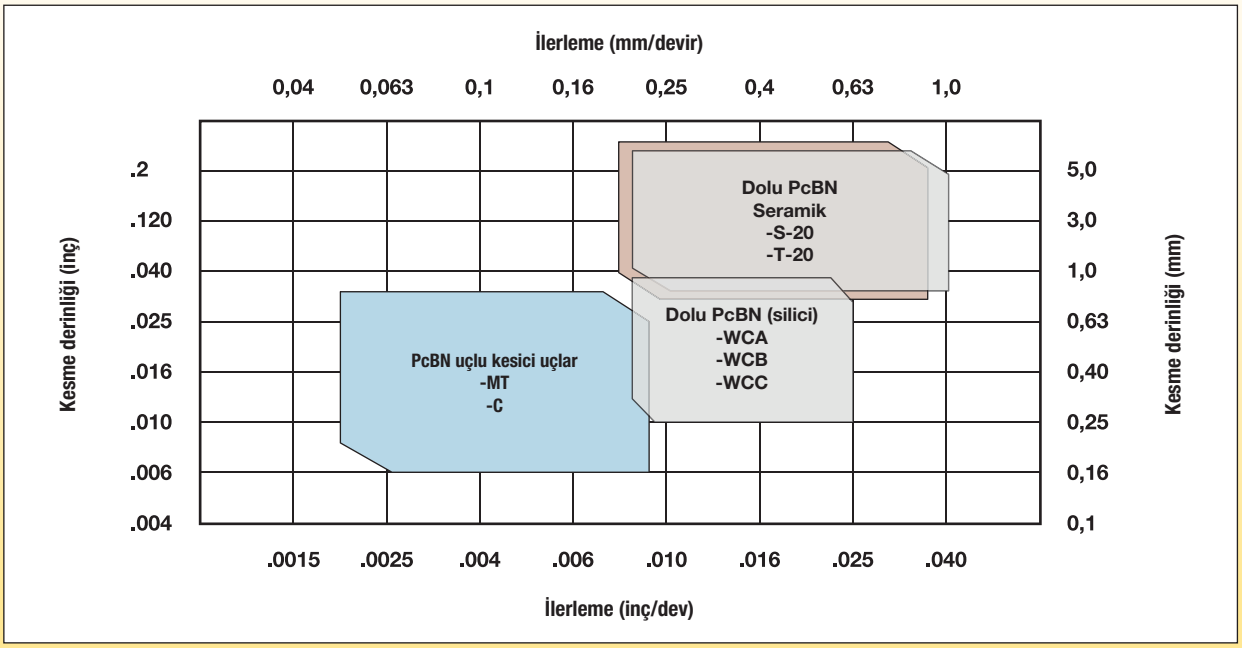
(c)

PcBN, gri dökme demir fren disklerini (a) işleme sırasında, silikon nitrit seramik ile karşılaştırıldığında, kesme hızı (b) ve takım ömründe (c) verimliliği artırmaktadır.

Kesme malzemesinin seçilmesi



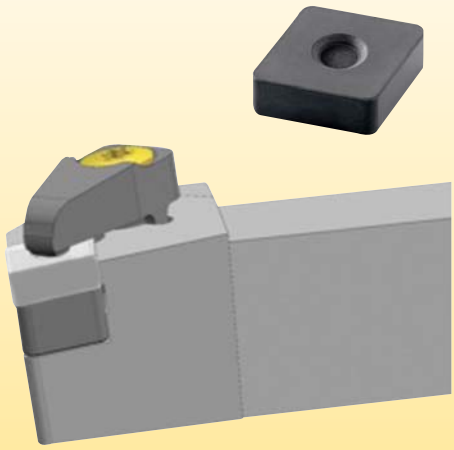
Kesme derinliği



Ek sürdürülebilir kararlılık için derin çeneli bağlama

Ürüne özgü uygulama

Sürekli maliyet baskısı gri dökme demir fren diski üreticilerini, maliyet düşürücü çözümler aramaya zorlamaktadır. CBN kesici uçlar yüksek verimlilik ve uzun takım ömrü sağlar. Kennametal dolu, yüksek içerikli KB1340™ kaliteyi geliştirdi. Bu da gri pik döküm bileşenleri fren diski veya volanlar gibi işlenmesinde üstün bir performans sağlamaktadır. Kesici uçlar, takım tutucuda güvenilir oturma sağlayan derin çeneli bağlama tasarımına sahiptirler. Kennametal takımlarının değiştirilmesini kolaylaştıran çeneler seramik kesici uçlara da uygundur.



Daha yüksek verimlilik ve kazanç sağlama

- Güvenilir ve rijit bir bağlama.
- Özel çene bağlamalı kesici uç yuvada artan sürdürülebilir dayanıklılık sağlar.
- Ağır işleme uygulamalarında kullanım için idealdir.
- Talaş erozyonuna karşı geliştirilmiş direnç için kaplanmış çeneler isteğe bağlı mevcuttur.
- Kısa çeneli tasarım, daha ekonomik 4,76mm (3/16") ölçülü kesici uçların kullanımına olanak sağlar.
- Yuvarlak çeneli tasarım boşluk sınırlamaları nedeniyle çene bağlama yönünün merkezden kaçık konumda olması gerektiğinden müşteriye özel takımlama ile kullanılır.

Bağlama tipi seçme tablosu

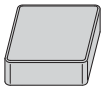
Kesici uç		Çene	
Katalog numarası	ISO Katalog numarası	Katalog numarası	Sipariş numarası
CNGX433S0415	CNGX120412S01015	551.718–100° Corner	3968904
CNGX433S0415FW	CNGX120412S01015FW	551.718–100° Corner	3968904
CNGX434S0820	CNGX120416S02020	551.718–100° Corner	3968904
CNGF432	CNGF120408	551.718–100° Corner	3968904
DNGX434S0820	DNGX150416S02020	551.720	4094234
SNGX434S0820	SNGX120416S02020	551.718	3968904
SNGX534S0820	SNGX150416S02020	551.718	3968904
VNGX333S0820	VNGX160412S02020	551.721	4094236
TNGX333EFW	TNGX160412EFW	551.733	4094235

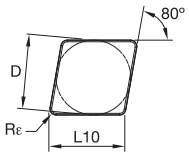
Dökme demir işleme için silici uçlar

WCA
Dökme demir işlemede silici uç için f = 0,25mm/dev değerine varan ilerleme oranı.

WCB
Dökme demir işlemede silici uç için f = 0,45mm/dev değerine varan ilerleme oranı.

WCC
Dökme demir işlemede silici uç için f = 0,65mm/dev değerine varan ilerleme oranı.



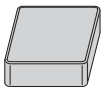


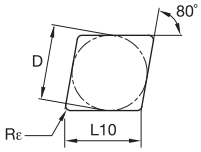
● İlk tercih
○ Alternatif tercih

P		
M		
K	●	●
N		
S		○
H	○	●

CNGN

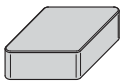
ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
CNGN090408T02020	9,53	9,67	0,8	●	–
CNGN090412S02020	9,53	9,67	1,2	●	–
CNGN120408T02020	12,70	12,90	0,8	●	–
CNGN120412S02020	12,70	12,90	1,2	●	–
CNGN120416S02020	12,70	12,90	1,6	●	–

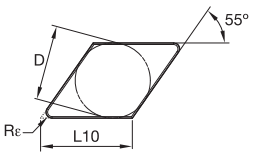




CNMN

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
CNMN120408S02020	12,70	12,90	0,8	–	●
CNMN120412S02020	12,70	12,90	1,2	–	●

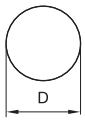




DNGN

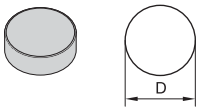
ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
DNGN120408S02020	10,00	12,21	0,8	●	–
DNGN120412S02020	10,00	12,21	1,2	●	–





RNGN

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
RNGN090400S02020	9,53	–	–	●	–
RNGN120400S02020	12,70	–	–	●	–



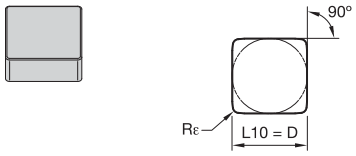
● İlk tercih
○ Alternatif tercih

	KBK45	KB1340
P		
M		
K	●	●
N		
S		○
H	○	●

RNMN

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
RNMN090300S02020	9,53	–	–	–	●
RNMN120300S02020	12,70	–	–	–	●
RNMN120400S02020	12,70	–	–	–	●

Kendex™ Pozitif kesici uçlar



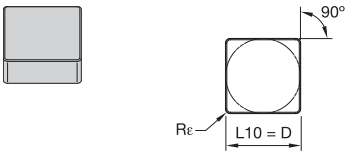
● İlk tercih
○ Alternatif tercih

	KBK45	KB1340
P		
M		
K	●	●
N		
S		○
H	○	●

SNGN

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
SNGN120408T02020	12,70	12,70	0,8	●	–
SNGN120412S02020	12,70	12,70	1,2	●	–
SNGN120416S02020	12,70	12,70	1,6	●	–

Kendex™ Pozitif silici uçlar

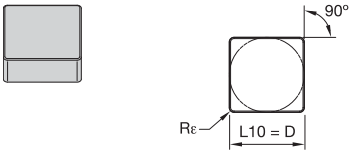


● İlk tercih
○ Alternatif tercih

	KBK45	KB1340
P		
M		
K	●	●
N		
S		○
H	○	●

SNGN-WCB

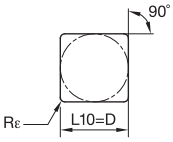
ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
SNGN090408S01015WCB	9,53	9,52	0,8	●	–



SNGN-WCC

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
SNGN090408S01015WCC	9,53	9,53	0,8	●	–





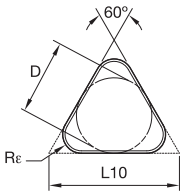
● İlk tercih
○ Alternatif tercih

P			
M			
K	●	●	
N			
S			○
H	○	●	

SNMN

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
SNMN090308S02020	9,53	9,53	0,8	–	●
SNMN090316S02020	9,53	9,53	1,6	–	●
SNMN120316S02020	12,70	12,70	1,6	–	●
SNMN120416T02020	12,70	12,70	1,6	–	●

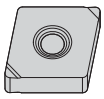


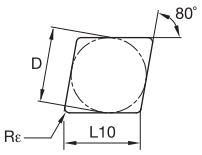


TNGN

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
TNGN110416S02020	6,35	11,00	1,6	●	–
TNGN160416S02020	9,53	16,50	1,6	●	–

Kendex™ Negatif çene yuvalı kesici uçlar





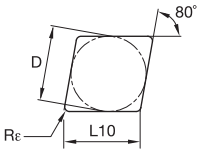
● İlk tercih
○ Alternatif tercih

P			
M			
K	●	●	
N			
S			○
H	○	●	

CNGF

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
CNGF120408	12,70	12,90	0,8	–	●



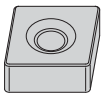


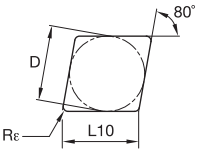
● İlk tercih
○ Alternatif tercih

P	●	●
M		
K	●	●
N		
S		○
H	○	●

CNGX

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
CNGX120408T02020	12,70	12,90	0,8	●	–
CNGX120412S01015	12,70	12,90	1,2	–	●
CNGX120412S02020	12,70	12,90	1,2	●	–
CNGX120416S02020	12,70	12,90	1,6	●	●

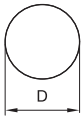




CNGX-FW

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
CNGX120412S01015FW	12,70	12,90	1,2	–	●

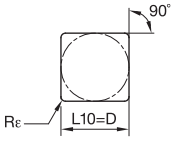




RNGX

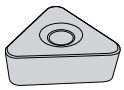
ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
RNGX120400S02020	12,70	–	–	●	–

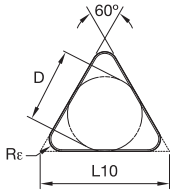




SNGX

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
SNGX120408T02020	12,70	12,70	0,8	●	–
SNGX120412S02020	12,70	12,70	1,2	●	–
SNGX120416S02020	12,70	12,70	1,6	●	●





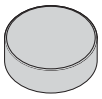
● İlk tercih
○ Alternatif tercih

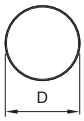
P		
M		
K	●	●
N		
S		○
H	○	●

TNGX

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
TNGX160416S02020	9,53	16,50	1,6	●	–

Kendex™ Pozitif kesici uçlar





● İlk tercih
○ Alternatif tercih

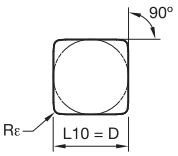
P		
M		
K	●	●
N		
S		○
H	○	●

RCGN

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
RCGN090400T01015	9,53	–	–	●	–

Kendex™ Negatif silici uçlar





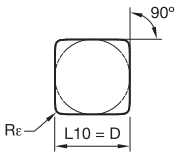
● İlk tercih
○ Alternatif tercih

P		
M		
K	●	●
N		
S		○
H	○	●

SCGN-WCB

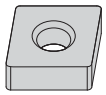
ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
SCGN090408S01015WCB	9,53	9,52	0,8	●	–

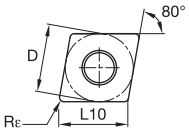




SCGN-WCC

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
SCGN090408S01015WCC	9,53	9,52	0,8	●	–





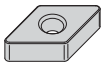
● İlk tercih
○ Alternatif tercih

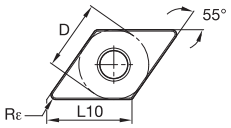
P		
M		
K	●	●
N		
S		○
H	○	●

CNMA

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
CNMA120408S02020	12,70	12,90	0,8	–	●
CNMA120412S02020	12,70	12,90	1,2	–	●

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.



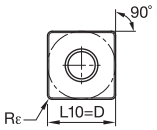


DNMA

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
DNMA110408S02020	9,53	11,63	0,8	–	●
DNMA110412S02020	9,53	11,63	1,2	–	●

NOT: Takım tutucular ve Delik işleme baraları için B85–B93 sayfa aralığına bakınız.





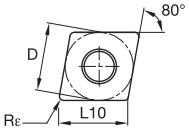
SNMA

ISO Katalog numarası	D	L10	Rε	KBK45	KB1340
SNMA120412S02020	12,70	12,70	1,2	–	●

NOT: Takım tutucular ve Delik işleme baraları için B105–B121 sayfa aralığına bakınız.

Gelişmiş malzemeler içeren kesici uçlar • Sert tornalama malzemeleriKenloc™ Kesici uçlar





● İlk tercih
○ Alternatif tercih

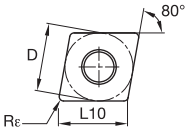
P		
M		
K	●	●
N		
S	○	●
H	●	●

CNGA-FWMT

ISO Katalog numarası	D	L10	Rε	KB1345	KB5630
CNGA120404S01025FWMT	12,70	12,90	0,4	–	●
CNGA120408S01025FWMT	12,70	12,90	0,8	–	●

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.





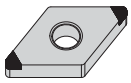
● İlk tercih
○ Alternatif tercih

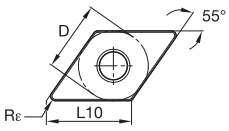
P		
M		
K	●	●
N		
S	○	●
H	●	●

CNGA-MT

ISO Katalog numarası	D	L10	Rε	KB1345	KB5630
CNGA120404S01025MT	12,70	12,90	0,4	–	●
CNGA120408S01020MT	12,70	12,90	0,8	●	–
CNGA120408S01025MT	12,70	12,90	0,8	–	●
CNGA120408S02020MT	12,70	12,90	0,8	●	–
CNGA120412S01020MT	12,70	12,90	1,2	–	●
CNGA120412S01025MT	12,70	12,90	1,2	–	●

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.





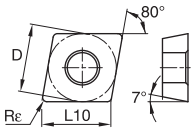
DNGA-MT

ISO Katalog numarası	D	L10	Rε	KB1345	KB5630
DNGA150404S01025MT	12,70	15,50	0,4	–	●
DNGA150408S01020MT	12,70	15,50	0,8	●	–
DNGA150408S01025MT	12,70	15,50	0,8	–	●

NOT: Takım tutucular ve Delik işleme baraları için B85–B93 sayfa aralığına bakınız.

Gelişmiş malzemeler içeren kesici uçlar • Sert tornalama malzemeleri





● İlk tercih
○ Alternatif tercih

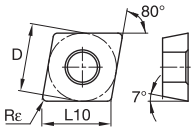
P		
M		
K	●	●
N		
S	○	●
H	●	●

CCGW-C

ISO Katalog numarası	D	L10	Rε	KB1345	KB5630
CCGW060202S01015C	6,35	6,45	0,2	–	●
CCGW060204S01015C	6,35	6,45	0,4	–	●
CCGW09T308EC	9,53	9,67	0,8	●	–

NOT: Takım tutucular ve Delik işleme baraları için B179–B183 sayfa aralığına bakınız.





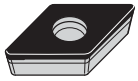
● İlk tercih
○ Alternatif tercih

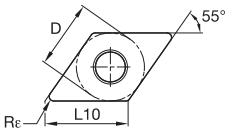
P		
M		
K	●	●
N		
S	○	●
H	●	●

CCGW-MT

ISO Katalog numarası	D	L10	Rε	KB1345	KB5630
CCGW09T304S01015MT	9,53	9,67	0,4	–	●
CCGW09T308S01015MT	9,53	9,67	0,8	–	●

NOT: Takım tutucular ve Delik işleme baraları için B179–B183 sayfa aralığına bakınız.



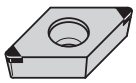


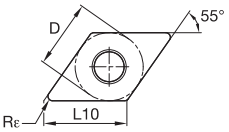
DCGW-C

ISO Katalog numarası	D	L10	Rε	KB1345	KB5630
DCGW070202S01015C	6,35	7,75	0,2	–	●
DCGW070204S01015C	6,35	7,75	0,4	–	●

NOT: Takım tutucular ve Delik işleme baraları için B209–B213 sayfa aralığına bakınız.

PcBN uçlu kesici uçlar • Vida bağlamalı kesici uçlar





● İlk tercih
○ Alternatif tercih

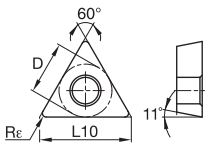
P		
M		
K	●	●
N		
S	○	●
H	●	●

DCGW-MT

ISO Katalog numarası	D	L10	Rε	KB1345	KB5630
DCGW11T304S01015MT	9,53	11,63	0,4	●	●
DCGW11T308S01015MT	9,53	11,63	0,8	●	●

NOT: Takım tutucular ve Delik işleme baraları için B209–B213 sayfa aralığına bakınız.

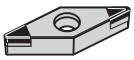


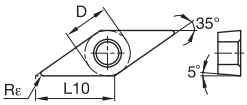


TPGW-C

ISO Katalog numarası	D	L10	Rε	KB1345	KB5630
TPGW110204EC	6,35	11,00	0,4	●	–
TPGW110208S01015C	6,35	11,00	0,8	–	●

NOT: Takım tutucular ve Delik işleme baraları için B257–B263 sayfa aralığına bakınız.





● İlk tercih
○ Alternatif tercih

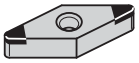
P				
M				
K		●	●	
N				
S		○	●	
H		●	●	

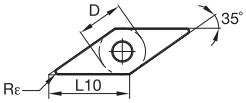
VBGW-MT

ISO Katalog numarası	D	L10	Rε	KB1345	KB5630
VBGW160404S01015MT	9,53	16,61	0,4	–	●
VBGW160408S01015MT	9,53	16,61	0,8	–	●

NOT: Takım tutucular ve Delik işleme baraları için B266–B269 sayfa aralığına bakınız.

Kenloc™ Kesici uçlar





● İlk tercih
○ Alternatif tercih

P				
M				
K		●	●	
N				
S		○	●	
H		●	●	

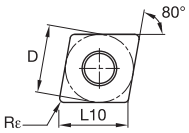
VNGA-MT

ISO Katalog numarası	D	L10	Rε	KB1345	KB5630
VNGA160404S01025MT	9,53	16,61	0,4	–	●
VNGA160408S01025MT	9,53	16,61	0,8	–	●

NOT: Takım tutucular ve Delik işleme baraları için B149–B153 sayfa aralığına bakınız.

ISO Seramik kesici uçlar • Kenloc™ Kesici uçlar





● İlk tercih
○ Alternatif tercih

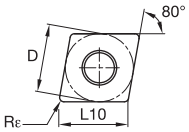
P				
M				
K		●	●	●
N				
S				
H				

CNGA

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
CNGA120408T02020	12,70	12,90	0,8	●	●	●
CNGA120412T02020	12,70	12,90	1,2	●	●	●
CNGA120416T02020	12,70	12,90	1,6	●	●	●
CNGA160612T02020	15,88	16,12	1,2	●	–	●
CNGA160616T02020	15,88	16,12	1,6	–	–	●
CNGA190612T02020	19,05	19,34	1,2	–	–	●
CNGA190616T02020	19,05	19,34	1,6	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.





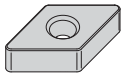
● İlk tercih
○ Alternatif tercih

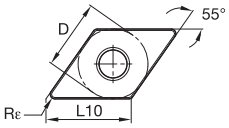
P			
M			
K	●	●	●
N			
S			
H			

CNGA-FW

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
CNGA120408T01020FW	12,70	12,90	0,8	●	–	●
CNGA120412T01020FW	12,70	12,90	1,2	●	●	●
CNGA120412T02020FW	12,70	12,90	1,2	–	●	–
CNGA120416T01020FW	12,70	12,90	1,6	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.



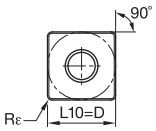


DNGA

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
DNGA150408T02020	12,70	15,50	0,8	–	–	●
DNGA150412T02020	12,70	15,50	1,2	–	–	●
DNGA150416T02020	12,70	15,50	1,6	●	●	●
DNGA150608T02020	12,70	15,50	0,8	–	–	●
DNGA150612T02020	12,70	15,50	1,2	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B85–B93 sayfa aralığına bakınız.

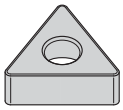


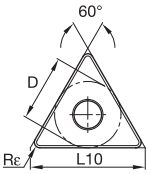


SNGA

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
SNGA120408T02020	12,70	12,70	0,8	●	●	●
SNGA120412T02020	12,70	12,70	1,2	●	–	●
SNGA120416T02020	12,70	12,70	1,6	–	–	●
SNGA150612T02020	15,88	15,88	1,2	–	–	●
SNGA150612T02020	15,88	15,88	1,2	●	–	–
SNGA150616T02020	15,88	15,88	1,6	–	–	●
SNGA190612T02020	19,05	19,05	1,2	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B105–B121 sayfa aralığına bakınız.





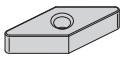
● İlk tercih
○ Alternatif tercih

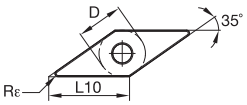
P			
M			
K	●	●	●
N			
S			
H			

TNGA

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
TNGA160408T02020	9,53	16,50	0,8	–	●	●
TNGA160412T02020	9,53	16,50	1,2	–	–	●
TNGA160416T02020	9,53	16,50	1,6	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B132–B142 sayfa aralığına bakınız.

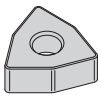


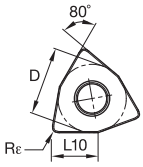


VNGA

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
VNGA160408T02020	9,53	16,61	0,8	–	–	●
VNGA220408T02020	12,70	22,14	0,8	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B149–B153 sayfa aralığına bakınız.

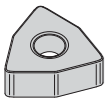


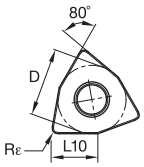


WNGA

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
WNGA080408T02020	12,70	8,69	0,8	●	–	●
WNGA080412T02020	12,70	8,69	1,2	●	–	●
WNGA080416T02020	12,70	8,69	1,6	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B161–B165 sayfa aralığına bakınız.



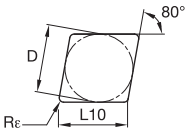


WNGA-FW

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
WNGA080408T01020FW	12,70	8,69	0,8	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B161–B165 sayfa aralığına bakınız.



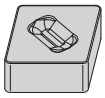


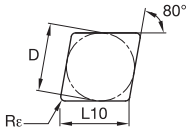
● İlk tercih
○ Alternatif tercih

P			
M			
K	●	●	●
N			
S			
H			

CNGN

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
CNGN120408T02020	12,70	12,90	0,8	–	–	●
CNGN120412T02020	12,70	12,90	1,2	–	–	●
CNGN120416T02020	12,70	12,90	1,6	–	–	●
CNGN120712T02020	12,70	12,90	1,2	–	–	●
CNGN120716T02020	12,70	12,90	1,6	–	●	–

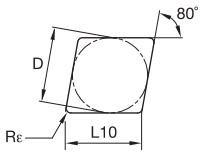




CNGX-FW

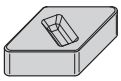
ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
CNGX120708T01020FW	12,70	12,90	0,8	–	–	●
CNGX120712T01020FW	12,70	12,90	1,2	–	–	●
CNGX120716T01020FW	12,70	12,90	1,6	–	–	●

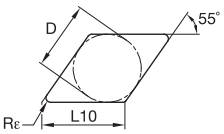




CNMX

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
CNMX120708T02020	12,70	12,90	0,8	–	–	●
CNMX120712T02020	12,70	12,90	1,2	–	–	●
CNMX120716T02020	12,70	12,90	1,6	–	–	●





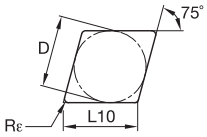
● İlk tercih
○ Alternatif tercih

P				
M				
K	●	●	●	
N				
S				
H				

DNGX

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
DNGX120708T02020	10,00	12,21	0,8	–	–	●
DNGX120712T02020	10,00	12,21	1,2	●	–	●
DNGX120716T02020	10,00	12,21	1,6	–	–	●
DNGX150708T02020	12,70	15,50	0,8	–	–	●
DNGX150712T02020	12,70	15,50	1,2	●	–	●
DNGX150716T02020	12,70	15,50	1,6	–	–	●

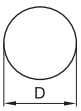




ENGX

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
ENGX130716T02020	12,70	13,15	1,6	–	–	●

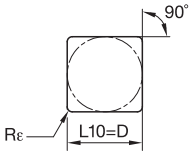




RNGN

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
RNGN120400T02020	12,70	–	–	–	●	●
RNGN120700T02020	12,70	–	–	–	–	●
RNGN190700T02020	19,05	–	–	–	–	●





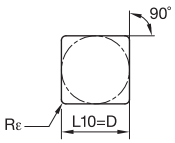
● İlk tercih
○ Alternatif tercih

P			
M			
K	●	●	●
N			
S			
H			

SNGN

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
SNGN090308T02020	9,53	9,53	0,8	–	–	●
SNGN120408T02020	12,70	12,70	0,8	●	–	●
SNGN120412T02020	12,70	12,70	1,2	●	–	●
SNGN120416T02020	12,70	12,70	1,6	–	–	●
SNGN120432T02020	12,70	12,70	3,2	–	–	●
SNGN120712T02020	12,70	12,70	1,2	●	–	–
SNGN120716T02020	12,70	12,70	1,6	–	–	●
SNGN190416T02020	19,05	19,05	1,6	–	–	●

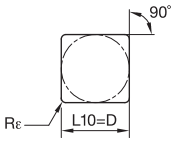




SNGX

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
SNGX120712T02020	12,70	12,70	1,2	●	●	●
SNGX120716T02020	12,70	12,70	1,6	●	●	●
SNGX150716T02020	15,88	15,88	1,6	–	–	●
SNGX150724T02020	15,88	15,88	2,4	–	–	●



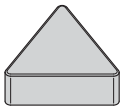


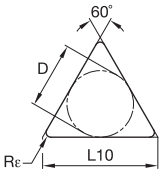
● İlk tercih
○ Alternatif tercih

P			
M			
K	●	●	●
N			
S			
H			

SNMX

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
SNMX120712T02020	12,70	12,70	1,2	–	–	●
SNMX120716T02020	12,70	12,70	1,6	–	–	●
SNMX150716T02020	15,88	15,88	1,6	–	–	●

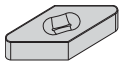


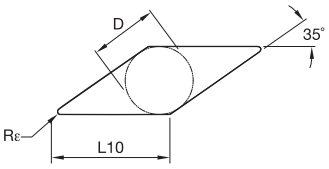


TNGN

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
TNGN160408T02020	9,53	16,50	0,8	–	–	●
TNGN220416T02020	12,70	22,00	1,6	–	–	●

Kendex™ Negatif çene yuvalı kesici uçlar





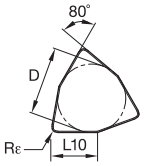
● İlk tercih
○ Alternatif tercih

P			
M			
K	●	●	●
N			
S			
H			

VNGX

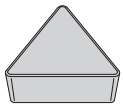
ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
VNGX160712T02020	9,52	16,61	1,2	–	–	●
VNGX160716T02020	9,53	16,61	1,6	–	–	●

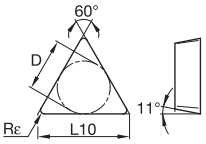




WNGX

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
WNGX080712T02020	12,70	8,69	1,2	–	●	●



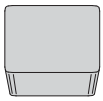


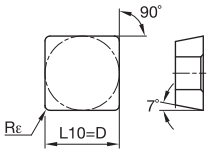
● İlk tercih
○ Alternatif tercih

P			
M			
K	●	●	●
N			
S			
H			

TPGN

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
TPGN160308T02020	9,53	16,50	0,8	–	–	●
TPGN160312T02020	9,53	16,50	1,2	–	●	●
TPGN220408T02020	12,70	22,00	0,8	–	–	●
TPGN220412T02020	12,70	22,00	1,2	–	–	●



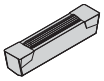


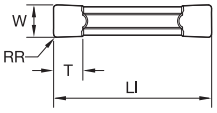
SCGN-FW

ISO Katalog numarası	D	L10	Rε	KYK25	KYK10	KY3500
SCGN090408EFW	9,53	9,53	0,8	–	–	●

Çene seçme tablosu

Sipariş numarası	Katalog numarası	Çene	
3960807	CNGX120412S01015	551.718–100° Corner	551.716–80° Corner
3960808	CNGX120412S01015FW	551.718–100° Corner	551.716–80° Corner
3960806	CNGX120416S02020	551.718–100° Corner	551.716–80° Corner
3960811	DNGX150416S02020	551.720	551.720
3960812	SNGX120416S02020	551.718	551.718
3960823	SNGX150416S02020	551.718	551.718
3876843	CNGF120408	551.718–100° Corner	551.716–80° Corner
3960825	TNGX160412EFW	551.733	551.733





● İlk tercih
○ Alternatif tercih

P		
M		
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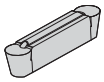
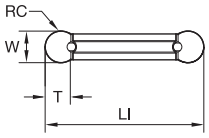
A4G-P-T

ISO Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KY3500
A4G0300M03P04T01025	3	3,00	0,4	20	3,4	●
A4G125I03P1T0425	3	3,18	0,4	20	3,4	●
A4G0400M04P04T01025	4	4,00	0,4	20	3,4	●
A4G0500M05P08T01025	5	5,00	0,8	25	4,2	●
A4G0600M06P08T01025	6	6,00	0,8	30	4,8	●
A4G250I06P2T0425	6	6,35	0,8	30	4,9	●
A4G0800M08P08T01025	8	8,00	0,8	30	6,4	●

NOT: A4 Tutucular, Delik işleme baraları ve Tornalama uçları için C104–C135 sayfa aralığına bakınız.





A4R-P-T

ISO Katalog numarası	Yuva ölçüsü	W	RC	LI	T	KY3500
A4R0300M03P00T01025	3	3,00	1,5	20	2,4	●
A4R0500M05P00T01025	5	5,00	2,5	25	4,1	●
A4R0600M06P00T01025	6	6,00	3,0	30	4,3	●
A4R250I06P00T0425	6	6,35	3,2	30	4,8	●
A4R0800M08P00T01025	8	8,00	4,0	30	6,4	●

NOT: A4 Tutucular, Delik işleme baraları ve Tornalama uçları için C104–C135 sayfa aralığına bakınız.

İnternette Kennametal

kennametal.com

EN SON ÜRÜN BİLGİSİNİ BULUNUZ.

Uygulama şekliniz ister tornalama, frezeleme ister delme ve delik işleme olsun, Kennametal marka yüksek performanslı takımlamaya ihtiyacınız olacaktır. Çok çeşitli uygulamalar için standart ve müşteri odaklı özel çözümler sunuyoruz.

En güncel kampanyalarımız ve kataloglarımızla ilgili bilgiye bakınız.



Kennametal in internetten sipariş verilebilen web sitesinin bütün işlevlerindan faydalanmak üzere Konnect' e kaydolun.

BİZE ULAŞIN

Müşterilerimiz bizim için önemlidir. Size sektördeki en iyi müşteri hizmetini sunmak istiyoruz. Eleştiri veya sorunlarınızı lütfen bize gönderin. Tüm sorulara 24 saat içinde yanıt vermeye çalışıyoruz.

KENDİ BÖLGENİZDE YEREL BİR YETKİLİ KENNAMETAL SATICI VE DAĞITIMCI BAYİSİ BULUNUZ.

Kennametal, küresel olarak dünya standartlarında ürün ve hizmetler sunmaktadır. Satıcı ve dağıtımcı bayilerimiz bizi bilirler ve daha da önemlisi sizi tanırlar. Kennametal' in küresel gücünden sektörünüzde, bölgenizde ve işinizde sizin için nasıl yarar sağlanacağını sektördeki herkesten daha iyi bilirler.

Sert tornalama

Yüksek ve düşük içerikli PcBN kesici uçlar

Mevcut küresel talaş kaldırma şartları yüksek üretkenliğe ve kesici takımlardan kaynaklanan maliyet tasarruflarına odaklanmanın önemini arttırdı. Bu gereksinimler hızla gelişen ve son derece yüksek sertlikte olan malzemelerde kullanılan kesici takımların uygulanmasına yol açmıştır. Adından da anlaşılacağı gibi bu malzemeler, bilinen geleneksel takım malzemelerine karşın sertlik açısından gözle görünür avantajara sahiptir. Son kullanıcı için bu avantaj, artan üretkenlik (yüksek kesme hızları, daha uzun takım ömrü, vb.), parça başına daha düşük takım maliyeti ve daha önceden bilinen geleneksel takımlamayla işlenemeyen malzemeleri işleyebilme anlamına gelmektedir.

Kennmetal, tüm ürün serilerimizde standart ve özellikli takımlama çözümlerimizde son derece sertliğe sahip malzemelerin işlenmesini geliştirmede ve uygulamada lider konumdadır. Son derece yüksek sertlikte takımlamaya yönelik yaklaşımımız müşteri gereksinimleri ve zorlamalarıyla başlar. Daha sonra müşterinin özellikli istek ve ihtiyaçlarına dayalı son derece yüksek sertliğe karşı çözümler geliştirilmiştir.



PcBN yaklaşık 1200º C' ye kadar termal olarak kararlı davranış gösterir ve kimyasal etkiye karşı yüksek dirence sahiptir. Bunun sonucu olarak, sert demir içerikli metalleri işlerken oluşabilecek aşırı derece yüksek ısılar sorunlara neden olmaz ve kendiliğinden oluşan ısı engelleme oluşumunu destekler. Bu, özellikle taşlamayla kıyaslandığında ek teknik ve üretkenlik faydaları sağlar. Bir çok durumda, performans tungsten karbürler ve seramik gibi bilinen geleneksel takım malzemeleriyle elde edilenlerden önemli ölçüde daha iyidir.

Ancak, PcBN için ostenitik çeliklerin ve ferritik dökme demirlerin işlenmesinde PcBN kenar aşınmasına neden olabilecek sınırlamalar vardır.

PcBN Kesici uçlar

KBH10™

Yüksek yoğunlukta üretim

- Sürekli tornalama işlemleri için yeni patentli düşük PcBN içerikli kalite.
- Düşük karbür kapsayan içeriğe sahip sertleştirilmiş çeliklerin işlenmesinde mükemmel performans.
- Sivritilmiş uçlu ve dolu PcBN kesici uçlar olarak mevcuttur.

KBH20™

Yüksek üretkenlik ve kazanç sağlama



- Yeni geliştirilmiş altyapı, çok geniş çeşitlilikte zorlu uygulamalarda kullanıma olanak sağlar.
- Nano kompozit kaplama hız yeteneğini ve takım ömrünü geliştirir. Daha uzun takım ömrü için iyileştirilmiş kesme kenarı hazırlama teknolojisi, güvenilir hassiyette performans, daha iyi hassas son işlemeli yüzey kalitesi ve daha dar iş parçası toleransları sağlar.
- Geniş kapsamlı ürün programı.
- Pozitif ve negatif geometri olarak CB1 talaş kırıcı, talaş kırma ve talaş kontrolü sorunlarını çözmektedir.

KB5630™



- Kritik kesme koşullarında ve ağır darbeli kesmelerde en iyi şekilde uygulanır.
- Mükemmel aşınma direnci.
- PVD kaplama, krater aşınmasını azaltmak ve takım ömrünü uzatmak için termal bir engel oluşturur.
- Sertleştirilmiş çelikler ve toz metallerin işlenmesinde olağanüstü verimlilik.
- Uçlu ve tam alınlı PcBN kesici uçlar olarak mevcut.

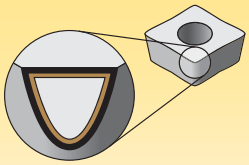
Seramik kesici uçlar

KY1615

düşük yoğunlukta üretimler ve daha yüksek is süreci çesitliligi



- Karışık (siyah) seramik.
- İyi tokluk özelliği ile birleşik mükemmel aşınma direnci.
- Sertleştirilmiş çeliklerin ve demir esaslı malzemelerin hassas son ve yarı hassas işlenmesinde mükemmel performans.



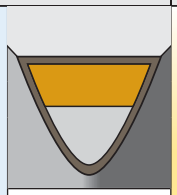
Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ⟷ Tokluk

PcBN — Çok kristalli kübik bor nitrür kaliteleri

KBH20



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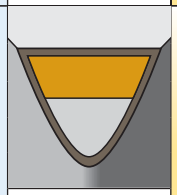
Bileşim: İlave aşınma direnci için PVD Tin/AlTiN kaplamalı düşük bir PcBN kalite içeriği.
Uygulama: KBH20, sürekli hafif darbeli kesme uygulamaları için ideal PcBN sert tornalama kalitesidir. Yapısı gereği, farklı kesme kenarı ön işlemlerinin yanı sıra tekrarlanabilir iş parçası toleransları, mükemmel hassas son işlemeli yüzey kalitesi ve yüzey bütünlüğü sağlar. Dişliler, şaftlar gibi gövdesi sertleştirilmiş çelik bileşenlerini ve diğer yürüyüş aksamları bileşenlerini kapsayan özellikli uygulamalar.

	05	10	15	20	25	30	35	40	45
H			■	■	■				

KBH10

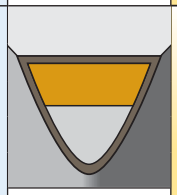


—

Bileşim: Patentli bir bağlayıcı yapısallığa sahip düşük içerikli bir PcBN kalite.
Uygulama: Sertleştirilmiş çeliklerin hassas işlenmesi için tasarlanmıştır (> 45 HRC). Rulman çelikleri, sıcak ve soğuk işlenmiş takım çelikleri, yüksek hızlı çelikler, kalıp çelikleri, yüzeyden sertleştirilmiş çelikler, karbonlu ve nitrürlenmiş demirler ve bazı sert kaplamalarda etkin bir şekilde uygulanabilir. Kesme kenarı hazırlıkları, kesici uç tipleri ve silici geometrilerini kapsayan geniş kulllanım alanına sahip bir çoklu uç şeklinde mevcuttur.

	05	10	15	20	25	30	35	40	45
H	■	■	■						

KB5630



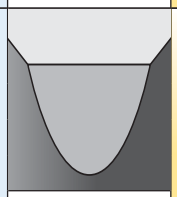
—

Bileşim: Ek asınma direnci için PVD AlTiN kaplamalı yüksek bir PcBN içerigi.
Uygulama: Sertlştirilmiş çelikler (>45 HRC), sinterlenmiş valf yatağı malzemeleri gibi alaşımlı iş parçası malzemelerinin,toz metalurji takım çeliklerinin ve sert yüksek alaşımlı dökme demirlerin kaba işlenmesinden hassas son işlenmesine kadar olan uygulamalar için tasarlanmıştır. PVD kaplama krater aşınmasına karşı direnç sağlar ve talaş kaynamasına karşı direnç arttırır. Delik işleme uygulamaları için ideal olan vida bağlamalı geometriler de dahil olmak üzere çeşitli tipleri kapsayan geniş bir ürün grubu mevcuttur.

	05	10	15	20	25	30	35	40	45
K	■	■	■						
S		■	■						
H					■	■	■		

Seramik kaliteleri

KY1615

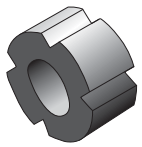
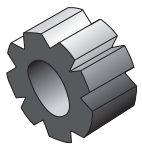


—

Bileşim: Gelişmiş bir alüminyumoksit/TiC siyah seramik kalitesi.
Uygulama: Tokluk ve şınma direncinin ideal birlesimi; alasım çeliklerini, takım çeliklerini ve paslanmaz çelikleri 60 HRC (653 HB) değerinde işlemede kullanılır. Ayrıca, hassas son tornalamada ve dökme demirlerde delik işleme için uygulanır.

	05	10	15	20	25	30	35	40	45
H	■	■							

Takım deneme bilgisi

	Kalite	Keskin	Hafif kesme kenarı Metrik İnç	Standart kesme kenarı Metrik İnç	Güçlü kesme kenarı Metrik İnç
	KBH10*	E	10 15 04 15	12 25 05 25	Müşteriye özel
	KBH20*	Müşteriye özel	10 15 04 15	12 25 05 25	17 35 07 35
	KB5630***	Müşteriye özel	Müşteriye özel	10 25 04 25	17 35 07 35

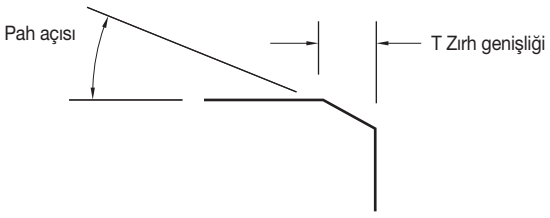
- ✗ Krater aşınması
- ✓ Talaş kaynaması
- ✓ Kopmalar
- ✓ Rijitlik

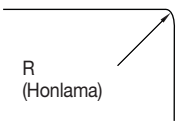
- ✓ Krater aşınması
- ✗ Talaş kaynaması
- ✓ Kopmalar
- ✗ Rijitlik

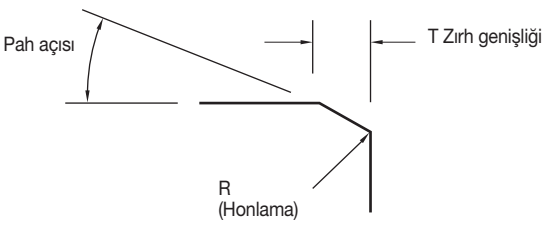
NOT: 1225 ölçüde (inç olarak 0525) KBH20™ Kesici uçlar ilk deneme için seçilen kesici uçlardır.
Hassas ayarlama için aynı kalitede kalın, ancak gerek hafif kesmelerde daha keskin kesme kenarları, gerekse darbelerin ve çeşitliliğin üstesinden gelmek üzere daha güçlü kesme kenarları kullanılır.
KBH20 yetersiz geldiğinde, kalite ya daha yüksek aşınma direncine ya da kırılma direncine sahip kalite ile değiştirilir.
* Çok düşük tokluk
** Orta tokluk
*** Çok yüksek tokluk

E = Honlama
T = Açılı T zırhı
S = Açılı ve honlamalı T zırhı

Örnek: S01015, 15 derecede honlamalı, 100 µm (mikron) bir T zırhıdır.







1. Adım • Kesici uç geometrisi seçimi

Negatif silici uçlar



-S..MWMT
(çok uçlu)

Orta silici uç



..MS (çok uçlu)

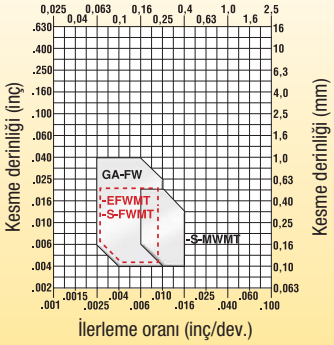
Hassas son silici uç



-S..FWMT
(çok uçlu)

Hassas son silici uç

İlerleme oranı (mm/dev.)



Pozitif silici uçlar

İlerleme oranı (mm/dev.)



-EFWC
(tam yüzey)

-EFWM
(tek uçlu)

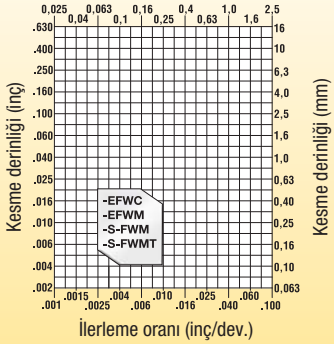
Hassas son silici uç



-S..FWM
(tek uçlu)

-S..FWMT
(çok uçlu)

İnce Hassas Silici Uç



2. Adım • Kalite seçimi

Kesme şartı	Negatif kesici uç geometrisi -S..FWMT	Negatif kesici uç geometrisi -EFWMT	Pozitif kesici uç geometrisi -S..FWMT	Pozitif kesici uç geometrisi -S..FWM -S..FWMT	Pozitif kesici uç geometrisi -EFWM -EFWC
Aşırı derecede ağır darbeli kesme	KB5630	KB1625	–	–	–
Hafif bir şekilde darbeli kesme	KB5630/KBH20	KB5625	KBH20	KBH20	KBH20
Değişken kesme derinliği, yüzey (döküm) kabuğu veya dövme kabuk	KBH20	KB1610/KBH10	KBH20	KBH20	KBH20
Düz hassas kesme, ön tornalanmış yüzey	KBH10	KBH10	KBH10	KBH10	KBH10

1. Adım • Kesici uç geometrisi seçimi

Negatif silici uçlar



-S-20

Orta işleme



-S..ST
(tek uçlu)
-S..MT
(çok uçlu)

Hassas son işleme



-T..10

-T.20

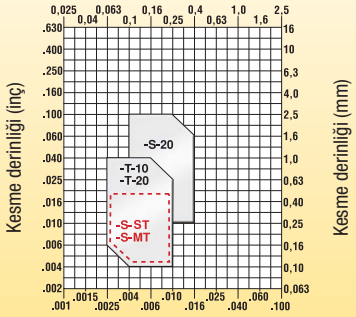


-T..10

-T.20

Son derece hassas son işleme

İlerleme oranı (mm/dev.)



Pozitif silici uçlar



-T-15
Orta Metal İşleme



-EC (tam alın)
-EM (tek uçlu)
-EMT (çok uçlu)

Hassas son işleme



-T-20



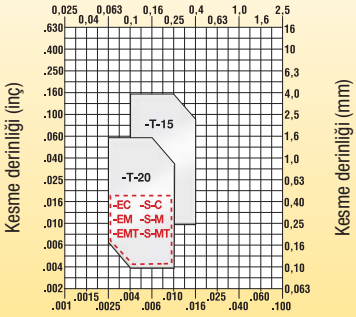
-S....C
(tam alın)

-S....M
(tek uçlu)

-S....MT
(çok uçlu)

Son derece hassas son işleme

İlerleme oranı (mm/dev.)



2. Adım • Kalite seçimi

Kesme şartı	Negatif kesici uç geometrisi -T.10 -T.20	Pozitif kesici uç geometrisi -T-15
Aşırı derecede ağır darbeli kesme	–	–
Hafif bir şekilde darbeli kesme	–	KY1615
Değişken kesme derinliği, yüzey (döküm) kabuğu veya dövme kabuk	KY1615	KY1615
Düz hassas kesme, ön tornalanmış yüzey	KY1615	KY1615

1. Adım • Kesme hızını seçme

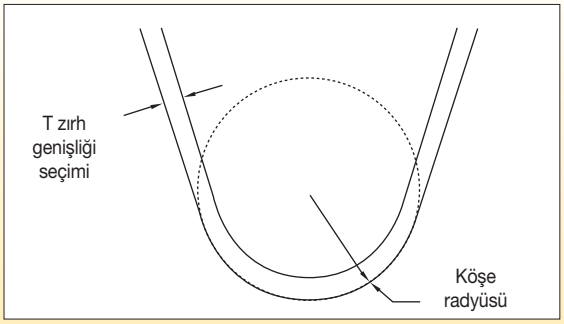
Hız — m/dk.(Yüzey ilerleme/dk.) — Başlangıç koşulları ◁▷

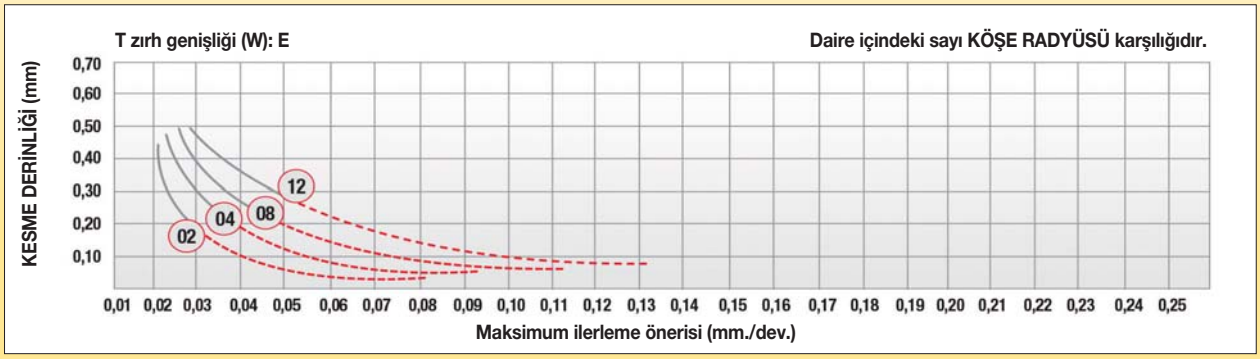
Malzeme grubu	Kalite	15 (50)	45 (150)	75 (250)	110 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	m/dk.	Yüzey ilerleme/dk.
H1	KBH20					◁▷					155	510
	KB5610					◁▷					150	490
	KB5630				◁▷						105	345
	KY1615				◁▷						100	325

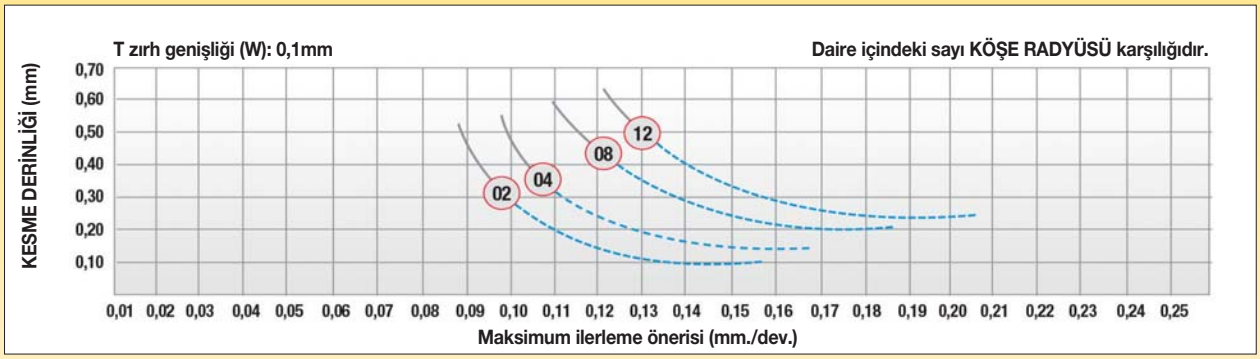
T zırh genişliği seçimi

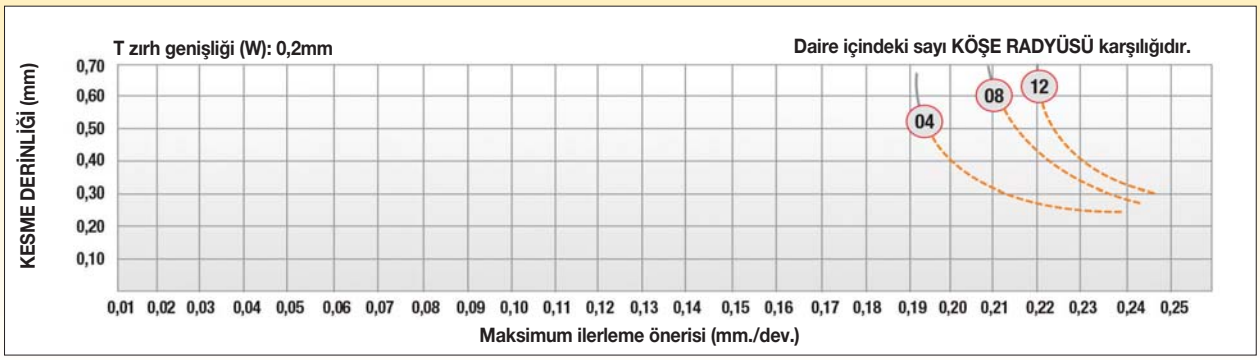
Örnek 1: Eger ilerleme, kesme derinligi ve takım köşe radyüsü sabit ise, hangi T zırh genisliginin kullanılması gerektigini görmek için bu değerler kullanılır.

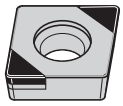
Örnek 2: Özel bir T zırh genisligi veya sadece honlama kenarı kullanılmak isteniyorsa, farklı köşe radyüslerine yönelik maksimum ilerleme ve kesme derinliklerinin oldugu asagıdaki tablo kullanılır.

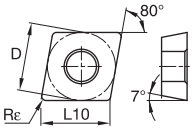












● İlk tercih
○ Alternatif tercih

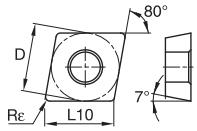
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

CCGM

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CCGM09T304S01325MTCB1	9,53	9,67	0,4	–	●	–	–
CCGM09T308S01325MTCB1	9,53	9,67	0,8	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B179–B183 sayfa aralığına bakınız.

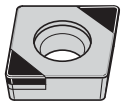


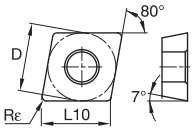


CCGW-C

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CCGW060202S01015C	6,35	6,45	0,2	–	–	●	–
CCGW060204S01015C	6,35	6,45	0,4	–	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B179–B183 sayfa aralığına bakınız.

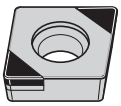


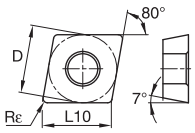


CCGW-FWMT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CCGW09T304S01015FWMT	9,53	9,67	0,4	–	●	–	–
CCGW09T308S01015FWMT	9,53	9,67	0,8	●	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B179–B183 sayfa aralığına bakınız.

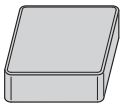


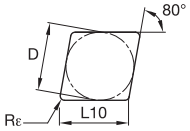


CCGW-MT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CCGW060202S01015MT	6,35	6,45	0,2	●	–	–	–
CCGW060202S01225MT	6,35	6,45	0,2	–	●	–	–
CCGW060204S01015MT	6,35	6,45	0,4	●	–	–	–
CCGW060204S01225MT	6,35	6,45	0,4	–	●	–	–
CCGW09T302S01015MT	9,53	9,67	0,2	●	–	–	–
CCGW09T302S01225MT	9,53	9,67	0,2	–	●	–	–
CCGW09T304S01015MT	9,53	9,67	0,4	●	●	●	–
CCGW09T304S01225MT	9,53	9,67	0,4	●	●	–	–
CCGW09T308S01015MT	9,53	9,67	0,8	●	●	●	–
CCGW09T308S01225MT	9,53	9,67	0,8	●	●	–	–
CCGW120408S01015MT	12,70	12,90	0,8	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B179–B183 sayfa aralığına bakınız.



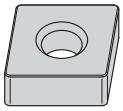


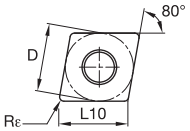
● İlk tercih
○ Alternatif tercih

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

CNGN

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CNGN120404T02020	12,70	12,90	0,4	–	–	–	●
CNGN120408T02020	12,70	12,90	0,8	–	–	–	●
CNGN120708T02020	12,70	12,90	0,8	–	–	–	●
CNGN120412T02020	12,70	12,90	1,2	–	–	–	●
CNGN120712T02020	12,70	12,90	1,2	–	–	–	●
CNGN120716T02020	12,70	12,90	1,6	–	–	–	●
CNGN160716T02020	15,88	16,12	1,6	–	–	–	●
CNGN160716T05015	15,88	16,12	1,6	–	–	–	●

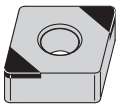


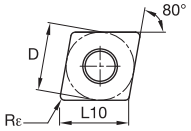


CNGA

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CNGA120404T02020	12,70	12,90	0,4	–	–	–	●
CNGA120408T00520	12,70	12,90	0,8	–	–	–	●
CNGA120408T02020	12,70	12,90	0,8	–	–	–	●
CNGA120412T02020	12,70	12,90	1,2	–	–	–	●
CNGA120416T02020	12,70	12,90	1,6	–	–	–	●
CNGA160612T02020	15,88	16,12	1,2	–	–	–	●
CNGA190612T02020	19,05	19,34	1,2	–	–	–	●
CNGA190616T02020	19,05	19,34	1,6	–	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.





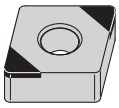
● İlk tercih
○ Alternatif tercih

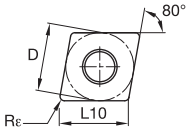
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

CNGA-FWMT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CNGA120404S01015FWMT	12,70	12,90	0,4	●	●	–	–
CNGA120404S01025FWMT	12,70	12,90	0,4	–	–	●	–
CNGA120408S01015FWMT	12,70	12,90	0,8	●	●	–	–
CNGA120408S01025FWMT	12,70	12,90	0,8	–	–	●	–
CNGA120408S01225FWMT	12,70	12,90	0,8	●	–	–	–
CNGA120412S01015FWMT	12,70	12,90	1,2	–	●	–	–
CNGA120412S01225FWMT	12,70	12,90	1,2	●	–	–	–

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.

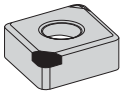


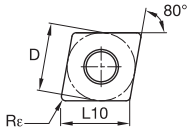


CNGA-MT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CNGA120404S01015MT	12,70	12,90	0,4	●	●	–	–
CNGA120404S01025MT	12,70	12,90	0,4	–	–	●	–
CNGA120404S01225MT	12,70	12,90	0,4	–	●	–	–
CNGA120404S01735MT	12,70	12,90	0,4	–	●	–	–
CNGA120408S01015MT	12,70	12,90	0,8	●	●	–	–
CNGA120408S01025MT	12,70	12,90	0,8	–	–	●	–
CNGA120408S01225MT	12,70	12,90	0,8	●	●	–	–
CNGA120408S01735MT	12,70	12,90	0,8	●	●	–	–
CNGA120412S01015MT	12,70	12,90	1,2	●	●	–	–
CNGA120412S01020MT	12,70	12,90	1,2	–	–	●	–
CNGA120412S01025MT	12,70	12,90	1,2	–	–	●	–
CNGA120412S01225MT	12,70	12,90	1,2	●	●	–	–
CNGA120412S01735MT	12,70	12,90	1,2	●	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.

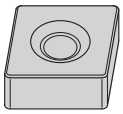


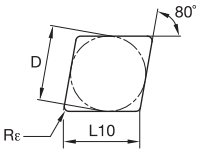


CNGM-CB1

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CNGM120404S01325MTCB1	12,70	12,90	0,4	–	●	–	–
CNGM120408S01325MTCB1	12,70	12,90	0,8	–	●	–	–
CNGM120412S01325MTCB1	12,70	12,90	1,2	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.





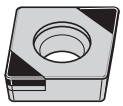
● İlk tercih
○ Alternatif tercih

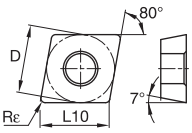
P				●
M				
K				●
N				
S				●
H	●	●	●	●

CNGX

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CNGX120708T02020	12,70	12,90	0,8	–	–	–	●
CNGX120712T02020	12,70	12,90	1,2	–	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.

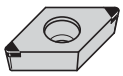


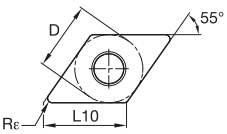


CPGW-MT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
CPGW09T304S01015MT	9,53	9,67	0,4	–	–	●	–
CPGW09T308S01015MT	9,53	9,67	0,8	–	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B192–B205 sayfa aralığına bakınız.

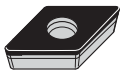


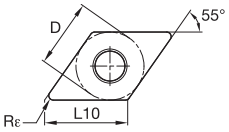


DCGM

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DCGM11T304S01325MTCB1	9,53	11,63	0,4	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B209–B213 sayfa aralığına bakınız.





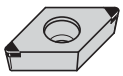
● İlk tercih
○ Alternatif tercih

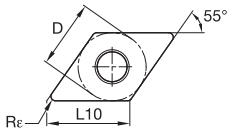
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

DCGW-C

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DCGW070202S01015C	6,35	7,75	0,2	–	–	●	–
DCGW070204S01015C	6,35	7,75	0,4	–	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B209–B213 sayfa aralığına bakınız.

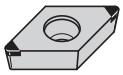


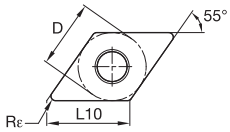


DCGW-FWMT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DCGW11T308S01015FWMT	9,53	11,63	0,4	●	●	–	–
DCGW11T308S01225FWMT	9,53	11,63	0,4	●	–	–	–

NOT: Takım tutucular ve Delik işleme baraları için B209–B213 sayfa aralığına bakınız.

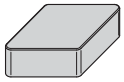


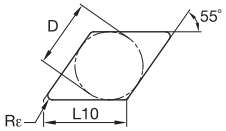


DCGW-MT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DCGW070202S01225MT	6,35	7,75	0,2	–	●	–	–
DCGW070204S01015MT	6,35	7,75	0,4	–	●	–	–
DCGW070204S01225MT	6,35	7,75	0,4	–	●	–	–
DCGW70202S01015MT	6,35	7,75	0,4	●	–	–	–
DCGW70204S01015MT	6,35	7,75	0,4	●	–	–	–
DCGW70204S01225MT	6,35	7,75	0,4	●	–	–	–
DCGW11T302S01015MT	9,53	11,63	0,2	●	–	–	–
DCGW11T302S01225MT	9,53	11,63	0,2	–	●	–	–
DCGW11T304S01225MT	9,53	11,63	0,4	●	●	–	–
DCGW11T304S01015MT	9,53	11,63	0,4	●	●	●	–
DCGW11T308S01015MT	9,53	11,63	0,8	●	●	●	–
DCGW11T308S01225MT	9,53	11,63	0,8	●	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B209–B213 sayfa aralığına bakınız.



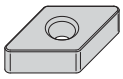


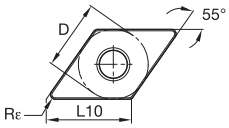
● İlk tercih
○ Alternatif tercih

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

DNGN/DNG

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DNGN150704T02020	12,70	15,50	0,4	–	–	–	●
DNGN150708T02020	12,70	15,50	0,8	–	–	–	●
DNGN150712T02020	12,70	15,50	1,2	–	–	–	●
DNGN150716T02020	12,70	15,50	1,6	–	–	–	●

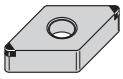


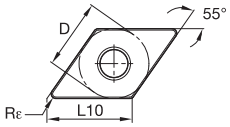


DNGA

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DNGA150404T02020	12,70	15,50	0,4	–	–	–	●
DNGA150604T02020	12,70	15,50	0,4	–	–	–	●
DNGA150408T02020	12,70	15,50	0,8	–	–	–	●
DNGA150608T02020	12,70	15,50	0,8	–	–	–	●
DNGA150412T02020	12,70	15,50	1,2	–	–	–	●
DNGA150612T02020	12,70	15,50	1,2	–	–	–	●
DNGA150416T02020	12,70	15,50	1,6	–	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B85–B93 sayfa aralığına bakınız.

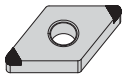


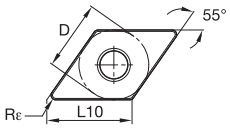


DNGA-FWMT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DNGA150408S01015FWMT	12,70	15,50	0,4	●	●	–	–
DNGA150408S01225FWMT	12,70	15,50	0,4	●	–	–	–
DNGA150412S01015FWMT	12,70	15,50	0,8	–	●	–	–
DNGA150412S01225FWMT	12,70	15,50	0,8	●	–	–	–

NOT: Takım tutucular ve Delik işleme baraları için B85–B93 sayfa aralığına bakınız.





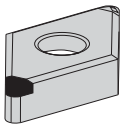
● İlk tercih
○ Alternatif tercih

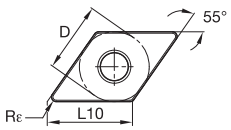
P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

DNGA-MT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DNGA150404S01015MT	12,70	15,50	0,4	●	●	–	–
DNGA150404S01025MT	12,70	15,50	0,4	–	–	●	–
DNGA150404S01225MT	12,70	15,50	0,4	–	●	–	–
DNGA150404S01735MT	12,70	15,50	0,4	–	●	–	–
DNGA150604S01015MT	12,70	15,50	0,4	●	●	–	–
DNGA150604S01225MT	12,70	15,50	0,4	–	●	–	–
DNGA150604S01735MT	12,70	15,50	0,4	–	●	–	–
DNGA150408S01735MT	12,70	15,50	0,8	●	●	–	–
DNGA150408S01015MT	12,70	15,50	0,8	●	●	–	–
DNGA150408S01025MT	12,70	15,50	0,8	–	–	●	–
DNGA150408S01225MT	12,70	15,50	0,8	●	●	–	–
DNGA150608S01015MT	12,70	15,50	0,8	●	●	–	–
DNGA150608S01225MT	12,70	15,50	0,8	●	●	–	–
DNGA150608S01735MT	12,70	15,50	0,8	–	●	–	–
DNGA150412S01015MT	12,70	15,50	1,2	●	●	–	–
DNGA150412S01225MT	12,70	15,50	1,2	●	●	–	–
DNGA150412S01735MT	12,70	15,50	1,2	●	●	–	–
DNGA150612S01015MT	12,70	15,50	1,2	●	●	–	–
DNGA150612S01225MT	12,70	15,50	1,2	●	●	–	–
DNGA150612S01735MT	12,70	15,50	1,2	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B85–B93 sayfa aralığına bakınız.

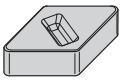


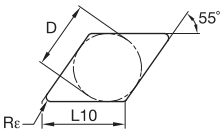


DNGM-CB1

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DNGM150408S01325MTCB1	12,70	15,50	0,8	–	●	–	–
DNGM150412S01325MTCB1	12,70	15,50	1,2	–	●	–	–
DNGM150608S01325MTCB1	12,70	15,50	0,8	–	●	–	–
DNGM150612S01325MTCB1	12,70	15,50	1,2	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B85–B93 sayfa aralığına bakınız.



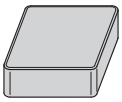


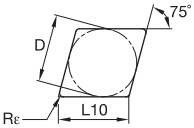
● İlk tercih
○ Alternatif tercih

P				●	
M					
K				●	
N					
S				●	
H		●	●	●	●

DNGX

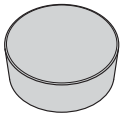
ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
DNGX150708T02020	12,70	15,50	0,8	–	–	–	●

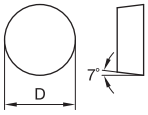




ENGN

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
ENGN130704T02020	12,70	13,15	0,4	–	–	–	●
ENGN130708T02020	12,70	13,15	0,8	–	–	–	●
ENGN130712T02020	12,70	13,15	1,2	–	–	–	●
ENGN130716T02020	12,70	13,15	1,6	–	–	–	●



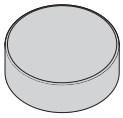
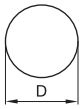


RCGX

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
RCGX090700T01020	9,53	–	–	–	–	–	●
RCGX090700T02020	9,53	–	–	–	–	–	●
RCGX090700T10015	9,53	–	–	–	–	–	●
RCGX090700T20015	9,53	–	–	–	–	–	●
RCGX120700T02020	12,70	–	–	–	–	–	●
RCGX120700T10015	12,70	–	–	–	–	–	●
RCGX120700T20015	12,70	–	–	–	–	–	●
RCGX151000T20015	15,88	–	–	–	–	–	●
RCGX191000T20015	19,05	–	–	–	–	–	●
RCGX251200T20015	25,40	–	–	–	–	–	●

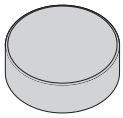
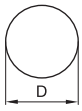
● İlk tercih
○ Alternatif tercih

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

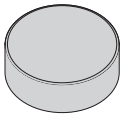
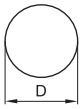
RCGW-T

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
RCGW1204M0T01020	12,00	–	–	–	–	–	●

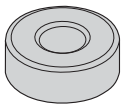
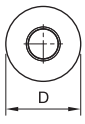
RCGX

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
RCGX0907-001	9,53	–	–	–	–	–	●

RNGN

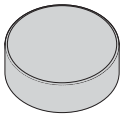
ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
RNGN090300T02020	9,53	–	–	–	–	–	●
RNGN090400T02020	9,53	–	–	–	–	–	●
RNGN120300T02020	12,70	–	–	–	–	–	●
RNGN120400T02020	12,70	–	–	–	–	–	●
RNGN120700T02020	12,70	–	–	–	–	–	●
RNGN120700T10015	12,70	–	–	–	–	–	●
RNGN120700T20015	12,70	–	–	–	–	–	●
RNGN190700T02020	19,05	–	–	–	–	–	●

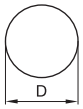



RNGA

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
RNGA090300T02020	9,53	–	–	–	–	–	●
RNGA120400T02020	12,70	–	–	–	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B95 sayfasına bakınız.



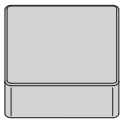


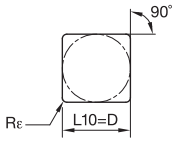
● İlk tercih
○ Alternatif tercih

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

RNGN-C

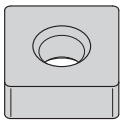
ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
RNGN090300S02015C	9,53	—	—	–	–	●	–

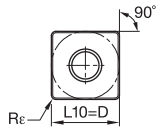




SNGN

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
SNGN090308T02020	9,53	9,53	0,8	–	–	–	●
SNGN120704T02020	12,70	12,70	0,4	–	–	–	●
SNGN120408T00520	12,70	12,70	0,8	–	–	–	●
SNGN120408T02020	12,70	12,70	0,8	–	–	–	●
SNGN120708T02020	12,70	12,70	0,8	–	–	–	●
SNGN120412T02020	12,70	12,70	1,2	–	–	–	●
SNGN120712T02020	12,70	12,70	1,2	–	–	–	●
SNGN120416T02020	12,70	12,70	1,6	–	–	–	●
SNGN120716T02020	12,70	12,70	1,6	–	–	–	●
SNGN120720T02020	12,70	12,70	2,0	–	–	–	●
SNGN120720T10015	12,70	12,70	2,0	–	–	–	●
SNGN120720T20015	12,70	12,70	2,0	–	–	–	●
SNGN150716T02020	15,88	15,88	1,6	–	–	–	●





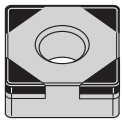
SNGA

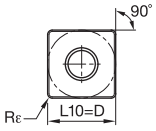
ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
SNGA120408T02020	12,70	12,70	0,8	–	–	–	●
SNGA120412T02020	12,70	12,70	1,2	–	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B105–B121 sayfa aralığına bakınız.

● İlk tercih
○ Alternatif tercih

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

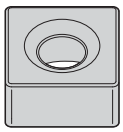


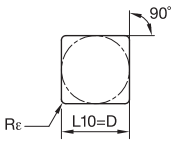


SNGA-MT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
SNGA120408S01015MT	12,70	12,70	0,8	●	–	–	–
SNGA120408S01225MT	12,70	12,70	0,8	●	●	–	–
SNGA120412S01225MT	12,70	12,70	1,2	●	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B105–B121 sayfa aralığına bakınız.

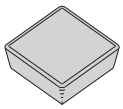


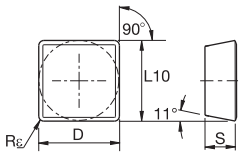


SNGX

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
SNGX120712T02020	12,70	12,70	1,2	–	–	–	●

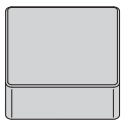
NOT: Takım tutucular ve Delik işleme baraları için B105–B121 sayfa aralığına bakınız.

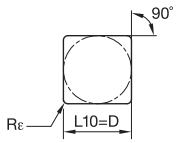




SPG-T

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
SPGN090308T01020	9,53	9,53	0,8	–	–	–	●
SPGN120308T01020	12,70	12,70	0,8	–	–	–	●

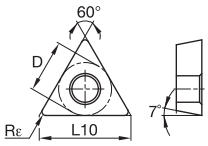




SPU-T

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
SPUN120308T00520	12,70	12,70	0,8	–	–	–	●





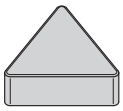
● İlk tercih
○ Alternatif tercih

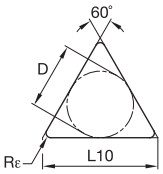
P	●
M	
K	●
N	
S	●
H	● ● ● ●

TCGW-MT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TCGW090202S01015MT	5,56	9,62	0,2	–	●	–	–
TCGW090204S01015 MT	5,56	9,62	0,4	–	●	–	–
TCGW110202S01015MT	6,35	11,00	0,2	●	●	–	–
TCGW110204S01015MT	6,35	11,00	0,4	●	●	–	–
TCGW110204S01225MT	6,35	11,00	0,4	●	–	–	–
TCGW110208S01015MT	6,35	11,00	0,8	●	●	–	–
TCGW110208S01225MT	6,35	11,00	0,8	●	–	–	–

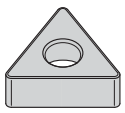
NOT: Takım tutucular ve Delik işleme baraları için B247–B248 sayfa aralığına bakınız.

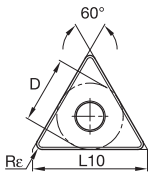




TNGN

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TNGN110308T02020	6,35	11,00	0,8	–	–	–	●
TNGN160404T02020	9,53	16,50	0,4	–	–	–	●
TNGN160408T02020	9,53	16,50	0,8	–	–	–	●
TNGN160708T02020	9,53	16,50	0,8	–	–	–	●
TNGN160412T02020	9,53	16,50	1,2	–	–	–	●
TNGN160712T02020	9,53	16,50	1,2	–	–	–	●
TNGN160416T02020	9,53	16,50	1,6	–	–	–	●
TNGN220408T02020	12,70	22,00	0,8	–	–	–	●

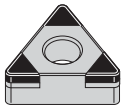


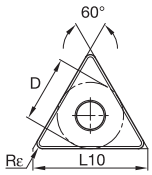


TNGA

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TNGA160408T02020	9,53	16,50	0,8	–	–	–	●
TNGA160412T02020	9,53	16,50	1,2	–	–	–	●
TNGA220408T02020	12,70	22,00	0,8	–	–	–	●
TNGA220412T02020	12,70	22,00	1,2	–	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B132–B142 sayfa aralığına bakınız.





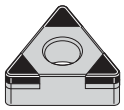
● İlk tercih
○ Alternatif tercih

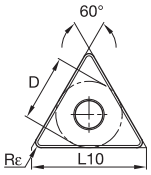
P				●
M				
K				●
N				
S				●
H	●	●	●	●

TNGA-MT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TNGA160404S01015MT	9,53	16,50	0,4	●	●	–	–
TNGA160404S01225MT	9,53	16,50	0,4	–	●	–	–
TNGA160404S01735MT	9,53	16,50	0,4	–	●	–	–
TNGA160408S01015MT	9,53	16,50	0,8	●	●	–	–
TNGA160408S01225MT	9,53	16,50	0,8	●	●	–	–
TNGA160408S01735MT	9,53	16,50	0,8	●	●	–	–
TNGA160412S01015MT	9,53	16,50	1,2	●	●	–	–
TNGA160412S01225MT	9,53	16,50	1,2	●	●	–	–
TNGA160412S01735MT	9,53	16,50	1,2	●	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B132–B142 sayfa aralığına bakınız.

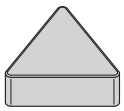


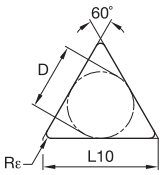


TNGM • Orta işleme

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TNGM160408S01325MTCB1	9,53	16,50	0,8	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B132–B142 sayfa aralığına bakınız.





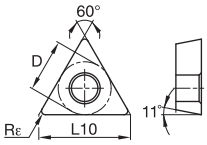
TPGN

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TPGN110304T01020	6,35	11,00	0,4	–	–	–	●
TPGN110308T01020	6,35	11,00	0,8	–	–	–	●
TPGN110312T01020	6,35	11,00	1,2	–	–	–	●
TPGN160304T00520	9,53	16,50	0,4	–	–	–	●
TPGN160304T01020	9,53	16,50	0,4	–	–	–	●
TPGN160308T00520	9,53	16,50	0,8	–	–	–	●
TPGN160308T01020	9,53	16,50	0,8	–	–	–	●
TPGN160312T01020	9,53	16,50	1,2	–	–	–	●

● İlk tercih
○ Alternatif tercih

P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●



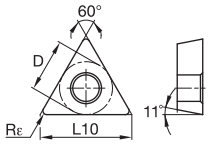


TPGW-C

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TPGW110208S01015C	6,35	11,00	0,8	–	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B257–B263 sayfa aralığına bakınız.

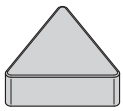


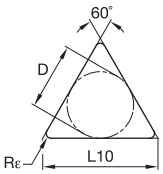


TPGW-MT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TPGW110308S01225MT	6,35	10,96	0,8	●	–	–	–
TPGW110202S01015MT	6,35	11,00	0,2	–	●	–	–
TPGW110304S01015MT	6,35	11,00	0,4	●	–	–	–
TPGW110304S01225MT	6,35	11,00	0,4	●	–	–	–
TPGW110204S01015MT	6,35	11,00	0,4	–	●	–	–
TPGW110208S01015MT	6,35	11,00	0,8	–	●	–	–
TPGW160404S01015MT	9,53	16,50	0,4	●	–	–	–
TPGW160404S01225MT	9,53	16,50	0,4	●	–	–	–
TPGW16T304S01015MT	9,53	16,50	0,4	–	●	–	–
TPGW160408S01015MT	9,53	16,50	0,8	●	–	–	–
TPGW160408S01225MT	9,53	16,50	0,8	●	–	–	–
TPGW16T308S01015MT	9,53	16,50	0,8	–	●	–	–
TPGW16T308S01225MT	9,53	16,50	0,8	–	●	–	–

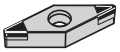
NOT: Takım tutucular ve Delik işleme baraları için B257–B263 sayfa aralığına bakınız.

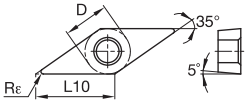




TPU-T

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
TPUN110304T00520	6,35	11,00	0,4	–	–	–	●
TPUN110308T00520	6,35	11,00	0,8	–	–	–	●
TPUN160304T00520	9,53	16,50	0,4	–	–	–	●
TPUN160308T00520	9,53	16,50	0,8	–	–	–	●
TPUN160312T00520	9,53	16,50	1,2	–	–	–	●





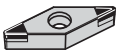
● İlk tercih
○ Alternatif tercih

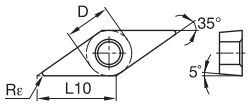
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

VBGW-MT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
VBGW110304S01015MT	6,35	11,07	0,4	●	●	–	–
VBGW110304S01225MT	6,35	11,07	0,4	–	●	–	–
VBGW110308S01015MT	6,35	11,07	0,8	●	–	–	–
VBGW110308S01225MT	6,35	11,07	0,8	–	●	–	–
VBGW160404S01015MT	9,53	16,61	0,4	●	–	●	–
VBGW160408S01015MT	9,53	16,61	0,8	●	●	●	–
VBGW160412S01015MT	9,53	16,61	1,2	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B266–B269 sayfa aralığına bakınız.

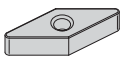


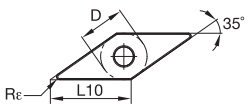


VCGW • Hafif işleme

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
VCGW160404S01015MT	9,53	16,61	0,4	–	●	–	–
VCGW160404S01225MT	9,53	16,61	0,4	–	●	–	–
VCGW160408S01015MT	9,53	16,61	0,8	–	●	–	–
VCGW160408S01225MT	9,53	16,61	0,8	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B266–B269 sayfa aralığına bakınız.

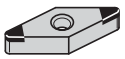


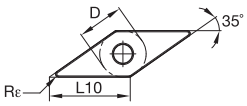


VNGA

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
VNGA160404T02020	9,53	16,61	0,4	–	–	–	●
VNGA160408T02020	9,53	16,61	0,8	–	–	–	●
VNGA160412T02020	9,53	16,61	1,2	–	–	–	●
VNGA220408T02020	12,70	22,14	0,8	–	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B149–B153 sayfa aralığına bakınız.





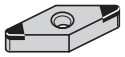
● İlk tercih
○ Alternatif tercih

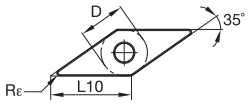
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

VNGA-MT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
VNGA160404S01015MT	9,53	16,61	0,4	●	●	–	–
VNGA160404S01025MT	9,53	16,61	0,4	–	–	●	–
VNGA160404S01225MT	9,53	16,61	0,4	●	●	–	–
VNGA160404S01735MT	9,53	16,61	0,4	–	●	–	–
VNGA160408S01015MT	9,53	16,61	0,8	●	●	–	–
VNGA160408S01025MT	9,53	16,61	0,8	–	–	●	–
VNGA160408S01225MT	9,53	16,61	0,8	●	●	–	–
VNGA160408S01735MT	9,53	16,61	0,8	–	●	–	–
VNGA160412S01225MT	9,53	16,61	1,2	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B149–B153 sayfa aralığına bakınız.

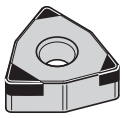


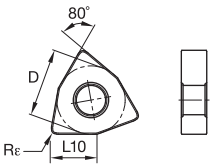


VNGM

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
VNGM160408S01325MTCB1	9,53	16,61	0,8	–	●	–	–
VNGM160412S01325MTCB1	9,53	16,61	1,2	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B149–B153 sayfa aralığına bakınız.

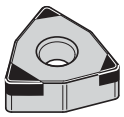


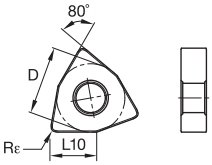


WNGA

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
WNGA080408S01015FWMT	12,70	8,69	0,8	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B161–B165 sayfa aralığına bakınız.





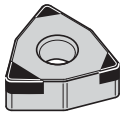
● İlk tercih
○ Alternatif tercih

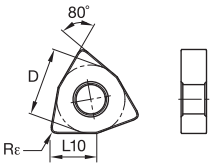
P			●	
M				
K			●	
N				
S			●	
H	●	●	●	●

WNGA-FWMT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
WNGA080408S01015FWHBMT	12,70	8,69	0,8	–	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B161–B165 sayfa aralığına bakınız.





WNGA-MT

ISO Katalog numarası	D	L10	Rε	KBH10	KBH20	KB5630	KY1615
WNGA080404S01015MT	12,70	8,69	0,4	–	●	–	–
WNGA080408S01015MT	12,70	8,69	0,8	–	●	–	–
WNGA080408S01225MT	12,70	8,69	0,8	–	●	–	–
WNGA080408S01735MT	12,70	8,69	0,8	–	●	–	–
WNGA80408S01015MT	12,70	8,69	0,8	●	–	–	–
WNGA80408S01225MT	12,70	8,69	0,8	●	–	–	–

NOT: Takım tutucular ve Delik işleme baraları için B161–B165 sayfa aralığına bakınız.

A4™ Takımlama ve Beyond™ Kesici uçlar



Bir çok iş parçası malzemesinde tornalama, alın tornalama, kanal açma, alına kanal açma ve kesme uygulamalarınız için A4 takımları seçilir. Eşsiz bağlama sistemi ve çok yönlü kesici uç geometrisi, çok yüksek bir talaş kaldırma oranı sağlar.

ÖZELLİKLER VE AVANTAJLAR

A4 Kanal açma ve Tornalama sistemi

- Tek bir takımla, tornalama, alın tornalama, kanal açma, alına kanal açma, dış çapta ve iç çapta kesme ve dilimleme uygulamalarını gerçekleştirmek son derece hızlı çevrim süreleri ve taret konumlandırmasına gerek kalmadan işleme anlamına gelir!
- Ekstra uzun bağlama aralığı, tabanda 120° alt prizma yatak yüzeyi ve özel üst yönlendirme rayı, eşsiz kanal açma ve kenar tornalama kararlılığı sağlamak için bir araya getirilmiştir!
- Doğru kesme için hassas kesici uç konumlandırması sağlanır!
- Rijit bağlama, en tok kesmelerde kesici ucu güvenilir bir şekilde yerine kilitler.
- Çok yönlü tasarım, tek bir sistemle dış çapta ve iç çapta kanal açma, alına kanal açma, sırt tornalama, alttan kesme ve tornada pürüzsüz vida dişi açma işlemlerinin gerçekleşmesini sağlar.
- Talaş kontrollü kesici uçlar, kanal açmada mükemmel talaş boşalması sağlar ve çok yönlü tornalamada daha iyi talaş kontrolü gerçekleştirir.

Yetkili Kennametal bayisindeki ya da **kennametal.com** adresindeki avantajlardan yaralanın.

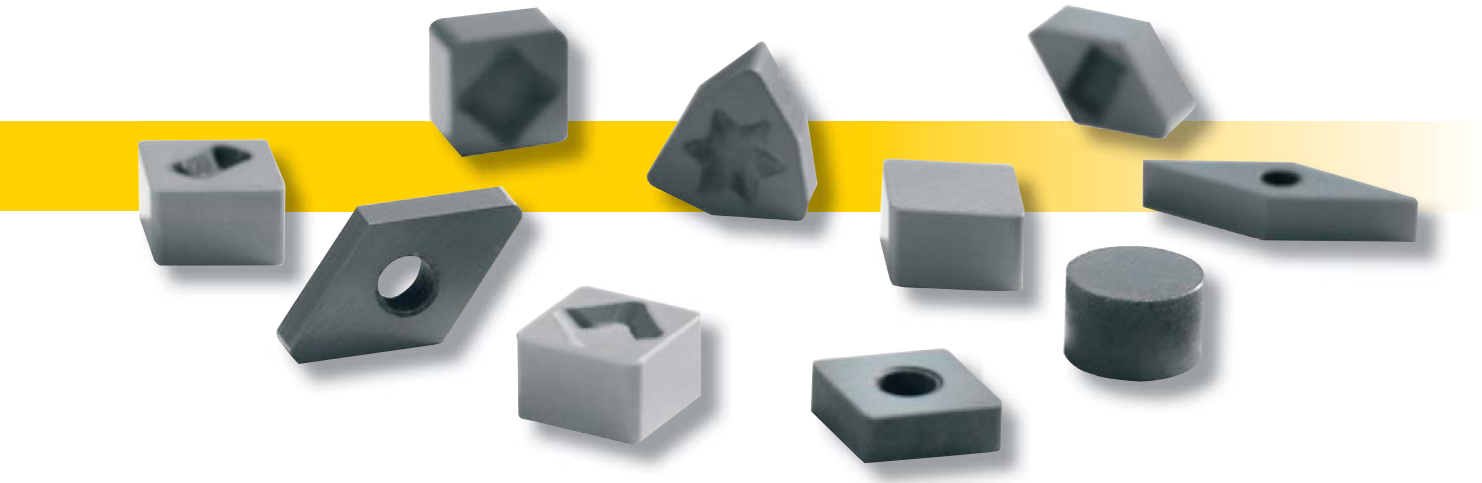
KENNAMETAL®

kennametal.com

Seramik veya PcBN ile ısıl dirençli alaşımları işleme

Beyond™ teknolojisi kullanımı sayesinde gelişmiş Kennametal malzemeleri işe bağlı olarak daha yüksek aşınma direnci ve tokluk sağlar.

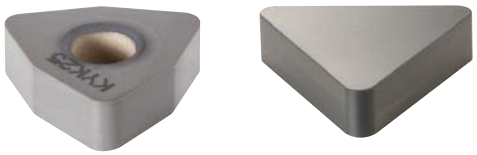
KYS seramik kesici uçlar ısıl dirençli alaşımlarda yüksek hızda uygulamalar için ilk tercihtir. Çok katmanlı kaplama, kaplamasız kalitelere göre güçlendirilmiş kimyasal aşınma direnci sağlar. Üstün bir SiAloN seramik altyapı, iplik fiber (whisker) destekli seramiklere göre mükemmel kesme derinliği çentiği oluşuma karşı direnç sağlar.



Seramik kesici uçlar

KYS25™

- Mükemmel hassas son işlemeli yüzey kalitesi, daha düşük kesme kuvvetleri ve daha yüksek hızlar.
- Gelişmiş CVD kaplama mükemmel kimyasal ve kesme derinliği çentik direnci sağlar.



KYS30™

- Uzun, tutarlı takım ömrü.
- Mükemmel tokluk ve kesme derinliği çentik direnci.
- Darbeli kesmeler ve ölçeğe bağlı uygulamaları da içeren çok geniş çeşitlilikte işleme koşullarında uygulanır.

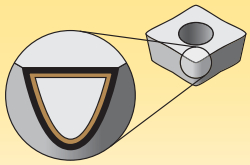


PcBN uçlu kesici uçlar

KB1630

- Uzun, tutarlı takım ömrü.
- Mükemmel tokluk ve kesme derinliği çentik direnci.
- Darbeli kesmeler ve ölçeğe bağlı uygulamaları da içeren çok geniş çeşitlilikte işleme koşullarında uygulanır.

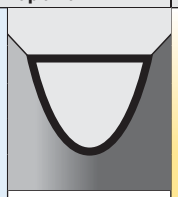
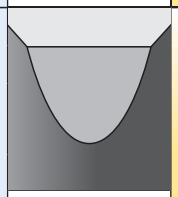
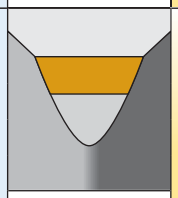




Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ⟷ **Tokluk**

	Kaplama		Kalite tanımı		05	10	15	20	25	30	35	40	45
Seramik kaliteleri	KYS25		**Bileşim:** Çok katmanlı alüminyumoksit TiCN CVD kaplamalı SiAlON seramik. **Uygulama:** Isıl dirençli ve nikel esaslı alaşımlar ile yüksek Brinell sertliğine sahip döküm malzemelerini işlerken KYS30™ kalitesini destekler. Bu gelişmiş CVD kaplama, iplik fiberli (whisker) seramiklere karşın mükemmel kimyasal direnç ve kesme derinliği çentik direnci sağlar.	S									
				H									
	KYS30		**Bileşim:** En son ve en ileri geliştirilen SiAlON malzeme. **Uygulama:** Isıl dirençli alaşımlarının hassas son işlemesinde mükemmel aşınma özelliklerini, kopma tokluğunu ve ısıl sok dayanımını genel amaca yönelik olarak bir araya getirerek kaynaştırır. İplik fiberli seramiklere (Whisker) kıyasla daha mükemmel kesme derinliği çentik dayanımı sağlar.	S									
PcBN – Çok kristalli kübik bor nitrür kaliteleri	KB1630		**Bileşim:** Kaplamasız yüksek içerikli PcBN kalite. PcBN uçlar, karbür kesici uçta lehimli. **Uygulama:** Sertleştirilmiş çelikleri (>45 HRC) darbeli kesmelerde kaba işlemeden hassas son işlemeye kadar olan uygulamalar için tasarlanmıştır. Ayrıca, gri dökme demir, sert dökme demir (kokil döküm), yüksek krom alaşımlı çelik, ısıl dirençli alaşımlar ve sinterlenmiş toz metallerde uygulanabilir. PcBN uçlu kesici uçlar, Top Notch™ ve vida bağlamalı geometriler de dahil olmak üzere çeşitli kesici uç tiplerinde mevcuttur.	K									
				S									
				H									

NOVO NASIL ARAYACAĞINI BİLİR

NOVO™, nun sunduğu Öner ve Seç işlevleriyle geliştirilmiş bir takım aranıyor ve böylelikle zaman ve maliyet tasarrufu sağlanıyor.

ÖNER

Kesici takım önerileri sunmak için kural tabanlı bir yaklaşım kullanır:

- İşleme özellikli tanımlar (yüzey frezeleme, kanal frezeleme, kör delik, vb.)
- Gerekli sınırlamaları uygular (geometri, malzeme, tolerans, vb.)
- İşleme sıralamasını düzenler (tek veya çok adımlı işlemler, kaba işleme ardından hassas işleme, vb.)
- Üst düzey sonuç sağlar

SEÇ

Bir hiyerarşi veya parametrik arama yoluyla, bir ağaç yapısından kesici takımları seçme yöntemidir:

- Hangi ürünü aradığınızı biliyorsanız, yalnızca katalog numarası ya da ürün açıklamasıyla hızlı bir arama gerçekleştirilebilir.
- Akıllı filtreler potansiyel takımlama çözümlerinin sayısını önemli ölçüde azaltır.
- Takım seçildikten sonra, NOVO ayrıca kesme ve uyarlanabilir çözümünüz ile uyumlu takım seçenekleri sunar.

NOVO tezgahlarınızda işinize uygun takımlara doğru sıralamayla sahip olabilmenizi sağlar. Her işi hızlandırır ve sorunsuz uygulama ile her vardiyadan en yüksek verimliliğin elde edilebilmesini sağlar. **kennametal.com/novo**

Adım 1 • Kesici uç geometrisi seçimi

Negatif kesici uçlar



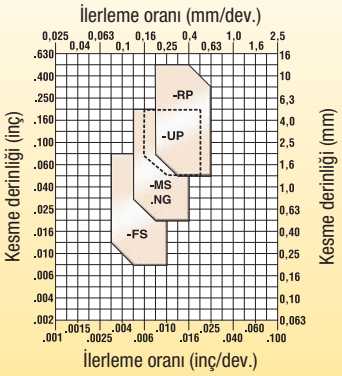
-RP
Kaba işleme

-MS
Orta kaba işleme

.NG

-UP
Orta kaba işleme

-FS
Hassas son işleme



Pozitif kesici uçlar



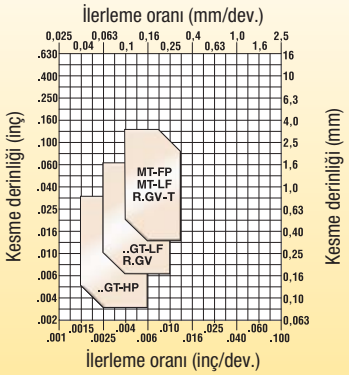
MT-LF
R.GV-T
Orta kaba işleme

MT-FP
Orta kaba işleme

..GT-LF
Hassas son işleme

R.GV

..GT-HP
Hassas son işleme



Adım 2 • Kalite seçimi

Kesme şartı	Negatif kesici uç geometrisi .NG
Aşırı derecede ağır darbeli kesme	–
Hafif bir şekilde darbeli kesme	KYS30/KY1540
Değişken kesme derinliği, yüzey (döküm) kabuğu veya dövme kabuk	KYS30/KY1540/KYS25/KY4300
Düz hassas kesme, ön tornalanmış yüzey	KYS25/KY4300

Kesme şartı	Pozitif kesici uç geometrisi R.GV-T
Aşırı derecede ağır darbeli kesme	–
Hafif bir şekilde darbeli kesme	KYS30/KY1540
Değişken kesme derinliği, yüzey (döküm) kabuğu veya dövme kabuk	KYS30/KY1540/KYS25/KY4300
Düz hassas kesme, ön tornalanmış yüzey	KYS25/KY4300

3. Adım • Kesme hızını seçme

Demir esaslı, ısıl dirençli alaşımlar (135–320 HB) (≤34 HRC) — **Hız — m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

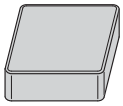
Malzeme grubu	Kalite	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/dk.	Yüzey ilerleme/dk.
S1	KB1630									◁▷					260	850
	KYS25/KY4300								◁▷						200	650
	KYS30/KY1540							◁▷							170	550

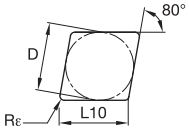
Kobalt esaslı, ısıl dirençli alaşımlar (150–425 HB) (≤45 HRC) — **Hız — m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/dk.	Yüzey ilerleme/dk.
S2	KB1630									◁▷					260	850
	KYS25/KY4300								◁▷						220	720
	KYS30/KY1540							◁▷							185	600

Nikel esaslı, ısıl dirençli alaşımlar (140-475 HB) (≤48 HRC) — **Hız — m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	15 (50)	45 (150)	75 (250)	105 (350)	140 (450)	170 (550)	200 (650)	230 (750)	260 (850)	290 (950)	310 (1050)	350 (1150)	380 (1250)	m/dk.	Yüzey ilerleme/dk.
S3	KB1630									◁▷					260	125
	KYS25/KY4300								◁▷						250	820
	KYS30/KY1540							◁▷							215	700



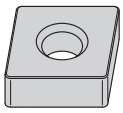


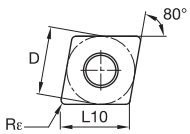
● İlk tercih
○ Alternatif tercih

P			
M			
K			
N			
S	●	●	○
H	○		●

CNGN

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
CNGN120416T01020	12,70	12,90	1,6	●	–	–
CNGN120712T01020	12,70	12,90	1,2	●	●	–
CNGN120716T01020	12,70	12,90	1,6	–	●	–

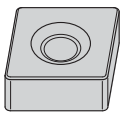


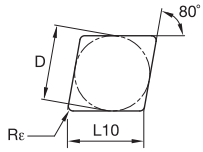


CNGA

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
CNGA120408E	12,70	12,90	0,8	●	●	–
CNGA120408T01020	12,70	12,90	0,8	●	●	–
CNGA120412T01020	12,70	12,90	1,2	●	●	–

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.

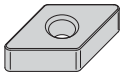


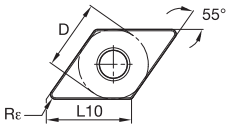


CNGX

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
CNGX120708T01020	12,70	12,90	0,8	●	●	–
CNGX120712T01020	12,70	12,90	1,2	●	●	–
CNGX120716E	12,70	12,90	1,6	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.





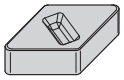
● İlk tercih
○ Alternatif tercih

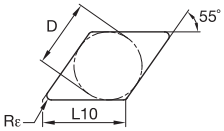
P			
M			
K			
N			
S	●	●	○
H	○		●

DNGA

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
DNGA150408T01020	12,70	15,50	0,8	–	●	–
DNGA150412T01020	12,70	15,50	1,2	–	●	–

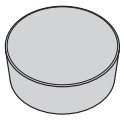
NOT: Takım tutucular ve Delik işleme baraları için B85–B93 sayfa aralığına bakınız.

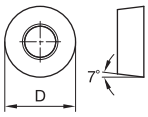




DNGX

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
DNGX150708T01020	12,70	15,50	0,8	●	–	–
DNGX150712T01020	12,70	15,50	1,2	●	●	–
DNGX150716T01020	12,70	15,50	1,6	–	●	–



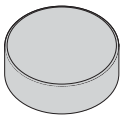
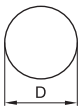


RCGX

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
RCGX060400E	6,35	–	–	●	●	–
RCGX090700E	9,53	–	–	●	●	–
RCGX090700T00525	9,53	–	–	–	●	–
RCGX090700T01020	9,53	–	–	●	●	–
RCGX120700E	12,70	–	–	●	●	–
RCGX120700T01020	12,70	–	–	●	●	–
RCGX120700T01025	12,70	–	–	●	●	–

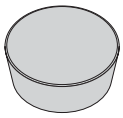
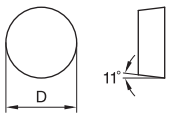
● İlk tercih
○ Alternatif tercih

P			
M			
K			
N			
S	●	●	○
H	○		●

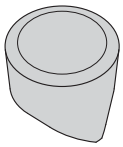
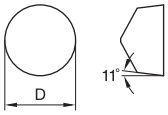
RNGN

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
RNGN120400T01020	12,70	–	–	–	●	–
RNGN120700T00525	12,70	–	–	–	●	–
RNGN120700T01020	12,70	–	–	–	●	–
RNGN120700T01025	12,70	–	–	●	●	–
RNGN190700T01020	19,05	–	–	–	●	–

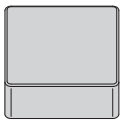
RPGN

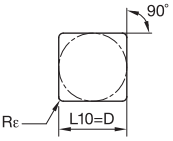
ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
RPGN060200E	6,35	–	–	–	●	–
RPGN090300E	9,53	–	–	–	●	–
RPGN090300T01020	9,53	–	–	–	●	–
RPGN120400E	12,70	–	–	–	●	–
RPGN120400T01020	12,70	–	–	–	●	–

RPGX

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
RPGX090700E	9,53	–	–	●	●	–
RPGX090700T01020	9,53	–	–	–	●	–
RPGX120700E	12,70	–	–	●	●	–
RPGX120700T01020	12,70	–	–	–	●	–



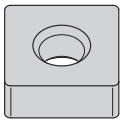


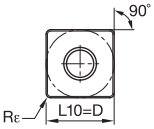
● İlk tercih
○ Alternatif tercih

P			
M			
K			
N			
S	●	●	○
H	○		●

SNGN

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
SNGN120408T01020	12,70	12,70	0,8	–	●	–
SNGN120412T01020	12,70	12,70	1,2	–	●	–
SNGN120416T01020	12,70	12,70	1,6	●	●	–
SNGN120716T01020	12,70	12,70	1,6	–	●	–
SNGN190616E	19,05	19,05	1,6	●	–	–
SNGN190616T01020	19,05	19,05	1,6	–	●	–
SNGN190724E	19,05	19,05	2,4	–	●	–

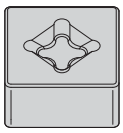


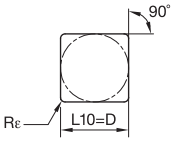


SNGA

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
SNGA120412T01020	12,70	12,70	1,2	●	●	–

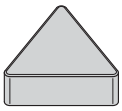
NOT: Takım tutucular ve Delik işleme baraları için B105–B121 sayfa aralığına bakınız.

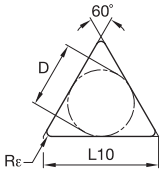




SNGX

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
SNGX120712T01020	12,70	12,70	1,2	–	●	–
SNGX120716T01020	12,70	12,70	1,6	–	●	–



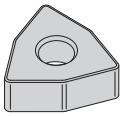


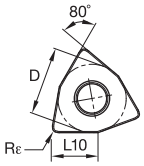
● İlk tercih
○ Alternatif tercih

P			
M			
K			
N			
S	●	●	○
H	○		●

TNGN

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
TNGN220412T01020	12,70	22,00	1,2	●	–	–
TNGN220416T01020	12,70	22,00	1,6	●	–	–

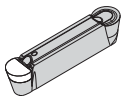


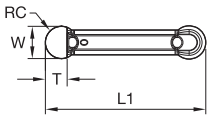


WNGA

ISO Katalog numarası	D	L10	Rε	KYS25	KYS30	KB1630
WNGA080408T01020	12,70	8,69	0,8	–	●	–
WNGA080416T01020	12,70	8,69	1,6	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B161–B165 sayfa aralığına bakınız.





● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

Düz başlı, tam radyüslü, hassas taşlanmış • PcBN

Katalog numarası	Yuva ölçüsü	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0300M03P00EST	3	3,00	1,5	20	2,2	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0400M04P00EST	4	4,00	2,0	20	2,9	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0500M05P00EST	5	5,00	2,5	25	3,7	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0600M06P00EST	6	6,00	3,0	30	4,4	–	–	–	–	–	–	–	–	–	–	●	–	–

NOT: A4 Tutucular, Delik işleme baraları ve Tornalama uçları için C104–C135 sayfa aralığına bakınız.

Çok kristalli elmas içeren kesici uçlar



Çok kristalli elmas (PCD) kesici uçlar

- Isıl dirençli alaşımların işlenmesinde ve demir dışı malzemelerin işlenmesinde kullanılır.
- Karbür kesici uçlara göre gözle görünür sertlik avantajı.
- Daha yüksek hızlar ve daha uzun takım ömrü sayesinde artan verimlilik.
- Bilinen geleneksel takımlarla işlenemeyen malzemelerin işlenmesinde kullanılır.

KD1400™

- Demir dışı malzemeleri genel amaçlı tornalama için ideal.
- Düşükten orta silikon değerine kadar içerikli alüminyum alaşımlarda, metal dışı malzemelerde, bakır, pirinç ve çinko esaslı alaşımlarda kullanılır.
- Mükemmel mekanik darbe direnci.
- Üstün hassas son işlemeli yüzey kalitesinin gerekli olduğu sürekli darbeli kesmeye dayalı geniş bir aralıkta kullanılır.



KD1405™

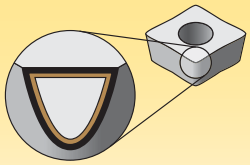
- Kennametal' den demir dışı ve metal olmayan malzemeler için aşınmaya karşı son derece yüksek dirençli takım malzemesi.
- Uygulamada aşınma direnci gerektiğinde kullanılır.
- CVD Elmas kalite.



KD1425™

- Aşırı aşınma direnci için tasarlanarak geliştirilmiştir.
- Zorlu uygulamalarda iyi kesme kenarı dayanıklılığı.
- Yüksek silikon alüminyum alaşımları, bi-metalik malzemeler, karbon elyaf destekli plastik ve diğer aşındırıcı metal olmayan malzemeler için ideal bir seçim.



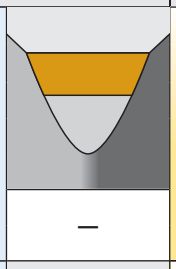
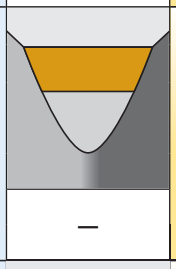
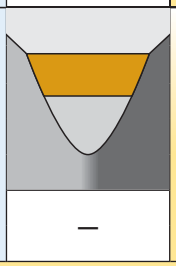


Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ← → **Tokluk**

PCD—Çok kristalli elmas kaliteleri

Kaplama	Kalite tanımı		05	10	15	20	25	30	35	40	45
KD1400 	**Bileşim:** Karbür altyapıya lehimlenmiş çok ince taneli, çok kristalli elmas (PCD). **Uygulama:** Temel olarak demir dışı malzemeleri genel amaçlı tornalamak için tasarlanmıştır. Üstün hassas son işlemeli yüzey kalitesinin gerekli olduğu sürekliden darbeli kesmelere kadar geniş bir aralıkta uygulanabilir. Düşük değerden ortaya kadar silikon içerikli alüminyum alaşımlarda, metal olmayan malzemelerde, bakır, pirinç ve çinko esaslı alaşımlarda kullanınılır. Son derece ince taneli elmas parçacık bütünlüğü üstün hassas son işlemeli yüzey kalitesi sağlarken herhangi bir PCD kesici takımda en iyi mekanik şok direnci elde edilir.										
		N									
		S									
KD1405 	**Bileşim:** Saf CVD (Kimyasal buharlı birikim) katmanlı elmas plaka takımı doğrudan karbür altyapısına lehimlidir. **Uygulama:** KD1405™, demir dışı metaller ve metalik olmayan malzemeler için en iyi Kennametal asınmaya dayanıklı takım malzemesidir. Aşınma direncinin istenen avantajı sağlayacağı varsayıldığında en iyi şekilde uygulanır.										
		N									
		S									
KD1425 	**Bileşim:** Karbür altyapısına lehimli çeşitli tane boyutlarında çoklu biçimli PCD kalite. **Uygulama:** Zorlu uygulamalar için iyi bir kenar dayanıklılığı ile birleştirilmiş son derece yüksek aşınma direnci için tasarlanmıştır. Yüksek silikonlu alüminyum alaşımlar, bi- metalik (AL/GCI) malzemeler, metal tabanlı kompositler (MMC), karbon lif destekli plastikler ve diğer aşındırıcı metalik olmayan malzemeler için ideal tercihtir.										
		N									
		S									

Beyond™ PVD Kaliteleri



Beyond™ gelişmiş PVD kaplamalar, tok alaşımların işlenmesi ile ilgili oluşan yüksek ısılara dayanıklılık sağlamak için oldukça uygundur. Bu kaplamalar artan takım ömrü ve genel makina imalatı, taşımacılık uçak ve uzay, enerji sektörlerinde ve toprak hafriyatı piyasalarında üretkenlikte artış sağlar. Beyond PVD kaplamaların ve geniş ürün programının gücü, geniş çeşitlilikte malzemelerde ve uygulamalarda tornalama, kanal açma, kesme ve dilimleme işlemlerini gerçekleştirmek amacıyla kullanılır. Beyond PVD kaplamalar düzenli talaş kontrolünü korumaya ve kesici uç kesme kenarı aşınmasını en alt düzeye indirmeye yardımcı olur.

beyond™

KCU10™

- Mükemmel aşınma direncine sahip PVD kaplamalı kalite. Hassas son işlemeden orta işlemeye kadar olan uygulamalar.
- Özellikle paslanmaz çelikler ve ısıl dirençli alaşımlar olmak üzere tüm malzemelerde kullanılır.

KCU25™

- Üstün kenar tokluğuna ve mükemmel aşınma direncine sahip PVD kaplamalı kalite. Orta işlemeden kaba işlemeye kadar olan uygulamalar.
- Tüm malzemelerde kullanılır.

Yetkili Kennametal satış bayilerinde veya **kennametal.com** adresinde avantajlardan yararlanın.

KENNAMETAL®

kennametal.com

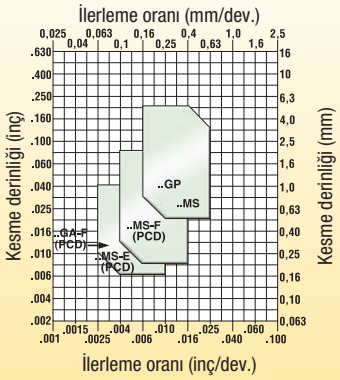
1. Adım • Kesici uç geometrisi seçimi

Negatif kesici uçlar



..MS-E (PCD) ..GA-F (PCD)
Hassas son işleme

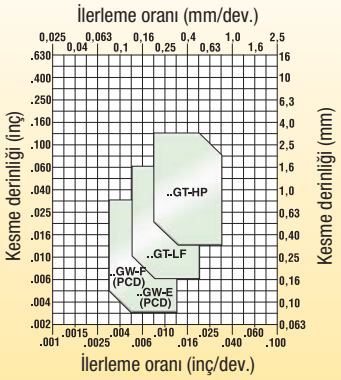
..GA-E (PCD)
Son derece hassas son işleme



Pozitif kesici uçlar



..GW-F (PCD) ..GW-E (PCD)



2. Adım • Kalite seçimi

		Negatif kesici uç geometrisi			Pozitif kesici uç geometrisi	
Kesme şartı		**..GA-E (PCD)**	**..MS-E (PCD)**	**..GA-F (PCD)**	**..GW-E (PCD)**	**..GW-F (PCD)**
Aşırı derecede ağır darbeli kesme		–	–	**KD1400**	–	**KD1400**
Hafif bir şekilde darbeli kesme		**KD1405**	**KD1405**	**KD1400**	**KD1405**	**KD1400**
Değişken kesme derinliği, yüzey (döküm) kabuğu veya dövme kabuk		**KD1405**	**KD1405**	**KD1425**	**KD1405**	**KD1425**
Düz hassas kesme, ön tornalanmış yüzey		**KD1405**	**KD1405**	**KD1425**	**KD1405**	**KD1425**

3. Adım • Kesme hızını seçme

Düşük silikon alüminyum alaşımlar (ötektik altı <%12,2 Si) ve Magnezyum alaşımlar

Hız — m/dk. (Yüzey ilerleme/dk.) **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	250 (800)	500 (1600)	750 (2400)	1000 (3200)	1250 (4000)	1500 (4800)	1750 (5600)	2000 (6400)	2250 (7200)	2500 (8000)	m/dk.	Yüzey ilerleme/dk.
N1	**KD1400**			◁▷								765	2500

Yüksek silikon alüminyum alaşımlar (ötektik üstü >%12,2 Si) ve Magnezyum alaşımlar

Hız — m/dk. (Yüzey ilerleme/dk.) **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/dk.	Yüzey ilerleme/dk.
N3	**KD1405**		◁▷			550	1800
	KD1425			◁▷		765	2500

Çeşitli özellikte iş parçası malzemeleri için ilave kesme hızı önerileri

İşlenebilirlik dizini 70–100 aralığında Bakır, Pirinç, Çinko esaslı — **Hız — m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/dk.	Yüzey ilerleme/dk.
N4	KD1400/KD1405		◁▷			520	1700
	KD1425		◁▷			260	850

Naylon, Plastikler, Lastikler, Fenolikler, Reçineler, Cam elyaf ve Cam — **Hız — m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

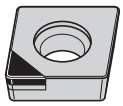
Malzeme grubu	Kalite	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/dk.	Yüzey ilerleme/dk.
N5	KD1400/KD1405		◁▷			400	1300
	KD1425		◁▷			365	1200

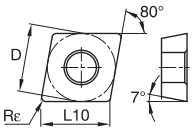
Karbon ve Grafit kompozitler:
Brush (yüksek performanslı) alaşımlar, Kevlar ve Grafit (280–400 HB) (30–43 HRC) — **Hız — m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/dk.	Yüzey ilerleme/dk.
N6	KD1400/KD1405			◁▷		760	2500

MMC' ler (Alüminyum esaslı metal tabanlı kompozitler) — **Hız — m/dk. (Yüzey ilerleme/dk.)** — **Başlangıç koşulları** ◁▷

Malzeme grubu	Kalite	250 (800)	500 (1600)	750 (2400)	1000 (3200)	m/dk.	Yüzey ilerleme/dk.
N7	KD1405		◁▷			460	1500
	KD1400		◁▷			365	1200





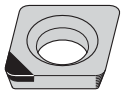
● İlk tercih
○ Alternatif tercih

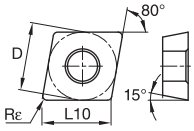
P				
M				
K				
N	●	○	●	
S		●	●	
H				

CCGW-FST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
CCGW060204FST	6,35	6,45	0,4	●	–	●
CCGW09T304FST	9,53	9,67	0,4	●	–	●
CCGW09T308FST	9,53	9,67	0,8	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B179–B183 sayfa aralığına bakınız.

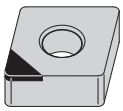


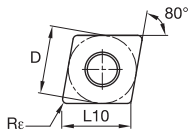


CDHB-FST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
CDHBS4T002FST	3,97	4,03	0,2	●	–	●
CDHBS4T0X0FST	3,97	4,03	0,1	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B185–B187 sayfa aralığına bakınız.

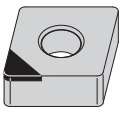


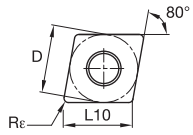


CNGA

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
CNGA120404E	12,70	12,90	0,4	–	●	–
CNGA120408E	12,70	12,90	0,8	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.





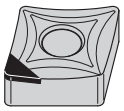
CNGA-FST

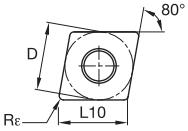
ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
CNGA120404FST	12,70	12,90	0,4	●	–	●
CNGA120408FST	12,70	12,90	0,8	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.

● İlk tercih
○ Alternatif tercih

P			
M			
K			
N	●	○	●
S		●	●
H			

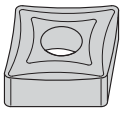


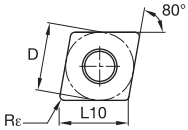


CNMS-E

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
CNMS120408E	12,70	12,90	0,8	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.

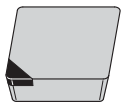


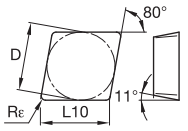


CNMS-FST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
CNMS120404FST	12,70	12,90	0,4	●	–	–
CNMS120408FST	12,70	12,90	0,8	●	–	●

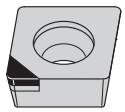
NOT: Takım tutucular ve Delik işleme baraları için B58–B73 sayfa aralığına bakınız.

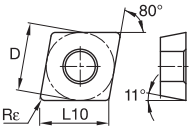




CPGN

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
CPGN120304F	12,70	12,90	0,4	–	–	●
CPGN120308F	12,70	12,90	0,8	–	–	●

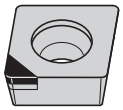


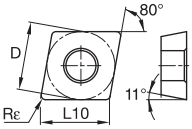


CPGW-E-F

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
CPGW060204E	6,35	6,45	0,4	–	●	–
CPGW09T304E	9,53	9,67	0,4	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B192–B205 sayfa aralığına bakınız.





● İlk tercih
○ Alternatif tercih

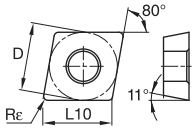
P			
M			
K			
N	●	○	●
S		●	●
H			

CPGW-FWST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
CPGW060204FWST	6,35	6,45	0,4	●	–	●
CPGW09T308FWST	9,53	9,67	0,8	●	–	●
CPGW120408FWST	12,70	12,90	0,8	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B192–B205 sayfa aralığına bakınız.

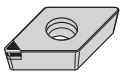


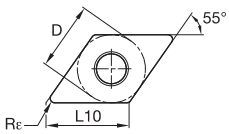


CPGW-ST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
CPGW060202FST	6,35	6,45	0,2	●	–	●
CPGW060204FST	6,35	6,45	0,4	●	–	●
CPGW060208FST	6,35	6,45	0,8	●	–	●
CPGW09T304FST	9,53	9,67	0,4	●	–	●
CPGW09T308FST	9,53	9,67	0,8	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B192–B205 sayfa aralığına bakınız.

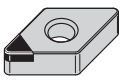


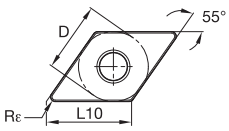


DCGW-ST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
DCGW070204FST	6,35	7,75	0,4	●	–	●
DCGW11T304FST	9,53	11,63	0,4	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B209–B213 sayfa aralığına bakınız.





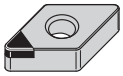
DNGA

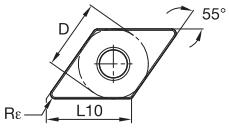
ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
DNGA150404E	12,70	15,50	0,4	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B85–B93 sayfa aralığına bakınız.

● İlk tercih
○ Alternatif tercih

P			
M			
K			
N	●	○	●
S		●	●
H			

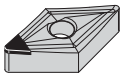


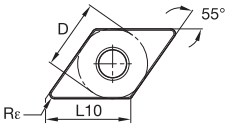


DNGA-FST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
DNGA150404FST	12,70	15,50	0,4	●	–	●
DNGA150408FST	12,70	15,50	0,8	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B192–B205 sayfa aralığına bakınız.

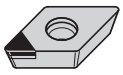


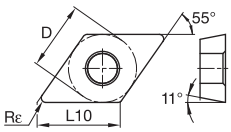


DNMS-FST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
DNMS150404FST	12,70	15,50	0,4	●	–	–
DNMS150408FST	12,70	15,50	0,8	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B192–B205 sayfa aralığına bakınız.





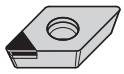
DPGW-E

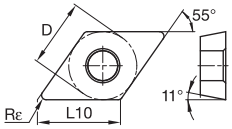
ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
DPGW11T304E	9,53	11,63	0,4	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B217–B221 sayfa aralığına bakınız.

● İlk tercih
○ Alternatif tercih

P			
M			
K			
N	●	○	●
S		●	●
H			

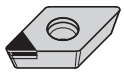


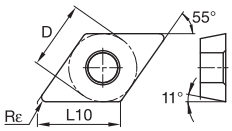


DPGW-FST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
DPGW070202FST	6,35	7,75	0,2	●	–	●
DPGW070204FST	6,35	7,75	0,4	●	–	●
DPGW11T304FST	9,53	11,63	0,4	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B217–B221 sayfa aralığına bakınız.

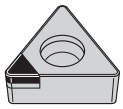


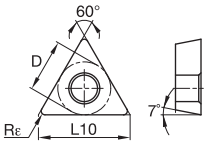


DPGW-FWST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
DPGW11T304FWST	9,53	11,63	0,2	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B217–B221 sayfa aralığına bakınız.

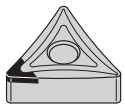


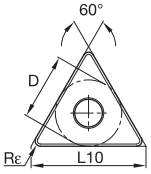


TCGW-FST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
TCGW110204FST	6,35	11,00	0,4	●	–	●
TCGW16T304FST	9,53	16,50	0,4	●	–	–

NOT: Takım tutucular ve Delik işleme baraları için B247–B248 sayfa aralığına bakınız.





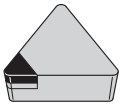
TNMS-FST

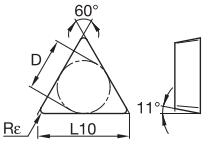
ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
TNMS160404FST	9,53	16,50	0,4	●	–	●
TNMS160408FST	9,53	16,50	0,8	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B132–B142 sayfa aralığına bakınız.

● İlk tercih
○ Alternatif tercih

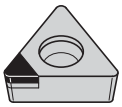
P			
M			
K			
N	●	○	●
S		●	●
H			

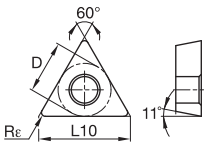




TPGN

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
TPGN110304F	6,35	11,00	0,4	–	–	●
TPGN160304F	9,53	16,50	0,4	–	–	●
TPGN160308F	9,53	16,50	0,8	–	–	●
TPGN220408F	12,70	22,00	0,8	–	–	●

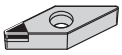


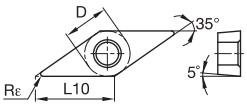


TPGW-FST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
TPGW110204FST	6,35	11,00	0,4	●	–	●
TPGW110208FST	6,35	11,00	0,8	●	–	–
TPGW16T304FST	9,53	16,50	0,4	–	–	●
TPGW16T308FST	9,53	16,50	0,8	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B257–B263 sayfa aralığına bakınız.

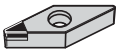


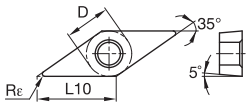


VBGW-E

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
VBGW160408E	9,53	16,61	0,8	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B266–B269 sayfa aralığına bakınız.





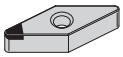
● İlk tercih
○ Alternatif tercih

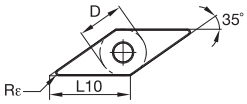
P			
M			
K			
N	●	○	●
S		●	●
H			

VBGW-FST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
VBGW110304FST	6,35	11,07	0,4	●	–	●
VBGW160404FST	9,53	16,61	0,4	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B266–B269 sayfa aralığına bakınız.

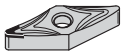


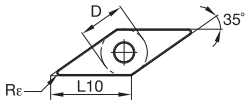


VNGA-FST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
VNGA160404FST	9,53	16,61	0,4	●	–	–
VNGA160408FST	9,53	16,61	0,8	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B149–B153 sayfa aralığına bakınız.

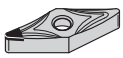


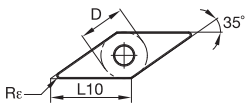


VNMS-E

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
VNMS160404E	9,53	16,61	0,4	–	●	–
VNMS160408E	9,53	16,61	0,8	–	●	–

NOT: Takım tutucular ve Delik işleme baraları için B149–B153 sayfa aralığına bakınız.

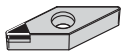


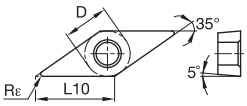


VNMS-FST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
VNMS160404FST	9,53	16,61	0,4	●	–	●
VNMS160408FST	9,53	16,61	0,8	●	–	●

NOT: Takım tutucular ve Delik işleme baraları için B149–B153 sayfa aralığına bakınız.



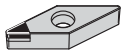


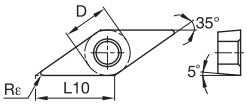
● İlk tercih
○ Alternatif tercih

P			
M			
K			
N	●	○	●
S		●	●
H			

VPGN

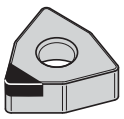
ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
VCGN160404	9,53	16,61	0,4	–	–	●
VCGN160408	9,53	16,61	0,8	–	–	●

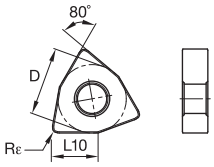




VPGR

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
VCGR160404	9,53	16,61	0,4	–	–	●
VCGR160408	9,52	16,61	0,8	–	–	●
VCGR160412	9,53	16,61	1,2	–	–	●



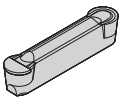


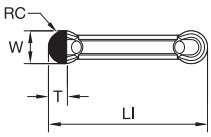
WNGA-FST

ISO Katalog numarası	D	L10	Rε	KD1400	KD1405	KD1425
WNGA080408FST	12,70	8,69	0,8	–	–	●

NOT: Takım tutucular ve Delik işleme baraları için B161–B165 sayfa aralığına bakınız.

● İlk tercih
○ Alternatif tercih

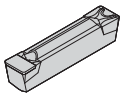


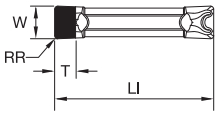


Düz başlı, tam radyüslü, hassas taşlanmış • PCD

Katalog numarası	Yuva ölçüsü	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P						●	●	●	●	○		○	○		●			
M						●	●				○	●	○					
K						○	○	○	○	●	○	○	○	●	○	○		
N						●	○				●	●	○					●
S						●	●				●	○	○			○		
H						○						○				●	●	
A4R0500M05P00E	5	5,00	2,5	25	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●

NOT: A4 Tutucular, Delik işleme baraları ve Tornalama uçları için C104–C135 sayfa aralığına bakınız.

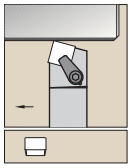


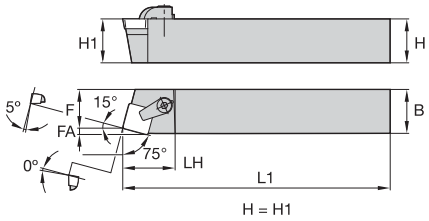


Düz başlı, hassas taşlanmış • PCD

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04E	3	3,00	0,4	20	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0400M04P04E	4	4,00	0,4	20	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0500M05P08E	5	5,00	0,8	25	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●

NOT: A4 Tutucular, Delik işleme baraları ve Tornalama uçları için C104–C135 sayfa aralığına bakınız.

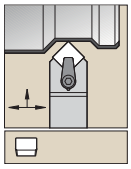


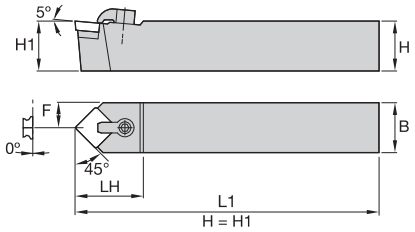


CSBP 75°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü														
1097750	**CSBPR2020K12**	20	20	17,0	125	30,0	3,1	SP..120308	**SM840**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm

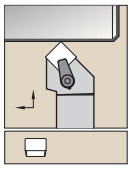


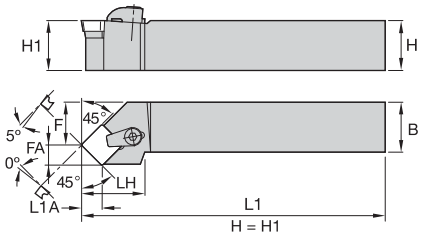


CSDP 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen
1097754	**CSDPN2020K12**	20	20	10,0	125	32,0	SP..120308	**SM840**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1097755	**CSDPN2525M12**	25	25	12,5	150	32,0	SP..120308	**SM840**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm

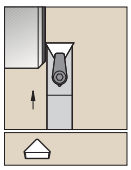


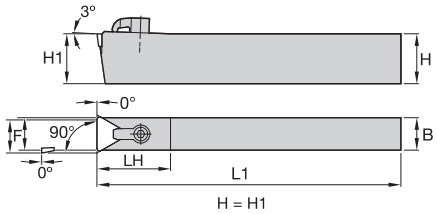


CSSP 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	L1A	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü															
1244605	**CSSPR2020K12**	20	20	25,0	125	32,0	8,7	8,3	SP..120308	**SM840**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1244606	**CSSPR2525M12**	25	25	32,0	150	32,0	8,7	8,3	SP..120308	**SM840**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm
Sol yönlü															
1244604	**CSSPL2525M12**	25	25	32,0	150	32,0	8,7	8,3	SP..120308	**SM840**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm

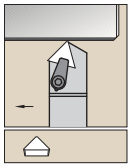


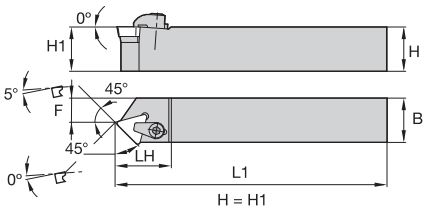


CTCPN 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen
1097775	**CTCPN2510M11**	25	10	10,0	150	26,0	TP..110304	**SM819**	**MS960**	–	**CKM7**	**STCM5**	2.5 mm
1097776	**CTCPN2514M16**	25	14	14,4	150	28,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM13**	**STCM4**	4 mm
1097781	**CTCPN2518M22**	25	18	19,2	150	41,0	TP..220408	**SM837**	**MS125**	2.5 mm	**CKM13**	**STCM4**	4 mm
1097778	**CTCPN2520M22**	25	20	20,2	150	41,0	TP..220408	**SM837**	**MS125**	2.5 mm	**CKM13**	**STCM4**	4 mm

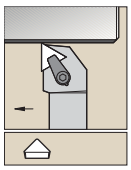


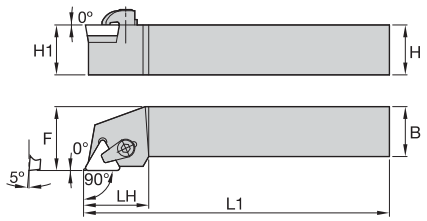


CTDP 45°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Çene	Sıkma vidası	Altıgen
Sağ yönlü												
1244613	**CTDPR1212F11**	12	12	6,0	80	22,0	TP..110304	**SM819**	**MS960**	**CKM19**	**STCM9**	2.5 mm

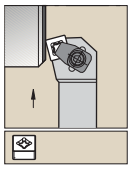


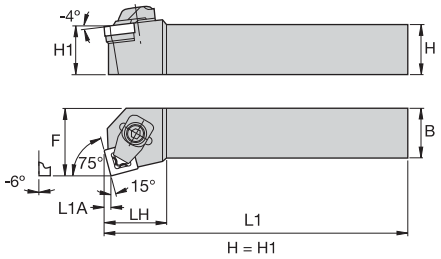


CTGP 90°



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü													
1097762	**CTGPR1212F11**	12	12	16,0	80	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1097763	**CTGPR1616H11**	16	16	20,0	100	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1244595	**CTGPR2020K11**	20	20	25,0	125	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1097764	**CTGPR2020K16**	20	20	25,0	125	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1097765	**CTGPR2525M16**	25	25	32,0	150	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm
Sol yönlü													
1097916	**CTGPL1212F11**	12	12	16,0	80	20,0	TP..110304	**SM819**	**MS960**	–	**CKM19**	**STCM9**	2.5 mm
1097918	**CTGPL2020K16**	20	20	25,0	125	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM10**	**STCM8**	4 mm
1097919	**CTGPL2525M16**	25	25	32,0	150	26,0	TP..160308	**SM841**	**MS111**	2 mm	**CKM9**	**STCM4**	4 mm





CCKN 75° • MX

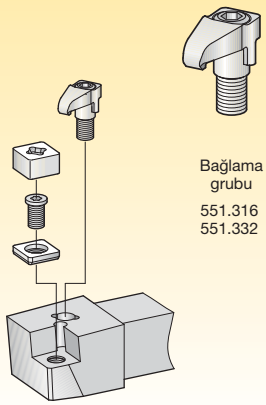




Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sağ yönlü													
2891706	**CCKNR2525M12MX7**	25	25	32,0	150	32,0	3,1	CNGX120708	**552.221**	**554.252**	2.5 mm	**551.013**	4 mm
Sol yönlü													
2891727	**CCKNL2525M12MX7**	25	25	32,0	150	32,0	3,1	CNGX120708	**552.221**	**554.252**	2.5 mm	**551.013**	4 mm

Yedek parçalar • -MX, -MN, -MF ve -MA Bağlama çeşitleri

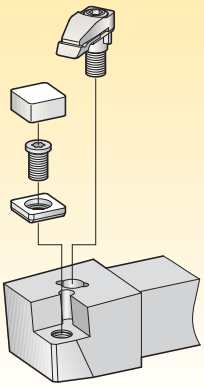
Bağlama yöntemi MX



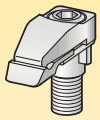
Bağlama grubu

551.316
551.332

Bağlama yöntemi MN

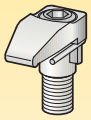


Özellikli bağlama elemanları



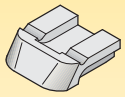
Bağlama grubu

551.251
551.255



Bağlama elemanı

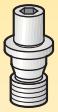
551.333
551.317

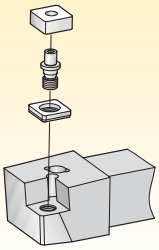


Baskı plakası

557.111
557.111

Bağlama yöntemi MA

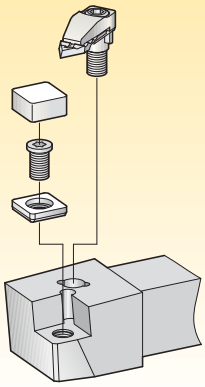




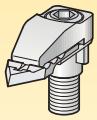
Kilitleme pimi

554.016
554.017
554.018

Bağlama yöntemi MF

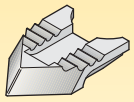


Özellikli bağlama elemanları



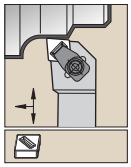
Bağlama grubu

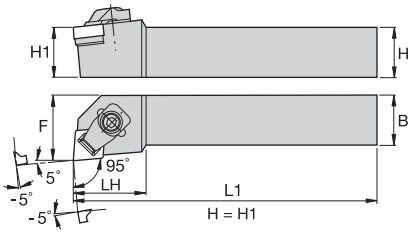
551.252
551.253
551.254
551.256
551.257
551.258
551.260
551.261



Talaş kırıcı

557.125
557.126
557.127
557.120
557.121
557.122
557.123
557.124





CCLN 95° • MX





Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sağ yönlü												
1260025	**CCLNR2525M12-MX7**	25	25	32,0	150	32,0	CN.X120708	**552.221**	**554.252**	2.5 mm	**551.316**	4 mm
1260028	**CCLNR3225P12-MX7**	32	25	32,0	170	32,0	CN.X120708	**552.221**	**554.252**	2.5 mm	**551.316**	4 mm
Sol yönlü												
1260017	**CCLNL2525M12-MX7**	25	25	32,0	150	30,0	CN.X120708	**552.221**	**554.252**	2.5 mm	**551.316**	4 mm
1260020	**CCLNL3225P12-MX7**	32	25	32,0	170	32,0	CN.X120708	**552.221**	**554.252**	2.5 mm	**551.316**	4 mm

CCLN 95° • MN

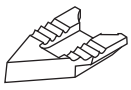





Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü													
1260023	**CCLNR2525M12-MN4**	25	25	32,0	150	32,0	CN.N120408	**552.220**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1260024	**CCLNR2525M12-MN7**	25	25	32,0	150	32,0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1504937	**CCLNR3225P12-MN4**	32	25	32,0	170	32,0	CN.N120408	**552.220**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1260027	**CCLNR3225P12-MN7**	32	25	32,0	170	32,0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
Sol yönlü													
1260015	**CCLNL2525M12-MN4**	25	25	32,0	150	32,0	CN.N120408	**552.220**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1260016	**CCLNL2525M12-MN7**	25	25	32,0	150	32,0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1504931	**CCLNL3225P12-MN7**	32	25	32,0	170	32,0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

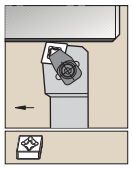
CCLN 95° • MF

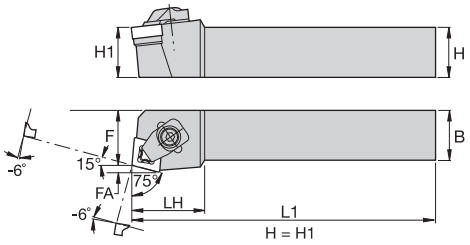





Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Talaş kırıcı	Bağlama grubu	Altıgen
Sağ yönlü													
1260022	**CCLNR2525M12-MF4**	25	25	32,0	150	32,0	CN.N120408	**552.220**	**554.252**	2.5 mm	**557.125**	**551.317**	4 mm
1503826	**CCLNR2525M12-MF7**	25	25	32,0	150	32,0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.125**	**551.317**	4 mm
Sol yönlü													
1260014	**CCLNL2525M12-MF4**	25	25	32,0	150	32,0	CN.N120408	**552.220**	**554.252**	2.5 mm	**557.125**	**551.317**	4 mm
1504935	**CCLNL2525M12-MF7**	25	25	32,0	150	32,0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.125**	**551.317**	4 mm

NOT: MX — Bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
V.CLN R/L 2525M12
V.CLN R/L 3225P12
V.CLN R/L 3225P16



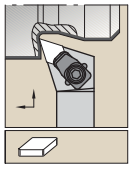


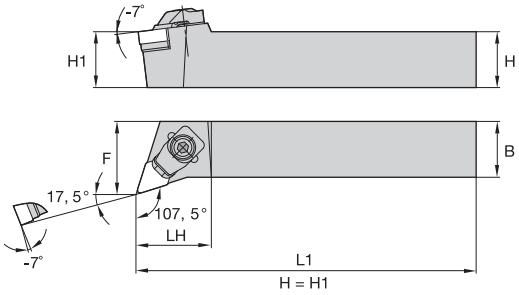
CCRN 75° • MN



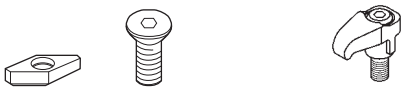
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü														
1504885	**CCRNR3225P12-MN7**	32	25	27,0	170	35,0	3,1	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
Sol yönlü														
1503827	**CCRNL2525M12-MN7**	25	25	27,0	150	35,0	3,1	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

NOT: MX — Bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
V.CRN R/L 2525M12
V.CRN R/L 3225P12
V.CRN R/L 3225P16



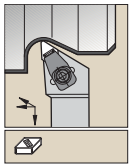


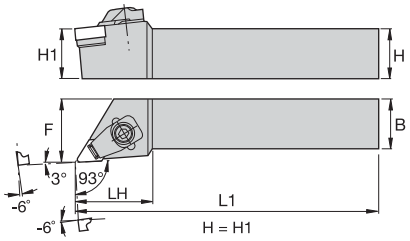
CDHN 107,5° • MX



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sağ yönlü												
1505504	**CDHNR2525M12-MX7**	25	25	32,0	150	30,0	DN.X120708	**552.225**	**554.254**	2.5 mm	**551.316**	4 mm

NOT: MN — Bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
V.DHN R/L 2525M12
V.DHN R/L 2525M15
V.DHN R/L 3225P15





CDJN 93° • MX

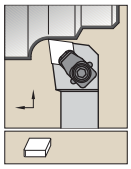


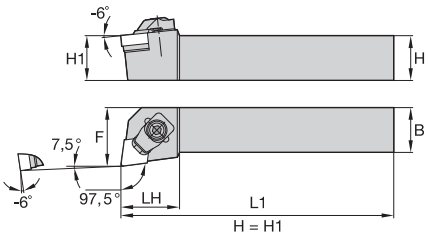
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sağ yönlü												
1260177	**CDJNR2525M15-MX7**	25	25	32,0	150	38,0	DN.X150708	**552.228**	**554.252**	2.5 mm	**551.332**	4 mm
Sol yönlü												
1260172	**CDJNL2525M12-MX7**	25	25	32,0	150	38,0	DN.X120708	**552.225**	**554.254**	2.5 mm	**551.316**	4 mm
1504968	**CDJNL2525M15MX7**	25	25	32,0	150	38,0	DN.X150708	**552.228**	**554.252**	2.5 mm	**551.332**	4 mm

CDJN 93° • MN



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü													
1260176	**CDJNR2525M15MN7**	25	25	32,0	150	38,0	DN.N150708	**552.228**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1327362	**CDJNR3225P15MN7**	32	25	32,0	170	38,0	DN.N150708	**552.228**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
Sol yönlü													
1504969	**CDJNL2525M15MN7**	25	25	32,0	150	38,0	DN.N150708	**552.228**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1327363	**CDJNL3225P15MN7**	32	25	32,0	170	38,0	DN.N150708	**552.228**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm





CELN 97,5° • MX





Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sağ yönlü												
1505803	**CELNR2525M13-MX7**	25	25	32,0	150	32,0	EN.X130708	**552.240**	**554.252**	2.5 mm	**551.316**	4 mm

CELN 97,5° • MN

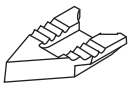





Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü													
1501222	**CELNR2525M13MN7**	25	25	32,0	150	32,0	EN.N130708	**552.240**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
Sol yönlü													
1501221	**CELNL2525M13MN7**	25	25	32,0	150	32,0	EN.N130708	**552.240**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

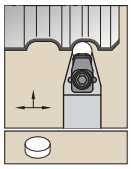
CELN 97,5° • MF

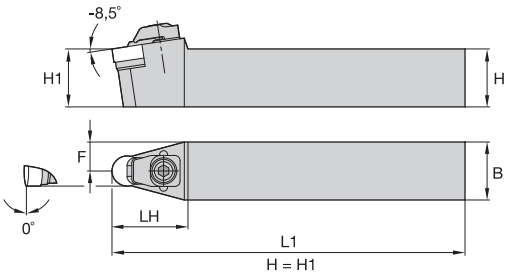





Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Talaş kırıcı	Bağlama grubu	Altıgen
Sağ yönlü													
1331458	**CELNR2525M13MF7**	25	25	32,0	150	32,0	EN.N130708	**552.240**	**554.252**	2.5 mm	**557.125**	**551.317**	4 mm

NOT: MN — Bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
V.ELN R/L 2525M13
V.ELN R/L 3225P13



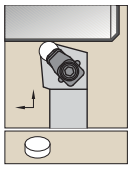


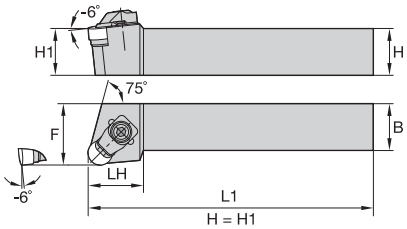
CRDN • MN



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
1510281	**CRDNN2525M12MN4**	25	25	12,5	150	30,0	RN.N120400	**552.229**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1313053	**CRDNN2525M12MN7**	25	25	12,5	150	30,0	RN.N120700	**552.230**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1502204	**CRDNN3225P12MN4**	32	25	12,5	170	30,0	RN.N120400	**552.229**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1320407	**CRDNN3225P12MN7**	32	25	12,5	170	30,0	RN.N120700	**552.230**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm

NOT: MN — Bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
V.RDN N 2525M12
V.RDN N 3225M12



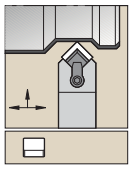


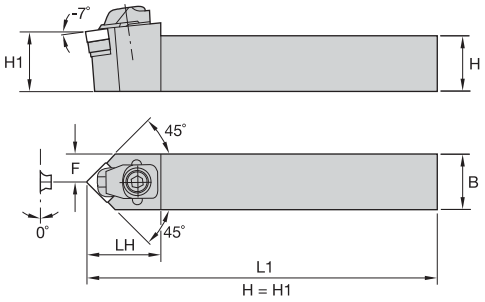
CRSN • MN



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü													
1510285	**CRSNR2525M12-MN4**	25	25	32,0	150	26,0	RN.N120400	**552.229**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1324116	**CRSNR2525M12MN7**	25	25	32,0	150	26,0	RN.N120700	**552.230**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1510286	**CRSNR3225P12MN4**	32	25	32,0	170	26,0	RN.N120400	**552.229**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1261273	**CRSNR3225P12MN7**	32	25	32,0	170	26,0	RN.N120700	**552.230**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
Sol yönlü													
1510282	**CRSNL2525M12-MN4**	25	25	32,0	150	26,0	RN.N120400	**552.229**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1510283	**CRSNL2525M12MN7**	25	25	32,0	150	26,0	RN.N120700	**552.230**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1510284	**CRSNL3225P12MN4**	32	25	32,0	170	26,0	RN.N120400	**552.229**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm
1331597	**CRSNL3225P12MN7**	32	25	32,0	170	26,0	RN.N120700	**552.230**	**554.252**	2.5 mm	**557.111**	**551.333**	4 mm

NOT: MN — Bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
V.RSN R/L 2525M12
V.RSN R/L 3225P12

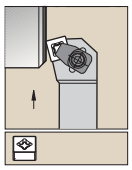


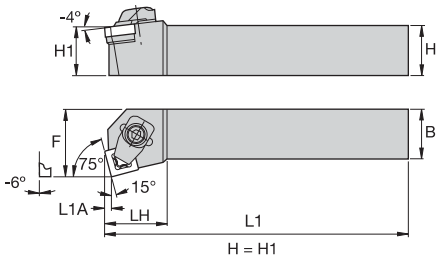


CSDN • MX



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
2891696	**CSDNN2525M12MX7**	25	25	12,5	151	36,0	SNGX120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm



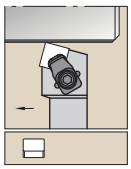


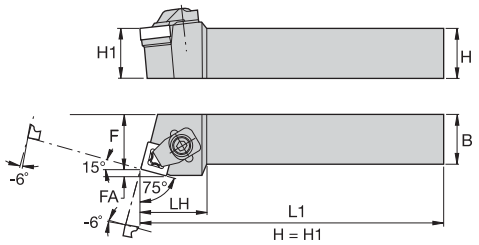
CSKN 75° • MN



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü														
1261315	**CSKNR2525M12-MN7**	25	25	32,0	150	27,0	3,0	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
Sol yönlü														
1261299	**CSKNL2525M12-MN4**	25	25	32,0	150	27,0	3,0	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261300	**CSKNL2525M12-MN7**	25	25	32,0	150	27,0	3,0	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

NOT: MX — bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
V.SKN R/L 2525M12



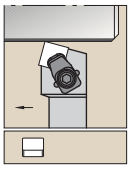


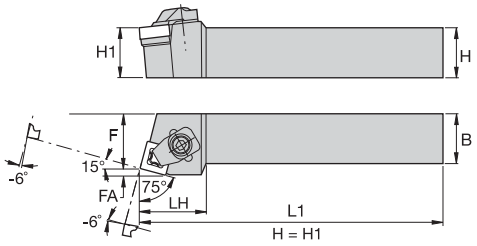
CSRN 75° • MX



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sol yönlü													
1510300	**CSRNL3225P15-MX7**	32	25	27,0	170	34,0	4,1	SN.X150708	**552.234**	**554.253**	3 mm	**551.316**	4 mm

NOT: MX — bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
V.SRN R/L 2525M12
V.SRN R/L 3225P12
V.SRN R/L 3225P15

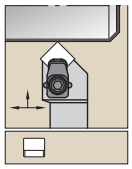


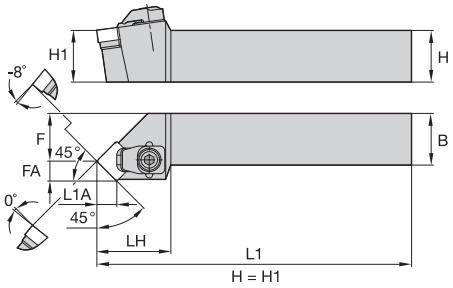


CSRN 75° • MN



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü														
1510303	**CSRNR2525M12-MN4**	25	25	27,0	150	32,0	3,1	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261336	**CSRNR2525M12-MN7**	25	25	27,0	150	32,0	3,1	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
Sol yönlü														
1510291	**CSRNL2525M12-MN4**	25	25	27,0	150	32,0	3,1	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1510292	**CSRNL2525M12-MN7**	25	25	27,0	150	32,0	3,1	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261334	**CSRNL3225P12-MN7**	32	25	27,0	170	32,0	3,1	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm





CSSN 45° • MX

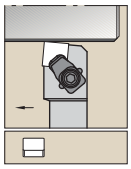


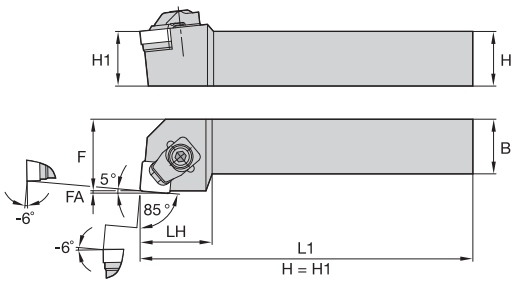
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	L1A	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sağ yönlü														
1261367	**CSSNR2525M12-MX7**	25	25	32,0	150	35,0	8,3	8,3	SN.X120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm
1261378	**CSSNR3225P15-MX7**	32	25	32,0	159	37,0	10,6	10,6	SN.X150708	**552.234**	**554.253**	3 mm	**551.316**	4 mm
Sol yönlü														
1261350	**CSSNL2525M12-MX7**	25	25	23,7	150	35,0	8,6	8,3	SN.X120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm

CSSN 45° • MN

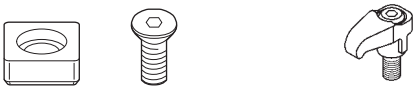


Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	L1A	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü															
1261366	**CSSNR2525M12-MN7**	25	25	32,0	142	35,0	8,3	8,3	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261370	**CSSNR3225P12-MN4**	32	25	32,0	162	35,0	8,3	8,3	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261371	**CSSNR3225P12-MN7**	32	25	32,0	162	35,0	8,3	8,3	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
Sol yönlü															
1261349	**CSSNL2525M12-MN7**	25	25	32,0	142	35,0	8,3	8,3	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261353	**CSSNL3225P12-MN4**	32	25	32,0	162	35,0	8,3	8,3	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1261354	**CSSNL3225P12-MN7**	32	25	32,0	162	35,0	8,3	8,3	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm





CSXN 85° • MX

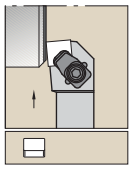


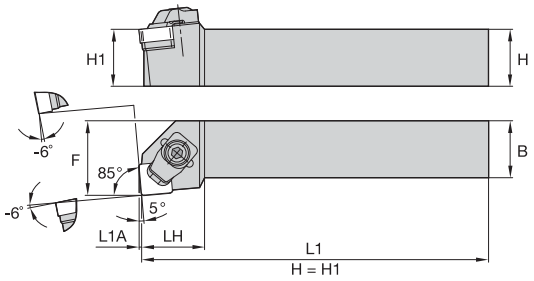
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sağ yönlü													
1510334	**CSXNR3225P12-MX7**	32	25	32,0	170	30,0	1,1	SN.X120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm

CSXN 85° • MN



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	FA	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü														
1510327	**CSXNR2525M12-MN4**	25	25	32,0	150	30,0	1,1	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
Sol yönlü														
1510313	**CSXNL2525M12-MN4**	25	25	32,0	150	30,0	1,1	SN.N120408	**552.231**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm





CSYN 85° • MX



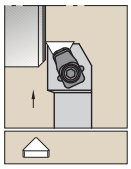
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sol yönlü													
1261414	**CSYNL3225P12-MX7**	32	25	32,0	170	27,0	1,0	SN.X120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm

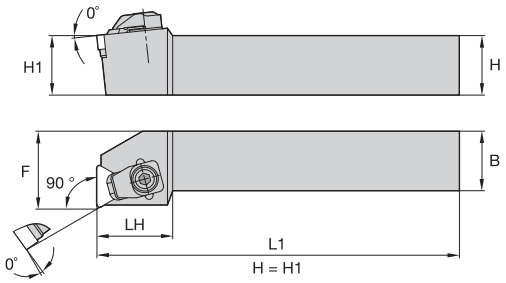
CSYN 85° • MN



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	L1A	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü														
1261423	**CSYNR2525M12-MN7**	25	25	32,0	150	27,0	1,1	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
Sol yönlü														
1261408	**CSYNL2525M12-MN7**	25	25	32,0	150	27,0	1,1	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

NOT: MN — bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
V.SYN R/L 2525M12
V.SYN R/L 3225P12



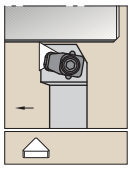


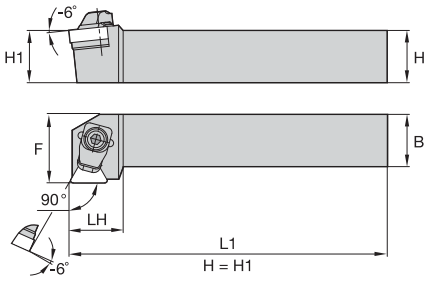
CTFN 90° • MN



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü													
1510344	**CTFNR2525M16-MN4**	25	25	32,0	150	29,0	TN.N160408	**552.235-H**	**554.254**	2.5 mm	**557.111**	**551.333**	4 mm
Sol yönlü													
1510341	**CTFNL2525M16-MN4**	25	25	32,0	150	29,0	TN.N160408	**552.235-H**	**554.254**	2.5 mm	**557.111**	**551.333**	4 mm

NOT: MN — bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
V.TFN R/L 2525M16



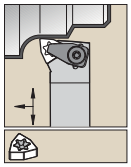


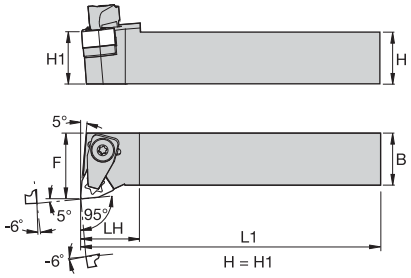
CTGN 90° • MN



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü													
1261482	**CTGNR2525M16-MN4**	25	25	32,0	150	20,0	TN.N160408	**552.235-H**	**554.254**	2.5 mm	**557.111**	**551.333**	4 mm
1261483	**CTGNR2525M16-MN7**	25	25	32,0	150	20,0	TN.N160708	**552.236**	**554.254**	2.5 mm	**557.111**	**551.333**	4 mm
Sol yönlü													
1261478	**CTGNL2525M16-MN4**	25	25	32,0	150	20,0	TN.N160408	**552.235-H**	**554.254**	2.5 mm	**557.111**	**551.333**	4 mm
1261479	**CTGNL2525M16-MN7**	25	25	32,0	150	20,0	TN.N160708	**552.236**	**554.254**	2.5 mm	**557.111**	**551.333**	4 mm

NOT: MN — bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
V.TGN R/L 2525M16



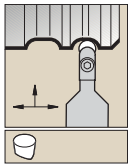


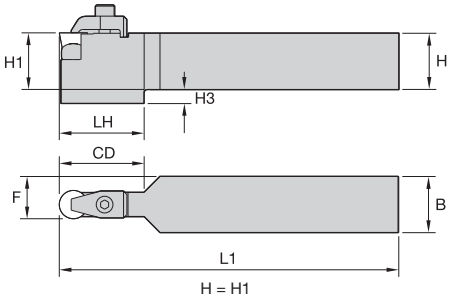
CWLN 95° • MX



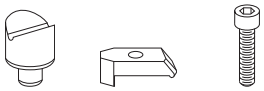


Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sağ yönlü												
1873227	**CWLNR3225P08-MX7**	32	25	32,0	170	32,0	WN.X080708	**552.210**	**554.252**	2.5 mm	**551.316**	4 mm
Sol yönlü												
1873224	**CWLNL2525M08-MX7**	25	25	32,0	150	32,0	WN.X080708	**552.210**	**554.252**	2.5 mm	**551.316**	4 mm



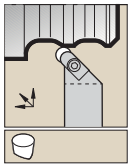


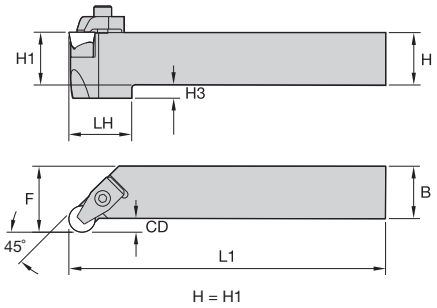
CRDP



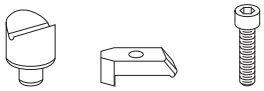
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	H3	CD	Ayar ucu	Yuva pimi	Çene	Sıkma vidası	Altıgen
3642247	**CRDPN2525M06V**	25	25	12,5	151	—	—	19,0	RPGX060400E	**NST1**	**CM214**	**MS1321**	2.5 mm
3642249	**CRDPN3232P09V**	32	32	16,0	171	—	—	29,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm
3642248	**CRDPN2525M09V**	25	25	12,5	151	—	—	29,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm
3642251	**CRDPN3232P12V**	32	32	16,0	171	—	—	38,0	RPGX120700E	**NST3**	**CM216**	**CS412**	3.5 mm
3642252	**CRDPN3232P15V**	32	32	16,0	171	38,1	6,4	38,0	RPGX151000	**NST4**	**CM217**	**MS1294**	6 mm

NOT: CRDP takım tutucular RPGX ve RCGX kesici uç tipleri ile kullanabilir.



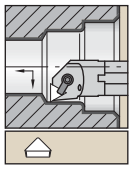


CRGP

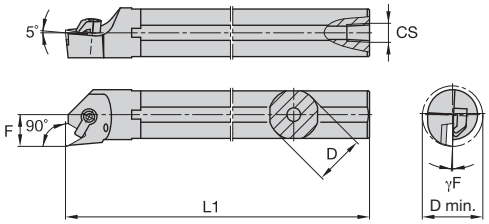


Sipariş numarası	Katalog numarası	H	B	F	L1	CD	Ayar ucu	Yuva pimi	Çene	Sıkma vidası	Altıgen
Sağ yönlü											
3642276	**CRGPR2525M06V**	25	25	32,0	151	7,0	RPGX060400E	**NST1**	**CM214**	**MS1321**	2.5 mm
3642280	**CRGPR3232P09V**	32	32	40,0	171	8,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm
Sol yönlü											
3642277	**CRGPL2525M06V**	25	25	32,0	151	7,0	RPGX060400E	**NST1**	**CM214**	**MS1321**	2.5 mm
3642281	**CRGPL3232P09V**	32	32	40,0	171	8,0	RPGX090700E	**NST2**	**CM219**	**CS412**	3.5 mm

NOT: CRGP takım tutucular RPGX ve RCGX kesici uç tipleriyle kullanabilir.



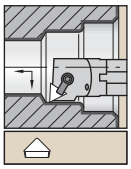
İçten soğutmalı çelik şaft.



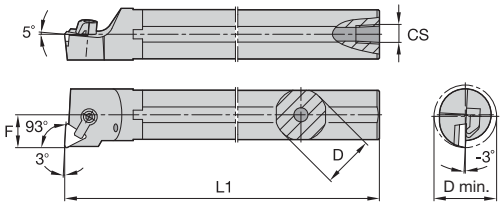
A-CTFP 90°



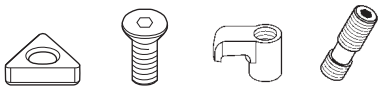
Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	γF°	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen
Sağ yönlü														
1886492	**A16RCTFPR11**	16	20,0	11,0	200	1/8-27 NPT	-4.0	TP..110304	**–**	**–**	–	**CKM19**	**STCM9**	2.5 mm
1098051	**A20QCTFPR11**	20	25,0	13,0	180	1/8-27 NPT	0.0	TP..110304	**SM815**	**MS961**	–	**CKM19**	**STCM9**	2.5 mm
1098053	**A25RCTFPR16**	25	32,0	17,0	200	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
1098055	**A32SCTFPR16**	32	40,0	22,0	250	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
1886494	**A40VCTFPR16**	40	48,0	27,0	400	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
Sol yönlü														
1098054	**A25RCTFPL16**	25	32,0	17,0	200	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm
1098056	**A32SCTFPL16**	32	40,0	22,0	250	1/4-18 NPT	-3.0	TP..160308	**SM841**	**MS110**	2 mm	**CKM10**	**STCM8**	4 mm



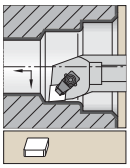
İçten soğutmalı çelik şaft.



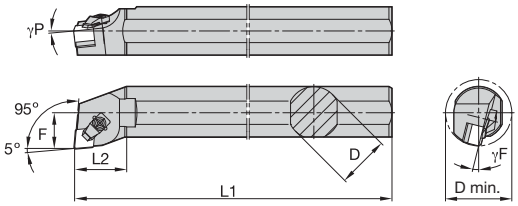
A-CTUP 93°



Sipariş numarası	Katalog numarası	D	D min.	F	L1	CS	Ayar ucu	Altlık	Altlık vidası	Çene	Sıkma vidası	Altıgen
Sağ yönlü												
1098057	**A16MCTUPR11**	16	20,0	11,0	150	1/8-27 NPT	TP..110304	**SM815**	**MS961**	**CKM19**	**STCM9**	2.5 mm
Sol yönlü												
1098058	**A16MCTUPL11**	16	20,0	11,0	150	1/8-27 NPT	TP..110304	**SM815**	**MS961**	**CKM19**	**STCM9**	2.5 mm



İçten soğutmalı çelik şaft.



S-CCLN 95° • MX



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	γF°	γP°	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sağ yönlü														
2890773	**S32SCCLNR12MX7**	32	40,0	22,0	251	43	-14.0	-5.0	CN.X120708	–	–	–	**551.316**	4 mm
1289077	**S40T-CCLNR12-MX7**	40	55,0	27,0	300	40	-14.0	-6.0	CN.X120708	**552.221**	**554.252**	2.5 mm	**551.316**	4 mm
Sol yönlü														
1510401	**S40T-CCLNL12-MX7**	40	55,0	27,0	300	40	-14.0	-6.0	CN.X120708	**552.221**	**554.252**	2.5 mm	**551.316**	4 mm

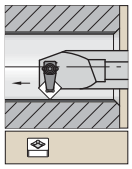
NOT: MN — bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
S40T-V.CLN R/L 12

S-CCLN 95° • MN

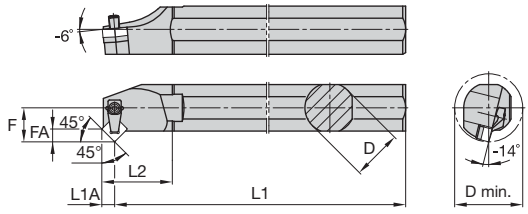


Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	γF°	γP°	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü															
1289075	**S40T-CCLNR12-MN4**	40	55,0	27,0	300	40	-14.0	-6.0	CN.N120408	**552.220**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
1289076	**S40T-CCLNR12-MN7**	40	55,0	27,0	300	40	-14.0	-6.0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm
Sol yönlü															
1289072	**S40T-CCLNL12-MN7**	40	55,0	27,0	300	40	-14.0	-6.0	CN.N120708	**552.221**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

NOT: MN — Bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
S40T-V.SSN R/L 12



İçten soğutmalı çelik şaft.

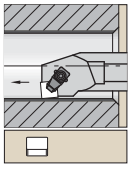


S-CSSN 45° • MX

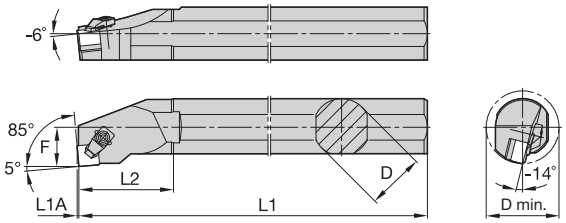


Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	L1A	FA	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sağ yönlü														
1873498	**S40T-CSSNR12-MX7**	40	55,0	27,0	300	67,0	8,3	8,3	SN.X120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm
Sol yönlü														
1873499	**S40T-CSSNL12-MX7**	40	55,0	27,0	300	67,0	8,3	8,3	SN.X120708	**552.232**	**554.252**	2.5 mm	**551.316**	4 mm

NOT: MX — bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
S40T-V.SSN R/L 12



İçten soğutmalı çelik şaft.



S-CSYN 85° • MN

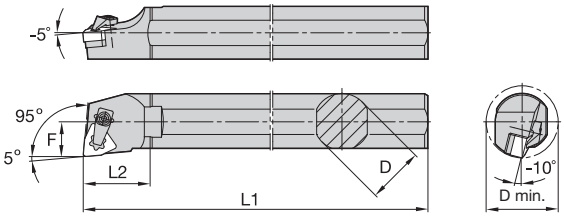


Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	L1A	Ayar ucu	Altlık	Altlık vidası	Altıgen	Baskı plakası	Bağlama grubu	Altıgen
Sağ yönlü														
1245016	**S40T-CSYNR12-MN7**	40	55,0	27,0	300	67,0	1,0	SN.N120708	**552.232**	**554.252**	2.5 mm	**557.111**	**551.317**	4 mm

NOT: MN — bağlama çeşidi gösterilmektedir.
Ana tutucu ayrı olarak sipariş verilebilir:
S40T-V.SYN R/L 08



İçten soğutmalı çelik şaft.



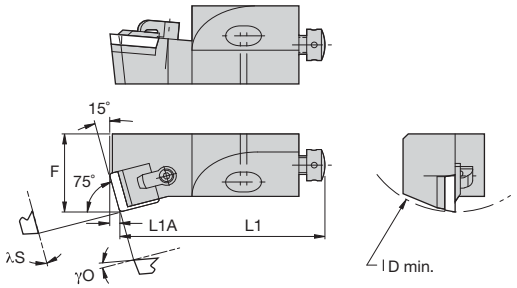
S-CWLN 95° • MX



Sipariş numarası	Katalog numarası	D	D min.	F	L1	L2	γF°	Ayar ucu	Altlık	Altlık vidası	Altıgen	Bağlama grubu	Altıgen
Sol yönlü													
1873496	**S40T-CWLNL08-MX7**	40	80,0	27,0	300	55,0	-10.0 deg	WN.X080708	**552.210**	**554.252**	2.5 mm	**551.316**	4 mm

NOT: Ana tutucu ayrı olarak sipariş verilebilir:
S40T-V. WLN R/L 12





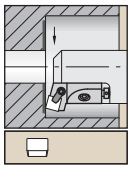
CSKP 75°

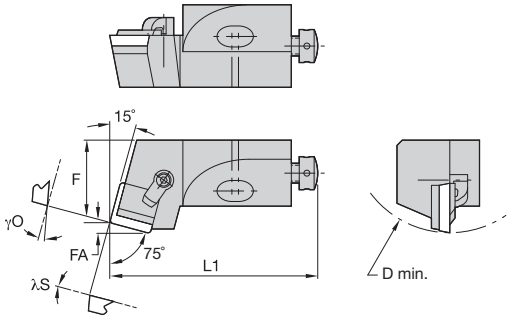
Sipariş numarası	Katalog numarası	D min.	F	L1	L1A	λS°	γO°	Ayar ucu
Sağ yönlü								
1261328	**CSKPR12CA12**	50	20,0	55	3,1	0.0	5.0	SP..120308/SP..422

Yedek parçalar



D min.	Altlık	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
50	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**191.406**	4 mm	**CSWM 060 050**





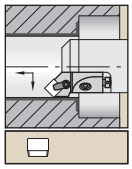
CSRP 75°

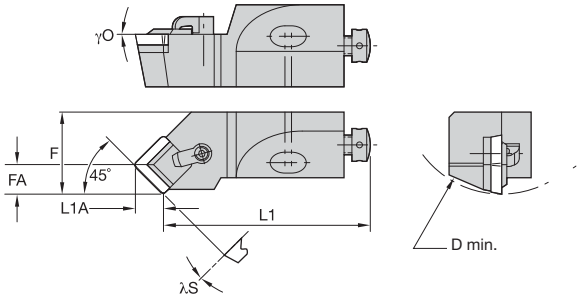
Sipariş numarası	Katalog numarası	D min.	F	L1	FA	λS°	γO°	Ayar ucu
Sağ yönlü								
3331132	**CSRPR10CA09**	40	14,0	50	2,2	0.0	0.0	SP..090308/SP..322

Yedek parçalar



D min.	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
40	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**





CSSP 45°

Sipariş numarası	Katalog numarası	D min.	F	L1	FA	L1A	λS°	γO°	Ayar ucu
Sağ yönlü									
1261379	**CSSPR10CA09**	40	14,0	44	6,5	6,1	0.0	0.0	SP..090308/SP..322
Sol yönlü									
3331143	**CSSPL10CA09**	40	14,0	44	6,5	6,1	0.0	0.0	SP..090308/SP..322

NOT: Seçilen D min.ve kesici uç ölçüsüne göre yedek parçalar seçilir.

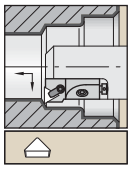
Yedek parçalar

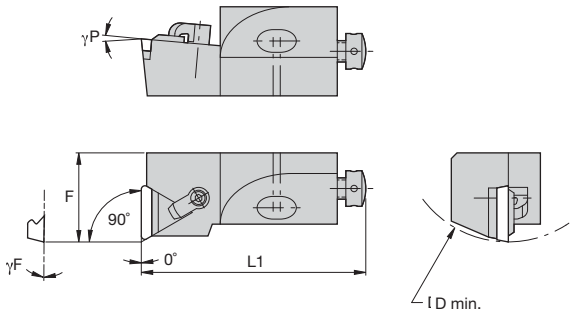







D min.	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Altıgen	Yaylı halka
40	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	4 mm	**CSWM 060 050**

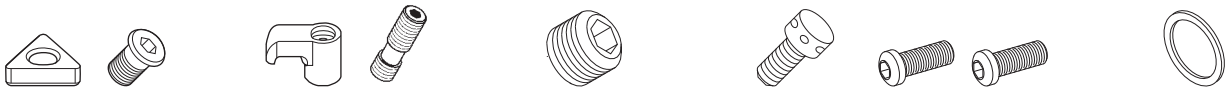




CTFP 90°

Sipariş numarası	Katalog numarası	D min.	F	L1	γF°	γP°	Ayar ucu
Sağ yönlü							
2116588	**CTFPR10CA11**	40	14,0	50	0.0	5.0	TP..110304/TP..221
1746442	**CTFPR12CA16**	50	20,0	55	0.0	5.0	TP..160308/TP..322
2582207	**CTFPR20CA22**	70	25,0	70	0.0	5.0	TP..220408/TP..432
Sol yönlü							
2114034	**CTFPL10CA11**	40	14,0	50	0.0	5.0	TP..110304/TP..221

Yedek parçalar



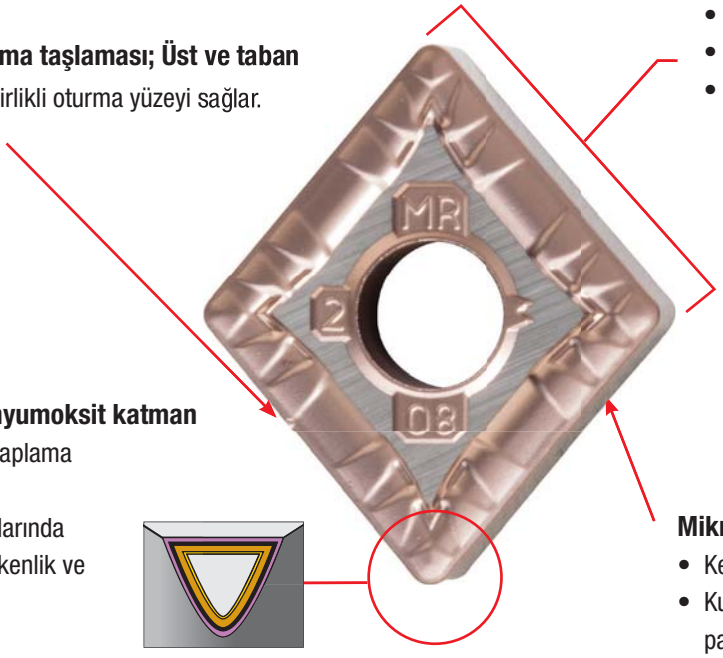
D min.	Altlık	Altlık vidası	Altıgen	Çene	Sıkma vidası	Altıgen	Radyal ayarlama vidası	Altıgen	Eksenel ayarlama vidası	Montaj vidası	Montaj vidası	Altıgen	Yaylı halka
40	**–**	**–**	–	**CKM34**	**STCM38**	2 mm	**KUAM28**	2 mm	**KUAM30**	**191.405**	**–**	4 mm	**CSWM 060 050**
50	**–**	**–**	–	**CKM34**	**STCM38**	2 mm	**KUAM22**	2 mm	**KUAM31**	**–**	**191.406**	4 mm	**CSWM 060 050**
70	**SM837**	**MS125**	2.5 mm	**CKM35**	**STCM8**	4 mm	**KUAM25**	2.5 mm	**KUAM32**	**–**	**191.407**	5 mm	**CSWM 080 050**

Beyond™ Drive™ Kesici uçlar

- Verimlilik artışına yönelik tasarlanmıştır.
- Kaplama sonrası işlem gerilimini azaltır, kaplama yapışkanlığını iyileştirir.
- Mükemmel tokluk ve aşınma direnci.
- Daha iyi aşınma algılaması.

Kaplama sonrası işlem
- Kenar tokluğunu iyileştirir.
- Öngörülebilir uzun takım ömrü.
- Kesme derinliği çentiklerini azaltır.
- Geniş uygulama alanı.

Ön kaplama taşlaması; Üst ve taban
- Güvenilirlikli oturma yüzeyi sağlar.



İnce taneli Alüminyumoksit katman
- Yüksek hızlarda kaplama bütünlüğü sağlar.
- Yüksek kesme ısılarında daha yüksek üretkenlik ve güvenilirlik.

TiN/MT-TiCN/TiCN/Al_2O_3/TiOCN

Mikro parlatılmış kesme kenarları
- Kenar tokluğunu iyileştirir.
- Kuvvetleri, sürtünmeyi ve iş parçası yapışmasını azaltmak için düz hassas dış yüzey sağlar.

Yetkili Kennametal bayisindeki ya da **kennametal.com** adresindeki avantajlardan yaralanın.

KENNAMETAL®

kennametal.com

Ayarlanabilir delik işleme baraları

Alın sonu bağlamalı KM™ Quick-Change “Hızlı değiştirme” adaptörü ile birlikte.

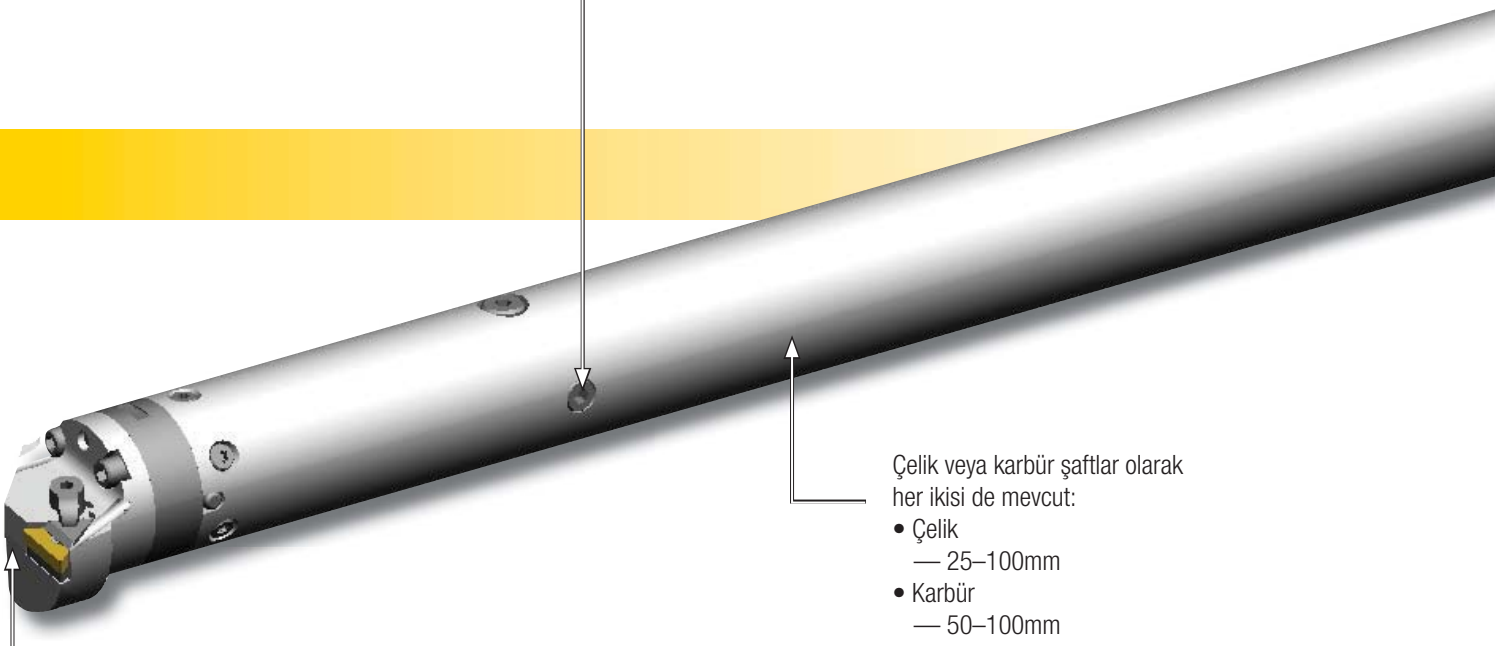
KM hızlı değiştirme kafaları ve ayarlanabilir delik işleme baraları ile derin delik işleme uygulamalarında titreşimleri azaltır ve verimliliği arttırır.

Özellikler, İşlevler ve Faydalar

Özellikler	Islev	Faydalar
Saglam ve dayanıklı içten baglamalı uç yuvası	• Kavrama titremesini ve salınım titresimini ortadan kaldırır. • Daha yüksek talas kaldırma oranı. • Daha derin kesme derinlikleri.	• Yüksek yüzey kalitesi. • düşük hurda oranı. • Artan verimlilik. • Gürültü olusumunu engelleme.
Ayarlanabilir baglama mekanizması	Delik isleme barası tezgah üstünde sadece bir vida döndürülerek ayarlanabilir.	Her türlü isleme kosulları için en uygun duruma getirilmis sönümleme özellikleri.
Ön uçlu KM™ Hızlı degistirme adaptörü	• Sırttan yivli baglama sistemi. • KM Hızlı degistirme özellikli kesme ünitelerinden olusan seçenekli genis ürün programı.	Esnek sistemler takımlama maliyetini düsürür ve ayar süresini azaltır.

Kennametal tarafından varolan ayarlanabilir delik işleme barası ürün grubunda yapılması öngörülen bir dizi önemli iyileştirmeler:

- Baralar, üretim tesisinde standartlaştırılmış ayarlama sürecinde hassasiyet açısından maksimum bağlantı boyuna bağlı olarak ayrıntılı belirlenen ayarlama işlemi yapılarak sevk edilmesi.
- Talaş erozyonunu ortadan kaldırmak için nitrasyonlu çelikten ayarlanabilir delik işleme baralarının kullanımı.
- Ayarlanabilir delik işleme baralarında düz yüzeylerin ortadan kaldırılması kararlılığını artırmakta ve takımın doğru bağlanmasını sağlamaktadır.
- Merkezleme özellikli bir takımın kullanılmasına olanak sağlayan bağlantı flanşına kısa düz bir yüzeyin eklenmesi.
- Geliştirilmiş montaj işlemi.



Ayarlanabilir delik işleme baraları

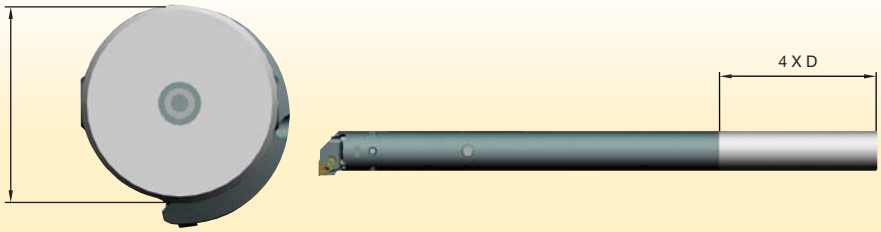
- **YENİ** Tüm ayarlanabilir delik işleme baraları üretim aşamasında ayarlanır ve müşteriye bara belirlenen maksimum bağlama boyunda ayarı yapılmış olarak teslim edilir.
- **YENİ** Tüm ayarlanabilir çelik delik işleme baralarına artık nitrürleme işlemi uygulanmaktadır. Bu iş süreci barada talaş erozyonunu ortadan kaldırmaya yardımcı olur ve baranın kullanım ömrünü uzatır.
- Ayarlanabilir siyah oksitli çelik delik baralarının nitrürleme süreci şaft yüzeyinde mavimsi bir renk değeri oluşturur. Bu baralar içten soğutmalı özelliğe sahiptir ve üstten vida bağlantılı kafalar veya KM™ Quick Change "Hızlı değiştirme" adaptörleri ile kullanılır. Barayı ayarlamak için bir ayar vidası bulunur.
- Karbür şaftlı ayarlanabilir delik işleme baraları gri renkte görünüme sahiptir. Bu baralar içten soğutmalı özelliktedir ve KM Quick Change "Hızlı değiştirme" adaptörleri ile kullanılır. Barayı ayarlamak için bir ayar vidası bulunur.

Uygulama önerileri

- Mümkün olduğunca büyük bir delik işleme barası seçilmeli, ancak talaş boşaltma için yeterli alana sahip olduğundan emin olunmalıdır.
- Kontrol edilemeyen titreşimleri önlemek için işleme ayarları dengelenmelidir.
- Mümkün olduğunca Boy/Çap oranının küçük olması sağlanır.
- Bara önceden ayarlanmış olarak sevk edilir, ancak elle de ayarlanabilir.

1 Baranın bağlanması

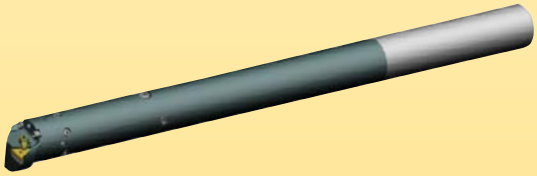
- Bara doğru şekilde tutulur. Kennametal, bağlama boyunu 4 x D olarak önermektedir.

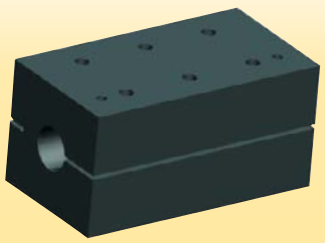


2 Kennametal, delik işleme barasının gerektiğinde ISO H7 çap toleransına sahip bir kertikli tip kısaltma adaptörlü kertikli (konik) tip tutucunun içinde bağlanmasını önerir.

3 YENİ: Tüm düz yüzeyler ayarlanabilir çelik delik işleme baralarından kaldırılmıştır.

- Delik işleme baralarının ayar vidalarıyla bağlanması önerilmez.
- Kennametal, delik delme barası doğru şekilde bağlamazsa performans garantisi vermez.



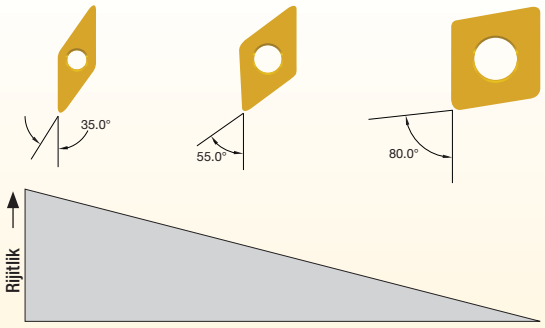


4 Kennametal ayarlanabilir delik işleme baraları maksimum bağlantı boylu tasarlanmış ve ön ayar yapılmıştır.

- Çelik delik işleme baraları 10 x D olarak ön ayar yapılmış olup, ancak daha düşük 6 x D olarak kullanılabilir.
- Karbür bileşikten delik işleme baraları: 15 x D olarak ön ayar yapılmış olup, ancak daha düşük 12 x D olarak kullanılabilir.
- Delik işleme barası ön ayar yapılmaksızın maksimum bağlama boyunda kullanıldıysa yeniden ayarlanması gerekebilir.
- Delik işleme barası, minimum ölçü altında asla bağlanmaz ve işlem yapılmaz.

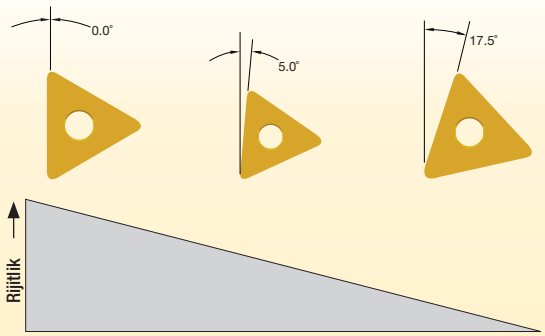
5 Kesici uç açısı

- Daha küçük uç açıları, çok daha kararlı talaş oluşumu sağlar ve daha iyi talaş boşaltma için delik boşluğunu iyileştirir.
- Daha geniş uç açıları, sürtünme sonucunda titreşime neden olabilen büyük bir kesme kenarına sahiptir.



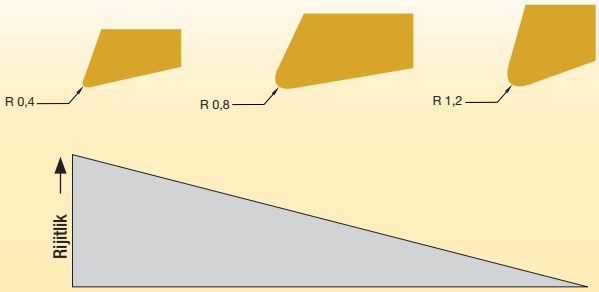
6 Yaklaşma açısı

- Rijitliği artırmak için 90°' ye olabildiğince yakın bir yaklaşma açısı seçilir.



7 Köse radyüsü

- Daha iyi rijitlik için küçük köse radyüsü seçilir.
- Kesme derinliği köşe radyüsünden büyük olmalıdır.



8 Kesici uç geometrileri

- Azaltılan kesme kuvvetleri için pozitif, kolay akış sağlayan kesici uç geometrileri kullanılır ve keskin kenar hazırlığı uygulanır.
- Azaltılmış kaplama kalınlığı kenar hazırlığını daha az koruduğundan PVD kesici uçlar ilk tercih edilendir.

9 Merkez kesme yüksekliği

- Kesme yüksekliği toleransları +/-,005" değerindedir.
- Kennametal yeni merkez yüksekliği hizalama takım kitimizin kullanılmasını önerir. Bu kit bir mıknatıs, bir açılı yatak ve bir açı bulucu parçalardan oluşur. Bu düzenek, ayarlanabilir delik işleme barası bağlantı flanşında bulunan düz dar bir yüzey üstünde monte edilir.

10 Talaş boşaltma

- Talaş birikimi ve yeniden kesme delik delme sırasında istenmeyen titreşimlere neden olabilir.
- Talaşları boşaltma ve titreşim sönümleme düzeneğini soğutmak için soğutma sıvısı kullanılır.
- Kesici uç geometrileri ve kısa talaşlar oluşturan kesme parametreleri kullanılır.
- Talaş boşalmasını iyileştirmek için delik işleme barası baş aşağı kullanılabilir.

Ayarlama önerileri

- Barada bulunan iki kilitleme vidası gevşetilir.
- Vidanın serbestçe dönüşü durana ve kütle kilitli iyi bir alt konuma gelene kadar saat yönünde ayar vidası çevrilir.
- Artık bara ayarlanmak için hazır durumdadır.
- Ayarlama vidası ters saat yönünde çeyrek turluk artışlarla döndürülür.
- Ayar işlemi tamamlandıktan sonra kilitleme vidası sıkıştırılır.

Kennametal Ayarlanabilir delik işleme barası merkez yüksekliği hizalama yöntemi

Aşağıda belirtilen yöntem, şafttaki flanşı kullanmadan bir ayarlanabilir delik işleme barasının merkezde yukarıya doğru kurulumu ile kullanıcıya yol gösterir.

Donanım

- Dijital açı bulucu
- Açı ayar yatağı
- Kullanılacak delik işleme barası



Şekil 1: Açı ayar yatağı (solda) ve dijital açı bulucu (sağda)

Düzenek

- Dijital açı bulucu montaj yüzeylerinde ve dijital açı bulucu bağlama flanşı kısa düz yüzeyinden her tür kir, talaş, artıklar, vb. temizlenir.
- Dijital açı bulucunun, açı ayar yatağının arka tarafına ters şekilde aynı hizada olduğundan emin olunduktan sonra açı bulucu, açı ayar yatağına monte edilir.

Kalibrasyon

- Kalibrasyon için bir referans yüzeyi oluşturmak üzere torna tezgahının x ekseni alanı temiz olmalıdır.
- Açı ayar yatağının altındaki mıknatıstan her tür kir, talaş, atık vb. temizlenmelidir.
- Torna tezgahının x eksenine açı bulucu düzenek yerleştirilir.
  - — Açı bulucu eksene paralel tutularak monte edilir.
  - — Açı bulucuyu z eksenine paralel tutmak için taret gövdesine dayalı olarak bitiştirerek monte etme.
- Açma ve kapama düğmesine basılarak dijital açı bulucu çevrilir.
- Sıfır düğmesine basılarak dijital açı bulucu sıfırlanır.

NOT: Açı bulucu sadece torna tezgahının x eksenini kalibre etmenin yanı sıra bu eksenle ilgili açıları ölçmeyi hedefler.



Şekil 2: X ekseni kalibrasyonu

Delik işleme barasını hizalama

- Delik işleme barası ile önceden tutucunun içine yerleştirilmiştir ve bağlama boyu doğru şekilde ayarlanır, her tür kir, talaş, atık vb. delik işleme barası flanşının kısa düz yüzeyinden temizlenir.
- Açı bulucu düzenek delik işleme barasının içine yerleştirilir, küçük mıknatıs yardımıyla montajın alt tarafında delik işleme barasının kısa düz yüzeyli flanşı üstünde hizalanır.
  — Açı bulucu düzeneğinin delik işleme barasının eksenine dik konumda olduğundan emin olunmalıdır.
  — Torna tezgahının x eksenine göre kalibrasyon yapıldığında bu şekilde ayarlanmış olduğundan açı bulucu montajının aynı yönde konumlandırıldığından emin olunmalıdır.



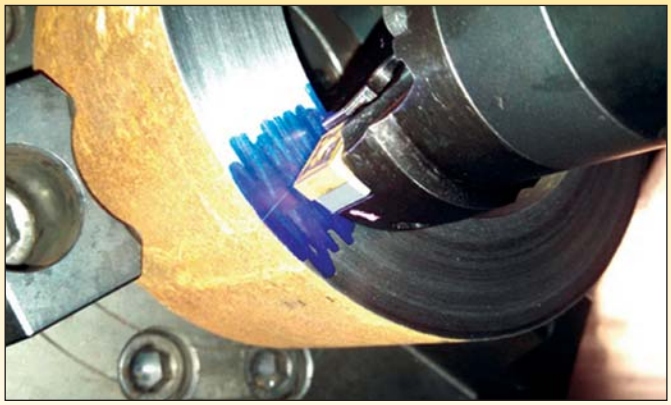
Şekil 3: Delik işleme barası düz yüzeyli flanşı

- Dijital açı bulucu göstergesinde sıfır derece okunana kadar delik işleme barası döndürülür.



Şekil 4: Delik işleme barasını hizalama

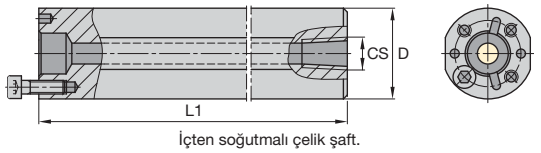
- Delik işleme barasının konumunu kilitlemek için delik işleme barası tutucusu sıkıştırılır.
  — Baranın bağlanmasından sonra dijital açı bulucu göstergesinde hala sıfır okunduğundan emin olunmalıdır.
- Delik işleme barasının artık merkezde olması gerekir.



Şekil 5: Delik işleme barası merkez yüksekliği

Kennametal Merkez yüksekliği hizalama takım kiti siparişi

Merkezi yüksekliği hizalama takım kiti sipariş edilebilir. Sipariş numarası 6141867'yi veya katalog numarası KIT-BB-AF kullanılır.

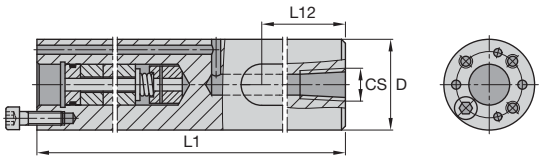


İçten soğutmalı çelik şaft.
Maks 4:1 Bağlama boyu oranı.



BS

Sipariş numarası	Katalog numarası	D	L1	CS	Vida 3 adet gerekir	Vida	Altıgen
1098078	**BS32S**	32	210	RP3/8	**MS412**	**MS330**	4 mm
1098079	**BS40T**	40	260	RP3/8	**MS412**	**MS330**	4 mm
1098080	**BS50U**	50	310	RP3/8	**MS337**	**MS339**	5 mm

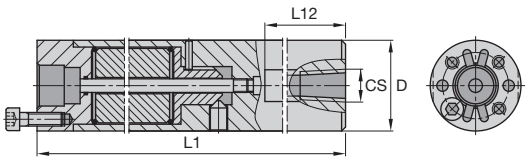


İçten soğutmalı, titreşim sönümle düzenekli çelik şaft
Maks 6:1 Bağlama boyu oranı.



BSD

Sipariş numarası	Katalog numarası	D	L1	CS	L12	L1 min	Vida 3 adet gerekir	Vida	Altıgen
1098150	**BSD32U**	32	310	RP3/8	200	200	**MS330**	**MS412**	4 mm
1098151	**BSD40V**	40	360	RP3/8	248	228	**MS330**	**MS412**	4 mm
1098152	**BSD50W**	50	410	RP3/8	280	276	**MS339**	**MS337**	5 mm

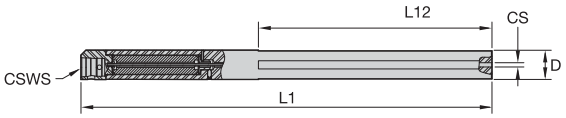


İçten soğutmalı ayarlanabilir çelik şaft.



D...TTB

Sipariş numarası	Katalog numarası	D	L1	CS	L12	L1 min	Vida 3 adet gerekir	Vida	Altıgen
1772222	**D25MTTB400**	25	381	RP1/4	203	227	**MS1499**	**MS319**	3 mm
1772223	**D32MTTB447**	32	422	RP3/8	267	332	**MS325**	**MS1130**	4 mm
1772224	**D40MTTB530**	40	492	RP3/8	305	300	**MS326**	**MS330**	4 mm
1772230	**D50MTTB700**	50	670	RP3/8	470	309	**MS337**	**MS337**	5 mm

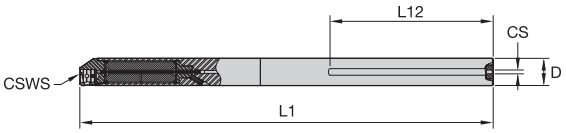


İçten soğutmalı çelik şaft ve alın sonu
KM™ Hızlı değiştirme adaptörlü bağlama ünitesi



D...TTB-KM • Metrik

Sipariş numarası	Katalog numarası	D	L1	CS	L12	L1 min.	CSWS Sistem ölçüsü
3637636	**D40MTTB560KM40**	40	520	RP 3/8-19	305	330	KM40
3637637	**D50MTTB737KM40**	50	697	RP 3/8-19	470	337	KM40
3637638	**D60MTTB1000KM40**	60	976	RP 3/8-19	686	396	KM40
3642134	**D80MTTB1120KM63**	80	1060	RP 3/8-19	610	560	KM63
3642135	**D100MTTB1330KM63**	100	1384	RP 3/8-19	622	695	KM63



KM™ Hızlı değiştirme bağlantılı karbür ayarlanabilir delik işleme barası.



G-TTB-KM • Metrik

Sipariş numarası	Katalog numarası	D	L1	CS	L12	CSWS Sistem ölçüsü
3954298	**G50MTTB1026KM40**	50	986	RP 3/8-19	300	KM40
3954300	**G80MTTB1564KM63**	80	1504	RP 3/8-19	480	KM63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MADE IN INDIA

Kanal açma ve Kesme-Dilimleme

Beyond Evolution • Kanal açma, Tornalama ve Kesme-Dilimleme C2–C77

Uygulama kuralları C76–C77

A4 Kanal tornalama ve Tornalama C78–C135

Top Notch • Sığ kanal açma C136–C179

Uygulama kuralları C172–C179

EASY ile kolay başlangıç

beyond™ EVOLUTION™

EASY ile memnun kalın

Doğru takımlama uygulamasını seçmek karmaşık ve zaman alıcı olabilir. Basitliği temel alarak, her makine operatörünün hayatını EASY ile kolaylaştıran yeni bir takım geliştirdik.

Kennametal, performans veya uygulama arasında tercih yapmak zorunda kalmayan Beyond™ Evolution™ takımını sunuyor.

Beyond™ Evolution™, çok yönlü tornalama işlemi de gerçekleştiren, yeni bir tek taraflı kanal açma ve kesme-dilimleme takımıdır.

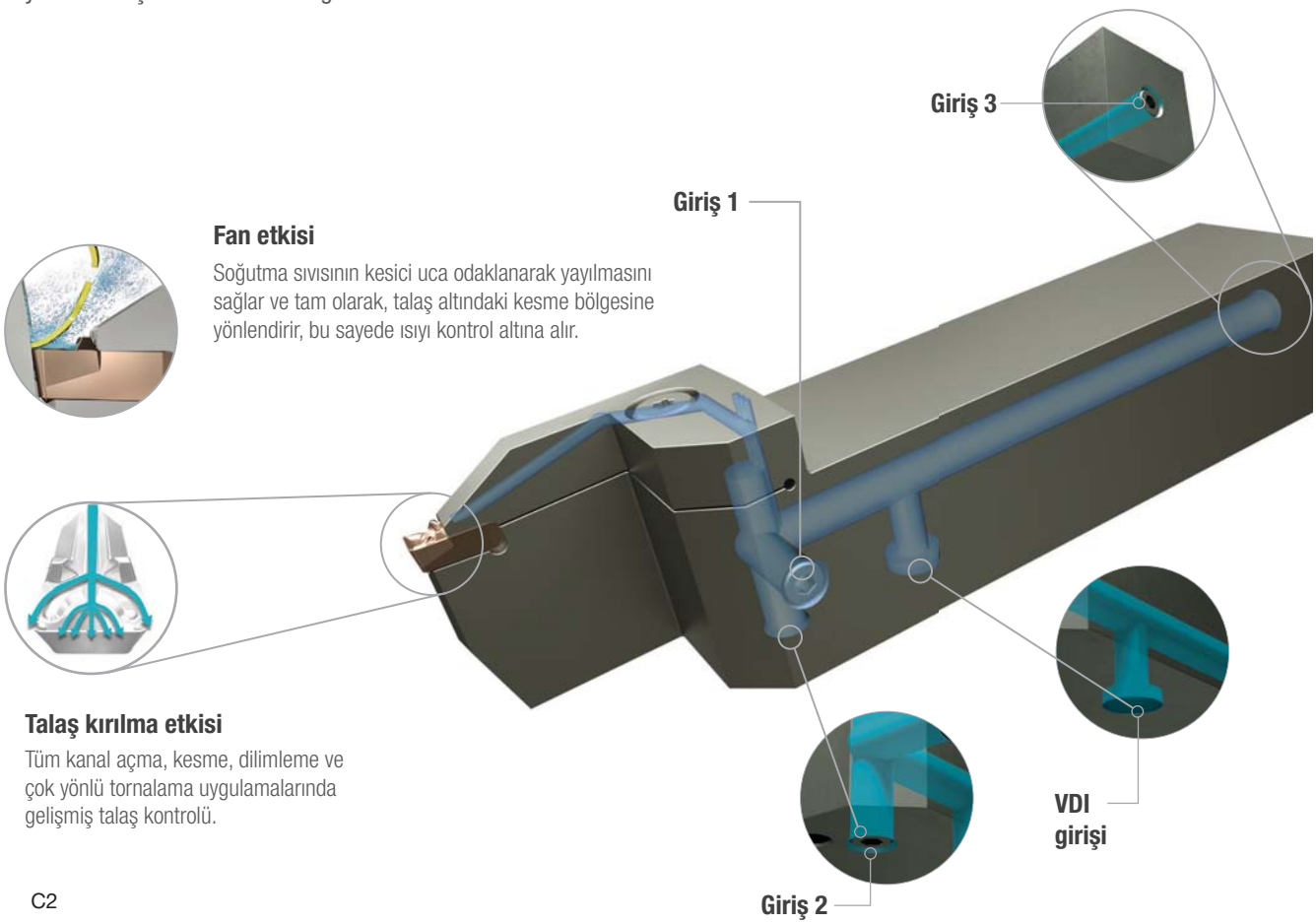
- Alına kanal açma
- Kenar tornalama
- Kanal açma
- Pah kırma
- Derin kanal açma
- Profil işleme
- Kesme ve dilimleme
- Alın tornalama

EASY ile verimlilik

Etkin soğutma sıvısı kontrolü

Soğutma sıvısı besleme sisteminiz piyasadaki ortalama düzeydeyse, kesme kenarına düşündüğünüzden daha fazla ısı uyguluyor olabilirsiniz. Bu durum takım ömrünü kısaltır ve çevrim süresini artırır.

Beyond™ Evolution™ ile mevcut donanımızı değiştirmek zorunda kalmayacaksınız. İster yüksek basınçlı ister düşük basınçlı soğutma sıvısı beslemesi kullanın, etkin soğutma sıvısı kontrolüne sahip Beyond™ Evolution™ takım ömrünü uzatır ve yüksek talaş kaldırma oranı sağlar.



Fan etkisi

Soğutma sıvısının kesici uca odaklanarak yayılmasını sağlar ve tam olarak, talaş altındaki kesme bölgesine yönlendirir, bu sayede ısıyı kontrol altına alır.

Talaş kırılma etkisi

Tüm kanal açma, kesme, dilimleme ve çok yönlü tornalama uygulamalarında gelişmiş talaş kontrolü.

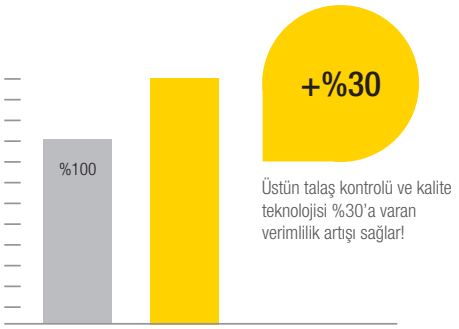
EASY ile pürüzsüz yüzey kalitesi

Üçlü V Yuva

Sorun: Geleneksel tek taraflı kanal açma ve kesme-dilimleme sistemleri, yeterli dayanıklılığa sahip olmadığından pürüzsüz yüzey kalitesi sağlayamaz.

Çözüm: Beyond™ Evolution™'ın özel yeni üçlü V yuva özelliği işlevsel rijitliği sağlar ve titreşimi en aza indirir.

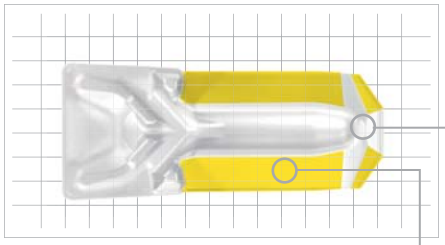
Üç temaslı yüzeyler benzersiz sürdürülebilir bir dayanıklılık sağlar: GUP ve CF talaş kırıcılarla birlikteliğinde üçlü V yuva mükemmel bir yüzey kalitesi sağlar.



Üstün talaş kontrolü ve kalite teknolojisi %30'a varan verimlilik artışı sağlar!

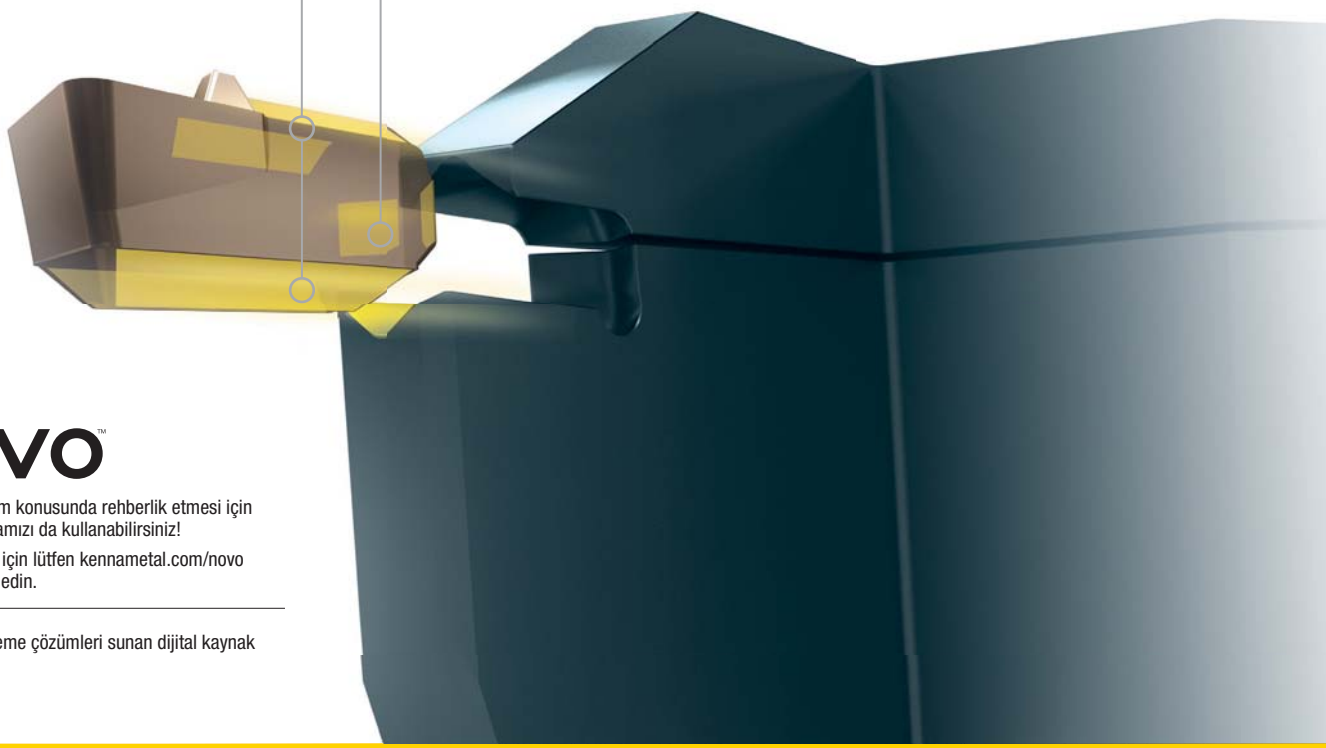
EASY ile tasarruf

Etkin soğutma sıvısı kontrollü üçlü V yuvası özelliğine ve aşınma algılama teknoljisine sahip Beyond™ Drive™ kaliteli Beyond™ Evolution™ uzun takım ömrü, maksimum sürdürülebilir dayanıklılık ve yüksek talaş kaldırma oranı sağlar, bu da %30'a varan verimlilik artışıyla sonuçlanır.



Üst ve taban V
Artan rijitlik ve ölçü hassasiyeti için hassas ve güvenilirlikli kesici uç konumlandırma.

Arka V tasarımı
Mükemmel kanal açma, kesme-dilimleme ve çok yönlü tornalama baskı kararlılığı.



NOVO™

Size doğru seçim konusunda rehberlik etmesi için NOVO uygulamamızı da kullanabilirsiniz!

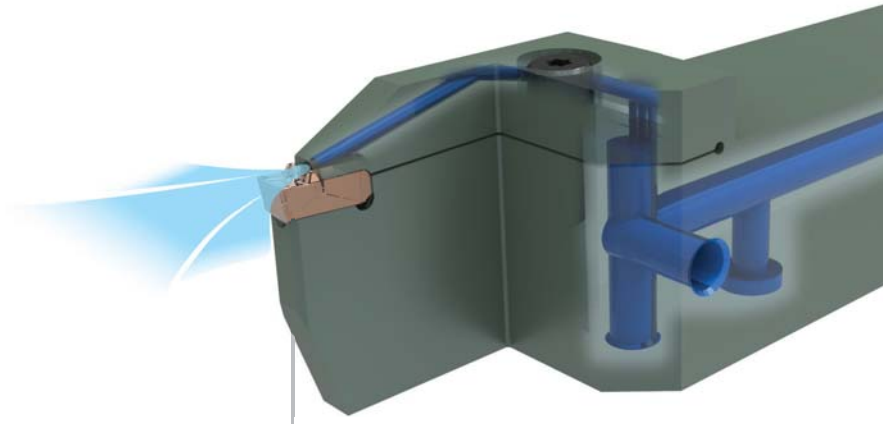
Daha fazla bilgi için lütfen kennametal.com/novo adresini ziyaret edin.

NOVO: Akıllı işleme çözümleri sunan dijital kaynak

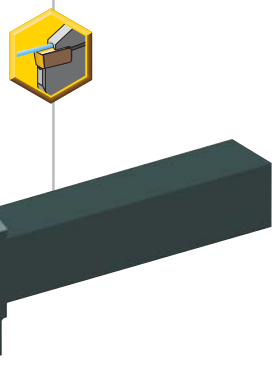
EASY ile memnun kalın

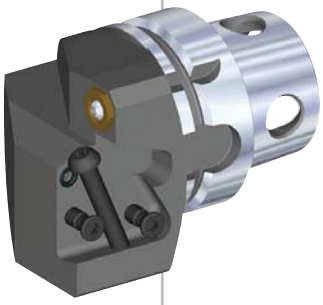


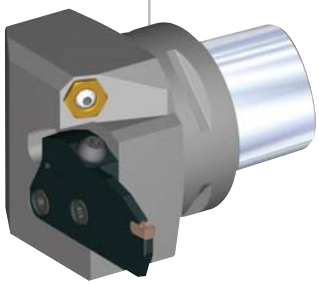
Etkin soğutma sıvısı beslemesi. 3 ve üzeri yuva ölçüsünde mevcut.

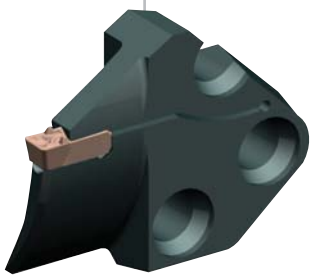


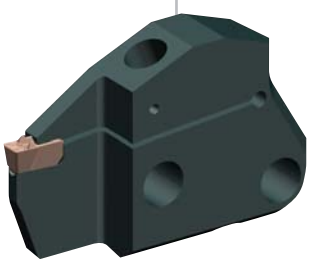
İçten soğutmalı modüler











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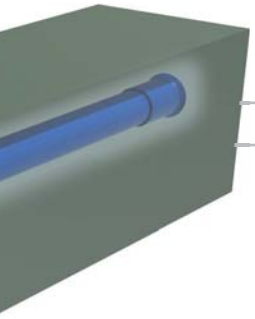
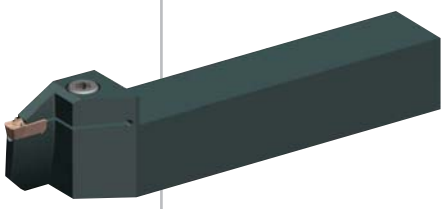
yüksek performanslı sistem.



İçten soğutmalı alına kanal açma

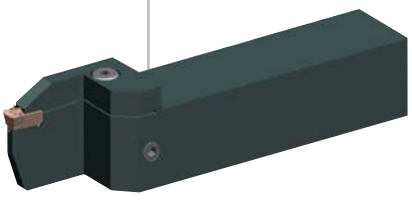


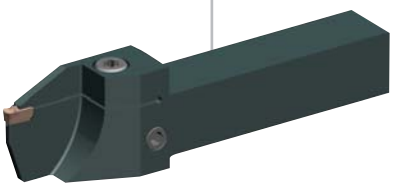
İç çap delik işleme barası



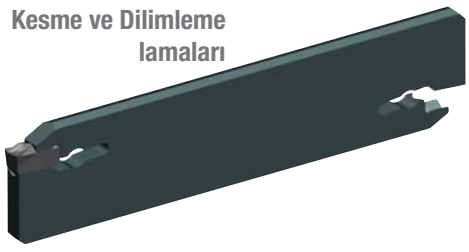


İçten soğutmalı kare kesitli şaft





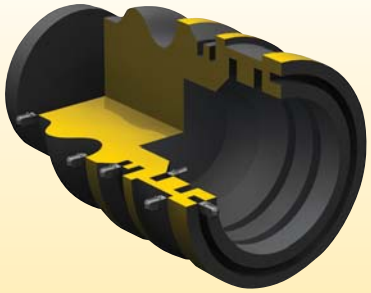
Kesme ve Dilimleme lamaları



Adım 1 • Kanal açma veya kesme ve dilimleme uygulaması belirlenir

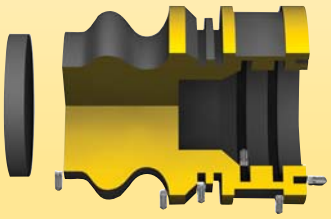
Bilinmesi gerekenler:

- Kanal derinliği, genişliği ve profil.
- İşlenecek olan malzeme.
- Yapılacak uygulama dış çap ve iç çap kanal açma, tornalama, alına kanal açma ve kesme-dilimleme.
- Tezgahın şaft ölçüsünün gerektirdikleri.



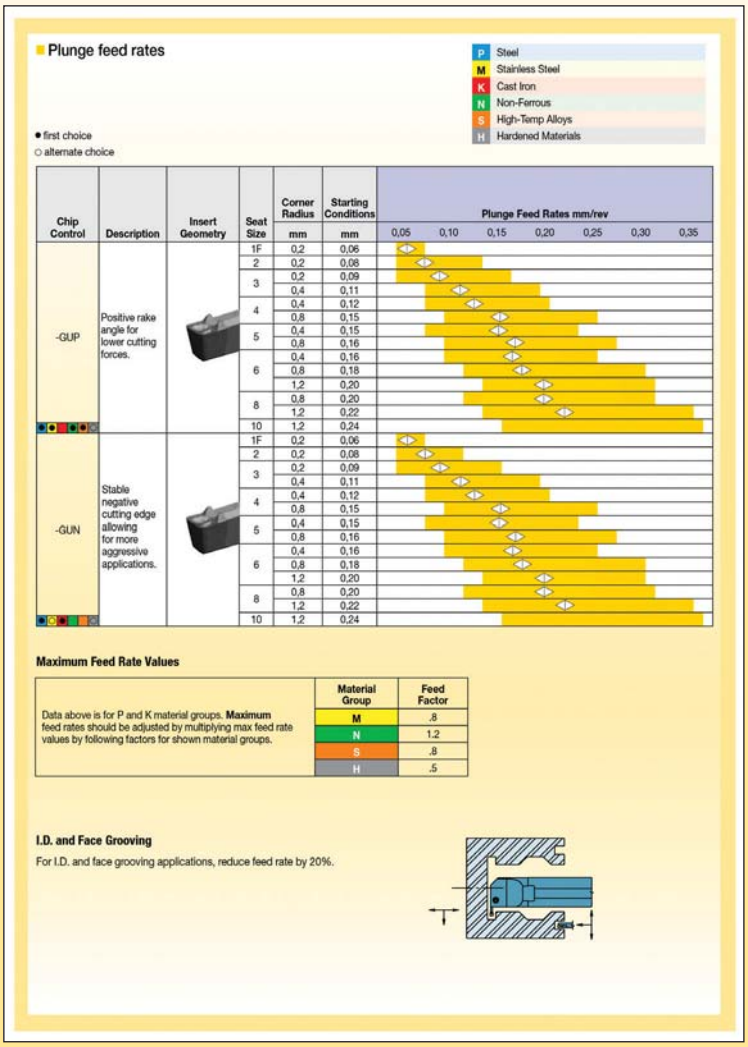
Kesici uç ölçüsünün seçimi için genel öneriler

Uygun olan iş parçası çapları	Kesici uç yuva ölçüsü
<25mm	3
25–50mm	4
>50mm	5–10



Adım 2 • Talaş kırıcı tipinin ve ilerleme oranının seçilmesi

Uygulama ve yuva ölçüsüne bağlı olarak, önerilen geometri ve başlangıç ilerleme oranları saptanır.



Plunge feed rates

P Steel
M Stainless Steel
K Cast Iron
N Non-Ferrous
S High-Temp Alloys
H Hardened Materials

• first choice
○ alternate choice

Chip Control	Description	Insert Geometry	Seat Size	Corner Radius mm	Starting Conditions mm	Plunge Feed Rates mm/rev 0,05 0,10 0,15 0,20 0,25 0,30 0,35
-GUP	Positive rake angle for lower cutting forces.		1F	0,2	0,06	
			2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,8	0,20	
				1,2	0,22	
			10	1,2	0,24	
-GUN	Stable negative cutting edge allowing for more aggressive applications.		1F	0,2	0,06	
			2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,8	0,20	
				1,2	0,22	
			10	1,2	0,24	

Maximum Feed Rate Values

Data above is for P and K material groups. **Maximum** feed rates should be adjusted by multiplying max feed rate values by following factors for shown material groups.

Material Group	Feed Factor
M	.8
N	1.2
S	.8
H	.5

I.D. and Face Grooving

For I.D. and face grooving applications, reduce feed rate by 20%.

Adım 3 • Başlangıç hızının seçilmesi

Malzemeye ve kaliteye bağlı olarak başlangıç hızı (vc) tanımlanır. İlk tercih, **kalın harflerle** belirtilmiştir.

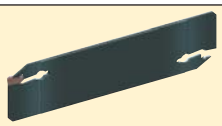
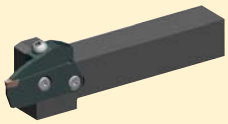
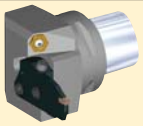
A Malzeme grubuna ve kaliteye bağlı olarak başlangıç hızı (vc) tanımlanır.
B İlk tercih başlangıç hızı **kalın harflerle** belirtilmiştir.

Recommended Starting Speeds [m/min]

Material Group		K313			KCU10			KCU25			KCM35B			KCP10B			KCP25B			
																				A
P	0–1	–	–	–	140	**280**	350	110	**225**	270	90	**180**	213	185	**400**	450	145	**290**	365	
	2	–	–	–	140	**200**	300	110	**160**	260	90	**130**	155	185	**270**	350	145	**200**	305	
	3	–	–	–	140	**155**	245	110	**125**	235	90	**100**	155	170	**190**	260	140	**155**	245	
	4	–	–	–	75	**110**	170	60	**90**	160	50	**70**	110	90	**145**	200	75	**110**	180	
	5	–	–	–	120	**200**	260	100	**160**	210	80	**130**	165	150	**220**	305	120	**200**	270	
	6	–	–	–	110	**150**	230	85	**120**	185	70	**100**	145	120	**180**	275	110	**150**	230	
M	1	60	**90**	120	140	**210**	280	90	**170**	245	75	**120**	135	–	–	–	–	–	–	
	2	45	**75**	110	120	**200**	245	90	**150**	245	75	**110**	135	–	–	B –	–	–	–	
	3	35	**65**	100	120	**180**	245	90	**140**	210	75	**90**	135	–	–	–	–	–	–	
K	1	30	**75**	120	120	**180**	245	100	**145**	225	–	–	–	170	**245**	440	140	**200**	360	
	2	25	**70**	110	90	**150**	240	70	**120**	170	–	–	–	120	**195**	340	100	**160**	280	
	3	20	**60**	90	60	**110**	150	50	**85**	120	–	–	–	120	**170**	270	100	**140**	220	
	1–2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	

Adım 4 • Uygulamaya bağlı olarak takım tutucunun seçilmesi

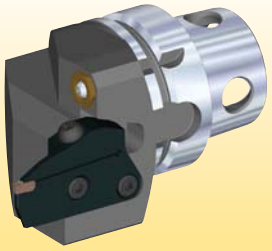
Özel kanal açma ve kesme-dilimleme uygulamanıza bağlı olarak, ilgili yuva ölçüsü ile birlikte yüksek performanslı tutucu seçilir.

Tipi		Uygulama
	**Delik işleme barası**	• İç çap kanal açma uygulamalarında kullanım için.
	**Kesme ve dilimle laması**	• Kullanıcının kesme derinliğini değiştirmesine olanak sağlar.
	**Kamalı takım tutucu; Tümleşik**	• Diğer tiplere göre en yüksek sürdürülebiilir dayanıklılığı sağlar.
	**Kamalı takım tutucu; Modüler**	• Çok yönlülük için birbiriyle değiştirilebilir lamalar.
	**KM™ — Modüler** **KM4X™ — Modüler**	• Sınıfının en iyisi KM Hızlı değiştirme gövdesi.
	**PSC — Modüler**	• PSC Hızlı değiştirme gövdesinde modüler sistem.

Adım 5 • Katalog sayfasından kesici uç ve tutucunun seçilmesi

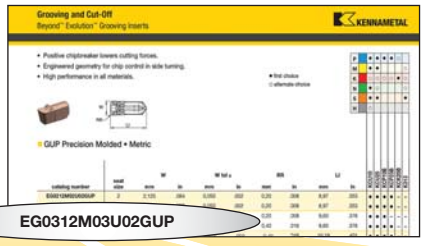
Tebrikler!

Uygulamanız için en iyi kesici uç geometrisi, kalitesi ve kesme özelliklerini seçerek, verimliliğinizi başarılı bir şekilde maksimum hale getirdiniz!



Katalog numaraları nasıl kullanılır?

Kataloğumuzda yer alan numara sistemindeki her bir karakter Kanal açma uçlarıyla ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



E	G	0312	M	03	U	02	GUP
Ürün grubu tanımı	Kesici uç tipi	Kanal genişliği	Birim	Yuva ölçüsü	Tolerans	Köşe radyüsü	Talaş kırıcı/ Kesici kenar durumu
Beyond™ Evolution™	**G** = Kare **R** = Tam radyüs	**Metrik** = 1/100mm **İnç** = 1/1000"	**M** = Metrik **I** = İnç		**U** = Hassas kalıplanmış **P** = Hassas taşlanmış		**GUP** = Kanal tornalama Genel kullanım amaçlı, pozitif **GUN** = Kanal tornalama Genel kullanım amaçlı, negatif **FB** = Düz uçlu, yarı mamul **PB** = Pozitif talaş kontrolü, yarı mamul

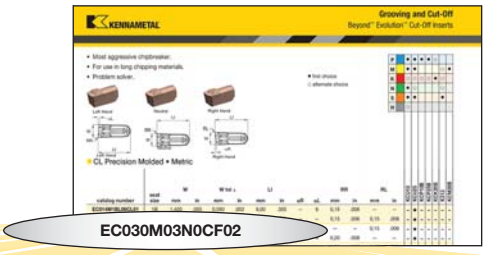
Yuva ölçüsü	Kanal genişliği	
	mm	inç
1B	1,40	.055
1F	1,60–1,99	.063–.078
02	2,00–2,99	.079–.117
03	3,00–3,99	.118–.156
04	4,00–4,99	.157–.196
05	5,00–5,99	.197–.235
06	6,00–7,99	.236–.314
08	8,00–8,99	.315–.353
10	9,00–10,12	.354–.398

*.312" = Yuva ölçüsü 08

mm	
00	Tüm radyüs
01	0,1
02	0,2
04	0,4
08	0,8
12	1,2

inç	
00	Tüm radyüs
05	.008
1	.016
2	.032
3	.047

Kullanımı kolay bu kılavuzu referans vererek, ihtiyaçlarınızı karşılayacak doğru ürünü tanımlayabilirsiniz.



EC030M03N0CF02

E	C	030	M	03	N	00	CF	02
Ürün grubu tanımı	Kesici uç tipi	Kesme kenarı genişliği	Birim	Yuva ölçüsü	Kesici uç yönü	Yaklaşma açısı	Talaş kırıcı	Köşe radyüsü

Beyond™ Evolution™

C = Kesme ve dilimleme

M = Metrik

I = İnç

N = Nötr

L = Sol yönlü

R = Sağ yönlü

00 = Nötr

06 = 6°

CL = Kesme ve dilimleme düşük ilerleme

CF = Kesme ve dilimleme hassas

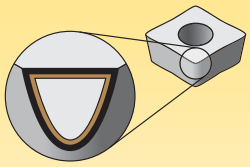
CM = Kesme ve dilimleme orta

CR = Kesme ve dilimleme kaba

Kesme kenarı genişliği	mm	inç
014	1,4	.055
020	2,0	.079
030	3,0	.118
040	4,0	.157
050	5,0	.197
060	6,0	.236
070	7,0	.279
080	8,0	.315

Yuva ölçüsü	mm	inç
1B	1,4	.055
1F	2,0	.079
02	3,0	.118
03	4,0	.157
04	5,0	.197
05	6,0	.236
06	7,0	.279
08	8,0	.315

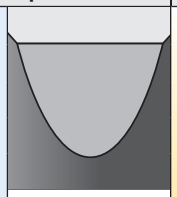
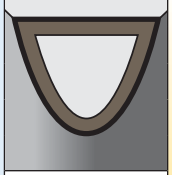
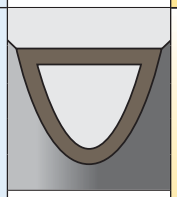
Köşe radyüsu	mm	inç
01	0,1	.004
02	0,2	.008
04	0,4	.016

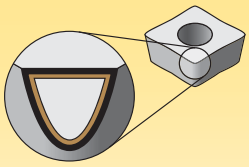


Kaplamalar yüksek hız yeteneği sağlar ve hassas son işlemeden hafif kaba işlemeye kadar olan uygulamalar için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Kaliteler

Kaplama	Kalite tanımı	Aşınma direnci → Tokluk: 05	10	15	20	25	30	35	40	45
K313  —	**Bileşim:** Sert, düşük baglayıcı içeriği, alaşımsız WC/Co ince taneli kalite. **Uygulama:** Titanyum, dökme demir, östenitik paslanmaz çelik, demir dışı metaller, metal olmayan malzemeler ve en yüksek ısıl dirençli alaşımları işlemede çok yüksek dayanıklılık ile olağanüstü kenar aşınma direnci. Üstün termal biçim değişimi direnci ve kesme derinliği çentik direncinin birleşimi. Tane yapısı, yüzey gerilimi açısından en küçük çukurları ve çatlakları iyi kontrol altına alır ve bu özellik uzun ve güvenilirlikli talaş kaldırma işlemine katkı sağlar.									
		M								
		K								
		N								
		S								
		beyond								
KCU10  —	**Bileşim:** Biçim değişimine çok dayanıklı alaşımsız karbür altyapı üzerine gelişmiş çok katmanlı PVD kaplama. Yeni ve iyileştirilmiş kaplama, çok çeşitli hız ve ilerleme kapasitesi ile sürdürülebilir kenar sağlamlığını iyileştirir. **Uygulama:** KCU10™ kalite, çok çeşitli hız ve ilerleme kapasitesinde çoğu iş parçası malzemesinin hassas son işlenmesi ve genel kullanım amaçlı işlenmesi için idealdir. İyileştirilmiş kenar tokluğu ve yüksek kesme hızı veya ilerleme kapasitesi ile çoğu çelik, paslanmaz çelik, dökme demir, demir dışı malzemeleri ve süper alaşımları işlemek için mükemmeldir.	P								
		M								
		K								
		N								
		S								
		H								
		beyond								
KCU25  —	**Bileşim:** Sert AlTiN kaplamalı ve ince taneli alaşımsız altyapılı gelişmiş PVD kalite. Yeni ve iyileştirilmiş kaplama, çok çeşitli hız ve ilerleme kapasitesi ile sürdürülebilir kenar sağlamlığını iyileştirir. **Uygulama:** KCU25™, darbeli kesme ve yüksek ilerleme hızları için gelişmiş kenar tokluğu ile çoğu çelik, paslanmaz çelik, ısıl dirençli alaşım, titanyum, demir ve demir dışı malzemeleri çok çeşitli hızlarda ve ilerlemelerde genel amaçlı işleme için idealdir.	P								
		M								
		K								
		N								
		S								
		beyond DRIVE™								



Kaplamalar yüksek hız yeteneği sağlar ve hassas son işlemeden hafif kaba işlemeye kadar olan uygulamalar için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

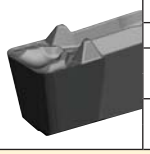
CVD Kaplamalı karbür kaliteler

Kaplama	Kalite tanımı	Aşınma direnci ← → Tokluk: 05 10 15 20 25 30 35 40 45
KCP10B	**Bileşim:** Üstün ara katman tutunmasına sahip yeniden tasarlanmış çok katmanlı MTCVD-TiCN-Al_2O_3-TiOCN kaplamalı özel olarak tasarlanmış aşınmaya dayanıklı karbür kalite. **Uygulama:** Çoğu çelik, ferritik, martensitik ve PH paslanmaz çelikler ve dökme demir dahil çeşitli iş parçası malzemeleri için hassas son işlemeden orta işlemeye kadar kullanılan mükemmel kalite. Kalın kaplama tabakaları yüksek hızda işleme için olağanüstü aşınma direnci ve krater aşınma direnci sağlarken, kobalt ile zenginleştirilmiş altyapı, dengeli bir biçim değişimi direnci ve kenar tokluğu birleşimi sunar. Düz pürüzsüz kaplama, kesme ağzında talaş yapışmasına ve mikro talaş oluşumuna karşı direnç gösterir ve mükemmel hassas son işlemeli yüzey kaliteleri sağlar.	P: 10 15 20 · K: 25 30 · beyond DRIVE
KCP25B	**Bileşim:** Üstün ara katman tutunmasına sahip yeni tasarlanmış çok katmanlı MTCVD-TiCN-Al_2O_3-TiOCN kaplamalı tok kobalt ile zenginleştirilmiş karbür kalite. **Uygulama:** Çoğu çelik ve ferritik ve martensitik paslanmaz çelik için en iyi genel amaçlı tornalama kalitesi. Altyapı tasarımı, mükemmel kesici uç kenar dayanıklılığı ile yeterli biçim değişikliği direnci sağlar. Kaplama tabakaları çok çeşitli işleme koşullarında iyi bir aşınma direnci sağlar ve kaplama sonrası işlemi mikro talaş oluşumunu en aza indirir ve kaplamanın altyapıya daha iyi tutunmasını ve dolayısıyla uzun takım ömrü ve gelişmiş hassas son işlemeli iş parçası elde edilir.	P: 25 30 35 · K: 30 35 40 · beyond DRIVE
KCK20B	**Bileşim:** Özellikle dökme demirler için tasarlanmış bir karbür yüzeyler üzerinde uygulanan kalın MT CVD TiCN-Al_2O_3-TiN katmanları ile bir katmanlı kaplama. **Uygulama:** Gri dökme demir ve dövülgen (düktil) demirleri yüksek hızda işlemede tutarlı bir performans sağlar. Altyapı tasarımı minimum biçim değişimi ile yüksek hızlarda kesici ucun uzun süre kesme eyleminde kalmasına izin verir. Kalın CVD kaplaması ve kaplama sonrası işleme, üstün aşınma direnci ve dolayısıyla, uzun ve tutarlı bir takım ömrü sağlar. Hem düz hem de hafif darbeli kesmelerde uygulanabilir.	P: 10 15 · K: 15 20 25 30 · beyond DRIVE
KCM35B	**Bileşim:** Son derece tok bir altyapı üzerinde çok katmanlı TiN-MT-TiCN-Al_2O_3-TiOCN CVD kaplama. **Uygulama:** KCM35B, tornalama ve kesme-dilimleme uygulamalarında paslanmaz çeliklerin işlenmesi ve çeliklerin kaba işlenmesinde mükemmel bir genel amaçlı kaba işleme kalitesidir. Kaplama tabakaları, aşınma algılaması ile birlikte yüksek kesme ısılarında gelişmiş aşınma direnci ve güvenilirlik sunarken, altyapı gelişmiş tokluk sağlar. Parlatılmış yüzey, kenar tokluğunu artırır ve kuvvetleri azaltmak ve düşük kesme hızlarında dahi kesme kenarında iş parçası talaş yapışmasını önlemek için pürüzsüz düz bir dış yüzey sağlar. Kalite, yüksek ilerleme ve geniş kesme derinlikleri için uygun çeşitli ölçü ve geometrilerde mevcuttur.	P: 35 40 45 · M: 30 35 40 · S: 30 35 · beyond DRIVE

Geometri seçme

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

● İlk tercih
○ Alternatif tercih

Talaş kontrolü	Tanım	Kesici uç geometrisi	Yuva ölçüsü	Köşe radyüsü in (mm)	Başlangıç koşulları in (mm)	Dalma için ilerleme oranları inç/dev. (mm/dev.) .0020 (0,05)	.0040 (0,10)	.0060 (0,15)	.0080 (0,20)	.0100 (0,25)	.0120 (0,30)
-GUP	Düşük kesme kuvvetleri için pozitif kesme açısı.		1F	.008 (0,2)	.0024 (0,06)	◇					
			2	.008 (0,2)	.0031 (0,08)	◇					
			3	.008 (0,2)	.0035 (0,09)	◇					
				.016 (0,4)	.0043 (0,11)	◇					
			4	.016 (0,4)	.0047 (0,12)	◇					
				.031 (0,8)	.0059 (0,15)	◇					

Talaş kontrollü geometri tanımı

Birincil iş parçası Malzeme grubu

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

● İlk tercih
○ Alternatif tercih

Resimli kesici uç görüntüsü

Yuva ölçüsü

Köşe radyüsü

Önerilen başlangıç ilerleme oranı

Önerilen ilerleme oranı aralığı

Dalma ilerleme oranları

Maksimum ilerleme oranı değerleri

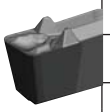
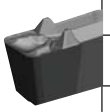
Yukarıdaki bilgi P ve K malzeme grupları içindir. **Maksimum** ilerleme oranları, ilerleme oranlarının diğer malzeme grupları için gösterilen faktörlerle çarpılmasıyla ayarlanmalıdır.

Malzeme grubu	İlerleme faktörü
M	.8
N	1.2
S	.8
H	.5

Dalma ilerleme oranları

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

● İlk tercih
○ Alternatif tercih

Talaş kontrolü	Tanım	Kesici uç geometrisi	Yuva ölçüsü	Köşe radyüsü mm	Başlangıç koşulları mm	Dalma için ilerleme oranları mm/dev. 0,05 – 0,10 – 0,15 – 0,20 – 0,25 – 0,30 – 0,35
-GUP	Daha düşük kesme kuvvetleri için pozitif talaş açısı.		1F	0,2	0,06	
			2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,8	0,20	
				1,2	0,22	
●●●●●○			10	1,2	0,24	
-GUN	Daha agresif uygulamalara olanak sağlayan rijit negatif kesme kenarı.		1F	0,2	0,06	
			2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,8	0,20	
				1,2	0,22	
●○●○○○			10	1,2	0,24	

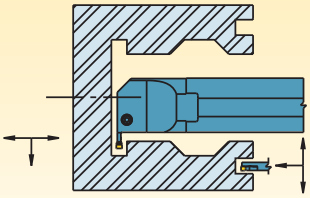
Maksimum ilerleme oranı değerleri

Yukarıdaki bilgi P ve K malzeme grupları içindir. **Maksimum** ilerleme oranları, ilerleme oranlarının diğer malzeme grupları için gösterilen faktörlerle çarpılmasıyla ayarlanmalıdır.

Malzeme grubu	İlerleme faktörü
M	.8
N	1.2
S	.8
H	.5

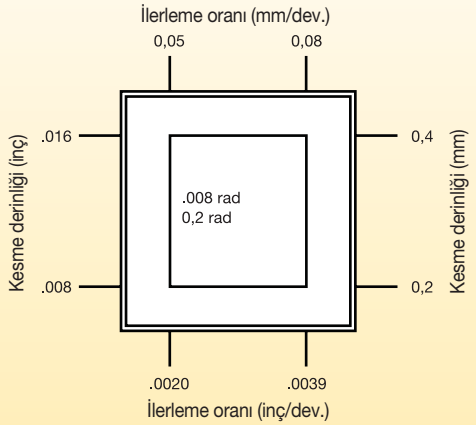
İç çapta ve alına kanal açma

İç çapta ve alına kanal açma uygulamalarında ilerleme oranı %20 azaltılır.

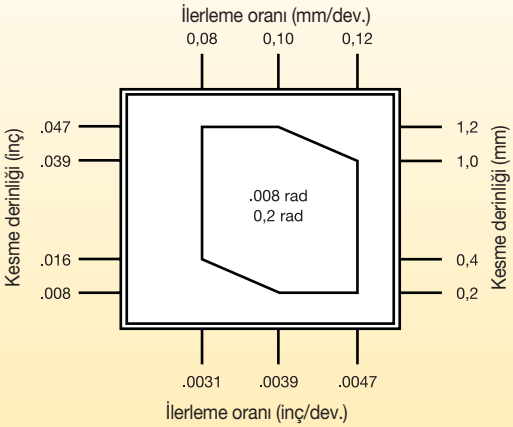


Tornalama ve profil tornalama ilerleme oranları

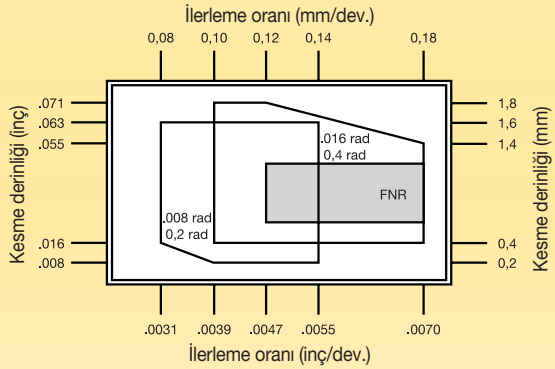
Yuva ölçüsü 1F



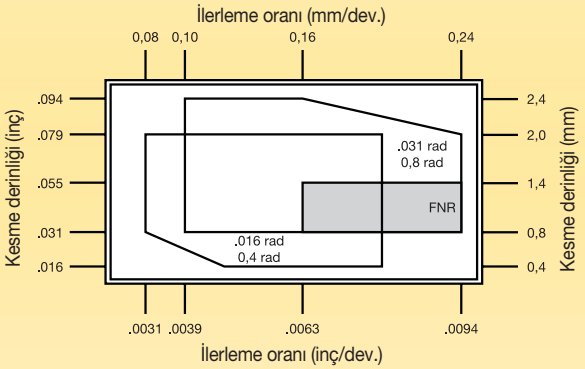
Yuva ölçüsü 2



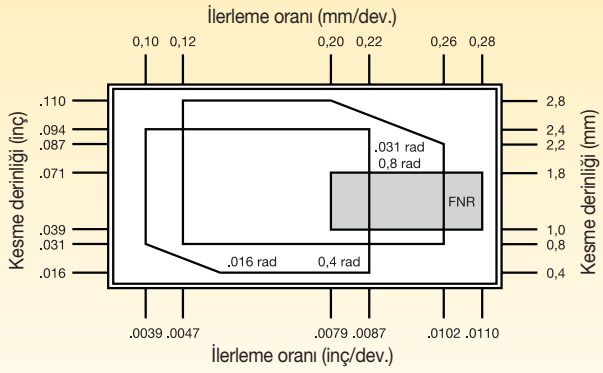
Yuva ölçüsü 3



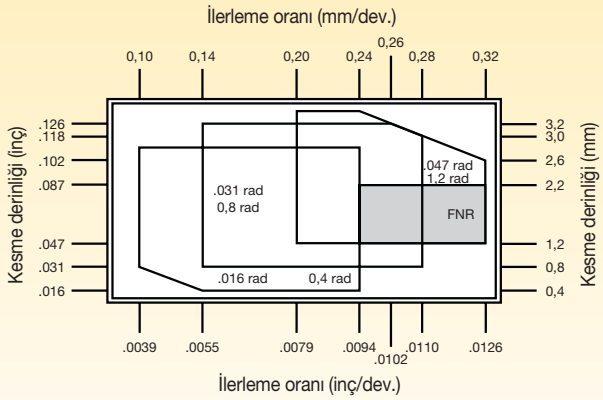
Yuva ölçüsü 4



Yuva ölçüsü 5



Yuva ölçüsü 6

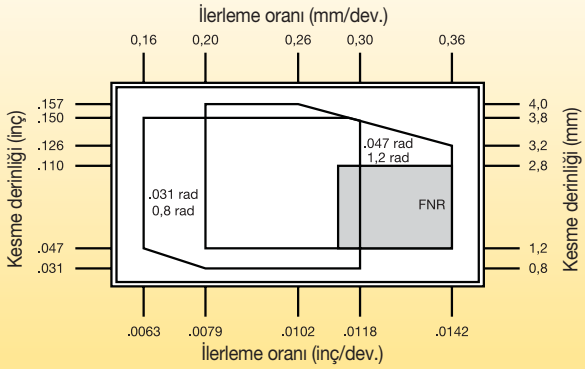


* FNR = Tam uç radyüsü

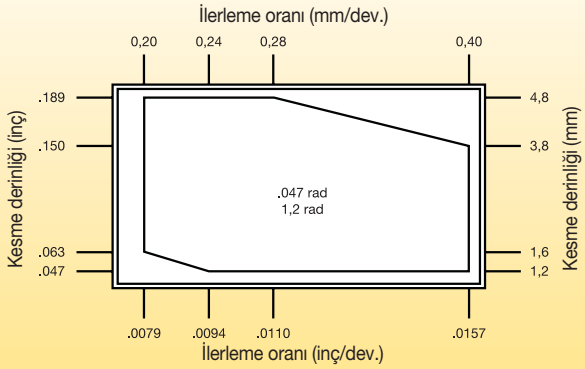
(devamı)

(Tornalama ve profil tornalama ilerleme oranları — devamı)

Yuva ölçüsü 8



Yuva ölçüsü 10

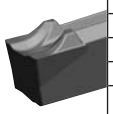
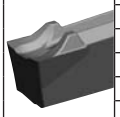
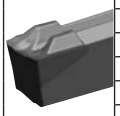
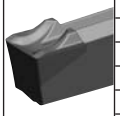


Kesme ilerleme oranları

Dalma ilerleme oranları

● İlk tercih
○ Alternatif tercih

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Geometri	Tanım	Kesici uç geometrisi	Yuva ölçüsü	Başlangıç koşulları mm	Kesme için ilerleme oranları mm/dev. 0,05 – 0,10 – 0,15 – 0,20 – 0,25 – 0,30 – 0,35 – 0,40
-CL	Kırılması zor talaşlar için agresif geometri.		1B	0,06	
			2	0,07	
			3	0,08	
			4	0,09	
-CF	Düşük kesme kuvvetleri için pozitif geometri.		1B	0,06	
			2	0,07	
			3	0,09	
			4	0,11	
			5	0,13	
-CM	Agresif ilerleme oranları için sabit kesme kenarı. Öncelikle dökme demirde.		1B	0,06	
			2	0,07	
			3	0,09	
			4	0,11	
			5	0,14	
			6	0,16	
			8	0,14	
-CR	Çelik için en sabit kesme kenarı.		2	0,10	
			3	0,14	
			4	0,16	
			5	0,19	
			6	0,21	
			8	0,23	

NOT: Yaklaşma açılı kesme ve dilimleme uçları için maksimum ilerleme oranı %40' a kadar düşürülmelidir.

Maksimum ilerleme oranı değerleri

	Malzeme grubu	İlerleme faktörü
Yukarıdaki bilgi P ve K malzeme grupları içindir. **Maksimum** ilerleme oranları, ilerleme oranlarının diğer malzeme grupları için gösterilen faktörlerle çarpılmasıyla ayarlanmalıdır.	M	.8
	N	1.2
	S	.8
	H	.5

Önerilen başlangıç hızları [m/dk.]

Malzeme grubu		K313			KCU10			KCU25			KCM35B			KCP10B			KCP25B			KCK20B		
P	0–1	–	**–**	–	140	**280**	350	110	**225**	270	90	**180**	213	185	**400**	450	145	**290**	365	200	**440**	490
	2	–	**–**	–	140	**200**	300	110	**160**	260	90	**130**	155	185	**270**	350	145	**200**	305	200	**300**	380
	3	–	**–**	–	140	**155**	245	110	**125**	235	90	**100**	155	170	**190**	260	140	**155**	245	600	**200**	280
	4	–	**–**	–	75	**110**	170	60	**90**	160	50	**70**	110	90	**145**	200	75	**110**	180	100	**160**	220
	5	–	**–**	–	120	**200**	260	100	**160**	210	80	**130**	165	150	**220**	305	120	**200**	270	165	**240**	330
	6	–	**–**	–	110	**150**	230	85	**120**	185	70	**100**	145	120	**180**	275	110	**150**	230	130	**190**	300
M	1	60	**90**	120	140	**210**	280	90	**170**	245	75	**120**	135	–	**–**	–	–	**–**	–	–	**–**	–
	2	45	**75**	110	120	**200**	245	90	**150**	245	75	**110**	135	–	**–**	–	–	**–**	–	–	**–**	–
	3	35	**65**	100	120	**180**	245	90	**140**	210	75	**90**	135	–	**–**	–	–	**–**	–	–	**–**	–
K	1	30	**75**	120	120	**180**	245	100	**145**	225	–	**–**	–	170	**245**	440	140	**200**	360	210	**305**	550
	2	25	**70**	110	90	**150**	240	70	**120**	170	–	**–**	–	120	**195**	340	100	**160**	280	150	**245**	430
	3	20	**60**	90	60	**110**	150	50	**85**	120	–	**–**	–	120	**170**	270	100	**140**	220	150	**210**	335
N	1–2	150	**370**	610	150	**550**	975	120	**440**	780	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–
	3	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–
	4	120	**275**	430	120	**365**	700	100	**290**	490	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–
	5	45	**90**	150	90	**170**	245	70	**135**	195	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–
	6	40	**75**	150	120	**210**	305	100	**170**	245	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–
S	1	8	**30**	75	15	**55**	135	8	**40**	60	8	**35**	60	–	**–**	–	–	**–**	–	–	**–**	–
	2	8	**35**	75	15	**60**	135	8	**30**	75	8	**30**	60	–	**–**	–	–	**–**	–	–	**–**	–
	3	8	**40**	75	15	**70**	150	15	**40**	75	15	**35**	60	–	**–**	–	–	**–**	–	–	**–**	–
	4	8	**45**	75	15	**70**	170	8	**50**	110	15	**45**	90	–	**–**	–	–	**–**	–	–	**–**	–
H	1	–	**–**	–	30	**45**	60	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–
	2	–	**–**	–	15	**30**	45	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–
	3	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–

NOT: İLK tercih başlangıç hızları **kalın** harflerle yazılmıştır.
Ortalama talaş kalınlığı arttıkça hız azaltılmalıdır.

Mobil uygulama

Kennametal mobil uygulaması, iPhone® ve Android™ gibi her iki işlemciden birine sahip cihazlarda ürün bilgisine kolay erişim sağlar. Burada özellikle bir dizi önemli işlevleri vurguladık...

Bunu kapsayan bir uygulama var.

KESME HIZLARI VE İLERLEMELER

Metal işleme takımları için kesme hızları ve ilerlemeleri ile ilgili bilgiye erişim.

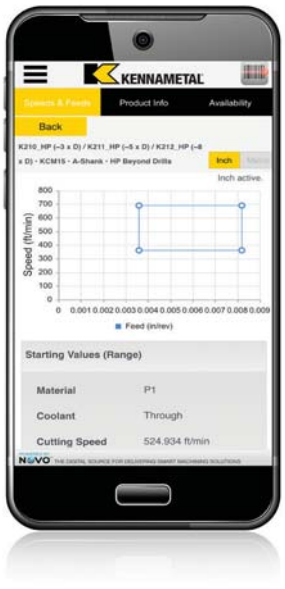
ÜRÜN BULUNABİLİRLİĞİ

Ürünlerin global kullanılabilirliğini kontrol edilir. Konnect giriş bilgilerinizi sağlayarak mevcut miktarlar görüntülenir.

HESAPLAYICILAR

Frezeleme ve delme uygulamaları için işleme hesaplayıcılarımızdan yararlanılır.

Kesici uç paketindeki barkodun taranması ile takım ömrü, iş süreci ve talaş kontrolüne yönelik en verimli kesme değerlerine ve koşullarına erişim olanağı sağlanır.



NOT: Uygulama şu anda sadece İngilizce dil sürümünde bulunmaktadır. Bu uygulamanın farklı dillere çevrilerek gelecekteki sürümler ile sunulması planlanmıştır.

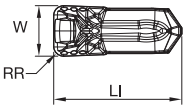
Google play | Available on the App Store

- Pozitif talaş kırıcı kesme kuvvetlerini azaltır.
- Kenar tornalamada talaş kontrolü için tasarlanmış geometri.
- Tüm malzemelerde yüksek performans.

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						





GUP Hassas kalıplanmış • Metrik

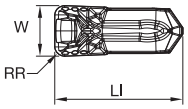
Katalog numarası	Yuva ölçüsü	W	W Tolerans ±	RR	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG0212M02U02GUP	2	2,125	0,050	0,20	8,97	●	●	●	●	–	–	–
EG0251M02U02GUP	2	2,511	0,050	0,20	8,97	●	●	●	●	–	–	–
EG0312M03U02GUP	3	3,125	0,075	0,20	9,60	●	●	●	–	–	–	–
EG0312M03U04GUP	3	3,125	0,075	0,40	9,60	●	●	●	●	–	–	–
EG0412M04U04GUP	4	4,125	0,075	0,40	10,19	●	●	●	●	–	–	–
EG0412M04U08GUP	4	4,125	0,075	0,80	10,19	●	●	●	●	–	–	–
EG0512M05U04GUP	5	5,125	0,075	0,40	12,25	●	●	●	●	–	–	–
EG0512M05U08GUP	5	5,125	0,075	0,80	12,25	●	●	●	●	–	–	–
EG0612M06U04GUP	6	6,125	0,075	0,40	14,60	●	●	●	●	–	–	–
EG0612M06U08GUP	6	6,125	0,075	0,80	14,60	●	●	●	●	–	–	–
EG0712M06U08GUP	6	7,125	0,075	0,80	14,60	●	●	●	●	–	–	–
EG0812M08U08GUP	8	8,125	0,075	0,80	17,47	●	●	●	●	–	–	–
EG0812M08U12GUP	8	8,125	0,075	1,18	17,45	●	●	●	●	–	–	–
EG1012M10U12GUP	10	10,125	0,075	1,20	20,80	●	●	●	●	–	–	–

- Pozitif talaş kırıcı kesme kuvvetlerini azaltır.
- Kenar tornalamada talaş kontrolü için tasarlanmış geometri.
- Tüm malzemelerde yüksek performans.
- Daha hassas genişlikler ve daha iyi tekrarlanabilirlik.

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						





GUP Hassas taşlanmış • Metrik

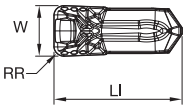
Katalog numarası	Yuva ölçüsü	W	W tol ±	RR	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG0200M02P02GUP	2	2,000	0,025	0,20	8,80	●	●	–	–	–	–	●
EG0300M03P02GUP	3	3,000	0,025	0,20	9,40	●	●	–	–	–	–	●
EG0300M03P04GUP	3	3,000	0,025	0,40	9,60	●	●	–	–	–	–	●
EG0400M04P04GUP	4	4,000	0,025	0,40	10,10	●	●	–	–	–	–	●
EG0400M04P08GUP	4	4,000	0,025	0,80	10,10	●	●	–	–	–	–	●
EG0500M05P04GUP	5	5,000	0,025	0,40	12,20	●	●	–	–	–	–	●
EG0500M05P08GUP	5	5,000	0,025	0,80	12,20	●	●	–	–	–	–	●
EG0600M06P04GUP	6	6,000	0,025	0,40	14,50	●	●	–	–	–	–	●
EG0600M06P08GUP	6	6,000	0,025	0,80	14,50	●	●	–	–	–	–	●
EG0700M06P08GUP	6	7,000	0,025	0,80	14,50	●	●	–	–	–	–	●
EG0800M08P08GUP	8	8,000	0,025	0,80	17,40	●	●	–	–	–	–	●
EG0800M08P12GUP	8	8,000	0,025	1,20	17,40	●	●	–	–	–	–	●
EG1000M10P12GUP	10	10,000	0,025	1,20	20,70	●	●	–	–	–	–	●

- Pozitif talaş kırıcı kesme kuvvetlerini azaltır.
- Kenar tornalamada talaş kontrolü için tasarlanmış geometri.
- Tüm malzemelerde yüksek performans.

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						





GUP Hassas kalıplanmış • İnç

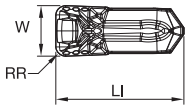
Katalog numarası	Yuva ölçüsü	W	W tol ±	RR	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG130I03U05GUP	3	3,301	0,075	0,20	9,60	●	●	●	●	–	–	–
EG130I03U1GUP	3	3,301	0,075	0,40	9,60	●	●	●	●	–	–	–
EG192I04U1GUP	4	4,877	0,075	0,40	10,19	●	●	●	●	–	–	–
EG192I04U2GUP	4	4,877	0,075	0,79	10,19	●	●	●	●	–	–	–
EG255I06U1GUP	6	6,478	0,075	0,40	14,58	●	●	●	●	–	–	–
EG255I06U2GUP	6	6,478	0,075	0,80	14,58	●	●	●	●	–	–	–
EG317I08U3GUP	8	8,051	0,075	1,19	17,46	●	●	●	●	–	–	–
EG380I10U3GUP	10	9,651	0,075	1,19	20,80	●	●	●	●	–	–	–

- Pozitif talaş kırıcı kesme kuvvetlerini azaltır.
- Kenar tornalamada talaş kontrolü için tasarlanmış geometri.
- Tüm malzemelerde yüksek performans.
- Daha hassas genişlikler ve daha iyi tekrarlanabilirlik.

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



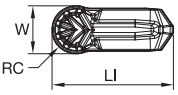


GUP Hassas taşlanmış • İnç

Katalog numarası	Yuva ölçüsü	W	W tol ±	RR	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG063I1FP05GUP	1F	1,600	0,025	0,20	9,00	●	●	–	–	–	–	●
EG094I02P05GUP	2	2,388	0,025	0,20	8,88	●	●	–	–	–	–	●
EG125I03P05GUP	3	3,175	0,025	0,20	9,40	●	●	–	–	–	–	●
EG125I03P1GUP	3	3,175	0,025	0,40	9,40	●	●	–	–	–	–	●
EG187I04P1GUP	4	4,760	0,025	0,40	10,10	●	●	–	–	–	–	●
EG187I04P2GUP	4	4,762	0,025	0,79	10,10	●	●	–	–	–	–	●
EG250I06P1GUP	6	6,350	0,025	0,40	14,50	●	●	–	–	–	–	●
EG250I06P2GUP	6	6,350	0,025	0,80	14,50	●	●	–	–	–	–	●
EG312I08P3GUP	8	7,920	0,025	1,20	17,40	●	●	–	–	–	–	●
EG375I10P3GUP	10	9,525	0,025	1,20	20,70	●	●	–	–	–	–	●

- Profil işlemede ilk tercih.
- >180° kesme kenarı.
- Tüm malzemelerde yüksek performans.





GUP Tam radyüs hassas kalıplanmış • Metrik

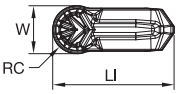
Katalog numarası	Yuva ölçüsü	W	W tol ±	RC	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER0312M03U00GUP	3	3,125	0,075	1,560	9,60	●	●	●	●	–	–	–
ER0412M04U00GUP	4	4,125	0,075	2,060	10,20	●	●	●	●	–	–	–
ER0512M05U00GUP	5	5,125	0,075	2,560	12,20	●	●	●	●	–	–	–
ER0612M06U00GUP	6	6,125	0,075	3,060	14,60	●	●	●	●	–	–	–
ER0812M08U00GUP	8	8,125	0,075	4,060	17,50	●	●	●	●	–	–	–

- Profil işlemede ilk tercih.
- >180° kesme kenarı.
- Tüm malzemelerde yüksek performans.
- Daha hassas genişlikler ve daha iyi tekrarlanabilirlik.

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



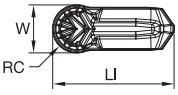


GUP Tam radyüs hassas taşlanmış • Metrik

Katalog numarası	Yuva ölçüsü	W	W tol ±	RC	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER0300M03P00GUP	3	3,000	0,025	1,500	9,50	●	●	–	–	–	–	●
ER0400M04P00GUP	4	4,000	0,025	2,000	10,10	●	●	–	–	–	–	●
ER0500M05P00GUP	5	5,000	0,025	2,500	12,20	●	●	–	–	–	–	●
ER0600M06P00GUP	6	6,000	0,025	3,000	14,50	●	●	–	–	–	–	●
ER0800M08P00GUP	8	8,000	0,025	4,000	17,40	●	●	–	–	–	–	●

- Profil işlemede ilk tercih.
- >180° kesme kenarı.
- Tüm malzemelerde yüksek performans.





GUP Tam radyüs hassas kalıplanmış • İnç

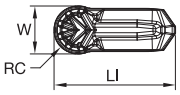
Katalog numarası	Yuva ölçüsü	W	W tol ±	RC	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER130I03U00GUP	3	3,302	0,075	1,650	9,60	●	●	●	●	–	–	–
ER192I04U00GUP	4	4,878	0,075	2,440	10,20	●	●	●	●	–	–	–
ER255I06U00GUP	6	6,478	0,075	3,240	14,60	●	●	●	●	–	–	–
ER317I08U00GUP	8	8,052	0,075	4,030	17,50	●	●	●	●	–	–	–

- Profil işlemede ilk tercih.
- >180° kesme kenarı.
- Tüm malzemelerde yüksek performans.
- Daha hassas genişlikler ve daha iyi tekrarlanabilirlik.

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



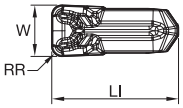


GUP Tam radyüs hassas taşlanmış • İnç

Katalog numarası	Yuva ölçüsü	W	W tol ±	RC	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER125I03P00GUP	3	3,175	0,025	1,590	9,50	●	●	–	–	–	–	●
ER187I04P00GUP	4	4,762	0,025	2,380	10,10	●	●	–	–	–	–	●
ER250I06P00GUP	6	6,350	0,025	3,170	14,50	●	●	–	–	–	–	●
ER312I08P00GUP	8	7,920	0,025	3,960	17,40	●	●	–	–	–	–	●

- Güçlü kesme kenarı için negatif talaş yüzeyi.
- Daha agresif uygulamalar.
- Düşük ilerleme ve kesme derinliğine sahip uygulamalarda avantaj.





GUN Hassas kalıplanmış • Metrik

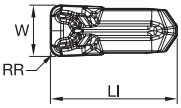
Katalog numarası	Yuva ölçüsü	W	W tol ±	RR	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG0212M02U02GUN	2	2,125	0,050	0,20	8,97	●	●	●	●	●	–	–
EG0251M02U02GUN	2	2,510	0,050	0,20	8,97	●	●	●	●	●	–	–
EG0312M03U02GUN	3	3,125	0,075	0,20	9,60	●	●	●	●	●	–	–
EG0312M03U04GUN	3	3,125	0,075	0,40	9,60	●	●	●	●	●	–	–
EG0412M04U04GUN	4	4,125	0,075	0,40	10,19	●	●	●	●	●	–	–
EG0412M04U08GUN	4	4,125	0,075	0,80	10,19	●	●	●	●	●	–	–
EG0512M05U04GUN	5	5,125	0,075	0,40	12,20	●	●	●	●	●	–	–
EG0512M05U08GUN	5	5,125	0,075	0,80	12,20	●	●	●	●	●	–	–
EG0612M06U04GUN	6	6,125	0,075	0,40	14,60	●	●	●	–	●	–	–
EG0612M06U08GUN	6	6,125	0,075	0,80	14,60	●	●	–	●	●	–	–
EG0812M08U08GUN	8	8,125	0,075	0,80	17,50	●	●	●	●	●	–	–
EG0812M08U12GUN	8	8,125	0,075	1,20	17,50	●	●	●	●	●	–	–
EG1012M10U12GUN	10	10,125	0,075	1,20	20,80	●	●	●	●	●	–	–

- Güçlü kesme kenarı için negatif talaş yüzeyi.
- Daha agresif uygulamalar.
- Düşük ilerleme ve kesme derinliğine sahip uygulamalarda avantaj.

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						



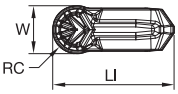


GUN Hassas kalıplanmış • İnç

Katalog numarası	Yuva ölçüsü	W	W tol ±	RR	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EG063I1FU05GUN	1F	1,600	0,050	0,20	9,00	●	●	●	●	●	–	–
EG130I03U05GUN	3	3,302	0,075	0,20	9,60	●	●	●	●	●	–	–
EG130I03U1GUN	3	3,302	0,075	0,40	9,60	●	●	●	●	●	–	–
EG192I04U1GUN	4	4,877	0,075	0,40	10,19	●	●	●	●	●	–	–
EG192I04U2GUN	4	4,878	0,075	0,79	10,19	●	●	●	●	●	–	–
EG255I06U1GUN	6	6,477	0,075	0,40	14,58	●	●	●	●	●	–	–
EG255I06U2GUN	6	6,477	0,075	0,80	14,58	●	●	●	●	●	–	–
EG317I08U3GUN	8	8,052	0,075	1,19	17,46	●	●	●	●	●	–	–
EG380I10U3GUN	10	9,651	0,075	1,20	20,80	●	●	●	●	●	–	–

- Güçlü kesme kenarı için negatif talaş yüzeyi.
- Profil işlemede ilk tercih.
- >180° kesme kenarı.
- Tüm malzemelerde yüksek performans.





GUN Tam radyüs hassas kalıplanmış • Metrik

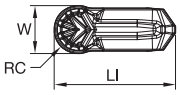
Katalog numarası	Yuva ölçüsü	W	W tol ±	RC	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER0312M03U00GUN	3	3,125	0,075	1,560	9,60	●	●	●	●	●	–	–
ER0412M04U00GUN	4	4,125	0,075	2,060	10,20	●	●	●	●	●	–	–
ER0512M05U00GUN	5	5,125	0,075	2,560	12,20	●	●	●	●	●	–	–
ER0612M06U00GUN	6	6,125	0,075	3,060	14,60	●	●	●	●	●	–	–
ER0812M08U00GUN	8	8,125	0,075	4,060	17,47	●	●	●	●	●	–	–

- Güçlü kesme kenarı için negatif talaş yüzeyi.
- Profil işlemede ilk tercih.
- >180° kesme kenarı.
- Tüm malzemelerde yüksek performans.

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						





GUN Tam radyüs hassas kalıplanmış • İnç

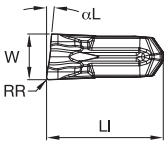
Katalog numarası	Yuva ölçüsü	W	W Tolerans ±	RC	LI	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
ER094I02U00GUN	2	2,387	0,050	1,190	8,97	●	●	●	●	●	–	–
ER125I03U00GUN	3	3,177	0,075	1,590	9,60	●	●	●	●	●	–	–
ER130I03U00GUN	3	3,300	0,075	1,650	9,60	●	●	●	●	●	–	–
ER187I04U00GUN	4	4,750	0,075	2,370	10,20	●	●	●	●	●	–	–
ER192I04U00GUN	4	4,873	0,075	2,440	10,20	●	●	●	●	●	–	–
ER250I06U00GUN	6	6,346	0,075	3,170	14,60	●	●	●	●	●	–	–
ER255I06U00GUN	6	6,473	0,075	3,240	14,60	●	●	●	●	●	–	–
ER312I08U00GUN	8	7,925	0,075	3,960	17,50	●	●	●	●	●	–	–
ER317I08U00GUN	8	8,052	0,075	4,030	17,50	●	●	●	●	●	–	–

- Pozitif talaş kırıcı kesme kuvvetlerini azaltır.
- Çelik ve paslanmaz çelikte ilk tercih.
- Mükemmel yüzey kalitesi.


Sol yönlü


nötr


Sağ yönlü



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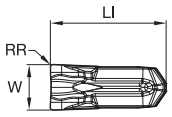

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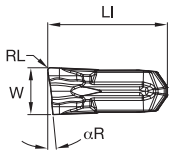


Sağ yönlü

CF Hassas kalıplanmış • Metrik

Katalog numarası	Yuva ölçüsü	W	W Tolerans ±	LI	αR	αL	RR	RL	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EC014M1BL06CF01	1B	1,404	0,050	9,00	–	6	0,15	–	–	●	–	–	–	●	–
EC014M1BN00CF01	1B	1,400	0,050	9,00	–	–	0,15	0,15	–	●	–	–	–	●	–
EC014M1BR06CF01	1B	1,404	0,050	9,00	6	–	–	0,15	–	●	–	–	–	●	–
EC020M02L06CF02	2	2,000	0,050	8,97	–	6	0,20	–	–	●	–	–	–	●	–
EC020M02N00CF02	2	2,000	0,050	8,97	–	–	0,20	0,20	–	●	–	–	–	●	–
EC020M02R06CF02	2	2,000	0,050	8,97	6	–	–	0,20	–	●	–	–	–	●	–
EC030M03L06CF02	3	3,000	0,075	9,60	–	6	0,20	–	–	●	–	–	–	●	–
EC030M03N00CF02	3	3,000	0,075	9,60	–	–	0,20	0,20	–	●	–	–	–	●	–
EC030M03R06CF02	3	3,000	0,075	9,60	6	–	–	0,20	–	●	–	–	–	●	–
EC040M04L06CF02	4	4,000	0,075	10,19	–	6	0,20	–	–	●	–	–	–	●	–
EC040M04N00CF02	4	4,000	0,075	10,19	–	–	0,20	0,20	–	●	–	–	–	●	–
EC040M04R06CF02	4	4,000	0,075	10,19	6	–	–	0,20	–	●	–	–	–	●	–
EC050M05N00CF03	5	5,000	0,075	12,20	–	–	0,30	0,30	–	●	–	–	–	●	–

- En agresif talaş kırıcı.
- Uzun talaş veren malzemelerde kullanım için.
- Problem çözücü.

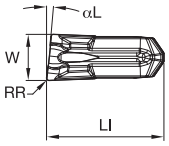
● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						


Sol yönlü


nötr


Sağ yönlü



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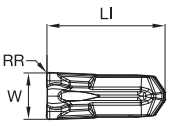

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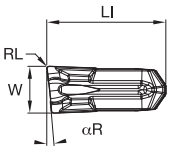


Sağ yönlü

CL Hassas kalıplanmış • Metrik

Katalog numarası	Yuva ölçüsü	W	W Tolerans ±	LI	αR	αL	RR	RL
EC014M1BL06CL01	1B	1,400	0,050	9,00	–	6	0,15	–
EC014M1BN00CL01	1B	1,400	0,050	9,00	–	–	0,15	0,15
EC014M1BR06CL01	1B	1,400	0,050	9,00	6	–	–	0,15
EC020M02L06CL02	2	2,000	0,050	8,96	–	6	0,20	–
EC020M02N00CL02	2	2,000	0,050	8,97	–	–	0,20	0,20
EC020M02R06CL02	2	2,000	0,050	8,96	6	–	–	0,20
EC030M03L06CL02	3	3,000	0,075	9,59	–	6	0,20	–
EC030M03N00CL02	3	3,000	0,075	9,60	–	–	0,20	0,20
EC030M03R06CL02	3	3,000	0,075	9,59	6	–	–	0,20
EC040M04L06CL02	4	4,000	0,075	10,19	–	6	0,20	–
EC040M04N00CL02	4	4,000	0,075	10,20	–	–	0,20	0,20
EC040M04R06CL02	4	4,000	0,075	10,19	6	–	–	0,20

- Kesme kenarı sürdürülebilir sağlamlığında kesin çözüm.
- Darbeli kesme ve sertleştirilmiş kabuk için güçlendirme.
- Dökme demir için ilk tercih.

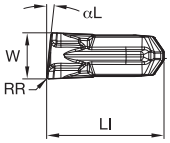
● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						

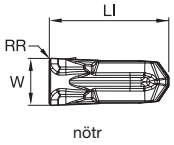

Sol yönlü


nötr


Sağ yönlü



Sol yönlü



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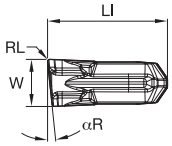


Sağ yönlü

CM Hassas kalıplanmış • Metrik

Katalog numarası	Yuva ölçüsü	W	W tol ±	LI	αR	αL	RR	RL	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EC014M1BL06CM01	1B	1,400	0,050	9,00	–	6	0,20	–	–	●	–	–	–	–	–
EC014M1BN00CM01	1B	1,400	0,050	9,00	–	–	0,15	0,15	–	●	–	–	–	–	–
EC014M1BR06CM01	1B	1,400	0,050	9,00	6	–	–	0,20	–	●	–	–	–	–	–
EC020M02L06CM02	2	2,000	0,050	9,00	–	6	0,20	–	–	●	–	–	–	–	–
EC020M02N00CM02	2	2,000	0,050	8,98	–	–	0,20	0,20	–	●	–	–	–	–	–
EC020M02R06CM02	2	2,000	0,050	9,00	6	–	–	0,20	–	●	–	–	–	–	–
EC030M03L06CM02	3	3,000	0,075	9,60	–	6	0,20	–	–	●	–	–	–	–	–
EC030M03N00CM02	3	3,000	0,075	9,60	–	–	0,20	0,20	–	●	–	–	–	–	–
EC030M03R06CM02	3	3,000	0,075	9,60	6	–	–	0,20	–	●	–	–	–	–	–
EC040M04L06CM02	4	4,000	0,075	10,20	–	6	0,20	–	–	●	–	–	–	–	–
EC040M04N00CM02	4	4,000	0,075	10,20	–	–	0,20	0,20	–	●	–	–	–	–	–
EC040M04R06CM02	4	4,000	0,075	10,20	6	–	–	0,20	–	●	–	–	–	–	–
EC050M05N00CM03	5	5,000	0,075	12,20	–	–	0,30	0,30	–	●	–	–	–	–	–
EC060M06N00CM03	6	6,000	0,075	14,59	–	–	0,30	0,30	–	●	–	–	–	–	–
EC070M06N00CM04	6	7,000	0,075	14,60	–	–	0,40	0,40	–	●	–	–	–	–	–
EC080M08N00CM04	8	8,000	0,075	17,50	–	–	0,40	0,40	–	●	–	–	–	–	–

- İçbükey kesme kenarı sayesinde güçlü talaş kontrolü.
- Çelikte ek sağlamlık gerektiğinde ilk tercihtir.
- En agresif hız oranları uygulanabilir.

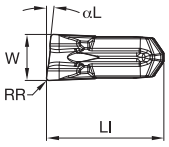
● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
P		●	●	●	●	○		
M		●	●				●	○
K		○	○	○	○	●		○
N		●	○					●
S		●	●					●
H		○						

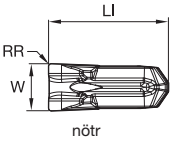

Sol yönlü


nötr


Sağ yönlü



Sol yönlü



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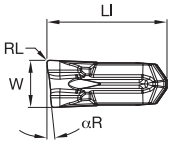


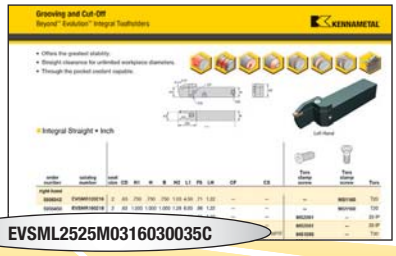
Sağ yönlü

CR Hassas kalıplanmış • Metrik

Katalog numarası	Yuva ölçüsü	W	W tol ±	LI	αR	αL	RR	RL	KCU10	KCU25	KCP10B	KCP25B	KCK20B	KCM35B	K313
EC020M02L06CR02	2	2,000	0,050	9,00	–	6	0,20	–	–	●	–	–	–	–	–
EC020M02N00CR02	2	2,000	0,050	8,98	–	–	0,20	0,20	–	●	–	–	–	–	–
EC020M02R06CR02	2	2,000	0,050	9,00	6	–	–	0,20	–	●	–	–	–	–	–
EC030M03L06CR02	3	3,000	0,075	9,60	–	6	0,20	–	–	●	–	–	–	–	–
EC030M03N00CR02	3	3,000	0,075	9,60	–	–	0,20	0,20	–	●	–	–	–	–	–
EC030M03R06CR02	3	3,000	0,075	9,60	6	–	–	0,20	–	●	–	–	–	–	–
EC040M04L06CR02	4	4,000	0,075	10,20	–	6	0,20	–	–	●	–	–	–	–	–
EC040M04N00CR02	4	4,000	0,075	10,20	–	–	0,20	0,20	–	●	–	–	–	–	–
EC040M04R06CR02	4	4,000	0,075	10,20	6	–	–	0,20	–	●	–	–	–	–	–
EC050M05N00CR03	5	5,000	0,075	12,25	–	–	0,30	0,30	–	●	–	–	–	–	–
EC060M06L06CR04	6	6,000	0,075	14,59	–	6	0,40	–	–	●	–	–	–	–	–
EC060M06N00CR03	6	6,000	0,075	14,59	–	–	0,30	0,30	–	●	–	–	–	–	–
EC060M06R06CR04	6	6,000	0,075	14,59	6	–	–	0,40	–	●	–	–	–	–	–
EC070M06N00CR04	6	7,000	0,075	14,60	–	–	0,40	0,40	–	●	–	–	–	–	–
EC080M08L06CR04	8	8,000	0,075	17,50	–	6	0,40	–	–	●	–	–	–	–	–
EC080M08N00CR04	8	8,000	0,075	17,50	–	–	0,40	0,40	–	●	–	–	–	–	–
EC080M08R06CR04	8	8,000	0,075	17,50	6	–	–	0,40	–	●	–	–	–	–	–

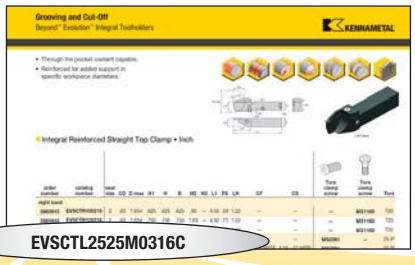
Katalog numaraları nasıl kullanılır ?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



EV	S	M	L	2525M	03	16	030035	C
Ürün grubu tanımı	Takım tipi	Destek tipi	Yön	Şaft ölçüsü	Yuva ölçüsü	Maksimum kanal derinliği	Alına kanal açma çapları	Soğutma sıvısı
Beyond™ Evolution™	**S** = Düz monte	**M** = Belirli bir kanal genişliği için maksimum destek ve sınırsız iş parçası çapı için düz boşluk **A** = Alına kanal açma; İç konumda tarama **B** = Alına kanal açma; Dış konumda tarama	**L** = Sol yönlü **R** = Sağ yönlü	**Metrik** = Yükseklik x Genişlik, mm olarak ISO' ya göre takım boyunu gösterir	**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	Milimetre olarak	**030** = mm olarak minimum çap **035** = mm olarak maksimum çap	**C** = İçten soğutmalı uç yuvası özelliği

Kullanımı kolay bu kılavuzu referans vererek, ihtiyaçlarınızı karşılayacak doğru ürünü tanımlayabilirsiniz.



EVSCTL2525M0316C

EV	S	C	T	L	2525M	03	16	C
Ürün grubu tanımı	Takım tipi	Destek tipi	Bağlama vidası konumu	Yön	Şaft ölçüsü	Yuva ölçüsü	Maksimum kanal derinliği	Soğutma sıvısı
Beyond™ Evolution™	**S** = Düz montaj		**T** = Üst **F** = Alın	**L** = Sol yönlü **R** = Sağ yönlü		**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	milimetre cinsinden	**C** = İçten soğutmalı uç yuvası özelliği

C = Güçlendirilmiş destek

Metrik = mm olarak Yükseklik x Genişlik, ISO' ya göre takım boyunu göstermektedir

Katalog numaraları nasıl kullanılır?

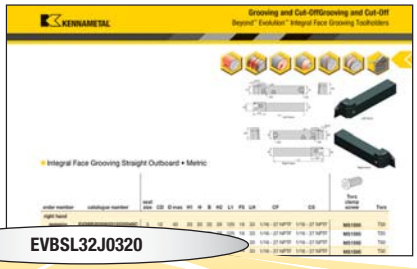
Kataloğumuzda yer alan numara sistemindeki her bir karakter Delik işleme baraları ve Kesme-dilimleme lamaları ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



A16REVEMR0310M030035

A	16	R	EV	E	M	R	03	10	M	030035
İçten soğutmalı çelik bara	Bara çapı	Bara boyu	Taşıyıcı gövde	Takım tipi	Destek altlık tipi	Takım kesme yönü	Kesici uç yuva ölçüsü	Maks. Kesme derinliği	Takım birimleri	Alına kanal açma çapları
İçten soğutma özellikli çelik delik işleme barası.	**Metrik** = Çap mm cinsinden **İnç** = 1/16" artışlı çap	Beyond™ Evolution™	**E** = Uç montajı (90°) **S** = Düz montaj	**M** = Maksimum destek **A** = Alına kanal açma İç yüzey tarama	**R** = Sağ yönlü **L** = Sol yönlü	**1F** **02** **03** **04** **05** **06** **08** **10**	milimetre olarak	**M** = Metrik **I** = İnç	**030** = mm cinsinden minimum çap **035** = mm cinsinden maksimum çap	

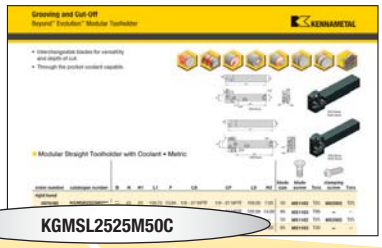
Sembol	mm	inç
K	125	5
M	150	6
Q	180	7
R	200	8
S	250	10
T	300	12



EVBSL32J0320

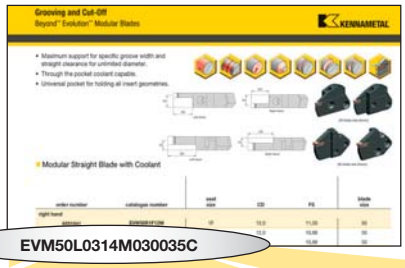
EV	B	S	L	32	J	03	20
Ürün grubu tanımı	Takım tipi	Destek tipi	Yön	Lama yüksekliği	Toplam boy	Yuva ölçüsü	Maksimum kesme derinliği
Beyond™ Evolution™	**B** = 2 uç yuvalı lama	**S** = Standart **C** = Destekli	**N** = Nötr **L** = Sol yönlü **R** = Sağ yönlü	milimetre cinsinden	ISO'ya göre **G** = 90mm **J** = 110mm **M** = 150mm **X** = Özel	**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	milimetre cinsinden

Kullanımı kolay bu kılavuzu referans vererek,
ihtiyaçlarınızı karşılayacak doğru ürünü tanımlayabilirsiniz.



KGMSL2525M50C

KGM	S	L	2525M	50	C
Ürün grubu tanımı	Takım tipi	Yön	Şaft ölçüsü	Lama ölçüsü	Soğutma sıvısı
Kanal açma Modüler sistem	**S** = Düz monte **E** = Uçtan monte (90°)	**L** = Sol yönlü **R** = Sağ yönlü	**Metrik** = mm olarak Yükseklik x Genişlik, ISO' ya göre takım boyunu göstermektedir	**50** **65**	**C** = İçten soğutma özellikli

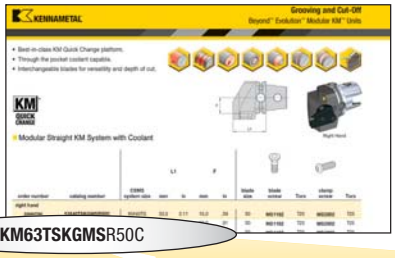


EVM50L0314M030035C

EVM	50	L	03	14	M	030035	C
Ürün grubu tanımı	Lama ölçüsü	Yön	Yuva ölçüsü	Maksimum kanal derinliği	Destek tipi	Alına kanal açma çapları	Soğutma sıvısı
Beyond™ Evolution™ Modüler lama	**50** **65**	**L** = Sol yönlü **R** = Sağ yönlü	**1B** **1F** **02** **03** **04** **05** **06** **08** **10**	milimetre cinsinden	**M** = Özel kanal genişliği için maksimum destek ve sınırsız çap için düz boşluk **A** = Alına kanal açma içbükey **B** = Alına kanal açma dışbükey	**030** = mm cinsinden minimum çap **035** = mm cinsinden maksimum çap	**C** = İçten soğutmalı uç yuvası özelliği

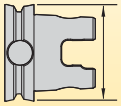
Katalog numaraları nasıl kullanılır?

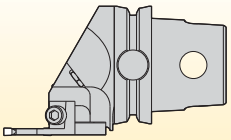
Kataloğumuzda yer alan numara sistemindeki her bir karakter Hızlı değiştirme sistemleri ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.

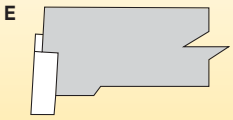


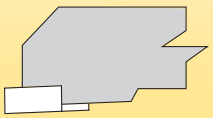
KM63TSKGMSR50C

KM	63	TS	KGM	S
KM™ Hızlı değiştirme	Sistem ölçüsü	Özellik	Kesici uç bağlama yöntemi	Kesici uç konumu
KM **KM4X™** **PSC**	40 = 40mm 50 = 50mm 63 = 63mm 80 = 80mm 100 = 100mm	**TS** **XMZ**	**KGM** **Modüler kanal açma**	**E** = Uç montajı **S** = Alın montajı

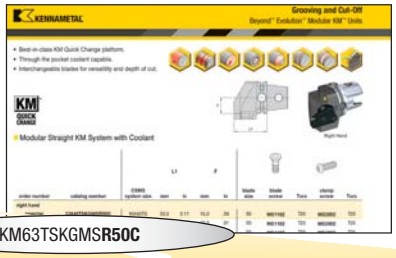








Kullanımı kolay bu rehberi referans alarak ihtiyaçlarınızı karşılayacak doğru ürünü tanımlayabilirsiniz.

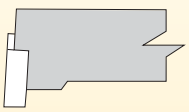


KM63TSKGMS**R50C**

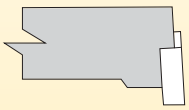
R	50	C	
Takım yönü	Lama ölçüsü	Soğutma sıvısı	Özel açıklamalar
R = Sağ yönlü **L** = Sol yönlü	**50** **60**	**C** = İçten soğutmalı uç yuvası özelliği	**Y** = Mazak® INTEGREX®

Alından monte

R

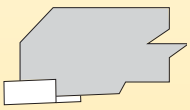


L

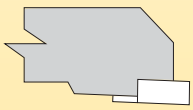


Yandan monte

R

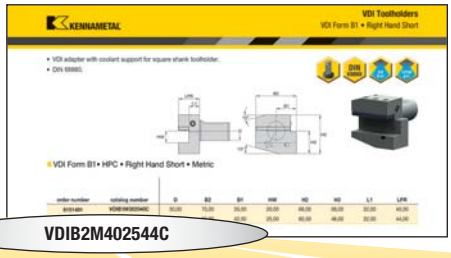


L



Katalog numaraları nasıl kullanılır?

Kataloğumuzda yer alan numara sistemindeki her bir karakter VDI blokları ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



VDIB2M402544C

VDI	B2	M	40	25	44	C
Bağlantı	Tip	Metrik	VDI Şaft çapı	Takım tutucu şaft ölçüsü	Bağlama boyu	İçten soğutmalı

NOVO NASIL ARAYACAĞINI BİLİR

NOVO™'nun sunduğu Öner ve Seç işlevleriyle geliştirilmiş bir takım aranıyor ve böylelikle zaman ve maliyet tasarrufu sağlanıyor.

ÖNER

Kesici takım önerileri sunmak için kural tabanlı bir yaklaşım kullanır:

- İşleme özellikli tanımlar (yüzey frezeleme, kanal frezeleme, kör delik, vb.)
- Gerekli sınırlamaları uygular (geometri, malzeme, tolerans, vb.)
- İşleme sıralamasını düzenler (tek veya çok adımlı işlemler, kaba işleme ardından hassas işleme, vb.)
- Üst düzey sonuç sağlar

SEÇ

Bir hiyerarşi veya parametrik arama yoluyla, bir ağaç yapısından kesici takımları seçme yöntemidir:

- Hangi ürünü aradığınızı biliyorsanız, yalnızca katalog numarası ya da ürün açıklamasıyla hızlı bir arama gerçekleştirilebilir.
- Akıllı filtreler potansiyel takımlama çözümlerinin sayısını önemli ölçüde azaltır.
- Takım seçildikten sonra, NOVO ayrıca kesme ve uyarlanabilir çözümünüz ile uyumlu öğe seçenekleri sunar.

NOVO tezgahlarınızda işinize uygun takımlara doğru sıralamayla sahip olabilmenizi sağlar. Her işi hızlandırır ve sorunsuz uygulama ile her vardiyadan en yüksek verimliliğin elde edilebilmesini sağlar.
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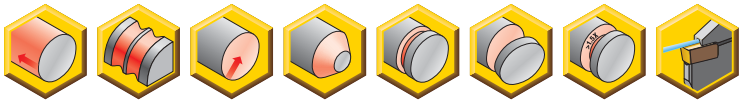
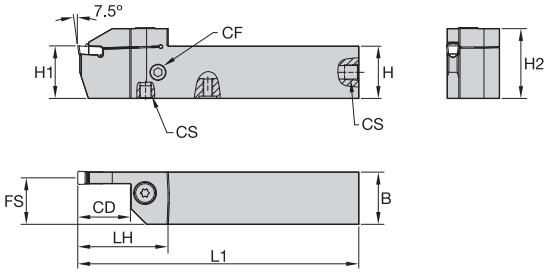
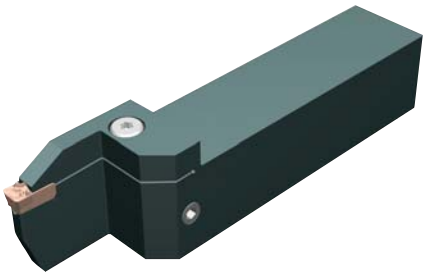
- Mükemmel rijitlik sağlar.
- Sınırsız iş parçası çapları için düz boşluk.
- İçten soğutmalı uç yuvası özelliği.

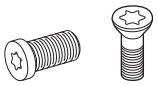






Sol yönlü

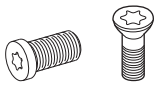
Tümleşik düz • Metrik



Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	H1	H	B	H2	L1	FS	LH	CF	CS	Torx bağlama vidası	Torx bağlama vidası	Torx
Sağ yönlü															
5953960	**EVSMR2020K0216**	2	16	20	20	20	27	125	19	31	–	–	**–**	**MS1160**	T20
5953958	**EVSMR2525M0216**	2	16	25	25	25	32	150	24	31	–	–	**–**	**MS1160**	T20
6401854	**EVSMR2020K0216C**	2	16	20	20	20	28	125	19	35	M8X1	M8X1	**MS2091**	**–**	25 IP
6401855	**EVSMR2525M0216C**	2	16	25	25	25	33	150	24	35	G1/8 - 28	G1/8 - 28	**MS2091**	**–**	25 IP
5953959	**EVSMR2020K0222**	2	22	20	20	20	29	125	19	38	–	–	**MS2091**	**–**	25 IP
6401857	**EVSMR2020K0222C**	2	22	20	20	20	29	125	19	41	M8X1	M8X1	**MS2091**	**–**	25 IP
5953957	**EVSMR2525M0226**	2	26	25	25	25	34	150	24	42	–	–	**MS2091**	**–**	25 IP
6401856	**EVSMR2525M0226C**	2	26	25	25	25	34	150	24	45	G1/8 - 28	G1/8 - 28	**MS2091**	**–**	25 IP
5939452	**EVSMR2020K0316C**	3	16	20	20	20	29	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**–**	T30
5939448	**EVSMR2525M0316C**	3	16	25	25	25	34	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**–**	T30
5939451	**EVSMR2020K0322C**	3	22	20	20	20	29	125	19	43	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**–**	T30
5939447	**EVSMR2525M0326C**	3	26	25	25	25	34	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**–**	T30
5939450	**EVSMR2020K0416C**	4	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**–**	T30
5939446	**EVSMR2525M0416C**	4	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**–**	T30
5939449	**EVSMR2020K0422C**	4	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**–**	T30
5939445	**EVSMR2525M0426C**	4	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**–**	T30
5939444	**EVSMR3232P0426C**	4	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**–**	T30
5939443	**EVSMR3232P0432C**	4	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**–**	T30
5954258	**EVSMR2020K0516C**	5	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**–**	T30
5954254	**EVSMR2525M0516C**	5	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**–**	T30
5954257	**EVSMR2020K0522C**	5	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**–**	T30
5954253	**EVSMR2525M0526C**	5	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**–**	T30
5954249	**EVSMR3232P0526C**	5	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**–**	T30

(devamı)

(Tümleşik düz • Metrik — devamı)



Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	H1	H	B	H2	L1	FS	LH	CF	CS	Torx bağlama vidası	Torx bağlama vidası	Torx
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5954256	**EVSMR2020K0616C**	6	16	20	20	20	29	125	20	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5954252	**EVSMR2525M0616C**	6	16	25	25	25	34	150	25	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5954255	**EVSMR2020K0622C**	6	22	20	20	20	29	125	20	43	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5954251	**EVSMR2525M0626C**	6	26	25	25	25	34	150	25	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5954247	**EVSMR3232P0626C**	6	26	32	32	32	42	170	32	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5954246	**EVSMR3232P0632C**	6	32	32	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5954242	**EVSMR4040R0640C**	6	40	40	40	40	51	200	37	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5954250	**EVSMR2525M0826C**	8	26	25	25	25	35	150	21	49	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
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5954244	**EVSMR3232P0832C**	8	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5954241	**EVSMR4040R0840C**	8	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5954243	**EVSMR3232P1032C**	10	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
5954240	**EVSMR4040R1040C**	10	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	–	T45
Sol yönlü															
5953956	**EVSML2020K0216**	2	16	20	20	20	27	125	19	31	–	–	–	**MS1160**	T20
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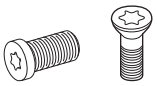
6401881	**EVSML2525M0216C**	2	16	25	25	25	33	150	24	35	G1/8 - 28	G1/8 - 28	**MS2091**	–	25 IP
5953955	**EVSML2020K0222**	2	22	20	20	20	29	125	19	38	–	–	**MS2091**	–	25 IP
5953953	**EVSML2525M0226**	2	26	25	25	25	34	150	24	42	–	–	**MS2091**	–	25 IP
5939442	**EVSML2020K0316C**	3	16	20	20	20	29	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5939438	**EVSML2525M0316C**	3	16	25	25	25	34	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	–	T30
5939441	**EVSML2020K0322C**	3	22	20	20	20	29	125	19	43	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5939437	**EVSML2525M0326C**	3	26	25	25	25	34	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	–	T30
5939440	**EVSML2020K0416C**	4	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5939436	**EVSML2525M0416C**	4	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	–	T30
5939439	**EVSML2020K0422C**	4	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5939435	**EVSML2525M0426C**	4	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	–	T30
5939433	**EVSML3232P0426C**	4	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5939432	**EVSML3232P0432C**	4	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5954239	**EVSML2020K0516C**	5	16	20	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5954235	**EVSML2525M0516C**	5	16	25	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5954238	**EVSML2020K0522C**	5	22	20	20	20	29	125	18	43	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5954234	**EVSML2525M0526C**	5	26	25	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5954220	**EVSML3232P0526C**	5	26	32	32	32	42	170	30	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5954219	**EVSML3232P0532C**	5	32	32	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5954237	**EVSML2020K0616C**	6	16	20	20	20	29	125	17	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5954233	**EVSML2525M0616C**	6	16	25	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30
5954236	**EVSML2020K0622C**	6	22	20	20	20	29	125	17	43	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	–	T30
5954232	**EVSML2525M0626C**	6	26	25	25	25	34	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	–	T30

(devamı)

(Tümleşik düz • Metrik — devamı)

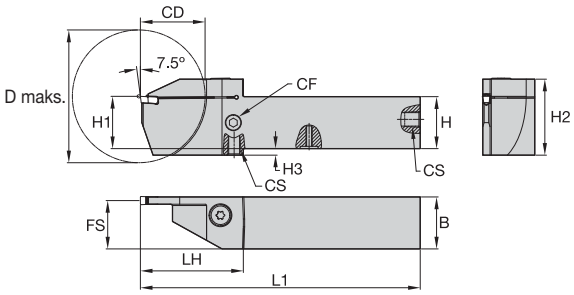


Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	H1	H	B	H2	L1	FS	LH	CF	CS	Torx bağlama vidası	Torx bağlama vidası	Torx
5954218	**EVSML3232P0626C**	6	26	32	32	32	42	170	29	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**–**	T30
5954217	**EVSML3232P0632C**	6	32	32	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954213	**EVSML4040R0640C**	6	40	40	40	40	51	200	37	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954231	**EVSML2525M0826C**	8	26	25	25	25	35	150	21	49	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954216	**EVSML3232P0826C**	8	26	32	32	32	43	170	28	49	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954215	**EVSML3232P0832C**	8	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954212	**EVSML4040R0840C**	8	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954214	**EVSML3232P1032C**	10	32	32	32	32	43	170	28	55	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45
5954211	**EVSML4040R1040C**	10	40	40	40	40	51	200	36	63	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**–**	T45

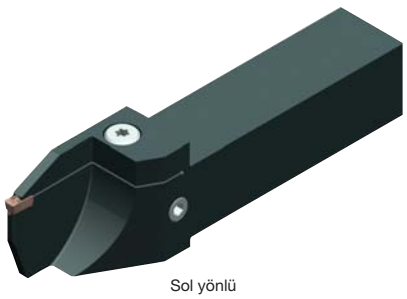
Vida	Vida	Tork				Anahtar	Anahtar
Katalog numarası	Sipariş numarası	Nm	inç lbs.	Vida dişi	Soket	Katalog numarası	Sipariş numarası
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- İçten soğutmalı uç yuvası özelliği.
- Belirli iş parçası çaplarında ilave destek için güçlendirilmiş.



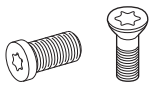


CD = Dolu delik işleme barları için maksimum kesme derinliği.
D maks. = Derin kanal açma veya boruların kesilerek dilimlenmesi için maksimum bara çapı.



Sol yönlü

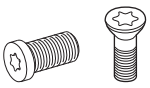
Güçlendirilmiş tümleşik takım tutucu, üstten düz çene bağlamalı • Metrik



Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	D maks.	H1	H	B	H2	H3	L1	FS	LH	CF	CS	Torx bağlama vidası	Torx bağlama vidası	Torx
Sağ yönlü																	
6179757	**EVSCTR1212K1B16**	1B	16	42	12	12	12	23	4	125	11	31	–	–	**–**	**MS1160**	T20
6179758	**EVSCTR1212K1F16**	1F	16	42	12	12	12	23	4	125	11	31	–	–	**–**	**MS1160**	T20
6179759	**EVSCTR1212K0216**	2	16	42	12	12	12	23	4	125	11	31	–	–	**–**	**MS1160**	T20
5980139	**EVSCTR1616K0216**	2	16	42	16	16	16	23	–	125	15	31	–	–	**–**	**MS1160**	T20
5980762	**EVSCTR2020K0216**	2	16	42	20	20	20	27	–	125	19	31	–	–	**–**	**MS1160**	T20
5980767	**EVSCTR2525M0216**	2	16	42	25	25	25	32	–	150	24	31	–	–	**–**	**MS1160**	T20
5980768	**EVSCTR2525M0226**	2	26	62	25	25	25	34	–	150	24	42	–	–	**MS2091**	**–**	25 IP
6179755	**EVSCTR1212K0316C**	3	16	52	12	12	12	23	4	125	11	34	M8X1.25	M8X1.25	**MS1944**	**–**	T25
5980140	**EVSCTR1616K0316C**	3	16	52	16	16	16	24	–	125	15	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**–**	25 IP
5980763	**EVSCTR2020K0316C**	3	16	52	20	20	20	29	–	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**–**	T30
5980138	**EVSCTR2525M0316C**	3	16	62	25	25	25	34	–	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**–**	T30
5980764	**EVSCTR2020K0326C**	3	26	62	20	20	20	33	4	125	19	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**–**	T30
5980769	**EVSCTR2525M0326C**	3	26	62	25	25	25	34	–	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**–**	T30
5980761	**EVSCTR1616K0416C**	4	16	52	16	16	16	24	–	125	14	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**–**	25 IP
5980765	**EVSCTR2020K0416C**	4	16	52	20	20	20	29	–	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**–**	T30
5980766	**EVSCTR2020K0426C**	4	26	62	20	20	20	33	–	125	18	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**–**	T30
5980770	**EVSCTR2525M0426C**	4	26	62	25	25	25	34	–	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**–**	T30
5980771	**EVSCTR2525M0432C**	4	32	64	25	25	25	38	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**–**	T30
5980774	**EVSCTR3232P0432C**	4	32	64	32	32	32	42	–	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**–**	T30
5980772	**EVSCTR2525M0526C**	5	26	62	25	25	25	34	–	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**–**	T30
5980773	**EVSCTR2525M0532C**	5	32	64	25	25	25	39	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**–**	T30
5980775	**EVSCTR3232P0540C**	5	40	82	32	32	32	47	4	170	30	63	G 1/8 - 28	G 1/8 - 28	**MS1490**	**–**	T45

(devamı)

(Güçlendirilmiş tümleşik takım tutucu, üstten düz çene bağlamalı • Metrik — devamı)

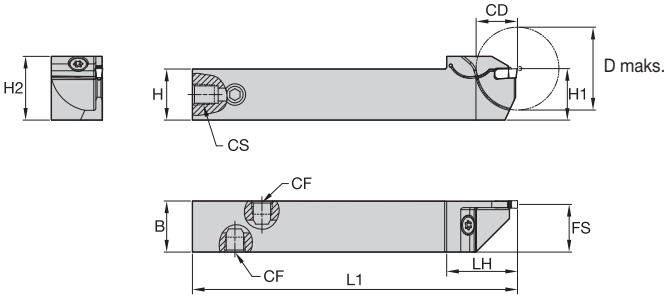


Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	D maks.	H1	H	B	H2	H3	L1	FS	LH	CF	CS	Torx bağlama vidası	Torx bağlama vidası	Torx
Sol yönlü																	
6179760	**EVSCTL1212K1B16**	1B	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
6179761	**EVSCTL1212K1F16**	1F	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
6179762	**EVSCTL1212K0216**	2	16	42	12	12	12	23	4	125	11	31	—	—	**—**	**MS1160**	T20
5980777	**EVSCTL1616K0216**	2	16	42	16	16	16	23	—	125	15	31	—	—	**—**	**MS1160**	T20
5980780	**EVSCTL2020K0216**	2	16	42	20	20	20	27	—	125	19	31	—	—	**—**	**MS1160**	T20
5980805	**EVSCTL2525M0216**	2	16	42	25	25	25	32	—	150	24	31	—	—	**—**	**MS1160**	T20
5980806	**EVSCTL2525M0226**	2	26	62	25	25	25	34	—	150	24	42	—	—	**MS2091**	**—**	25 IP
6179756	**EVSCTL1212K0316C**	3	16	52	12	12	12	23	4	125	11	34	M8X1.25	M8X1.25	**MS1944**	**—**	T25
5980778	**EVSCTL1616K0316C**	3	16	52	16	16	16	24	—	125	15	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980801	**EVSCTL2020K0316C**	3	16	52	20	20	20	29	—	125	19	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980776	**EVSCTL2525M0316C**	3	16	62	25	25	25	34	—	150	24	37	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980802	**EVSCTL2020K0326C**	3	26	62	20	20	20	33	4	125	19	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980807	**EVSCTL2525M0326C**	3	26	62	25	25	25	34	—	150	24	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980779	**EVSCTL1616K0416C**	4	16	52	16	16	16	24	—	125	14	36	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS2091**	**—**	25 IP
5980803	**EVSCTL2020K0416C**	4	16	52	20	20	20	29	—	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980804	**EVSCTL2020K0426C**	4	26	62	20	20	20	33	—	125	18	47	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5980808	**EVSCTL2525M0426C**	4	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980809	**EVSCTL2525M0432C**	4	32	64	25	25	25	38	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5980812	**EVSCTL3232P0432C**	4	32	64	32	32	32	42	—	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980810	**EVSCTL2525M0526C**	5	26	62	25	25	25	34	—	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980811	**EVSCTL2525M0532C**	5	32	64	25	25	25	39	4	150	23	53	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5980813	**EVSCTL3232P0540C**	5	40	82	32	32	32	47	4	170	30	63	G 1/8 - 28	G 1/8 - 28	**MS1490**	**—**	T45

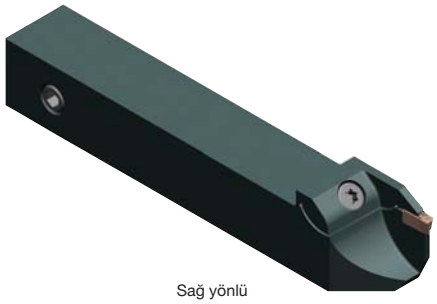
NOT: İçten soğutmalı uç yuvası özelliği 3 ve üzeri yuva ölçüsünde mevcut.

Vida	Vida	Tork				Anahtar	Anahtar
Katalog numarası	Sipariş numarası	Nm	inç lbs.	Vida dişi	Soket	Katalog numarası	Sipariş numarası
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**





CD = Dolu delik işleme barları için maksimum kesme derinliği.
D maks. = Derin kanal açma veya boruların kesilerek dilimlenmesi için maksimum bara çapı.



Sağ yönlü

Güçlendirilmiş tümleşik alından bağlamalı kamalı takım tutucu • Metrik



Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	D maks.	H1	H	B	H2	L1	FS	LH	CF	CS	Torx bağlama vidası	Torx
Sağ yönlü															
6179763	**EVSCFR1010K1B10**	1B	10	20	10	10	10	14	125	9	21	–	–	**191.916**	T15
6179766	**EVSCFR1212K1B10**	1B	10	20	12	12	12	16	125	11	21	–	–	**191.916**	T15
6179767	**EVSCFR1212K1B13**	1B	13	26	12	12	12	16	125	11	24	–	–	**191.916**	T15
6179774	**EVSCFR1616K1B16**	1B	16	32	16	16	16	21	125	15	27	–	–	**MS1160**	T20
6179778	**EVSCFR2020K1B16**	1B	16	32	20	20	20	25	125	19	27	–	–	**MS1160**	T20
6179764	**EVSCFR1010K1F10**	1F	10	20	10	10	10	14	125	9	21	–	–	**191.916**	T15
6179768	**EVSCFR1212K1F10**	1F	10	20	12	12	12	16	125	11	21	–	–	**191.916**	T15
6179769	**EVSCFR1212K1F13**	1F	13	26	12	12	12	16	125	11	24	–	–	**191.916**	T15
6179775	**EVSCFR1616K1F16**	1F	16	32	16	16	16	21	125	15	27	–	–	**MS1160**	T20
6179779	**EVSCFR2020K1F16**	1F	16	32	20	20	20	25	125	19	27	–	–	**MS1160**	T20
6179765	**EVSCFR1010K0210**	2	10	20	10	10	10	14	125	9	21	–	–	**191.916**	T15
6179770	**EVSCFR1212K0210**	2	10	20	12	12	12	16	125	11	21	–	–	**191.916**	T15
6179771	**EVSCFR1212K0216**	2	16	32	12	12	12	16	125	11	27	–	–	**191.916**	T15
6179776	**EVSCFR1616K0216**	2	16	32	16	16	16	21	125	15	27	–	–	**MS1160**	T20
6179780	**EVSCFR2020K0216**	2	16	32	20	20	20	25	125	19	27	–	–	**MS1160**	T20
6179772	**EVSCFR1212K0310C**	3	10	20	12	12	12	17	125	11	22	M8X1	M8X1	**191.916**	T15
6179773	**EVSCFR1212K0316C**	3	16	32	12	12	12	17	125	11	28	M8X1	M8X1	**191.916**	T15
6179777	**EVSCFR1616K0316C**	3	16	32	16	16	16	21	125	15	28	M8X1	M8X1	**MS1160**	T20
6179781	**EVSCFR2020K0316C**	3	16	32	20	20	20	25	125	19	28	M8X1	M8X1	**MS1160**	T20

(devamı)

(Güçlendirilmiş tümleşik alından bağlamalı kamalı takım tutucu • Metrik — devamı)

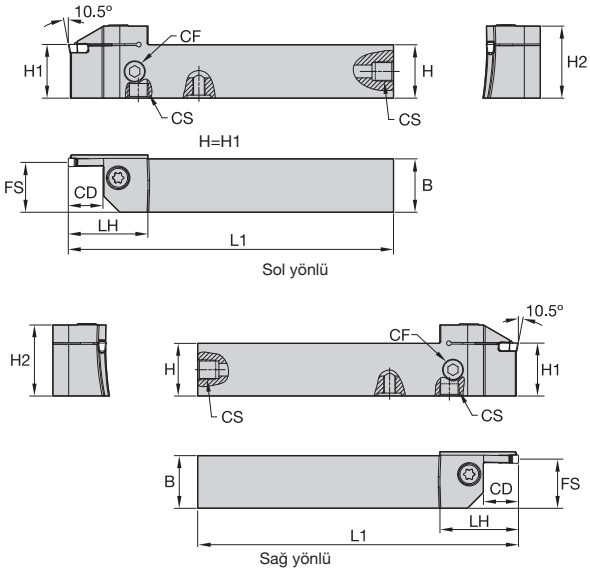


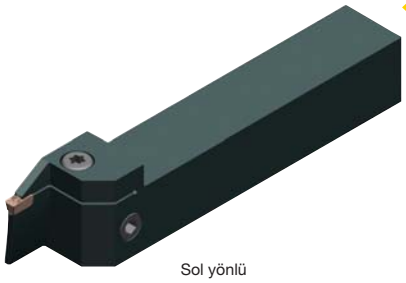
Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	D maks.	H1	H	B	H2	L1	FS	LH	CF	CS	Torx bağlama vidası	Torx
Sol yönlü															
6179709	**EVSCFL1010K1B10**	1B	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179922	**EVSCFL1212K1B10**	1B	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179923	**EVSCFL1212K1B13**	1B	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179930	**EVSCFL1616K1B16**	1B	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179934	**EVSCFL2020K1B16**	1B	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179710	**EVSCFL1010K1F10**	1F	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179924	**EVSCFL1212K1F10**	1F	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179925	**EVSCFL1212K1F13**	1F	13	26	12	12	12	16	125	11	24	—	—	**191.916**	T15
6179931	**EVSCFL1616K1F16**	1F	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179935	**EVSCFL2020K1F16**	1F	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179921	**EVSCFL1010K0210**	2	10	20	10	10	10	14	125	9	21	—	—	**191.916**	T15
6179926	**EVSCFL1212K0210**	2	10	20	12	12	12	16	125	11	21	—	—	**191.916**	T15
6179927	**EVSCFL1212K0216**	2	16	32	12	12	12	16	125	11	27	—	—	**191.916**	T15
6179932	**EVSCFL1616K0216**	2	16	32	16	16	16	21	125	15	27	—	—	**MS1160**	T20
6179936	**EVSCFL2020K0216**	2	16	32	20	20	20	25	125	19	27	—	—	**MS1160**	T20
6179928	**EVSCFL1212K0310C**	3	10	20	12	12	12	17	125	11	22	M8X1	M8X1	**191.916**	T15
6179929	**EVSCFL1212K0316C**	3	16	32	12	12	12	17	125	11	28	M8X1	M8X1	**191.916**	T15
6179933	**EVSCFL1616K0316C**	3	16	32	16	16	16	21	125	15	28	M8X1	M8X1	**MS1160**	T20
6179937	**EVSCFL2020K0316C**	3	16	32	20	20	20	25	125	19	28	M8X1	M8X1	**MS1160**	T20

NOT: İçten soğutmalı uç yuvası özelliği 3 ve üzeri yuva ölçüsünde mevcut.

Vida	Vida	Tork				Anahtar	Anahtar
Katalog numarası	Sipariş numarası	Nm	inç lbs.	Vida dişi	Soket	Katalog numarası	Sipariş numarası
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**






Sol yönlü


Sağ yönlü

Alına kanal açma için düz dışbükey şekilli tümleşik takım tutucu • Metrik



Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	D maks.	D min.	W min.	B	H2	L1	FS	LH	CF	CS	Torx bağlama vidası	Torx
Sağ yönlü															
6080031	EVSBR2020K0312035040C	3	12	40	35	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116561	EVSBR2020K0312040050C	3	12	50	40	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T20
6116563	EVSBR2020K0312050060C	3	12	60	50	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116567	EVSBR2020K0312060075C	3	12	75	60	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116569	EVSBR2020K0312075100C	3	12	100	75	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6080067	EVSBR2525M0312100180C	3	12	180	100	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080069	EVSBR2525M0312180250C	3	12	250	180	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080053	EVSBR2525M0320060075C	3	20	75	60	25	25	34	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080055	EVSBR2525M0320075100C	3	20	100	75	25	25	34	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080057	EVSBR2525M0320100180C	3	20	180	100	25	25	34	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080060	EVSBR2525M0320180250C	3	20	250	180	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080033	EVSBR2020K0416040050C	4	16	50	40	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6080040	EVSBR2020K0416050060C	4	16	60	50	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116571	EVSBR2020K0416060075C	4	16	75	60	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116573	EVSBR2020K0416075100C	4	16	100	75	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116587	EVSBR2525M0416100180C	4	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116589	EVSBR2525M0416180250C	4	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116575	EVSBR2525M0426060075C	4	26	75	60	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116577	EVSBR2525M0426075100C	4	26	100	75	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116579	EVSBR2525M0426100180C	4	26	180	100	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116581	EVSBR2525M0426180250C	4	26	250	180	25	25	34	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080035	EVSBR2525M0516050060C	5	16	60	50	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124200	EVSBR2525M0516060075C	5	16	60	60	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30

(devamı)

(Alına kanal açma için düz dışbükey şekilli tümleşik takım tutucu • Metrik — devamı)



Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	D maks.	D min.	W min.	B	H2	L1	FS	LH	CF	CS	Torx bağlama vidası	Torx
6124214	EVSBR2525M0516075100C	5	16	100	75	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124218	EVSBR2525M0516100180C	5	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124222	EVSBR2525M0516180250C	5	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124226	EVSBR2525M0516250350C	5	16	350	250	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124230	EVSBR2525M0516350999C	5	16	999	350	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124198	EVSBR2525M0526050060C	5	26	60	50	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124212	EVSBR2525M0526060075C	5	26	60	60	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124216	EVSBR2525M0526075100C	5	26	100	75	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124235	EVSBR3232P0532100180C	5	32	180	100	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124237	EVSBR3232P0532180250C	5	32	250	180	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124239	EVSBR3232P0532250350C	5	32	350	250	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124241	EVSBR3232P0532350999C	5	32	999	350	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124605	EVSBR2525M0616060075C	6	16	75	60	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124609	EVSBR2525M0616075100C	6	16	100	75	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124673	EVSBR2525M0616100180C	6	16	180	100	25	25	31	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124677	EVSBR2525M0616180250C	6	16	250	180	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124681	EVSBR2525M0616250350C	6	16	350	250	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124685	EVSBR2525M0616350999C	6	16	999	350	25	25	34	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124607	EVSBR2525M0626060075C	6	26	75	60	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124671	EVSBR2525M0626075100C	6	26	100	75	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124689	EVSBR3232P0632100180C	6	32	180	100	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124691	EVSBR3232P0632180250C	6	32	250	180	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124693	EVSBR3232P0632250350C	6	32	350	250	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124695	EVSBR3232P0632350999C	6	32	999	350	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
Sol yönlü															
6080037	EVSBL2020K0312035040C	3	12	40	35	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116562	EVSBL2020K0312040050C	3	12	50	40	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116564	EVSBL2020K0312050060C	3	12	60	50	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116568	EVSBL2020K0312060075C	3	12	75	60	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116570	EVSBL2020K0312075100C	3	12	100	75	20	20	29	125	19	33	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6080068	EVSBL2525M0312100180C	3	12	180	100	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080070	EVSBL2525M0312180250C	3	12	250	180	25	25	34	150	24	33	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080054	EVSBL2525M0320060075C	3	20	75	60	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080056	EVSBL2525M0320075100C	3	20	100	75	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080059	EVSBL2525M0320100180C	3	20	180	100	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080061	EVSBL2525M0320180250C	3	20	250	180	25	25	35	150	24	41	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080038	EVSBL2020K0416040050C	4	16	50	40	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6080051	EVSBL2020K0416050060C	4	16	60	50	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116572	EVSBL2020K0416060075C	4	16	75	60	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116574	EVSBL2020K0416075100C	4	16	100	75	20	20	29	125	18	37	1/16 - 27 NPTF	1/16 - 27 NPTF	MS1595	T30
6116588	EVSBL2525M0416100180C	4	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116590	EVSBL2525M0416180250C	4	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116576	EVSBL2525M0426060075C	4	26	75	60	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116578	EVSBL2525M0426075100C	4	26	100	75	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30

(devamı)

(Alına kanal açma için düz dışbükey şekilli tümleşik takım tutucu • Metrik — devamı)



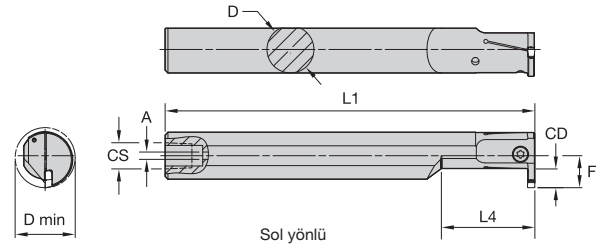
Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	D maks.	D min.	W min.	B	H2	L1	FS	LH	CF	CS	Torx bağlama vidası	Torx
6116580	EVSBL2525M0426100180C	4	26	180	100	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6116582	EVSBL2525M0426180250C	4	26	250	180	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6080039	EVSBL2525M0516050060C	5	16	60	50	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124211	EVSBL2525M0516060075C	5	16	60	60	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124215	EVSBL2525M0516075100C	5	16	100	75	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124219	EVSBL2525M0516100180C	5	16	180	100	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124223	EVSBL2525M0516180250C	5	16	250	180	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124227	EVSBL2525M0516250350C	5	16	350	250	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124232	EVSBL2525M0516350999C	5	16	999	350	25	25	34	150	23	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124199	EVSBL2525M0526050060C	5	26	60	50	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124213	EVSBL2525M0526060075C	5	26	60	60	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124217	EVSBL2525M0526075100C	5	26	100	75	25	25	35	150	23	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124236	EVSBL3232P0532100180C	5	32	180	100	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124238	EVSBL3232P0532180250C	5	32	250	180	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124240	EVSBL3232P0532250350C	5	32	350	250	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124242	EVSBL3232P0532350999C	5	32	999	350	32	32	42	170	30	53	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124606	EVSBL2525M0616060075C	6	16	75	60	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124610	EVSBL2525M0616075100C	6	16	100	75	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124674	EVSBL2525M0616100180C	6	16	180	100	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124678	EVSBL2525M0616180250C	6	16	250	180	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124682	EVSBL2525M0616250350C	6	16	350	250	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124686	EVSBL2525M0616350999C	6	16	999	350	25	25	35	150	22	37	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124608	EVSBL2525M0626060075C	6	26	75	60	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124672	EVSBL2525M0626075100C	6	26	100	75	25	25	35	150	22	47	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1970	T30
6124690	EVSBL3232P0632100180C	6	32	180	100	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124692	EVSBL3232P0632180250C	6	32	250	180	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124694	EVSBL3232P0632250350C	6	32	350	250	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45
6124696	EVSBL3232P0632350999C	6	32	999	350	32	32	43	170	29	55	1/8 - 27 NPTF	1/8 - 27 NPTF	MS1490	T45

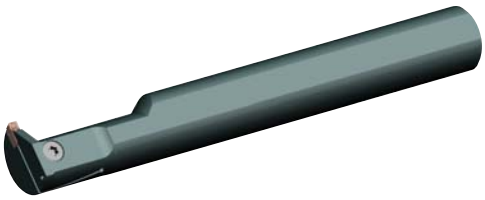
NOT: İçten soğutmalı uç yuvası özelliği 3 ve üzeri yuva ölçüsünde mevcut.

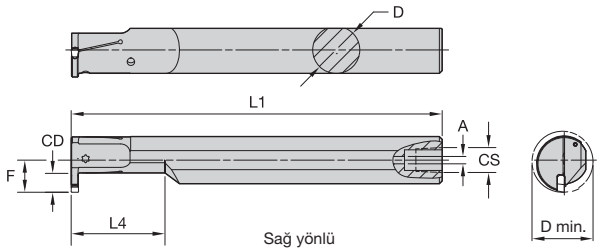
Vida Katalog numarası	Vida Sipariş numarası	Tork Nm	Tork inç lbs.	Vida dişi	Soket	Anahtar Katalog numarası	Anahtar Sipariş numarası
MS1160	1099645	7	62	M5	T20	KT20	1022703
MS1162	1127019	9	80	M6	T25	KT25	1022725
MS1163	1124104	18	159	M8	T30	KT30L	1099676
MS1273	1020977	4	35.4	M4	T15	KT15	1022701
MS1490	2263299	17	151	M8	T45	KT45	1018227
MS1595	1094300	12	106	M6	T30	KT30	1099676
MS1970	1106668	12	106	M6	T30	KT30	1099676
MS2002	1621087	9	80	M6	T25	KT25	1022725
MS2091	1931147	9	80	M5	25IP	K25IP	2050113

- İç çapta kanal açma uygulamalarında kullanım için.
- Maksimum destek.
- İçten soğutmalı özellikli çelik delik işleme barası.



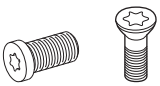



Sol yönlü




Sağ yönlü

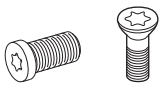
Çelik delik işleme barası • Metrik



Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	D	D min.	L1	F	L4	A	CS	Torx bağlama vidası	Torx bağlama vidası	Torx
Sağ yönlü													
5980518	**A12KEVEMR1F05M**	1F	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPT	–	**MS1285**	T15
5980520	**A16MEVEMR1F07M**	1F	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPT	–	**MS1273**	T15
5980622	**A20QEVEMR1F07M**	1F	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	–	**MS1160**	T20
5980519	**A12KEVEMR0205M**	2	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPTF	–	**MS1285**	T15
5980621	**A16MEVEMR0207M**	2	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPTF	–	**MS1273**	T15
5980623	**A20QEVEMR0207M**	2	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	–	**MS1160**	T20
5980624	**A25REVEMR0210M**	2	10,00	25	32	200	18	50,0	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954259	**A16MEVEMR0307M**	3	7,00	16	20	150	11	40,3	4,00	1/8 - 27 NPT	–	**MS1273**	T15
5954260	**A20QEVEMR0307M**	3	7,00	20	25	180	13	40,3	4,00	1/8 - 27 NPT	–	**MS1160**	T20
5954281	**A25REVEMR0310M**	3	10,00	25	32	200	17	50,3	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954283	**A32SEVEMR0312M**	3	12,00	32	40	250	22	64,0	6,40	1/4 - 18 NPT	**MS1595**	–	T30
5954282	**A25REVEMR0410M**	4	10,00	25	32	200	17	50,3	6,40	1/4 - 18 NPT	–	**MS1162**	T25
5954284	**A32SEVEMR0412M**	4	12,00	32	40	250	22	64,0	6,40	1/4 - 18 NPT	**MS1595**	–	T30

(devamı)

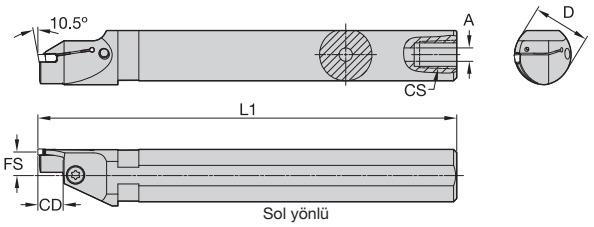
(Çelik delik işleme barası • Metrik — devamı)

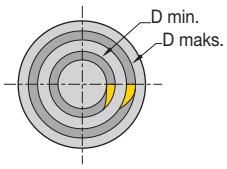


Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	D	D min.	L1	F	L4	A	CS	Torx bağlama vidası	Torx bağlama vidası	Torx
Sol yönlü													
5980625	**A12KEVEML1F05M**	1F	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPTF	—	**MS1285**	T15
5980627	**A16MEVEML1F07M**	1F	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPTF	—	**MS1273**	T15
5980629	**A20QEVEML1F07M**	1F	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	—	**MS1160**	T20
5980626	**A12KEVEML0205M**	2	5,00	12	16	125	9	24,0	4,00	1/16 - 27 NPTF	—	**MS1285**	T15
5980628	**A16MEVEML0207M**	2	7,00	16	20	150	11	32,0	4,00	1/8 - 27 NPTF	—	**MS1273**	T15
5980630	**A20QEVEML0207M**	2	7,00	20	25	180	13	40,0	4,00	1/8 - 27 NPTF	—	**MS1160**	T20
5980631	**A25REVEML0210M**	2	10,00	25	32	200	18	50,0	6,40	1/4 - 18 NPT	—	**MS1162**	T25
5954285	**A16MEVEML0307M**	3	7,00	16	20	150	11	40,3	4,00	1/8 - 27 NPT	—	**MS1273**	T15
5954286	**A20QEVEML0307M**	3	7,00	20	25	180	13	40,3	4,00	1/8 - 27 NPT	—	**MS1160**	T20
5954287	**A25REVEML0310M**	3	10,00	25	32	200	17	50,3	6,40	1/4 - 27 NPT	—	**MS1162**	T25
5954289	**A32SEVEML0312M**	3	12,00	32	40	250	22	64,0	6,40	1/4 - 27 NPT	**MS1595**	—	T30
5954288	**A25REVEML0410M**	4	10,00	25	32	200	17	50,3	6,40	1/4 - 18 NPT	—	**MS1162**	T25
5954290	**A32SEVEML0412M**	4	12,00	32	40	250	22	64,0	6,40	1/4 - 18 NPT	**MS1595**	—	T30

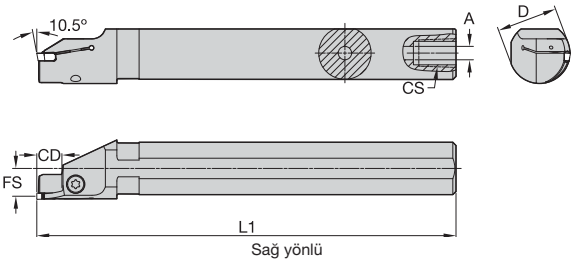
Vida	Vida	Tork				Anahtar	Anahtar
Katalog numarası	Sipariş numarası	Nm	inç lbs.	Vida dişi	Soket	Katalog numarası	Sipariş numarası
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**








Sol yönlü




Sağ yönlü

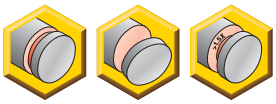
Alında kanal açma için çelik delik işleme barası • Metrik

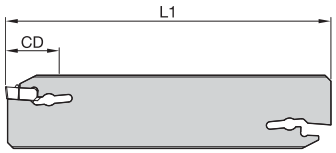


Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	D	D min.	D maks.	L1	F	CS	Torx bağlama vidası	Torx
Sağ yönlü											
6116521	**A25REVSAR0212M026030**	2	12,00	25	26	30	200	13	1/4-18 NPT	**MS1160**	T20
6116522	**A25REVSAR0312M030035**	3	12,00	25	30	35	200	13	–	**MS1162**	T25
6116297	**A32SEVSAR0312M033042**	3	12,00	32	33	42	250	16	1/4-18 NPT	**MS1162**	T25
6116299	**A40TEVSAR0312M041050**	3	12,00	40	41	50	300	20	1/4-18 NPT	**MS1162**	T25
Sol yönlü											
6116527	**A25REVSAL0212M026030**	2	12,00	25	26	30	200	13	1/4-18 NPT	**MS1160**	T20
6116528	**A25REVSAL0312M030035**	3	12,00	25	30	35	200	13	1/4-18 NPT	**MS1162**	T25
6116298	**A32SEVSAL0312M033042**	3	12,00	32	33	42	250	16	1/4-18 NPT	–	T25
6116300	**A40TEVSAL0312M041050**	3	12,00	40	41	50	300	20	1/4-18 NPT	**MS1162**	T25

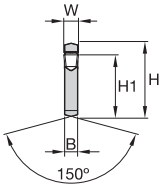
Vida Katalog numarası	Vida Sipariş numarası	Tork Nm	Tork inç lbs.	Vida dişi	Soket	Anahtar Katalog numarası	Anahtar Sipariş numarası
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

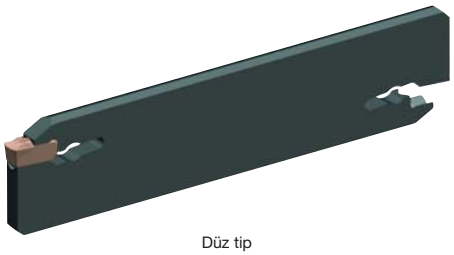
- Derin kanal açma ve kesme ve dilimleme uygulamaları için uygun.
- Tüm kesici uç geometrileri bağlantısı için genel kullanım amaçlı uç yuvası.



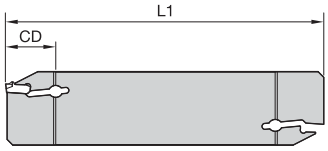


Düz tip

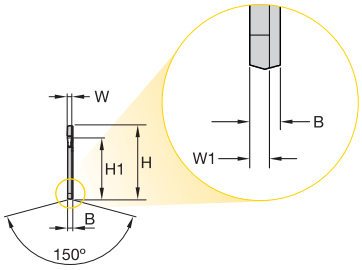


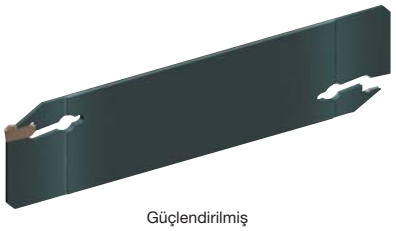


Düz tip



Güçlendirilmiş





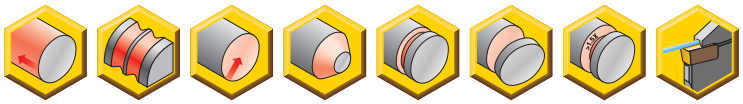
Güçlendirilmiş

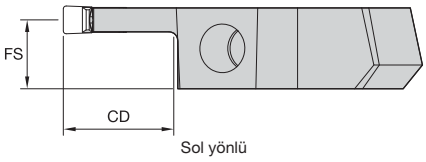
Çift uçlu kesme ve dilimleme laması

Sipariş numarası	Katalog numarası	Yuva ölçüsü	H	W	W1	H1	L1	B	CD	Montaj anahtarı
Sol yönlü										
5941706	**EVBSN19G1B14**	1B	19	1,4	1,15	15,5	90	1,80	14	**SCW5E**
5941708	**EVBSN26J1B15**	1B	26	1,4	1,15	21,5	110	1,80	15	**SCW5E**
5955391	**EVBSN19G1F16**	1F	19	1,6	1,30	15,5	90	1,80	16	**SCW5E**
5955392	**EVBSN26J1F17**	1F	26	1,6	1,30	21,5	110	1,80	17	**SCW5E**
5941707	**EVBSN19G0220**	2	19	2,0	–	15,5	90	1,65	–	**SCW5E**
5941709	**EVBSN26J0230**	2	26	2,0	–	21,5	110	1,65	–	**SCW5E**
5941710	**EVBSN26M0230**	2	26	2,0	–	21,5	150	1,65	–	**SCW5E**
5941724	**EVBSN32M0250**	2	32	2,0	–	25,1	150	1,65	–	**SCW5E**
5941721	**EVBSN26J0340**	3	26	3,0	–	21,5	110	2,40	–	**SCW5E**
5941722	**EVBSN26M0340**	3	26	3,0	–	21,5	150	2,40	–	**SCW5E**
5941725	**EVBSN32M0350**	3	32	3,0	–	25,1	150	2,40	–	**SCW5E**
5941723	**EVBSN26J0440**	4	26	4,0	–	21,5	110	3,40	–	**SCW5E**
5941726	**EVBSN32M0450**	4	32	4,0	–	25,1	150	3,40	–	**SCW5E**
5977635	**EVBSN26J0540**	5	26	5,0	–	21,5	110	4,40	–	**SCW5E**
5977637	**EVBSN32M0560**	5	32	5,0	–	25,1	150	4,40	–	**SCW5E**
5977636	**EVBSN26J0640**	6	26	6,0	–	21,5	110	5,40	–	**SCW8E**
5977638	**EVBSN32M0660**	6	32	6,0	–	25,1	150	5,40	–	**SCW8E**
5977640	**EVBSN52X06120**	6	53	6,0	–	45,3	260	5,40	–	**SCW8E**
5977639	**EVBSN32M0860**	8	32	8,0	–	25,1	150	7,00	–	**SCW8E**
5977721	**EVBSN52X08120**	8	53	8,0	–	45,3	260	7,00	–	**SCW8E**

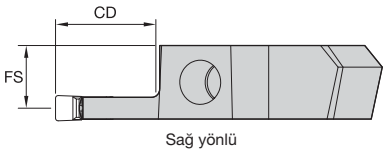
NOT: Montaj anahtarı lama ile birlikte sevk edilir.

- Özel kanal genişliği için maksimum destek ve sınırsız çap için düz boşluk.
- İçten soğutmalı uç yuvası özelliği.
- Tüm kesici uç geometrilerinin bağlanması için genel kullanım amaçlı uç yuvası.

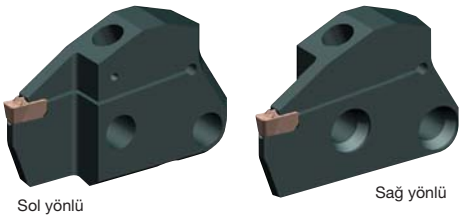




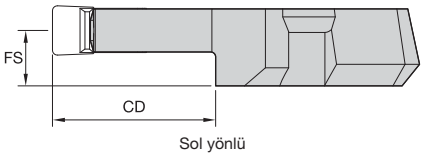
Sol yönlü



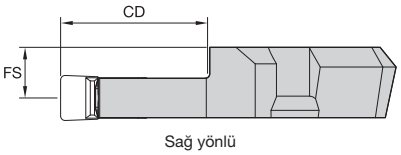
Sağ yönlü


Sol yönlü Sağ yönlü

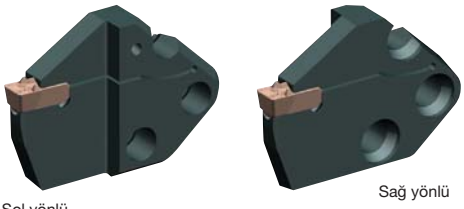
M50 lama boyutları gösterilmektedir



Sol yönlü



Sağ yönlü


Sol yönlü Sağ yönlü

M65 lama boyutları gösterilmektedir

İçten soğutmalı modüler düz lama

Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	FS	Lama ölçüsü
Sağ yönlü					
6031041	**EVM50R1F12M**	1F	12,0	11,00	50
6030969	**EVM50R0212M**	2	12,0	10,88	50
5955423	**EVM50R0216M**	2	16,0	10,88	50
5979200	**EVM50R0312MC**	3	12,0	10,43	50
5979010	**EVM50R0316MC**	3	16,0	10,43	50
5979181	**EVM50R0322MC**	3	22,0	10,43	50
5979201	**EVM50R0412MC**	4	12,0	9,93	50
5979182	**EVM50R0416MC**	4	16,0	9,93	50
5979183	**EVM50R0422MC**	4	22,0	9,93	50
5979198	**EVM50R0426MC**	4	26,0	9,93	50
5979184	**EVM50R0432MC**	4	32,0	9,93	50
6031031	**EVM50R0512MC**	5	12,0	9,43	50
6031033	**EVM50R0516MC**	5	16,0	9,43	50
5955415	**EVM50R0526MC**	5	26,0	9,43	50
5955416	**EVM50R0532MC**	5	32,0	9,43	50
6031035	**EVM65R0616MC**	6	16,0	9,88	65
5955417	**EVM65R0626MC**	6	26,0	9,88	65
6031037	**EVM65R0632MC**	6	32,0	9,88	65
6031039	**EVM65R0816MC**	8	16,0	9,00	65
5955418	**EVM65R0826MC**	8	26,0	9,00	65

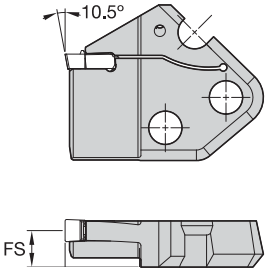
(devamı)

(İçten soğutmalı modüler düz lama — devamı)

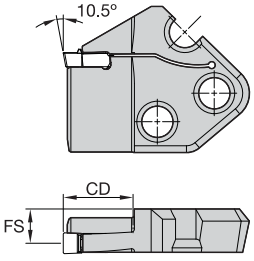
Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	FS	Lama ölçüsü
Sol yönlü					
6031042	**EVM50L1F12M**	1F	12,0	11,00	50
6030970	**EVM50L0212M**	2	12,0	10,88	50
5955424	**EVM50L0216M**	2	16,0	10,88	50
5979202	**EVM50L0312MC**	3	12,0	10,43	50
5979185	**EVM50L0316MC**	3	16,0	10,43	50
5979186	**EVM50L0322MC**	3	22,0	10,43	50
5979203	**EVM50L0412MC**	4	12,0	9,93	50
5979187	**EVM50L0416MC**	4	16,0	9,93	50
5979188	**EVM50L0422MC**	4	22,0	9,93	50
5979199	**EVM50L0426MC**	4	26,0	9,93	50
5979189	**EVM50L0432MC**	4	32,0	9,93	50
6031032	**EVM50L0512MC**	5	12,0	9,93	50
6031034	**EVM50L0516MC**	5	16,0	9,43	50
5955419	**EVM50L0526MC**	5	26,0	9,43	50
5955420	**EVM50L0532MC**	5	32,0	9,43	50
6031036	**EVM65L0616MC**	6	16,0	9,88	65
5955421	**EVM65L0626MC**	6	26,0	9,88	65
6031038	**EVM65L0632MC**	6	32,0	9,88	65
6031040	**EVM65L0816MC**	8	16,0	9,00	65
5955422	**EVM65L0826MC**	8	26,0	9,00	65

NOT: İçten soğutmalı uç yuvası özelliği 3 ve üzeri yuva ölçüsünde mevcut.

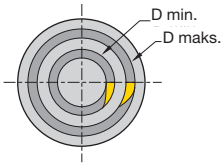




Sol yönlü



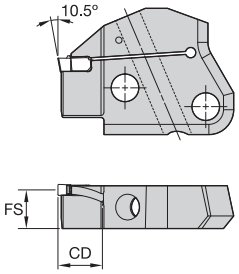
Sağ yönlü



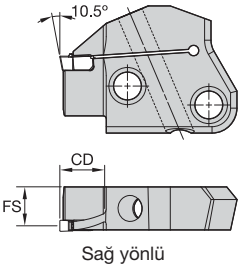

Sol yönlü


Sağ yönlü

M65 lama boyutları gösterilmektedir



Sol yönlü



Sağ yönlü


Sol yönlü


Sağ yönlü

M50 lama boyutları gösterilmektedir

İçten soğutmalı içbükey şekilli modüler alına kanal açma laması

Sipariş numarası	Katalog numarası	Yuva ölçüsü	D min.	D maks.	CD	FS	Lama ölçüsü
Sağ yönlü							
6097181	**EVM50R0312A035040C**	3	35	40	12,0	10,50	50
6097182	**EVM50R0312A040050C**	3	40	50	12,0	10,50	50
6097183	**EVM50R0312A050060C**	3	50	60	12,0	10,50	50
6097184	**EVM50R0312A060075C**	3	60	75	12,0	10,50	50
6116789	**EVM50R0312A075100C**	3	75	100	12,0	10,50	50
6117063	**EVM50R0312A100180C**	3	100	180	12,0	10,50	50
6117067	**EVM50R0312A180250C**	3	180	250	12,0	10,50	50
6117071	**EVM50R0312A250350C**	3	250	350	12,0	10,50	50
6117075	**EVM50R0312A350999C**	3	350	999	12,0	10,50	50
6097185	**EVM50R0320A075100C**	3	75	100	20,0	10,50	50
6097186	**EVM50R0320A100180C**	3	100	180	20,0	10,50	50
6097187	**EVM50R0320A180250C**	3	180	250	20,0	10,50	50
6097188	**EVM50R0320A250350C**	3	250	350	20,0	10,50	50
6097189	**EVM50R0320A350999C**	3	350	999	20,0	10,50	50
6079480	**EVM50R0416A040050C**	4	40	50	16,0	10,00	50
6079481	**EVM50R0416A050060C**	4	50	60	16,0	10,00	50
6079482	**EVM50R0416A060075C**	4	60	75	16,0	10,00	50
6079483	**EVM50R0416A075100C**	4	75	100	16,0	10,00	50
6117079	**EVM50R0416A100180C**	4	100	180	16,0	10,00	50
6117093	**EVM50R0416A180250C**	4	180	250	16,0	10,00	50
6117097	**EVM50R0416A250350C**	4	250	350	16,0	10,00	50
6117101	**EVM50R0416A350999C**	4	350	999	16,0	10,00	50
6079484	**EVM50R0426A100180C**	4	100	180	26,0	10,00	50

(devamı)

(İçten soğutmalı içbükey şekilli modüler alına kanal açma laması — devamı)

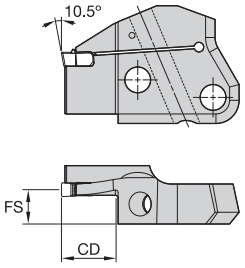
Sipariş numarası	Katalog numarası	Yuva ölçüsü	D min.	D maks.	CD	FS	Lama ölçüsü
6079485	EVM50R0426A180250C	4	180	250	26,0	10,00	50
6079486	EVM50R0426A250350C	4	250	350	26,0	10,00	50
6079487	EVM50R0426A350999C	4	350	999	26,0	10,00	50
6079488	EVM50R0520A050060C	5	50	60	20,0	9,50	50
6079489	EVM50R0520A060075C	5	60	75	20,0	9,50	50
6079490	EVM50R0520A075100C	5	75	100	20,0	9,50	50
6079491	EVM50R0520A100180C	5	100	180	20,0	9,50	50
6079492	EVM50R0520A180250C	5	180	250	20,0	9,50	50
6079493	EVM50R0520A250350C	5	250	350	20,0	9,50	50
6079494	EVM50R0520A350999C	5	350	999	20,0	9,50	50
6079223	EVM65R0620A060075C	6	60	75	20,0	9,88	65
6079224	EVM65R0620A075100C	6	75	100	20,0	9,88	65
6079225	EVM65R0620A100180C	6	100	180	20,0	9,88	65
6079226	EVM65R0620A180250C	6	180	250	20,0	9,88	65
6079227	EVM65R0620A250350C	6	250	350	20,0	9,88	65
6079228	EVM65R0620A350999C	6	350	999	20,0	9,88	65
6079229	EVM65R0820A080180C	8	80	180	20,0	9,00	65
6079230	EVM65R0820A180999C	8	180	999	20,0	9,00	65
Sol yönlü							
6097190	EVM50L0312A035040C	3	35	40	12,0	10,50	50
6097191	EVM50L0312A040050C	3	40	50	12,0	10,50	50
6097192	EVM50L0312A050060C	3	50	60	12,0	10,50	50
6097193	EVM50L0312A060075C	3	60	75	12,0	10,50	50
6116790	EVM50L0312A075100C	3	75	100	12,0	10,50	50
6117064	EVM50L0312A100180C	3	100	180	12,0	10,50	50
6117068	EVM50L0312A180250C	3	180	250	12,0	10,50	50
6117072	EVM50L0312A250350C	3	250	350	12,0	10,50	50
6117076	EVM50L0312A350999C	3	350	999	12,0	10,50	50
6097194	EVM50L0320A075100C	3	75	100	20,0	10,50	50
6097195	EVM50L0320A100180C	3	100	180	20,0	10,50	50
6097196	EVM50L0320A180250C	3	180	250	20,0	10,50	50
6097197	EVM50L0320A250350C	3	250	350	20,0	10,50	50
6097198	EVM50L0320A350999C	3	350	999	20,0	10,50	50
6079495	EVM50L0416A040050C	4	40	50	16,0	10,00	50
6079496	EVM50L0416A050060C	4	50	60	16,0	10,00	50
6079497	EVM50L0416A060075C	4	60	75	16,0	10,00	50
6079498	EVM50L0416A075100C	4	75	100	16,0	10,00	50
6117080	EVM50L0416A100180C	4	100	180	16,0	10,00	50
6117094	EVM50L0416A180250C	4	180	250	16,0	10,00	50
6117098	EVM50L0416A250350C	4	250	350	16,0	10,00	50
6117102	EVM50L0416A350999C	4	350	999	16,0	10,00	50
6079499	EVM50L0426A100180C	4	100	180	26,0	10,00	50
6079500	EVM50L0426A180250C	4	180	250	26,0	10,00	50
6079501	EVM50L0426A250350C	4	250	350	26,0	10,00	50

(devamı)

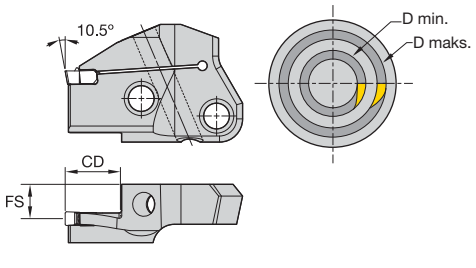
(İçten soğutmalı içbükey şekilli modüler alına kanal açma laması — devamı)

Sipariş numarası	Katalog numarası	Yuva ölçüsü	D min.	D maks.	CD	FS	Lama ölçüsü
6079502	**EVM50L0426A350999C**	4	350	999	26,0	10,00	50
6079503	**EVM50L0520A050060C**	5	50	60	20,0	9,50	50
6079504	**EVM50L0520A060075C**	5	60	75	20,0	9,50	50
6079505	**EVM50L0520A075100C**	5	75	100	20,0	9,50	50
6079506	**EVM50L0520A100180C**	5	100	180	20,0	9,50	50
6079507	**EVM50L0520A180250C**	5	180	250	20,0	9,50	50
6079508	**EVM50L0520A250350C**	5	250	350	20,0	9,50	50
6079509	**EVM50L0520A350999C**	5	350	999	20,0	9,50	50
6079234	**EVM65L0620A060075C**	6	60	75	20,0	9,88	65
6079235	**EVM65L0620A075100C**	6	75	100	20,0	9,88	65
6079236	**EVM65L0620A100180C**	6	100	180	20,0	9,88	65
6079237	**EVM65L0620A180250C**	6	180	250	20,0	9,88	65
6079238	**EVM65L0620A250350C**	6	250	350	20,0	9,88	65
6079239	**EVM65L0620A350999C**	6	350	999	20,0	9,88	65
6079240	**EVM65L0820A080180C**	8	80	180	20,0	9,00	65
6079241	**EVM65L0820A180999C**	8	180	999	20,0	9,00	65

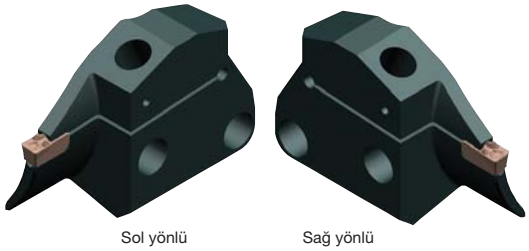
NOT: İçten soğutmalı uç yuvası özelliği 3 ve üzeri yuva ölçüsünde mevcut.



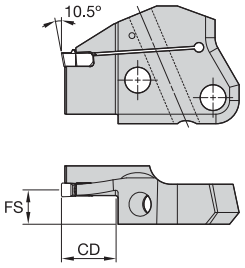
Sol yönlü



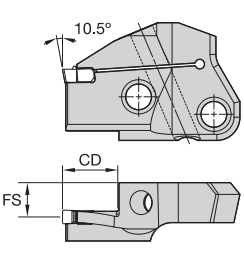
Sağ yönlü


Sol yönlü Sağ yönlü

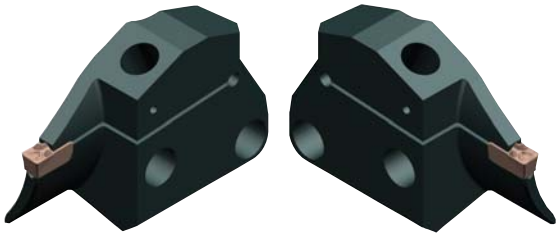
M65 lama boyutları gösterilmektedir



Sol yönlü



Sağ yönlü


Sol yönlü Sağ yönlü

M50 lama boyutları gösterilmektedir

İçten soğutmalı dışbükey şekilli modüler alına kanal açma laması

Sipariş numarası	Katalog numarası	Yuva ölçüsü	D min.	D maks.	CD	FS	Lama ölçüsü
Sağ yönlü							
6079340	**EVM50R0312B035040C**	3	35	40	12,0	10,50	50
6079411	**EVM50R0312B040050C**	3	40	50	12,0	10,50	50
6079412	**EVM50R0312B050060C**	3	50	60	12,0	10,50	50
6079413	**EVM50R0312B060075C**	3	60	75	12,0	10,50	50
6117061	**EVM50R0312B075100C**	3	75	100	12,0	10,50	50
6117065	**EVM50R0312B100180C**	3	100	180	12,0	10,50	50
6117069	**EVM50R0312B180250C**	3	180	250	12,0	10,50	50
6117073	**EVM50R0312B250350C**	3	250	350	12,0	10,50	50
6117077	**EVM50R0312B350999C**	3	350	999	12,0	10,50	50
6079414	**EVM50R0320B075100C**	3	75	100	20,0	10,50	50
6079415	**EVM50R0320B100180C**	3	100	180	20,0	10,50	50
6079416	**EVM50R0320B180250C**	3	180	250	20,0	10,50	50
6079417	**EVM50R0320B250350C**	3	250	350	20,0	10,50	50
6079418	**EVM50R0320B350999C**	3	350	999	20,0	10,50	50
6079429	**EVM50R0416B040050C**	4	40	50	16,0	10,00	50
6079430	**EVM50R0416B050060C**	4	50	60	16,0	10,00	50
6079451	**EVM50R0416B060075C**	4	60	75	16,0	10,00	50
6079452	**EVM50R0416B075100C**	4	75	100	16,0	10,00	50
6117091	**EVM50R0416B100180C**	4	100	180	16,0	10,00	50
6117095	**EVM50R0416B180250C**	4	180	250	16,0	10,00	50
6117099	**EVM50R0416B250350C**	4	250	350	16,0	10,00	50
6117103	**EVM50R0416B350999C**	4	350	999	16,0	10,00	50
6079453	**EVM50R0426B100180C**	4	100	180	26,0	10,00	50

(devamı)

(İçten soğutmalı dışbükey şekilli modüler alına kanal açma laması — devamı)

Sipariş numarası	Katalog numarası	Yuva ölçüsü	D min.	D maks.	CD	FS	Lama ölçüsü
6079454	EVM50R0426B180250C	4	180	250	26,0	10,00	50
6079455	EVM50R0426B250350C	4	250	350	26,0	10,00	50
6079456	EVM50R0426B350999C	4	350	999	26,0	10,00	50
6079457	EVM50R0520B050060C	5	50	60	20,0	9,50	50
6079458	EVM50R0520B060075C	5	60	75	20,0	9,50	50
6079459	EVM50R0520B075100C	5	75	100	20,0	9,50	50
6079460	EVM50R0520B100180C	5	100	180	20,0	9,50	50
6079461	EVM50R0520B180250C	5	180	250	20,0	9,50	50
6079462	EVM50R0520B250350C	5	250	350	20,0	9,50	50
6079463	EVM50R0520B350999C	5	350	999	20,0	9,50	50
6079246	EVM65R0620B060075C	6	60	75	20,0	9,88	65
6079247	EVM65R0620B075100C	6	75	100	20,0	9,88	65
6079248	EVM65R0620B100180C	6	100	180	20,0	9,88	65
6079249	EVM65R0620B180250C	6	180	250	20,0	9,88	65
6079250	EVM65R0620B250350C	6	250	350	20,0	9,88	65
6079261	EVM65R0620B350999C	6	350	999	20,0	9,88	65
6079262	EVM65R0820B080180C	8	80	180	20,0	9,00	65
6079263	EVM65R0820B180999C	8	180	999	20,0	9,00	65
Sol yönlü							
6079420	EVM50L0312B035040C	3	35	40	12,0	10,50	50
6079421	EVM50L0312B040050C	3	40	50	12,0	10,50	50
6079422	EVM50L0312B050060C	3	50	60	12,0	10,50	50
6079423	EVM50L0312B060075C	3	60	75	12,0	10,50	50
6117062	EVM50L0312B075100C	3	75	100	12,0	10,50	50
6117066	EVM50L0312B100180C	3	100	180	12,0	10,50	50
6117070	EVM50L0312B180250C	3	180	250	12,0	10,50	50
6117074	EVM50L0312B250350C	3	250	350	12,0	10,50	50
6117078	EVM50L0312B350999C	3	350	999	12,0	10,50	50
6079424	EVM50L0320B075100C	3	75	100	20,0	10,50	50
6079425	EVM50L0320B100180C	3	100	180	20,0	10,50	50
6079426	EVM50L0320B180250C	3	180	250	20,0	10,50	50
6079427	EVM50L0320B250350C	3	250	350	20,0	10,50	50
6079428	EVM50L0320B350999C	3	350	999	20,0	10,50	50
6079464	EVM50L0416B040050C	4	40	50	16,0	10,00	50
6079465	EVM50L0416B050060C	4	50	60	16,0	10,00	50
6079466	EVM50L0416B060075C	4	60	75	16,0	10,00	50
6079467	EVM50L0416B075100C	4	75	100	16,0	10,00	50
6117092	EVM50L0416B100180C	4	100	180	16,0	10,00	50
6117096	EVM50L0416B180250C	4	180	250	16,0	10,00	50
6117100	EVM50L0416B250350C	4	250	350	16,0	10,00	50
6117104	EVM50L0416B350999C	4	350	999	16,0	10,00	50
6079468	EVM50L0426B100180C	4	100	180	26,0	10,00	50
6079469	EVM50L0426B180250C	4	180	250	26,0	10,00	50
6079470	EVM50L0426B250350C	4	250	350	26,0	10,00	50

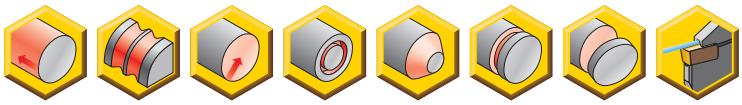
(devamı)

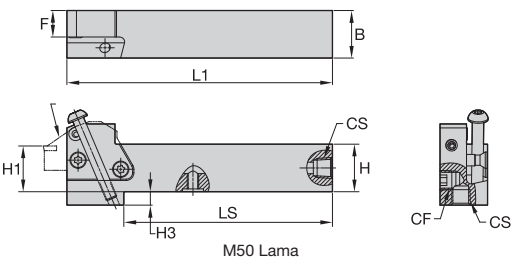
(İçten soğutmalı dışbükey şekilli modüler alına kanal açma laması — devamı)

Sipariş numarası	Katalog numarası	Yuva ölçüsü	D min.	D maks.	CD	FS	Lama ölçüsü
6079471	EVM50L0426B350999C	4	350	999	26,0	10,00	50
6079472	EVM50L0520B050060C	5	50	60	20,0	9,50	50
6079473	EVM50L0520B060075C	5	60	75	20,0	9,50	50
6079474	EVM50L0520B075100C	5	75	100	20,0	9,50	50
6079475	EVM50L0520B100180C	5	100	180	20,0	9,50	50
6079476	EVM50L0520B180250C	5	180	250	20,0	9,50	50
6079477	EVM50L0520B250350C	5	250	350	20,0	9,50	50
6079478	EVM50L0520B350999C	5	350	999	20,0	9,50	50
6079266	EVM65L0620B060075C	6	60	75	20,0	9,88	65
6079267	EVM65L0620B075100C	6	75	100	20,0	9,88	65
6079268	EVM65L0620B100180C	6	100	180	20,0	9,88	65
6079269	EVM65L0620B180250C	6	180	250	20,0	9,88	65
6079270	EVM65L0620B250350C	6	250	350	20,0	9,87	65
6079271	EVM65L0620B350999C	6	350	999	20,0	9,88	65
6079272	EVM65L0820B080180C	8	80	180	20,0	9,00	65
6079273	EVM65L0820B180999C	8	180	999	20,0	9,00	65

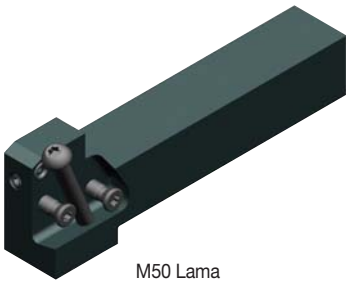
NOT: İçtn soğutmalı uç yuvası özelliği 3 ve üzeri yuva ölçüsünde mevcut.

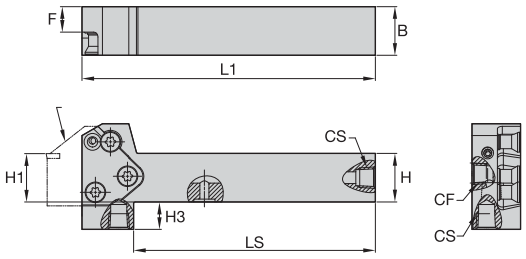
- Çok yönlülük ve kesme derinliği için birbiriyle değiştirilebilir lamalar.
- İçten soğutmalı uç yuvası özelliği.



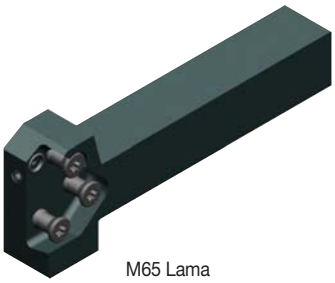


M50 Lama


M50 Lama
Sağ yönlü



M65 Lama


M65 Lama
Sağ yönlü

İçten soğutmalı modüler düz takım tutucu • Metrik

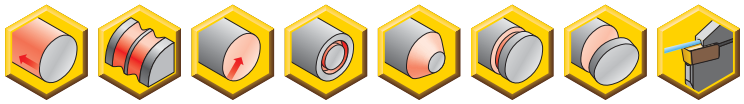


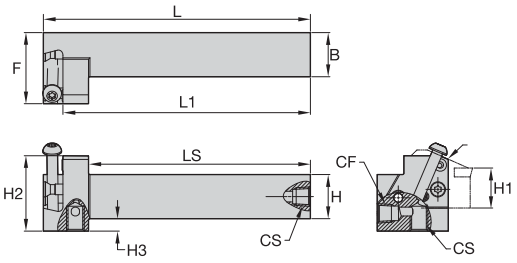

Sipariş numarası	Katalog numarası	B	H	H1	L1	F	CS	CF	LS	H3	Lama ölçüsü	Lama vidası	Torx	Bağlama vidası	Torx
Sağ yönlü															
5979190	**KGMSR2525M50C**	25	25	25	138,75	13,84	G 1/8	G 1/8	109,00	7,00	50	**MS1162**	T25	**MS2002**	T25
5979745	**KGMSR2525M65C**	25	25	25	150,00	13,00	G 1/8	G 1/8	122,00	14,00	65	**MS1163**	T30	**–**	–
5979746	**KGMSR3232P50C**	32	32	32	158,75	20,81	G 1/8	G 1/8	133,62	–	50	**MS1162**	T25	**MS2002**	T25
5979747	**KGMSR3232P65C**	32	32	32	170,00	20,00	G 1/8	G 1/8	138,50	7,00	65	**MS1163**	T30	**–**	–
Sol yönlü															
5979191	**KGMSL2525M50C**	25	25	25	138,75	13,84	G 1/8	G 1/8	109,00	7,00	50	**MS1162**	T25	**MS2002**	T25
5979748	**KGMSL2525M65C**	25	25	25	150,00	13,00	G 1/8	G 1/8	122,00	14,00	65	**MS1163**	T30	**–**	–
5979749	**KGMSL3232P50C**	32	32	32	158,75	20,80	G 1/8	G 1/8	133,62	–	50	**MS1162**	T25	**MS2002**	T25
5979750	**KGMSL3232P65C**	32	32	32	170,00	20,00	G 1/8	G 1/8	142,00	7,00	65	**MS1163**	T30	**–**	–

NOT: KGMS..: Sağ yönlü tutucu ile sağ yönlü lamalar kullanılır.
KGME..: Sağ yönlü tutucu ile sol yönlü lamalar kullanılır.
M50 lama ve bağlama vidası tork değeri 8–10 Nm (71–88 inç lbs.).
M65 lama ve bağlama vidası tork değeri 18–20 Nm (159–177 inç lbs.).

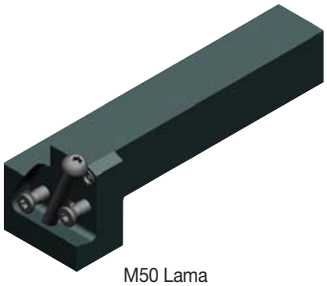
Vida	Vida	Tork				Anahtar	Anahtar
Katalog numarası	Sipariş numarası	Nm	inç lbs.	Vida dişi	Soket	Katalog numarası	Sipariş numarası
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- Çok yönlülük ve kesme derinliği için birbiriyle değiştirilebilir lamalar.
- İçten soğutmalı uç yuvası özelliği.

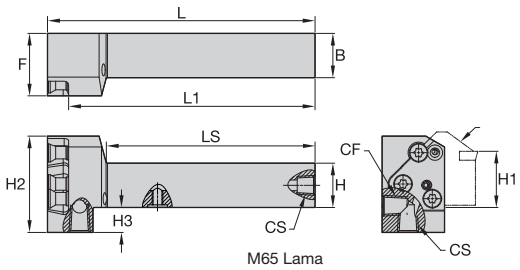




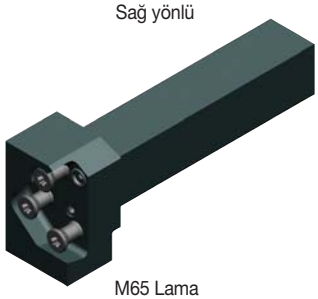
M50 Lama



M50 Lama
Sağ yönlü



M65 Lama



M65 Lama
Sağ yönlü

İçten soğutmalı uçtan bağlamalı modüler takım tutucu • Metrik

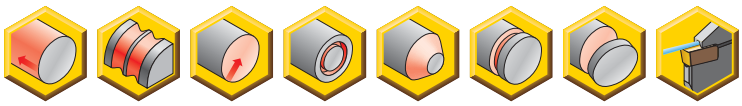


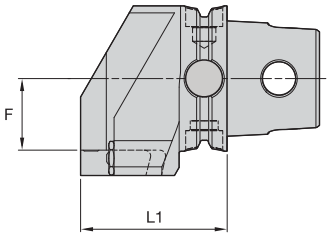
Sipariş numarası	Katalog numarası	B	H	H1	L1	F	CS	CF	LS	H3	Lama ölçüsü	Lama vidası	Torx	Bağlama vidası	Torx
Sağ yönlü															
5979765	**KGMER2525M65C**	25	25	25	138,15	35,00	G 1/8	G 1/8	117,00	14,00	65	**MS1163**	T30	**–**	–
5979192	**KGMER2525M50C**	25	25	25	139,25	40,00	G 1/8	G 1/8	124,85	7,00	50	**MS1162**	T25	**MS2002**	T25
5979767	**KGMER3232P65C**	32	32	32	158,15	35,00	G 1/8	G 1/8	137,00	7,00	65	**MS1163**	T30	**–**	–
5979766	**KGMER3232P50C**	32	32	32	159,25	40,00	G 1/8	G 1/8	145,25	–	50	**MS1162**	T25	**MS2002**	T25
Sol yönlü															
5979768	**KGMEL2525M65C**	25	25	25	138,15	35,00	G 1/8	G 1/8	117,00	14,00	65	**MS1163**	T30	**–**	–
5979193	**KGMEL2525M50C**	25	25	25	139,25	40,00	G 1/8	G 1/8	124,85	7,00	50	**MS1162**	T25	**MS2002**	T25
5979770	**KGMEL3232P65C**	32	32	32	158,15	35,00	G 1/8	G 1/8	137,00	7,00	65	**MS1163**	T30	**–**	–
5979769	**KGMEL3232P50C**	32	32	32	159,25	40,00	G 1/8	G 1/8	145,25	–	50	**MS1162**	T25	**MS2002**	T25

NOT: KGMS..: Sağ yönlü tutucu ile sağ yönlü lamalar kullanılır.
KGME..: Sağ yönlü tutucu ile sol yönlü lamalar kullanılır.
M50 lama ve bağlama vidası tork değeri 8–10 Nm (71–88 inç lbs.).
M65 lama ve bağlama vidası tork değeri 18–20 Nm (159–177 inç lbs.).

Vida	Vida	Tork				Anahtar	Anahtar
Katalog numarası	Sipariş numarası	Nm	inç lbs.	Vida dişi	Soket	Katalog numarası	Sipariş numarası
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

- Sınıfının en iyisi KM Hızlı değiştirme özellikli gövde.
- İçten soğutmalı uç yuvası özelliği.
- Çok yönlülük ve kesme derinliği için birbirleriyle değiştirilebilir kesme lamaları.






Sağ yönlü

KM™ QUICK CHANGE

İçten soğutmalı eksenel konumda KM Sistemi

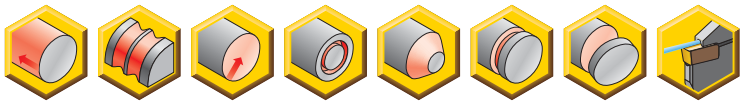


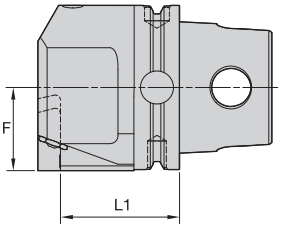


Sipariş numarası	Katalog numarası	CSMS Sistem ölçüsü	L1	F	Lama ölçüsü	Lama vidası	Torx	Sıkma vidası	Torx
Sağ yönlü									
5999790	**KM40TSKGMSR50C**	KM40TS	53,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000422	**KM50TSKGMSR65C**	KM50TS	53,5	22,0	65	**MS1163**	T30	**–**	–
5999864	**KM50TSKGMSR50C**	KM50TS	58,5	23,0	50	**MS1162**	T25	**MS2002**	T25
6000431	**KM63TSKGMSR65C**	KM63TS	58,5	30,0	65	**MS1163**	T30	**–**	–
5999948	**KM63TSKGMSR50C**	KM63TS	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
5999972	**KM63XMZKGMSR50CY**	KM63XMZ	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
6017695	**KM80TSKGMSR65C**	KM80TS	63,5	40,0	65	**MS1163**	T30	**–**	–
6000018	**KM80ATCKGMSR50C**	KM80ATC	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25
6000014	**KM80TSKGMSR50C**	KM80TS	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25
Sol yönlü									
5999861	**KM40TSKGMSL50C**	KM40TS	53,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000424	**KM50TSKGMSL65C**	KM50TS	53,5	22,0	65	**MS1163**	T30	**–**	–
5999865	**KM50TSKGMSL50C**	KM50TS	58,5	23,0	50	**MS1162**	T25	**MS2002**	T25
6000433	**KM63TSKGMSL65C**	KM63TS	58,5	30,0	65	**MS1163**	T30	**–**	–
5999949	**KM63TSKGMSL50C**	KM63TS	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
5999973	**KM63XMZKGMSLF50CY**	KM63XMZ	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
6017696	**KM80TSKGMSL65C**	KM80TS	63,5	40,0	65	**MS1163**	T30	**–**	–
6000019	**KM80ATCKGMSL50C**	KM80ATC	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25
6000015	**KM80TSKGMSL50C**	KM80TS	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25

NOT: KGMS..: Sağ yönlü tutucu ile sağ yönlü lamalar kullanılır.
KGME..: Sağ yönlü tutucu ile sol yönlü lamalar kullanılır.
M50 lama ve bağlama vidası tork değeri 8–10 Nm (71–88 inç lbs.).
M65 lama ve bağlama vidası tork değeri 18–20 Nm (159–177 inç lbs.).

- Sınıfının en iyisi KM Hızlı değiştirme özellikli gövde.
- İçten soğutmalı uç yuvası özelliği.
- Çok yönlülük ve kesme derinliği için birbirleriyle değiştirilebilir kesme lamaları.






Sağ yönlü

KM™ QUICK CHANGE

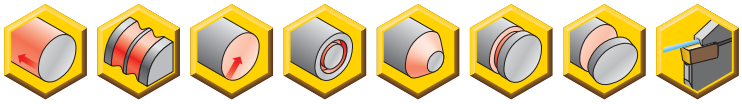
İçten soğutmalı radyal bağlamalı modüler KM Sistemi • Metrik

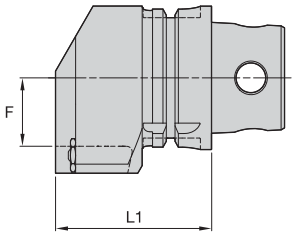


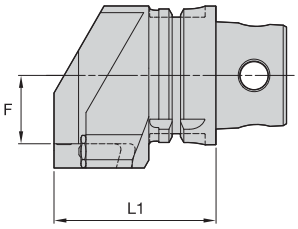

Sipariş numarası	Katalog numarası	CSMS Sistem ölçüsü	L1	F	Lama ölçüsü	Lama vidası	Torx	Sıkma vidası	Torx
Sağ yönlü									
5999788	**KM40TSKGMER50C**	KM40TS	28,0	20,50	50	**MS1162**	T25	**MS2002**	T25
5999862	**KM50TSKGMER50C**	KM50TS	38,0	25,50	50	**MS1162**	T25	**MS2002**	T25
6000410	**KM50TSKGMER65C**	KM50TS	47,0	25,50	65	**MS1163**	T30	**–**	–
6000425	**KM63TSKGMER65C**	KM63TS	47,0	32,52	65	**MS1163**	T30	**–**	–
5999946	**KM63TSKGMER50C**	KM63TS	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6000434	**KM63XMZKGMER65CY**	KM63XMZ	47,0	32,50	65	**MS1163**	T30	**–**	–
5999950	**KM63XMZKGMER50CY**	KM63XMZ	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6017697	**KM80ATCKGMER65C**	KM80ATC	57,0	40,50	65	**MS1163**	T30	**–**	–
6000016	**KM80ATCKGMER50C**	KM80ATC	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25
6017693	**KM80TSKGMER65C**	KM80TS	57,0	40,50	65	**MS1163**	T30	**–**	–
6000012	**KM80TSKGMER50C**	KM80TS	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25
Sol yönlü									
5999789	**KM40TSKGMEL50C**	KM40TS	28,0	20,50	50	**MS1162**	T25	**MS2002**	T25
5999863	**KM50TSKGMEL50C**	KM50TS	38,0	25,50	50	**MS1162**	T25	**MS2002**	T25
6000421	**KM50TSKGMEL65C**	KM50TS	47,0	25,50	65	**MS1163**	T30	**–**	–
6000430	**KM63TSKGMEL65C**	KM63TS	47,0	32,52	65	**MS1163**	T30	**–**	–
5999947	**KM63TSKGMEL50C**	KM63TS	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6000436	**KM63XMZKGMELF65CY**	KM63XMZ	47,0	32,50	65	**MS1163**	T30	**–**	–
5999971	**KM63XMZKGMELF50CY**	KM63XMZ	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6017698	**KM80ATCKGMEL65C**	KM80ATC	57,0	40,50	65	**MS1163**	T30	**–**	–
6000017	**KM80ATCKGMEL50C**	KM80ATC	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25
6017694	**KM80TSKGMEL65C**	KM80TS	57,0	40,50	65	**MS1163**	T30	**–**	–
6000013	**KM80TSKGMEL50C**	KM80TS	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25

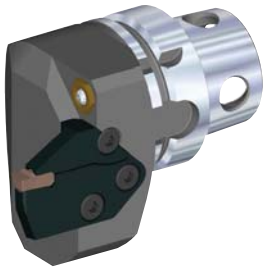
NOT: KGMS..: Sağ yönlü tutucu ile sağ yönlü lamalar kullanılır.
KGME..: Sağ yönlü tutucu ile sol yönlü lamalar kullanılır.
M50 lama ve bağlama vidası tork değeri 8–10 Nm (71–88 in. lbs.).
M65 lama ve bağlama vidası tork değeri 18–20 Nm (159–177 in. lbs.).

- Uç yuvası içinden geçen soğutma sıvısı beslemesi mümkün.
- Çok yönlülük ve kesme derinliği için birbiriyle değiştirilebilir lamalar.









Sağ yönlü

İçten soğutmalı eksenel konumda modüler KM4X™ Sistemi

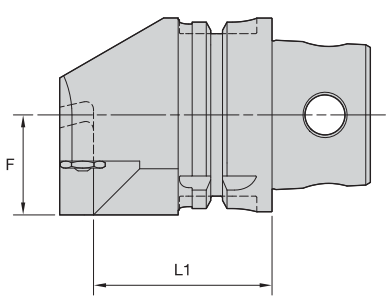


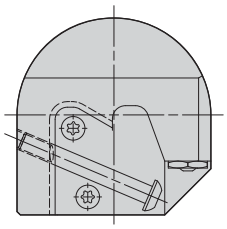


Sipariş numarası	Katalog numarası	CSMS Sistem ölçüsü	L1	F	Lama ölçüsü	Lama vidası	Torx	Sıkma vidası	Torx
Sağ yönlü									
5543560	**KM4X63KGMSR65C**	KM4X63	68,5	30,0	65	**MS1163**	T30	**–**	–
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	31,0	50	**MS1162**	T25	**MS2002**	T25
Sol yönlü									
5543558	**KM4X63KGMSL65C**	KM4X63	68,5	30,0	65	**MS1163**	T30	**–**	–
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	31,0	50	**MS1162**	T25	**MS2002**	T25

NOT: KGMS..: Sağ yönlü tutucu ile sağ yönlü lamalar kullanılır.
KGME..: Sağ yönlü tutucu ile sol yönlü lamalar kullanılır.
M50 lama ve bağlama vidası tork değeri 8–10 Nm (71–88 inç lbs.).
M65 lama ve bağlama vidası tork değeri 18–20 Nm (159–177 inç lbs.).









Sağ yönlü

İçten soğutmalı radyal bağlamalı modüler KM4X™ Sistemi

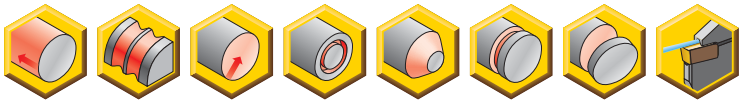


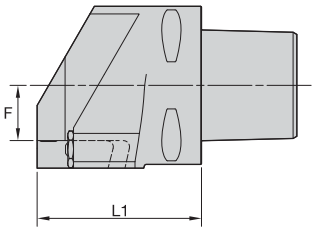


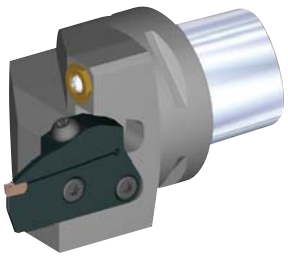


Sipariş numarası	Katalog numarası	CSMS Sistem ölçüsü	L1	F	Kartuş ölçüsü	Lama vidası	Üfleç	Sıkma vidası	kg	lbs
Sağ yönlü										
5543555	**KM4X63KGMER65C**	KM4X63	57,0	32,5	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000404	**KM4X63KGMER50C**	KM4X63	58,0	32,5	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	31,0	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11
Sol yönlü										
5543553	**KM4X63KGMEL65C**	KM4X63	57,0	32,5	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000405	**KM4X63KGMEL50C**	KM4X63	58,0	32,5	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	31,0	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11

- Standart PSC Hızlı değiştirme gövdesi.
- İçten soğutmalı uç yuvası özelliği.
- Çok yönlülük ve kesme derinliği için birbiriyle değiştirilebilir lamalar.







Sağ yönlü

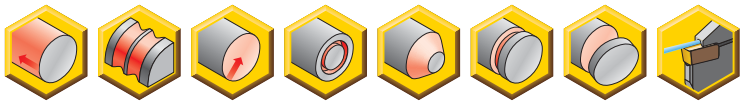
İçten soğutmalı eksenel konumda modüler PSC Sistemi

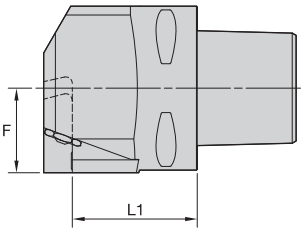


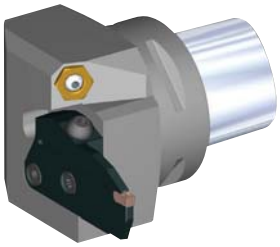


Sipariş numarası	Katalog numarası	CSMS sistem ölçüsü	L1	F	Lama ölçüsü	Lama vidası	Torx	Sıkma vidası	Torx
Sağ yönlü									
6000028	**PSC40KGMSR50C**	PSC40	63,5	10,0	50	**MS1162**	T25	**MS2002**	T25
5405654	**PSC50KGMSR65C**	PSC50	49,0	25,5	65	**MS1163**	T30	**–**	–
6000152	**PSC50KGMSR50C**	PSC50	63,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000464	**PSC63KGMSR65C**	PSC63	60,5	21,0	65	**MS1163**	T30	**–**	–
6000211	**PSC63KGMSR50C**	PSC63	65,5	22,0	50	**MS1162**	T25	**MS2002**	T25
6000468	**PSC80KGMSR65C**	PSC80	68,5	29,0	65	**MS1163**	T30	**–**	–
6000216	**PSC80KGMSR50C**	PSC80	73,5	30,0	50	**MS1162**	T25	**MS2002**	T25
Sol yönlü									
6000029	**PSC40KGMSL50C**	PSC40	63,5	10,0	50	**MS1162**	T25	**MS2002**	T25
5405655	**PSC50KGMSL65C**	PSC50	49,0	25,5	65	**MS1163**	T30	**–**	–
6000153	**PSC50KGMSL50C**	PSC50	63,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000465	**PSC63KGMSL65C**	PSC63	60,5	21,0	65	**MS1163**	T30	**–**	–
6000213	**PSC63KGMSL50C**	PSC63	65,5	22,0	50	**MS1162**	T25	**MS2002**	T25
6000469	**PSC80KGMSL65C**	PSC80	68,5	29,0	65	**MS1163**	T30	**–**	–
6000217	**PSC80KGMSL50C**	PSC80	73,5	30,0	50	**MS1162**	T25	**MS2002**	T25

- Standart PSC Hızlı değiştirme gövdesi.
- İçten soğutmalı uç yuvası özelliği.
- Çok yönlülük ve kesme derinliği için birbiriyle değiştirilebilir lamalar.







Sağ yönlü

İçten soğutmalı radyal bağlamalı modüler PSC Sistemi





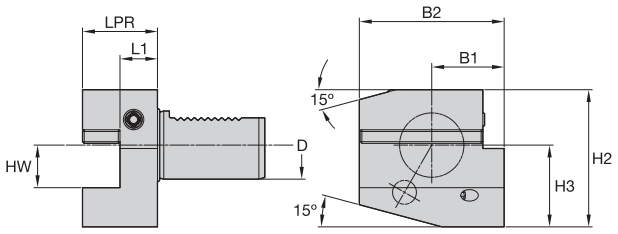
Sipariş numarası	Katalog numarası	CSMS sistem ölçüsü	L1	F	Lama ölçüsü	Lama vidası	Torx	Sıkma vidası	Torx
Sağ yönlü									
6000026	**PSC40KGMER50C**	PSC40	33,0	20,5	50	**MS1162**	T25	**MS2002**	T25
6000030	**PSC50KGMER50C**	PSC50	43,0	25,5	50	**MS1162**	T25	**MS2002**	T25
5405652	**PSC50KGMER65C**	PSC50	55,5	22,0	65	**MS1163**	T30	**–**	–
6000159	**PSC63KGMER50C**	PSC63	48,0	32,5	50	**MS1162**	T25	**MS2002**	T25
6000462	**PSC63KGMER65C**	PSC63	49,0	32,5	65	**MS1163**	T30	**–**	–
6000466	**PSC80KGMER65C**	PSC80	57,0	40,5	65	**MS1163**	T30	**–**	–
6000214	**PSC80KGMER50C**	PSC80	58,0	40,5	50	**MS1162**	T25	**MS2002**	T25
Sol yönlü									
6000027	**PSC40KGMEL50C**	PSC40	33,0	20,5	50	**MS1162**	T25	**MS2002**	T25
6000151	**PSC50KGMEL50C**	PSC50	43,0	25,5	50	**MS1162**	T25	**MS2002**	T25
5405653	**PSC50KGMEL65C**	PSC50	55,5	22,0	65	**MS1163**	T30	**–**	–
6000160	**PSC63KGMEL50C**	PSC63	48,0	32,5	50	**MS1162**	T25	**MS2002**	T25
6000463	**PSC63KGMEL65C**	PSC63	49,0	32,5	65	**MS1163**	T30	**–**	–
6000467	**PSC80KGMEL65C**	PSC80	57,0	40,5	65	**MS1163**	T30	**–**	–
6000215	**PSC80KGMEL50C**	PSC80	58,0	40,5	50	**MS1162**	T25	**MS2002**	T25

VDI Takım tutucular



- Kare şaftlı takım tutucu için içten soğutma destekli VDI adaptör.
- ISO 10889.







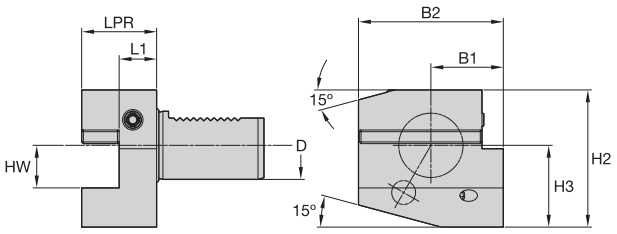
VDI Form B1 • HPC • Sağ yönlü, kısa • Metrik

Sipariş numarası	Katalog numarası	D	B2	B1	HW	H2	H3	L1	LPR
6151491	**VDIB1M302040C**	30,00	70,00	35,00	20,00	66,00	38,00	22,00	40,00
6151492	**VDIB1M402544C**	40,00	85,00	42,50	25,00	80,50	48,00	22,00	44,00

VDI Form B2 • Sol yönlü, kısa

- Kare şaftlı takım tutucu için içten soğutma destekli VDI adaptör.
- ISO 10889.







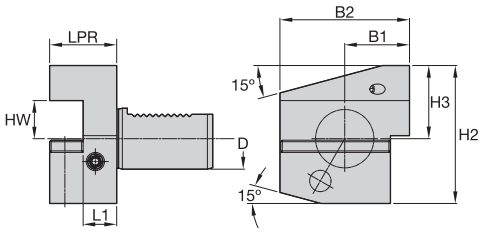
Görsel, sağ yönlü takımı gösterir. Sol yönlü takım, ayna ters yansıması karşılığıdır.

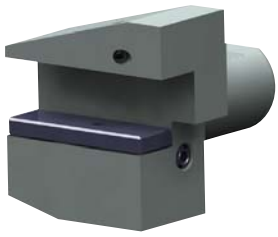
VDI Form B2 • HPC • Sol yönlü, kısa • Metrik

Sipariş numarası	Katalog numarası	D	B2	B1	HW	H2	H3	L1	LPR
6151493	**VDIB2M302040C**	30,00	70,00	35,00	20,00	66,00	38,00	22,00	40,00
6151494	**VDIB2M402544C**	40,00	85,00	42,50	25,00	80,50	48,00	22,00	44,00

- Kare kesitli şaftlı takım tutucu için içten soğutma destekli VDI adaptör.
- ISO 10889.







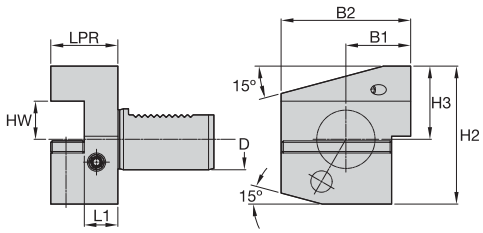
VDI Form B3 • HPC • Sağ yönlü, kısa başaşağı konumda • Metrik

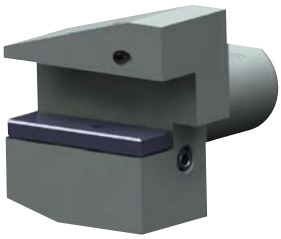
Sipariş numarası	Katalog numarası	D	B2	B1	HW	H2	H3	L1	LPR
6151495	**VDIB3M302040C**	30,00	70,00	35,00	20,00	73,00	38,00	22,00	40,00
6151497	**VDIB3M402544C**	40,00	85,00	42,50	25,00	90,50	48,00	22,00	44,00

VDI Form B4 • Sol yönlü, kısa başaşağı konumda

- Kare şaftlı takım tutucu için içten soğutma destekli VDI adaptör.
- ISO 10889.







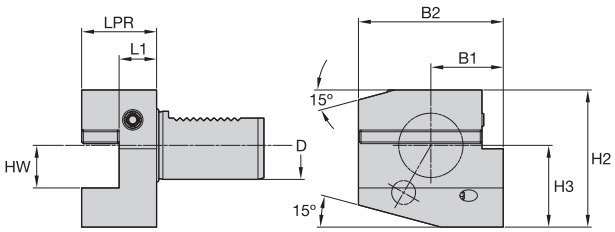
Görsel, sağ yönlü takımı gösterir. Sol yönlü takım, ayna ters yansıması karşılığıdır.

VDI Form B4 • HPC • Sol yönlü, kısa başaşağı konumda • Metrik

Sipariş numarası	Katalog numarası	D	B2	B1	HW	H2	H3	L1	LPR
6151498	**VDIB4M302040C**	30,00	70,00	35,00	20,00	73,00	38,00	22,00	40,00
6151499	**VDIB4M402544C**	40,00	85,00	42,50	25,00	90,50	48,00	22,00	44,00

- Kare şaftlı takım tutucu için içten soğutma destekli VDI adaptör.
- ISO 10889.







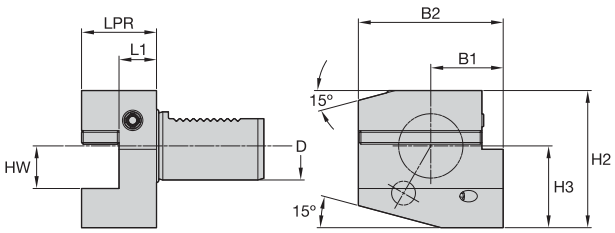
VDI Form B5 • HPC • Sağ yönlü, uzun • Metrik

Sipariş numarası	Katalog numarası	D	B2	B1	HW	H2	H3	L1	LPR
6151500	**VDIB5M302040C**	30,00	100,00	65,00	20,00	66,00	38,00	22,00	40,00
6151511	**VDIB5M402544C**	40,00	118,00	75,50	25,00	80,50	48,00	22,00	44,00

VDI Form B6 • Sol yönlü, uzun

- Kare şaftlı takım tutucu için içten soğutma destekli VDI adaptör.
- ISO 10889.







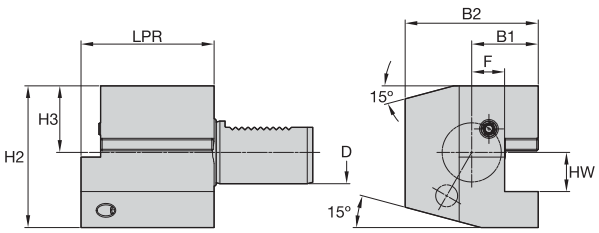
Görsel, sağ yönlü takımı gösterir. Sol yönlü takım, ayna ters yansıması karşılığıdır.

VDI Form B6 • HPC • Sol yönlü, uzun • Metrik

Sipariş numarası	Katalog numarası	D	B2	B1	HW	H2	H3	L1	LPR
6151512	**VDIB6M302040C**	30,00	100,00	65,00	20,00	66,00	38,00	22,00	40,00
6151513	**VDIB6M402544C**	40,00	118,00	75,50	25,00	80,50	48,00	22,00	44,00

- Kare şaftlı takım tutucu içten soğutma destekli VDI adaptör.
- ISO 10889.







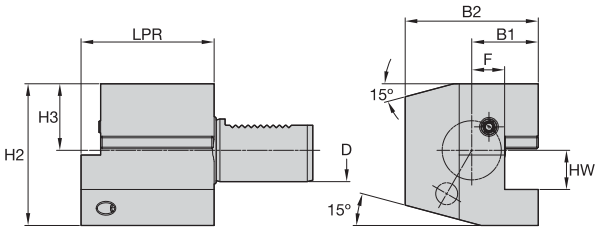
VDI Form C1 • HPC • Sağ yönlü • Metrik

Sipariş numarası	Katalog numarası	D	B2	B1	F	HW	H2	H3	LPR
6151514	**VDIC1M302070C**	30,00	70,00	35,00	17,00	20,00	66,00	38,00	70,00
6151515	**VDIC1M402585C**	40,00	85,00	42,50	21,00	25,00	80,50	48,00	85,00

VDI Form C2 • Sol yönlü

- Kare şaftlı takım tutucu için içten soğutma destekli VDI adaptör.
- ISO 10889.







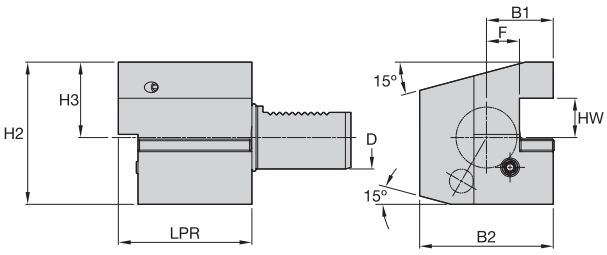
Görsel, sağ yönlü takımı gösterir. Sol yönlü takım, ayna ters yansıması karşılığıdır.

VDI Form C2 • HPC • Sol yönlü • Metrik

Sipariş numarası	Katalog numarası	D	B2	B1	F	HW	H2	H3	LPR
6151516	**VDIC2M302070C**	30,00	76,00	41,00	23,00	20,00	66,00	38,00	70,00
6151517	**VDIC2M402585C**	40,00	90,00	47,50	25,50	25,00	80,50	48,00	85,00

- Kare kesitli şaftlı takım tutucu için aiçten soğutma destekli VDI adaptör.
- ISO 10889.







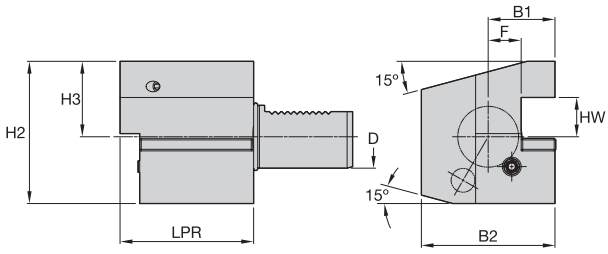
VDI Form C3 • HPC • Sağ yönlü başaşağı konumda • Metrik

Sipariş numarası	Katalog numarası	D	B2	B1	F	HW	H2	H3	LPR
6151518	**VDIC3M302070C**	30,00	70,00	35,00	17,00	20,00	73,00	38,00	70,00
6151519	**VDIC3M402585C**	40,00	85,00	42,50	21,00	25,00	90,50	48,00	85,00

VDI Form C4 • Sol yönlü başaşağı konumda

- Kare şaftlı takım tutucu için içten soğutma destekli VDI adaptör.
- ISO 10889.





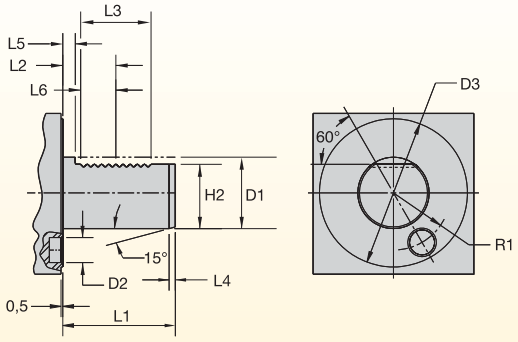


Görsel, sağ yönlü takımı gösterir. Sol yönlü takım, ayna ters yansıması karşılığıdır.

VDI Form C4 • HPC • Sol yönlü başaşağı konumda • Metrik

Sipariş numarası	Katalog numarası	D	B2	B1	F	HW	H2	H3	LPR
6151520	**VDIC4M302070C**	30,00	70,00	35,00	17,00	20,00	73,00	38,00	70,00
6151521	**VDIC4M402585C**	40,00	85,00	42,50	21,00	25,00	90,50	48,00	85,00

Şaft özellikleri



	D1	D2	D3	L1	L2	L3	L4	L5	L6	H2	R1
30	30,00	14,00	68,00	55,00	29,70	40,00	2,00	7,00	20,00	27,00	25,00
	1,181	0,551	2,677	2,165	1,169	1,575	0,079	0,276	0,787	1,063	0,984
40	40,00	14,00	83,00	63,00	29,70	40,00	3,00	7,00	20,00	36,00	32,00
	1,575	0,551	3,268	2,480	1,169	1,575	0,118	0,276	0,787	1,417	1,260
50	50,00	16,00	98,00	78,00	35,70	48,00	3,00	8,00	24,00	45,00	37,00
	1,969	0,630	3,858	3,071	1,406	1,890	0,118	0,315	0,945	1,772	1,457
60	60,00	16,00	123,00	94,00	43,70	56,00	4,00	10,00	28,00	55,00	48,00
	2,362	0,630	4,843	3,701	1,720	2,205	0,157	0,394	1,102	2,165	1,890

A4™ Takımlama ve Beyond™ Kesici uçlar



Bir çok iş parçası malzemesinde tornalama, alın tornalama, kanal açma, alına kanal açma ve kesme uygulamalarınız için A4 takımları seçilir. Eşsiz bağlama sistemi ve çok yönlü kesici uç geometrisi, çok yüksek bir talaş kaldırma oranı sağlar.

ÖZELLİKLER VE AVANTAJLAR

A4 Kanal açma ve Tornalama sistemi

- Tek bir takımla, tornalama, alın tornalama, kanal açma, alına kanal açma, dış çapta ve iç çapta kesme ve dilimleme uygulamalarını gerçekleştirmek son derece hızlı çevrim süreleri ve taret konumlandırmasına gerek kalmadan işleme anlamına gelir!
- Ekstra uzun bağlama aralığı, tabanda 120° alt prizma yatak yüzeyi ve özel üst yönlendirme rayı, eşsiz kanal açma ve kenar tornalama kararlılığı sağlamak için bir araya getirilmiştir!
- Doğru kesme için hassas kesici uç konumlandırması sağlanır!
- Rijit bağlama, en tok kesmelerde kesici ucu güvenilir bir şekilde yerine kilitler.
- Çok yönlü tasarım, tek bir sistemle dış çapta ve iç çapta kanal açma, alına kanal açma, sırt tornalama, alttan kesme ve tornada pürüzsüz vida dişi açma işlemlerinin gerçekleşmesini sağlar.
- Talaş kontrollü kesici uçlar, kanal açmada mükemmel talaş boşalması sağlar ve çok yönlü tornalamada daha iyi talaş kontrolü gerçekleştirir.

Yetkili Kennametal bayisindeki ya da **kennametal.com** adresindeki avantajlardan yaralanın.

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beyond™ EVOLUTION™

Takımı tezgahınıza bağlamak kolaydır. Sadece mevcut iki hortum paketinden birini seçerek bağlanır, etkin soğutma sıvısı kontrolü soğutma işlevini hemen yerine getirir!

Tam olarak neye ihtiyacınız olduğunu bilmiyor musunuz?

Beyond™ Evolution™ endüstrinin tercih edilen ve yaygın kullanılan tezgahlara bağlamak için Kennametal' in genel kullanım amaçlı soğutma sıvısı hortum donanımından oluşan paketleri idealdir! Her bir paket, maksimum esneklik için çeşitli bağlantı seçeneklerini içeren çok yaygın kullanılan vida dişi ölçülerini kapsamaktadır.

Genel kullanım amaçlı 200mm soğutma sıvısı hortum paketi

Sipariş numarası	Katalog numarası	Adet	malzeme tanımı
6145372	COOL-KIT-101	1	1/16 NPTF erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
		1	1/8 NPTF erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
		1	G1/8 erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
		1	M10 x 1,5 erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
		2	Erkek vida dişi JIC'den, döner dişi vida dişi JIC'e kadar dirsek
		1	200mm dişi vida dişi JIC'den dişi vida dişi JIC'e kadar

Genel kullanım amaçlı 300mm soğutma sıvısı hortum paketi

Sipariş numarası	Katalog numarası	Adet	malzeme tanımı
6145373	COOL-KIT-201	1	1/16 NPTF erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
		1	1/8 NPTF erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
		1	G1/8 erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
		1	M10 x 1,5 erkek vida dişinden 7/16 JIC vida dişine kadar rakor
		2	Erkek vida dişi JIC'den, döner dişi vida dişi JIC'e kadar dirsek
		1	300mm dişi vida dişi JIC'den dişi vida dişi JIC'e kadar

Neye ihtiyacınız olduğunu biliyor musunuz?

Daha az kullanılan bağlantı parçaları da dahil olmak üzere her bileşen tek başına da mevcuttur.
Gerekli bileşenleri tam olarak bilmek, sadece ihtiyacınız olan bağlantı parçalarını seçmenize olanak sağlayacaktır!

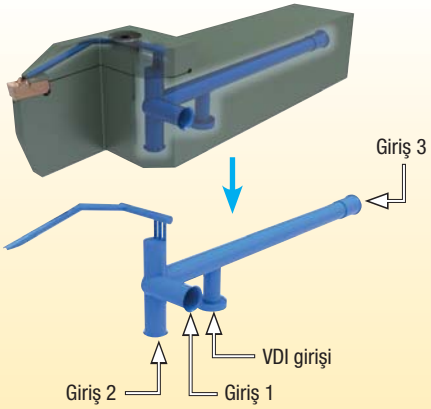
Soğutma sıvısı hortumu aksesuarları

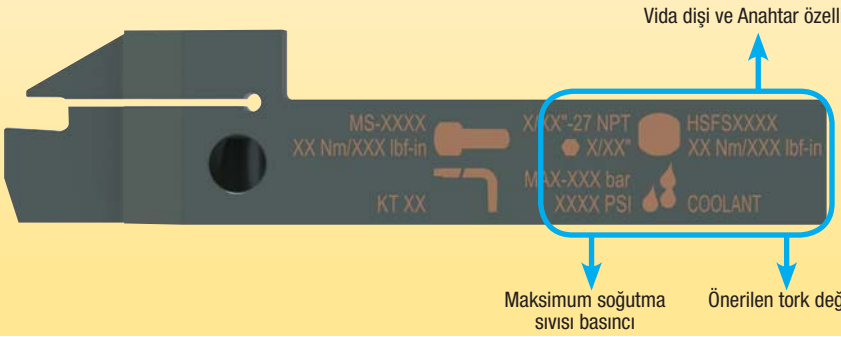
Sipariş numarası	Katalog numarası	malzeme tanımı
6145374	1-16NPTF-JIC	1/16 NPTF erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
6145375	1-8NPTF-JIC	1/8 NPTF erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
6145376	G18-JIC	G1/8 erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
6145377	M10-JIC	M10 x 1,0 erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
6145379	JICM-JICF-ELB	Erkek vida dişi JIC'den, döner dişi vida dişi JIC'e kadar dirsek
6145380	COOL-HOSE-200	200mm dişi vida dişi JIC'den dişi vida dişi JIC'e kadar
6145381	COOL-HOSE-300	300mm dişi vida dişi JIC'den dişi vida dişi JIC'e kadar
6145382	M6-JIC	M6 x 1,0 erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
6145378	M8-JIC	M8 x 1,25 erkek vida dişinden 7/16 JIC erkek vida dişine kadar rakor
6145383	JICM-JICM-STR	7/16 JIC erkek vida dişinden 7/16 JIC erkek vida dişine kadar adaptör
6145386	G14-G18-RED	Erkek vida dişi G1/4'den dişi vida dişi G1/8'e kadar kısaltma
6432549	COOL-HOSE-200-FLEX	Genel kullanım amaçlı, 200mm Esnek soğutma sıvısı hortumu
6432550	COOL-HOSE-300-FLEX	Genel kullanım amaçlı, 300mm Esnek soğutma sıvısı hortumu



Etkin soğutma sıvısı kontrol kuralları

1. 350 bar (5076 psi) basınç kapasitesine sahip Beyond™ Evolution™ sistemi.
2. Takım tutucu dört giriş delikli olarak sevk edilir.
3. Takım tutucuda soğutma sıvısı akışını ve performansını etkileyecek tıkanıklıkları önlemek için kaliteli bir filtreleme sistemi gereklidir.
4. Doğru filtreleme sistemi olmayan tezgahlar için donanım değişikliği yapılması ya da sıralı filtre düzeneği gerekebilir.
   - Basınç için >70 bar [1015 psi], 10–20 µm filtre kullanılır.
   - Basınç için <70 bar [1015 psi], 50–100 µm filtre kullanılır.
   - Düşük basınçlı uygulamalarda ince gözenekli filtre kullanılması akış hızını etkileyebilir.





Genel güvenlik kuralları

1. Bir arıza durumunda operatörün karşılaşabileceği tehlikeleri önlemek için içten soğutmalı besleme sistemini denemeden önce tüm emniyet kapakları ve mekanizmaları gerektiği şekilde yapılandırılmış olmalıdır.
2. Tutucuyu sisteme bağlanmak için doğru boru bağlantı parçaları kullanılmalıdır. Bağlantı parçaları için önerilen maksimum basıncın aşılmadığından emin olunmalıdır.
3. Basınç uygularken >80 bar [1160 psi], kesici uç bağlama sisteminin ve sızdırmazlık bağlantılarının düzgün çalışmasını sağlamak için basınç adım adım artırılır.
4. Kesici uçlar değiştirilirken, uç yuvasında talaş ve/veya kir olmadığından emin olunmalıdır. Ayrıca, kesici uç kontrol edilir ve soğutma sıvısı kanalında tıkanıklık olmadığından emin olunur.
5. Sistemin düzgün çalışması için tüm borular hasar ve aşınmaya karşı düzenli aralıklarda kontrol edilir. Bu kontrol, filtreleri de kapsamalıdır.

Etkin soğutma sıvısı kontrol performansı

İçten soğutmalı besleme, zorlu koşullarda dıştan soğutmalı sisteme göre takım ömrü ve talaş oluşumu veya boşalmasında ve yüksek basınçlı soğutma sıvısında belirgin bir avantaj sağlamaktadır.
Örnek: Çelikte dalma işleminde talaş kırma.

Dıştan soğutma sıvısı akışı

İçten soğutmalı





75 bar
(1,087 psi)



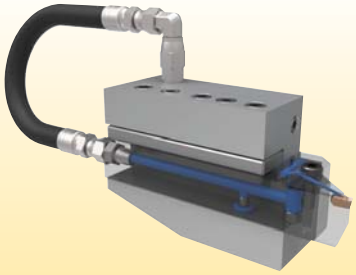
200 bar
(2,900 psi)

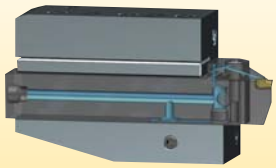
Malzeme çelik ST52;
Kesici uç ölçüsü; 6mm; f = 0,25 mm/U

Düşük basınç — Düşük soğutma sıvısı basıncı nedeniyle verimllikte düşüş tehlikesi varolduğunda, hacmi artırmak için dıştan soğutmalı sistem ile içten soğutmalı besleme birlikte uygulanır.

Takım ömrünü ve/veya verimliliği artırma önerisi: Yüksek basınçlı soğutma sıvısı uygulama: 80–350 bar önerilir.

VDI Donanımları
Beyond™ Evolution™ Etkin soğutma sıvısı kontrolünden hem geleneksel hem de hızlı değiştirilebilir soğutma sıvısı bağlantıları olan VDI bağlama sistemlerinde yararlanılabilir.





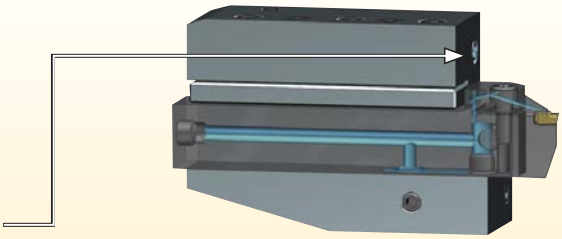


VDI adaptöründen takım tutucuya odaklı soğutma sıvısı akışı

Takım tutucu üzerinde varolan bir durum gösterge çizgisi, kesintisiz soğutma sıvısı beslemesi için VDI sisteminde belirtilen soğutma sıvısı aralığında kalmalıdır.

Teknik ayrıntılar

Basınç sınırı 80 bar.



Üfleç takımı, önceden monte edilmiş olarak gelmektedir.
İçten soğutmalı tutucu kullanılan uygulamalarda, sadece M5 vida dişli üfleç başlığı takılabilir (birlikte sevk edilir). Sızdırmazlık maddesi olarak hafif, orta dayanıklılıkta Loc Tite kullanılır veya vida dişi sızdırmazlık maddesi uygulanır.

Tutucu	Kızak mesafesi	Maks. baskı	Tork (Baskı vidaları)
VDI 30	22mm	80 bar	20 Nm
VDI 40	30mm	80 bar	35 Nm

Yedek takım kitleri	
Üfleç	PKGNLAL 1205M
Baskı vidası grubu, baskı plakası, yay	Her tip için toplu malzeme listesine (BOM) ayrı ayrı bakınız

A4™ Takımlama ve Beyond™ Kesici uçlar

Tüm dış çap ve iç çap uygulamalarınız için kullanım

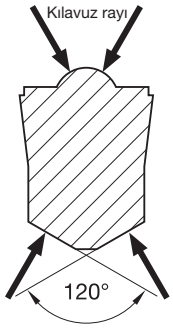
Birincil uygulama

Bir çok is parçası malzemesinde tornalama, alın tornalama, kanal açma, alına kanal açma ve kesme uygulamalarınız için A4 takımları seçilir. Eşsiz bağlama sistemi ve çok yönlü kesici uç geometrisi, çok yüksek bir talaş kaldırma oranı sağlar.

ÖZELLİKLER VE AVANTAJLAR

A4 Kanal açma ve Tornalama sistemi

- Tek bir takımla, tornalama, alın tornalama, kanal açma, alına kanal açma, dış çapta ve iç çapta kesme ve dilimleme uygulamalarını gerçekleştirmek son derece hızlı çevrim süreleri ve taret konumlandırmasına gerek kalmadan işleme anlamına gelir!
- Ekstra uzun bağlama aralığı, tabanda 120° alt prizma yatak yüzeyi ve özel üst yönlendirme rayı, eşsiz kanal açma ve kenar tornalama kararlılığı sağlamak için bir araya getirilmiştir!
- Doğru kesme için hassas kesici uç konumlandırması sağlanır!
- Rijit bağlama, en tok kesmelerde kesici ucu güvenilir bir şekilde yerine kilitler.
- Çok yönlü tasarım, tek bir sistemle dış çapta ve iç çapta kanal açma, alına kanal açma, sırt tornalama, alttan kesme ve tornada pürüzsüz vida dişi açma işlemlerinin gerçekleşmesini sağlar.
- Talaş kontrollü kesici uçlar, kanal açmada mükemmel talaş boşalması sağlar ve çok yönlü tornalamada daha iyi talaş kontrolü gerçekleştirir.



A4 Talaş kırıcılar



GMN Talaş kırıcı



GMP Talaş kırıcı



GMN Talaş kırıcı



GMP Talaş kırıcı



GUP Talaş kırıcı





A4™ Sistemi verimliliği artırır

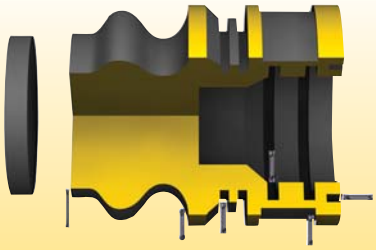
- Birden çok uygulamayı kapsar.
- Takım maliyetini düşürür.
- İşleme süresini en aza indirir.







Adım 1 • Kanal açma ve tornalama uygulaması için A4 ölçüsünü seçme



Bilinmesi gerekenler:

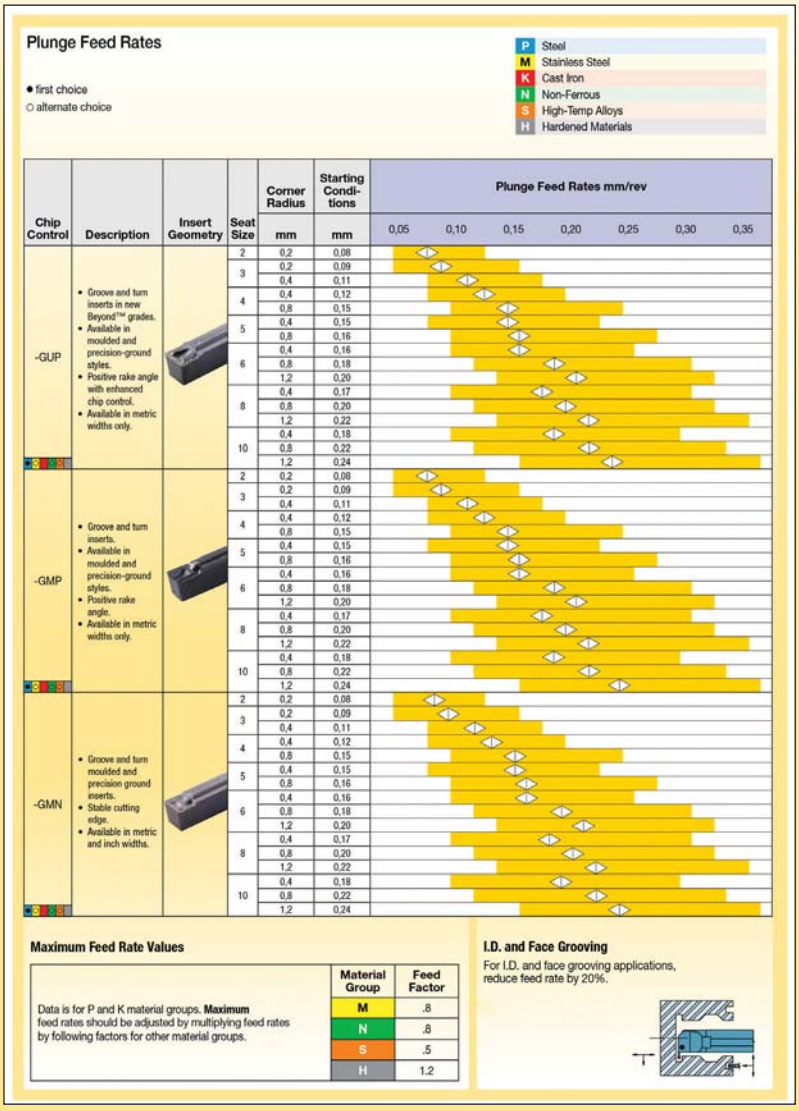
- Kanal derinliği, genişliği ve profili.
- İşlenen malzeme.
- Yapılacak uygulama (dış çapta ve iç çapta kanal açma, tornalama, alına kanal açma ve kesme-dilimleme).

Kesici uç ölçüsünü seçmek için genel öneri

Uygun olan iş parçası çapları	Kesici uç yuva ölçüsü
<25mm	3
25–50mm	4
>50mm	5-10

Adım 2 • Talaş kırıcı tipini ve ilerleme oranını seçme

Uygulama ve yuva ölçüsüne göre önerilen geometri ve başlangıç ilerleme oranı belirlenir.



Adım 3 • Başlangıç hızını seçme

Malzemeye ve kaliteye bağlı olarak başlangıç hızı (vc) tanımlanır. İlk tercih, **kalın harflerle** belirtilmiştir.

A Malzeme grubuna ve kaliteye bağlı olarak başlangıç hızı (vc) tanımlanır.
B İlk tercih başlangıç hızı **kalın harflerle** belirtilmiştir.

Recommended Starting Speeds [m/min]

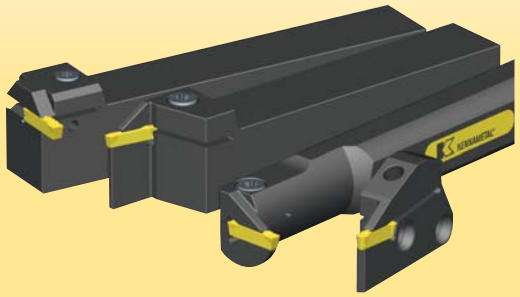
Material Group		K313			KCU10/KC5010			KCU25/KC5025			KCP10			KCP25			KCK20B			KY3500		
P	0-1	–	–	–	140	**280**	335	110	**225**	270	185	**400**	450	145	**290**	365	200	**440**	490	–	–	–
	2	–	–	–	140	**200**	245	110	**160**	195	185	**270**	350	145	**200**	305	200	**300**	380	–	–	–
	3	–	–	–	140	**155**	245	110	**125**	195	170	**190**	260	140	**155**	245	600	**200**	280	–	–	–
	4	–	–	–	75	**110**	170	60	**90**	135	90	**145**	200	75	**110**	180	100	**160**	220	–	–	–
	5	–	–	–	120	**200**	260	100	**160**	210	150	**220**	305	120	**200**	270	165	**240**	330	–	–	–
	6	–	–	–	110	**150**	230	85	**120**	185	120	**180**	275	110	**150**	230	130	**190**	300	–	–	–
M	1	60	**90**	120	140	**210**	260	90	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
	2	45	**75**	110	120	**200**	245	90	**150**	245	–	–	–	–	–	–	–	–	–	–	–	–
	3	35	**65**	100	120	**180**	245	90	**140**	210	–	–	–	–	–	–	–	–	–	– A	–	–
K	1	30	**75**	120	120	**180**	245	100	**145**	195	170	**245**	440	140	**200**	360	210	**305**	550	180	**760**	1040
	2	25	**70**	110	90	**150**	210	70	**120**	170	120	**195**	340	100	**160**	280	150	**245**	430	275	**365**	500
	3	20	**60**	90	60	**110**	150	50	**85**	120	120	**170**	270	100	**140**	220	150	**210**	335	–	–	–
N	1–2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	B	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	120	**275**	430	120	**365**	610	100	**290**	490	–	–	–	–	–	–	–	–	–	–	–	–
	5	45	**90**	150	90	**170**	245	70	**135**	195	–	–	–	–	–	–	–	–	–	–	–	–
	6	40	**75**	150	120	**210**	305	100	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
S	1	8	**30**	75	15	**55**	135	8	**40**	60	–	–	–	–	–	–	–	–	–	–	–	–
	2	8	**35**	75	15	**60**	135	8	**30**	75	–	–	–	–	–	–	–	–	–	–	–	–
	3	8	**40**	75	15	**70**	135	15	**40**	75	–	–	–	–	–	–	–	–	–	–	–	–
	4	8	**45**	75	15	**70**	170	8	**50**	110	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Adım 4 • Uygulamaya dayalı takım tutucu seçme

İlgili yuva ölçüsü ile özel kanal açma veya kesme-dilimleme uygulamanıza yönelik yüksek performanslı tutucu seçilir.

	Geleneksel takım tutucular	Modüler kesme lamaları
Dış çap kanal açma, kesme-dilimleme ve tornalama	1. Tercih	2. Tercih
Alına kanal açma	1. Tercih	2. Tercih
İç çap kanal açma, kesme-dilimleme ve tornalama	1. Tercih	—

NOT: Kesici uç yuva ölçüsü takım tutucu yuva ölçüsüne uygun olmalıdır.



Adım 5 • Katalog sayfasından kesici uç ve tutucu seçme

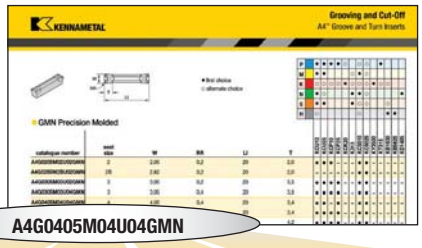
Tebrikler!

Uygulamanız için en iyi kesici uç geometrisi, kalitesi ve kesme özelliklerini seçerek verimliliğinizi en üst düzeye çıkardınız!



Katalog numaraları nasıl kullanılır ?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



A4G0405M04U04GMN

Kanal açma ve Tornalama uçları

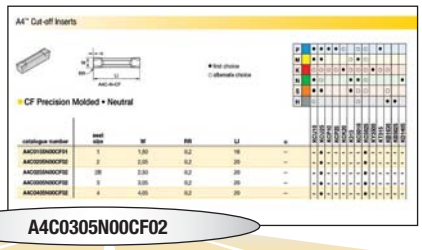
A4	G	0405	M	04	U	04	GMN
Takımlama sistemi	Kesici uç tipi	Kanal genişliği	Kanal açma genişliği için ölçüm birimi	Yuva ölçüsü	Kesici uç toleransı	Köşe radyüsleri	Talaş kırıcı tipi/ Kenar hazırlama
A4 = Kanal açma ve Tornalama	**G** = Kare **R** = Tam radyüs **C** = Kesme	1/100mm ya da .00" olarak belirtilmiştir	**M** = Metrik				**GMN =** Kanal açma ve tornalama orta işleme sabit kesme kenarı **GMP =** Kanal açma ve tornalama orta işleme pozitif kesme açısı **GUP =** Kanal açma ve tornalama yüksek pozitif geometri. Özellikle paslanmaz çelik ve ısıl dirençli alaşımlarda **B =** Özel formlar ve uygulamalar için düz uç **E =** Düz uç, hafif honlanmış kesme kenarı **S =** Negatif zırh ek honlu **ST =** Tek uç

Uç yuvası ölçüsü	Kesme genişliği (mm)
02	2,00–2,62
2B	2,39–2,62
03	3,0–3,05
04	4,0–4,05
05	5,0–5,05
06	6,0–6,05
08	8,0–8,05
10	10,0–10,05
2S	2,00–2,62
3S	3,00–3,05
4S	4,00–4,05
5S	5,00–5,05

P = Toleranslı hassas taşlanmış kanal açma:
± .001" (0,025mm)

U = Amaca uygun kalıplanmış kanal açma
Genişlik toleransı:
3,05–4,05: +0,15mm / -0
5,05–10,05: +0,25mm / -0

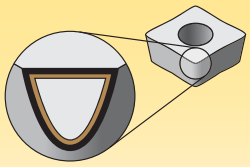
Metrik
01 = 0,1
02 = 0,2
04 = 0,4
08 = 0,8
12 = 1,2
Tam radyüs = 00



A4C0305N00CF02

Kanal açma ve Kesme-Dilimleme

A4	C	0305	N	00	CF	02
Takımlama sistemi	Kesici uç tipi	Kesme genişliği	Kesici uç yönü	Ana kesme kenarı yaklaşma açısı	Talaş kırıcı geometri tipi	Köşe radyüsü
A4 = Kanal açma ve Tornalama	**C** = Kesme ve dilimleme	1/100mm olarak belirtilmiştir	**R** = Sağ yönlü **L** = Sol yönlü **N** = Nötr	**00** = Nötr **06** = 6° **10** = 10°	**CF** = Kesme ve dilimleme hassas pozitif kesme sırtı	**mm** 02 = 0,2

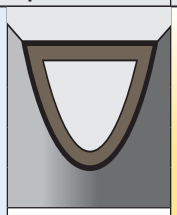
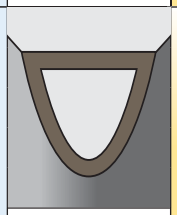


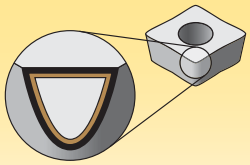
Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ← → Tokluk

Kaliteler

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
KCU10 	**Bileşim:** Biçim değişimine çok dayanıklı alaşımsız karbür altyapı üzerine gelişmiş çok katmanlı PVD kaplama. Yeni ve iyileştirilmiş kaplama, çok çeşitli hız ve ilerleme kapasitesi ile sürdürülebilir kenar sağlamlığını iyileştirir. **Uygulama:** KCU10™ kalite, çok çeşitli hız ve ilerleme kapasitesinde çoğu iş parçası malzemesinin hassas son işlenmesi ve genel kullanım amaçlı işlenmesi için idealdir. İyileştirilmiş kenar tokluğu, çentik direnci ve yüksek kesme hızı veya ilerleme özelliği ile çoğu çelik, paslanmaz çelik, dökme demir, demir dışı malzemeleri ve ısıl dirençli alaşımları işlemek için mükemmeldir.	P	P	P	P					
		M								
		K	K	K	K					
		N								
		S								
		H								
KCU25 	**Bileşim:** Sert AlTiN kaplama ve ince taneli alasımsız altyapısıyla gelişmiş PVD kalitesi. Yeni ve gelişmiş kaplama, geniş hız ve ilerleme özellikleri kapsayan ürün grubu ile kesme kenarı dayanıklılığın artırır. **Uygulama:** KCU25™ kalite, darbeli kesme ve yüksek ilerleme oranları için gelişmiş kenar tokluguyla çogu çelikleri, paslanmaz çelikleri, ısıl dirençli alaşımları, titanyumu, demirleri ve demir dışı malzemeleri geniş bir hızlar ve ilerlemeler kapsamında genel işleme için idealdir.	P				P	P	P		
		M				M	M	M		
		K				K	K	K		
		N				N	N	N		
		S				S	S	S		
KCP10 	**Bileşim:** Maksimum aşınma direnci için kalın MTCVD TiCN-Al_2O_3 kaplamalı özel olarak tasarlanmış kobalt ile zenginleştirilmiş karbür kalitesi. **Uygulama:** Çogu çelik, ferritik, martensitik ve PH paslanmaz çelikler ve dökme demir dahil çesitli iş parçası malzemeleri için hassas son işlemeden orta işlemeye kadar kullanılan mükemmel kalite. Kalın kaplama tabakaları yüksek hızda işleme için olaganüstü aşınma direnci ve krater aşınma direnci sağlarken, kobalt ile zenginlestirilmis altyapı, dengeli bir biçim değişimi direnci ve kenar toklugu birleşimi sunar. Düz pürüzsüz kaplama, kesme agzında talaş yapısmasına ve mikro talaş oluşumuna karşı direnç gösterir ve mükemmel hassas son işlemeli yüzey kaliteleri sağlar.	P	P	P	P					
		K					K	K	K	
KCP25 	**Bileşim:** Üstün ara katman tutunmasına sahip çok katmanlı MTCVD TiCN-Al_2O_3 kaplamalı tok kobalt ile zenginlestirilmiş karbür kalitesi. **Uygulama:** Çogu çelik ve ferritik ve martensitik paslanmaz çelik için en iyi genel amaçlı tornalama kalitesi. Altyapı tasarımı, mükemmel kesici uç kenar dayanıklılıgı ile yeterli biçim degisikligi direnci sağlar. Kaplama tabakaları çok çesitli işleme kosullarında iyi bir aşınma direnci sağlar ve kaplama sonrası işlemi mikro talaş oluşumunu en aza indirir ve kaplamanın altyapıya daha iyi tutunmasını ve dolayısıyla uzun takım ömrü ve gelişmiş hassas son işlemeli is parçası elde edilir.	P	P	P	P	P	P			
		K					K	K	K	
KCK20 	**Bileşim:** Aşınmaya karşı dayanıklı bir altyapı üzerinde özel olarak sertleştirilmiş MTCVD TiCN-Al_2O_3 kaplama. **Uygulama:** Kaplama tutunmasını ve kenar dayanıklılıgını en üst düzeye çıkarmak için özel olarak tasarlanmış olması bu kaliteyi düvülgen (düktil) ve gri dökme demirlerin ıslak darbeli kesmede ideal olmasını sağlar. Dayanıklılıgın ve güvenilirligin gerekli olduğu her yerde verimliliği en üst düzeye çıkarmak için hassas son işlemeden kaba işlemeye kadar olan uygulamalarda kullanılabilir.	P	P							
		K			K	K	K	K		



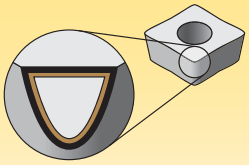
Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ⟷ **Tokluk**

Kaliteler

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
K313	**Bileşim:** Sert, düşük baglayıcı içerigi, alasımsız WC/Co ince taneli kalite. **Uygulama:** Titanyum, dökme demir, östenitik paslanmaz çelik, demir dısı metaller, metal olmayan malzemeler ve en yüksek ısıl dirençli alaşımları işlemede çok yüksek dayanıklılık ile olaganüstü kenar aşinma direnci. Üstün termal biçim değişimi direnci ve kesme derinligi çentik direncinin birleşimi. Tane yapısı, yüzey gerilimi açısından en küçük çukurları ve çatlakları iyi kontrol altına alır ve bu özellik uzun ve güvenilirlikli talaş kaldırma işlemine katkı sağlar.									
		M								
		K								
		N								
		S								
KC5010	**Bileşim:** Biçim değişimine çok dayanıklı alaşımsız karbür altyapısı üzerine gelişmiş çok katmanlı PVD AlTiN kaplama. **Uygulama:** KC5010™ kalitesi, çoğu iş parçası malzemesinin daha yüksek hızlarda hassas ve genel işlemesi için idealdir. Kararlı koşullarda çoğu çelik, paslanmaz çelik, dökme demir, demir dışı malzemeleri ve ısıl dirençli alaşımları işlemede mükemmeldir. Aynı zamanda, sertleştirilmiş ve kısa talaş veren malzemelerin işlenmesinde iyi performans gösterir.									
		P								
		M								
		K								
		N								
		S								
		H								
KC5025	**Bileşim:** Sert, son derece ince taneli alaşımsız altyapılı gelişmiş PVD-AlTiN kaplı kalite. **Uygulama:** Çoğu çelik, paslanmaz çelik, ısıl dirençli alaşım, titanyum, demir ve demir dışı malzemelerin genel amaçlı işlemesi için uygun. Hızlar, orta ile düşük arasında değişebilir ve kesintileri ve yüksek ilerleme oranları ile başa çıkar.									
		P								
		M								
		K								
		N								
		S								



Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ◄——► Tokluk

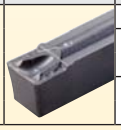
Kaliteler

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
KY3500	**Bileşim:** Saf silisyum nitrür kalitesi. **Uygulama:** Maksimum tokluk. Darbeli işleme dahil, gri dökme demirin kaba işlemesi için yüksek ilerleme oranında kullanılır.									
KT315	**Bileşim:** TiN/TiCN/TiN kaplamalı sermet, çok katmanlı bir PVD tornalama kalitesi. **Uygulama:** Çogu karbon ve alaşımlı çelik ve paslanmaz çeliklerin yüksek hızda hassas son işlemeden orta işlemeye kadar olan uygulamalar için idealdir. Dökme demir ve dövülgen (düktil) dökme demir uygulamalarında da çok iyi performans sağlar. Uzun ve tutarlı takım ömrü sağlar ve mükemmel iş parçası hassas son islemeli yüzey kalitesi üretir.									
KB1630	**Bileşim:** Kaplamasız yüksek içerikli PcBN kalite. PcBN uçlar, karbür kesici uçta lehimli. **Uygulama:** Sertleştirilmiş çelikleri (>45 HRC) darbeli kesmelerde kaba işlemeden hassas son işlemeye kadar olan uygulamalar için tasarlanmıştır. Ayrıca, gri dökme demir, sert dökme demir (kokil döküm), yüksek krom alaşımlı çelik, ısıl dirençli alaşımlar ve sinterlenmiş toz metallerde uygulanabilir. PcBN uçlu kesici uçlar, Top Notch™ ve vida bağlamalı geometriler de dahil olmak üzere çeşitli kesici uç tiplerinde mevcuttur.									
KB5625	**Bileşim:** Aşınma direnci eklemek için PVD-TiN/AlTiN kaplamalı bir orta içerikli PcBN. **Uygulama:** Sertleştirilmiş çeliklerin (>45 HRC) kaba işlemeden hassas son işlemeye kadar olan uygulamalar için tasarlanmıştır. Rulman çelikleri, sıcak ve soğuk işlenmiş çelikler, kalıp çelikleri, dış yüzeyi sertleştirilmiş çelikler, karbürlenmiş ve nitrürlenmiş demirler ve bazı sert kaplamalarda kullanılır.									
KD1405	**Bileşim:** Saf CVD (Kimyasal buharlı birikim) katmanlı elmas plaka takımı doğrudan karbür altyapısına lehimlidir. **Uygulama:** KD1405™, demir dışı metaller ve metalik olmayan malzemeler için en iyi Kennametal asınmaya dayanıklı takım malzemesidir. Aşınma direncinin istenen avantajı sağlayacağı varsayıldığında en iyi şekilde uygulanır.									

Geometri seçme

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

● İlk tercih
○ Alternatif tercih

Talaş kontrolü	Tanım	Kesici uç geometrisi	Yuva ölçüsü	Köşe radyüsü mm	Başlangıç koşulları mm	Dalma için ilerleme oranları mm/dev. 0,05	0,10	0,15	0,20	0,25	0,30	0,35
-GUP	Yeni Beyond™ kalitelerinde kanal tornalama ve tornalama uçları.		2	0,2	0,08							
			3	0,2	0,09							
				0,4	0,11							
			4	0,4	0,12							
				0,8	0,15							

Resimli kesici uç görüntüsü

Köşe radyüsü

Önerilen başlangıç ilerleme oranı

Dalma ilerleme oranları

Yuva ölçüsü

Önerilen ilerleme oranı aralığı

Birincil iş parçası Malzeme grubu

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

● İlk tercih
○ Alternatif tercih

Talaş kontrollü geometri tanımı

Maksimum ilerleme oranı değerleri

	Malzeme grubu	İlerleme faktörü
Yukarıdaki bilgi P ve K malzeme grupları içindir. Maksimum ilerleme oranları, ilerleme oranlarının diğer malzeme grupları için gösterilen faktörlerle çarpılmasıyla ayarlanmalıdır.	M	.8
	N	1.2
	S	.8
	H	.5

Dalma ilerleme oranları

● İlk tercih
○ Alternatif tercih

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Talaş kontrolü	Tanım	Kesici uç geometrisi	Yuva ölçüsü	Köşe radyüsü mm	Başlangıç koşulları mm	Dalma için ilerleme oranları mm/dev. 0,05 – 0,10 – 0,15 – 0,20 – 0,25 – 0,30 – 0,35
-GUP	• Yeni Beyond™ kalitelerinde kanal tornalama ve tornalama uçları. • Kalıplanmış ve hassas taşlanmış tiplerde mevcut. • Gelişmiş talaş kontrolü ile pozitif kesme açısı. • Sadece metrik genişliklerde mevcut.		2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,4	0,17	
				0,8	0,20	
				1,2	0,22	
			10	0,4	0,18	
				0,8	0,22	
				1,2	0,24	
-GMP	• Kanal tornalama ve tornalama uçları. • Kalıplanmış ve hassas taşlanmış tiplerde mevcut. • Pozitif kesme açısı. • Sadece metrik genişliklerde mevcut.		2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,4	0,17	
				0,8	0,20	
				1,2	0,22	
			10	0,4	0,18	
				0,8	0,22	
				1,2	0,24	
-GMN	• Kanal tornalama ve tornalama, kalıplanmış ve hassas taşlanmış kesici uçlar. • Kararlı kesme kenarı. • Metrik ve inç genişlikleri mevcut.		2	0,2	0,08	
			3	0,2	0,09	
				0,4	0,11	
			4	0,4	0,12	
				0,8	0,15	
			5	0,4	0,15	
				0,8	0,16	
			6	0,4	0,16	
				0,8	0,18	
				1,2	0,20	
			8	0,4	0,17	
				0,8	0,20	
				1,2	0,22	
			10	0,4	0,18	
				0,8	0,22	
				1,2	0,24	

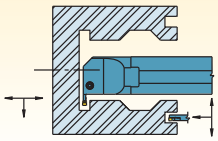
Maksimum ilerleme oranı değerleri

Yukarıdaki bilgi, P ve K malzeme grupları içindir. **Maksimum** ilerleme oranları, ilerleme değerleri ile diğer malzeme grupları için gösterilen faktörler çarpılarak ayarlanır.

Malzeme grubu	İlerleme faktörü
M	.8
N	.8
S	.5
H	1,2

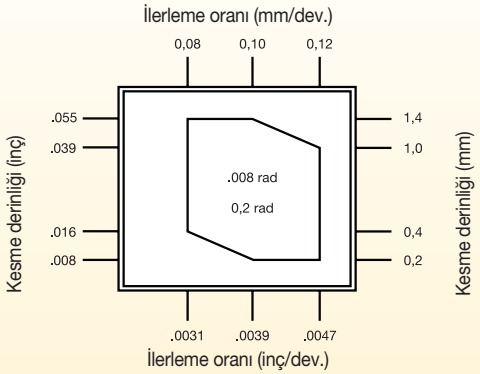
İç çapta ve alına kanal açma

İç çapta ve alına kanal açma uygulamalarında ilerleme oranı %20 azaltılır.

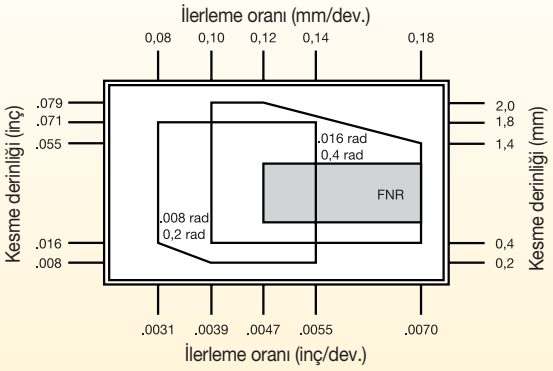


Tornalama ve Profil tornalama ilerleme oranları • GUP/GMP Geometriler

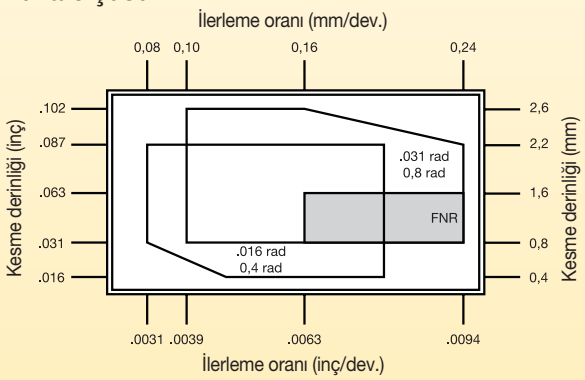
Yuva ölçüsü 2



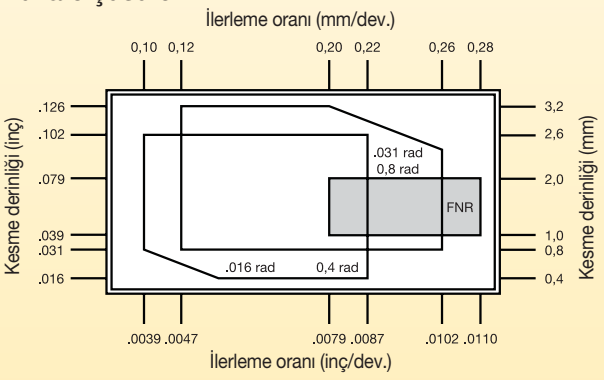
Yuva ölçüsü 3



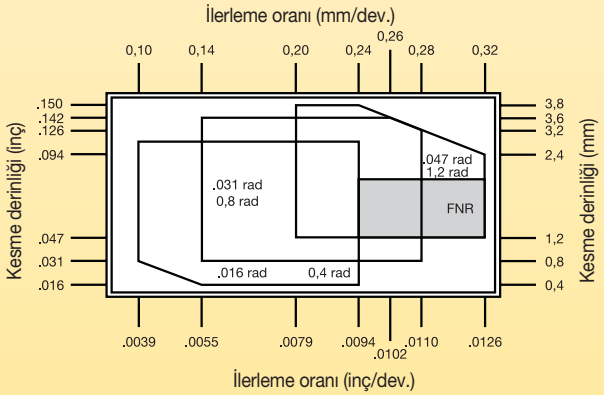
Yuva ölçüsü 4



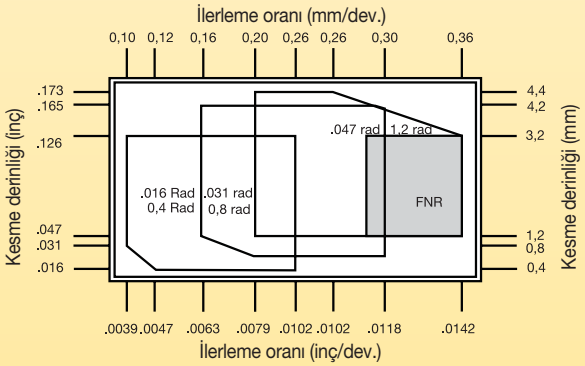
Yuva ölçüsü 5



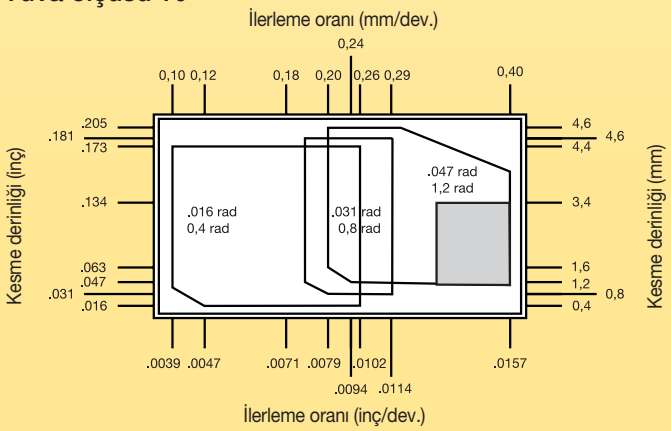
Yuva ölçüsü 6



Yuva ölçüsü 8

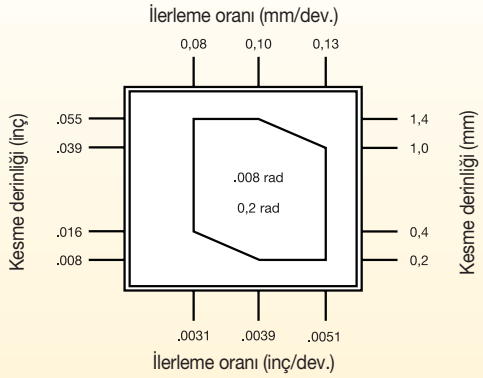


Yuva ölçüsü 10

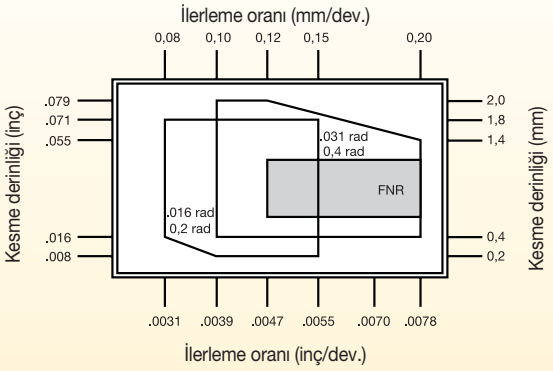


Tornalama ve profil tornalama ilerleme oranları • GMN Geometriler

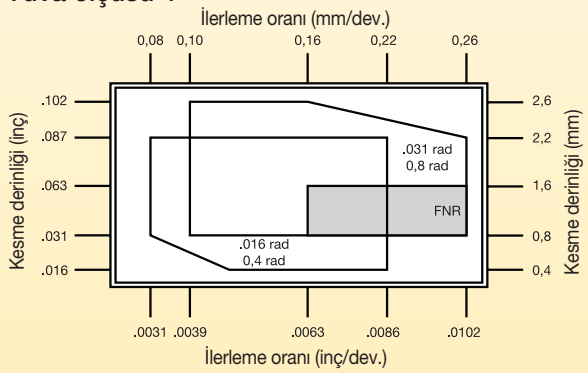
Yuva ölçüsü 2



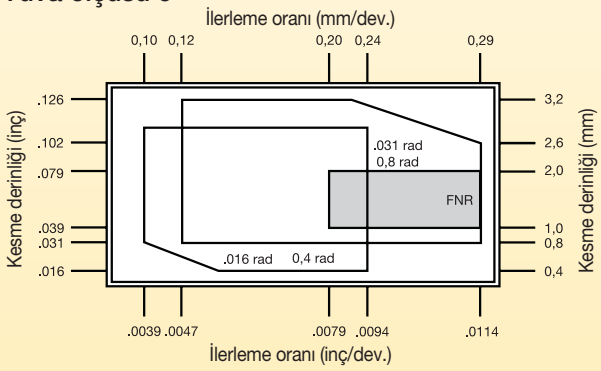
Yuva ölçüsü 3



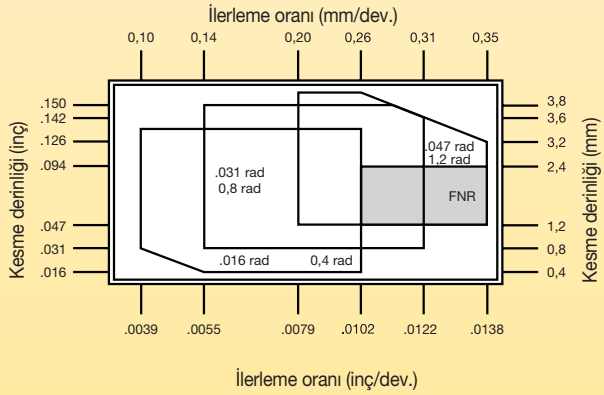
Yuva ölçüsü 4



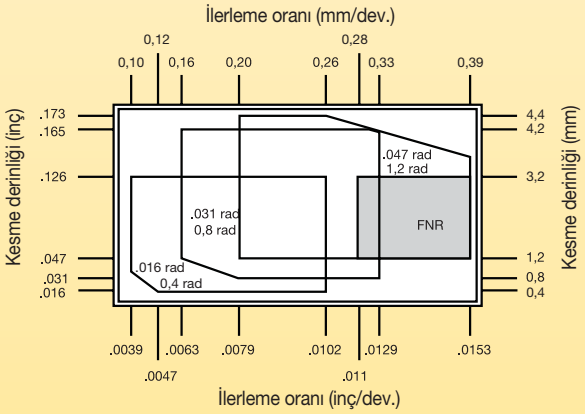
Yuva ölçüsü 5



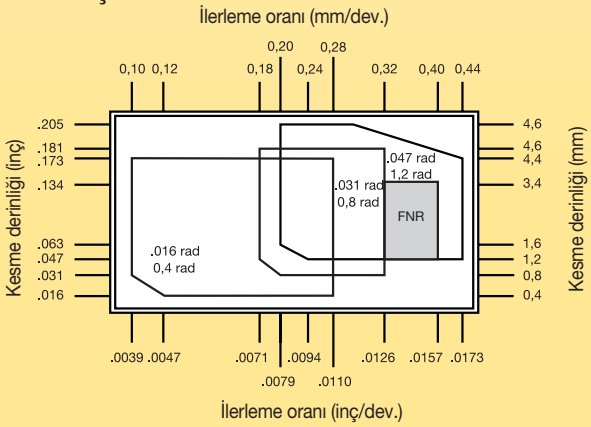
Yuva ölçüsü 6



Yuva ölçüsü 8



Yuva ölçüsü 10



Kesme ilerleme oranları

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

● İlk tercih
○ Alternatif tercih

Talaş kontrolü	Tanım	Kesici uç geometrisi	Yuva ölçüsü	Başlangıç koşulları mm	Kesme için ilerleme oranları mm/dev. 0,05 – 0,10 – 0,15 – 0,20
-A4C-CF	• Yüksek pozitif kesme açısı. • Keskin kesme kenarı. • 6° ve 10° sağ ve sol yönlü tiplerde nötr yaklaşma açısı olarak mevcut.		1	0,06	
			2/2B	0,07	
			3	0,09	
			4	0,11	

Maksimum ilerleme oranı değerleri

Yukarıdaki bilgi P ve K malzeme grupları içindir. **Maksimum** ilerleme oranları, ilerleme oranlarının diğer malzeme grupları için gösterilen faktörlerle çarpılmasıyla ayarlanmalıdır.

Malzeme grubu	İlerleme faktörü
M	.8
N	0.8
S	.5
H	1.2

Mobil uygulamalar

Kennametal mobil uygulaması, iPhone® ve Android™ gibi her iki işlemciden birine sahip cihazlarda ürün bilgisine kolay erişim sağlar. Burada özellikle bir dizi önemli işlevleri vurguladık...

Bunu kapsayan bir uygulama var.

KESME HIZLARI VE İLERLEMELER

Metal işleme takımları için kesme hızları ve ilerlemeleri ile ilgili bilgiye erişim.

ÜRÜN BULUNABİLİRLİĞİ

Ürünlerin global kullanılabilirliğini kontrol edilir. Konnect giriş bilgilerinizi sağlayarak mevcut miktarlar görüntülenir.

HESAPLAYICILAR

Frezeleme ve delme uygulamaları için işleme hesaplayıcılarımızdan yararlanılır.



Kesici uç paketindeki barkodun taranması ile takım ömrü, iş süreci ve talaş kontrolüne yönelik en verimli kesme değerlerine ve koşullarına erişim olanağı sağlanır.

NOT: Uygulama şu anda sadece İngilizce dil sürümünde bulunmaktadır. Bu uygulamanın farklı dillere çevrilerek gelecekteki sürümler ile sunulması planlanmıştır.

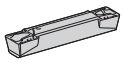
Google play | Available on the App Store

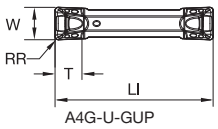
Önerilen başlangıç hızları [m/dk.]

Malzeme grubu		K313			KCU10/KC5010			KCU25/KC5025			KCP10			KCP25			KCK20B			KY3500		
P	0–1	–	–	–	140	**280**	335	110	**225**	270	185	**400**	450	145	**290**	365	200	**440**	490	–	–	–
	2	–	–	–	140	**200**	245	110	**160**	195	185	**270**	350	145	**200**	305	200	**300**	380	–	–	–
	3	–	–	–	140	**155**	245	110	**125**	195	170	**190**	260	140	**155**	245	600	**200**	280	–	–	–
	4	–	–	–	75	**110**	170	60	**90**	135	90	**145**	200	75	**110**	180	100	**160**	220	–	–	–
	5	–	–	–	120	**200**	260	100	**160**	210	150	**220**	305	120	**200**	270	165	**240**	330	–	–	–
	6	–	–	–	110	**150**	230	85	**120**	185	120	**180**	275	110	**150**	230	130	**190**	300	–	–	–
M	1	60	**90**	120	140	**210**	260	90	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
	2	45	**75**	110	120	**200**	245	90	**150**	245	–	–	–	–	–	–	–	–	–	–	–	–
	3	35	**65**	100	120	**180**	245	90	**140**	210	–	–	–	–	–	–	–	–	–	–	–	–
K	1	30	**75**	120	120	**180**	245	100	**145**	195	170	**245**	440	140	**200**	360	210	**305**	550	180	**760**	1040
	2	25	**70**	110	90	**150**	210	70	**120**	170	120	**195**	340	100	**160**	280	150	**245**	430	275	**365**	500
	3	20	**60**	90	60	**110**	150	50	**85**	120	120	**170**	270	100	**140**	220	150	**210**	335	–	–	–
N	1–2	150	**370**	610	150	**550**	975	120	**440**	780	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	120	**275**	430	120	**365**	610	100	**290**	490	–	–	–	–	–	–	–	–	–	–	–	–
	5	45	**90**	150	90	**170**	245	70	**135**	195	–	–	–	–	–	–	–	–	–	–	–	–
	6	40	**75**	150	120	**210**	305	100	**170**	245	–	–	–	–	–	–	–	–	–	–	–	–
S	1	8	**30**	75	15	**55**	135	8	**40**	60	–	–	–	–	–	–	–	–	–	–	–	–
	2	8	**35**	75	15	**60**	135	8	**30**	75	–	–	–	–	–	–	–	–	–	–	–	–
	3	8	**40**	75	15	**70**	135	15	**40**	75	–	–	–	–	–	–	–	–	–	–	–	–
	4	8	**45**	75	15	**70**	170	8	**50**	110	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	30	**45**	60	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	15	**30**	45	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Malzeme grubu		KT315			KB5625			KB1630			KD1405		
P	0–1	180	**440**	475	–	–	–	–	–	–	–	–	–
	2	195	**270**	400	–	–	–	–	–	–	–	–	–
	3	180	**210**	275	–	–	–	–	–	–	–	–	–
	4	75	**160**	210	–	–	–	–	–	–	–	–	–
	5	150	**250**	310	–	–	–	–	–	–	–	–	–
	6	140	**200**	300	–	–	–	–	–	–	–	–	–
M	1	–	–	–	–	–	–	–	–	–	–	–	–
	2	–	–	–	–	–	–	–	–	–	–	–	–
	3	–	–	–	–	–	–	–	–	–	–	–	–
K	1	60	**275**	550	–	–	–	180	**760**	1040	–	–	–
	2	135	**275**	360	–	–	–	–	–	–	–	–	–
	3	180	**230**	360	–	–	–	–	–	–	–	–	–
N	1–2	–	–	–	–	–	–	–	–	–	365	**610**	1040
	3	–	–	–	–	–	–	–	–	–	275	**480**	800
	4	–	–	–	–	–	–	–	–	–	300	**550**	920
	5	–	–	–	–	–	–	–	–	–	275	**610**	1070
	6	–	–	–	–	–	–	–	–	–	150	**460**	760
S	1	–	–	–	–	–	–	120	**200**	275	–	–	–
	2	–	–	–	–	–	–	120	**215**	275	–	–	–
	3	–	–	–	–	–	–	120	**250**	275	–	–	–
	4	–	–	–	–	–	–	–	–	–	–	–	–
H	1	–	–	–	45	**150**	230	45	**120**	170	–	–	–
	2	–	–	–	45	**140**	230	45	**110**	170	–	–	–
	3	–	–	–	45	**130**	230	45	**100**	170	–	–	–
	4	–	–	–	45	**120**	230	45	**90**	170	–	–	–

NOT: İLK tercih başlangıç hızları **kalın** harflerle yazılmıştır.
Ortalama talaş kalınlığı arttıkça hız azaltılmalıdır.



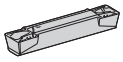


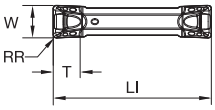
● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GUP Hassas kalıplanmış

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M02U02GUP	2	2,05	0,2	20	2,0	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0305M03U02GUP	3	3,05	0,2	20	3,0	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0305M03U04GUP	3	3,05	0,4	20	3,0	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0405M04U04GUP	4	4,05	0,4	20	3,4	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0405M04U08GUP	4	4,05	0,8	20	3,4	●	●	●	●	–	–	–	–	–	–	–	–	–
A4R0405M04U00GUP	4	4,05	–	20	–	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M05U04GUP	5	5,05	0,4	25	4,2	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0505M05U08GUP	5	5,05	0,8	25	4,2	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0605M06U04GUP	6	6,05	0,4	30	4,5	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0605M06U08GUP	6	6,05	0,8	30	4,5	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0605M06U12GUP	6	6,05	1,2	30	4,5	●	●	●	●	–	–	–	–	–	–	–	–	–
A4R0605M06U00GUP	6	6,05	–	30	4,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0805M08U08GUP	8	8,05	0,8	30	6,0	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G0805M08U12GUP	8	8,05	1,2	30	6,0	●	●	●	●	–	–	–	–	–	–	–	–	–
A4R0805M08U00GUP	8	8,05	–	30	6,5	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G1005M10U08GUP	10	10,05	0,8	30	6,0	●	●	●	●	–	–	–	–	–	–	–	–	–
A4G1005M10U12GUP	10	10,05	1,2	30	6,1	●	●	●	●	–	–	–	–	–	–	–	–	–





A4G-P-GMP

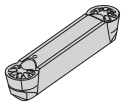
● İlk tercih
○ Alternatif tercih

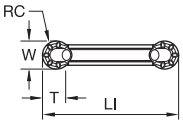
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GUP Hassas taşlanmış

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0200M02P02GUP	2	2,00	0,2	20	1,9	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G094I2BP05GUP	2B	2,38	0,2	20	1,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M03P02GUP	3	3,00	0,2	20	2,9	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M03P04GUP	3	3,00	0,4	20	2,9	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G125I03P05GUP	3	3,18	0,2	20	2,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G125I03P1GUP	3	3,18	0,4	20	2,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M04P02GUP	4	4,00	0,2	20	3,3	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M04P04GUP	4	4,00	0,4	20	3,3	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M04P08GUP	4	4,00	0,8	20	3,3	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G187I04P1GUP	4	4,76	0,4	20	3,3	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G187I04P2GUP	4	4,76	0,8	20	3,3	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0500M05P04GUP	5	5,00	0,4	25	4,1	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0500M05P08GUP	5	5,00	0,8	25	4,1	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0600M06P04GUP	6	6,00	0,4	30	4,5	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0600M06P08GUP	6	6,00	0,8	30	4,5	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G250I06P1GUP	6	6,35	0,4	30	4,4	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G250I06P2GUP	6	6,35	0,8	30	4,4	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G312I08P1GUP	8	7,94	0,4	30	5,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0800M08P08GUP	8	8,00	0,8	30	6,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0800M08P12GUP	8	8,00	1,2	30	6,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G375I10P2GUP	10	9,52	0,8	30	5,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G375I10P1GUP	10	9,53	0,4	30	5,9	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G1000M10P08GUP	10	10,00	0,8	30	6,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G1000M10P12GUP	10	10,00	1,2	30	6,0	●	●	–	–	–	–	–	–	–	–	–	–	–

● İlk tercih
○ Alternatif tercih

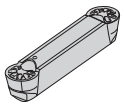


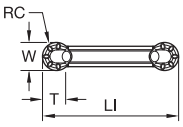


A4R-P-GUP

GUP Tam radyüslu, hassas kalıplanmış

Katalog numarası	Yuva ölçüsü	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0305M03U00GUP	3	3,05	1,5	20	–	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R0505M05U00GUP	5	5,05	2,5	25	–	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R1005M10U00GUP	10	10,05	5,0	30	–	●	●	–	–	–	–	–	–	–	–	–	–	–



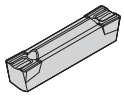


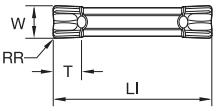
A4R-P-GUP

GUP Tam radyüslu, hassas taşlanmış

Katalog numarası	Yuva ölçüsü	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0300M03P00GUP	3	3,00	1,5	20	–	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R125I03P00GUP	3	3,18	1,6	20	–	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R0400M04P00GUP	4	4,00	2,0	20	–	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R187I04P00GUP	4	4,76	2,4	20	–	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0500M05P00GUP	5	5,00	2,5	25	–	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0600M06P00GUP	6	6,00	3,0	30	–	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R250I06P00GUP	6	6,35	3,2	30	–	●	●	–	–	–	–	–	–	–	–	–	–	–
A4R312I08P00GUP	8	7,94	4,0	30	–	●	–	–	–	–	–	–	–	–	–	–	–	–
A4R0800M08P00GUP	8	8,00	4,0	30	–	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R1000M10P00GUP	10	10,00	5,0	30	–	●	●	–	–	–	–	–	–	–	–	–	–	–

● İlk tercih
○ Alternatif tercih

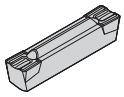


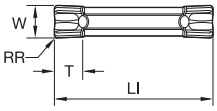


A4G-U-GMP

GMP Hassas kalıplanmış

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M02U02GMP	2	2,05	0,2	20	2,0	–	●	–	–	–	–	●	●	–	–	–	–	–
A4G0255M2BU02GMP	2B	2,62	0,2	20	2,0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4G0305M03U02GMP	3	3,05	0,2	20	3,5	●	●	–	–	–	–	●	●	–	●	–	–	–
A4G0305M03U04GMP	3	3,05	0,4	20	3,5	●	●	–	–	–	–	●	●	–	●	–	–	–
A4G0405M04U04GMP	4	4,05	0,4	20	3,4	●	●	●	●	–	–	●	●	–	●	–	–	–
A4G0405M04U08GMP	4	4,05	0,8	20	3,4	–	●	–	–	–	–	●	●	–	●	–	–	–
A4G0505M05U04GMP	5	5,05	0,4	25	4,2	●	●	●	–	–	–	●	●	–	–	–	–	–
A4G0505M05U08GMP	5	5,05	0,8	25	4,2	–	●	●	–	–	–	●	●	–	–	–	–	–
A4G0605M06U04GMP	6	6,05	0,4	30	4,9	–	–	–	●	–	–	●	●	–	–	–	–	–
A4G0605M06U08GMP	6	6,05	0,8	30	4,9	–	–	–	–	–	–	●	●	–	–	–	–	–
A4G0805M08U08GMP	8	8,05	0,8	30	6,1	–	●	–	–	–	–	–	●	–	–	–	–	–
A4G1005M10U08GMP	10	10,05	0,8	30	8,1	●	●	–	–	–	–	–	–	–	–	–	–	–

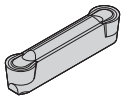


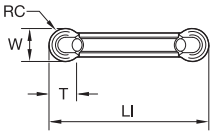


A4G-P-GMP

GMP Hassas taşlanmış

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0200M02P02GMP	2	2,00	0,2	20	2,0	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G0250M2BP02GMP	2B	2,50	0,2	20	2,0	●	–	–	–	–	–	●	–	–	–	–	–	–
A4G0300M03P02GMP	3	3,00	0,2	20	3,5	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0300M03P04GMP	3	3,00	0,4	20	3,5	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0400M04P02GMP	4	4,00	0,2	20	–	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0400M04P04GMP	4	4,00	0,4	20	3,5	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0400M04P08GMP	4	4,00	0,8	20	3,5	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G0500M05P04GMP	5	5,00	0,4	25	–	●	●	–	–	–	●	●	●	–	–	–	–	–
A4G0500M05P08GMP	5	5,00	0,8	25	–	●	–	–	–	–	●	●	●	–	–	–	–	–
A4G0600M06P04GMP	6	6,00	0,4	30	4,9	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G0600M06P08GMP	6	6,00	0,8	30	4,9	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G0800M08P08GMP	8	8,00	0,8	30	6,4	–	●	–	–	–	–	●	–	–	–	–	–	–
A4G0800M08P12GMP	8	8,00	1,2	30	6,4	●	–	–	–	–	–	–	–	–	–	–	–	–





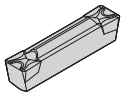
A4R-P-GMP

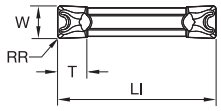
● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GMP Tam radyüslu, hassas taşlanmış

Katalog numarası	Yuva ölçüsü	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0200M02P00GMP	2	2,00	1,0	20	1,7	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R0300M03P00GMP	3	3,00	1,5	20	2,5	●	●	–	–	–	●	●	●	–	–	–	–	–
A4R0400M04P00GMP	4	4,00	2,0	20	–	●	●	–	–	–	●	●	●	–	–	–	–	–
A4R0500M05P00GMP	5	5,00	2,5	25	4,1	●	●	–	–	–	●	●	●	–	–	–	–	–
A4R0600M06P00GMP	6	6,00	3,0	30	4,8	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R0800M08P00GMP	8	8,00	4,0	30	6,4	●	●	–	–	–	–	●	–	–	–	–	–	–

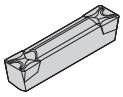


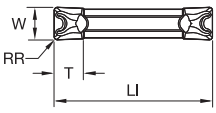


A4G-U-GMN

GMN Hassas kalıplanmış

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M02U02GMN	2	2,05	0,2	20	2,0	●	●	●	–	–	–	●	●	–	–	–	–	–
A4G0255M2BU02GMN	2B	2,62	0,2	20	2,0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4G0305M03U02GMN	3	3,05	0,2	20	3,5	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0305M03U04GMN	3	3,05	0,4	20	3,5	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0405M04U04GMN	4	4,05	0,4	20	3,4	●	●	–	●	–	–	●	●	–	–	–	–	–
A4G0405M04U08GMN	4	4,05	0,8	20	3,4	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0505M05U04GMN	5	5,05	0,4	25	4,2	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0505M05U08GMN	5	5,05	0,8	25	4,2	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0605M06U04GMN	6	6,05	0,4	30	4,9	●	●	●	●	–	–	●	●	–	–	–	–	–
A4G0605M06U08GMN	6	6,05	0,8	30	4,9	●	●	●	●	–	–	●	●	–	●	–	–	–
A4G0605M06U12GMN	6	6,05	1,2	30	4,9	–	–	–	●	–	–	●	●	–	–	–	–	–
A4G0805M08U08GMN	8	8,05	0,8	30	6,4	●	●	●	●	–	–	●	–	–	–	–	–	–
A4G0805M08U12GMN	8	8,05	1,2	30	6,4	–	●	●	●	–	–	●	–	–	–	–	–	–
A4G1005M10U08GMN	10	10,05	0,8	30	8,1	–	●	●	●	–	–	–	●	–	–	–	–	–
A4G1005M10U12GMN	10	10,05	1,2	30	8,1	–	–	–	●	–	–	–	●	–	–	–	–	–





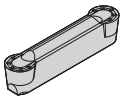
A4G-P-GMN

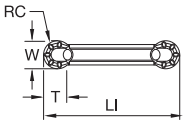
● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

GMN Hassas taşlanmış

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G094I2BP05GMN	2B	2,39	0,2	20	1,9	●	–	–	–	–	–	●	–	–	–	–	–	–
A4G125I03P05GMN	3	3,18	0,2	20	3,4	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G125I03P1GMN	3	3,18	0,4	20	3,4	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G187I04P1GMN	4	4,76	0,4	20	3,5	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G187I04P2GMN	4	4,76	0,8	20	3,5	●	●	–	–	–	–	●	●	–	–	–	–	–
A4G250I06P1GMN	6	6,35	0,4	30	4,7	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G250I06P2GMN	6	6,35	0,8	30	4,7	●	●	–	–	–	–	●	–	–	–	–	–	–
A4G312I08P1GMN	8	7,94	0,4	30	6,2	–	●	–	–	–	–	●	–	–	–	–	–	–
A4G375I10P1GMN	10	9,53	0,4	30	7,9	–	–	–	–	–	–	●	–	–	–	–	–	–
A4G375I10P2GMN	10	9,53	0,8	30	7,9	●	–	–	–	–	–	●	–	–	–	–	–	–

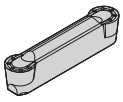


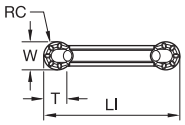


A4R-U-GMN

GMN Tam radyüslü, hassas kalıplanmış

Katalog numarası	Yuva ölçüsü	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0205M02U00GMN	2	2,05	1,1	20	1,8	–	●	●	–	–	–	●	●	–	–	–	–	–
A4R0305M03U00GMN	3	3,05	1,5	20	2,6	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0405M04U00GMN	4	4,05	2,0	20	3,5	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0505M05U00GMN	5	5,05	2,5	25	4,2	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0605M06U00GMN	6	6,05	3,0	30	4,9	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R0805M08U00GMN	8	8,05	4,0	30	6,5	●	●	●	●	–	–	●	●	–	–	–	–	–
A4R1005M10U00GMN	10	10,05	5,0	30	8,2	●	●	–	●	–	–	–	–	–	–	–	–	–

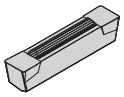


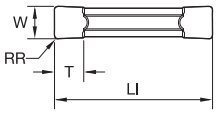


A4R-P-GMN

GMN Tam radyüslü, hassas taşlanmış

Katalog numarası	Yuva ölçüsü	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R125I03P00GMN	3	3,18	1,6	20	2,7	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R187I04P00GMN	4	4,76	2,4	20	3,8	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R250I06P00GMN	6	6,35	3,2	30	5,3	●	●	–	–	–	–	●	●	–	–	–	–	–
A4R312I08P00GMN	8	7,94	4,0	30	6,4	●	–	–	–	–	–	–	–	–	–	–	–	–
A4R375I10P00GMN	10	9,53	4,8	30	7,3	–	–	–	–	–	–	–	●	–	–	–	–	–





A4G-U-B

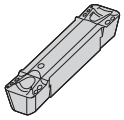
● İlk tercih
○ Alternatif tercih

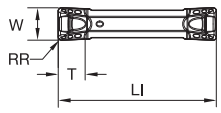
		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

Düz başlı, hassas kalıplanmış

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0305M03U02B	3	3,05	0,2	20	3,5	–	●	–	–	●	–	–	●	–	–	–	–	–
A4G0405M04U04B	4	4,05	0,4	20	3,4	–	–	–	–	●	–	–	●	–	–	–	–	–
A4G0505M05U04B	5	5,05	0,4	25	4,2	–	●	–	–	●	–	–	–	–	–	–	–	–
A4G0605M06U04B	6	6,05	0,4	30	4,9	–	●	–	–	●	–	–	–	–	–	–	–	–
A4G0805M08U08B	8	8,05	0,8	30	6,4	–	–	–	–	●	–	–	–	–	–	–	–	–
A4G1005M10U08B	10	10,05	0,8	30	8,1	–	–	–	–	●	–	–	–	–	–	–	–	–

A4™ Kanal tornalama ve Tornalama uçları • Küçük çap alına kanal açma





A4G-SP-GUP

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

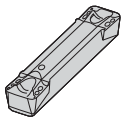
GUP Hassas kalıplanmış • Küçük çap alına kanal açma

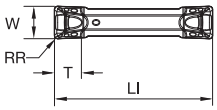
Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0200M2SP02GUP	2S	2,00	0,2	20	1,9	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M3SP02GUP	3S	3,00	0,2	20	2,9	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0300M3SP04GUP	3S	3,00	0,4	20	2,9	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0400M4SP04GUP	4S	4,00	0,4	20	3,4	●	–	–	–	–	–	–	–	–	–	–	–	–
A4G0400M4SP08GUP	4S	4,00	0,8	20	3,4	●	–	–	–	–	–	–	–	–	–	–	–	–
A4G0500M5SP04GUP	5S	5,00	0,4	25	4,1	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0500M5SP08GUP	5S	5,00	0,8	25	4,1	●	–	–	–	–	–	–	–	–	–	–	–	–

NOT: A4-S Kesici uçlar yüksekliği azaltılmış A4 kesici uçlardır. Örneğin, uç yuva ölçüsü 2S olan bir tutucuya uç yuva ölçüsü 2 olan bir kesici uç bağlanamaz.

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	



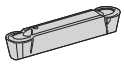


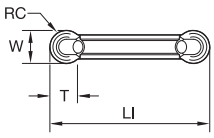
A4G-SU-GUP

GUP Hassas taşlanmış • Küçük çap alına kanal açma

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M2SU02GUP	2S	2,05	0,2	20	2,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU02GUP	3S	3,05	0,2	20	3,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU04GUP	3S	3,05	0,4	20	3,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0405M4SU04GUP	4S	4,05	0,4	20	3,4	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M5SU04GUP	5S	5,05	0,4	25	4,2	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M5SU08GUP	5S	5,05	0,8	25	4,2	–	●	–	–	–	–	–	–	–	–	–	–	–

NOT: A4-S Kesici uçlar yüksekliği azaltılmış A4 kesici uçlardır. Örneğin, uç yuva ölçüsü 2S olan bir tutucuya uç yuva ölçüsü 2 olan bir kesici uç bağlanamaz.



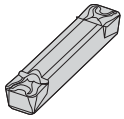


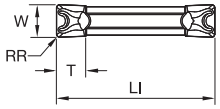
A4R-SP-GMP

GMP Tam radyüslü, hassas taşlanmış • Küçük çap alına kanal açma

Katalog numarası	Yuva ölçüsü	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0200M2SP00GMP	2S	2,00	1,0	20	1,6	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0300M3SP00GMP	3S	3,00	1,5	20	2,5	–	●	–	–	–	–	–	–	–	–	–	–	–
A4R0500M5SP00GMP	5S	5,00	2,5	25	4,1	–	●	–	–	–	–	–	–	–	–	–	–	–

NOT: A4-S Kesici uçlar yüksekliği azaltılmış A4 kesici uçlardır. Örneğin, uç yuva ölçüsü 2S olan bir tutucuya uç yuva ölçüsü 2 olan bir kesici uç bağlanamaz.



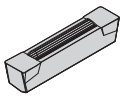


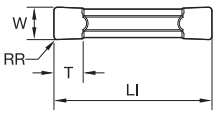
A4G-SU-GMN

GMN Hassas kalıplanmış • Küçük çap alına kanal açma

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0205M2SU02GMN	2S	2,05	0,2	20	2,0	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU02GMN	3S	3,05	0,2	20	3,5	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0305M3SU04GMN	3S	3,05	0,4	20	3,5	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0405M4SU04GMN	4S	4,05	0,4	20	3,6	●	●	–	–	–	–	–	–	–	–	–	–	–
A4G0405M4SU08GMN	4S	4,05	0,8	20	3,6	–	●	–	–	–	–	–	–	–	–	–	–	–
A4G0505M5SU04GMN	5S	5,05	0,4	25	4,2	●	●	–	–	–	–	–	–	–	–	–	–	–

NOT: A4-S Kesici uçlar yüksekliği azaltılmış A4 kesici uçlardır. Örneğin, uç yuva ölçüsü 2S olan bir tutucuya uç yuva ölçüsü 2 olan bir kesici uç bağlanamaz.



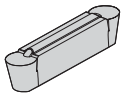


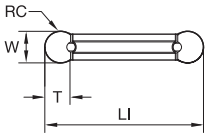
● İlk tercih
○ Alternatif tercih

P	
M	
K	●
N	
S	
H	

Düz başlı, hassas taşlanmış • Seramik

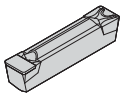
ISO Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KY3500
A4G0300M03P04T01025	3	3,00	0,4	20	3,4	●
A4G125I03P1T0425	3	3,18	0,4	20	3,4	●
A4G0400M04P04T01025	4	4,00	0,4	20	3,4	●
A4G0500M05P08T01025	5	5,00	0,8	25	4,2	●
A4G0600M06P08T01025	6	6,00	0,8	30	4,8	●
A4G250I06P2T0425	6	6,35	0,8	30	4,9	●
A4G0800M08P08T01025	8	8,00	0,8	30	6,4	●

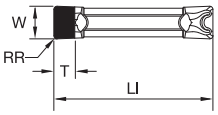




Düz başlı, tam radyüslü, hassas taşlanmış • Seramik

ISO Katalog numarası	Yuva ölçüsü	W	RC	LI	T	KY3500
A4R0300M03P00T01025	3	3,00	1,5	20	2,4	●
A4R0500M05P00T01025	5	5,00	2,5	25	4,1	●
A4R0600M06P00T01025	6	6,00	3,0	30	4,3	●
A4R250I06P00T0425	6	6,35	3,2	30	4,8	●
A4R0800M08P00T01025	8	8,00	4,0	30	6,4	●



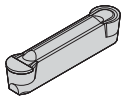


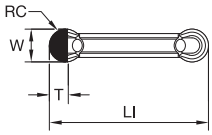
● İlk tercih
○ Alternatif tercih

P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

Düz başlı, hassas taşlanmış • PCD

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04E	3	3,00	0,4	20	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0400M04P04E	4	4,00	0,4	20	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●
A4G0500M05P08E	5	5,00	0,8	25	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●



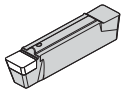


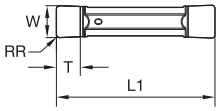
● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
P		●	●	●	●	○		○	○		●			
M		●	●				○	●	○					
K		○	○	○	○	●	○	○	○	●	○	○		
N		●	○				●	●	○					●
S		●	●				●	○	○			○		
H		○						○				●	●	

Düz başlı, tam radyüslü, hassas taşlanmış • PCD

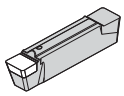
Katalog numarası	Yuva ölçüsü	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0500M05P00E	5	5,00	2,5	25	3,0	–	–	–	–	–	–	–	–	–	–	–	–	●

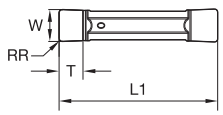




Düz başlı, hassas taşlanmış • PcBN

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04EST	3	3,00	0,4	20	3,0	–	–	–	–	–	–	–	–	–	–	●	–	–
A4G0500M05P08EST	5	5,00	0,8	25	3,5	–	–	–	–	–	–	–	–	–	–	●	–	–
A4G0600M06P08EST	6	6,00	0,8	30	4,0	–	–	–	–	–	–	–	–	–	–	●	–	–

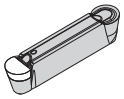


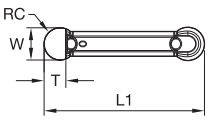


Düz başlı, hassas taşlanmış • T zırh • PcBN

Katalog numarası	Yuva ölçüsü	W	RR	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4G0300M03P04S02025ST	3	3,00	0,4	20	3,0	–	–	–	–	–	–	–	–	–	–	●	●	–
A4G0400M04P04S02025ST	4	4,00	0,4	20	3,3	–	–	–	–	–	–	–	–	–	–	●	●	–
A4G0500M05P08S02025ST	5	5,00	0,8	25	3,5	–	–	–	–	–	–	–	–	–	–	–	●	–
A4G0600M06P08S02025ST	6	6,00	0,8	30	4,0	–	–	–	–	–	–	–	–	–	–	–	●	–

● İlk tercih
○ Alternatif tercih





A4R-P-E-ST

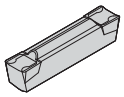
Düz başlı, tam radyüslü, hassas taşlanmış • PcBN

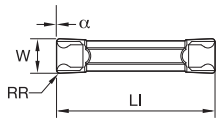
Katalog numarası	Yuva ölçüsü	W	RC	LI	T	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4R0300M03P00EST	3	3,00	1,5	20	2,2	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0400M04P00EST	4	4,00	2,0	20	2,9	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0500M05P00EST	5	5,00	2,5	25	3,7	–	–	–	–	–	–	–	–	–	–	●	–	–
A4R0600M06P00EST	6	6,00	3,0	30	4,4	–	–	–	–	–	–	–	–	–	–	●	–	–

P		●	●	●	●	○		○	○		●							
M		●	●				○	●	○									
K		○	○	○	○	●	○	○	○	●	○	○						
N		●	○				●	●	○									●
S		●	●				●	○	○			○						
H		○						○								●	●	

A4™ Kesme ve dilimleme uçları

● İlk tercih
○ Alternatif tercih





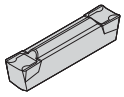
A4C-N-CF

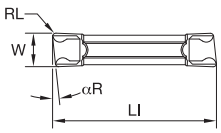
CF Hassas kalıplanmış • Nötr

Katalog numarası	Yuva ölçüsü	W	RR	LI	α	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4C0155N00CF01	1	1,50	0,2	16	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0205N00CF02	2	2,05	0,2	20	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0255N00CF02	2B	2,50	0,2	20	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0305N00CF02	3	3,05	0,2	20	–	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0405N00CF02	4	4,05	0,2	20	–	–	●	–	–	–	–	–	●	–	–	–	–	–

P		●	●	●	●	○		○	○		●							
M		●	●				○	●	○									
K		○	○	○	○	●	○	○	○	●	○	○						
N		●	○				●	●	○									●
S		●	●				●	○	○			○						
H		○						○								●	●	

● İlk tercih
○ Alternatif tercih

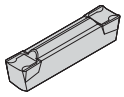


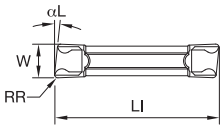


A4C-R-CF

CF Hassas kalıplanmış • Sağ yönlü

Katalog numarası	Yuva ölçüsü	W	RL	LI	αR	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4C0155R06CF01	1	1,50	0,2	16	6.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0155R10CF01	1	1,50	0,2	16	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0155R16CF01	1	1,50	0,2	16	16.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0205R06CF02	2	1,99	0,2	20	6.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0205R10CF02	2	1,99	0,2	20	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0255R06CF02	2B	2,49	0,2	20	6.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0305R06CF02	3	3,05	0,2	20	6.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0305R10CF02	3	3,05	0,2	20	10.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0405R06CF02	4	4,05	0,2	20	6.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0405R10CF02	4	4,05	0,2	20	10.0	–	●	–	–	–	–	–	●	–	–	–	–	–





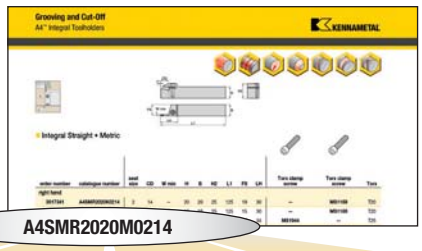
A4C-L-CF

CF Hassas kalıplanmış • Sol yönlü

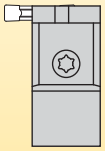
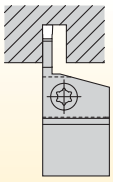
Katalog numarası	Yuva ölçüsü	W	RR	LI	αL	KCU10	KCU25	KCP10	KCP25	KCK20	K313	KC5010	KC5025	KY3500	KT315	KB1630	KB5625	KD1405
A4C0155L06CF01	1	1,50	0,2	16	6.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0205L06CF02	2	1,99	0,2	20	6.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0205L10CF02	2	1,99	0,2	20	10.0	–	–	–	–	–	–	–	●	–	–	–	–	–
A4C0305L06CF02	3	3,05	0,2	20	6.0	–	●	–	–	–	–	–	●	–	–	–	–	–
A4C0305L10CF02	3	3,05	0,2	20	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0405L06CF02	4	4,05	0,2	20	6.0	–	●	–	–	–	–	–	–	–	–	–	–	–
A4C0405L10CF02	4	4,05	0,2	20	10.0	–	●	–	–	–	–	–	–	–	–	–	–	–

Katalog numaraları nasıl kullanılır ?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



A4SMR2020M0214

A4	S	M	R	2020M	02	14
Takımlama sistemi	Takım tipi	Destek tipi	Takım yönü	Şaft ölçüsü	Yuva ölçüsü	Maksimum kanal derinliği
A4 = Kanal açma ve Tornalama	 **S** = Düz monte  **E** = Uçtan monte 90°		 **R** = Sağ yönlü **L** = Sol yönlü **N** = Nötr		**02** **03** **04** **05** **06** **08** **10**	Milimetre olarak

M =
Belirli kanal genişlikleri için maksimum destek ve sınırsız iş parçası çapları için düz boşluk

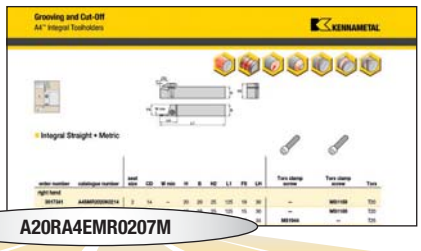
E =
Alına kanal açmada çelik desteksiz

C =
Güçlendirilmiş destek

Metrik:
Yükseklik x genişlik mm. olarak, harf ISO metrik takım boyuna

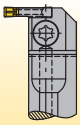
(mm) göre takım boyunu gösterir
K = 125
M = 150
P = 170

Bu kolay kullanımlı rehbere başvurarak,
ihtiyaçlarınızı karşılayacak doğru ürünü belirleyebilirsiniz.

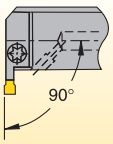


A20RA4EMR0207M

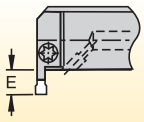
A	20	R	A4	E	M	R	02	07	M
İçten soğutmalı çelik bara	Bara çapı	Bara boyu	A4™ Kanal ve Torna sistemi	Takım tipi	Destek tipi	Takım yönü	Kesici uç yuva ölçüsü	Kanal açma derinliği mm olarak	Takım üniteleri



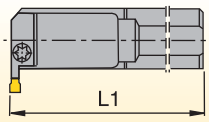
M = Metrik



E = Uçtan monte (90º)

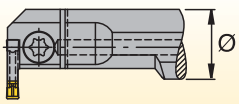


mm
7mm
10mm
12mm
16mm

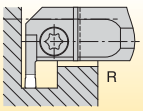


Metrik baralar:
R = 200mm
S = 150mm
T = 300mm

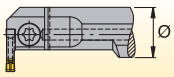
Uç yuvası ölçüsü	Kesme genişliği (mm)
02	2,00–2,62
2B	2,39–2,62
03	3,0–3,05
04	4,0–4,05
05	5,0–5,05
06	6,0–6,05
08	8,0–8,05
10	10,0–10,05



Metrik baralar:
Milimetre olarak bara çapı



R = Sağ yönlü

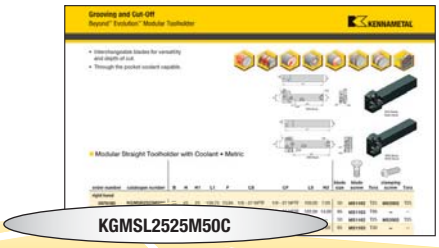


L = Sol yönlü

M = Maksimum destek

Katalog numaralandırma sistemi?

Kataloğumuzda yer alan numara sistemindeki her bir karakter Modüler takım tutucular ve Modüler lamalar ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



KGMSL2525M50C

KGM	S	L	2525M	50	C
Ürün grubu tanımı	Takım tipi	Yön	Şaft ölçüsü	Lama ölçüsü	Soğutma sıvısı
Kanal açma Modüler sistem	**S** = Düz monte **E** = Uçtan monte (90°)	**L** = Sol yönlü **R** = Sağ yönlü	**Metrik** = mm olarak Yükseklik x Genişlik, ISO' ya göre takım boyunu göstermektedir	**50** **65**	**C** = Içten soğutma özellikli

Sığ kanal tornalama ve tornalama uygulamalarınız için kanal açma takımları ve **Beyond**™ kesici uçlar

Top Notch™





Top Notch Kanal açma yüksek verimlilik için kanıtlanmış çözümdür. Top Notch sistemi, mükemmel yüzey kalitesi ve üstün takım ömrü sağlamak için kararlı takım performansı, doğru kesici uç değiştirme ve üstün bağlama özelliği sağlamaktadır.

ÖZELLİKLER VE AVANTAJLAR

- Beyond PVD kaplamalı kaliteler çok çeşitli iş parçası malzemelerini kesmek için tasarlanmıştır.
- Rijit bağlama özelliği, en tok kesmeler sırasında bile kesici yuva içinde güvenilirlikli bir şekilde kilitler.
- Çok yönlü tasarım, tek bir sistemin dış çapta ve iç çapta kanal açma, alına kanal açma, geriye tornalama, alttan kesme ve tornada pürüzsüz vida dişi açma işlemlerinin gerçekleşmesine olanak sağlar.
- Talaş kontrollü kesici uçlar kanal açmada mükemmel talaş boşalması sağlamakta ve çok yönlü tornalamada daha iyi bir talaş kontrolü elde etmektedir.

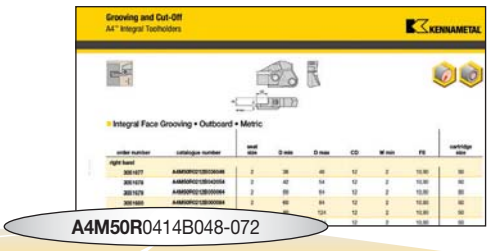
Yetkili Kennametal bayisindeki ya da **kennametal.com** adresindeki avantajlardan yaralanın.

KENNAMETAL®

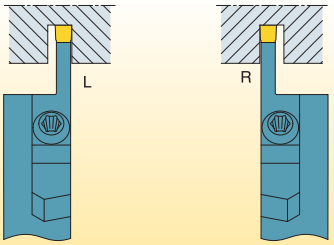
kennametal.com

Katalog numaraları nasıl kullanılır ?

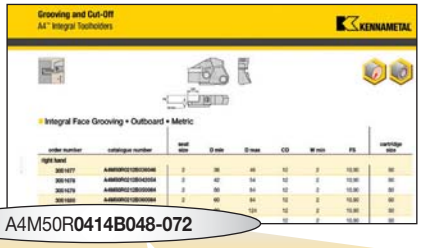
Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



A4M50R0414B048-072

A4M	**50**	**R**
Ürün grubu tanımı	Modüler sistem ölçüsü	Takım yönü
A4 Modüler lama	50 65	

Bu kolay kullanımlı rehbere başvurarak,
ihtiyaçlarınızı karşılayacak doğru ürünü belirleyebilirsiniz.



A4M50R**0414B048-072**

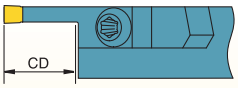
04

Yuva ölçüsü

Uç yuvası ölçüsü	Kesme genişliği mm
02	2,00–2,62
2B	2,39–2,62
03	3,0–3,05
04	4,0–4,05
05	5,0–5,05
06	6,0–6,05
08	8,0–8,05
10	10,0–10,05

14

Maksimum kanal derinliği



mm

14mm

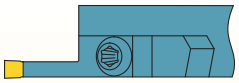
19mm

20mm

26mm

B

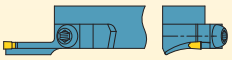
Takım tipi



M = Belirli kanal genişlikleri için maksimum destek ve sınırsız iş parçası çapları için düz boşluk



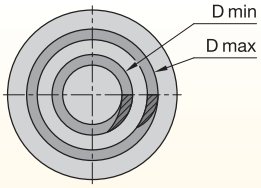
A = İç konumda tarama, alına kanal açma için takım tutucu



B = Dış konumda tarama, alına kanal açma için takım tutucu

048–072

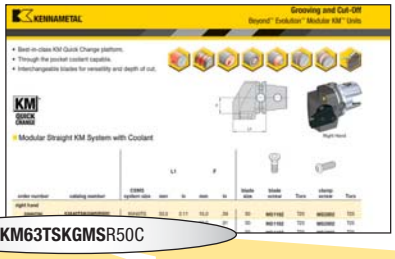
Alına kanal açma çap aralığı



Çaplar, çapı 999 = sınırsız D maks. olan dış alın kanalı için min. ve maks.'dur

Katalog numaraları nasıl kullanılır?

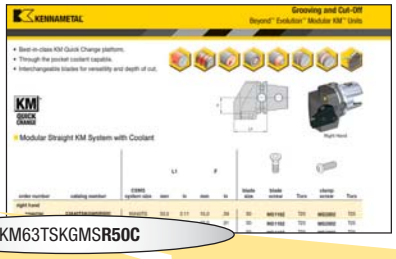
Kataloğumuzda yer alan numara sistemindeki her bir karakter Hızlı değiştirme sistemleri ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



KM63TSKGMSR50C

KM	63	TS	KGM	S
KM™ Hızlı değiştirme	Sistem ölçüsü	Özellik	Kesici uç bağlama yöntemi	Kesici uç konumu
KM **KM4X™** **PSC**	40 = 40mm 50 = 50mm 63 = 63mm 80 = 80mm 100 = 100mm	**TS** **XMZ**	**KGM** **Modüler kanal açma**	**E** = Alından monte **S** = Yandan monte

Bu kolay kullanımlı rehbere başvurarak,
ihtiyaçlarınızı karşılayacak doğru ürünü belirleyebilirsiniz.

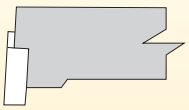


KM63TSKGMS**R50C**

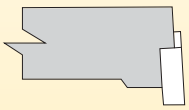
R	**50**	**C**	
Takım yönü	Lama ölçüsü	Soğutma sıvısı	Özel açıklamalar
R = Sağ yönlü **L** = Sol yönlü	**50** **60**	**C** = İçten soğutmalı uç yuvası özelliği	**Y** = Mazak® INTEGREX®

Alından monte

R

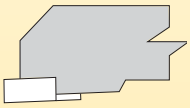


L

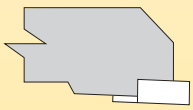


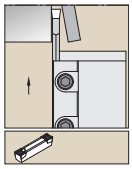
Yandan monte

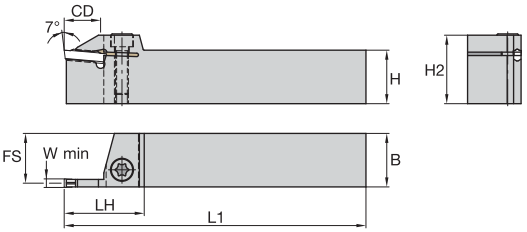
R



L







Sağ yönlü

Tümleşik düz • Metrik

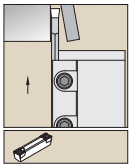
Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	W min	H	B	H2	L1	FS	LH	Sıkma vidası	Sıkma vidası	Torx
Sağ yönlü													
3017341	**A4SMR2020K0214**	2	14	–	20	20	25	125	19	30	**–**	**MS1160**	T20
3017342	**A4SMR1616K0214**	2	14	2	16	16	25	125	15	30	**–**	**MS1160**	T20
2974425	**A4SMR2020K0217**	2	17	2	20	20	31	125	19	34	**MS1944**	**–**	T25
3017340	**A4SMR2525M0214**	2	14	2	25	25	30	150	24	30	**–**	**MS1160**	T20
3017339	**A4SMR2525M0217**	2	17	2	25	25	31	150	24	34	**MS1944**	**–**	T25
1949633	**A4SMR1616K0314**	3	14	3	16	16	27	125	15	35	**MS2091**	**–**	T25
2503557	**A4SMR2016K0317**	3	17	3	20	16	32	125	15	37	**MS1970**	**–**	T30
1949635	**A4SMR2020K0314**	3	14	3	20	20	27	125	19	35	**MS1595**	**–**	T30
2503551	**A4SMR2020K0317**	3	17	3	20	20	32	125	19	37	**MS1970**	**–**	T30
1949637	**A4SMR2525M0317**	3	17	3	25	25	32	150	24	37	**MS1970**	**–**	T30
2503559	**A4SMR2016K0417**	4	17	4	20	16	32	125	14	37	**MS1970**	**–**	T30
1949639	**A4SMR2020K0414**	4	14	4	20	20	27	125	18	35	**MS1595**	**–**	T30
2503553	**A4SMR2020K0417**	4	17	4	20	20	32	125	18	37	**MS1970**	**–**	T30
1949641	**A4SMR2525M0417**	4	17	4	25	25	32	150	23	37	**MS1970**	**–**	T30
1949643	**A4SMR3225P0417**	4	17	4	32	25	40	170	23	37	**MS1970**	**–**	T30
1949645	**A4SMR2020K0519**	5	19	5	20	20	28	125	18	40	**MS1595**	**–**	T30
1949647	**A4SMR2525M0520**	5	20	5	25	25	33	150	23	40	**MS1970**	**–**	T30
1949649	**A4SMR3225P0522**	5	22	5	32	25	40	170	23	42	**MS1970**	**–**	T30
2503555	**A4SMR2020K0620**	6	20	6	20	20	33	125	17	40	**MS1970**	**–**	T30
2245484	**A4SMR2525M0620**	6	20	6	25	25	33	150	22	40	**MS1970**	**–**	T30
2263089	**A4SMR3225P0626**	6	26	6	32	25	40	170	22	45	**MS1970**	**–**	T30
2245485	**A4SMR2525M0820**	8	20	8	25	25	34	150	21	43	**MS1490**	**–**	T45
2263091	**A4SMR3225P0826**	8	26	8	32	25	41	170	21	47	**MS1490**	**–**	T45
2263173	**A4SMR3225P1026**	10	26	10	32	25	41	170	21	47	**MS1490**	**–**	T45

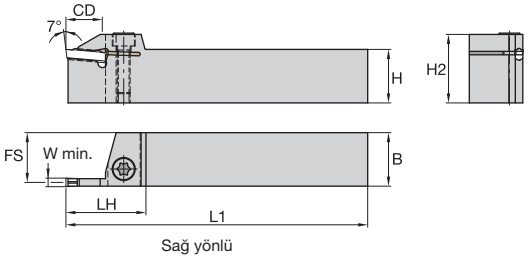
(devamı)

(Tümleşik düz • Metrik — devamı)




Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	W min	H	B	H2	L1	FS	LH	Sıkma vidası	Sıkma vidası	Torx
Sol yönlü													
3017336	**A4SML2020K0214**	2	14	–	20	20	25	125	19	30	**–**	**MS1160**	T20
3017338	**A4SML1616K0214**	2	14	2	16	16	25	125	15	30	**–**	**MS1160**	T20
3017337	**A4SML2020K0217**	2	17	2	20	20	31	125	19	34	**MS1944**	**–**	T25
3017335	**A4SML2525M0214**	2	14	2	25	25	30	150	24	30	**–**	**MS1160**	T20
3017334	**A4SML2525M0217**	2	17	2	25	25	31	150	24	34	**MS1944**	**–**	T25
1949634	**A4SML1616K0314**	3	14	3	16	16	27	125	15	35	**MS2091**	**–**	T25
2503556	**A4SML2016K0317**	3	17	3	20	16	32	125	15	37	**MS1970**	**–**	T30
1949636	**A4SML2020K0314**	3	14	3	20	20	27	125	19	35	**MS1595**	**–**	T30
2503550	**A4SML2020K0317**	3	17	3	20	20	32	125	19	37	**MS1970**	**–**	T30
1949638	**A4SML2525M0317**	3	17	3	25	25	32	150	24	37	**MS1970**	**–**	T30
1949640	**A4SML2020K0414**	4	14	4	20	20	27	125	18	35	**MS1595**	**–**	T30
2503552	**A4SML2020K0417**	4	17	4	20	20	32	125	18	37	**MS1970**	**–**	T30
1949642	**A4SML2525M0417**	4	17	4	25	25	32	150	23	37	**MS1970**	**–**	T30
1949644	**A4SML3225P0417**	4	17	4	32	25	40	170	23	37	**MS1970**	**–**	T30
1949646	**A4SML2020K0519**	5	19	5	20	20	28	125	18	40	**MS1595**	**–**	T30
1949648	**A4SML2525M0520**	5	20	5	25	25	33	150	23	40	**MS1970**	**–**	T30
1949650	**A4SML3225P0522**	5	22	5	32	25	40	170	23	42	**MS1970**	**–**	T30
2503554	**A4SML2020K0620**	6	20	6	20	20	33	125	17	40	**MS1970**	**–**	T30
2245486	**A4SML2525M0620**	6	20	6	25	25	33	150	22	40	**MS1970**	**–**	T30
2263090	**A4SML3225P0626**	6	26	6	32	25	40	170	22	45	**MS1970**	**–**	T30
2245487	**A4SML2525M0820**	8	20	8	25	25	34	150	21	43	**MS1490**	**–**	T45
2263092	**A4SML3225P0826**	8	26	8	32	25	41	170	21	47	**MS1490**	**–**	T45
2263174	**A4SML3225P1026**	10	26	10	32	25	41	170	21	47	**MS1490**	**–**	T45

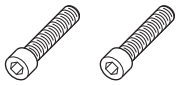




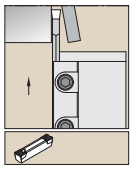
Sağ yönlü

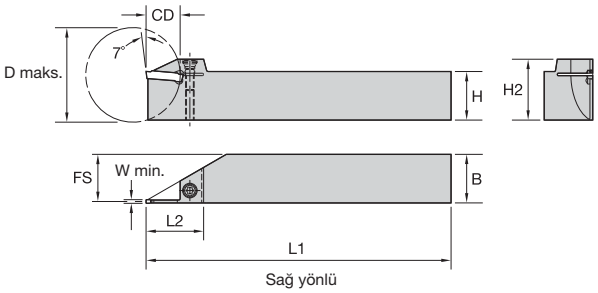


Tümleşik düz • Kısa bağlantı boylu takım tutucular • Metrik

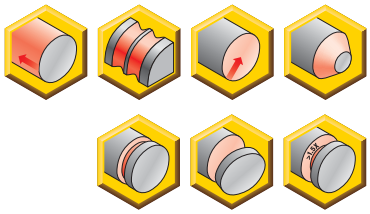


Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	W min.	H	B	H2	L1	FS	LH	Sıkma vidası	Sıkma vidası	Torx
Sağ yönlü													
3854265	**A4SMR2020K0208**	2	8	2	20	20	24	125	19	26	–	**MS1160**	T20
3854267	**A4SMR2020K0308**	3	8	3	20	20	27	125	19	28	**MS1595**	–	T30
3854269	**A4SMR2020K0408**	4	8	4	20	20	27	125	18	28	**MS1595**	–	T30
3854271	**A4SMR2525M0510**	5	10	5	25	25	33	150	23	32	**MS1970**	–	T30
3854273	**A4SMR2525M0610**	6	10	6	25	25	33	150	22	37	**MS1970**	–	T30
Sol yönlü													
3854266	**A4SML2020K0208**	2	8	2	20	20	24	125	19	26	–	**MS1160**	T20
3854268	**A4SML2020K0308**	3	8	3	20	20	27	125	19	28	**MS1595**	–	T30
3854270	**A4SML2020K0408**	4	8	4	20	20	27	125	18	28	**MS1595**	–	T30
3854272	**A4SML2525M0510**	5	10	5	25	25	33	150	23	32	**MS1970**	–	T30
3854274	**A4SML2525M0610**	6	10	6	25	25	33	150	22	37	**MS1970**	–	T30

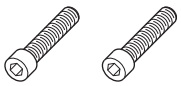




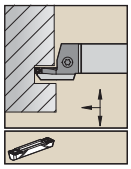
Sağ yönlü

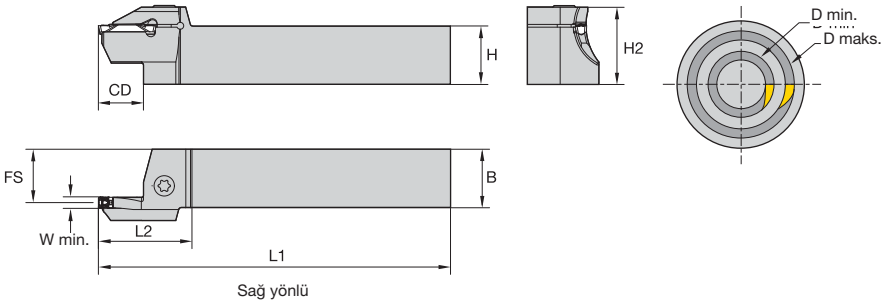


Tümleşik düz üsten bağlamalı çene • Metrik

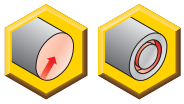


Sipariş numarası	Katalog numarası	Yuva ölçüsü	D maks.	CD	W min.	H	B	H2	L1	FS	LH	Sıkma vidası	Sıkma vidası	Kilitleme vidası anahtar ölçüsü
Sağ yönlü														
2982224	**A4SCR1010K0113**	1	27	13,500	1,50	10	10	21	125	9,40	25	**MS1156**	–	T15
2978378	**A4SCR1212K0113**	1	27	13,500	1,50	12	12	21	125	11,40	25	**MS1156**	–	T15
2982223	**A4SCR1616K0113**	1	27	13,500	1,50	16	16	21	125	15,40	25	**MS1156**	–	T15
2982172	**A4SCR2020K0113**	1	27	13,500	1,50	20	20	25	125	19,40	25	**MS1156**	–	T15
4169745	**A4SCR1212K0214**	2	28	14,000	2,00	12	12	21	125	11,17	28	**MS1160**	–	T20
4169746	**A4SCR1616K0217**	2	34	17,000	2,00	16	16	26	125	15,20	31	–	**MS1944**	T25
4169747	**A4SCR1212K0314**	3	28	14,000	3,00	12	12	23	125	10,72	30	–	**MS2091**	25 IP
4169748	**A4SCR1616K0317**	3	34	17,000	3,00	16	16	27	125	14,72	33	–	**MS2091**	25 IP
Sol yönlü														
2982170	**A4SCL1212K0113**	1	27	13,500	1,50	12	12	21	125	11,40	25	**MS1156**	–	T15
2982169	**A4SCL1616K0113**	1	27	13,500	1,50	16	16	21	125	15,40	25	**MS1156**	–	T15
2982168	**A4SCL2020K0113**	1	27	13,500	1,50	20	20	25	125	19,40	25	**MS1156**	–	T15
4169749	**A4SCL1212K0214**	2	28	14,000	2,00	12	12	21	125	11,17	28	**MS1160**	–	T20
4169750	**A4SCL1616K0217**	2	34	17,000	2,00	16	16	26	125	15,20	31	–	**MS1944**	T25
4169752	**A4SCL1616K0317**	3	34	17,000	3,00	16	16	27	125	14,72	33	–	**MS2091**	25 IP


Sağ yönü gösterir.



Sağ yönlü



Tümleşik küçük çap alına kanal açma • Dışbükey • Metrik



Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	D min.	D maks.	W min.	H	B	H2	L1	FS	LH	Sıkma vidası	Torx
Sağ yönlü														
3865920	**A4SBR2020K2S12016020**	2S	12	16	20	2,00	20	20	25	125	19,20	28	–	T20
3865921	**A4SBR2020K2S12020025**	2S	12	20	25	2,00	20	20	25	125	19,20	28	–	T20
3865922	**A4SBR2020K2S12025036**	2S	12	25	36	2,00	20	20	25	125	19,20	28	–	T20
3865923	**A4SBR2020K3S14020025**	3S	14	20	25	3,00	20	20	28	125	18,70	35	**MS1595**	T30
3865924	**A4SBR2020K3S14025036**	3S	14	25	36	3,00	20	20	28	125	18,70	35	**MS1595**	T30
3865926	**A4SBR2020K4S14035048**	4S	14	35	48	4,00	20	20	28	125	18,20	35	**MS1595**	T30
3865927	**A4SBR2525M5S19028038**	5S	19	28	38	5,00	25	25	33	150	22,70	40	**MS1970**	T30
3865928	**A4SBR2525M5S19038058**	5S	19	38	58	5,00	25	25	33	150	22,70	40	**MS1970**	T30
Sol yönlü														
3865929	**A4SBL2020K2S12016020**	2S	12	16	20	2,00	20	20	25	125	19,20	28	–	T20
3865931	**A4SBL2020K2S12025036**	2S	12	25	36	2,00	20	20	25	125	19,20	28	–	T20
3865932	**A4SBL2020K3S14020025**	3S	14	20	25	3,00	20	20	28	125	18,70	35	**MS1595**	T30
3865934	**A4SBL2020K4S14025035**	4S	14	25	35	4,00	20	20	28	125	18,20	35	**MS1595**	T30
3865937	**A4SBL2525M5S19038058**	5S	19	38	58	5,00	25	25	33	150	22,70	40	**MS1970**	T30

NOVO BİLİR

TASARIMDAN BİTMİŞ PARÇAYA VE KAZANCA ERİŞİM



Olabildiğince verimli olmak ve kazanç sağlamak temel hedefinizdir. Ekibinize NOVO™ uygulamalarının katılımıyla, bu hedefinize ulaşabilirsiniz. NOVO süreç planlama, takım stok mevcudu ve satın alma, parça başı maliyet yönetimi ve verimlilik iyileştirmelerini birbirine bağlayan güçlü dijital araçlara sahiptir.

NOVO Uygulamaları tezgahınızda doğru takımlara doğru sıralama ile sahip olduğunuzu garanti edebilir. Her işi hızlandıran ve her vardiyada maksimum verimlilik sağlayan sorunsuz bir uygulama sunar.

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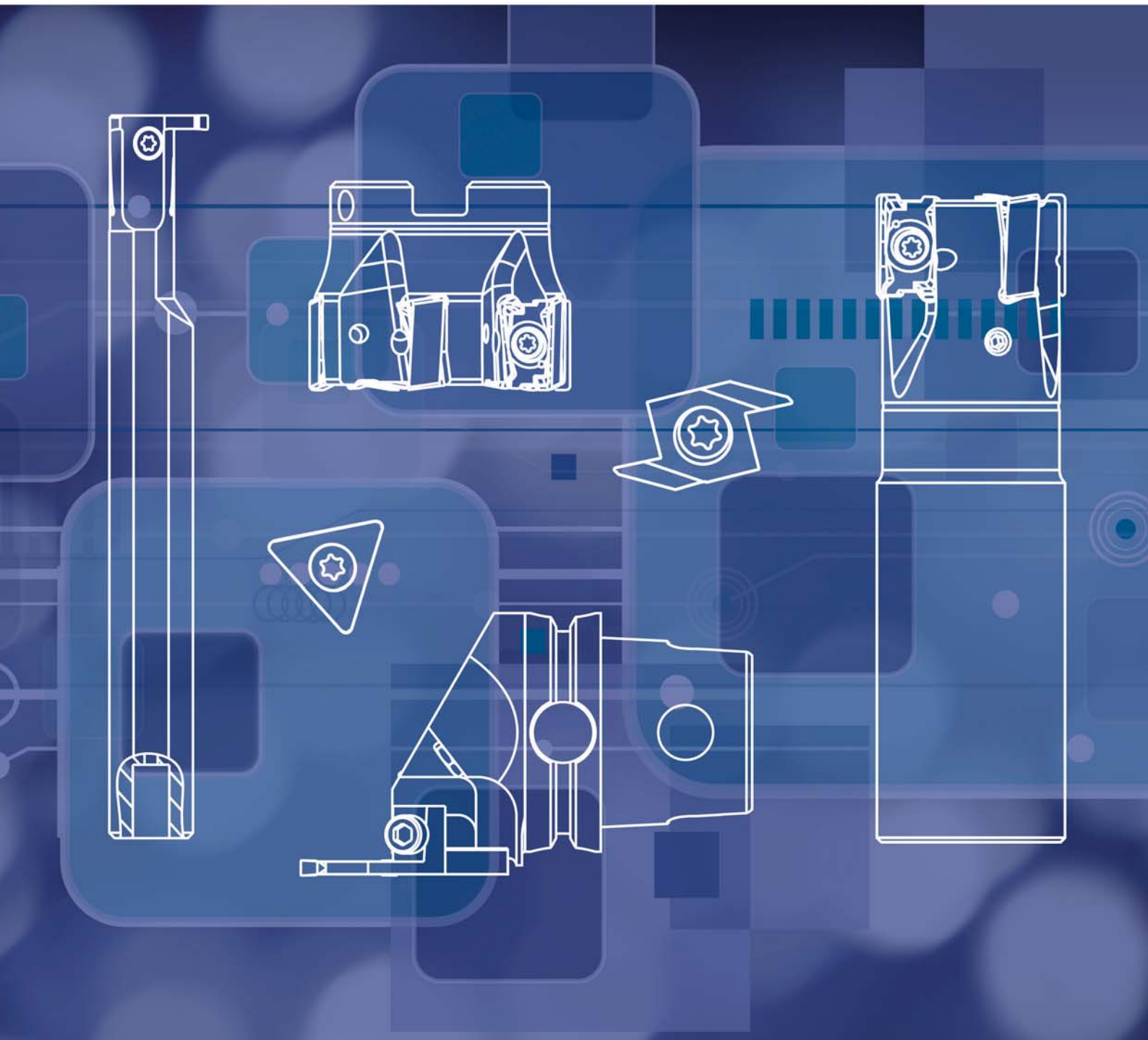

01

THE DIGITAL SOURCE FOR DELIVERING
SMART MACHINING SOLUTIONS

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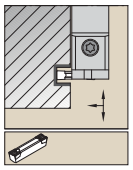
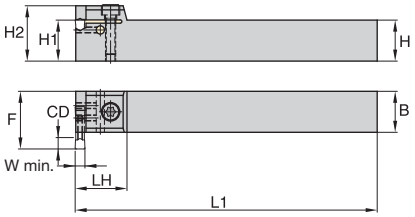
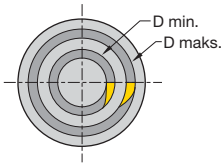
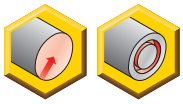
NOVO™





Sağ yönlü





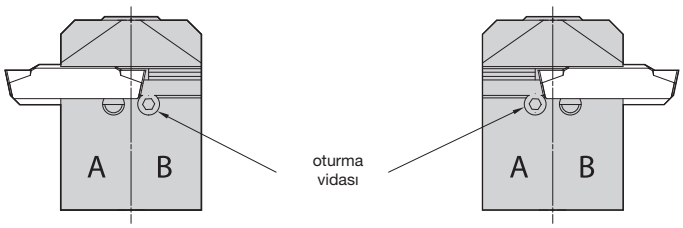
Tümleşik alına kanal açma • Uçtan monte • Çift yönlü • Metrik




Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	W min.	D min.	H1	B	H2	L1	F	LH	Sıkma vidası	Torx	altıgen oturtma vidası	Altıgen (mm)
2414136	**A4ENN2020K0305**	3	5	3,00	70	20	20	27	125,0	25,4	25	**MS2091**	T25	**MS2090**	1.5 mm
2414137	**A4ENN2525M0305**	3	5	3,00	70	25	25	32	150,0	30,4	25	**MS2091**	T25	**MS2090**	1.5 mm
1949651	**A4ENN2020K0407**	4	7	4,00	90	20	20	27	125,0	27,9	25	**MS2091**	T25	**MS2090**	1.5 mm
1949652	**A4ENN2525M0407**	4	7	4,00	90	25	25	32	150,0	33,1	25	**MS2091**	T25	**MS2090**	1.5 mm
1949654	**A4ENN2525M0509**	5	9	5,00	120	25	25	33	150,0	35,1	34	**MS1970**	T30	**193.297**	1.5 mm
2503543	**A4ENN2020K0611**	6	11	6,00	120	20	20	28	125,0	35,4	34	**MS1595**	T30	**193.297**	2 mm
2503544	**A4ENN2525M0611**	6	11	6,00	120	25	25	33	150,0	38,9	34	**MS1970**	T30	**193.297**	2 mm
2503545	**A4ENN3232P0611**	6	11	6,00	120	32	32	40	170,0	43,4	34	**MS1970**	T30	**193.297**	2 mm

NOT: Alına kanal açma uygulamaları için D min.
A4EN tip takım tutucular alına kanal açma kapasitesi için çelik desteksiz tasarlanmıştır. Önerilen kesme ilerleme değerleri %25–30 azaltılmalıdır.
Önerilen çene vidası torku, 50–70 inç lb. (6–8 Nm).
Minimum kesme genişliği yalnızca referans olarak verilmiştir; gerçek genişlik için kesici uç listesine bakınız. Her zaman, kesici uç yuva ölçüsü tutucu yuva ölçüsüne uygun olmalıdır.

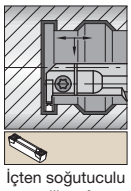
A4EN Kesici uç montajı

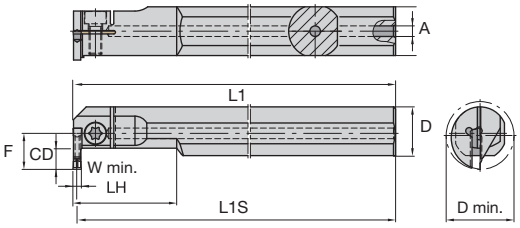


sol kesme

sağ kesme

A4EN tip tutucular sol yönlü veya sağ yönlü uygulamalarda kullanılabilir. Bağlama vidası sol yönlü kesme için B konumunda, sağ yönlü kesme için de A konumunda kullanılır.


İçten soğutuculu çelik şaft.



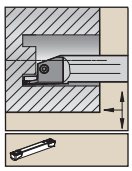
Sağ yönlü

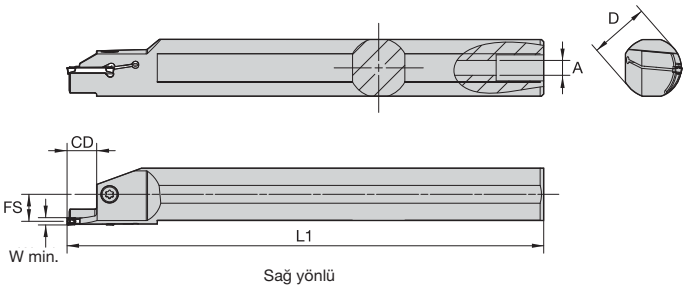


Çelik delik işleme barası • Metrik

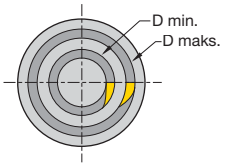


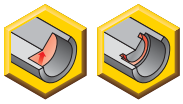
Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	W min.	D	D min.	L1	F	L1S	A	Sıkma vidası	Kilitleme vidası anahtar ölçüsü
Sağ yönlü												
2979223	**A20RA4EMR0207M**	2	7,00	2,00	20	25	200	13	199,0	4,00	**MS2089**	25 IP
2979225	**A25RA4EMR0210M**	2	10,00	2,00	25	32	200	17	199,0	5,00	**MS2089**	25 IP
1949655	**A20RA4EMR0307M**	3	7,00	3,00	20	25	200	13	198,5	4,00	**MS2089**	25 IP
1949657	**A25RA4EMR0310M**	3	10,00	3,00	25	32	200	17	198,5	5,00	**MS1595**	T30
1949659	**A32SA4EMR0312M**	3	12,00	3,00	32	40	250	22	248,5	6,00	**MS1595**	T30
1949661	**A20RA4EMR0407M**	4	7,00	4,00	20	25	200	13	198,0	4,00	**MS2089**	25 IP
1949663	**A25RA4EMR0410M**	4	10,00	4,00	25	32	200	17	198,0	5,00	**MS1595**	T30
1949665	**A32SA4EMR0412M**	4	12,00	4,00	32	40	250	22	248,0	6,00	**MS1595**	T30
1949667	**A40TA4EMR0416M**	4	16,00	4,00	40	52	300	30	298,0	6,00	**MS1970**	T30
1949669	**A32SA4EMR0516M**	5	16,00	5,00	32	44	250	26	247,5	6,00	**MS1595**	T30
1949671	**A40TA4EMR0516M**	5	16,00	5,00	40	52	300	30	297,5	6,00	**MS1970**	T30
2263197	**A40TA4EMR0616M**	6	16,00	6,00	40	52	300	30	297,0	6,00	**MS1970**	T30
Sol yönlü												
2979192	**A20RA4EML0207M**	2	7,00	2,00	20	25	200	13	199,0	4,00	**MS2089**	25 IP
2979224	**A25RA4EML0210M**	2	10,00	2,00	25	32	200	17	199,0	5,00	**MS2089**	25 IP
1949656	**A20RA4EML0307M**	3	7,00	3,00	20	25	200	13	198,5	4,00	**MS2089**	25 IP
1949658	**A25RA4EML0310M**	3	10,00	3,00	25	32	200	17	198,5	5,00	**MS1595**	T30
1949660	**A32SA4EML0312M**	3	12,00	3,00	32	40	250	22	248,5	6,00	**MS1595**	T30
1949662	**A20RA4EML0407M**	4	7,00	4,00	20	25	200	13	198,0	4,00	**MS2089**	25 IP
1949664	**A25RA4EML0410M**	4	10,00	4,00	25	32	200	17	198,0	5,00	**MS1595**	T30
1949666	**A32SA4EML0412M**	4	12,00	4,00	32	40	250	22	248,0	6,00	**MS1595**	T30
1949668	**A40TA4EML0416M**	4	16,00	4,00	40	52	300	30	298,0	6,00	**MS1970**	T30
1949670	**A32SA4EML0516M**	5	16,00	5,00	32	44	250	26	247,5	6,00	**MS1595**	T30
1949672	**A40TA4EML0516M**	5	16,00	5,00	40	52	300	30	297,5	6,00	**MS1970**	T30
2263198	**A40TA4EML0616M**	6	16,00	6,00	40	52	300	30	297,0	6,00	**MS1970**	T30





Sağ yönlü





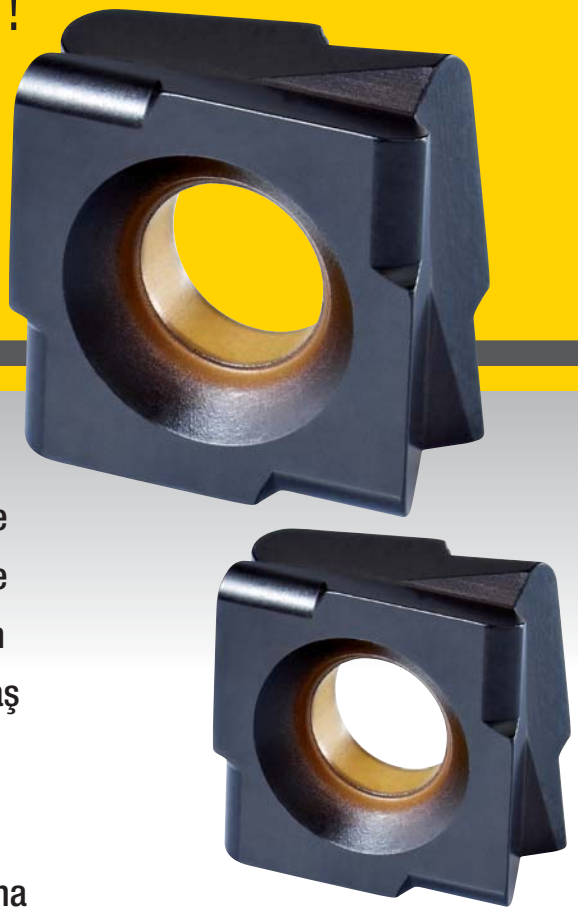
Çelik alına kanal açma barası • Metrik



Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	D min.	D maks.	W min.	D	L1	FS	A	Sıkma vidası	Kilitleme vidası anahtar ölçüsü
Sağ yönlü												
3871038	**A16RA4SAR2S12M017021**	2S	12,00	17	21	2,00	16	201	7	4,00	**MS1160**	T20
3871039	**A20RA4SAR2S12M021026**	2S	12,00	21	23	2,00	20	201	9	4,00	**MS1160**	T20
3871040	**A25RA4SAR2S12M026036**	2S	12,00	26	36	2,00	25	201	12	6,35	**MS1160**	T20
3871041	**A20RA4SAR3S14M021026**	3S	14,00	21	26	3,00	20	201	9	4,00	**MS1160**	T20
3871042	**A25RA4SAR3S14M026036**	3S	14,00	26	36	3,00	25	201	11	6,35	**MS1160**	T20
Sol yönlü												
3871033	**A16RA4SAL2S12M017021**	2S	12,00	17	21	2,00	16	201	7	4,00	**MS1160**	T20
3871034	**A20RA4SAL2S12M021026**	2S	12,00	21	26	2,00	20	201	9	4,00	**MS1160**	T20
3871035	**A25RA4SAL2S12M026036**	2S	12,00	26	36	2,00	25	201	12	6,35	**MS1160**	T20
3871037	**A25RA4SAL3S14M026036**	3S	14,00	26	36	3,00	25	201	11	6,35	**MS1160**	T20

Fix-Perfect™ Hassas taşlanmış kesici uç programı beklentileri Beyond™ teknolojisi ile aşıyor!

Fix-Perfect™



Bu hassas taşlanmış kesici uçların devrim niteliğinde yaratıcı performans özellikleri, çelik, dökme demir ve paslanmaz çelikten iş parçası malzemelerini işlerken üstün konumlandırma hassasiyeti ve mükemmel talaş akışı sağlar.

Fix-Perfect Beyond kesici uçlar, akışkan teknolojisi, enerji, otomotiv, ağır donanım imalatı ve genel makina imalatı uygulamaları da dahil olmak üzere, çok sayıda endüstride işleme süreçleri için ideal bir çözümdür.

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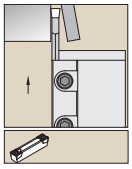
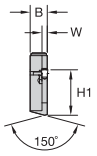
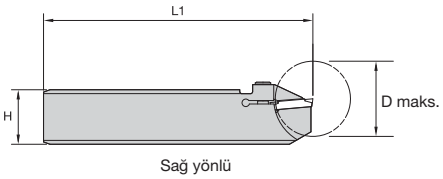
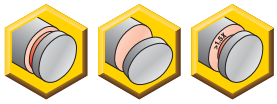






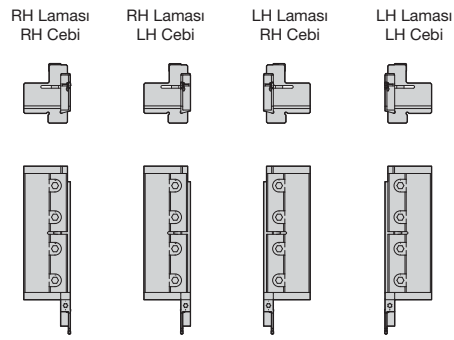


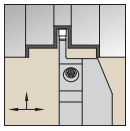
Tek uçlu kesme ve dilimleme laması • Metrik



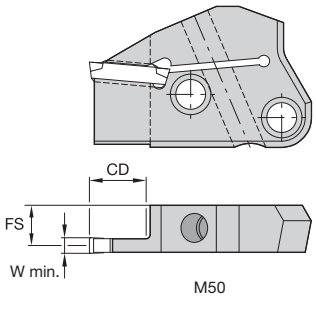
Sipariş numarası	Katalog numarası	Yuva ölçüsü	H	W	H1	L1	B	D maks.	Sıkma vidası	Torx
Sağ yönlü										
3967127	**A4BHCL26K0317R**	3	26	3,0	21,4	125	7,95	35	**MS1571**	T20
3967124	**A4BHCL32K0317R**	3	32	3,0	25,0	125	7,95	35	**MS1571**	T20
3967117	**A4BHCR32K0217R**	2	32	2,0	25,0	125	7,95	35	**MS1571**	T20
Sol yönlü										
3967136	**A4BHCL32K0217L**	2	32	2,0	25,0	125	7,95	35	**MS1571**	T20
3967137	**A4BHCL32K0317L**	3	32	3,0	25,0	125	7,95	35	**MS1571**	T20
3967134	**A4BHCR26K0317L**	3	26	3,0	21,4	125	7,95	35	**MS1571**	T20

NOT: Uç yuvası ölçüsü sadece 1 olan kesme lamaları.
170.137 ve 170.130 montaj anahtarları ayrı sipariş edilmelidir.

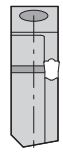


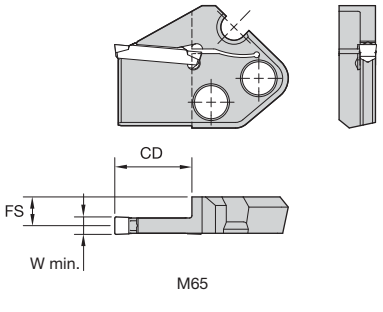

Sağ yön gösterir.





M50

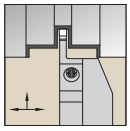

Sağ yönlü



M65

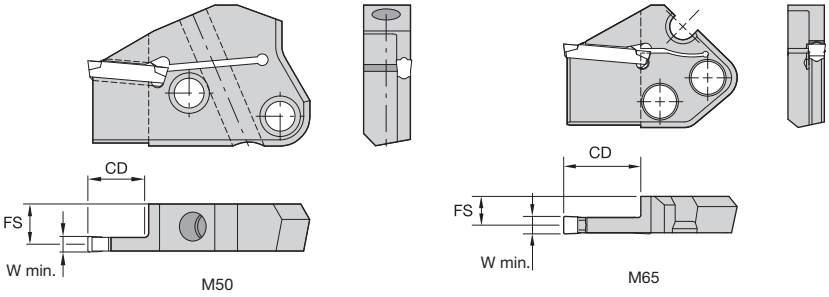
Düz kesme laması, içten soğutmalı

Sipariş numarası	Katalog numarası	Yuva ölçüsü	CD	FS	Lama ölçüsü
Sağ yönlü					
6401815	**A4M50R0314MC**	3	14,0	10,42	50
6401817	**A4M50R0414MC**	4	14,0	9,92	50
6401819	**A4M50R0519MC**	5	19,0	9,42	50
6401834	**A4M65R0620MC**	6	20,0	9,88	65
6401838	**A4M65R0820MC**	8	20,0	9,00	65
6401852	**A4M65R1020MC**	10	20,0	8,35	65
6401831	**A4M65R0522MC**	5	22,0	10,28	65
6401835	**A4M65R0626MC**	6	26,0	9,88	65
6401839	**A4M65R0826MC**	8	26,0	9,00	65
6401853	**A4M65R1026MC**	10	26,0	8,35	65
Sol yönlü					
6401814	**A4M50L0314MC**	3	14,0	10,42	50
6401816	**A4M50L0414MC**	4	14,0	9,92	50
6401818	**A4M50L0519MC**	5	19,0	9,43	50
6401832	**A4M65L0620MC**	6	20,0	9,88	65
6401836	**A4M65L0820MC**	8	20,0	9,00	65
6401840	**A4M65L1020MC**	10	20,0	8,35	65
6401820	**A4M65L0522MC**	5	22,0	10,28	65
6401833	**A4M65L0626MC**	6	26,0	9,88	65
6401837	**A4M65L0826MC**	8	26,0	9,00	65
6401851	**A4M65L1026MC**	10	26,0	8,35	65



Sağ yön gösterir..



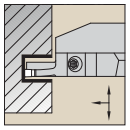


Sağ yönlü

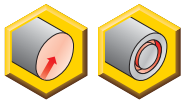
Modüler düz kesme laması

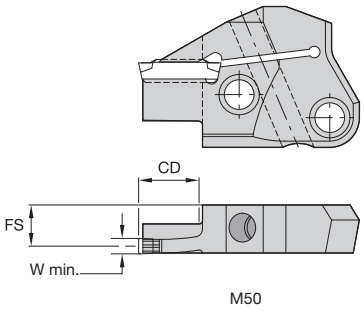
Sipariş numarası	Katalog numarası	Yuva ölçüsü	W min.	CD	FS	Lama ölçüsü
Sağ yönlü						
3051624	**A4M50R0214M**	2	2,00	14,0	10,87	50
1989348	**A4M50R0314M**	3	3,00	14,0	10,43	50
1989350	**A4M50R0414M**	4	4,00	14,0	9,93	50
1989352	**A4M50R0519M**	5	5,00	19,0	9,43	50
3557114	**A4M65R0620M**	6	6,00	20,0	9,88	65
3557116	**A4M65R0626M**	6	6,00	26,0	9,88	65
3557120	**A4M65R0826M**	8	8,00	26,0	9,00	65
3557124	**A4M65R1026M**	10	10,00	26,0	8,35	65
Sol yönlü						
3022625	**A4M50L0214M**	2	2,00	14,0	10,87	50
1989347	**A4M50L0314M**	3	3,00	14,0	10,43	50
1989349	**A4M50L0414M**	4	4,00	14,0	9,93	50
3051623	**A4M50L2B14M**	2B	2,50	14,0	10,70	50
1989351	**A4M50L0519M**	5	5,00	19,0	9,43	50
3557115	**A4M65L0620M**	6	6,00	20,0	9,88	65
3557119	**A4M65L0820M**	8	8,00	20,0	9,00	65
3557123	**A4M65L1020M**	10	10,00	20,0	8,35	65
3557117	**A4M65L0626M**	6	6,00	26,0	9,88	65
3557121	**A4M65L0826M**	8	8,00	26,0	9,00	65
3557125	**A4M65L1026M**	10	10,00	26,0	8,35	65

NOT: 2B ölçüsünde uç yuvası için sadece 2B kesici uçlar kullanılır. 2 ölçüsünde uç yuvası için sadece 2 veya 2B kesici uçlar kullanılır.

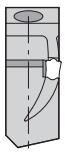


Sağ yön gösterir.

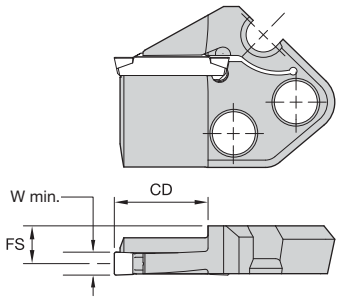




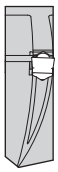
M50

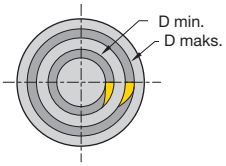


Sağ yönlü



M65





Modüler alına kanal açma laması • İçbükey

Sipariş numarası	Katalog numarası	Yuva ölçüsü	D min.	D maks.	Kartuş ölçüsü
Sağ yönlü					
3051670	**A4M50R0212A036046**	2	36	46	50
3051671	**A4M50R0212A042054**	2	42	54	50
3051672	**A4M50R0212A050064**	2	50	64	50
3051673	**A4M50R0212A060084**	2	60	84	50
3051674	**A4M50R0212A080124**	2	80	124	50
3051675	**A4M50R0212A120254**	2	120	254	50
3051676	**A4M50R0212A250999**	2	250	–	50
2542517	**A4M50R0314A036048**	3	36	48	50
2542518	**A4M50R0314A042058**	3	42	58	50
2542519	**A4M50R0314A052074**	3	52	74	50
2542520	**A4M50R0314A068100**	3	68	100	50
2542521	**A4M50R0314A090160**	3	90	160	50
2542522	**A4M50R0314A130300**	3	130	300	50
2542523	**A4M50R0314A290999**	3	290	–	50
2542531	**A4M50R0414A048072**	4	48	72	50
2542532	**A4M50R0414A064100**	4	64	100	50
2542533	**A4M50R0414A092150**	4	92	150	50
2542534	**A4M50R0414A132300**	4	132	300	50
2542535	**A4M50R0414A290999**	4	290	–	50
2542541	**A4M50R0519A058094**	5	58	94	50
2542542	**A4M50R0519A080136**	5	80	136	50
2542543	**A4M50R0519A120300**	5	120	300	50
2542544	**A4M50R0519A250999**	5	250	–	50
3557131	**A4M65R0624A070-112**	6	70	112	65
3557163	**A4M65R0624A100-212**	6	100	212	65
3557165	**A4M65R0624A200-999**	6	200	999	65
3557167	**A4M65R0824A090-200**	8	90	200	65
3557169	**A4M65R0824A184-999**	8	184	999	65
3557173	**A4M65R1024A200-999**	10	200	999	65

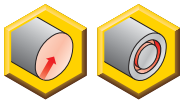
(*devamı*)

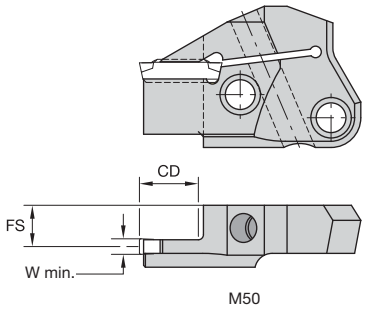
(Modüler alına kanal açma laması • İçbükey — devamı)

Sipariş numarası	Katalog numarası	Yuva ölçüsü	D min.	D maks.	Kartuş ölçüsü
Sol yönlü					
3051629	**A4M50L0212A060084**	2	60	84	50
3051631	**A4M50L0212A120254**	2	120	254	50
3051632	**A4M50L0212A250999**	2	250	—	50
2542524	**A4M50L0314A036048**	3	36	48	50
2542527	**A4M50L0314A068100**	3	68	100	50
2542528	**A4M50L0314A090160**	3	90	160	50
2542529	**A4M50L0314A130300**	3	130	300	50
2542530	**A4M50L0314A290999**	3	290	—	50
2542537	**A4M50L0414A064100**	4	64	100	50
2542538	**A4M50L0414A092150**	4	92	150	50
2542539	**A4M50L0414A132300**	4	132	300	50
2542540	**A4M50L0414A290999**	4	290	—	50
2542545	**A4M50L0519A058094**	5	58	94	50
2542546	**A4M50L0519A080136**	5	80	136	50
2542547	**A4M50L0519A120300**	5	120	300	50
2542548	**A4M50L0519A250999**	5	250	—	50
3557132	**A4M65L0624A070-112**	6	70	112	65
3557164	**A4M65L0624A100-212**	6	100	212	65
3557166	**A4M65L0624A200-999**	6	200	999	65
3557174	**A4M65L1024A200-999**	10	200	999	65



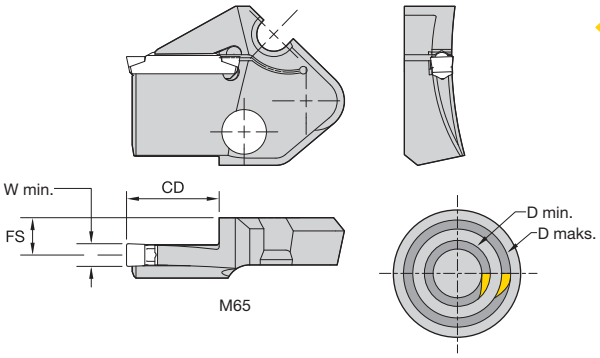
Sağ yönü gösterir.





M50

Sağ yönlü



M65

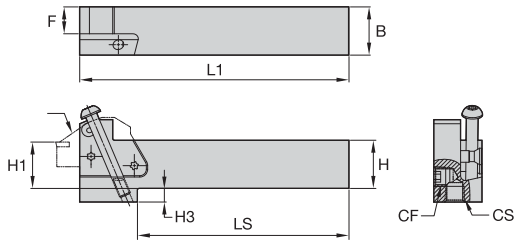
Modüler alına kanal açma laması • Dışbükey

Sipariş numarası	Katalog numarası	Yuva ölçüsü	D min.	D maks.	CD	FS	Kartuş ölçüsü
Sağ yönlü							
3051677	**A4M50R0212B036046**	2	36	46	12,00	10,900	50
3051678	**A4M50R0212B042054**	2	42	54	12,00	10,900	50
3051679	**A4M50R0212B050064**	2	50	64	12,00	10,900	50
3051680	**A4M50R0212B060084**	2	60	84	12,00	10,900	50
3051681	**A4M50R0212B080124**	2	80	124	12,00	10,900	50
3051682	**A4M50R0212B120254**	2	120	254	12,00	10,900	50
3051683	**A4M50R0212B250999**	2	250	–	12,00	10,900	50
3867457	**A4M50R2S12B016020**	2S	16	20	12,00	10,900	50
3867458	**A4M50R2S12B020025**	2S	20	25	12,00	10,900	50
3867459	**A4M50R2S12B025036**	2S	25	36	12,00	10,900	50
2398751	**A4M50R0314B036048**	3	36	48	14,00	10,500	50
2398752	**A4M50R0314B042058**	3	42	58	14,00	10,500	50
2398763	**A4M50R0314B052074**	3	52	74	14,00	10,500	50
2398764	**A4M50R0314B068100**	3	68	100	14,00	10,500	50
2398765	**A4M50R0314B090160**	3	90	160	14,00	10,500	50
2398766	**A4M50R0314B130300**	3	130	300	14,00	10,500	50
2398767	**A4M50R0314B290999**	3	290	–	14,00	10,500	50
2398775	**A4M50R0414B048072**	4	48	72	14,00	10,000	50
2398776	**A4M50R0414B064100**	4	64	100	14,00	10,000	50
2398777	**A4M50R0414B092150**	4	92	150	14,00	10,000	50
2398778	**A4M50R0414B132300**	4	132	300	14,00	10,000	50
2398779	**A4M50R0414B290999**	4	290	–	14,00	10,000	50
3867460	**A4M50R3S14B020025**	3S	20	25	14,00	10,490	50
3867461	**A4M50R3S14B025036**	3S	25	36	14,00	10,490	50
3867462	**A4M50R4S14B025035**	4S	25	35	14,00	10,000	50
3867464	**A4M50R5S17B028038**	5S	28	38	17,00	9,500	50
2398785	**A4M50R0519B058094**	5	58	94	19,00	9,500	50
2398786	**A4M50R0519B080136**	5	80	136	19,00	9,500	50
2398787	**A4M50R0519B120300**	5	120	300	19,00	9,500	50
2398788	**A4M50R0519B250999**	5	250	–	19,00	9,500	50
3557175	**A4M65R0624B070-112**	6	70	112	24,00	9,870	65
3557177	**A4M65R0624B100-212**	6	100	212	24,00	9,870	65
3557179	**A4M65R0624B200-999**	6	200	999	24,00	9,870	65
3557181	**A4M65R0824B090-200**	8	90	200	24,00	9,000	65
3557193	**A4M65R0824B184-999**	8	184	999	24,00	9,000	65
3557195	**A4M65R1024B100-220**	10	100	220	24,00	8,350	65
3557197	**A4M65R1024B200-999**	10	200	999	24,00	8,350	65

(*devamı*)

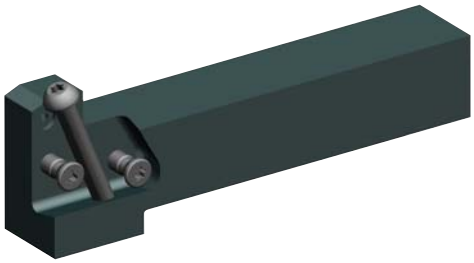
(Modüler alına kanal açma laması • Dışbükey — devamı)

Sipariş numarası	Katalog numarası	Yuva ölçüsü	D min.	D maks.	CD	FS	Kartuş ölçüsü
Sol yönlü							
3051663	**A4M50L0212B036046**	2	36	46	12,00	10,900	50
3051664	**A4M50L0212B042054**	2	42	54	12,00	10,900	50
3051665	**A4M50L0212B050064**	2	50	64	12,00	10,900	50
3051666	**A4M50L0212B060084**	2	60	84	12,00	10,900	50
3051667	**A4M50L0212B080124**	2	80	124	12,00	10,900	50
3051668	**A4M50L0212B120254**	2	120	254	12,00	10,900	50
3867466	**A4M50L2S12B016020**	2S	16	20	12,00	10,900	50
3867467	**A4M50L2S12B020025**	2S	20	25	12,00	10,900	50
3867468	**A4M50L2S12B025036**	2S	25	36	12,00	10,900	50
2398768	**A4M50L0314B036048**	3	36	48	14,00	10,500	50
2398769	**A4M50L0314B042058**	3	42	58	14,00	10,500	50
2398770	**A4M50L0314B052074**	3	52	74	14,00	10,500	50
2398771	**A4M50L0314B068100**	3	68	100	14,00	10,500	50
2398772	**A4M50L0314B090160**	3	90	160	14,00	10,500	50
2398773	**A4M50L0314B130300**	3	130	300	14,00	10,500	50
2398774	**A4M50L0314B290999**	3	290	—	14,00	10,500	50
2398780	**A4M50L0414B048072**	4	48	72	14,00	10,000	50
2398781	**A4M50L0414B064100**	4	64	100	14,00	10,000	50
2398782	**A4M50L0414B092150**	4	92	150	14,00	10,000	50
2398783	**A4M50L0414B132300**	4	132	300	14,00	10,000	50
2398784	**A4M50L0414B290999**	4	290	—	14,00	10,000	50
3867469	**A4M50L3S14B020025**	3S	20	25	14,00	10,490	50
3867470	**A4M50L3S14B025036**	3S	25	36	14,00	10,490	50
3867472	**A4M50L4S14B035048**	4S	35	48	14,00	10,000	50
3867484	**A4M50L5S17B028038**	5S	28	38	17,00	9,500	50
2398789	**A4M50L0519B058094**	5	58	94	19,00	9,500	50
2398790	**A4M50L0519B080136**	5	80	136	19,00	9,500	50
2398791	**A4M50L0519B120300**	5	120	300	19,00	9,500	50
2398792	**A4M50L0519B250999**	5	250	—	19,00	9,500	50
3557176	**A4M65L0624B070-112**	6	70	112	24,00	9,870	65
3557178	**A4M65L0624B100-212**	6	100	212	24,00	9,870	65
3557180	**A4M65L0624B200-999**	6	200	999	24,00	9,870	65
3557182	**A4M65L0824B090-200**	8	90	200	24,00	9,000	65
3557194	**A4M65L0824B184-999**	8	184	999	24,00	9,000	65
3557198	**A4M65L1024B200-999**	10	200	999	24,00	8,350	65



M50
2 Lama vidası gereklidir.

Sağ yönlü



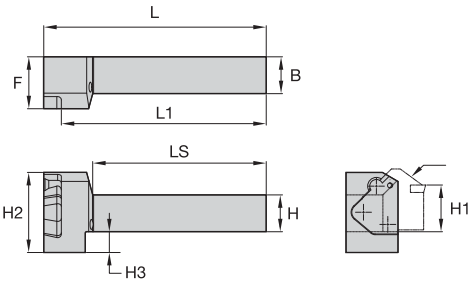
Modüler düz takım tutucu • Metrik

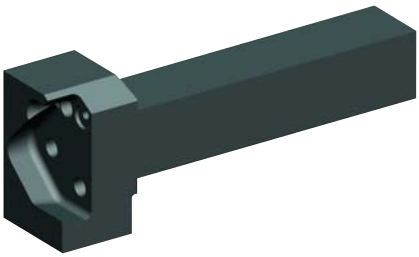
NOT: Modüler, içten soğutmalı takım tutucular için C58 sayfasına bakınız.




Sipariş numarası	Katalog numarası	B	H	L1	F	LS	H3	Lama vidası	Torx	Sıkma vidası	Torx
Sağ yönlü											
1600249	**KGMSR2525M50**	25	25	138,75	13,84	109,00	7,00	**MS1162**	T25	**MS2002**	T25
3553429	**KGMSR2525M65**	25	25	150,00	13,00	120,00	14,00	**MS1163**	T30	**–**	–
1621083	**KGMSR3232P50**	32	32	158,75	20,81	–	–	**MS1162**	T25	**MS2002**	T25
3553431	**KGMSR3232P65**	32	32	170,00	20,79	158,00	7,00	**MS1163**	T30	**–**	–
Sol yönlü											
1600250	**KGMSL2525M50**	25	25	138,75	13,84	109,00	7,00	**MS1162**	T25	**MS2002**	T25
3553430	**KGMSL2525M65**	25	25	150,00	13,00	120,00	14,00	**MS1163**	T30	**–**	–
1621084	**KGMSL3232P50**	32	32	158,75	20,81	–	–	**MS1162**	T25	**MS2002**	T25
3553432	**KGMSL3232P65**	32	32	170,00	20,79	158,00	7,00	**MS1163**	T30	**–**	–

NOT: KGMS..: Sağ yönlü tutucuda sağ yönlü kesme lamaları kullanır.
KGME..: Sağ yönlü tutucuda sol yönlü kesme lamaları kullanır.
M50 Kesme laması ve çene vidası torku 8–10 Nm' dir (71–88 inç lb.).
M65 Kesme laması ve çene vidası torku 18–20 Nm' dir (159–177 inç lb.).





M65
2 Lama vidası gereklidir.

Sağ yönlü

Modüler uçtan monte takım tutucular • Metrik

NOT: Modüler, içten soğutmalı uçtan bağlamalı takım tutucular için C59 sayfasına bakınız.

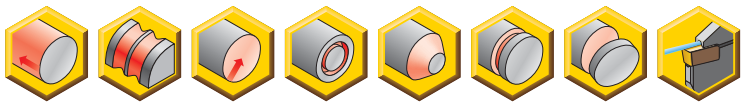


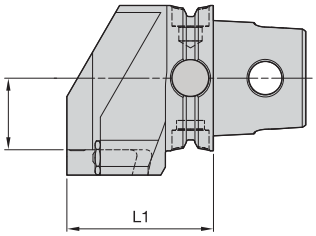


Sipariş numarası	Katalog numarası	B	H	L1	F	LS	H3	L	lama vidası (2 adet gerekli)	Torx	Sıkma vidası	Torx
Sağ yönlü												
1600270	**KGMER2525M50**	25	25	139,25	42,75	125,25	6,84	150,25	**MS1162**	T25	**MS2002**	T25
3553453	**KGMER2525M65**	25	25	138,15	35,00	129,00	14,00	150,00	**MS1163**	T30	**–**	–
1621085	**KGMER3232P50**	32	32	159,25	42,75	145,25	–	170,25	**MS1162**	T25	**MS2002**	T25
3553455	**KGMER3232P65**	32	32	158,15	35,00	153,00	7,00	170,00	**MS1163**	T30	**–**	–
Sol yönlü												
1600271	**KGMEL2525M50**	25	25	139,25	42,75	125,25	6,84	150,25	**MS1162**	T25	**MS2002**	T25
3553454	**KGMEL2525M65**	25	25	138,15	35,00	129,00	14,00	150,00	**MS1163**	T30	**–**	–
1621086	**KGMEL3232P50**	32	32	159,25	42,75	145,25	–	170,25	**MS1162**	T25	**MS2002**	T25
3553456	**KGMEL3232P65**	32	32	158,15	35,00	153,00	7,00	170,00	**MS1163**	T30	**–**	–

NOT: KGMS..: Sağ yönlü tutucuda sağ yönlü kesme lamaları kullanır.
KGME...: Sağ yönlü tutucuda sol yönlü kesme lamaları kullanır.
M50 Kesme laması ve çene vidası torku 8–10 Nm' dir (71–88 inç lb.).
M65 Kesme laması ve çene vidası torku 18–20 Nm' dir (159–177 inç lb.).

- Sınıfının en iyisi KM Hızlı değiştirme özellikli gövde.
- İçten soğutmalı uç yuvası özelliği.
- Çok yönlülük ve kesme derinliği için birbirleriyle değiştirilebilir kesme lamaları.







Sağ yönlü

KM QUICK CHANGE

İçten soğutmalı eksenel konumda KM Sistemi

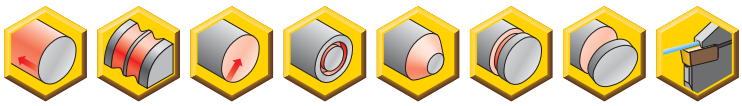


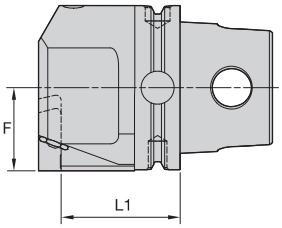


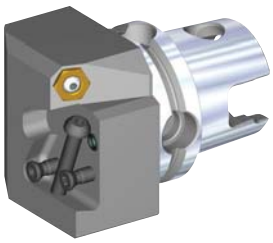
Sipariş numarası	Katalog numarası	CSMS Sistem ölçüsü	L1	F	Lama ölçüsü	Lama vidası	Torx	Sıkma vidası	Torx
Sağ yönlü									
5999790	**KM40TSKGMSR50C**	KM40TS	53,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000422	**KM50TSKGMSR65C**	KM50TS	53,5	22,0	65	**MS1163**	T30	**–**	–
5999864	**KM50TSKGMSR50C**	KM50TS	58,5	23,0	50	**MS1162**	T25	**MS2002**	T25
6000431	**KM63TSKGMSR65C**	KM63TS	58,5	30,0	65	**MS1163**	T30	**–**	–
5999948	**KM63TSKGMSR50C**	KM63TS	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
5999972	**KM63XMZKGMSR50CY**	KM63XMZ	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
6017695	**KM80TSKGMSR65C**	KM80TS	63,5	40,0	65	**MS1163**	T30	**–**	–
6000018	**KM80ATCKGMSR50C**	KM80ATC	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25
6000014	**KM80TSKGMSR50C**	KM80TS	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25
Sol yönlü									
5999861	**KM40TSKGMSL50C**	KM40TS	53,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000424	**KM50TSKGMSL65C**	KM50TS	53,5	22,0	65	**MS1163**	T30	**–**	–
5999865	**KM50TSKGMSL50C**	KM50TS	58,5	23,0	50	**MS1162**	T25	**MS2002**	T25
6000433	**KM63TSKGMSL65C**	KM63TS	58,5	30,0	65	**MS1163**	T30	**–**	–
5999949	**KM63TSKGMSL50C**	KM63TS	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
5999973	**KM63XMZKGMSLF50CY**	KM63XMZ	63,5	31,0	50	**MS1162**	T25	**MS2002**	T25
6017696	**KM80TSKGMSL65C**	KM80TS	63,5	40,0	65	**MS1163**	T30	**–**	–
6000019	**KM80ATCKGMSL50C**	KM80ATC	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25
6000015	**KM80TSKGMSL50C**	KM80TS	66,5	41,0	50	**MS1162**	T25	**MS2002**	T25

NOT: KGMS..: Sağ yönlü tutucu ile sağ yönlü lamalar kullanılır.
KGME..: Sağ yönlü tutucu ile sol yönlü lamalar kullanılır.
M50 lama ve bağlama vidası tork değeri 8–10 Nm (71–88 inç lbs.).
M65 lama ve bağlama vidası tork değeri 18–20 Nm (159–177 inç lbs.).

- Sınıfının en iyisi KM Hızlı değiştirme özellikli gövde.
- İçten soğutmalı uç yuvası özelliği.
- Çok yönlülük ve kesme derinliği için birbirleriyle değiştirilebilir kesme lamaları.






Sağ yönlü

KM QUICK CHANGE

İçten soğutmalı radyal bağlamalı modüler KM Sistemi • Metrik

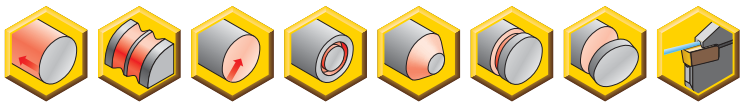


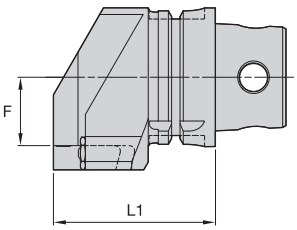


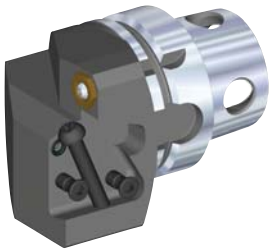
Sipariş numarası	Katalog numarası	CSMS Sistem ölçüsü	L1	F	Lama ölçüsü	Lama vidası	Torx	Sıkma vidası	Torx
Sağ yönlü									
5999788	**KM40TSKGMER50C**	KM40TS	28,0	20,50	50	**MS1162**	T25	**MS2002**	T25
5999862	**KM50TSKGMER50C**	KM50TS	38,0	25,50	50	**MS1162**	T25	**MS2002**	T25
6000410	**KM50TSKGMER65C**	KM50TS	47,0	25,50	65	**MS1163**	T30	**–**	–
6000425	**KM63TSKGMER65C**	KM63TS	47,0	32,52	65	**MS1163**	T30	**–**	–
5999946	**KM63TSKGMER50C**	KM63TS	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6000434	**KM63XMZKGMER65CY**	KM63XMZ	47,0	32,50	65	**MS1163**	T30	**–**	–
5999950	**KM63XMZKGMER50CY**	KM63XMZ	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6017697	**KM80ATCKGMER65C**	KM80ATC	57,0	40,50	65	**MS1163**	T30	**–**	–
6000016	**KM80ATCKGMER50C**	KM80ATC	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25
6017693	**KM80TSKGMER65C**	KM80TS	57,0	40,50	65	**MS1163**	T30	**–**	–
6000012	**KM80TSKGMER50C**	KM80TS	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25
Sol yönlü									
5999789	**KM40TSKGMEL50C**	KM40TS	28,0	20,50	50	**MS1162**	T25	**MS2002**	T25
5999863	**KM50TSKGMEL50C**	KM50TS	38,0	25,50	50	**MS1162**	T25	**MS2002**	T25
6000421	**KM50TSKGMEL65C**	KM50TS	47,0	25,50	65	**MS1163**	T30	**–**	–
6000430	**KM63TSKGMEL65C**	KM63TS	47,0	32,52	65	**MS1163**	T30	**–**	–
5999947	**KM63TSKGMEL50C**	KM63TS	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6000436	**KM63XMZKGMELF65CY**	KM63XMZ	47,0	32,50	65	**MS1163**	T30	**–**	–
5999971	**KM63XMZKGMELF50CY**	KM63XMZ	48,0	32,50	50	**MS1162**	T25	**MS2002**	T25
6017698	**KM80ATCKGMEL65C**	KM80ATC	57,0	40,50	65	**MS1163**	T30	**–**	–
6000017	**KM80ATCKGMEL50C**	KM80ATC	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25
6017694	**KM80TSKGMEL65C**	KM80TS	57,0	40,50	65	**MS1163**	T30	**–**	–
6000013	**KM80TSKGMEL50C**	KM80TS	58,0	40,50	50	**MS1162**	T25	**MS2002**	T25

NOT: KGMS..: Sağ yönlü tutucu ile sağ yönlü lamalar kullanılır.
KGME..: Sağ yönlü tutucu ile sol yönlü lamalar kullanılır.
M50 lama ve bağlama vidası tork değeri 8–10 Nm (71–88 inç lbs.).
M65 lama ve bağlama vidası tork değeri 18–20 Nm (159–177 inç lbs.).

- Uç yuvası içinden geçen soğutma sıvısı beslemesi mümkün.
- Çok yönlülük ve kesme derinliği için birbiriyle değiştirilebilir lamalar.







Sağ yönlü

İçten soğutmalı eksenel konumda modüler KM4X™ Sistemi

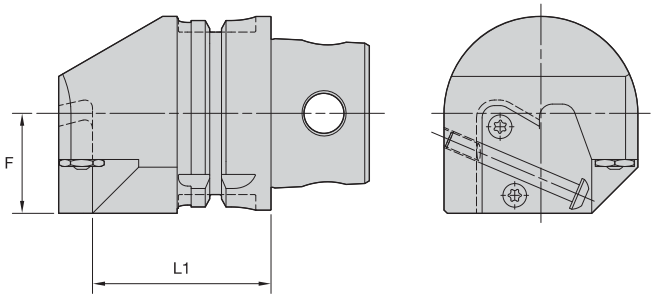


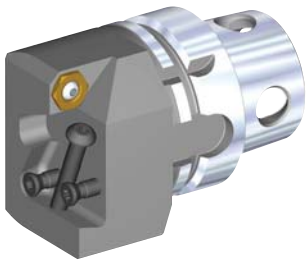


Sipariş numarası	Katalog numarası	CSMS Sistem ölçüsü	L1	F	Lama ölçüsü	Lama vidası	Torx	Sıkma vidası	Torx
Sağ yönlü									
5543560	**KM4X63KGMSR65C**	KM4X63	68,5	30,0	65	**MS1163**	T30	**–**	–
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	31,0	50	**MS1162**	T25	**MS2002**	T25
Sol yönlü									
5543558	**KM4X63KGMSL65C**	KM4X63	68,5	30,0	65	**MS1163**	T30	**–**	–
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	31,0	50	**MS1162**	T25	**MS2002**	T25

NOT: KGMS..: Sağ yönlü tutucu ile sağ yönlü lamalar kullanılır.
KGME..: Sağ yönlü tutucu ile sol yönlü lamalar kullanılır.
M50 lama ve bağlama vidası tork değeri 8–10 Nm (71–88 inç lbs.).
M65 lama ve bağlama vidası tork değeri 18–20 Nm (159–177 inç lbs.).







Sağ yönlü

İçten soğutmalı radyal bağlamalı modüler KM4X™ Sistemi

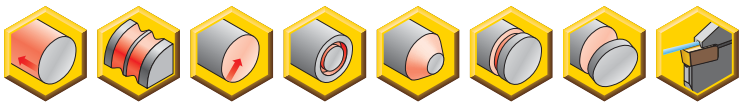


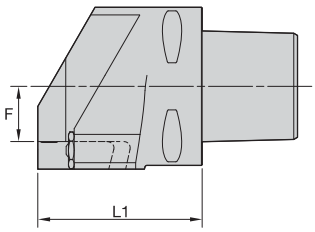


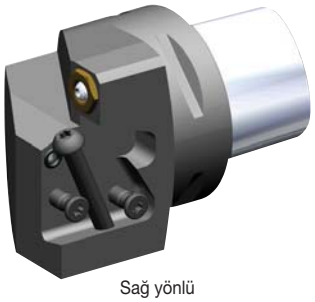


Sipariş numarası	Katalog numarası	CSMS Sistem ölçüsü	L1	F	Kartuş ölçüsü	Lama vidası	Üfleç	Sıkma vidası	kg	lbs
Sağ yönlü										
5543555	**KM4X63KGMER65C**	KM4X63	57,0	32,5	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000404	**KM4X63KGMER50C**	KM4X63	58,0	32,5	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000407	**KM4X63KGMSR50C**	KM4X63	73,5	31,0	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11
Sol yönlü										
5543553	**KM4X63KGMEL65C**	KM4X63	57,0	32,5	65	**MS1163**	**PMT04525**	**–**	1,87	4.13
6000405	**KM4X63KGMEL50C**	KM4X63	58,0	32,5	50	**MS1162**	**PMT04525**	**MS2002**	1,85	4.08
6000408	**KM4X63KGMSL50C**	KM4X63	73,5	31,0	50	**MS1162**	**PMT04525**	**MS2002**	1,86	4.11

- Standart PSC Hızlı değiştirme gövdesi.
- İçten soğutmalı uç yuvası özelliği.
- Çok yönlülük ve kesme derinliği için birbiriyle değiştirilebilir lamalar.







Sağ yönlü

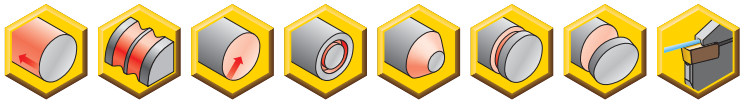
İçten soğutmalı eksenel konumda modüler PSC Sistemi

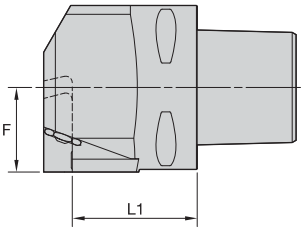


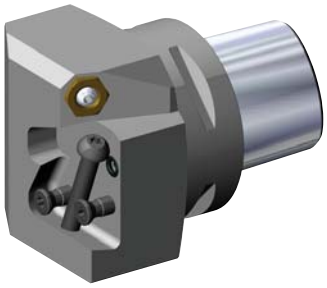


Sipariş numarası	Katalog numarası	CSMS Sistem ölçüsü	L1	F	Lama ölçüsü	Lama vidası	Torx	Sıkma vidası	Torx
Sağ yönlü									
6000028	**PSC40KGMSR50C**	PSC40	63,5	10,0	50	**MS1162**	T25	**MS2002**	T25
5405654	**PSC50KGMSR65C**	PSC50	49,0	25,5	65	**MS1163**	T30	**–**	–
6000152	**PSC50KGMSR50C**	PSC50	63,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000464	**PSC63KGMSR65C**	PSC63	60,5	21,0	65	**MS1163**	T30	**–**	–
6000211	**PSC63KGMSR50C**	PSC63	65,5	22,0	50	**MS1162**	T25	**MS2002**	T25
6000468	**PSC80KGMSR65C**	PSC80	68,5	29,0	65	**MS1163**	T30	**–**	–
6000216	**PSC80KGMSR50C**	PSC80	73,5	30,0	50	**MS1162**	T25	**MS2002**	T25
Sol yönlü									
6000029	**PSC40KGMSL50C**	PSC40	63,5	10,0	50	**MS1162**	T25	**MS2002**	T25
5405655	**PSC50KGMSL65C**	PSC50	49,0	25,5	65	**MS1163**	T30	**–**	–
6000153	**PSC50KGMSL50C**	PSC50	63,5	15,0	50	**MS1162**	T25	**MS2002**	T25
6000465	**PSC63KGMSL65C**	PSC63	60,5	21,0	65	**MS1163**	T30	**–**	–
6000213	**PSC63KGMSL50C**	PSC63	65,5	22,0	50	**MS1162**	T25	**MS2002**	T25
6000469	**PSC80KGMSL65C**	PSC80	68,5	29,0	65	**MS1163**	T30	**–**	–
6000217	**PSC80KGMSL50C**	PSC80	73,5	30,0	50	**MS1162**	T25	**MS2002**	T25

- Standart PSC Hızlı değiştirme gövdesi.
- İçten soğutmalı uç yuvası özelliği.
- Çok yönlülük ve kesme derinliği için birbiriyle değiştirilebilir lamalar.







Sağ yönlü

İçten soğutmalı radyal bağlamalı modüler PSC Sistemi





Sipariş numarası	Katalog numarası	CSMS Sistem ölçüsü	L1	F	Lama ölçüsü	Lama vidası	Torx	Sıkma vidası	Torx
Sağ yönlü									
6000026	**PSC40KGMER50C**	PSC40	33,0	20,5	50	**MS1162**	T25	**MS2002**	T25
6000030	**PSC50KGMER50C**	PSC50	43,0	25,5	50	**MS1162**	T25	**MS2002**	T25
5405652	**PSC50KGMER65C**	PSC50	55,5	22,0	65	**MS1163**	T30	**–**	–
6000159	**PSC63KGMER50C**	PSC63	48,0	32,5	50	**MS1162**	T25	**MS2002**	T25
6000462	**PSC63KGMER65C**	PSC63	49,0	32,5	65	**MS1163**	T30	**–**	–
6000466	**PSC80KGMER65C**	PSC80	57,0	40,5	65	**MS1163**	T30	**–**	–
6000214	**PSC80KGMER50C**	PSC80	58,0	40,5	50	**MS1162**	T25	**MS2002**	T25
Sol yönlü									
6000027	**PSC40KGMEL50C**	PSC40	33,0	20,5	50	**MS1162**	T25	**MS2002**	T25
6000151	**PSC50KGMEL50C**	PSC50	43,0	25,5	50	**MS1162**	T25	**MS2002**	T25
5405653	**PSC50KGMEL65C**	PSC50	55,5	22,0	65	**MS1163**	T30	**–**	–
6000160	**PSC63KGMEL50C**	PSC63	48,0	32,5	50	**MS1162**	T25	**MS2002**	T25
6000463	**PSC63KGMEL65C**	PSC63	49,0	32,5	65	**MS1163**	T30	**–**	–
6000467	**PSC80KGMEL65C**	PSC80	57,0	40,5	65	**MS1163**	T30	**–**	–
6000215	**PSC80KGMEL50C**	PSC80	58,0	40,5	50	**MS1162**	T25	**MS2002**	T25

Top Notch™

Sığ kanal tornalama ve tornalama uygulamalarınız için kanal açma takımları ve Beyond™ kesici uçlar

Birincil uygulama

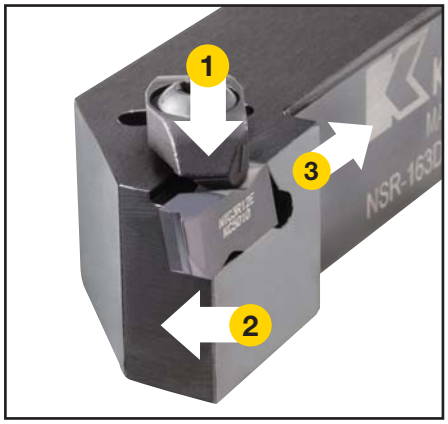
Top Notch Kanal açma yüksek verimlilik için kanıtlanmış çözümdür. Top Notch sistemi, mükemmel yüzey kalitesi ve üstün takım ömrü sağlamak için kararlı takım performansı, doğru kesici uç değiştirme ve üstün bağlama özelliği sağlamaktadır.

Özellikler ve Avantajlar

- Beyond PVD kaplamalı kaliteler çok çeşitli iş parçası malzemelerini kesmek için tasarlanmıştır.
- Rijit bağlama özelliği, en tok kesmeler sırasında bile kesici ucu yuva içinde güvenilirlikli bir şekilde kilitler.
- Çok yönlü tasarım, tek bir sistemin dış çapta ve iç çapta kanal açma, alına kanal açma, geriye tornalama, alttan kesme ve tornada pürüzsüz vida dişi açma işlemlerinin gerçekleşmesine olanak sağlar.
- Talaş kontrollü kesici uçlar kanal açmada mükemmel talaş boşalması sağlamakta ve çok yönlü tornalamada daha iyi bir talaş kontrolü elde etmektedir.







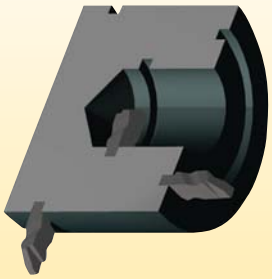
Rijit bağlama tasarımımız yüksek ilerleme hızlı uygulamalar sırasında kesici ucun hareket etmesini önler. Bu özellik hassas son işlemeli yüzey kalitesini, daha fazla verimliliği ve uzun takım ömrü ve mükemmel eşmerkezlilik sağlar. Güçlü çeneli bağlama üç yönlü kilitleme kuvvetleri oluşturarak yanal baskı ve teğetsel kuvvetlere karşı üstün bir direnç yaratır.

Adım 1 • Gerekli kanal derinliğine göre sistem seçme

Bilinmesi gerekenler

- Kanal derinliği, genişliği ve profili.
- İşlenecek malzeme.
- Yapılacak uygulama (alına, dış çapta veya iç çapta kanal açma).
- Takım tutucu gereksinimleri (örneğin, KM™, kare şaft, sağ/sol).

Top Notch™

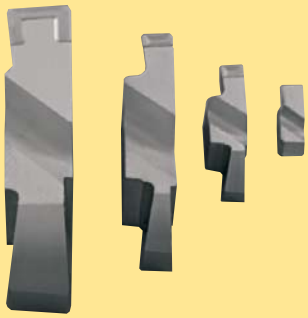


Kanal açma

Kanal genişliği ≤1.5x olan derin kanal açma için sistem grafiği incelenir ve 2. adıma geçilir.

İç çapta, dış çapta ve alına kanal açma uygulamaları için Top Notch Kanal açma

Sistem kapasitesi		Minimum (mm) olarak	Maksimum (mm) olarak
Dış çapta ve iç çapta kanal açma	Genişlik	0.31 (0.79)	.375 (9.53)
	Derinlik	.050 (1.27)	.375 (9.53)
Alına kanal açma	Genişlik	.125 (3.18)	.375 (9,53)
	Derinlik	.150 (3.81)	.250 (6.35)
İç çap kanal açma	Çap	.440 (11.2)	–
Alına kanal açma çapı	Standart	.940 (23.9)	–
	Derin	1,875 (47.6)	–
Dış çapta ve iç çapta derin kanal açma	Genişlik	.062 (1.57)	.250 (6.35)
	Derinlik	.125 (3.18)	.500 (12.70)
Alına derin kanal açma	Genişlik	.125 (3.18)	.250 (6.35)
	Derinlik	.250 (6.35)	.500 (12.70)

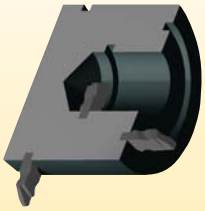


Adım 2 • Uygulamaya göre takım tutucu seçme

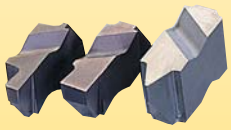
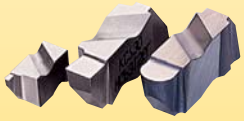
NOT: Takım tutucular, hem geleneksel kare şaft sürümleri hem de hızlı değiştirilebilen sürümler olarak bulunmaktadır.
Kesici uç ölçüsü, seçilen takım tutucuda bulunan mastar kesici uca uygun olmalıdır.

Adım 3 • Talaş kırıcı tipini ve ilerleme oranını seçme

Talaş kırıcı ve ilerleme oranları • İnç/dev.(mm/dev.)



İş parçası malzemesi ve uygulama	P	M	K	N	S	H
İlk tercih	NG-K .003–.011 (0,08–0,28)	NG-K .0025–.008 (0,07–0,20)	NG .004–.012 (0,01–0,30)	NGP .004–.012 (0,01–0,30)	NG-K .0025–.008 (0,07–0,20)	NG-ST CBN uçlu .002–.004 (0,05–0,10)
Alternatif tercih	NG .004–.012 (0,10–0,30)	NGP .004–.009 (0,10–0,23)	NG-K .003–.011 (0,08–0,28)	NG-K .003–.012 (0,08–0,30)	NGP .004–.008 (0,10–0,20)	–

_K talaş kırıcı uçlar	Düz başlı kesici uçlar	Pozitif kesme sırtlı kesici uçlar
		

Adım 4 • Kalite ve hız seçimi

Kalite önerileri

Başlangıç hızı grafiği “Uygulama rehberi” altında gösterilmiştir

	İş parçası malzemesi					
İşleme koşulları	P	M	K	N	S	H
En uygun koşullar için yüksek performans (Pürüzsüz kesme, iyi işleme koşulları, daha yüksek hız yeteneği)	**KCP10B** 120–450	**KCU10** 120–260	**KCK20B** 150–550	**KD1425** 150–1500	**KCU10** 15–170	**KB5625** 45–230
Genel kullanım amaçlı (Genel amaçlı işleme için ilk tercih)	**KCP25B** 110–365	**KCU25** 120–245	**KCU10** 60–245	**KCU10** 120–975	**KCU10** 15–135	**KB5625** 80–150
Olumsuz koşullar (kaba işleme, kötü tezgah koşulları, darbeli kesmeler, düşük hız, iç çapta kanal açma)	**KCU25** 85–270	**KCU25** 90–210	**KCU25** 50–195	**K313** 40–610	**KCU25** 8–110	**KB1630** 45–120

Adım 5 • Katalog sayfasından kesici uç ve tutucu seçme

NOT: Kesici uç ölçüsü, seçilen takım tutucunuzda bulunan mastar kesici uç ölçüsüne uygun olmalıdır.

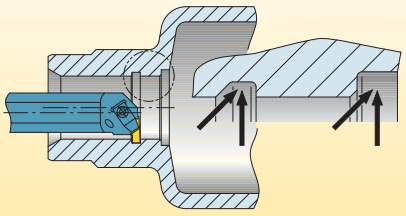
Top Notch örnek • Kanal açma

Malzeme..... Düşük alaşımlı çelik
Kanal derinliği..... 2mm (.079")
Kanal genişliği ..... 3mm (.118")
İşlem ..... İç çap kesimi, sınırlı hız yeteneği, dalarak kanal açma ve pah kırma

Öneri

Kesici uç..... NG2M300RK
Kalite.....KC5025
Kesici uç genişliği..... 3mm (.118")
Kesici uç ölçüsü.....2

Takım tutucu.....A20QNNTOL2 (metrik)
A12NEL2 (inç)
Mastar kesici uç N.2R



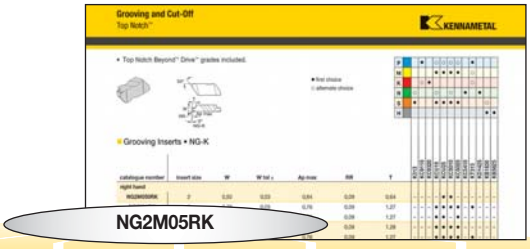
Hız: 120 m/dk. (400 Yüzey ilerleme/dk.)
İlerleme: 0,15 mm/dev. (.006 inç/dev.)

Tebrikler!

Uygulamanız için en iyi Top Notch kesici uç geometrisi, kalitesi ve kesme özelliklerini seçerek verimliliğinizi en üst düzeye çıkardınız!

Katalog numaraları nasıl kullanılır?

Kataloğumuzda yer alan numara sistemindeki her bir karakter kanal açma uçları ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.

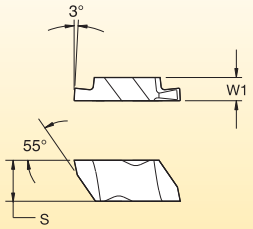


NG2M05RK

N	G		2	M	05	R		K	
Kesici uç tipi	Kesici uç tasarımı	Ek bilgi	Kesici uç ölçüsü	Boyut tanımlama	Kanal ölçüsü**	Kesici uç yönü	Kesme derinliği	Talaş kırıcı tasarımı	Kesici uçların tanımı
N = Top Notch 	**B** = Boşluk (özel formlar için) **F** = Alına kanal açma **G** = Kanal açma **P** = Geri **R** = Tam radyüs **U** = Alttan kesme (veya sırt boşluğu işleme) **V** = Poli Vee (çoklu kanallı)	**D** = Derin kanal açma **P** = Pozitif **C** = Kanal tornalama ve pah kırma	<table><tr><th>Kesici uç sayısı</th><th>W1 mm</th></tr><tr><td>1</td><td>2,54</td></tr><tr><td>2</td><td>3,81</td></tr><tr><td>3</td><td>4,95</td></tr><tr><td>4</td><td>6,98</td></tr><tr><td>5</td><td>9,65</td></tr><tr><td>6</td><td>9,73</td></tr></table>	**M** = Metrik kesici uç kanal genişliği **C** = Segman kanalı kesici uç genişliği varolan segman ölçüsünde □ = Boşluk inç olarak kesici uç genişliğini gösterir	F, G ve U tip kesici uç için kanal genişline bağlı konum, R-tip kanal açma uçları için radyüsler, kanal açma ve pah kırma uçları için segman ölçüsü. Ölçü 0,01mm. olarak. **Metrik örnek:** 3,25mm genişliğinde kanal veya radyüs “325” katalog sıralama numarası karşılığıdır. **Genişlik toleransı:** Aksi belirtilmediği sürece ±0,025mm.	**L** = Sol yönlü R = Sağ yönlü	0,01mm artışlı kanal tornalama ve pah kırma uçları için gösterilir.	**E** = Sadece honlama **K** = Standart talaş kontrolü **S** = T zırhı ve honlama **ST** = STD Kesici uç (PcBN)	Çoklu V kanallı (Poly Vee) kesici uçlar için “J” veya “L” kanal ölçüsünü, “I” iç kısımda alına kanal açma işlemini gösterir

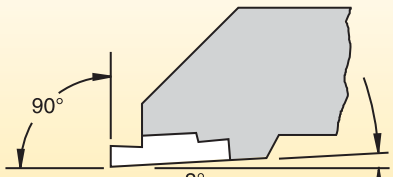
*Kennametal patentli tanımlama sistemi.
**Top Notch NB tip boşluklar için dahil olmayan konum.

Top Notch vida dişi açma ve kanal açma uç ölçüleri



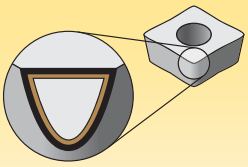
Kesici uç ölçüsü	S mm	W1 mm
1	2,54	2,54
2	5,56	3,81
3	8,74	4,95
4	11,51	6,48
5	17,48	9,65
6	11,51	9,73
8	7,93	11,13

Top Notch Tutucu tasarımı



NOT: Tutucular, aşağı tarafta arka boşluk 3° açık olan kısma kesici uçların yerleştirilmesi için tasarlanmıştır.

Kennametal ve Top Notch işleme teknolojisi, size dünyadaki en iyi vida dişi açma ve kanal açma sistemini birleştirerek getirmektedir.

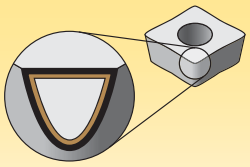


Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ⟷ Tokluk

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
KCU10	**Bileşim:** Biçim değişimine çok dayanıklı alaşımsız karbür altyapı üzerine gelişmiş çok katmanlı PVD kaplama. Yeni ve iyileştirilmiş kaplama, çok çeşitli hız ve ilerleme kapasitesi ile sürdürülebilir kenar sağlamlığını iyileştirir. **Uygulama:** KCU10™ kalite, çok çeşitli hız ve ilerleme kapasitesinde çoğu iş parçası malzemesinin hassas son işlenmesi ve genel kullanım amaçlı işlenmesi için idealdir. İyileştirilmiş kenar tokluğu, çentik direnci ve yüksek kesme hızı veya ilerleme özelliği ile çoğu çelik, paslanmaz çelik, dökme demir, demir dışı malzemeleri ve ısıl dirençli alaşımları işlemek için mükemmeldir.		P	P	P					
			M	M	M					
			K	K	K					
			N	N	N					
			S	S	S					
				H						



Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

P	Çelik
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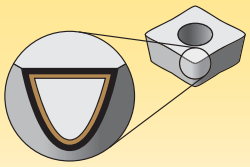
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ⟷ **Tokluk**

Kaliteler

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
K313	**Bileşim:** Sert, düşük baglayıcı içeriği, alaşımsız WC/Co ince taneli kalite. **Uygulama:** Titanyum, dökme demir, östenitik paslanmaz çelik, demir dışı metaller, metal olmayan malzemeler ve en yüksek ısıl dirençli alaşımları işlemede çok yüksek dayanıklılık ile olağanüstü kenar aşınma direnci. Üstün termal biçim değişimi direnci ve kesme derinliği çentik direncinin birleşimi. Tane yapısı, yüzey gerilimi açısından en küçük çukurları ve çatlakları iyi kontrol altına alır ve bu özellik uzun ve güvenilirlikli talaş kaldırma işlemine katkı sağlar.									
		M								
		K								
		N								
		S								
KC5010	**Bileşim:** Biçim değişimine çok dayanıklı alaşımsız karbür altyapısı üzerine gelişmiş çok katmanlı PVD AlTiN kaplama. **Uygulama:** KC5010™ kalitesi, çoğu iş parçası malzemesinin daha yüksek hızlarda hassas ve genel işlemesi için idealdir. Kararlı koşullarda çoğu çelik, paslanmaz çelik, dökme demir, demir dışı malzemeleri ve ısıl dirençli alaşımları işlemede mükemmeldir. Aynı zamanda, sertleştirilmiş ve kısa talaş veren malzemelerin işlenmesinde iyi performans gösterir.	P								
		M								
		K								
		N								
		S								
		H								
KC5025	**Bileşim:** Sert, son derece ince taneli alaşımsız altyapılı gelişmiş PVD-AlTiN kaplı kalite. **Uygulama:** Çoğu çelik, paslanmaz çelik, ısıl dirençli alaşım, titanyum, demir ve demir dışı malzemelerin genel amaçlı işlemesi için uygun. Hızlar, orta ile düşük arasında değişebilir ve kesintileri ve yüksek ilerleme oranları ile başa çıkar.	P								
		M								
		K								
		N								
		S								



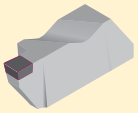
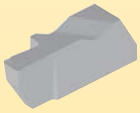
Kaplamalar yüksek hızda işleme yeteneği sağlar ve hafif kaba işlemede hassas son işleme için tasarlanmıştır.

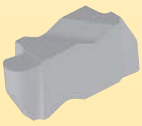
P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

Aşınma direnci ⟷ Tokluk

Kaliteler

Kaplama	Kalite tanımı	05	10	15	20	25	30	35	40	45
KT315	**Bileşim:** TiN/TiCN/TiN kaplamalı sermet, çok katmanlı bir PVD tornalama kalitesi. **Uygulama:** Çogu karbon ve alaşımlı çelik ve paslanmaz çeliklerin yüksek hızda hassas son işlemeden orta işlemeye kadar olan uygulamalar için idealdir. Dökme demir ve dövülgen (düktil) dökme demir uygulamalarında da çok iyi performans sağlar. Uzun ve tutarlı takım ömrü sağlar ve mükemmel iş parçası hassas son işlemeli yüzey kalitesi üretir.	P, K	P, K							
KB1630	**Bileşim:** Kaplamasız yüksek içerikli PcBN kalite. PcBN uçlar, karbür kesici uçta lehimli. **Uygulama:** Sertleştirilmiş çelikleri (>45 HRC) darbeli kesmelerde kaba işlemeden hassas son işlemeye kadar olan uygulamalar için tasarlanmıştır. Ayrıca, gri dökme demir, sert dökme demir (kokil döküm), yüksek krom alaşımlı çelik, ısıl dirençli alaşımlar ve sinterlenmiş toz metallerde uygulanabilir. PcBN uçlu kesici uçlar, Top Notch™ ve vida bağlamalı geometriler de dahil olmak üzere çeşitli kesici uç tiplerinde mevcuttur.	K, S, H	K, S, H	K, S		H	H	H		
KB5625	**Bileşim:** Aşınma direnci eklemek için PVD-TiN/AlTiN kaplamalı bir orta içerikli PcBN. **Uygulama:** Sertleştirilmiş çeliklerin (>45 HRC) kaba işlemeden hassas son işlemeye kadar olan uygulamalar için tasarlanmıştır. Rulman çelikleri, sıcak ve soğuk işlenmiş çelikler, kalıp çelikleri, dış yüzeyi sertleştirilmiş çelikler, karbürlenmiş ve nitrürlenmiş demirler ve bazı sert kaplamalarda kullanılır.	H	H	H	H	H	H			
KD1425	**Bileşim:** Karbür altyapısına lehimli çeşitli tane boyutlarında çoklu biçimli PCD kalite. **Uygulama:** Zorlu uygulamalar için iyi bir kenar dayanıklılığı ile birleştirilmiş son derece yüksek aşınma direnci için tasarlanmıştır. Yüksek silikonlu alüminyum alaşımlar, bi-metalik (AL/GCI) malzemeler, metal tabanlı kompositler (MMC), karbon lif destekli plastikler ve diğer aşındırıcı metalik olmayan malzemeler için ideal tercihtir.	N	N	N	N					

Kesici uç tasarımı	Uygulama	Talaş açısı	Sayfa (lar)
NG 	• Genel amaçlı kanal açma. • Conta kanalı açma. • Segman kanalı açma.	nötr	C154
NG-K 	• Talaş kontrollü geometri. • Genel amaçlı kanal açma. • Conta kanalı açma açma. • Segman kanalı açma. • Hafif tornalama.	10° pozitif	C146
NG-ST 	• Sert tornalama.	nötr	C163
NGC-K 	• Talaş kontrollü pozitif bir dalmada kanal tornalama ve pahlı kenar kırma birleşimi. • DIN 471/472 standart segmanlı kanallar için tasarlanmıştır.	10° pozitif	C152
NGD 	• Derin kanal açma.	nötr	C157
NGD-K 	• Talaş kontrollü geometri. • Derin kanal açma. • Hafif tornalama.	10° pozitif	C149
NGP 	• Genel amaçlı kanal açma. • Conta kanalı açma. • Segman kanalı açma.	5° pozitif	C152
NF 	• Alına kanal açma. • Ilave yan bosluk.	nötr	C161
NF-K 	• Talaş kontrollü alına kanal açma. • Ilave yan bosluk.	10° pozitif	C159
NFD-K 	• Talaş kontrollü alına derin kanal açma. • Ilave yan bosluk.	10° pozitif	C160

Kesici uç tasarımı	Uygulama	Talaş açısı	Sayfa (lar)
NFD-KI 	• Talaş kontrollü iç çap alına derin kanal açma. • İç çap alına kanal açmada delik işleme barasında kullanıma uygun.	10° pozitif	C160
NP-K NPD-K 	• Tornalama. • Geri tornalama pozitif. • Talaş kontrollü profil tornalama.	10° pozitif	C151
NR 	• Tam radyüs kanal açma. • Tornalama ve profil tornalama.	nötr	C158
NR-K 	• Talaş kontrollü geometri. • Tam radyüs kanal açma, tornalama ve profil tornalama.	10° pozitif	C150
NRD 	• Derin kanal açma. • Tam radyüs uç formu.	nötr	C159
NRP 	• Tam radyüs kanal açma. • Hafif tornalama ve profil tornalama	5° pozitif	C153
NU 	• Alttan kesme.	nötr	C161
NV 	• Çoklu V kanal açma.	nötr	C162
NB/NBD 	• Yarı mamul. • Derin kanal açmaya yönelik yarın mamul. • Sadece kaplamasız kalitede mevcut.	–	C162–C163

İnternette Kennametal

kennametal.com

EN SON ÜRÜN BİLGİSİNİ BULUNUZ.

Uygulama şekliniz ister tornalama, frezeleme ister delme ve delik işleme olsun, Kennametal marka yüksek performanslı takımlamaya ihtiyacınız olacaktır. Çok çeşitli uygulamalar için standart ve müşteri odaklı özel çözümler sunuyoruz.

En güncel kampanyalarımız ve kataloglarımızla ilgili bilgiye bakınız.



Kennametal in internetten sipariş verilebilen web sitesinin bütün işlevlerindan faydalanmak üzere Konnect' e kaydolun.

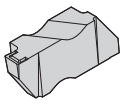
BİZE ULAŞIN

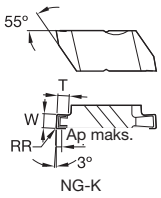
Müşterilerimiz bizim için önemlidir. Size sektördeki en iyi müşteri hizmetini sunmak istiyoruz. Eleştiri veya sorunlarınızı lütfen bize gönderin. Tüm sorulara 24 saat içinde yanıt vermeye çalışıyoruz.

KENDİ BÖLGENİZDE YEREL BİR YETKİLİ KENNAMETAL SATICI VE DAĞITIMCI BAYİSİ BULUNUZ.

Kennametal, küresel olarak dünya standartlarında ürün ve hizmetler sunmaktadır. Satıcı ve dağıtımcı bayilerimiz bizi bilirler ve daha da önemlisi sizi tanırlar. Kennametal' in küresel gücünden sektörünüzde, bölgenizde ve işinizde sizin için nasıl yarar sağlanacağını sektördeki herkesten daha iyi bilirler.

• Top Notch Beyond Drive™ kaliteleri dahildir.





● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Kanal tornalama ve Tornalama • Talaş kontrolü

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																		
NG2M050RK	2	0,50	0,03	0,64	0,09	0,64	●	●	–	●	–	–	●	–	–	–	–	–
NG2031RK	2	0,79	0,03	0,76	0,09	1,27	●	●	●	●	–	–	●	●	●	–	–	–
NG2M080RK	2	0,80	0,03	0,76	0,09	1,27	●	●	●	●	–	–	–	●	–	–	–	–
NG2M100RK	2	1,00	0,03	0,76	0,09	1,28	●	●	●	●	–	–	●	●	–	–	–	–
NG2047RK	2	1,19	0,03	0,76	0,09	1,27	●	●	●	●	–	–	●	●	●	–	–	–
NG2M120RK	2	1,20	0,03	0,76	0,09	1,27	●	●	●	●	–	–	●	●	–	–	–	–
NG2M140RK	2	1,40	0,03	0,76	0,09	1,28	●	●	●	●	–	–	●	●	–	–	–	–
NG2M150RK	2	1,50	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG2062RK	2	1,56	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	●	–	–	–
NG2M170RK	2	1,70	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2M175RK	2	1,75	0,03	1,09	0,19	2,81	–	●	–	●	–	–	–	–	–	–	–	–
NG2M195RK	2	1,95	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2M200RK	2	2,00	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	●	–	–	–
NG2M220RK	2	2,20	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG2M225RK	2	2,25	0,03	1,09	0,19	2,81	●	●	●	●	–	–	–	●	–	–	–	–
NG2094RK	2	2,39	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	●	–	–	–
NG2M250RK	2	2,50	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG2M275RK	2	2,75	0,03	1,09	0,19	2,79	●	●	●	●	–	–	–	●	–	–	–	–
NG2M300RK	2	3,00	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2125RK	2	3,18	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	●	–	–	–
NG2M320RK	2	3,20	0,03	1,09	0,19	2,79	–	–	–	●	–	–	–	–	–	–	–	–
NG2M325RK	2	3,25	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG3M100RK	3	1,00	0,03	0,76	0,20	1,91	–	●	–	●	–	–	–	●	–	–	–	–
NG3047RK	3	1,19	0,03	0,76	0,19	1,91	●	●	●	●	–	–	●	●	–	–	–	–
NG3M120RK	3	1,20	0,03	0,76	0,19	1,91	●	●	●	●	–	–	–	●	–	–	–	–
NG3M150RK	3	1,50	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3062RK	3	1,58	0,03	1,02	0,19	2,39	●	●	●	●	–	–	●	●	●	–	–	–
NG3M175RK	3	1,75	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3072RK	3	1,83	0,03	1,02	0,19	2,39	●	●	●	●	–	–	●	●	–	–	–	–
NG3078RK	3	1,98	0,03	1,02	0,19	2,39	●	●	●	●	–	–	●	●	–	–	–	–
NG3M200RK	3	2,00	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	●	–	–	–
NG3M220RK	3	2,20	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3M225RK	3	2,24	0,03	1,02	0,19	2,39	●	●	●	●	–	–	●	●	–	–	–	–
NG3094RK	3	2,39	0,03	1,02	0,19	3,81	●	●	●	–	–	–	●	●	●	–	–	–
NG3M250RK	3	2,50	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	●	–	–	–	–

(devamı)

(Kanal tornalama ve Tornalama • Talaş kontrolü — devamı)

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
NG3M275RK	3	2,75	0,03	1,02	0,19	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3M300RK	3	3,00	0,03	1,02	0,19	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3125RK	3	3,18	0,03	1,02	0,19	3,81	●	●	●	●	–	–	●	●	●	–	–	–
NG3M320RK	3	3,20	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3M325RK	3	3,25	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3M350RK	3	3,50	0,03	2,92	0,32	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3156RK	3	3,96	0,03	2,92	0,19	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3M400RK	3	4,00	0,03	2,92	0,32	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3M425RK	3	4,25	0,03	2,92	0,32	3,81	●	●	●	●	–	–	–	●	–	–	–	–
NG3M450RK	3	4,50	0,03	2,92	0,32	3,81	–	●	–	●	–	–	–	–	–	–	–	–
NG3189RK	3	4,80	0,03	2,92	0,57	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG4M300RK	4	3,00	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	–	–	–	–	–
NG4125RK	4	3,18	0,03	1,06	0,19	3,81	●	●	●	●	–	–	●	–	–	–	–	–
NG4M350RK	4	3,50	0,03	2,92	0,57	6,35	–	●	–	●	–	–	–	–	–	–	–	–
NG4M400RK	4	4,00	0,03	2,92	0,57	6,35	–	●	●	●	–	–	●	●	–	–	–	–
NG4M450RK	4	4,50	0,03	2,92	0,57	6,35	–	●	–	●	–	–	–	–	–	–	–	–
NG4189RK	4	4,80	0,03	2,92	0,57	6,35	●	●	●	●	–	–	●	●	–	–	–	–
NG4M500RK	4	5,00	0,03	2,92	0,32	6,35	●	●	●	●	–	–	–	–	–	–	–	–
NG4M550RK	4	5,50	0,03	3,81	0,57	6,35	–	–	–	●	–	–	–	–	–	–	–	–
NG4M600RK	4	6,00	0,03	3,81	0,57	6,35	–	●	–	●	–	–	–	–	–	–	–	–
NG4250RK	4	6,35	0,03	3,81	0,57	6,35	–	●	●	●	–	–	●	●	–	–	–	–
Sol yönlü																		
NG2M050LK	2	0,50	0,03	0,64	0,09	0,64	●	●	–	●	–	–	●	–	–	–	–	–
NG2031LK	2	0,79	0,03	0,76	0,09	1,27	●	●	●	●	–	–	●	●	–	–	–	–
NG2M080LK	2	0,80	0,03	0,76	0,09	1,27	●	●	●	●	–	–	–	●	–	–	–	–
NG2M100LK	2	1,00	0,03	0,76	0,08	1,27	●	●	●	●	–	–	●	●	–	–	–	–
NG2047LK	2	1,19	0,03	0,76	0,09	1,27	●	●	●	●	–	–	●	●	–	–	–	–
NG2M120LK	2	1,20	0,03	0,76	0,09	1,27	●	●	●	●	–	–	●	●	–	–	–	–
NG2M140LK	2	1,40	0,03	0,76	0,09	1,27	●	●	●	●	–	–	–	●	–	–	–	–
NG2M150LK	2	1,50	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG2062LK	2	1,58	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2M170LK	2	1,70	0,03	1,09	0,19	2,79	–	●	●	●	–	–	●	●	–	–	–	–
NG2M175LK	2	1,75	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG2M195LK	2	1,95	0,03	1,09	0,19	2,79	–	●	●	●	–	–	●	–	–	–	–	–
NG2M200LK	2	2,00	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2M220LK	2	2,20	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	–	–	–	–	–
NG2M225LK	2	2,25	0,03	1,09	0,19	2,79	●	●	●	●	–	–	–	●	–	–	–	–
NG2094LK	2	2,39	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2M250LK	2	2,50	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	●	–	–	–	–
NG2M275LK	2	2,75	0,03	1,09	0,19	2,79	●	●	–	●	–	–	●	–	–	–	–	–

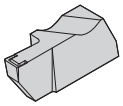
(devamı)

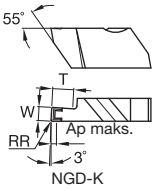
(Kanal tornalama ve Tornalama • Talaş kontrolü — devamı)

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
NG2M300LK	2	3,00	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2125LK	2	3,18	0,03	1,09	0,19	2,79	●	●	●	●	–	–	●	●	–	–	–	–
NG2M325LK	2	3,25	0,03	1,09	0,19	2,79	–	●	–	●	–	–	–	–	–	–	–	–
NG3M100LK	3	1,00	0,03	0,76	0,20	1,91	–	●	–	●	–	–	–	●	–	–	–	–
NG3047LK	3	1,19	0,03	0,76	0,19	1,90	●	●	●	●	–	–	●	●	–	–	–	–
NG3M120LK	3	1,20	0,03	0,76	0,19	1,91	●	●	●	●	–	–	–	●	–	–	–	–
NG3M150LK	3	1,50	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3062LK	3	1,58	0,03	1,02	0,19	2,39	●	●	–	–	–	–	●	●	–	–	–	–
NG3M175LK	3	1,75	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3072LK	3	1,83	0,03	1,02	0,19	2,39	●	●	●	●	–	–	●	●	–	–	–	–
NG3078LK	3	1,98	0,03	1,02	0,19	2,39	●	●	●	●	–	–	●	●	–	–	–	–
NG3M200LK	3	2,00	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3M220LK	3	2,20	0,03	1,02	0,19	2,39	–	●	–	●	–	–	–	●	–	–	–	–
NG3M225LK	3	2,25	0,03	1,02	0,19	2,39	●	●	●	●	–	–	–	–	–	–	–	–
NG3094LK	3	2,39	0,03	1,02	0,19	3,81	●	●	●	●	–	–	●	●	●	–	–	–
NG3M250LK	3	2,50	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3M275LK	3	2,75	0,03	1,02	0,19	3,81	●	●	●	●	–	–	–	●	–	–	–	–
NG3M300LK	3	3,00	0,03	1,02	0,19	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3125LK	3	3,18	0,03	1,02	0,19	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3M320LK	3	3,20	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3M325LK	3	3,25	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3M350LK	3	3,50	0,03	2,92	0,32	3,81	–	●	–	●	–	–	–	●	–	–	–	–
NG3156LK	3	3,96	0,03	2,92	0,19	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG3M400LK	3	4,00	0,03	2,92	0,32	3,81	●	●	●	●	–	–	–	●	–	–	–	–
NG3M425LK	3	4,25	0,03	2,92	0,32	3,81	●	●	●	●	–	–	–	–	–	–	–	–
NG3M450LK	3	4,50	0,03	2,92	0,32	3,81	–	●	–	●	–	–	–	–	–	–	–	–
NG3189LK	3	4,80	0,03	2,92	0,57	3,81	●	●	●	●	–	–	●	●	–	–	–	–
NG4M300LK	4	3,00	0,03	1,02	0,19	3,81	–	●	–	●	–	–	–	–	–	–	–	–
NG4125LK	4	3,18	0,03	1,06	0,19	3,81	●	●	●	●	–	–	–	–	–	–	–	–
NG4M320LK	4	3,20	0,03	1,02	0,19	3,81	–	–	–	●	–	–	–	–	–	–	–	–
NG4M350LK	4	3,50	0,03	2,92	0,57	6,35	–	●	–	●	–	–	–	–	–	–	–	–
NG4M400LK	4	4,00	0,03	2,92	0,57	6,35	●	●	●	●	–	–	–	–	–	–	–	–
NG4M450LK	4	4,50	0,03	2,92	0,57	6,35	–	●	–	●	–	–	–	●	–	–	–	–
NG4189LK	4	4,80	0,03	2,92	0,57	6,35	●	●	●	●	–	–	●	●	–	–	–	–
NG4M500LK	4	5,00	0,03	2,92	0,32	6,35	●	●	●	●	–	–	●	–	–	–	–	–
NG4M550LK	4	5,50	0,03	3,81	0,57	6,35	–	–	–	●	–	–	–	–	–	–	–	–
NG4M600LK	4	6,00	0,03	3,81	0,57	6,35	–	●	–	●	–	–	–	–	–	–	–	–
NG4250LK	4	6,35	0,03	3,81	0,57	6,35	●	●	●	●	–	–	●	●	–	–	–	–





● İlk tercih
○ Alternatif tercih

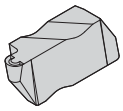
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

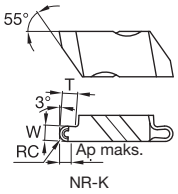
Kanal tornalama ve Tornalama • Derin kanal açma • Talaş kontrolü

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																		
NGD2M150RK	2	1,50	0,03	1,09	0,19	4,06	●	●	–	–	–	–	●	●	–	–	–	–
NGD2M200RK	2	2,00	0,03	1,09	0,19	5,08	●	●	–	–	–	–	●	●	–	–	–	–
NGD2M250RK	2	2,50	0,03	1,09	0,19	5,08	●	●	–	–	–	–	–	●	–	–	–	–
NGD3062RK	3	1,58	0,03	1,02	0,19	3,18	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M200RK	3	2,00	0,03	1,02	0,19	4,06	●	●	–	–	–	–	●	●	–	–	–	–
NGD3094RK	3	2,39	0,03	1,02	0,19	6,35	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M250RK	3	2,50	0,03	1,02	0,19	6,35	–	●	–	–	–	–	●	●	–	–	–	–
NGD3M300RK	3	3,00	0,03	1,02	0,19	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD3125RK	3	3,18	0,03	1,02	0,19	6,35	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M400RK	3	4,00	0,03	2,92	0,32	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD3189RK	3	4,80	0,03	2,92	0,58	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD4125RK	4	3,18	0,03	1,02	0,19	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD4189RK	4	4,80	0,03	2,92	0,57	9,53	●	●	–	–	–	–	●	●	–	–	–	–
NGD4M550RK	4	5,50	0,03	3,81	0,57	12,70	–	●	–	–	–	–	–	–	–	–	–	–
NGD4250RK	4	6,35	0,03	3,81	0,57	12,70	●	●	–	–	–	–	●	●	–	–	–	–
Sol yönlü																		
NGD2M150LK	2	1,50	0,03	1,09	0,19	4,06	●	●	–	–	–	–	–	●	–	–	–	–
NGD2M200LK	2	2,00	0,03	1,09	0,19	5,08	●	●	–	–	–	–	●	●	–	–	–	–
NGD2M250LK	2	2,50	0,03	1,09	0,19	5,08	●	●	–	–	–	–	●	●	–	–	–	–
NGD3062LK	3	1,57	0,03	1,02	0,19	3,18	●	●	–	–	–	–	●	●	–	–	–	–
NGD3M200LK	3	2,00	0,03	1,02	0,19	4,06	–	●	–	–	–	–	–	●	–	–	–	–
NGD3094LK	3	2,39	0,03	1,02	0,19	6,34	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M250LK	3	2,50	0,03	1,02	0,19	6,35	–	●	–	–	–	–	–	●	–	–	–	–
NGD3M300LK	3	3,00	0,03	1,02	0,19	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD3125LK	3	3,18	0,03	1,02	0,19	6,35	●	●	–	–	–	●	●	●	–	–	–	–
NGD3M350LK	3	3,50	0,03	2,92	0,32	6,35	–	●	–	–	–	–	–	●	–	–	–	–
NGD3M400LK	3	4,00	0,03	2,92	0,32	6,35	●	●	–	–	–	–	–	●	–	–	–	–
NGD3189LK	3	4,80	0,03	2,92	0,57	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD4125LK	4	3,18	0,03	1,02	0,19	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NGD4M400LK	4	4,00	0,03	2,92	0,57	9,53	–	●	–	–	–	–	–	–	–	–	–	–
NGD4189LK	4	4,80	0,03	2,92	0,57	9,53	●	●	–	–	–	–	●	●	–	–	–	–
NGD4M500LK	4	5,00	0,03	2,92	0,57	12,70	–	●	–	–	–	–	–	–	–	–	–	–
NGD4250LK	4	6,35	0,03	3,80	0,57	12,70	●	●	–	–	–	–	●	–	–	–	–	–

NOT: Kesici uçların tek kesme kenarı vardır. Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.
Aşağıdaki kesici uçlar iki ağızlıdır: NGD3062RK, NGD4125RK, NGD3062LK, ve NGD4125LK.

- Talaş kontrollü, tam radyüslü kesici uçlar.





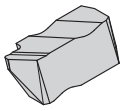
● İlk tercih
○ Alternatif tercih

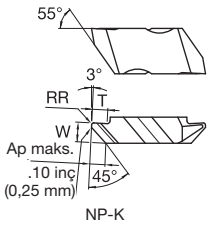
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Kanal tornalama ve Tornalama • Tam radyüs • Talaş kontrolü

Katalog numarası	Kesici uç ölçüsü	W	Ap maks.	RC	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																	
NR3031RK	3	1,57	1,97	0,79	2,39	●	●	–	–	–	–	●	●	–	–	–	–
NR3047RK	3	2,39	1,91	1,19	3,81	●	●	–	–	–	–	●	●	–	–	–	–
NR3062RK	3	3,18	2,92	1,59	3,81	●	●	–	–	–	–	●	●	–	–	–	–
NR3078RK	3	3,97	2,54	1,98	3,81	●	●	–	–	–	–	●	–	–	–	–	–
NR4062RK	4	3,18	2,92	1,59	3,81	●	●	–	–	–	–	●	–	–	–	–	–
NR4094RK	4	4,79	3,81	2,39	6,35	●	●	–	–	–	–	●	–	–	–	–	–
NR4125RK	4	6,35	3,81	3,18	6,35	●	●	–	–	–	–	●	●	–	–	–	–
Sol yönlü																	
NR3031LK	3	1,58	1,98	0,79	2,39	●	●	–	–	–	–	●	●	–	–	–	–
NR3047LK	3	2,39	1,91	1,19	3,81	●	●	–	–	–	–	●	●	–	–	–	–
NR3062LK	3	3,18	2,92	1,59	3,81	●	●	–	–	–	–	●	●	–	–	–	–
NR3078LK	3	3,96	2,54	1,98	3,81	–	●	–	–	–	–	●	●	–	–	–	–
NR4062LK	4	3,18	2,92	1,59	3,81	●	●	–	–	–	–	●	–	–	–	–	–
NR4094LK	4	4,79	3,81	2,39	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NR4125LK	4	6,36	3,81	3,18	6,35	●	●	–	–	–	–	●	–	–	–	–	–

NOT: Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.





NP-K

● İlk tercih
○ Alternatif tercih

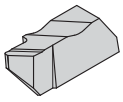
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

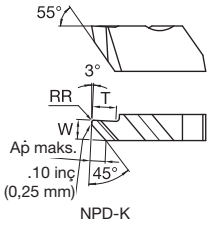
Kanal tornalama ve Profil tornalama • Talaş kontrolü

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																		
NP2002RK	2	3,82	0,03	—	0,25	2,81	●	●	–	–	–	–	●	●	–	–	–	–
NP2012RK	2	3,82	0,03	—	0,25	2,81	–	●	–	–	–	–	–	–	–	–	–	–
NP3002RK	3	4,95	0,03	—	0,25	5,08	●	●	–	–	–	–	●	–	–	–	–	–
NP3012RK	3	4,95	0,03	—	0,25	5,08	–	●	–	–	–	–	–	●	–	–	–	–

NOT: Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.
Genişlikte (W) tolerans ± 0.13mm (± .005 inç).

- Derin profil tornalama için pozitif kesici uçlar.



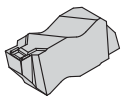


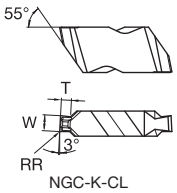
NPD-K

Kanal tornalamam ve Profil tornalama • Derin kanal tornalama • Talaş kontrolü

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																		
NPD2002RK	2	3,68	0,13	—	0,09	5,08	–	●	–	–	–	–	●	–	–	–	–	–
NPD3002RK	3	4,83	0,13	—	0,09	6,35	–	●	–	–	–	–	–	–	–	–	–	–
NPD3012RK	3	4,95	0,03	—	0,25	6,35	●	●	–	–	–	–	●	–	–	–	–	–

NOT: Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.
Genişlikte (W) tolerans ± 0.13mm (± .005 inç).





NGC-K-CL

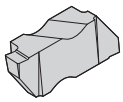
● İlk tercih
○ Alternatif tercih

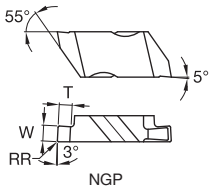
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Kanal açma ve Pah kırma • Talaş kontrolü

Katalog numarası	Yuva ölçüsü	Segman ölçüsü	W	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																	
NGC2C130R055K	2	1,30	1,39	0,08	0,6	–	●	–	–	–	–	–	–	–	–	–	–
NGC2C215R150K	2	2,15	2,24	0,08	1,5	–	●	–	–	–	–	–	–	–	–	–	–
Sol yönlü																	
NGC2C130L055K	2	1,30	1,39	0,08	0,6	–	●	–	–	–	–	–	–	–	–	–	–
NGC2C185L125K	2	1,85	1,94	0,08	1,3	–	●	–	–	–	–	–	–	–	–	–	–
NGC2C215L150K	2	2,15	2,24	0,08	1,5	–	●	–	–	–	–	–	–	–	–	–	–

NOT: DIN 471/472 standardına göre segman kanalı açma için kanal açma ve pah kırma uçları.
Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.





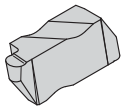
NGP

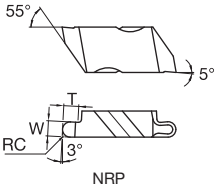
Kanal tornalama ve Tornalama • Pozitif

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																		
NGP2031R	2	0,79	0,03	—	0,09	1,27	●	–	–	–	–	–	●	–	–	–	–	–
NGP2062R	2	1,58	0,03	—	0,19	2,79	●	–	–	–	–	–	●	–	–	–	–	–
NGP2125R	2	3,18	0,03	—	0,19	2,79	●	–	–	–	–	–	–	–	–	–	–	–
NGP3088R	3	2,24	0,03	—	0,19	2,39	●	–	–	–	–	–	–	–	–	–	–	●
NGP3125R	3	3,18	0,03	—	0,19	3,81	●	–	–	–	–	–	●	–	–	–	–	●
NGP3156R	3	3,96	0,03	—	0,19	3,81	●	–	–	–	–	–	–	–	–	–	–	–
NGP4189R	4	4,80	0,03	—	0,57	6,35	●	–	–	–	–	–	–	–	–	–	–	–
NGP4250R	4	6,35	0,03	—	0,57	6,35	–	–	–	–	–	–	●	–	–	–	–	–
Sol yönlü																		
NGP2031L	2	0,79	0,03	—	0,09	1,27	●	–	–	–	–	–	–	–	–	–	–	–
NGP2062L	2	1,57	0,03	—	0,19	2,79	●	–	–	–	–	–	–	–	–	–	–	–
NGP2125L	2	3,18	0,03	—	0,19	2,79	●	–	–	–	–	–	–	–	–	–	–	–
NGP3088L	3	2,24	0,03	—	0,19	2,39	●	–	–	–	–	–	–	–	–	–	–	–
NGP3125L	3	3,18	0,03	—	0,19	3,81	–	–	–	–	–	–	●	–	–	–	–	–
NGP4250L	4	6,35	0,03	—	0,57	6,35	●	–	–	–	–	–	–	–	–	–	–	–

NOT: Tüm KD ve KB kaliteleri tek kenar lehimli kesici uçlardır.
Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.

• Tam radyüslü, pozitif kesme sırta sahip kesici uçlar.





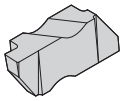
● İlk tercih
○ Alternatif tercih

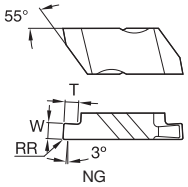
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Kanal tornalama ve Tornalama • Tam radyüs • Pozitif

Katalog numarası	Kesici uç ölçüsü	W	Ap maks.	RC	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																	
NRP3031R	3	1,58	—	0,79	2,39	●	–	–	–	–	–	●	–	–	–	–	–
NRP3047R	3	2,39	—	1,19	3,81	●	–	–	–	–	●	●	–	–	–	–	–
NRP3062R	3	3,18	—	1,59	3,81	●	–	–	–	–	–	●	–	–	–	–	–
NRP3094R	3	4,78	—	2,39	3,81	●	–	–	–	–	–	●	–	–	–	–	–
Sol yönlü																	
NRP3031L	3	1,58	—	0,79	2,39	●	–	–	–	–	–	●	–	–	–	–	–
NRP3047L	3	2,39	—	1,19	3,81	●	–	–	–	–	–	●	–	–	–	–	–
NRP3062L	3	3,18	—	1,59	3,81	–	–	–	–	–	–	●	–	–	–	–	–
NRP3094L	3	4,78	—	2,39	3,81	●	–	–	–	–	–	●	–	–	–	–	–

NOT: Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.





● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Kanal tornalama ve Tornalama • Düz başlı

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T
Sağ yönlü						
NG2031R	2	0,79	0,03	–	0,09	1,27
NG2041R	2	1,04	0,03	–	0,09	1,27
NG2047R	2	1,19	0,03	–	0,09	1,27
NG2058R	2	1,47	0,03	–	0,19	1,27
NG2062R	2	1,58	0,03	–	0,19	2,79
NG2094R	2	2,39	0,03	–	0,19	2,79
NG2125R	2	3,18	0,03	–	0,19	2,79
NG3047R	3	1,19	0,03	–	0,19	1,91
NG3062R	3	1,58	0,03	–	0,19	2,39
NG3072R	3	1,83	0,03	–	0,19	2,39
NG3078R	3	1,98	0,03	–	0,19	2,39
NG3088R	3	2,24	0,03	–	0,19	2,39
NG3094R	3	2,39	0,03	–	0,19	3,81
NG3097R	3	2,46	0,03	–	0,32	3,81
NG3105R	3	2,67	0,03	–	0,19	3,81
NG3110R	3	2,79	0,03	–	0,32	3,81
NG3122R	3	3,10	0,03	–	0,19	3,81
NG3125R	3	3,18	0,03	–	0,19	3,81
NG3142R	3	3,61	0,03	–	0,32	3,81
NG3156R	3	3,96	0,03	–	0,19	3,81
NG3178R	3	4,52	0,03	–	0,19	3,81
NG3185R	3	4,70	0,03	–	0,57	3,81
NG3189R	3	4,80	0,03	–	0,57	3,81
NG4125R	4	3,18	0,03	–	0,19	3,81
NG4189R	4	4,80	0,03	–	0,57	6,35
NG4213R	4	5,41	0,03	–	0,19	6,35
NG4250R	4	6,35	0,03	–	0,57	6,35
NG5312R	5	7,93	0,03	–	0,83	9,52
NG6375R	6	9,53	0,03	–	0,83	6,35

(devamı)

(Kanal tornalama ve Tornalama • Düz başlı — devamı)

● İlk tercih
○ Alternatif tercih

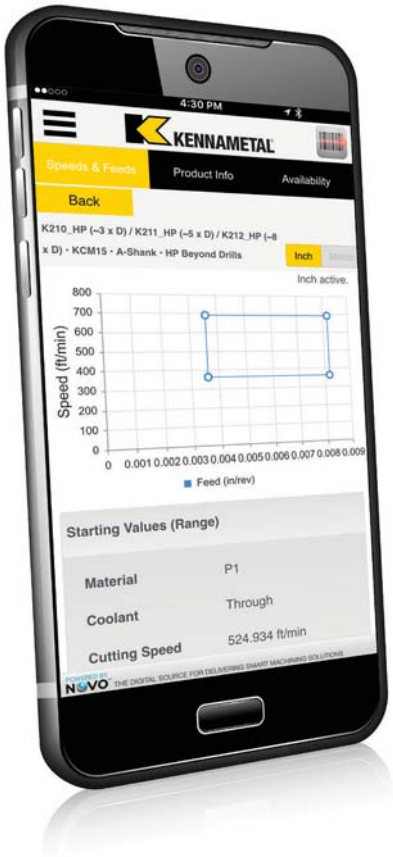
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sol yönlü																		
NG1031L	1	0,79	0,08	—	0,19	1,27	–	●	–	–	–	–	–	–	–	–	–	–
NG1047L	1	1,19	0,08	—	0,19	1,91	–	●	–	–	–	–	–	●	–	–	–	–
NG1062L	1	1,58	0,08	—	0,19	1,91	–	●	–	–	–	–	–	●	–	–	–	–
NG1094L	1	2,39	0,08	—	0,19	1,91	–	●	–	–	–	–	–	●	–	–	–	–
NG2031L	2	0,79	0,03	—	0,09	1,27	●	●	–	–	●	●	●	–	–	–	–	–
NG2041L	2	1,04	0,03	—	0,09	1,27	–	●	–	–	●	–	●	●	–	–	–	–
NG2047L	2	1,19	0,03	—	0,09	1,27	●	●	–	–	–	–	●	–	–	–	–	–
NG2058L	2	1,47	0,03	—	0,19	1,27	–	●	–	–	–	–	–	–	–	–	–	–
NG2062L	2	1,58	0,03	—	0,19	2,79	●	●	–	–	●	●	●	●	–	–	–	–
NG2094L	2	2,39	0,03	—	0,19	2,79	●	●	–	–	●	●	●	–	–	–	–	–
NG2125L	2	3,18	0,03	—	0,19	2,79	●	●	–	–	●	–	●	–	–	–	–	–
NG3047L	3	1,19	0,03	—	0,19	1,91	●	●	–	–	●	●	●	–	–	–	–	–
NG3062L	3	1,57	0,03	—	0,19	2,38	●	●	–	–	●	●	●	●	–	–	–	–
NG3072L	3	1,83	0,03	—	0,19	2,39	●	–	–	–	–	–	●	–	–	–	–	–
NG3078L	3	1,98	0,03	—	0,19	2,39	●	–	–	–	–	–	–	–	–	–	–	–
NG3088L	3	2,24	0,03	—	0,19	2,39	●	●	–	–	–	–	●	–	–	–	–	–
NG3094L	3	2,39	0,03	—	0,19	3,81	●	●	–	–	●	●	●	●	–	–	–	–
NG3097L	3	2,46	0,03	—	0,32	3,81	●	●	–	–	–	–	–	–	–	–	–	–
NG3105L	3	2,67	0,03	—	0,19	3,81	●	●	–	–	–	–	●	–	–	–	–	–
NG3110L	3	2,79	0,03	—	0,32	3,81	–	●	–	–	–	–	–	●	–	–	–	–
NG3122L	3	3,10	0,03	—	0,19	3,81	–	●	–	–	–	–	–	–	–	–	–	–
NG3125L	3	3,18	0,03	—	0,19	3,81	●	●	–	–	●	●	●	●	–	–	–	–
NG3142L	3	3,61	0,03	—	0,32	3,81	●	●	–	–	–	–	–	–	–	–	–	–
NG3156L	3	3,96	0,03	—	0,19	3,81	–	●	–	–	–	–	–	●	–	–	–	–
NG3178L	3	4,52	—	—	0,19	3,81	–	●	–	–	–	–	–	–	–	–	–	–
NG3185L	3	4,70	0,03	—	0,57	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NG3189L	3	4,80	0,03	—	0,57	3,81	●	●	–	–	●	–	●	●	–	–	–	–
NG4125L	4	3,18	0,03	—	0,19	3,81	●	●	–	–	–	●	–	–	–	–	–	–
NG4189L	4	4,80	0,03	—	0,57	6,35	●	●	–	–	●	–	●	–	–	–	–	–
NG4189LEST	4	4,80	0,03	—	0,57	6,35	–	–	–	–	–	–	–	–	–	●	–	–
NG4250L	4	6,35	0,03	—	0,57	6,35	●	●	–	–	●	–	●	●	–	–	–	–

NOT: Tüm KD ve KB kaliteleri tek kenar lehimli kesici uçlardır.
Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.

Mobil uygulama

Kennametal mobil uygulaması, iPhone® ve Android™ cihazlardan ürün bilgisine, hesaplayıcılara ve daha fazlasına erişimi kolaylaştırır.



ÖZELLİKLER

Herhangi bir Kennametal takım paketi barkodu taranarak veya bir ürün katalog numarası aranarak eksiksiz ürün bilgisine erişebilinir.

Ürün bilgileri arasında takım resmi, ölçüler, kaliteler ve üründe öne çıkan unsurlar vardır.

Dünyanın farklı yerlerindeki ürün temin edilebilirliğini görebilirsiniz.

Tüm metal işleme ürünleri için inç ve metrik ölçülerde hız ile ilerleme bilgisini alabilirsiniz.

Çok sık karşılaşılan işleme ile ilgili sorular için yararlı çözümler içeren teknik önemli bilgiye erişilebilir.

Müşteri destek birimi ile uygulama üzerinden doğrudan iletişim kurulabilir.

İŞLEME HESAPLAYICILAR

Frezeleme ve delik delme uygulamaları ile ilgili bilgi görüntülenebilir.

İnç ve metrik değerler hesaplanır.

SİPARİŞ VERME

Kişisel bağlantı kimlik bilgisi kullanılarak oturum açıp satın alma işlemine başlanabilir.

NEREDE BULUNUR

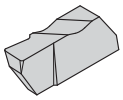
Ücretsiz uygulama iTunes® veya Google Play™ mağazalarından hemen indirilebilir.

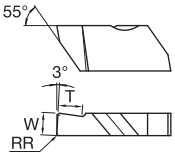
ANDROID APP ON Google play

Available on the App Store

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	



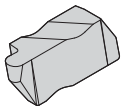


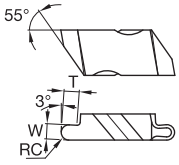
NGD

Kanal tornalama ve Tornalama • Derin kanal açma • Düz başlı

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																		
NGD3189R	3	4,80	0,03	—	0,57	6,35	●	–	–	–	–	●	–	–	–	–	–	–
NGD4250R	4	6,35	0,03	—	0,57	12,70	●	–	–	–	–	●	–	–	–	–	–	–
Sol yönlü																		
NGD3189L	3	4,80	0,03	—	0,57	6,35	●	–	–	–	–	●	●	–	–	–	–	–
NGD4250L	4	6,35	0,03	—	0,57	12,70	●	–	–	–	–	●	●	–	–	–	–	–

NOT: Kesici uçların tek kesme kenarı vardır.
Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.





NR

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

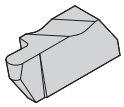
Kanal tornalama ve Tornalama • Tam radyüs • Düz başlı

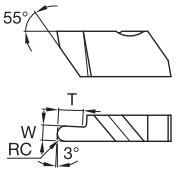
Katalog numarası	Kesici uç ölçüsü	W	Ap maks.	RC	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																	
NR2M050R	2	1,00	—	0,50	1,27	●	●	–	–	–	–	●	●	–	–	–	–
NR2M075R	2	1,50	—	0,75	2,79	●	–	–	–	–	–	●	–	–	–	–	–
NR2031R	2	1,58	—	0,79	2,79	●	●	–	–	–	–	●	●	–	–	–	–
NR2M100R	2	2,00	—	1,00	2,79	●	–	–	–	–	–	●	●	–	–	–	–
NR2047R	2	2,39	—	1,19	2,79	–	●	–	–	–	–	–	–	–	–	–	–
NR2M125R	2	2,50	—	1,25	2,79	–	–	–	–	–	–	–	●	–	–	–	–
NR2M150R	2	3,00	—	1,50	2,79	–	–	–	–	–	–	–	●	–	–	–	–
NR2062R	2	3,18	—	1,59	2,79	●	●	–	–	–	–	●	–	–	–	–	–
NR2M175R	2	3,50	—	1,75	2,79	–	–	–	–	–	–	–	●	–	–	–	–
NR3031R	3	1,58	—	0,79	2,39	●	●	–	–	–	●	●	●	–	–	–	–
NR3M100R	3	2,00	—	1,00	2,39	–	–	–	–	–	–	–	●	–	–	–	–
NR3047R	3	2,39	—	1,19	3,81	●	●	–	–	–	●	●	–	–	–	–	–
NR3M150R	3	3,00	—	1,50	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NR3062R	3	3,18	—	1,59	3,81	●	●	–	–	–	●	●	●	–	–	–	–
NR3078R	3	3,96	—	1,98	3,81	–	–	–	–	–	●	–	–	–	–	–	–
NR3M200R	3	4,00	—	2,00	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NR3094R	3	4,78	—	2,39	3,81	●	●	–	–	–	–	●	●	–	–	–	–
NR4094R	4	4,78	—	2,39	6,35	–	–	–	–	–	●	–	–	–	–	–	–
NR4125R	4	6,35	—	3,18	6,35	●	●	–	–	–	–	●	–	–	–	–	–
Sol yönlü																	
NR2M050L	2	1,00	—	0,50	1,27	●	●	–	–	–	–	●	–	–	–	–	–
NR2031L	2	1,58	—	0,79	2,79	●	●	–	–	–	–	●	●	–	–	–	–
NR2M100L	2	2,00	—	1,00	2,79	–	–	–	–	–	–	–	●	–	–	–	–
NR2047L	2	2,39	—	1,19	2,79	–	●	–	–	–	–	–	–	–	–	–	–
NR2M150L	2	3,00	—	1,50	2,79	–	–	–	–	–	–	–	●	–	–	–	–
NR2062L	2	3,18	—	1,59	2,79	●	●	–	–	–	–	●	–	–	–	–	–
NR3031L	3	1,58	—	0,79	2,39	●	●	–	–	–	●	●	●	–	–	–	–
NR3M100L	3	2,00	—	1,00	2,39	–	–	–	–	–	–	–	●	–	–	–	–
NR3047L	3	2,39	—	1,19	3,81	●	●	–	–	–	●	●	–	–	–	–	–
NR3M150L	3	3,00	—	1,50	3,81	●	–	–	–	–	–	●	●	–	–	–	–
NR3062L	3	3,18	—	1,59	3,81	●	●	–	–	–	●	●	●	–	–	–	–
NR3M200L	3	4,00	—	2,00	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NR3094L	3	4,78	—	2,39	3,81	–	●	–	–	–	●	●	●	–	–	–	–
NR4125L	4	6,35	—	3,18	6,35	–	●	–	–	–	–	●	–	–	–	–	–

NOT: Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.

P	●	●	●	●	○		○	○	●				
M	●	●				○	●	○					
K	○	○	○	○	●	○	○	○	○	○			
N	●	○				○	●	○					●
S	●	●				●	○	○		○			
H	○						○			●	●		

● İlk tercih
○ Alternatif tercih



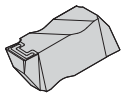


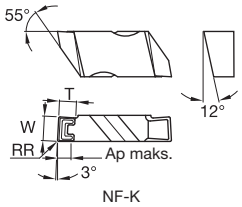
NRD

Kanal tornalama ve Tornalama • Derin kanal açma • Tam radyüs • Düz başlı

Katalog numarası	Kesici uç ölçüsü	W	Ap maks.	RC	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																	
NRD3031R	3	1,58	–	0,79	3,18	●	●	–	–	–	–	●	●	–	–	–	–
NRD3062R	3	3,17	–	1,59	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NRD4062R	4	3,18	–	1,59	6,35	●	●	–	–	–	–	●	–	–	–	–	–
NRD4094R	4	4,78	–	2,39	12,70	●	–	–	–	–	–	●	–	–	–	–	–
NRD4125R	4	6,35	–	3,18	12,70	–	●	–	–	–	–	●	–	–	–	–	–
Sol yönlü																	
NRD3031L	3	1,58	–	0,79	3,18	●	●	–	–	–	–	●	●	–	–	–	–
NRD3062L	3	3,17	–	1,59	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NRD4062L	4	3,18	–	1,59	6,35	●	●	–	–	–	–	●	●	–	–	–	–
NRD4094L	4	4,78	–	2,39	12,70	●	●	–	–	–	–	●	–	–	–	–	–
NRD4125L	4	6,35	–	3,18	12,70	●	●	–	–	–	–	●	●	–	–	–	–

NOT: Kesici uçların tek kesme kenarı vardır.
Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.



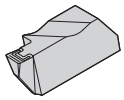


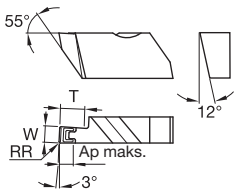
NF-K

Alına kanal açma • Talaş kontrolü

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																		
NF3M200RK	3	2,00	0,03	1,02	0,19	1,78	–	–	–	–	–	–	–	●	–	–	–	–
NF3M300RK	3	3,00	0,03	1,02	0,19	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NF3125RK	3	3,18	0,03	1,02	0,19	3,81	–	●	–	–	–	–	–	●	–	–	–	–
NF3156RK	3	3,96	0,03	2,92	0,19	3,81	–	●	–	–	–	–	–	–	–	–	–	–
Sol yönlü																		
NF3M200LK	3	2,00	0,03	1,02	0,19	1,78	–	–	–	–	–	–	–	●	–	–	–	–
NF3M300LK	3	3,00	0,03	1,02	0,19	3,81	–	–	–	–	–	–	–	●	–	–	–	–
NF3125LK	3	3,18	0,03	1,02	0,19	3,81	–	●	–	–	–	–	–	●	–	–	–	–
NF3156LK	3	3,96	0,03	2,92	0,19	3,81	–	●	–	–	–	–	–	–	–	–	–	–

NOT: Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.





NFD-K

● İlk tercih
○ Alternatif tercih

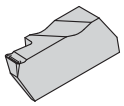
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

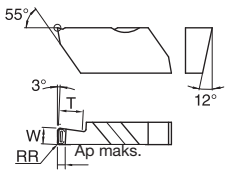
Alına kanal açma • Derin kanal açma • Talaş kontrolü

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																		
NFD3M300RK	3	3,00	0,03	1,02	0,19	6,35	–	–	–	–	–	–	–	●	–	–	–	–
NFD3125RK	3	3,18	0,03	1,02	0,19	6,35	–	●	–	–	–	–	–	●	–	–	–	–
NFD4189RK	4	4,80	0,03	2,92	0,57	9,53	–	●	–	–	–	–	–	–	–	–	–	–
NFD4250RK	4	6,35	0,03	3,81	0,57	12,70	–	●	–	–	–	–	–	–	–	–	–	–
Sol yönlü																		
NFD3M300LK	3	3,00	0,03	1,02	0,19	6,35	–	–	–	–	–	–	–	●	–	–	–	–
NFD3125LK	3	3,18	0,03	1,02	0,19	6,35	–	●	–	–	–	–	–	●	–	–	–	–
NFD4189LK	4	4,80	0,03	2,92	0,57	9,53	–	●	–	–	–	–	–	●	–	–	–	–
NFD4250LK	4	6,35	0,03	3,81	0,57	12,70	–	●	–	–	–	–	–	–	–	–	–	–

NOT: Kesici uçların tek kesme kenarı vardır.
Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.

- Alına kanal açma ve derin kanal açma uçları.



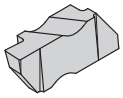


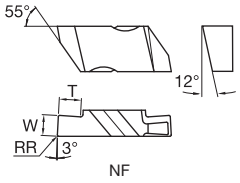
NFD-KI

Alına kanal açma • İç çap derin kanal açma • Talaş kontrolü

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																		
NFD3125RKI	3	3,18	0,03	1,02	0,19	6,35	–	●	–	–	–	–	–	●	–	–	–	–
NFD3189RKI	3	4,80	0,03	2,92	0,57	6,35	–	●	–	–	–	–	–	–	–	–	–	–
Sol yönlü																		
NFD3125LKI	3	3,18	0,03	1,02	0,19	6,35	–	●	–	–	–	–	–	–	–	–	–	–
NFD3189LKI	3	4,80	0,03	2,92	0,57	6,35	–	●	–	–	–	–	–	–	–	–	–	–

NOT: Kesici uçların tek kesme kenarı vardır.
NFD-KI Kesici uçlar sadece NS tip delik işleme baraları ile uyumludur.
Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.





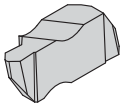
● İlk tercih
○ Alternatif tercih

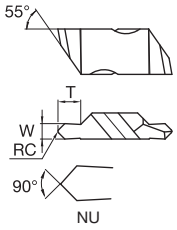
		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	

Alına kanal açma • Düz başlı

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																		
NF3125R	3	3,18	0,03	—	0,19	3,81	–	–	–	–	–	●	–	–	–	–	–	–
NF3188R	3	4,78	0,03	—	0,57	3,81	–	●	–	–	–	–	–	–	–	–	–	–
Sol yönlü																		
NF3125L	3	3,18	0,03	—	0,19	3,81	–	–	–	–	–	●	–	–	–	–	–	–
NF3188L	3	4,78	0,03	—	0,57	3,81	–	●	–	–	–	–	–	–	–	–	–	–

NOT: Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.





Kanal tornalama ve Tornalama • Düz başlı • 90°

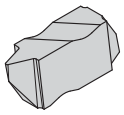
Katalog numarası	Kesici uç ölçüsü	W	Ap maks.	RC	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																	
NU3094R	3	2,39	—	0,51	3,18	–	–	–	–	–	–	–	●	–	–	–	–
NU3125R	3	3,18	—	1,19	4,78	–	●	–	–	–	–	–	–	–	–	–	–
Sol yönlü																	
NU3094L	3	2,39	—	0,51	3,18	–	●	–	–	–	–	–	●	–	–	–	–
NU3125L	3	3,18	—	1,19	4,78	–	–	–	–	–	–	–	●	–	–	–	–
NU3156L	3	3,96	—	1,19	4,78	–	–	–	–	–	–	–	●	–	–	–	–

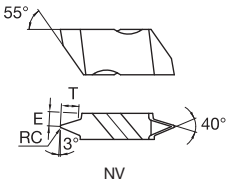
NOT: Genişlikte (W) tolerans ± 0.13mm (± .005 inç).
Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.
NR tip kesici uçlarla uyumlu NU kesici uçlar.

• Çoklu V kanallı (poli Vee) kanal açma uçları.

● İlk tercih
○ Alternatif tercih

		KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
P		●	●	●	●	○		○	○	●			
M		●	●				○	●	○				
K		○	○	○	○	●	○	○	○	○	○		
N		●	○				○	●	○				●
S		●	●				●	○	○		○		
H		○						○			●	●	



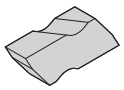


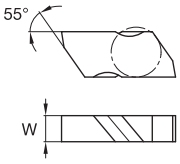
NV

Kanal tornalama ve Tornalama • Düz başlı • Çoklu V kanallı (poli Vee)

Katalog numarası	Kesici uç ölçüsü	E	RC	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																
NV3RJ	3	3,18	0,32	2,21	–	●	–	–	–	–	–	–	–	–	–	–
NV4RL	4	3,00	0,32	5,11	–	●	–	–	–	–	–	–	–	–	–	–
Sol yönlü																
NV4LL	4	3,00	0,32	5,11	–	●	–	–	–	–	–	–	–	–	–	–

NOT: Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.





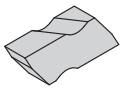
NB

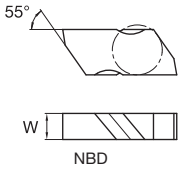
Kanal tornalama ve Tornalama • Yarı mamul

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																		
NB2R	2	3,84	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
NB3R	3	4,95	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
NB4R	4	6,48	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
Sol yönlü																		
NB2L	2	3,84	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
NB3L	3	4,95	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
NB4L	4	6,48	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

NOT: NB ve NBD yarı mamuller genişlik ölçüsü ve uç şekli değişikliği yapılabilmesi için tasarlanmıştır.
Genişlik ölçüsü mümkün olan maksimum genişliği belirtmek amacıyla verilmiştir. Sadece kaplamasız kalitelerde mevcut.
Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.

● İlk tercih
○ Alternatif tercih

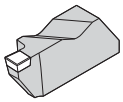


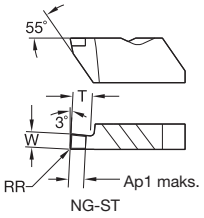


Kanal tornalama ve Tornalama • Derin kanal açma • Yarı mamul

Katalog numarası	Kesici uç ölçüsü	W	W Tolerans ±	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																		
NBD2R	2	3,81	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
NBD3R	3	4,95	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
Sol yönlü																		
NBD3L	3	4,95	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–

NOT: NB ve NBD yarı mamuller genişlik ölçüsü ve uç şekli modifikasyonu yapılabilmesi için tasarlanmıştır.
Genişlik ölçüsü mümkün olan maksimum genişliği belirtmek amacıyla verilmiştir. Sadece kaplamasız kalitelerde mevcut.
Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.





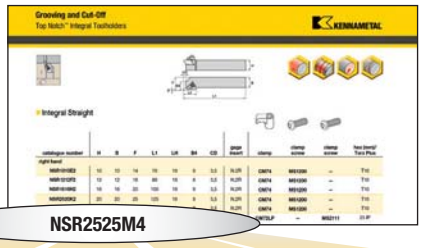
Kanal tornalama ve Tornalama • Düz başlı • PcBN

Katalog numarası	Kesici uç ölçüsü	W	Ap maks.	RR	T	KCU10	KCU25	KCP10B	KCP25B	KCK20B	K313	KC5010	KC5025	KT315	KB1630	KB5625	KD1425
Sağ yönlü																	
NG3062REST	3	1,58	–	0,19	2,39	–	–	–	–	–	–	–	–	–	●	–	●
NG3M200RS02020ST	3	2,00	2,00	0,20	2,39	–	–	–	–	–	–	–	–	–	●	●	–
NG3094REST	3	2,39	–	0,19	3,81	–	–	–	–	–	–	–	–	–	●	–	●
NG3M300RS02020ST	3	3,00	3,00	0,20	3,81	–	–	–	–	–	–	–	–	–	●	●	–
NG3125REST	3	3,18	–	0,19	3,81	–	–	–	–	–	–	–	–	–	●	–	●
NG3125RS0820ST	3	3,18	3,00	0,25	3,81	–	–	–	–	–	–	–	–	–	●	●	–
NG3M400RS02020ST	3	4,00	3,00	0,20	3,81	–	–	–	–	–	–	–	–	–	–	●	–
NG3189REST	3	4,80	–	0,57	3,81	–	–	–	–	–	–	–	–	–	–	–	●
NG4189REST	4	4,80	–	0,57	6,35	–	–	–	–	–	–	–	–	–	●	–	–
Sol yönlü																	
NG3062LEST	3	1,58	–	0,19	2,39	–	–	–	–	–	–	–	–	–	●	–	●
NG3M200LS02020ST	3	2,00	2,00	0,20	2,39	–	–	–	–	–	–	–	–	–	–	●	–
NG3094LEST	3	2,39	–	0,19	3,81	–	–	–	–	–	–	–	–	–	●	–	●
NG3125LEST	3	3,18	–	0,19	3,81	–	–	–	–	–	–	–	–	–	●	–	–
NG3125LS0820ST	3	3,18	3,00	0,25	3,81	–	–	–	–	–	–	–	–	–	●	–	–
NG4189LEST	4	4,80	–	0,57	6,35	–	–	–	–	–	–	–	–	–	●	–	–

NOT: Tüm KB Kaliteleri tek kenarlı lehimli kesici uçlardır.
Sağ yönlü kesici uç gösterilmektedir; sol yönlü kesici uç ayna yansıtmalı ters görüntülüdür.

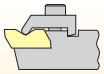
Katalog numaraları nasıl kullanılır ?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.

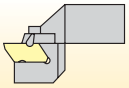


NSR2525M4

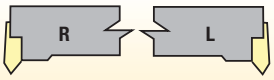
N	S	R		2525	M	4	
Kesici uç bağlama yöntemi	Kesici uç bağlama konumu	Takım yönü	Üstü açık kafa	Şaft ölçüsü	Takım boyu	Kesici uç ölçüsü	Şarta bağlı yüzey ve uzunluk



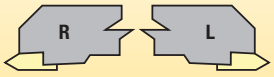
N = Top Notch*



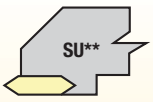
DH = Üstü açık kafa



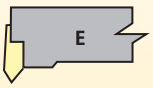
Uçtan monte



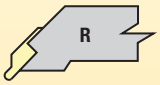
Yandan monte



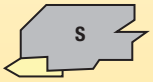
SU = Yandan monte yardımcısı



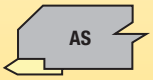
E = Uç



R = Alttan kesme



S = Yandan monte, merkezden kaçık

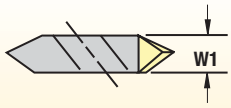


AS = Yandan monte, merkezden kaçıklık yok

Metrik:
ISO standardına göre mm olarak şaft yüksekliği ve genişliği ve tutucu boyu.

L1	ISO
32	A
40	B
50	C
60	D
70	E
80	F
90	G
100	H
110	J
125	K
140	L
150	M
160	N
170	P
180	Q
200	R
250	S
300	T
350	U
400	V
450	W
500	Y
Özel boy	X

Q = Şarta bağlı metrik tutucu

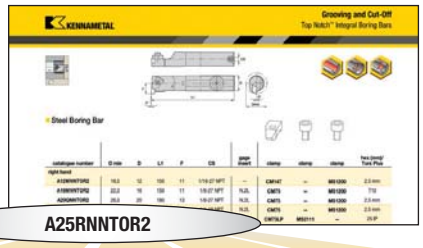


Yuva ölçüsü	T mm
2	3,81
3	4,95
4	6,98
5	9,65
6	9,73
8	11,13

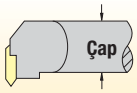
* Sadece tescilli Kennametal standardı.
** Yandan monte amaca uygun tutucu sadece NTU kesici uçlar kullanabilir.

Katalog numaraları nasıl kullanılır ?

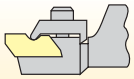
Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



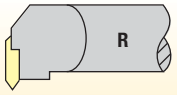
A	25	R	N	N	T	0	R	2
Bara tipi	Bara çapı	Bara boyu	Kesici uç bağlama yöntemi	Kesici uç şekli	Kesici uç konumu	Kesme açısı	Bara yönü	Kesici uç ölçüsü



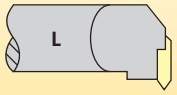
Milimetre olarak bara çapı



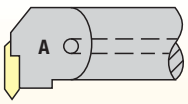
N* =
Top Notch



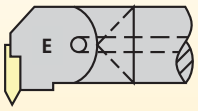
R = Sağ yönlü



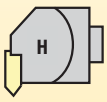
L = Sol yönlü



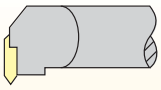
A = Çelik, içten soğutmalı



E = Karbür, içten soğutmalı

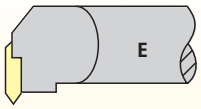


H = Birbiriyle değiştirilebilir kafa

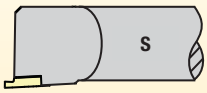


Metrik baralar:

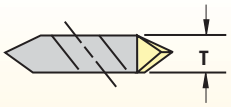
K	=	125mm
M	=	150mm
Q	=	180mm
R	=	200mm
S	=	250mm
T	=	300mm
U	=	350mm



E = Uçtan monte

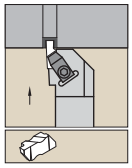


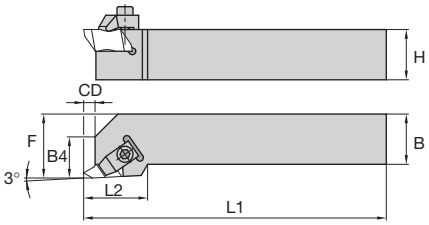
S = Yandan monte



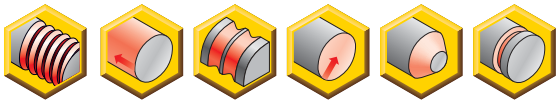
Yuva ölçüsü	T mm
1	3,54
2	3,81
3	5,35
4	6,40
5	9,65
6	9,73
8	11,13

* Sadece tescilli Kennametal standardı.





Sağ yönlü



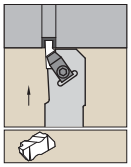
Tümleşik düz

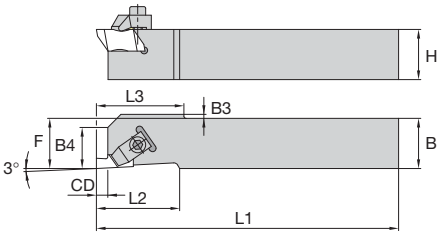




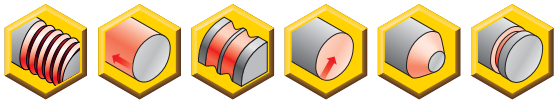
Siparis numarası	Katalog numarası	H	B	F	L1	LH	B4	CD	Ayar ucu	Çene	Sıkma vidası	Sıkma vidası	Altıgen (mm)/ Torx Plus
Sağ yönlü													
1098790	**NSR1010E2**	10	10	14	70	19	9	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098791	**NSR1212F2**	12	12	16	80	19	9	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098792	**NSR1616H2**	16	16	20	100	19	9	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098793	**NSR2020K2**	20	20	25	125	19	9	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098794	**NSR2525M2**	25	25	32	150	19	9	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098795	**NSR2020K3**	20	20	25	125	32	13	5,3	N.3R	**CM72LP**	–	**MS2111**	25 IP
1098796	**NSR2525M3**	25	25	32	150	32	13	5,3	N.3R	**CM72LP**	–	**MS2111**	25 IP
1098797	**NSR3225P3**	32	25	32	170	32	13	5,3	N.3R	**CM72LP**	–	**MS2111**	25 IP
1098798	**NSR3232P3**	32	32	40	170	32	13	5,3	N.3R	**CM72LP**	–	**MS2111**	25 IP
1098799	**NSR2525M4**	25	25	32	150	35	14	7,5	N.4R	**CM72LP**	–	**MS2111**	25 IP
1098800	**NSR3225P4**	32	25	32	170	35	14	7,5	N.4R	**CM72LP**	–	**MS2111**	25 IP
1098801	**NSR3232P4**	32	32	40	170	35	14	7,5	N.4R	**CM72LP**	–	**MS2111**	25 IP
Sol yönlü													
1098861	**NSL1010E2**	10	10	14	70	19	9	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098862	**NSL1212F2**	12	12	16	80	19	9	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098863	**NSL1616H2**	16	16	20	100	19	9	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098864	**NSL2020K2**	20	20	25	125	19	9	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098865	**NSL2525M2**	25	25	32	150	19	9	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098866	**NSL2020K3**	20	20	25	125	32	13	5,3	N.3L	**CM73LP**	–	**MS2111**	25 IP
1098867	**NSL2525M3**	25	25	32	150	32	13	5,3	N.3L	**CM73LP**	–	**MS2111**	25 IP
1098868	**NSL3225P3**	32	25	32	170	32	13	5,3	N.3L	**CM73LP**	–	**MS2111**	25 IP
1098869	**NSL3232P3**	32	32	40	170	32	13	5,3	N.3L	**CM73LP**	–	**MS2111**	25 IP
1098870	**NSL2525M4**	25	25	32	150	35	14	7,5	N.4L	**CM73LP**	–	**MS2111**	25 IP
1098871	**NSL3225P4**	32	25	32	170	35	14	7,5	N.4L	**CM73LP**	–	**MS2111**	25 IP
1098872	**NSL3232P4**	32	32	40	170	35	14	7,5	N.4L	**CM73LP**	–	**MS2111**	25 IP

NOT: N tip vida dişi açma ucunun keskin ucu üzerinden ölçülen F ölçüsü.

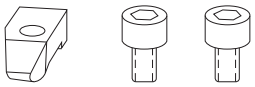




Sağ yönlü



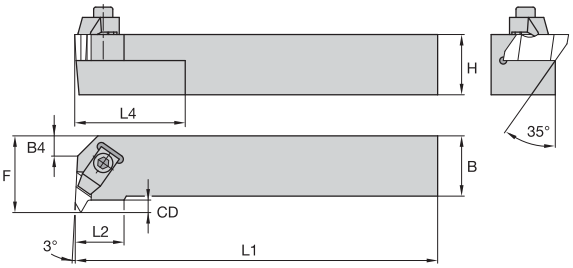
Tümleşik düz • Merkezden kaçıklık yok



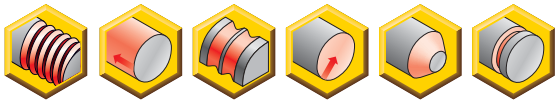
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	B4	CD	B3	L3	Ayar ucu	Çene	Sıkma vidası	Sıkma vidası	Altıgen (mm)/ Torx Plus
Sağ yönlü															
1098788	**NASR1010M2Q**	10	10	10	150	19	9	3,5	2,03	19	N.2R	**CM182**	**MS1200**	**–**	T10
1098789	**NASR1212M2Q**	12	12	12	150	19	9	3,5	–	–	N.2R	**CM182**	**MS1200**	**–**	T10
1098786	**NASR1616K3Q**	16	16	16	125	32	13	5,3	–	–	N.3R	**CM184LP**	**–**	**MS2111**	25 IP
Sol yönlü															
1098859	**NASL1010M2Q**	10	10	10	150	19	9	3,5	2,03	19	N.2L	**CM183**	**MS1200**	**–**	T10
1098860	**NASL1212M2Q**	12	12	12	150	19	9	6,9	–	–	N.2L	**CM183**	**MS1200**	**–**	T10
1098857	**NASL1616K3Q**	16	16	16	125	32	13	5,3	–	–	N.3L	**CM185LP**	**–**	**MS2111**	25 IP

NOT: N tip vida dişi açma ucunun keskin ucu üzerinden ölçülen F ölçüsü.

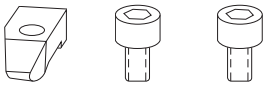




Sağ yönlü

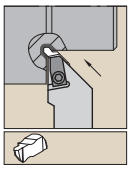


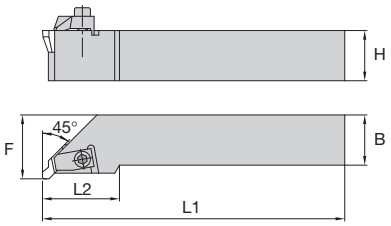
Tümleşik uçtan monte



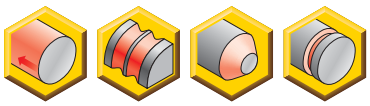
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	CD	Ayar ucu	Çene	Sıkma vidası	Sıkma vidası	Torx/ Torx Plus
Sağ yönlü												
1098803	**NER1616H2**	16	16	20	100	15	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098804	**NER2020K2**	20	20	25	125	15	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098805	**NER2525M2**	25	25	32	150	15	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098806	**NER2525M3**	25	25	32	150	22	5,3	N.3L	**CM73LP**	–	**MS2111**	25 IP
1098807	**NER3225P3**	32	25	32	170	22	3,8	N.3L	**CM73LP**	–	**MS2111**	25 IP
1098808	**NER2525M4**	25	25	35	150	24	6,4	N.4L	**CM73LP**	–	**MS2111**	25 IP
1098809	**NER3225P4**	32	25	35	170	24	6,4	N.4L	**CM73LP**	–	**MS2111**	25 IP
1098810	**NER3232P4**	32	32	40	170	24	6,4	N.4L	**CM73LP**	–	**MS2111**	25 IP
Sol yönlü												
1098874	**NEL1616H2**	16	16	20	100	15	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098875	**NEL2020K2**	20	20	25	125	15	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098876	**NEL2525M2**	25	25	32	150	15	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098877	**NEL2525M3**	25	25	32	150	22	5,3	N.3R	**CM72LP**	–	**MS2111**	25 IP
1098878	**NEL3225P3**	32	25	32	170	22	3,8	N.3R	**CM72LP**	–	**MS2111**	25 IP
1098879	**NEL2525M4**	25	25	35	150	24	6,4	N.4R	**CM72LP**	–	**MS2111**	25 IP
1098880	**NEL3225P4**	32	25	35	170	24	6,4	N.4R	**CM72LP**	–	**MS2111**	25 IP
1098881	**NEL3232P4**	32	32	40	170	24	6,4	N.4R	**CM72LP**	–	**MS2111**	25 IP

NOT: N tip vida dişi açma ucunun keskin ucu üzerinden ölçülen F ölçüsü.

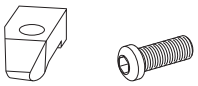




Sağ yönlü

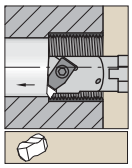


Tümleşik 45° Alt kesme • Metrik

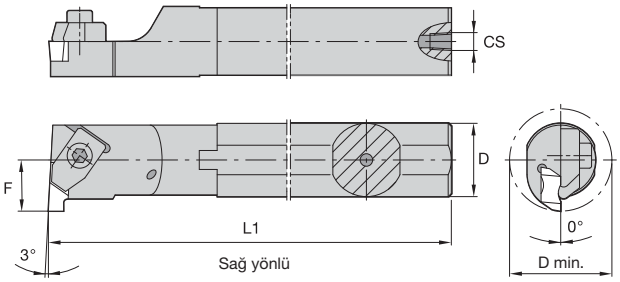


Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Çene	Sıkma vidası	Altıgen (mm)/ Torx Plus
Sol yönlü										
1098883	**NRL2020K3**	20	20	25	125	32	NU3125R	**CM72LP**	**MS2111**	25 IP
1098884	**NRL2525M3**	25	25	32	150	32	NU3125R	**CM72LP**	**MS2111**	25 IP
1098885	**NRL3225P3**	32	25	32	170	32	NU3125R	**CM72LP**	**MS2111**	25 IP
Sağ yönlü										
1098812	**NRR2020K3**	20	20	25	125	32	NU3125L	**CM73LP**	**MS2111**	25 IP
1098813	**NRR2525M3**	25	25	32	150	32	NU3125L	**CM73LP**	**MS2111**	25 IP
1098814	**NRR3225P3**	32	25	32	170	32	NU3125L	**CM73LP**	**MS2111**	25 IP

NOT: NR stili takım tutucular sadece “NU” stili uçlar ile uyumludur.



İçten soğutuculu çelik şaft.



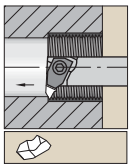


Çelik delik işleme barası • Metrik

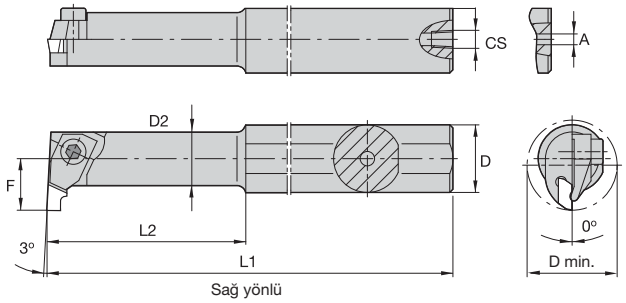


Sipariş numarası	Katalog numarası	D min.	D	L1	F	CS	Ayar ucu	Çene	Sıkma vidası	Sıkma vidası	Altıgen (mm)/ Torx Plus
Sağ yönlü											
1098945	**A12MNNTOR2**	18,5	12	150	11	1/16-27 NPT	–	**CM147**	–	**MS1200**	2.5 mm
1098947	**A16MNNTOR2**	22,0	16	150	11	1/8-27 NPT	N.2L	**CM75**	–	**MS1200**	T10
1098949	**A20QNNTOR2**	26,0	20	180	13	1/8-27 NPT	N.2L	**CM75**	–	**MS1200**	2.5 mm
1098951	**A25RNNTOR2**	34,0	25	200	17	1/4-18 NPT	N.2L	**CM75**	–	**MS1200**	2.5 mm
1098953	**A25RNNTOR3**	34,0	25	200	17	1/8 - 27 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1098955	**A32SNNTOR3**	44,0	32	250	22	1/4-18 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1098957	**A40TNNTOR3**	54,0	40	300	27	1/4-18 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1099001	**A40TNNTOR4**	54,0	40	300	27	1/4-18 NPT	N.4L	**CM73LP**	**MS2111**	–	25 IP
1099003	**A50UNNTOR4**	70,0	50	350	35	1/4-18 NPT	N.4L	**CM73LP**	**MS2111**	–	25 IP
Sol yönlü											
1098946	**A12MNNTOL2**	18,5	12	150	11	1/16-27 NPT	NG2R	**CM146**	–	**MS1200**	2.5 mm
1098948	**A16MNNTOL2**	22,0	16	150	11	1/8-27 NPT	N.2R	**CM74**	–	**MS1200**	T10
1098950	**A20QNNTOL2**	26,0	20	180	13	1/8-27 NPT	NG2R	**CM74**	–	**MS1200**	2.5 mm
1098952	**A25RNNTOL2**	34,0	25	200	17	1/4-18 NPT	N.2R	**CM74**	–	**MS1200**	2.5 mm
1098954	**A25RNNTOL3**	34,0	25	200	17	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1098956	**A32SNNTOL3**	44,0	32	250	22	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1098958	**A40TNNTOL3**	54,0	40	300	27	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1099002	**A40TNNTOL4**	54,0	40	300	27	1/4-18 NPT	N.4R	**CM72LP**	**MS2111**	–	25 IP

NOT: Minimum delik kapasitesi kanal derinliğine göre değişir. Ayrıntılar için sayfa C172' e bakınız.



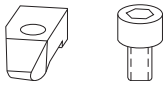
İçten soğutmalı boyunlu çelik şaft.



Sağ yönlü

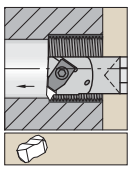


Çelik delik işleme barası • Küçük iç çap • Metrik

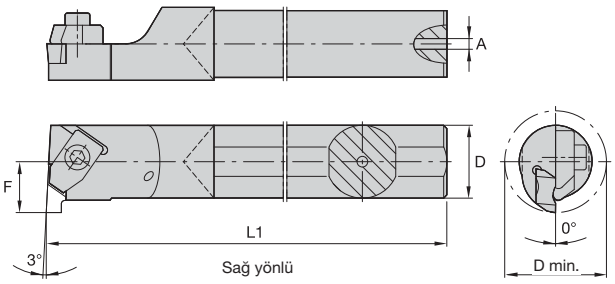


Sipariş numarası	Katalog numarası	D min.	D	D2	L1	L2	F	A	CS	Ayar ucu	Çene	Sıkma vidası	Altıgen (mm)
Sağ yönlü													
1098944	**A12MNNTOR1**	11,5	12	10,0	150	31,30	7	4,0	1/16-27 NPT	N.1L	**CM109**	**MS1034**	1.5 mm
1098943	**A10KNNTOR1**	11,5	10	10,0	125	—	7	3,2	—	NG1L	**CM109**	**MS1034**	1.5 mm

NOT: Minimum delik kapasitesi kanal derinliğine göre değişir. Ayrıntılar için sayfa C172' e bakınız.



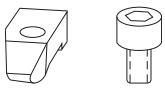
İçten soğutmalı karbür şaft.



Sağ yönlü

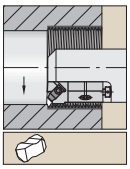


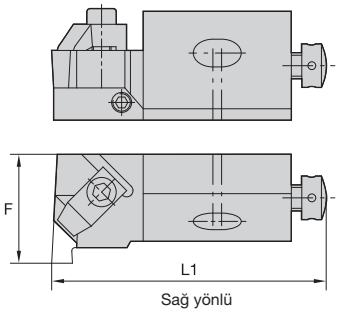
Karbür delik işleme barası



Sipariş numarası	Katalog numarası	D min.	D	L1	F	A	Ayar ucu	Çene	Sıkma vidası	Torx/ Torx Plus
Sağ yönlü										
1152834	**E16RNNTOR2**	22,0	16	200	11	5,537	N.2L	**CM75**	**MS1200**	T10
1152836	**E20SNNTOR2**	26,0	20	250	13	7,137	N.2L	**CM75**	**MS1200**	T10
Sol yönlü										
1152835	**E16RNNTOL2**	22,0	16	200	11	5,537	N.2R	**CM74**	**MS1200**	T10

NOT: Minimum delik kapasitesi kanal derinliğine göre değişir. Ayrıntılar için sayfa C172' e bakınız.







Çelik delik işleme kartuşu



Sipariş numarası	Katalog numarası	D min.	F	L1	Ayar ucu	Çene	Sıkma vidası	Altıgen (mm)	Radyal ayarlama vidası	Altıgen (mm)	Eksensel vida	Altıgen (mm)	Yaylı halka
Sağ yönlü													
1098380	**NER12CA2**	50	20	55,7	N.2L	**CM75**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
Sol yönlü													
1098624	**NEL12CA2**	50	20	55,0	N.2R	**CM74**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
1098626	**NEL25CA3**	100	32	100,0	N.3R	**CM72LP**	**MS412**	4 mm	**KUAM26**	4 mm	**KUAM33**	4 mm	**CSWM 100 080**

NOT: Minimum delik çapı (D min.) kapasitesi vida dişi tipine ve hatvesine göre değişir. Ayrıntılar için sayfa C172'e bakınız.
Top Notch tip vida dişi tornalama ucunun keskin ucu üzerinden ölçülen F ölçüsü.

Talaş kontrolü için işleme kuralları • Kanal açma

Uygun kesici çapı mevcut olmadığında, kesicinin doğru bir şekilde konumlandırılması pozitif sonuçlar sağlar.

- Kesici ucun merkez yüksekliği, iş parçasının merkezine ya da 0,13mm (.005") üzerine konumlandırılmış olmalıdır.
- Kanal tabanında duraklama süresi (en fazla üç devir) önerilmez.
- Talaş kontrolü, ilerleme oranı ile ilgilidir ve özel duruma uyacak şekilde ayarlanmalıdır. Önerilen ilerleme aralığı, 0,08–0,3 mm/dev. (.003–.012 IPR)' dir.

Talaş kontrolünde işleme kuralları • Tornalama/Profil tornalama

Kenar kesme için maksimum kesme derinliği (tornalama/profil tornalama), kesilen malzemeye ve takımın genişliğine bağlıdır.

- Genişliği 0,79–1,6mm (.031–.062") olan kesici uç 0,6mm (.025") derinliğe kadar kesebilir.
- Genişliği 1,7–3,3mm (.067–.128") olan kesici uç 1mm (.040") derinliğe kadar kesebilir.
- Genişliği 3,5–4,8mm (.138–.189") olan kesici uç 2mm (.080") derinliğe kadar kesebilir.
- Genişliği 5–6,35mm (.197–.250") olan kesici uç 3mm (.120") derinliğe kadar kesebilir.

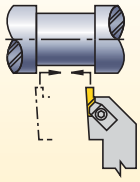
Kanal sınırları (Minimum iç çap kanal derinliği ve maksimum delik çapı)

Kesici uç katalog numarası	Maksimum iç çap kanal derinliği mm	Minimum delik çapı mm
NG-1094L	1,91	20,32
—	1,02	11,18
NG-2031R/L	1,27	18,54
NG-2041R/L	—	—
NG-2047R/L	—	—
NG-2058R/L	—	—
—	2,79	63,50
NG-2062R/L	2,59	44,45
NG-2094R/L	2,49	38,10
NG-2125R/L	2,03	25,40
—	1,40	18,54
NG-3047R/L	—	—
NG-3062R/L	2,39	44,45
NG-3072R/L	2,29	41,28
NG-3078R/L	1,91	34,93
NG-3088R/L	—	—
NG-3094R/L	—	—
NG-3097R/L	3,81	60,33
NG-3105R/L	—	—
NG-3110R/L	3,68	53,98
NG-3122R/L	—	—
NG-3125R/L	3,51	47,63
NG-3142R/L	—	—
NG-3156R/L	3,18	41,28
NG-3178R/L	—	—
NG-3185R/L	2,79	34,93
NG-3189R/L	—	—
NG-4125R/L	3,81	69,85
—	6,35	146,05
NG-4189R/L	6,22	127,00
NG-4213R/L	6,10	114,30
NG-4219R/L	5,54	82,55
NG-4250R/L	5,08	63,50

NOT: Aynı maksimum kanal derinliği ve minimum delik çapı metrik değerleri benzer ölçüde NG-K (talaş kontrolü) ve NR (tam radyüs) kesici uçlar için de geçerlidir.

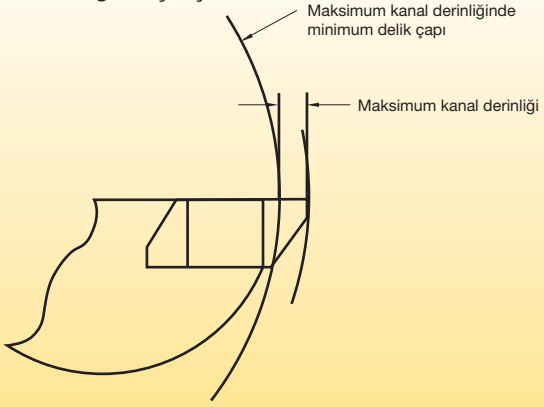
Kanalı hassas son tornalama

1. Kanal genişliğinin her iki tarafında dalma.
2. Malzeme kalıntısı yumağını temizlemek için merkez alanda dalma.
3. Kesici uç talaş kaynamasını önlemek ve kanal duvarının dik doğruluğunu sağlamak için belirtilen takım yolu izlenir.
4. Daima iyi talaş kırma, takım ömrü ve hassas son işlemeli yüzey kalitesi sağlayan çok hafif kesme derinliği kullanılır.



Kesici uç katalog numarası	Maksimum iç çap kanal derinliği mm	Minimum delik çapı mm
—	9,53	731,82
NG-5250R/L	9,17	401,62
NG-5281R/L	8,74	274,62
NG-5312R/L	8,31	185,72
NG-5344R/L	7,47	122,22
NG-5375R/L	6,53	90,47
—	5,46	71,42
NG-6250R/L	6,35	146,05
NG-6281R/L	6,22	127,00
NG-6312R/L	6,10	114,30
NG-6344R/L	5,54	82,55
NG-6375R/L	5,08	63,50

Bara titreşim sönümlemesi ile iç çap kanal derinliği karşılaştırması



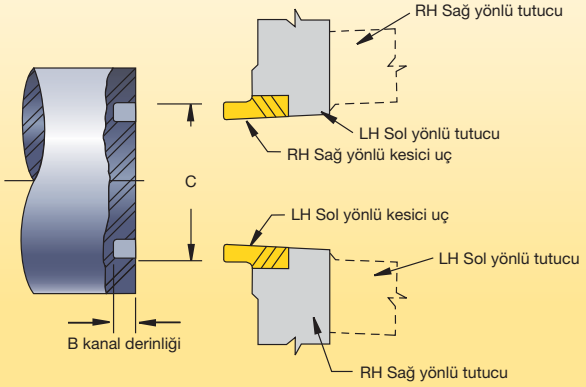
NOT: İç çap kanal açma derinliği sınırları delik çapları ile karşılaştırıldığında bara boşluğu işlevini yerine getirir.

Alına kanal açma işlemlerinde işleme kuralları • Dış çap

Standart NF/NDF Kesici uçlar

Kesici uç ürün grubu	Maksimum kanal derinliği "B" mm	Minimum kanal çapı "C" mm
NF-3	1,52	23,90
NF-3	2,39	30,50
NF-3	3,18	36,10
NF-3	3,81	41,30
NFD-3	6,35	47,60
NF-4/6	1,52	23,90
NF-4/6	2,39	30,50
NF-4/6	3,18	36,10
NF-4/6	3,81	41,30
NF-4/6	4,78	47,60
NF-4/6	6,35	57,20
NFD-4	9,53	57,20
NFD-4	12,70	57,20

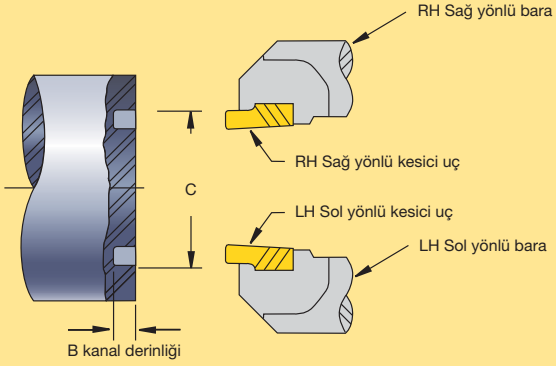
Takım tutucular



Standart NG/NGD Kesici uçlar

Kesici uç ürün grubu	Maksimum kanal derinliği "B" mm	Minimum kanal çapı "C" mm
NG-2	1,27	54,0
NG-2	2,79	88,9
NG-3	2,39	101,6
NG-3	3,18	127,0
NG-3	3,81	139,7
NGD-3	6,35	174,6
NG-4	3,81	152,4
NG-4	6,35	209,6
NGD-4	9,53	222,3
NGD-4	12,70	222,3
NG-5	9,53	333,0

Delik işleme baraları

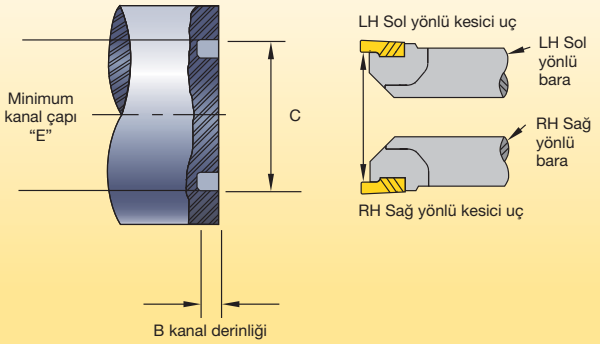


Alına kanal açma işlemlerinde işleme kuralları • İç çap

Kesici uç ürün grubu	Maksimum kanal derinliği "D" mm	Minimum kanal çapı "E" mm
NFD-3-KI	6,35	57,2

NOT: İç çap uygulamaları için sadece NFD-KI kesici uçlar kullanılır.

Delik işleme baraları

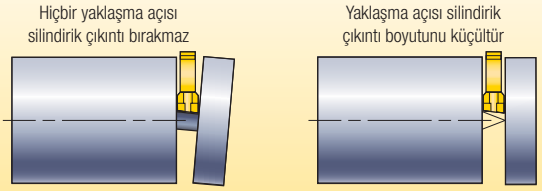


Takım uygulama yönergeleri

- Her zaman doğru ve güvenilirlikli genel işleme uygulamaları kullanılır.
- Tezgah ve iş parçası ayarları mümkün olduğunca rijit yapılır.
- Tümleşik şaft takım tutucuları en iyi rijitliği sağlar. Mümkünse, bu tip tutucu takım tutucu tercihiniz olmalıdır.
- Uygulama için olası en kısa kesme derinliğine sahip takım tutucu kullanılmalıdır ("CD" ölçüsü).
- Kesici uçlar değiştirirken, yeni kesici uç, takım tutucunun pozitif konumuna karşı güvenilir şekilde yerleştirildiğinden emin olunmalıdır.
- Bağlama vidasını uç yuvasında kesici uç yokken asla sıkılmaz.
- Takım bloğunun dışındaki takım tutucu bağlantı boyu mümkün olduğunca kısa olmalıdır.
- Kesici uçların merkeze olabildiğince yakın kesmesi gerekir.
- Kanal tabanında bekleme süresinin üç turdan az olması gerekir.
- Önerilen kesme hızı ve ilerlemeler bir başlangıç noktasıdır. Gerekirse, en uygun duruma getirilmiş takım ömrü ve talaş kontrolü için ayarlanır.

Tanımlamalar ve yönergeler

1. Kesme genişliği (W) = Kesici uç genişliği.
2. Yaklaşma açısı = 0° (nötr); 6° (Sağ veya Sol).

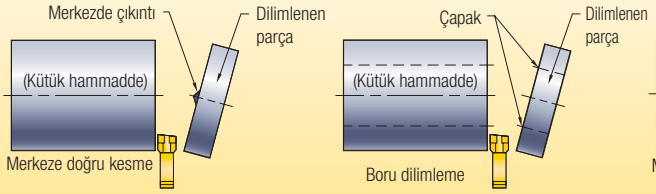


Kesme ve dilimleme yüzeylerinin çapağı azaltılır:

- Yaklaşma açılı tipte kesici uçlar kullanılır. (Şekiller 1 ve 2). Kesici ucun uçtaki yaklaşma açısı parçanın üstünde kalan çapağı azaltır, ancak takım ömrünü kısaltır, takım tarafındaki sapmayı ve büyük olasılıkla çevrim süresini uzatır.
- Eğer 0° yaklaşma açısı zorunlu ise, olası en dar kesici uç ve laması kullanılır. Bu, merkezi ucu veya dilimleme çapağı uzunluğunu kısaltacaktır.

Şekil 1

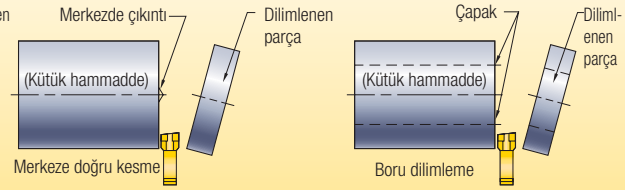
Sol yönden yaklaşmalı kesici uç seçimi



Sol yönden yaklaşmalı kesici uç parça üzerinde merkezde çıkıntı veya çapak bırakmaktadır ve temiz kütük hammadde yüzeyi sağlamaktadır.

Şekil 2

Sağ yönden yaklaşmalı kesici uç seçimi



Silindirik çıkıntıları azaltır, fakat takım ömrünü ve verimliliği azaltır

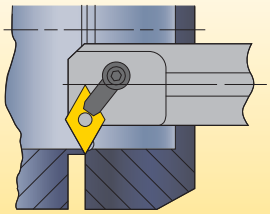
Sol yönden yaklaşmalı kesici uç kütük hammadde merkezinde çıkıntı veya çapak bırakmakta ve temiz parça yüzeyi sağlamaktadır.

- Toplam yükseklik kontrol edilir ve parça çapı ile merkezde hizalanarak korunur.
- Kesme kenarı yüksekliği merkeze doğru ±0,1mm (.004") içinde olmalıdır; önerilen kesme pozisyonu merkezin 0,05mm (.002") yukarısındadır.

Boru sistemleri

- İç çapta pah gerektiren boru tipli parçalarda, iç çap pah kırma takımı dilimlenecek yüzey ile hizalanır. Bu işlem pah kırma işleminin parçayı çubuktan ayırmasını sağlayacaktır (bkz. Şekil 3). Parça, pah kırılan çubuğun üstüne düşebilir, bu durumda çubuk parçasının heran düşebileceği varsayılarak yakalamak için dikkatli olunmalıdır.

Şekil 3

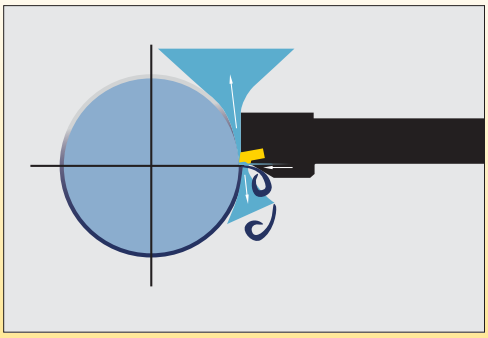


İçe doğru pah kırma hizalaması

Kesme ve dilimleme yüzeyi kalitesinin yükseltilmesi:

- 0° yaklaşma açılı kesici uç kullanılır.
- Şekil 4'te gösterildiği gibi soğutma sıvısı beslemesi artırılır veya uygulama tekniği iyileştirilir.
- Bir uçtan bir uca tam kesme noktasının yakınında ilerleme oranı azaltılır.
- Kanal açma takımının doğru açıda olduğu kontrol edilir.
- Olası en büyük yüzey yüksekliğine ve olası en küçük kesme genişliğine sahip lamalar kullanılır.
- Hız artırılır.

Şekil 4

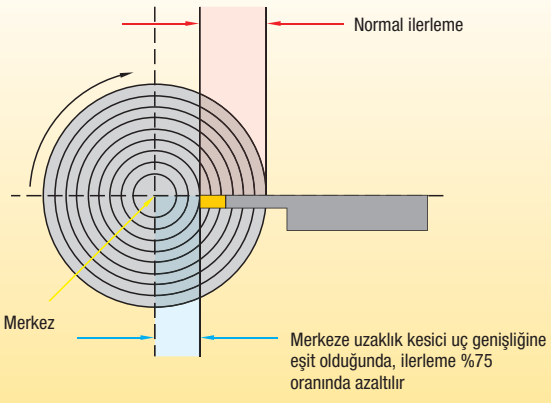


Soğutma sıvısını uygulamak için tercih edilen yöntem

- Kesme ve dilimleme takımı başaşağı monte edilir. Bu durumda talaşlar yerçekiminden dolayı kolaylıkla atılacak ve tekrar talaş kaldırma süreci engellenecektir. Takımın kafaüstü takılmasının bir diğer avantajı, talaşların takım girişiyle kanal tarafındaki duvarların arasına sıkışmasını ve buna bağlı kenar duvar yüzeyinde oluşan sıyrıkların önlenmesidir.

Programlama yönergeleri

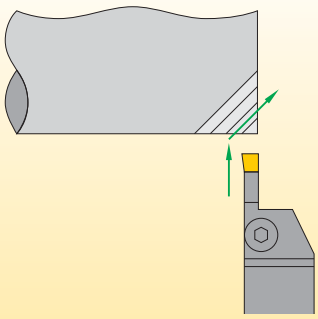
Kesme ve dileme işleminde ilerleme oranını azaltma



Merkeze yaklaşırken ilerlemede düşüş = Daha uzun takım ömrü

Pah kırma

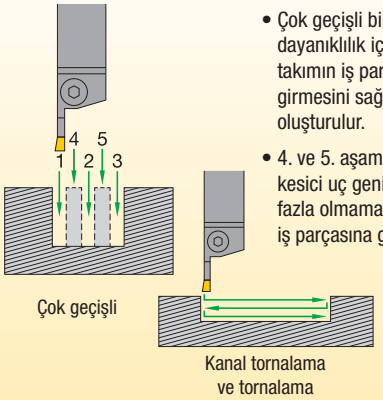
Tezgah konumlandırma süresi ve istasyonları azaltılmış bir kanal açma takımıyla pah kırma işlemi.



(devamı)

Programlama yönergeleri *(devamı)*

Cep boşaltma



- Çok geçişli bir işlemde maksimum dayanıklılık için 1, 2 ve 3 aşamada takımın iş parçasına tam olarak girmesini sağlayarak kanallar oluşturulur.
- 4. ve 5. aşamada kanal genişliği kesici uç genişliğinden %75 daha fazla olmamalı, böylece radyüslerin iş parçasına girmesi önlenmelidir.

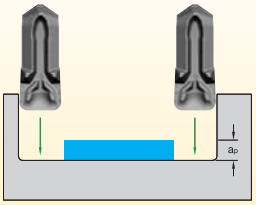
Cep derinliği genişliğinden fazlaysa = Çok geçişli

Cep genişliği derinliğinden fazlaysa = Kanal tornalama ve tornalama

Dik kenar cep

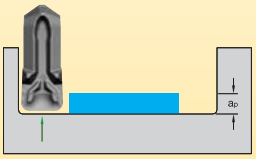
Adım 1 ve 2

İki kanal açmak için her iki tarafta radyüs ve duvar oluşturmak için dalma işlemi yapılır.



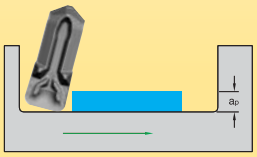
Adım 3

Düz bir taban oluşturmak için takım 0,1mm geri çekilir.



Adım 4

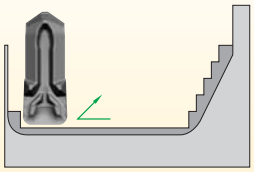
Kenar tornalama. Bu takım sapma yapma özellikli tasarlanmış olup, gerekli alın boşluğu oluşturur.



Profil cep boşaltma

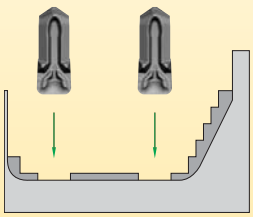
Adım 1

Hassas işleme için tüm yüzeyde yaklaşık eşdeğer miktarda yarı mamul malzeme kalana dek kaba işleme gerçekleştirilir.



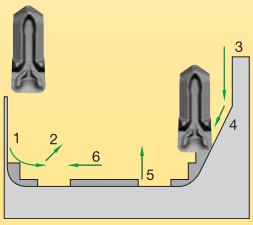
Adım 2

Duvar ve radyüsten dışarıya doğru iki kanal açılır.



Adım 3

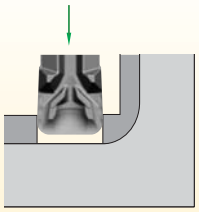
(1 ve 2) Duvar ve radyüsü hassas işlenir. (3 ve 4) Cebin karşı tarafında duvar oluşturma, açı ve radyüs hassas işlenir. (5) Takım 0,1mm (.004") geri çekilir. (6) Cep tabanını hassas işlemek için kenar tornalama işlemi gerçekleştirilir.



Bir radyüs oluşturma

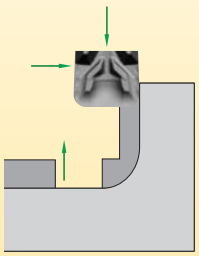
Adım 1

Radyüsten uzakta bir kanal açılır.



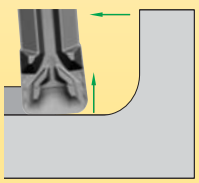
Adım 2

Duvardan malzemeyi boşaltmak ve radyüs oluşturmak için takım geri çekilir. Önceki adımda kanal oluşturarak, tek seferde sadece bir yüzey kavrandığından titreşim riski azaltılmış olur.



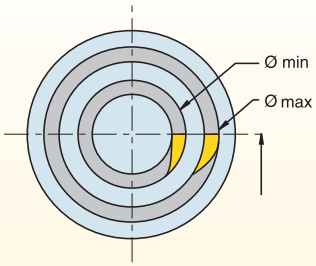
Adım 3

Takım 0,1 mm (.004") geri çekilir ve kenar tornalama uygulanır.



Kanal açma takımı hata ve çözüm rehberi

Alına kanal açma ile ilgili uygulama önergeleri



Takım seçimi

- Takım tutucuyu seçerken, her zaman mümkün olduğunca en büyük çap ile başlanır ve daha küçük çaplara doğru ilerlenir. Bu sayede çok güçlü takım kullanılabilir.

İlk kanal kesme

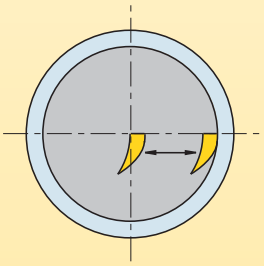
- İlk kanal çapı, takımın alına kanal açabilmesi için orta çap ve maksimum çap ölçüleri arasında olmalıdır (yukarıdaki görsele bakın). Böylece takım tutucunun geçişi için boşluk yaratılmış olur.

Talaş kontrolü

- İyi bir talaş kontrolü ve kanaldan boşaltılması için hız ve ilerleme ayarlanır. Talaş sıkışması; düşük yüzey kalitesi oluşumuna, takım kırılmasına ve takım ömrünün kısalmasına neden olabilir.

Takım ayarı

- Takım, aşırı çapak oluşumunu engellemek için mümkün olduğunca merkeze yakın konumda ayarlanır.
- Kesme kenarı iş parçasına göre dik açılı konumda ayarlanır.



Alına açılan kanalın genişletilmesi

- İlk kanal açıldıktan sonra, kanal genişliği, aynı takım kullanarak herhangi bir yönde arttırılabilir. En iyi uygulama, dış çaptan iç çapa doğru çalışmaktır.

Kanal açma problemlerine pratik çözümler

Sorun	Olası çözüm
Çapak	1. Takım merkezinin yüksekliği doğrulanır. 2. Keskin takımlar kullanılır (sık sık konumlandırılır). 3. Pozitif kesme sırtı PVD kaplı kesici uç kullanılır. 4. Uygun kalitede iş parçası malzemesi kullanılır. 5. Doğru geometri kullanılır (örn. soğuk sertleştirilmiş malzeme için pozitif kesme sırtı). 6. Takım yolu değiştirilir.
Düşük yüzey kalitesi	1. Hız artırılır. 2. Keskin takımlar kullanılır (sık sık konumlandırılır). 3. Tabanda 1–3 devirde bekleme süresi (maksimum). 4. Uygun talaş kontrol geometrisi kullanılır. 5. Soğutma sıvısı beslemesi artırılır. 6. Uygun kurulum doğrulanır (çıkıntı, şaft ölçüsü). 7. Doğru geometri kullanılır (örn. soğuk sertleştirilmiş malzeme için pozitif kesme sırtı).
Kanal tabanı düz değil	1. Keskin takımlar kullanılır (sık sık konumlandırılır). 2. Tabanda 1–3 devirde bekleme süresi (maksimum). 3. Takım bağlama boyu kısaltılır (rijitliğin artırılması). 4. Kanal tabanında ilerleme oranı azaltılır. 5. Daha geniş kesici uç kullanılır. 6. Takım merkezinin yüksekliği doğrulanır.
Zayıf talaş kontrolü	1. Keskin takımlar kullanılır (sık sık konumlandırılır). 2. Soğutma sıvısı beslemesi artırılır. 3. İlerleme oranı artırılır (genellikle önce artırılır).
Titreşim	1. Takım ve iş parçası bağlama boyu kısaltılır. 2. Hız artırılır (genellikle önce artırılır). 3. İlerleme artırılır (genellikle önce artırılır). 4. Takım merkezinin yüksekliği doğrulanır.
Kesici uçta talaş yapışması	1. Uygun kalitede iş parçası malzemesi kullanılır. 2. Hız artırılır. 3. İlerleme azaltılır. 4. Daha tok bir kalite kullanılır. 5. Takım ve kurulum rijitliği artırılır.
Kesme ağzında talaş yapışması	1. Pozitif kesme sırtı PVD kaplı kesici uç kullanılır. 2. Hız artırılır. 3. İlerleme azaltılır. 4. Soğutma sıvısı beslemesi artırılır. 5. Sermet kesici uç kullanılır.
Düz olmayan kenar duvarlar	1. Dik kenar için takım konumlandırılması kontrol edilir. 2. İş parçası ve takım bağlantı boyu kısaltılır. 3. Keskin kesici uçlar (sık sık konumlandırılır).

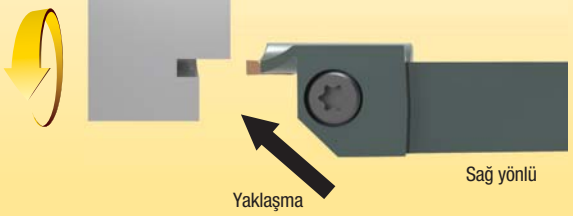
Alına kanal açma takımını doğru seçmek için adımlar

- Adım 1: İşmili dönüş yönü seçilir.
- Adım 2: Yaklaşma açısı ve takım tutucu yapılandırması seçilir.

Tümleşik takımlama

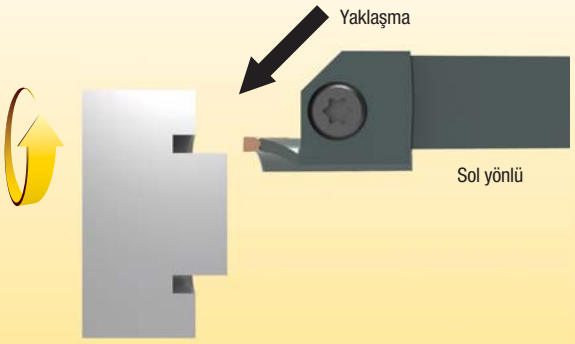
Saat yönü tersi dönme

Kare kesitli şaft

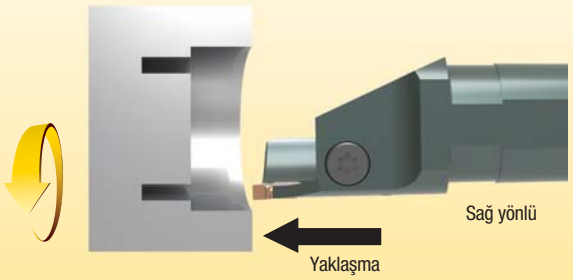


Saat yönü dönme

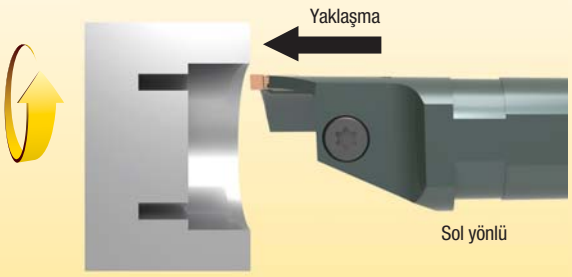
Kare kesitli şaft



Delik işleme barası



Delik işleme barası



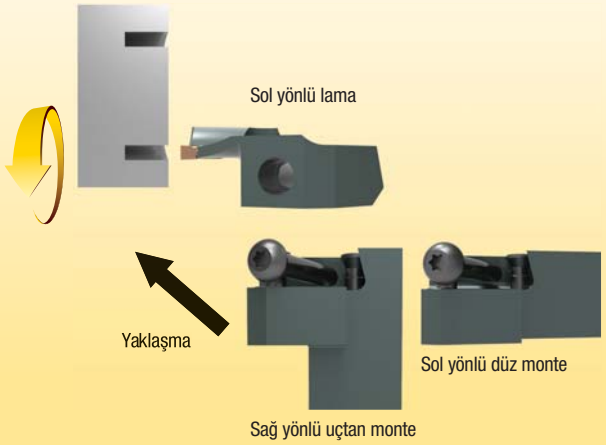
Modüler alına kanal açma takımını doğru seçmek için adımlar

- Adım 1: İşmili dönüş yönü seçilir.
- Adım 2: Yaklaşma açısı ve takım tutucu yapılandırması seçilir.
- Adım 3: Lama ve şaft takımı birleşimi belirlenir.

Modüler takımlama

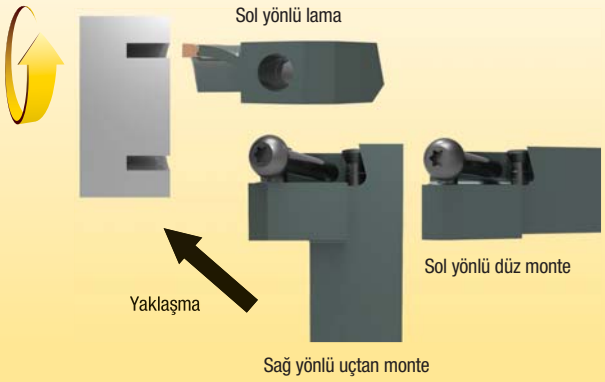
Saat yönü tersi dönme

Sol yönlü dısbükey tarama



Saat yönü dönme

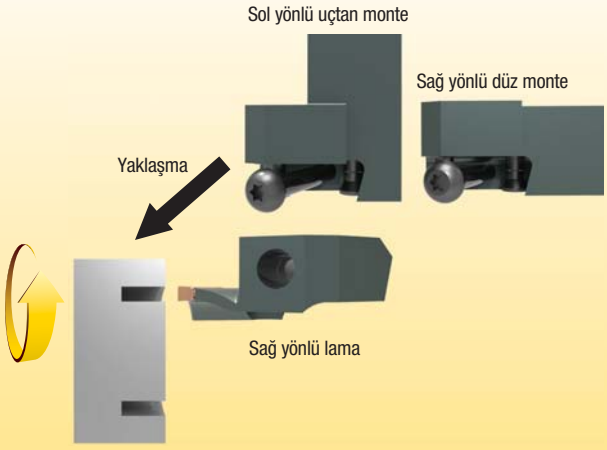
Sol yönlü içbükey tarama

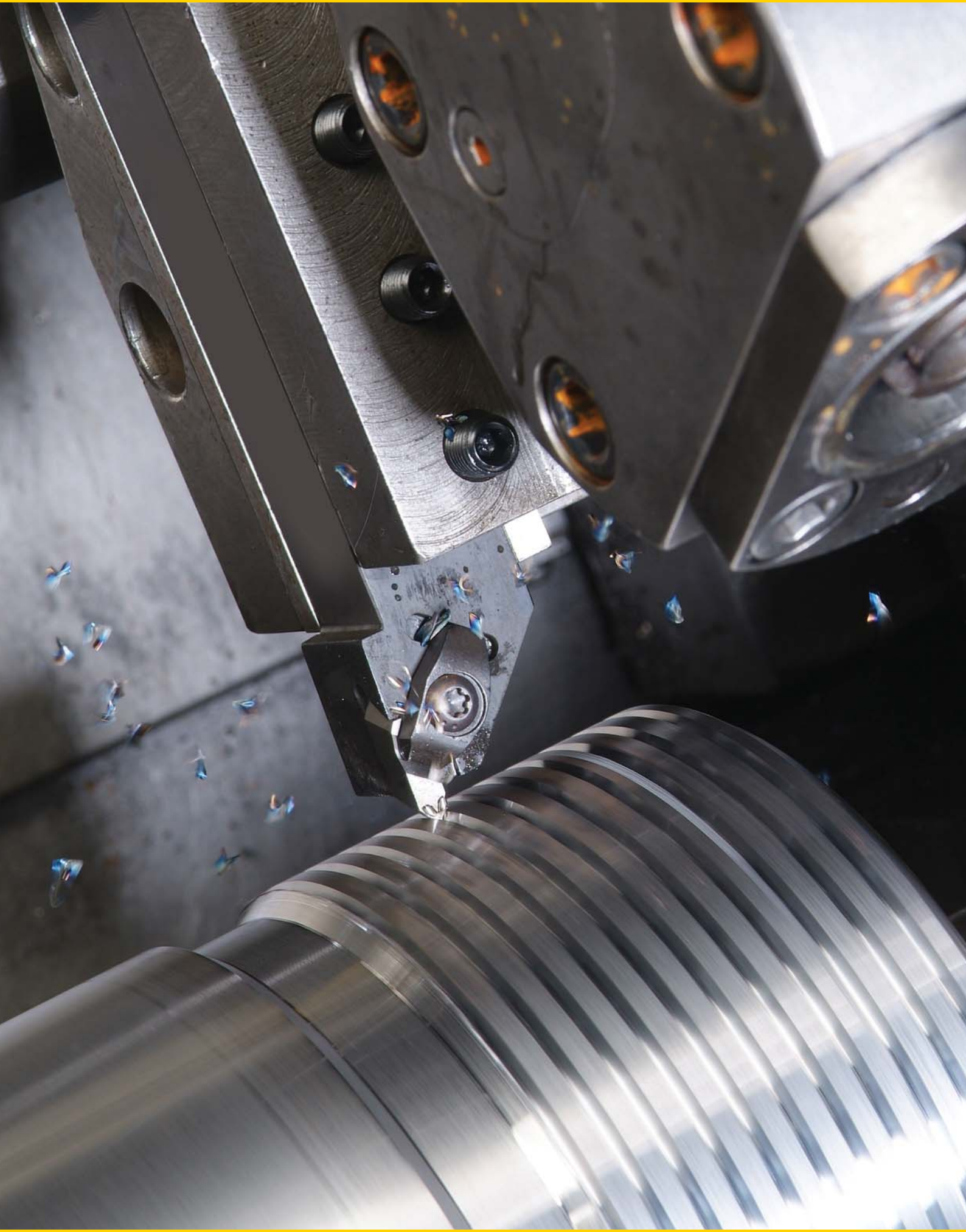


Sağ yönlü içbükey tarama



Sağ yönlü dışbükey tarama





Tornada vida dişi tornalama

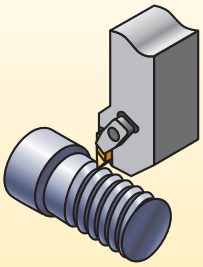
Vida dişi tornalama uygulama rehberi D2–D3

Top Notch Vida dişi tornalama D4–D43

Yatık konumda vida dişi tornalama D44–D87

Vida dişi tornalama ile ilgili teknik bilgi D88–D110

Top Notch İç çapta vida dişi tornalama

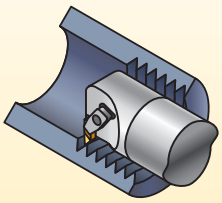


Kare şaft takım tutucu ölçüleri:
- Metrik — 10–32mm

Konik tepe çapı oluşturma (Tam profil):
32'li UN TPI–7
ISO 1,5–3,0mm Hatve

60° Kısmi profil — Düz uçlu (NTF ve NTK):
UN 44–4.5 TPI
ISO 0,6–5,5mm Hatve

Top Notch Dış çapta vida dişi tornalama

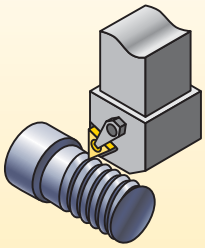


Delik işleme barası çapları:
- Metrik — 10–50mm
- Minimum iç çap 11,5mm
- Çelik

Konik tepe çapı oluşturma (Tam profil):
UN 16–8 TPI
ISO 1,5–3,0mm Hatve

60° Kısmi profil — Düz uçlu (NT-1L, NTF, and NTK):
UN 24–4.5 TPI
ISO 1,0–5,5mm Hatve

LT Yatık konumda dış çapta vida dişi tornalama

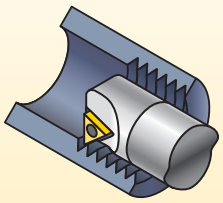


Kare şaft takım tutucu ölçüleri:
- Metrik — 8–40mm

Konik tepe çapı oluşturma (Tam profil):
UN 48–8 TPI
ISO 0,5–5,0mm Hatve

60° Kısmi profil:
UN 48–4 TPI
ISO 0,5–6,0mm Hatve

LT Yatık konumda iç çapta vida dişi tornalama



Delik işleme barası çapları:
- Metrik — 12–50mm
- Minimum iç çap — 13mm
- Çelik ve karbür

Konik tepe çapı oluşturma (Tam profil)
ve Kısmi profil:
UN 48–8 TPI
ISO 0,5–5,0mm Hatve

60° Kısmi profil:
UN 48–4 TPI
ISO 0,5–6,0mm hatve

55° Kısmi profil:
UN 48–5 TPI
ISO 0,5–5,0mm Hatve

Top Notch™ Vida dişi takımlama

Kanıtlanmış yüksek verimlilikte vida dişi tornalama çözümü

Beyond™ Kesici uç teknolojisi ile Top Notch vida dişi tornalama, hemen hemen her işlemde tutarlı bir takım performansı ve üstün bağlanma özelliğine sahip vida dişi oluşumu sağlar. Çok geniş kapsamlı kalite ve geometri seçimi sayesinde endüstride Top Notch vida dişi tornalama sistemi kanıtlanmış bir çözümdür.

Özellikler ve Avantajlar

Top Notch Vida dişi tornalama sistemini seçme

- Acme, testere dişi ve API işlemesi gibi zor işlenebilen malzemelerden oluşan uygulamalar için mükemmel bir seçimdir. Top Notch aynı zamanda kaba hatve ve çoklu dişli vida dişi tornalama uygulamaları için de en iyi sistemdir.
- Endüstride en geniş kapsamlı kesici uç geometrileri ve kaliteleri seçimi.
- Son derece rijit kesici uç bağlama tasarımı, çok uzun takım ömrü, hassas son işlemeli yüzey kalitesi ve iş parçası kalitesi sağlar.
- Top Notch tasarımın kolay kullanılabilir özelliği sayesinde vida dişi helis açıları için altlık seçimine gerek kalmaz. Bu özellik üretim bölümündeki hataları önlemeye yardımcı olur.
- Gerek vida dişi tornalama uçları ve gerekse kanal tornalama uçları ile aynı Top Notch takım tutucuların ve delik işleme baralarının kullanılması nedeniyle stokta bulundurma miktarı azaltılır.
- Top Notch talaş kırıcı uçlar sorun yaratan uzun talaş buklelerini ortadan kaldırır.
- Özel vida dişi şekilleri ve takım tutucu tasarımları için mükemmel bir seçim.

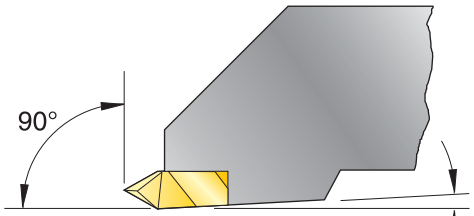
Top Notch™ kesici uçlar, vida dişi tornalama ucu kesme kenarı isteklerini karşılamak üzere KCU10™ ve KCU25™ kalitelerde mevcuttur.

Top Notch çeliğin çok yönlülüğü, aynı takım tutucuda hem vida dişi tornalama hem de kanal açma uçlarının kullanmasına olanak sağlar.



Hassas taşlanmış vida dişi şekli

- Kesme ağzında talaş yapışmasını en aza indirir.
- Çok yaygın kullanılan malzemeleri kusursuz işler.
- Kesme kuvvetlerini azaltır.
- Doğru, yüksek kaliteli vida dişleri sağlar.



NOT: Tutucular, alt kısımda açık tarafta arka boşluğu sağlamak için kesici uçlar 3° eğimle yerleştirilecek şekilde tasarlanmıştır.

Üstün talaş kontrolü

- Uzun, sıkıntı yaratan talaş buklelerini ortadan kaldırır.
- İç çapta vida dişi tornalama işlemleri için mükemmel.
- 60° vida dişi şekilleri için kısmi profil kesici uçlar olarak mevcut.

Adım 1 • Vida dişi tornalama yöntemini ve takım yönünü seçme

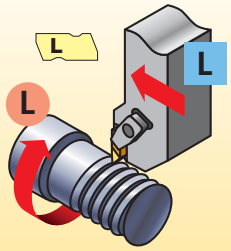
Gerekli bilgi:

- Dış çap/iç çap işlemi.
- İşmili dönüşü/vida dişi yönü.
- İlerleme yönü.

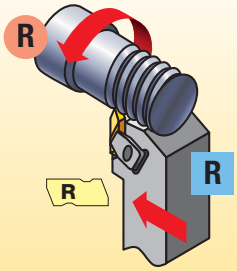


Vida dişi yönü | Takım tutucu yönü | Kesici uç yönü

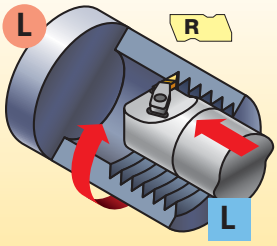
İlerleme yönü torna aynasına doğru • ÖNERİLEN



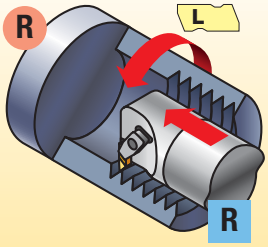
Dış çap sol yönlü vida dişi



Dış çap sağ yönlü vida dişi

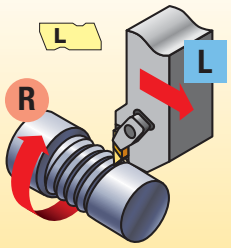


İç çap sol yönlü vida dişi

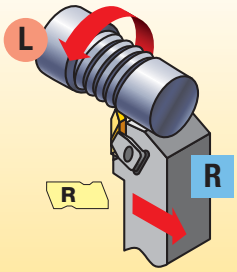


İç çap sağ yönlü vida dişi

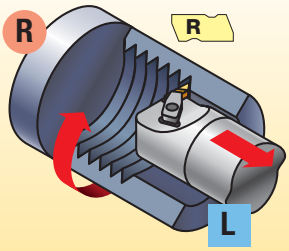
Ilerleme yönü torna aynasından uzak



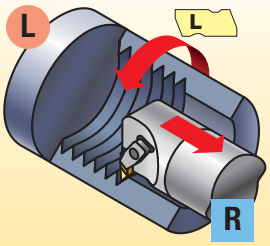
Dış çap sağ yönlü vida dişi



Dış çap sol yönlü vida dişi



İç çap sağ yönlü vida dişi



İç çap sol yönlü vida dişi

Adım 2 • Katalog sayfasından tutucu seçme

Kesici uç ölçüsünün, seçilen takım tutucuda bulunan mastar kesici uç ölçüsü ile eşleşmesi zorunludur:

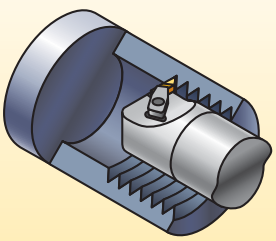
Gerekli bilgi:

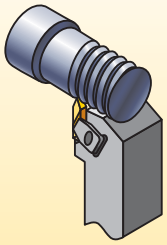
- Dış çap/iç çap işlemi.
- Minimum delik çapı (iç çap işlemleri için).
- Takım yönü.
- Kesici uç ölçüsü (mastar kesici uç).

Katalog numarası	Mastar kesici uç
NSR-163D	N.3R
NSR-164D	N.4R

NOT: Top Notch takım tutucular ve delik işleme baraları, gerekli ölçüyü ve yönü belirtmek için bir mastar kesici uç ile birlikte listelenir. Aynı ölçüde hem kanal tornalama ve hem de vida dişi tornalama uçları ile uyumludur.

Kesici uç ölçüsü ve yönü için uygun tutucu seçilir:



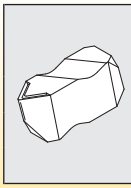


NOT: Uygun kesme derinliği ilerleme yöntemi ve önerilen kesme derinliği ilerleme değerleri kullanılarak vida dişi tornalama işlemi en uygun duruma getirilir.

Sayfa D88–D110 Teknik bölüme bakınız Bu kataloğun.
İç çap vida dişi tornalama için minimum delik vida dişine bağlı olarak değişir.
Ayrıntılı bilgi için sayfa D102 bakınız.

Adım 3 • Uygulama için kesici uç seçme

- Sayfa D11' de bulunan vida dişi tornalama ucuna genel bakış bölümüne bakınız.
- Çap kontrolü dahil, tam kontrollü vida dişi şekli için konik tepe çapı oluşturma uçları seçilir. Konik tepe çapı oluşturma uçları, çapak alma gerekliliğini ortadan kaldırır.
- Konik tepe çapı oluşturmamış kısmı profilli uçlar, çeşitli vida dişi hatvelerini kesebilir.
- Takım tutucu seçimi için kesici uç ölçüsü dikkate alınır.



Kesici uç ölçüsü	Katalog numarası	KCU25/ KC5025	KCU10/ KC5010
2	**NT-2RK**	●	●
3	**NT-3RK**	●	●
4	**NT-4RK**	●	●

Adım 4 • Kalite ve hız seçme

Kalite ve hız seçme önerileri — m/dk.

İş parçası malzemesi	Çelik	Paslanmaz çelik	Dökme demir	Demir dışı metaller	Isıl dirençli alaşımlar
Kesici uç tipi	Talaş kontrolü veya nötr 	Talaş kontrolü veya pozitif 	Nötr 	Pozitif 	Pozitif 
En uygun duruma getirilmiş kesme koşulları	**KCU10/KC5010** 70–260	**KCU10/KC5010** 90–245	**KCU10/KCU5010** 60–245	**KC5410** 90–550	**KCU10/KCU5010** 30–150
İlk tercih	**KCU25/KC5025** 50–230	**KCU25/KC5025** 75–230	**KCU25/KCU5025** 50–180	**KCU25/KC5025** 60–455	**KCU25/KCU5025** 20–120

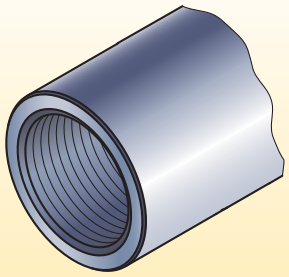
Örnekler:

Talaş kontrolü: NT-K veya NT-CK (sadece kısmi profil)
Nötr: NT, NT-C, NTF, NTC, NJ, NJF, NDC-V, NA, NDC, NTB-A/B
Pozitif: NTP, NTK, NJP, NJK

Top Notch Vida dişi tornalama örneği:

Uygulama: 8 TPE Acme iç çap sağ yönlü vida dişi
Malzeme: Alaşımlı çelik
İş parçası çapı: 114,3mm İyi kesme koşulları torna aynasına doğru ilerleme

Öneri:
Kesici uç: NA3L8
Kalite: KCU10
Kesici uç ölçüsü: 3
Delik işleme barası: A40NER3
Mastar kesici uç: N.3L
Hız: 150 m/dk.
Kesme derinliği ilerleme için geçişli işlemeler*: 12 geçişli işleme



* Kesme derinliği ilerleme önerileri teknik bilgi bölümünde D97–D101 sayfalarında görülebilir.

Önerilen başlangıç hızları [m/dk.]

Malzeme grubu		K68			KCU10/KC5010			KCU25/KC5025			KC5410		
P	0–1	–	**–**	–	135	**200**	260	105	**165**	230	–	**–**	–
	2	–	**–**	–	130	**190**	245	100	**150**	200	–	**–**	–
	3	–	**–**	–	105	**155**	200	75	**125**	170	–	**–**	–
	4	–	**–**	–	70	**120**	160	60	**95**	130	–	**–**	–
	5	–	**–**	–	105	**155**	200	75	**130**	170	–	**–**	–
	6	–	**–**	–	70	**120**	160	50	**90**	130	–	**–**	–
M	1	45	**75**	105	120	**180**	245	90	**170**	230	–	**–**	–
	2	35	**65**	100	90	**165**	210	75	**140**	200	–	**–**	–
	3	35	**65**	100	90	**165**	210	75	**135**	200	–	**–**	–
K	1	30	**75**	120	120	**180**	245	90	**135**	180	–	**–**	–
	2	25	**60**	100	90	**150**	210	70	**120**	170	–	**–**	–
	3	20	**55**	90	60	**105**	150	50	**85**	120	–	**–**	–
N	1–2	90	**245**	365	150	**365**	550	120	**305**	455	245	**425**	610
	3	45	**75**	105	90	**135**	180	60	**105**	150	90	**150**	210
	4	60	**120**	180	120	**305**	455	100	**200**	305	120	**305**	455
	5	45	**90**	150	90	**165**	245	70	**135**	195	120	**210**	305
	6	35	**75**	120	120	**210**	305	100	**170**	245	120	**245**	365
S	1	8	**25**	45	30	**70**	105	20	**40**	60	–	**–**	–
	2	8	**24**	40	30	**65**	100	20	**35**	45	–	**–**	–
	3	8	**24**	40	30	**65**	100	20	**35**	45	–	**–**	–
	4	9	**60**	105	55	**105**	150	45	**85**	120	–	**–**	–
H	1	–	**–**	–	30	**45**	60	–	**–**	–	–	**–**	–
	2	–	**–**	–	15	**30**	45	–	**–**	–	–	**–**	–
	3	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–
	4	–	**–**	–	–	**–**	–	–	**–**	–	–	**–**	–

NOT: İLK tercih başlangıç hızları **kalın** harflerle yazılmıştır.

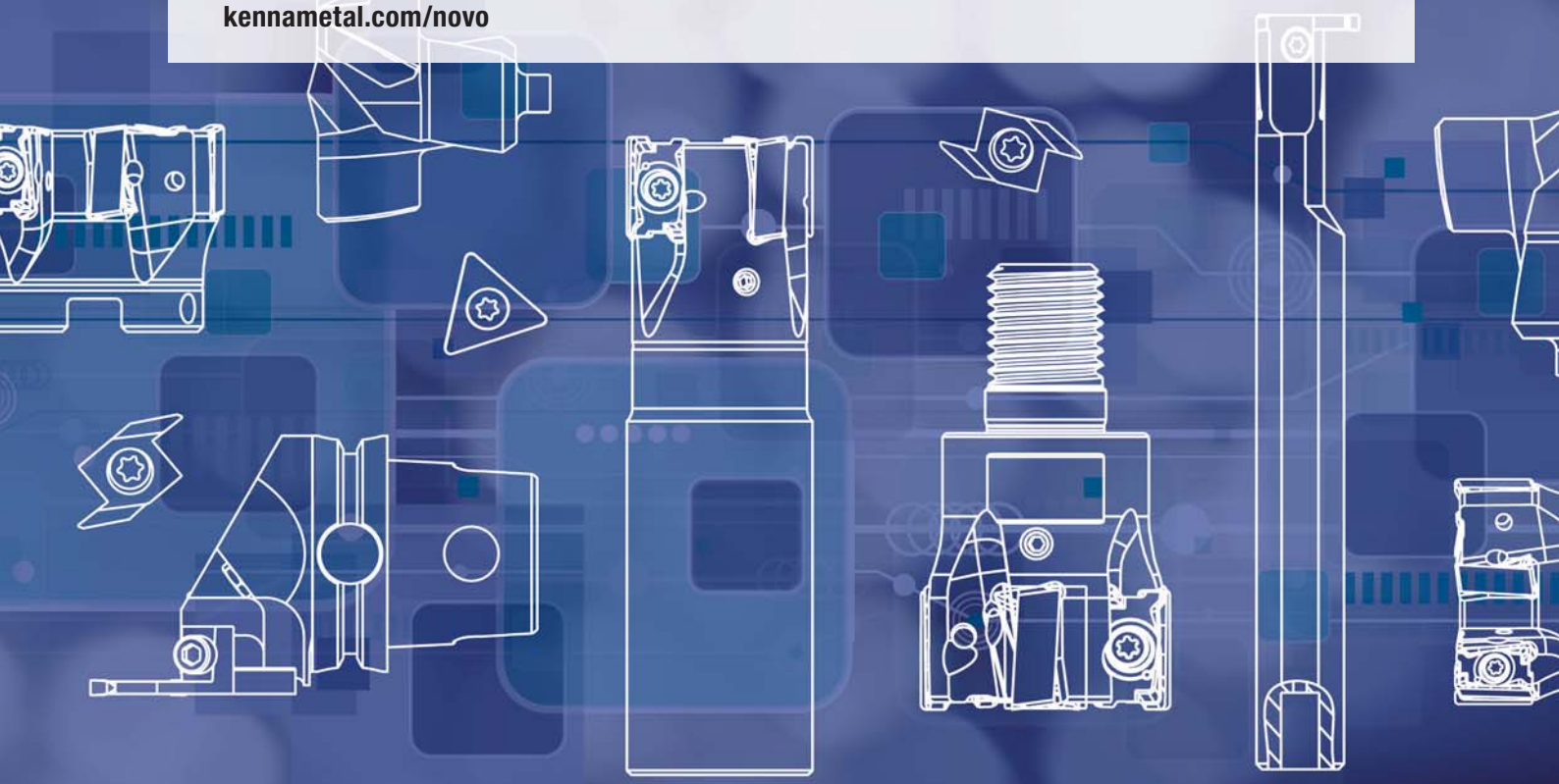
NOVO CAD/CAM UYGULAMALARINI BİLİR

NOVO™, desteğinin ekibinize katılımıyla, CAD/CAM becerileriniz eksiksiz, daha kolay uygulanabilir ve üretken duruma gelir.

NOVO öncesi: Programcı kendi CAD/CAM yazılımına girer ve bir parçayı programlardı. Katalogda bir takım bulmak için yorucu bulma yöntemi kullanılır ve ardından katalogdan alınan takım bilgisi elle CAD/CAM yazılımına girilirdi. Sorun, varsayımların yapılması ve sadece kısmi takım bilgilerinin girilmesidir.

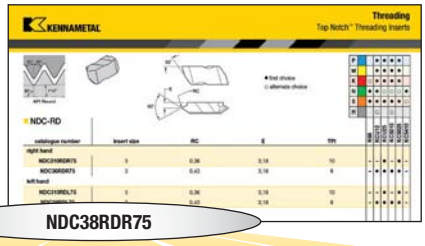
NOVO ile: NOVO'nun güçlü dijital zekası sadece programcının metal işleme için doğru takımı bulmasına yardımcı olmaz, ayrıca tüm takımlama bilgisini eksiksiz bir CAD/CAM çözümünde otomatik olarak bir araya getirir. Tüm takımlama bilgisinin uyarlanması, programlanan parçanın uygulanabilirliğini artırır ve size anında zamandan tasarruf sağlar.

NOVO tezgahlarınızda işinize uygun takımlara doğru sıralamayla sahip olabilmenizi sağlar. Her işi hızlandırır ve sorunsuz uygulama ile her vardiyadan en yüksek verimliliğin elde edilebilmesini sağlar.
kennametal.com/novo



Katalog numaraları nasıl kullanılır ?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



N	D	C	3	8RD	R	75	
Kesici uç tipi	Kesici uç	Ek bilgi	Kesici uç ölçüsü	Endüstriyel vida dişi tanımlama	Kesici uç yönü	Kesici uç tanımı	Ek bilgi

N — Top Notch*



B — Testere dişi

F — İnce hatveli

S — Keskin uçlu Acme

C — Konik tepe çapı oluşturma

P — Pozitif kesme

K — İnce hatveli, pozitif

API ya da delik delme endüstriyel tanımını (örneğin, 10RD, 8RD, .038) belirtir ya da kontrollü diş tabanı radyüsü vida dişi tornalama uçları, .001" artışlarla (NJ, NJF, NJP, NJK) diş tabanı radyüsünü belirtir. Ayrıca M, ISO Metrik vida dişini belirtir.

R — Sağ yönlü

L — Sol yönlü

- İnç veya hatve (metrik için) başına vida dişi
- "A" veya "B" tipi testere dişli kesici uç
- Yarda başına konik — API vida dişleri

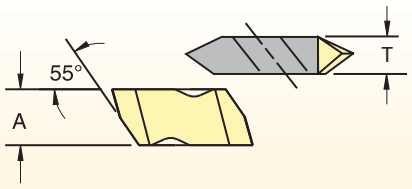
A — Acme

D — API veya NPT

J — UNJ vida dişi

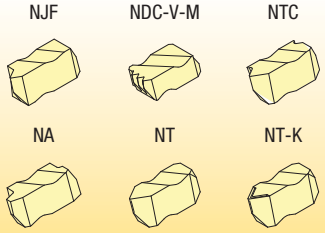
T — 60° V vida dişi

W — 55° V Whitworth



Top Notch vida dişi ölçüleri

Kesici uç ölçüsü	A mm	T mm
1	2,54	2,54
2	5,56	3,81
3	8,74	4,95
4	11,51	6,48
5	17,48	9,65
6	11,51	9,73
8	7,93	11,13



I — İç vida dişi

E — Dış çap vida dişi (sadece iç çap ve dış çap vida dişleri şekli farklı ise kullanılır)

M — Çoklu diş

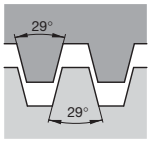
K — Standart talaş kontrolü

C — Kaba hatveli

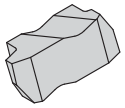
D — Sızdırmazlık contası vida dişi (Dryseal)

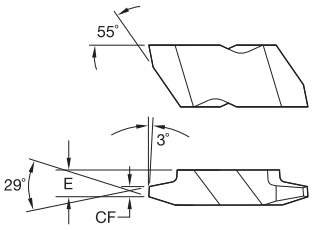
* Sadece tescilli Kennametal standardı.

Tip			Vida dişi profili	Standart	Tolerans sınıfı	Konik tepe çapı (tam profil) oluşturma	Uygulama	Sayfa/ Sayfalar
Talaş kontrolü — K	Nötr	Pozitif						
NT-K 	NT 	NTP 	60° Kısmi profil	–	–	N	Konik tepe çapı oluşmamış kesici uçların çeşitli hatveleri kesmesi istendiği yerlerde genel olarak ISO ve UN gibi 60° vida dişi şekilleri kullanılır.	D19, D24
NT-CK 			60° Kısmi profil — Kaba hatveli	–	–	N	Konik tepe çapı oluşmamış kesici uçların çeşitli hatveleri kesmesi istendiği yerlerde genel olarak ISO ve UN gibi 60° kaba hatveli vida dişi şekilleri kullanılır.	D21
	NTF 	NTK 	60° Kısmi profil — İnce hatveli	–	–	N	Konik tepe çapı oluşmamış kesici uçların çeşitli hatveleri kesmesi istendiği yerlerde genel olarak ISO ve UN gibi 60° ince hatveli vida dişi şekilleri kullanılır. — Dik kenarlara yakın vida dişi açabilir.	D23
	NTU 		60° Kısmi profil — İnce hatveli	–	–	N	60° kısmi profilli vida dişi tornalama için dört kesme kenarlı kesici uç - 4U kesici uç ölçüsü için NSU tipi takım tutucu gerekir.	D24
	NTC-M 		ISO Metrik	ISO R262, DIN 13	6g/6H	Y	Tüm endüstriler için yaygın kullanılan metrik 60° V şekli.	D21
	NTC 		Amerikan UN	ANSI B1.1:74	2A/2B	Y	Tüm endüstriler için yaygın kullanılan inç esaslı 60° V şekli.	D20
	NJ 	NJP 	UNJ	MIL-S-8879C	3A/3B	N	Savunma sanayi ve Uçak-uzay endüstrisi için dış çap vida dişlerinde kontrollü taban radyüsü.	D17–D18
	NJF 	NJK 	UNJ — İnce hatveli	MIL-S-8879C	3A/3B	N	Savunma sanayi ve Uçak-uzay endüstrisi için dış çap vida dişlerinde kontrollü diş tabanı radyüsü —Dik kenarlara yakın vida dişi açabilir.	D17–D18
	NDC-V 		NPT	ANSI/ACME B1.201: 1983	Standart NPT	Y	Boru bağlantı parçaları için ulusal boru vida dişi standardı şekilleri.	D16
	NDC-V-M 		NPT — Çoklu diş	ANSI/ACME B1.201: 1983	Standart NPT	Y	NPT vida dişleri için yüksek verimliliğe sahip çoklu dişli vida dişi tornalama uçları.	D16
	NWC-E 		Whitworth, BSW, BSP	BS 84:1956, ISO 228/1:1982, DIN 259	Orta sınıf A	Y	Gaz ve su bağlantıları için yaygın kullanılan 55° şekil.	D25
	ND 		API Döner dik kenar bağlantıları — Kısmi profil	API SPEC. 7:1990	Standart API	N	V-.038R, V-.040 ve V-.050 şekilleri içeren, petrol ve gaz endüstrisinde döner dik kenar boru bağlantıları için kullanılan 60° V şekli.	D14
	NDC 		API Döner dik kenar bağlantıları — Konik tepe çapı oluşturma	API SPEC. 7:1990	Standart API	Y	V-.038R, V-.040 ve V-.050 şekilleri içeren, petrol ve gaz endüstrisinde döner dik kenar boru bağlantıları için kullanılan 60° V şekli - Koniklik dahil, tam konik tepe çapı oluşturma şekli.	D14
	NDC-RD 		API Yuvarlak	API STD. 5B:1979	Standart API RD	Y	8 ve 10 yuvarlak sekiller içeren, petrol ve gaz endüstrisinde gövde, boru sistemi ve boru hattı için kullanılan büyük radyüslü 60° V sekli.	D15
	NDC-RD-M 		API Yuvarlak — Çoklu diş	API STD. 5B:1979	Standart API RD	Y	API yuvarlak vida dişleri için yüksek verimliliğe sahip çoklu dişli vida dişi tornalama uçları.	D15
	NA 		Acme	ANSI B1.5:1988	3G	N	Çok çeşitli endüstrilerde hareketli uygulamalar için 29° kesikli vida dişi şekli kullanılır.	D12
	NAS 		Keskin uçlu Acme	ANSI B1.8:1988	2G	N	Çok çeşitli endüstrilerde hareketli uygulamalar için sığ derinlikli 29° kesikli vida dişi şekli kullanılır.	D13
	NTB-A 		Amerikan testere diş — 7° Boşluk Kesme sırtı ön yüzü (Sürme)	ANSI B1.9:1973	Sınıf 2	N	Çeşitli endüstrilerde eksenel yük taşıyan uygulamalar için testere dişi şekli; 7° Boşluklu kesme sırtı yüzü, kesme sırtı ön yüzü olduğunda “A” tipi kullanılır.	D19
	NTB-B 		Amerikan testere dişi — 45° Boşluk kesme sırtı ön yüzü (Çekme)	ANSI B1.9:1973	Sınıf 2	N	Çeşitli endüstrilerde eksenel yük taşıyan uygulamalar için testere dişi şekli; 45° Boşluk kesme sırtı yüzü, kesme sırtı ön yüzü olduğunda “B” tipi kullanılır.	D20



Acme



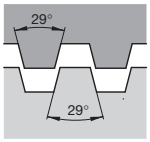


● İlk tercih
○ Alternatif tercih

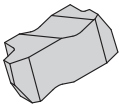
P			●	●	●	●	
M			●	●	●	●	
K	○	●	●	●	●		
N	●	●	○	○	○	●	
S	●	●	●	●	●	○	
H		○		○			

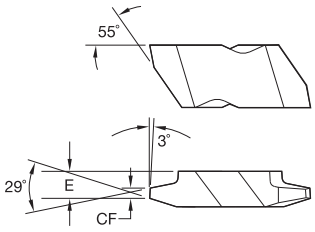
NA

Katalog numarası	Kesici uç ölçüsü	RC	E	CF	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü											
NA3R10	3	–	3,79	0,810	10	–	●	●	●	●	–
NA3R12	3	–	3,79	0,719	12	–	●	–	–	●	–
NA3R16	3	–	3,79	0,523	16	–	●	–	–	–	–
NA3R4	3	–	3,38	2,222	4	–	–	●	●	●	–
NA3R5	3	–	3,79	1,750	5	–	●	●	●	●	–
NA3R6	3	–	3,79	1,438	6	–	●	●	●	●	–
NA3R8	3	–	3,79	1,044	8	–	●	●	●	●	–
NA4R4	4	–	5,13	2,223	4	–	–	●	●	●	–
NA4R5	4	–	5,13	1,750	5	–	–	–	–	●	–
NA4R6	4	–	5,13	1,438	6	–	–	–	–	●	–
NA6R25	6	–	7,19	3,635	2.5	–	–	–	–	●	–
NA6R2	6	–	7,19	4,577	2	–	●	●	●	●	–
NA6R3	6	–	7,19	3,007	3	–	–	●	–	●	–
Sol yönlü											
NA3L8	3	–	3,79	1,044	8	–	●	●	●	●	–
NA3L10	3	–	3,79	0,810	10	–	–	●	–	●	–
NA3L12	3	–	3,79	0,719	12	–	–	–	●	●	–
NA3L4	3	–	3,38	2,222	4	●	●	●	●	●	–
NA3L5	3	–	3,79	1,750	5	–	–	●	●	●	–
NA3L6	3	–	3,79	1,438	6	–	–	●	●	●	–
NA4L5	4	–	5,13	1,750	5	–	–	–	–	●	–
NA4L6	4	–	5,13	1,438	6	–	–	–	–	●	–
NA4L8	4	–	5,13	1,044	8	–	–	●	–	–	–
NA4L4	4	–	5,13	2,223	4	–	●	–	–	●	–
NA6L3	6	–	7,19	3,007	3	–	–	●	–	●	–
NA6L25	6	–	7,19	3,635	2.5	–	–	●	–	–	–
NA6L2	6	–	7,19	4,577	2	–	–	●	●	●	–
NA3L16	3	–	3,79	0,523	16	–	●	–	–	–	–



Küt uçlu vida dişi Acme



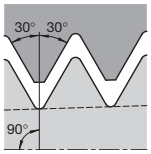


● İlk tercih
○ Alternatif tercih

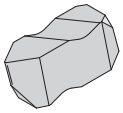
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

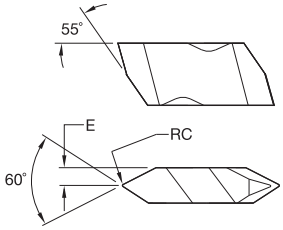
NAS

Katalog numarası	Kesici uç ölçüsü	RC	E	CF	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü											
NAS3R10	3	–	3,79	0,940	10	–	●	–	●	●	–
NAS3R12	3	–	3,79	0,828	12	–	–	●	–	●	–
NAS3R16	3	–	3,79	0,605	16	–	–	–	–	●	–
NAS3R4	3	–	3,79	2,550	4	–	–	●	–	●	–
NAS3R5	3	–	3,79	2,014	5	–	●	–	–	●	–
NAS3R6	3	–	3,79	1,656	6	–	●	–	●	●	–
NAS3R8	3	–	3,79	1,209	8	–	●	●	●	●	–
Sol yönlü											
NAS3L10	3	–	3,79	0,940	10	–	●	–	–	●	–
NAS3L12	3	–	3,79	0,828	12	–	–	–	–	●	–
NAS3L4	3	–	3,79	2,550	4	–	–	●	–	●	–
NAS3L5	3	–	3,79	2,014	5	–	●	–	–	●	–
NAS3L6	3	–	3,79	1,656	6	–	●	●	●	●	–
NAS3L8	3	–	3,79	1,209	8	–	●	●	●	●	–



API Döner dik kenar bağlantıları



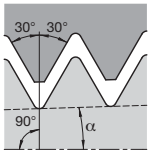


● İlk tercih
○ Alternatif tercih

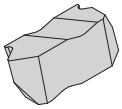
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

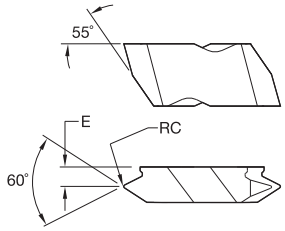
ND • Kısmi profil

Katalog numarası	Kesici uç ölçüsü	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü										
ND3040R	3	0,45	2,08	5	–	–	–	–	●	–
ND3038R	3	0,90	2,08	4	–	–	–	–	●	–
ND4050R	4	0,57	3,25	4	–	–	●	–	–	–
Sol yönlü										
ND3038L	3	0,90	2,08	4	–	–	–	–	●	–
ND3040L	3	0,45	2,08	5	–	–	●	–	–	–



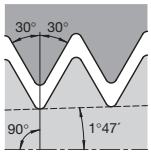
α =1/2arctg (tpf/12)
API Döner dik kenar bağlantılar



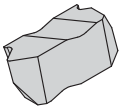


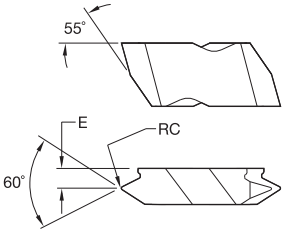
NDC • Konik tepe çapı oluşturma

Katalog numarası	Kesici uç ölçüsü	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü										
NDC3040R3	3	0,45	3,73	5	–	–	–	–	●	–
NDC4040R3	4	0,45	3,73	5	–	–	–	–	●	–
NDC4050R2	4	0,57	4,65	4	–	–	–	–	●	–
NDC4050R3	4	0,57	4,65	4	–	–	–	–	●	–
NDC4038R2	4	0,90	4,65	4	–	–	–	–	●	–
Sol yönlü										
NDC3040L3	3	0,45	3,73	5	–	–	–	●	–	–
NDC4050L2	4	0,57	4,65	4	–	–	–	–	●	–
NDC4038L2	4	0,90	4,65	4	–	–	–	–	●	–



API Yuvarlak



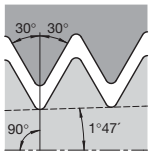


● İlk tercih
○ Alternatif tercih

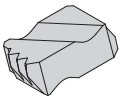
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

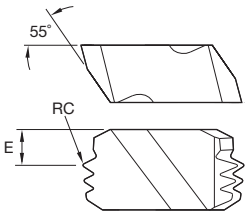
NDC-RD

Katalog numarası	Kesici uç ölçüsü	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü										
NDC310RDR75	3	0,36	3,18	10	–	–	–	–	●	–
NDC38RDR75	3	0,43	3,18	8	–	–	●	●	●	–
Sol yönlü										
NDC310RDL75	3	0,36	3,18	10	–	–	–	–	●	–
NDC38RDL75	3	0,43	3,18	8	–	–	●	●	●	–



API Yuvarlak



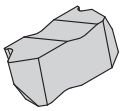


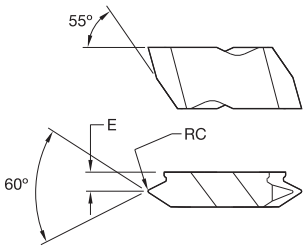
NDC-RD-M • Çok dişli

Katalog numarası	Kesici uç ölçüsü	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü										
NDC68RDR75M	6	0,41	2,62	8	–	●	–	–	–	–

● İlk tercih
○ Alternatif tercih

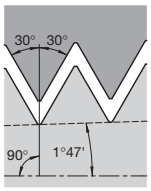
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		



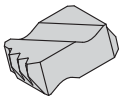


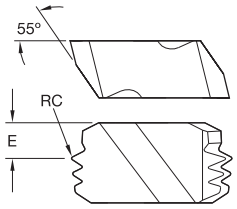
NDC-V

Katalog numarası	Kesici uç ölçüsü	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü										
NDC327VR75	3	0,05	3,66	27	–	●	–	–	–	–
NDC314VR75	3	0,08	3,66	14	–	●	–	–	–	–
NDC3115VR75	3	0,10	3,66	11.5	–	●	–	●	–	–
NDC38VR75	3	0,13	2,54	8	–	–	–	●	–	–
Sol yönlü										
NDC3115VL75	3	0,10	3,66	11.5	–	●	–	●	–	–
NDC38VL75	3	0,13	2,54	8	–	–	–	●	–	–



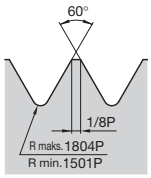
NPT



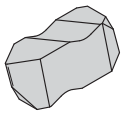


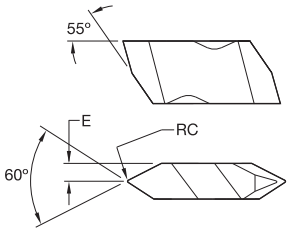
NDC-V-M • Çok dişli

Katalog numarası	Kesici uç ölçüsü	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü										
NDC8115VR75M	8	0,10	2,59	11.5	–	●	–	–	–	–
NDC88VR75M	8	0,13	2,41	8	–	●	–	●	–	–
Sol yönlü										
NDC88VL75M	8	0,13	2,41	8	–	–	–	●	–	–



UNJ-Dış çap



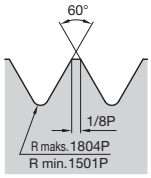


P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

● İlk tercih
○ Alternatif tercih

NJ

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NJ3010R16	3	0,25	2,49	–	–	16	–	●	–	●	–	●	–
NJ3014R12	3	0,33	2,49	–	–	12	–	–	●	●	●	●	–
NJ3020R8	3	0,49	2,49	–	–	8	–	–	–	–	●	●	–
Sol yönlü													
NJ3010L16	3	0,25	2,49	–	–	16	–	–	–	–	–	●	–
NJ3014L12	3	0,33	2,49	–	–	12	–	–	–	–	●	●	–
NJ3020L8	3	0,49	2,49	–	–	8	–	–	–	–	–	●	–



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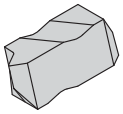
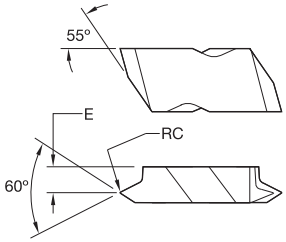
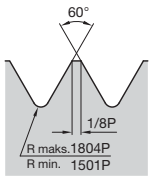


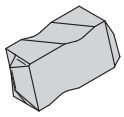


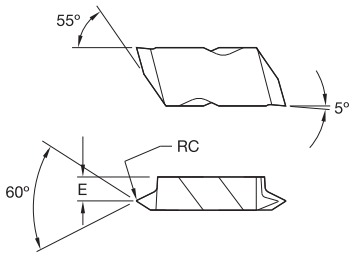
NJF

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NJF3005R32	3	0,13	3,58	–	–	32	–	–	●	–	●	–	–
NJF3006R28	3	0,15	3,58	–	–	28	–	–	–	–	●	●	–
NJF3007R24	3	0,17	3,58	–	–	24	–	–	–	–	●	●	–
NJF3008R20	3	0,20	3,58	–	–	20	–	–	–	–	●	●	–
NJF3009R18	3	0,22	3,58	–	–	18	–	●	–	●	●	●	–
NJF3010R16	3	0,25	3,58	–	–	16	–	–	–	–	●	●	–
NJF3012R14	3	0,28	3,58	–	–	14	–	–	–	●	●	●	–
Sol yönlü													
NJF3007L24	3	0,17	3,58	–	–	24	–	–	–	–	●	–	–
NJF3008L20	3	0,20	3,58	–	–	20	–	–	–	–	●	–	–
NJF3010L16	3	0,25	3,58	–	–	16	–	–	–	–	●	–	–



UNJ-Dış çap



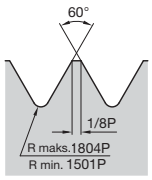


● İlk tercih
○ Alternatif tercih

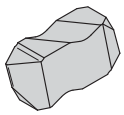
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P		●	●	●	●		
M		●	●	●	●		
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

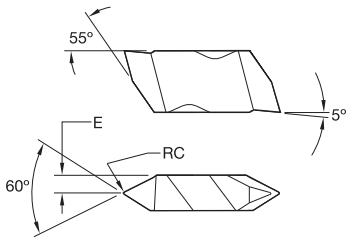
NJK

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NJK3005R32	3	0,13	3,58	–	–	32	–	–	–	–	●	●	–
NJK3006R28	3	0,15	3,58	–	–	28	–	–	–	●	●	–	–
NJK3007R24	3	0,17	3,58	–	–	24	–	–	–	●	●	●	–
NJK3008R20	3	0,20	3,58	–	–	20	–	–	●	●	●	●	–
NJK3009R18	3	0,22	3,58	–	–	18	–	–	–	–	●	●	–
NJK3010R16	3	0,25	3,58	–	–	16	–	–	–	●	●	●	–
NJK3012R14	3	0,28	3,58	–	–	14	–	–	–	–	●	●	–
Sol yönlü													
NJK3005L32	3	0,13	3,58	–	–	32	–	–	–	–	–	●	–
NJK3006L28	3	0,15	3,58	–	–	28	–	–	–	–	–	●	–



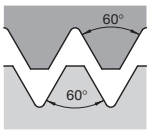
UNJ-Dış çap



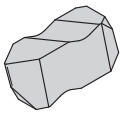


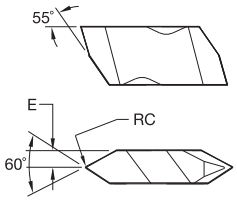
NJP

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NJP3010R16	3	0,25	2,49	–	–	16	–	–	●	–	●	●	–
NJP3014R12	3	0,33	2,49	–	–	12	–	●	●	●	●	●	–
NJP3020R8	3	0,49	2,49	–	–	8	–	–	–	●	●	●	–
Sol yönlü													
NJP3010L16	3	0,25	2,49	–	–	16	–	–	–	–	–	●	–
NJP3014L12	3	0,33	2,49	–	–	12	–	–	–	–	●	–	–
NJP3020L8	3	0,49	2,49	–	–	8	–	–	–	–	–	●	–



Kısmi profil 60°



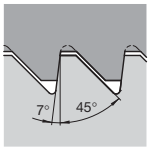


P	M	K	N	S	H
●	●	●	●	●	
●	●	●	○	○	○
●	●	●	○	●	
●	●	●	●	●	

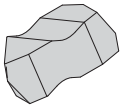
● İlk tercih
○ Alternatif tercih

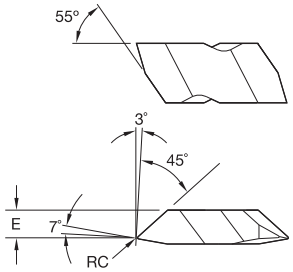
NT

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NT2R	2	0,10	1,90	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NT3R	3	0,17	2,49	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NT4R	4	0,17	3,25	1,25-6,25	2,0-6,25	4-20	4-12	●	●	●	●	●	–
Sol yönlü													
NT2L	2	0,10	1,90	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NT3L	3	0,17	2,49	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NT4L	4	0,17	3,25	1,25-6,25	2,0-6,25	4-20	4-12	●	●	●	●	●	–



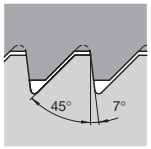
Amerikan Testere diş, sürmeli



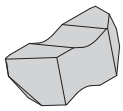


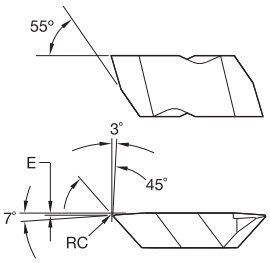
NTB-A

Katalog numarası	Kesici uç ölçüsü	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü										
NTB2RA	2	0,08	3,20	16-20	●	–	–	–	–	–
NTB3RA	3	0,17	4,17	8-16	–	●	–	–	●	–
NTB4RA	4	0,25	5,23	4-6	–	●	–	–	–	–
Sol yönlü										
NTB3LA	3	0,17	4,17	8-16	●	–	–	●	●	–



Amerikan testere diş, çekmeli



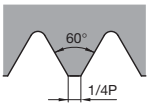


● İlk tercih
○ Alternatif tercih

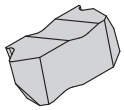
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

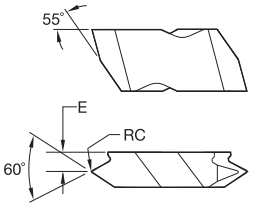
NTB-B

Katalog numarası	Kesici uç ölçüsü	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü										
NTB2RB	2	0,08	0,25	16-20	–	–	–	●	–	–
NTB3R12B	3	0,16	2,49	12	–	–	–	●	–	–
NTB3RB	3	0,17	0,31	8-16	●	●	●	●	●	–
NTB4RB	4	0,25	0,41	4-6	–	●	–	●	●	–
Sol yönlü										
NTB2LB	2	0,08	0,25	16-20	–	●	–	●	–	–
NTB3L12B	3	0,16	2,49	12	–	–	–	●	–	–
NTB3LB	3	0,17	0,31	8-16	●	●	–	●	●	–
NTB4LB	4	0,25	0,41	4-6	–	–	–	●	●	–



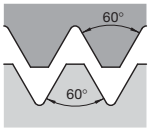
Amerikan UN-İç çap



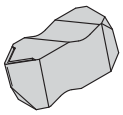


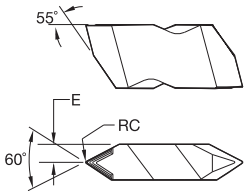
NTC-I

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NTC3R12I	3	0,10	3,76	–	–	–	12	–	–	–	–	●	–
Sol yönlü													
NTC3L12I	3	0,10	3,76	–	–	–	12	–	–	–	–	●	–
NTC3L14I	3	0,09	3,76	–	–	–	14	–	–	–	–	●	–
NTC3L16I	3	0,08	3,76	–	–	–	16	–	–	–	–	●	–
NTC3L8I	3	0,18	2,72	–	–	–	8	–	–	–	–	●	–
NTC3L10I	3	0,13	2,72	–	–	–	10	–	–	–	–	●	–



Kısmi profil 60°



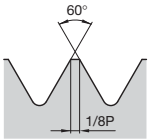


● İlk tercih
○ Alternatif tercih

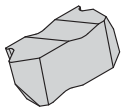
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

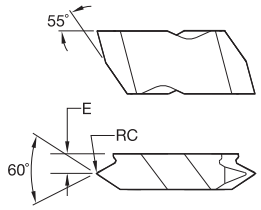
NT-CK

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NT3RCK	3	0,34	2,46	2,5-4,0	4,0	6-11	6	–	●	●	●	●	–
NT4RCK	4	0,34	3,23	2,5-5,5	4,0-5,5	4,5-11	4.5-6	–	–	●	●	●	–
Sol yönlü													
NT3LCK	3	0,34	2,46	2,5-4,0	4,0	6-11	6	–	●	●	●	●	–
NT4LCK	4	0,34	3,23	2,5-5,5	4,0-5,5	4,5-11	4.5-6	–	–	●	–	●	–



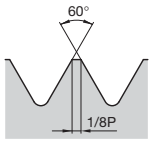
ISO Metrik-Dış çap



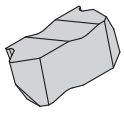


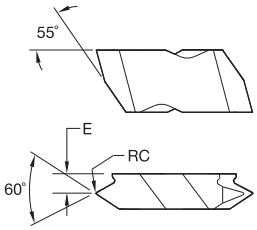
NTC-M-E

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NTC3MR150E	3	0,20	3,68	1,50	–	–	–	–	●	–	●	●	–
NTC3MR200E	3	0,27	3,68	2,00	–	–	–	–	–	–	●	–	–



Amerikan
UN-Dış çap



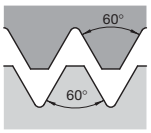


● İlk tercih
○ Alternatif tercih

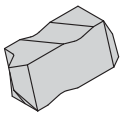
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

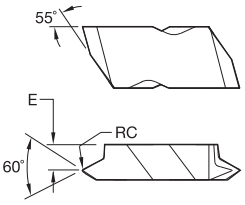
NTC-E

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NTC3R32E	3	0,10	3,76	–	–	32	–	–	●	–	–	●	–
NTC3R28E	3	0,12	3,76	–	–	28	–	–	–	–	–	●	–
NTC3R24E	3	0,13	3,76	–	–	24	–	–	–	–	●	●	–
NTC3R20E	3	0,16	3,76	–	–	20	–	–	●	–	●	●	–
NTC3R18E	3	0,18	3,76	–	–	18	–	–	–	●	●	●	–
NTC3R16E	3	0,19	3,76	–	–	16	–	–	–	–	●	●	–
NTC3R14E	3	0,22	3,76	–	–	14	–	–	–	–	●	●	–
NTC3R13E	3	0,24	3,76	–	–	13	–	–	–	–	●	●	–
NTC3R12E	3	0,25	3,76	–	–	12	–	–	–	●	●	●	–
NTC3R11E	3	0,28	2,72	–	–	11	–	–	●	–	–	●	–
NTC3R10E	3	0,32	2,72	–	–	10	–	–	–	–	●	●	–
NTC3R9E	3	0,36	2,72	–	–	9	–	–	●	–	–	–	–
NTC3R8E	3	0,41	2,72	–	–	8	–	–	●	–	●	●	–
NTC3R7E	3	0,47	2,72	–	–	7	–	–	–	–	–	●	–
Sol yönlü													
NTC3L16E	3	0,19	3,76	–	–	16	–	–	●	–	–	–	–
NTC3L12E	3	0,25	3,76	–	–	12	–	–	●	–	–	–	–
NTC3L10E	3	0,32	2,72	–	–	10	–	–	●	–	–	–	–
NTC3L8E	3	0,41	2,72	–	–	8	–	–	–	–	●	–	–



Kısmi profil 60°



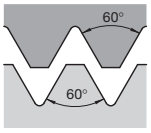


● İlk tercih
○ Alternatif tercih

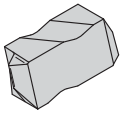
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

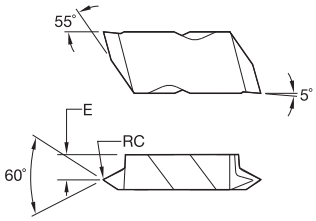
NTF

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NTF2R	2	0,08	2,79	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTF3R	3	0,08	3,58	0,60-2,5	1,0-2,5	10-44	9-24	●	●	●	●	●	–
NTF4R	4	0,08	5,11	0,60-2,5	1,0-2,5	10-44	9-24	–	–	–	–	●	–
Sol yönlü													
NTF2L	2	0,08	2,79	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTF3L	3	0,08	3,58	0,60-2,5	1,0-2,5	10-44	9-24	●	●	●	●	●	–



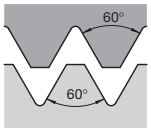
Kısmi profil 60°



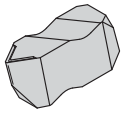


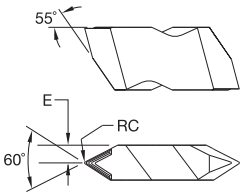
NTK

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NTK2R	2	0,08	2,79	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTK3R	3	0,08	3,58	0,60-2,50	1,0-2,5	10-44	9-24	●	●	●	●	●	–
Sol yönlü													
NTK2L	2	0,08	2,79	0,60-1,75	1,0-2,0	14-44	12-24	●	●	●	●	●	–
NTK3L	3	0,08	3,58	0,60-2,50	1,0-2,5	10-44	9-24	●	●	●	●	●	–



Kısmi profil 60°



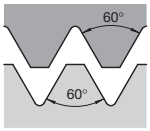


● İlk tercih
○ Alternatif tercih

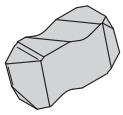
		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

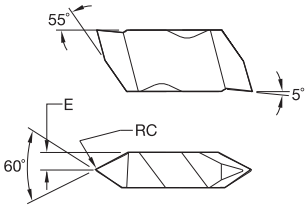
NT-K

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NT2RK	2	0,10	1,90	0,70-3,0	1,25-3,5	8-36	7-20	–	●	●	●	●	–
NT3RK	3	0,17	2,49	1,25-4,0	2,0-5,0	6-20	5-12	–	●	●	●	●	–
NT4RK	4	0,16	3,24	1,25-6,25	2,0-6,25	4-20	4-12	–	●	●	●	●	–
Sol yönlü													
NT2LK	2	0,10	1,90	0,70-3,0	1,25-3,5	8-36	7-20	–	●	●	●	●	–
NT3LK	3	0,17	2,49	1,25-4,0	2,0-5,0	6-20	5-12	–	●	●	●	●	–
NT4LK	4	0,16	3,24	1,25-6,25	2,0-6,25	4-20	4-12	–	●	●	●	●	–



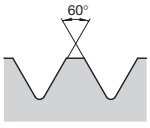
Kısmi profil 60°



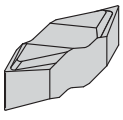


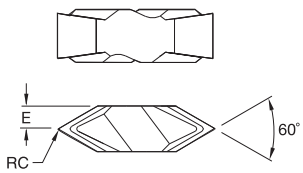
NTP

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NTP2R	2	0,10	1,91	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NTP3R	3	0,17	2,49	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	●
NTP4R	4	0,17	3,25	1,25-6,25	2,0-6,25	4-20	4-12	–	●	●	●	●	–
Sol yönlü													
NTP2L	2	0,10	1,91	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NTP3L	3	0,17	2,49	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NTP4L	4	0,17	3,25	1,25-6,25	2,0-6,25	4-20	4-12	–	–	–	●	●	–



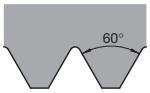
Kısmi profil
60° Dış çap



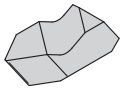


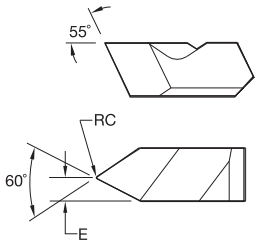
NTU

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü													
NTU4R	4U	0,11	3,18	1,25-6,25	–	4-20	–	–	–	●	–	●	–



Kısmi profil
60° Dış çap



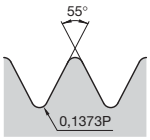


● İlk tercih
○ Alternatif tercih

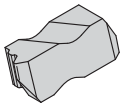
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

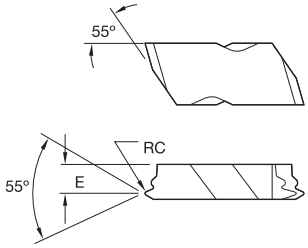
NT-1L

Katalog numarası	Kesici uç ölçüsü	RC	E	Dış çap hatve mm	iç çap hatve mm	Dış çap vida dişi TPI	İç çap vida dişi TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sol yönlü													
NT1L	1	0,08	1,09	–	1,0-2,0	–	12-24	●	●	●	●	●	–



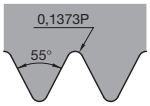
Whitworth BSW,
BSP-Dış çap



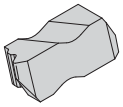


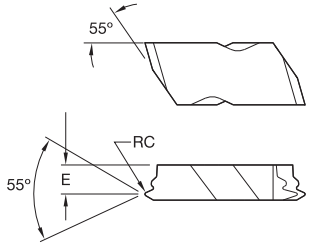
NWC-E

Katalog numarası	Kesici uç ölçüsü	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sağ yönlü										
NWC3R14E	3	0,24	3,43	14	–	–	●	●	–	–
NWC3R11E	3	0,30	3,43	11	–	–	–	●	●	–



Whitworth BSW,
BSP-İç çap



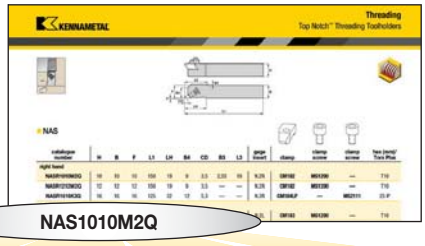


NWC-I

Katalog numarası	Kesici uç ölçüsü	RC	E	TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
Sol yönlü										
NWC3L11I	3	0,30	3,43	11	–	–	–	–	●	–

Katalog numaraları nasıl kullanılır ?

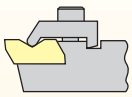
Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



NAS1010M2Q

N	AS	R		1010	M	2	Q
Kesici uç bağlama yöntemi	Kesici uç baglama konumu	Takım yönü	Üstü açık kafa	Şaft ölçüsü	Takım boyu	Kesici uç ölçüsü	Sartlı tutucu

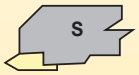
N —
Top Notch



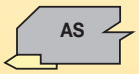
Uçtan bağlamalı



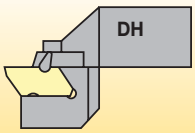
Yandan bağlamalı, merkezden kaçık



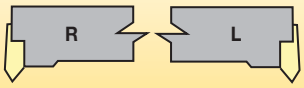
Yandan bağlamalı, merkezden kaçıklık yok



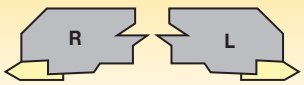
mm olarak şaft yüksekliği ve genişliği ve tutucu



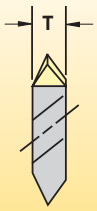
Uçtan bağlamalı



Yandan bağlamalı

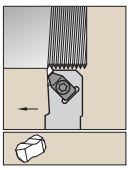


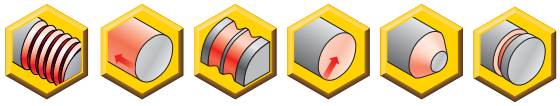
L1	ISO
32	A
40	B
50	C
60	D
70	E
80	F
90	G
100	H
110	J
125	K
140	L
150	M
160	N
170	P
180	Q
200	R
250	S
300	T
350	U
400	V
450	W
500	Y
Özel boy	x

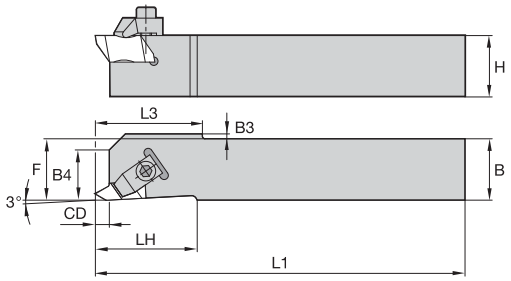


Kesici uç ölçüsü	T
2	3,81
3	4,95
4	6,98
5	9,65
6	9,73
8	11,13

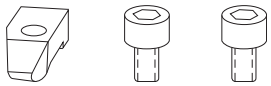
Q — Sartlı tutucu





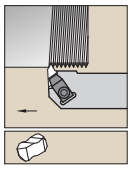


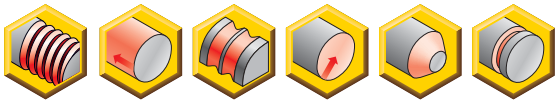
NAS

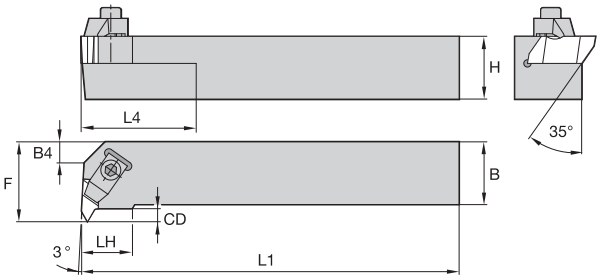


Sipariş numarası	Katalog numarası	H	B	F	L1	LH	B4	CD	B3	L3	Ayar ucu	Çene	Sıkma vidası	Sıkma vidası	Altıgen (mm)/ Torx Plus
Sağ yönlü															
1098788	**NASR1010M2Q**	10	10	10	150	19	9	3,5	2,03	19	N.2R	**CM182**	**MS1200**	**–**	T10
1098789	**NASR1212M2Q**	12	12	12	150	19	9	3,5	–	–	N.2R	**CM182**	**MS1200**	**–**	T10
1098786	**NASR1616K3Q**	16	16	16	125	32	13	5,3	–	–	N.3R	**CM184LP**	**–**	**MS2111**	25 IP
Sol yönlü															
1098859	**NASL1010M2Q**	10	10	10	150	19	9	3,5	2,03	19	N.2L	**CM183**	**MS1200**	**–**	T10
1098860	**NASL1212M2Q**	12	12	12	150	19	9	6,9	–	–	N.2L	**CM183**	**MS1200**	**–**	T10
1098857	**NASL1616K3Q**	16	16	16	125	32	13	5,3	–	–	N.3L	**CM185LP**	**–**	**MS2111**	25 IP

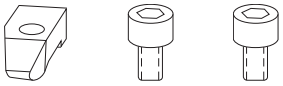
NOT: N tip vida dişi tornalama ucunun keskin ucu üzerinden ölçülen F ölçüsü.





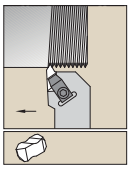


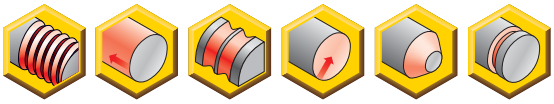
NE

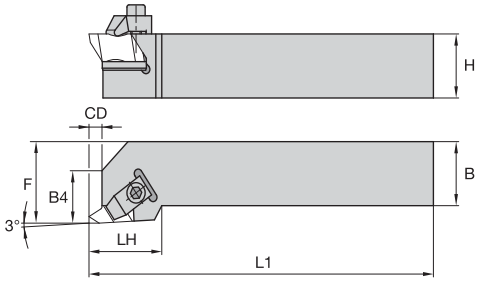


Sipariş numarası	Katalog numarası	H	B	F	L1	LH	CD	L4	Ayar ucu	Çene	Sıkma vidası	Sıkma vidası	Altıgen (mm)/ Torx Plus
Sağ yönlü													
1098803	**NER1616H2**	16	16	20	100	15	3,5	–	N.2L	**CM75**	**MS1200**	**–**	T10
1098804	**NER2020K2**	20	20	25	125	15	3,5	–	N.2L	**CM75**	**MS1200**	**–**	T10
1098805	**NER2525M2**	25	25	32	150	15	3,5	25,4	N.2L	**CM75**	**MS1200**	**–**	T10
1098806	**NER2525M3**	25	25	32	150	22	5,3	50,8	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098808	**NER2525M4**	25	25	35	150	24	6,4	50,8	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098807	**NER3225P3**	32	25	32	170	22	3,8	50,8	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098809	**NER3225P4**	32	25	35	170	24	6,4	50,8	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098810	**NER3232P4**	32	32	40	170	24	6,4	50,8	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
Sol yönlü													
1098874	**NEL1616H2**	16	16	20	100	15	3,5	–	N.2R	**CM74**	**MS1200**	**–**	T10
1098875	**NEL2020K2**	20	20	25	125	15	3,5	–	N.2R	**CM74**	**MS1200**	**–**	T10
1098876	**NEL2525M2**	25	25	32	150	15	3,5	25,4	N.2R	**CM74**	**MS1200**	**–**	T10
1098877	**NEL2525M3**	25	25	32	150	22	5,3	50,8	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098879	**NEL2525M4**	25	25	35	150	24	6,4	50,8	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098878	**NEL3225P3**	32	25	32	170	22	3,8	50,8	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098880	**NEL3225P4**	32	25	35	170	24	6,4	50,8	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098881	**NEL3232P4**	32	32	40	170	24	6,4	50,8	N.4R	**CM72LP**	**–**	**MS2111**	25 IP

NOT: F boyutu Top Notch tipi vida dişi tornalama ucu keskin uç noktasından ölçülür.





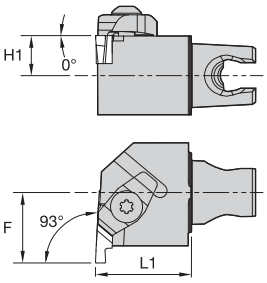


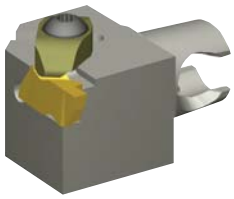
NS



Sipariş numarası	Katalog numarası	H	B	F	L1	LH	B4	CD	Ayar ucu	Çene	Sıkma vidası	Sıkma vidası	Altıgen (mm)/ Torx Plus
Sağ yönlü													
1098790	**NSR1010E2**	10	10	14	70	19	9	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098791	**NSR1212F2**	12	12	16	80	19	9	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098792	**NSR1616H2**	16	16	20	100	19	9	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098793	**NSR2020K2**	20	20	25	125	19	9	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098795	**NSR2020K3**	20	20	25	125	32	13	5,3	N.3R	**CM72LP**	–	**MS2111**	25 IP
1098794	**NSR2525M2**	25	25	32	150	19	9	3,5	N.2R	**CM74**	**MS1200**	–	T10
1098796	**NSR2525M3**	25	25	32	150	32	13	5,3	N.3R	**CM72LP**	–	**MS2111**	25 IP
1098799	**NSR2525M4**	25	25	32	150	35	14	7,5	N.4R	**CM72LP**	–	**MS2111**	25 IP
1098797	**NSR3225P3**	32	25	32	170	32	13	5,3	N.3R	**CM72LP**	–	**MS2111**	25 IP
1098800	**NSR3225P4**	32	25	32	170	35	14	7,5	N.4R	**CM72LP**	–	**MS2111**	25 IP
1098798	**NSR3232P3**	32	32	40	170	32	13	5,3	N.3R	**CM72LP**	–	**MS2111**	25 IP
1098801	**NSR3232P4**	32	32	40	170	35	14	7,5	N.4R	**CM72LP**	–	**MS2111**	25 IP
Sağ yönlü													
1098861	**NSL1010E2**	10	10	14	70	19	9	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098862	**NSL1212F2**	12	12	16	80	19	9	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098863	**NSL1616H2**	16	16	20	100	19	9	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098864	**NSL2020K2**	20	20	25	125	19	9	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098866	**NSL2020K3**	20	20	25	125	32	13	5,3	N.3L	**CM73LP**	–	**MS2111**	25 IP
1098865	**NSL2525M2**	25	25	32	150	19	9	3,5	N.2L	**CM75**	**MS1200**	–	T10
1098867	**NSL2525M3**	25	25	32	150	32	13	5,3	N.3L	**CM73LP**	–	**MS2111**	25 IP
1098870	**NSL2525M4**	25	25	32	150	35	14	7,5	N.4L	**CM73LP**	–	**MS2111**	25 IP
1098868	**NSL3225P3**	32	25	32	170	32	13	5,3	N.3L	**CM73LP**	–	**MS2111**	25 IP
1098871	**NSL3225P4**	32	25	32	170	35	14	7,5	N.4L	**CM73LP**	–	**MS2111**	25 IP
1098869	**NSL3232P3**	32	32	40	170	32	13	5,3	N.3L	**CM73LP**	–	**MS2111**	25 IP
1098872	**NSL3232P4**	32	32	40	170	35	14	7,5	N.4L	**CM73LP**	–	**MS2111**	25 IP

NOT: F boyutu Top Notch tipi vida dişi tornalama ve kanal açma ucu keskin uç noktasından ölçülür.

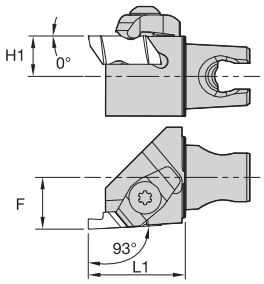


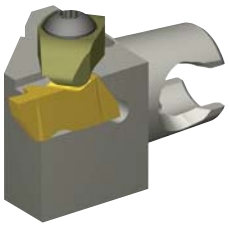


NE 93°

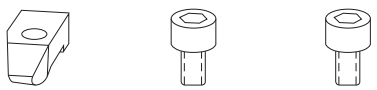


Sipariş numarası	Katalog numarası	L1	F	H1	Ayar ucu	Çene	Sıkma vidası	Sıkma vidası
Sağ yönlü								
2399462	**KM25NER230**	30	22	12,5	NG2L	**CM75**	**–**	**MS1200**
2399494	**KM25NER330**	30	22	12,5	NG3L	**CM73LP**	**MS2111**	**–**
2399496	**KM25NER430**	30	24	12,5	NG4L	**CM73LP**	**MS2111**	**–**
Sol yönlü								
2399495	**KM25NEL330**	30	22	12,5	NG3R	**CM72LP**	**MS2111**	**–**
2399497	**KM25NEL430**	30	24	12,5	NG4R	**CM72LP**	**MS2111**	**–**



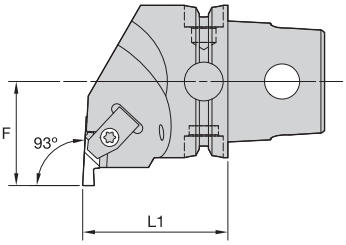


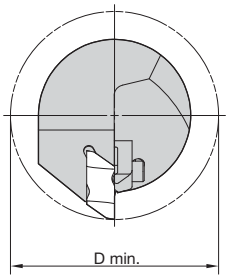
NS 93°

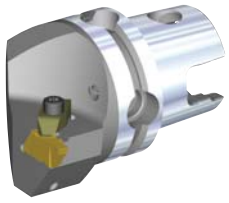


Sipariş numarası	Katalog numarası	L1	F	H1	Ayar ucu	Çene	Sıkma vidası	Sıkma vidası
Sağ yönlü								
2399498	**KM25NSR230**	30	16	12,5	NG2R	**CM74**	**–**	**MS1200**
2399500	**KM25NSR330**	30	16	12,5	NG3R	**CM72LP**	**MS2111**	**–**
Sol yönlü								
2399499	**KM25NSL230**	30	16	12,5	NG2L	**CM75**	**–**	**MS1200**
2399501	**KM25NSL330**	30	16	12,5	NG3L	**CM73LP**	**MS2111**	**–**
2399503	**KM25NSL430**	30	16	12,5	NG4L	**CM213LP**	**MS2111**	**–**



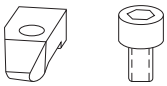




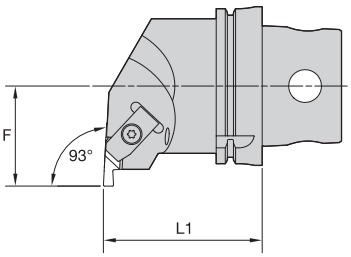


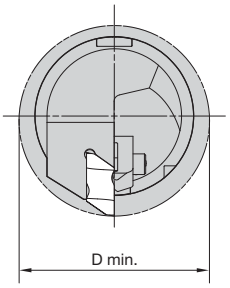
KM QUICK CHANGE

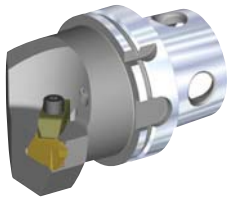
NE 93°



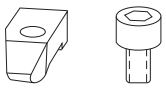
Sipariş numarası	Katalog numarası	L1 mm	L1 inç	F mm	F inç	D min. mm	D min. inç	Ayar ucu	Çene	Sıkma vidası	kg	lbs
Sağ yönlü												
3902285	**KM40TSNER2**	40	1.575	27	1.063	54	2.126	NG2L	**CM75**	**MS1488**	0,30	.66
3902286	**KM40TSNER3**	40	1.575	27	1.063	54	2.126	NG3L	**CM73**	**MS1489**	0,30	.67
3902287	**KM40TSNER4**	40	1.575	27	1.063	54	2.126	NG4L	**CM73**	**MS1489**	0,30	.65
Sol yönlü												
3902132	**KM40TSNEL2**	40	1.575	27	1.063	54	2.126	NG2R	**CM74**	**MS1488**	0,30	.66
3902283	**KM40TSNEL3**	40	1.575	27	1.063	54	2.126	NG3R	**CM-72**	**MS1489**	0,30	.67
3902284	**KM40TSNEL4**	40	1.575	27	1.063	54	2.126	NG4R	**CM-72**	**MS1489**	0,30	.65





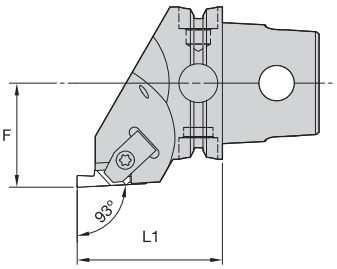


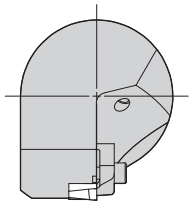
NE

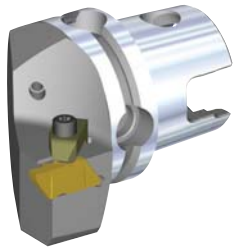


Sipariş numarası	Katalog numarası	L1 mm	L1 inç	F mm	F inç	D min. mm	D min. inç	Ayar ucu	Çene	Sıkma vidası	kg	lbs
Sağ yönlü												
5337758	**KM4X100NER3**	100	3.937	63	2.480	120	4.724	NG3L	**CM73**	**MS1489**	4,45	9.80
5337759	**KM4X100NER4**	100	3.937	63	2.480	120	4.724	NG4L	**CM73**	**MS1489**	4,51	9.93
5337770	**KM4X100NER5**	100	3.937	63	2.480	120	4.724	NG5L	**CM81**	**MS1490**	4,65	10.25
5337771	**KM4X100NER6**	100	3.937	63	2.480	120	4.724	NG6L	**CM121**	**MS1489**	4,48	9.88
Sol yönlü												
5337754	**KM4X100NEL3**	100	3.937	63	2.480	120	4.724	NG3R	**CM-72**	**MS1489**	4,45	9.80
5337755	**KM4X100NEL4**	100	3.937	63	2.480	120	4.724	NG4R	**CM-72**	**MS1489**	4,51	9.93
5337756	**KM4X100NEL5**	100	3.937	63	2.480	120	4.724	NG5R	**CM80**	**MS1490**	4,65	10.25
5337757	**KM4X100NEL6**	100	3.937	63	2.480	120	4.724	NG6R	**CM120**	**MS1489**	4,48	9.88



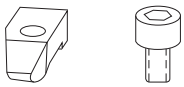






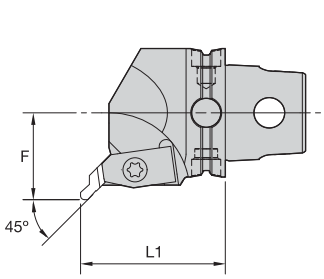
KM QUICK CHANGE

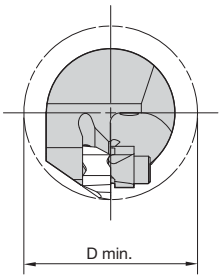
NS 93°

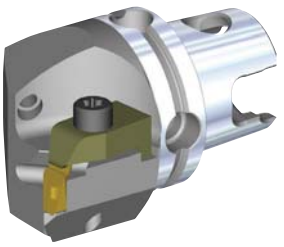


Sipariş numarası	Katalog numarası	L1 mm	L1 inç	F mm	F inç	Ayar ucu	Çene	Sıkma vidası	kg	lbs
Sağ yönlü										
3902293	**KM40TSNSR2**	40	1.575	27	1.063	NG2R	**CM74**	**MS1488**	0,32	.70
3902294	**KM40TSNSR3**	47	1.850	27	1.063	NG3R	**CM-72**	**MS1489**	0,32	.71
3902295	**KM40TSNSR4**	47	1.850	27	1.063	NG4R	**CM-72**	**MS1489**	0,30	.66
Sol yönlü										
3902290	**KM40TSNSL2**	40	1.575	27	1.063	NG2L	**CM75**	**MS1488**	0,32	.70
3902291	**KM40TSNSL3**	47	1.850	27	1.063	NG3L	**CM73**	**MS1489**	0,33	.72
3902292	**KM40TSNSL4**	47	1.850	27	1.063	NG4L	**CM73**	**MS1489**	0,30	.66



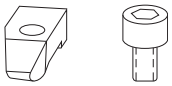






KM QUICK CHANGE

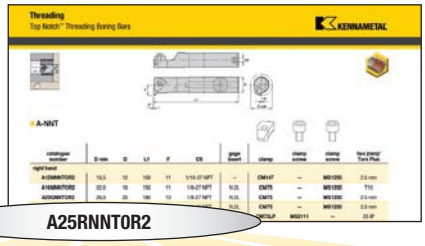
NR 45°



Sipariş numarası	Katalog numarası	L1 mm	L1 inç	F mm	F inç	D min. mm	D min. inç	Ayar ucu	Çene	Sıkma vidası	kg	lbs
Sağ yönlü												
3902289	**KM40TSNRR3045M**	45	1.772	27	1.063	54	2.126	NU3L	**CM73**	**MS1489**	0,34	.75
Sol yönlü												
3902288	**KM40TSNRL3045M**	45	1.772	27	1.063	54	2.126	NU3R	**CM-72**	**MS1489**	0,33	.74

Katalog numaraları nasıl kullanılır ?

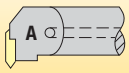
Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



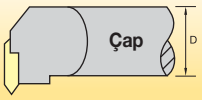
A25RNNT0R2

A	25	R	N	N	T	0	R	2
Bara tipi	Bara çapı	Bara boyu	Kesici uç Baglama Yöntem	Kesici uç şekli	Kesici uç konumu	Talaş açısı 0 = 0°	Takım yönü	Kesici uç Ölçü

A — İçten soğutmalı çelik

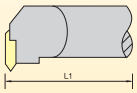


25 — Milimetre olarak bara

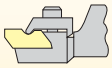


R — Delik işleme baraları

K	=	125,0mm
M	=	150,0mm
Q	=	180,0mm
R	=	200,0mm
S	=	250,0mm
T	=	300,0mm
U	=	350,0mm



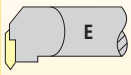
N — Top Notch*



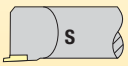
* Sadece tescilli standart.

N — Kesici uç şekli

T — Uçtan bağlamalı

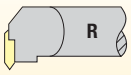


Yandan bağlamalı



0 — Talaş açısı 0 = 0°

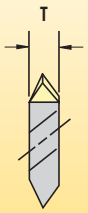
R — Sağ yönlü



Sol yönlü



2 — Kesici uç Ölçü



Kesici uç ölçüsü	T
2	3,81
3	4,95
4	6,98
5	9,65
6	9,73
8	11,13

Beyond™ Top Notch™ Profil işleme



Top Notch yüksek verimlilikte kanıtlanmış bir çözümdür. Top Notch sistemi mükemmel hassas son işlemeli yüzey elde etmek için tutarlı takım performansı, hassas değiştirme ve üstün bağlama ve ayrıca uzun takım ömrü sağlar.

ÖZELLIKLER VE AVANTAJLAR

Daha yüksek verimlilik ve kazanç sağlama

- Düşük kesme kuvvetleri hızı artırır ve çevrim süresini kısaltır.
- Uzun takım ömrü.

Güvenilirlik

- Öngörülebilir takım ömrü/ Tekdüze aşınma.
- Talaş akışı hasarına karşı dayanıklıdır.
- Tutarlı yüzey pürüzlülüğü.

Çok yönlülük

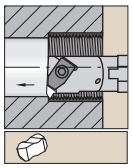
- Ürünler, geniş bir uygulama alanında kullanılabilir.
- Düşük hızdan yüksek hıza kadar olan uygulamalarda kullanılır.
- Tam kapsamlı ürün programı.
- Çelik, dökme demir, paslanmaz çelik ve ısıl dirençli alaşımların hassas son ve kaba tornalama işlemlerinde kullanılır.



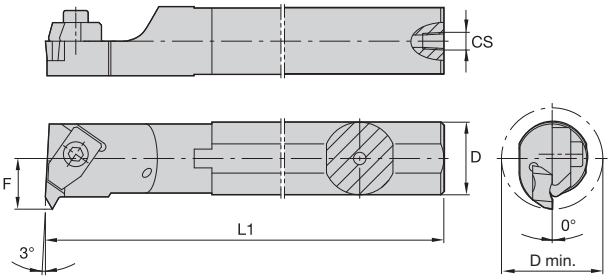
Yetkili Kennametal bayisindeki ya da **kennametal.com** adresindeki avantajlardan yaralanın.

KENNAMETAL®

kennametal.com

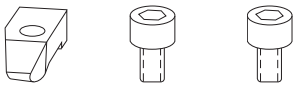


İçten soğutmalı çelik şaft.



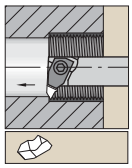


A-NNT

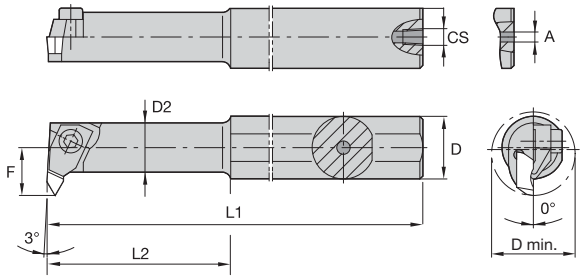


Sipariş numarası	Katalog numarası	D min.	D	L1	F	CS	Ayar ucu	Çene	Sıkma vidası	Sıkma vidası	Altıgen (mm)/ Torx Plus
Sağ yönlü											
1098945	**A12MNNTOR2**	18,5	12	150	11	1/16-27 NPT	–	**CM147**	–	**MS1200**	2.5 mm
1098947	**A16MNNTOR2**	22,0	16	150	11	1/8-27 NPT	N.2L	**CM75**	–	**MS1200**	T10
1098949	**A20QNNTOR2**	26,0	20	180	13	1/8-27 NPT	N.2L	**CM75**	–	**MS1200**	2.5 mm
1098951	**A25RNNTOR2**	34,0	25	200	17	1/4-18 NPT	N.2L	**CM75**	–	**MS1200**	2.5 mm
1098953	**A25RNNTOR3**	34,0	25	200	17	1/8 - 27 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1098955	**A32SNNTOR3**	44,0	32	250	22	1/4-18 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1098957	**A40TNNTOR3**	54,0	40	300	27	1/4-18 NPT	N.3L	**CM73LP**	**MS2111**	–	25 IP
1099001	**A40TNNTOR4**	54,0	40	300	27	1/4-18 NPT	N.4L	**CM73LP**	**MS2111**	–	25 IP
1099003	**A50UNNTOR4**	70,0	50	350	35	1/4-18 NPT	N.4L	**CM73LP**	**MS2111**	–	25 IP
Sol yönlü											
1098946	**A12MNNTOL2**	18,5	12	150	11	1/16-27 NPT	NG2R	**CM146**	–	**MS1200**	2.5 mm
1098948	**A16MNNTOL2**	22,0	16	150	11	1/8-27 NPT	N.2R	**CM74**	–	**MS1200**	T10
1098950	**A20QNNTOL2**	26,0	20	180	13	1/8-27 NPT	NG2R	**CM74**	–	**MS1200**	2.5 mm
1098952	**A25RNNTOL2**	34,0	25	200	17	1/4-18 NPT	N.2R	**CM74**	–	**MS1200**	2.5 mm
1098954	**A25RNNTOL3**	34,0	25	200	17	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1098956	**A32SNNTOL3**	44,0	32	250	22	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1098958	**A40TNNTOL3**	54,0	40	300	27	1/4-18 NPT	N.3R	**CM72LP**	**MS2111**	–	25 IP
1099002	**A40TNNTOL4**	54,0	40	300	27	1/4-18 NPT	N.4R	**CM72LP**	**MS2111**	–	25 IP

NOT: Minimum delik çapı (D min.) kapasitesi vida dişi tipi ve hatvesine göre değişir. Ayrıntılar için sayfa D102' e bakınız.
NG tip kanal açma kesici ucun keskin ucu üzerinden ölçülen F ölçüsü.

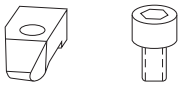


İçten soğutmalı boyunlu çelik şaft.



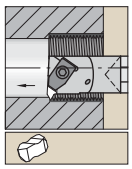


A-NNT -1

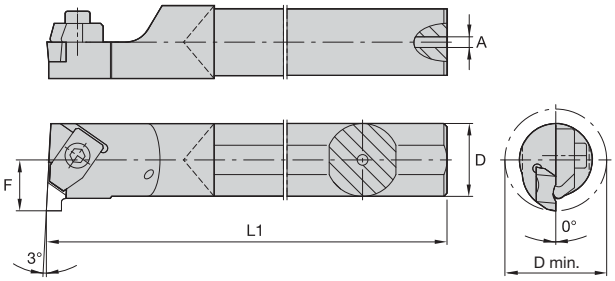


Sipariş numarası	Katalog numarası	D min.	D	HDD	L1	L2	F	A	CS	Ayar ucu	Çene	Sıkma vidası	Altıgen (mm)
Sağ yönlü													
1098943	**A10KNNTOR1**	11,5	10	10,0	125	–	7	3,2	–	NG1L	**CM109**	**MS1034**	1.5 mm
1098944	**A12MNNTOR1**	11,5	12	10,0	150	31,30	7	4,0	1/16-27 NPT	N.1L	**CM109**	**MS1034**	1.5 mm

NOT: Top Notch tipi vida dişi tornalama ucunun keskin ucu üzerinden ölçülen F ölçüsü.

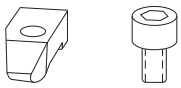


İçten soğutmalı karbür şaft.





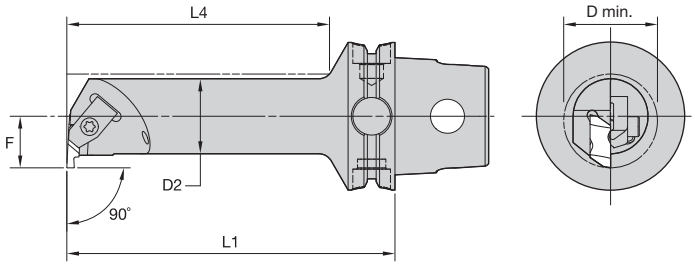
E-NNT

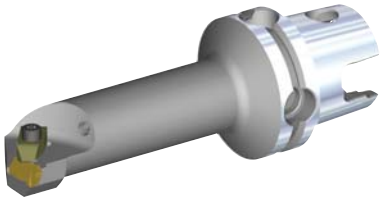


Sipariş numarası	Katalog numarası	D min.	D	L1	F	A	Ayar ucu	Çene	Sıkma vidası	Torx/ Torx Plus
Sağ yönlü										
1152834	**E16RNNTOR2**	22	16	200	11	5,5	N.2L	**CM75**	**MS1200**	T10
1152836	**E20SNNTOR2**	26	20	250	13	7,1	N.2L	**CM75**	**MS1200**	T10
Sol yönlü										
1152835	**E16RNNTOL2**	22	16	200	11	5,5	N.2R	**CM74**	**MS1200**	T10

NOT: Minimum delik çapı (D min.) kapasitesi vida dişi tipi ve hatvesine göre değişir. Ayrıntılar için sayfa D102' e bakınız.
Top Notch tipi vida dişi tornalama ucunun keskin ucu üzerinden ölçülen F ölçüsü.







KM QUICK CHANGE

NE 90° • Çelik

Sipariş numarası	Katalog numarası	D2 mm	D2 inç	D min. mm	D min. inç	F mm	F inç	L4 mm	L4 inç	L1 mm	L1 inç	Ayar ucu	kg	lbs
Sağ yönlü														
3955481	**KM40TSS12ENER2**	12	.472	19	.73	11	.433	42	1.655	70	2.756	NG2L	0,27	.58
3955483	**KM40TSS16FNER2**	16	.630	20	.79	11	.433	56	2.209	80	3.150	NG2L	0,28	.62
3955485	**KM40TSS20GNER2**	20	.787	25	.98	13	.512	70	2.757	90	3.543	NG2L	0,35	.76
3955487	**KM40TSS25ENER2**	25	.984	32	1.26	17	.669	55	2.169	70	2.756	NG2L	0,34	.75
3955491	**KM40TSS25ENER3**	25	.984	34	1.34	17	.669	55	2.169	70	2.756	NG3L	0,35	.77
3955489	**KM40TSS25HNER2**	25	.984	32	1.26	17	.669	75	2.954	100	3.937	NG2L	0,49	1.08
3955493	**KM40TSS25HNER3**	25	.984	34	1.34	17	.669	75	2.954	100	3.937	NG3L	0,49	1.09
3955497	**KM40TSS32GNER3**	32	1.260	40	1.57	22	.866	76	2.993	90	3.543	NG3L	0,55	1.21
3955495	**KM40TSS32JNER3**	32	1.260	40	1.57	22	.866	96	3.780	110	4.331	NG3L	0,67	1.48
Sol yönlü														
3955480	**KM40TSS12ENEL2**	12	.472	19	.73	11	.433	42	1.655	70	2.756	NG2R	0,27	.59
3955482	**KM40TSS16FNEL2**	16	.630	20	.79	11	.433	56	2.209	80	3.150	NG2R	0,28	.62
3955484	**KM40TSS20GNEL2**	20	.787	25	.98	13	.512	70	2.757	90	3.543	NG2R	0,35	.76
3955486	**KM40TSS25ENEL2**	25	.984	32	1.26	17	.669	55	2.169	70	2.756	NG2R	0,34	.75
3955490	**KM40TSS25ENEL3**	25	.984	34	1.34	17	.669	55	2.169	70	2.756	NG3R	0,35	.77
3955492	**KM40TSS25HNEL3**	25	.984	34	1.34	17	.669	75	2.954	100	3.937	NG3R	0,49	1.09
3955496	**KM40TSS32GNEL3**	32	1.260	40	1.57	22	.866	76	2.993	90	3.543	NG3R	0,55	1.21

(devamı)

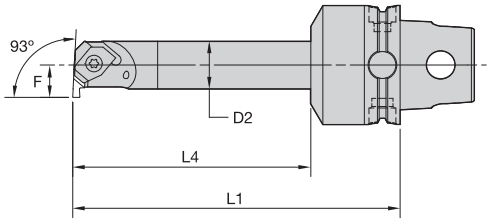
(NE 90° • Çelik — devamı)

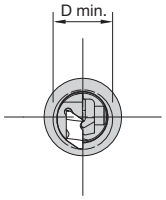
Yedek parçalar

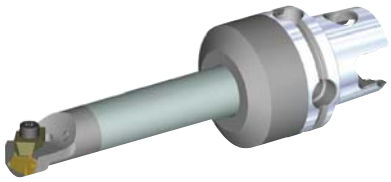



Katalog numarası	Çene	Sıkma vidası
Sağ yönlü		
KM40TSS12ENER2	CM147	MS1488
KM40TSS16FNER2	CM147	MS1488
KM40TSS20GNER2	CM75	MS1488
KM40TSS25ENER2	CM75	MS1488
KM40TSS25ENER3	CM73	MS1489
KM40TSS25HNER2	CM75	MS1488
KM40TSS25HNER3	CM73	MS1489
KM40TSS32GNER3	CM73	MS1489
KM40TSS32JNER3	CM73	MS1489
Sol yönlü		
KM40TSS12ENEL2	CM146	MS1488
KM40TSS16FNEL2	CM146	MS1488
KM40TSS20GNEL2	CM74	MS1488
KM40TSS25ENEL2	CM74	MS1488
KM40TSS25ENEL3	CM-72	MS1489
KM40TSS25HNEL3	CM-72	MS1489
KM40TSS32GNEL3	CM-72	MS1489









KM QUICK CHANGE

NE 90° • Karbür

Sipariş numarası	Katalog numarası	D2 mm	D2 inç	D min. mm	D min. inç	F mm	F inç	L4 mm	L4 inç	L1 mm	L1 inç	Ayar ucu	kg	lbs
Sağ yönlü														
3951836	**KM40TSE16JNER2**	16	.630	20	.79	11	.433	80	3.15	110	4.331	NG2L	0,41	.90
Sol yönlü														
3951835	**KM40TSE16JNEL2**	16	.630	20	.79	11	.433	80	3.15	110	4.331	NG2R	0,41	.90

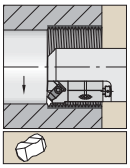
Yedek parçalar

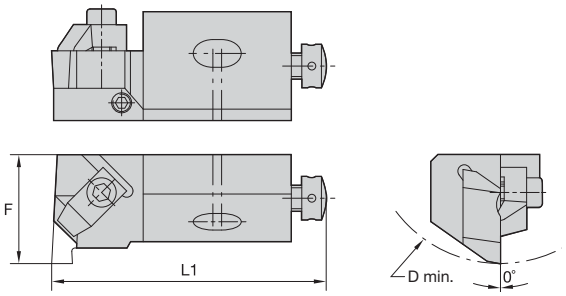




Katalog numarası	Çene	Sıkma vidası
Sağ yönlü		
KM40TSE16JNER2	**CM146**	**MS1488**
Sol yönlü		
KM40TSE16JNEL2	**CM147**	**MS1488**





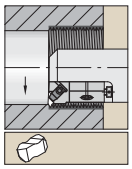


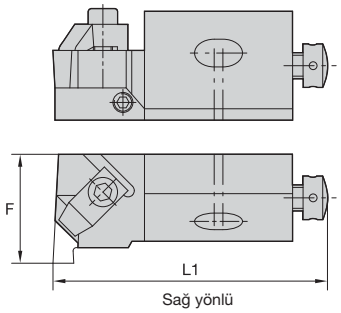
Çelik delik işleme kartuşu



Sipariş numarası	Katalog numarası	D min.	F	L1	Ayar ucu	Çene	Sıkma vidası	Altıgen (mm)	Radyal ayarlama vidası	Altıgen (mm)	Eksensel vida	Altıgen (mm)	Yaylı halka
Sağ yönlü													
1098380	**NER12CA2**	50	20	55,7	N.2L	**CM75**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
Sol yönlü													
1098624	**NEL12CA2**	50	20	55,0	N.2R	**CM74**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
1098626	**NEL25CA3**	100	32	100,0	N.3R	**CM72LP**	**MS412**	4 mm	**KUAM26**	4 mm	**KUAM33**	4 mm	**CSWM 100 080**

NOT: Minimum delik çapı (D min.) kapasitesi vida dişi tipine ve hatvesine göre değişir. Ayrıntılar için sayfa D102'e bakınız.
Top Notch tip vida dişi tornalama ucunun keskin ucu üzerinden ölçülen F ölçüsü.







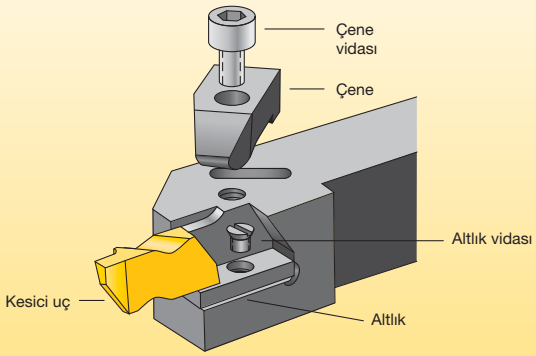
Çelik delik işleme kartuşu



Sipariş numarası	Katalog numarası	D min.	F	L1	Ayar ucu	Çene	Sıkma vidası	Altıgen (mm)	Radyal ayarlama vidası	Altıgen (mm)	Eksensel vida	Altıgen (mm)	Yaylı halka
Sağ yönlü													
1098380	**NER12CA2**	50	20	55,7	N.2L	**CM75**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
Sol yönlü													
1098624	**NEL12CA2**	50	20	55,0	N.2R	**CM74**	**MS1025**	2.5 mm	**KUAM23**	2.5 mm	**KUAM31**	2.5 mm	**CSWM 060 050**
1098626	**NEL25CA3**	100	32	100,0	N.3R	**CM72LP**	**MS412**	4 mm	**KUAM26**	4 mm	**KUAM33**	4 mm	**CSWM 100 080**

NOT: Minimum delik çapı (D min.) kapasitesi vida dişi tipine ve hatvesine göre değişir. Ayrıntılar için sayfa D102'e bakınız.
Top Notch tip vida dişi tornalama ucunun keskin ucu üzerinden ölçülen F ölçüsü.

Takım tutucular ve Delik işleme baraları



Kesici uç ölçüsü ve tipi	Çene	Sıkma vidası	Altlık	Altlık vidası
NG-1L	CM-109	S-304	–	–
NG-2R	CM-182	S-310	–	–
NG-2L	CM-183	S-310	–	–
NG-2R	CM-74	S-310	–	–
NG-2L	CM-75	S-310	–	–
NG-3R	CM-184	S-412	–	–
NG-3L	CM-185	S-412	–	–
NG-3R	CM-72	S-412	–	–
NG-3L	CM-73	S-412	–	–
NG-3R*	CM-78	S-412	–	–
NG-3L*	CM-70	S-412	–	–
NG-4R	CM-72	S-412	SM-420	SL-344
NG-4L	CM-73	S-412	SM-420	SL-344
NG-5R	CM-80	S-352	–	–
NG-5L	CM-81	S-352	–	–
NG-6R	CM-120	S-412	SM-416	S-111
NG-6L	CM-121	S-412	SM-416	S-111
NG-8R	CM-144	S-422	SM-419	S-112
NG-8L	CM-145	S-422	SM-419	S-112
NG-8R**	CM-144	S-422	SM-427	S-111
NG-8L**	CM-145	S-422	SM-427	S-111
Top Notch sırt boşluklu kanal açma				
NU-3125R	CM-72	S-412	–	–
NU-3125L	CM-73	S-412	–	–
NU-3125R**	CM-72	S-618	–	–
NU-3125L**	CM-73	S-618	–	–

* 25mm çap delik işleme kafası.

** Delik işleme kafası.

LT • Yatık konumda vida dişi tornalama için üçgen şekilli uç

Birincil uygulama

Yatık konumda üçgen kesici uçla (LT) vida dişi tornalama, ince hatveli vida dişleri, yüksek helisli ve çok başlangıçlı vida dişleri ve küçük çaplı deliklerde tek uçlu vida dişi tornalamada tercih edilen sistemdir. Geniş kapsamlı CB tip talaş kontrollü kesici uçlar seçimi sayesinde, mükemmel hassas son işlemeli yüzey ve en aza indirgenen operatör müdahalesi için üstün talaş yönetimi elde edilir. Düşük profilli tasarım, iç çap vida dişleri için ideal olan sınırsız talaş akışı sağlar. Değişken altlık açıları, yüksek helis açılı ve ters helis açılı vida dişi tornalama için uygun kesme geometrisi sağlar ve bu da takım ömrünü olabildiğince uzatır ve vida dişi kalitesini artırır.

Özellikler ve Avantajlar

LT ve LT-CB' de hassas taşlanmış vida dişi şekli

- Kesme ağzında talaş yapışmasını en aza indirir.
- Çok yaygın kullanılan malzemeleri kusursuz keser.
- Kesme kuvvetlerini azaltır.
- Güvenilir hassasiyette, yüksek kalite vida dişleri.

KC5010™ ve KC5025™ Premium PVD TiAlN Kaplama kaliteleri

- Mevcut işleme koşullarında takım ömrünü artırır.
- Geleneksel PVD kaliteler kesme hızlarında %30' a varan bir avantaj sağlayarak verimliliği artırır.

Üstün talaş kontrolü

- Uzun, sıkıntı yaratan talaş buklelerini ortadan kaldırır.
- İç çapta vida dişi tornalama işlemleri için mükemmel.
- Yaygın kullanılan tüm vida dişi şekilleri için hem kısmi hem de tam profilli kesici uçlar mevcut.

Kenna Universal™ Kesici uçlar

- Hassas kalıplanmış LT-K vida dişi şekli, olağanüstü fayda ve değer sağlar.
- Mükemmel talaş kontrolü ile KU25T™ kalite birleşimi çeşitli iş parçası malzemelerinde sorunsuz vida dişi tornalama olanağı sağlar.


KENNAMETAL S20SLSER16 NX4

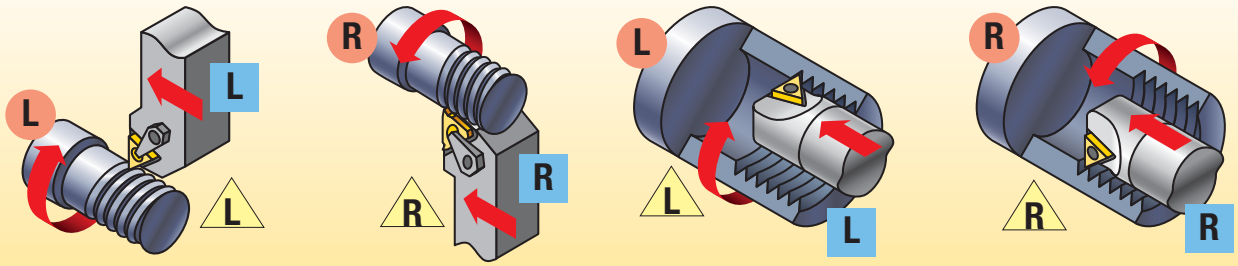
Adım 1 • Vida dişi tornalama yöntemini ve takım yönünü seçme

Gerekli bilgi:
- Dış çap/iç çap işlemi.
- İşmili dönüşü/vida dişi yönü.
- İlerleme yönü.



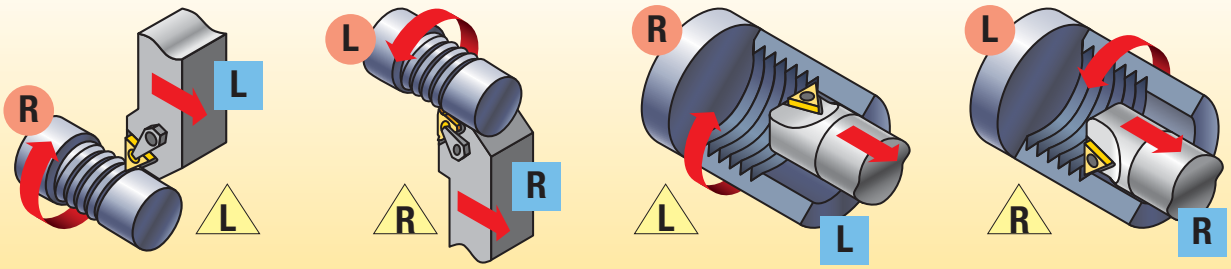
Vida dişi yönü | Takım tutucu yönü | Kesici uç yönü

İlerleme yönü torna aynasına doğru • Standart helis • ÖNERİLEN



Dış çap sol yönlü vida dişi | Dış çap sağ yönlü vida dişi | İç çap sol yönlü vida dişi | İç çap sağ yönlü vida dişi

Torna aynasından uzak ilerleme yönü • Ters helis*



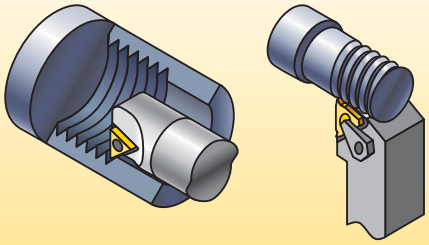
Dış çap sağ yönlü vida dişi | Dış çap sol yönlü vida dişi | İç çap sağ yönlü vida dişi | İç çap sol yönlü vida dişi

** Gerekli negatif altlık*

Adım 2 • Katalog sayfasından tutucu seçme

Gerekli bilgi:
- Dış çap/iç çap işlemi.
- Minimum delik çapı (iç çap işlemleri için).
- Takım yönü.
- Kesici uç ölçüsü (mastar kesici uç).

Kesici uç ölçüsü ve yönü için uygun tutucu seçilir:

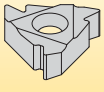


Kesici uç ölçüsünün, seçilen takım tutucuda bulunan mastar kesici uç ölçüsü ile eşleşmesi zorunludur:

Katalog numarası	Mastar kesici uç	Minimum delik çapı	Altlık
S0812LSER2	2IRA60	16,5mm	SM-YI3
S2020LSER3	3IR...	36,8mm	SM-YI3

Adım 3 • Uygulama için kesici uç seçme

- Çap dahil, tam kontrollü vida dişi şekli için konik tepe çapı tornalama uçları seçilir.
- Konik tepe çapı tornalama uçları, çapak alma ihtiyacını ortadan kaldırır ve bunların hatvesi uzun takım ömrü elde etmek için en uygun duruma getirilmiştir.
- Konik tepe çapı oluşmamış kısmi profilli kesici uçlar, tek bir kesici uçla çeşitli vida dişi hatveleri kesme esnekliği sağlar.
- Takım tutucu seçme için kesici uç ölçüsü dikkate alınır.



Kesici uç ölçüsü	Katalog numarası	KCU25/KC5025
11	**2IRA60**	•
16	**3IRAG60**	•

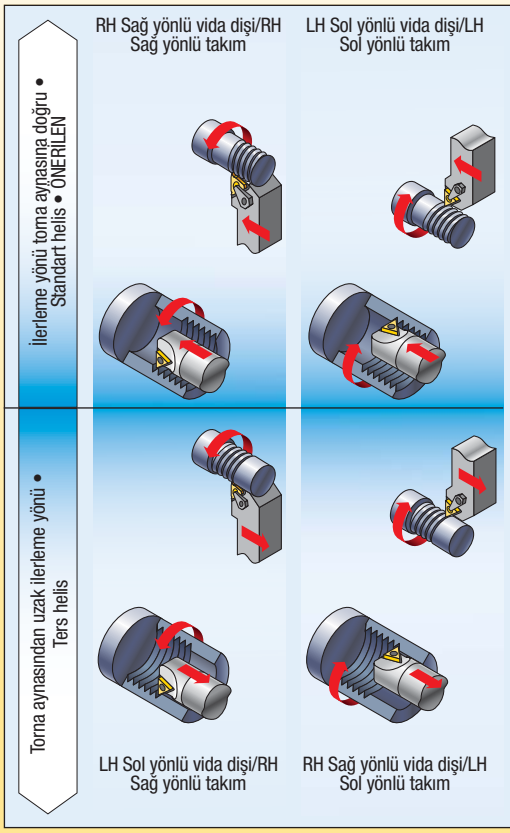
NOT: Sayfa D50' de bulunan vida diş tornalama ucuna genel bakış bölümüne bakınız.

Adım 4 • Uygun altlık seçme

Gerekli bilgi:

- Vida dişi şekli (TPI veya Hatve).
- Bölüm dairesi çapı (Hatve çapı).
- Helis yöntemi (takım yönü, ilerleme yönü, vida dişi yönü).
- Başlangıç sayısı.

Uygun altlık seçme: SMYE... dış çap RH veya iç çap LH için
SMYI... iç çap RH veya dış çap LH için

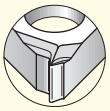
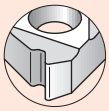
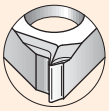
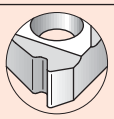


insert size	toolholder external	toolholder internal	shim ordering code (inch) SM–YE3–3P	SM–YE3–2P	SM–YE3–1P	SM–YE3 standard	SM–YE3–1N	SM–YE3–1.5N	SM–YE3–2N	SM–YE3–3N
3 (3/8")	RH	LH								
3 (3/8")	LH	RH	SM–YI3–3P	SM–YI3–2P	SM–YI3–1P	SM–YI3	SM–YI3–1N	SM–YI3–1.5N	SM–YI3–2N	SM–YI3–3N
4 (1/2")	RH	LH	SM–YE4–3P	SM–YE4–2P	SM–YE4–1P	SM–YE4	SM–YE4–1N	SM–YE4–1.5N	SM–YE4–2N	SM–YE4–3N
4 (1/2")	LH	RH	SM–YI4–3P	SM–YI4–2P	SM–YI4–1P	SM–YI4	SM–YI4–1N	SM–YI4–1.5N	SM–YI4–2N	SM–YI4–3N
TPI		pitch (mm)	pitch diameter (inch)							
72		–	–	–	–	0.12–0.31	0.32–0.84	>0.84	0.84–0.32	0.31–0.12
–		0,35	–	–	–	0.12–0.3	0.31–0.84	>0.84	0.84–0.31	0.3–0.12
64		–	–	–	–	0.14–0.35	0.36–0.95	>0.95	0.95–0.36	0.35–0.14
–		0,40	–	–	–	0.14–0.35	0.36–0.96	>0.96	0.96–0.36	0.35–0.14
56		0,45	–	–	–	0.16–0.4	0.41–1.09	>1.09	1.09–0.41	0.4–0.16
–		0,50	–	–	0.11–0.16	0.17–0.44	0.45–1.2	>1.20	1.2–0.45	0.44–0.17
48		–	–	–	0.12–0.17	0.18–0.46	0.47–1.27	>1.27	1.27–0.47	0.46–0.18
44		–	–	–	0.13–0.19	0.2–0.51	0.52–1.38	>1.38	1.38–0.52	0.51–0.2
–		0,60	–	0.1–0.12	0.13–0.2	0.21–0.53	0.54–1.44	>1.44	1.44–0.54	0.53–0.21
40		–	–	0.11–0.13	0.14–0.21	0.22–0.56	0.57–1.52	>1.52	1.52–0.57	0.56–0.22
–		0,70	–	0.12–0.15	0.16–0.23	0.24–0.62	0.63–1.68	>1.68	1.68–0.63	0.62–0.24
36		–	–	0.12–0.15	0.16–0.23	0.24–0.62	0.63–1.69	>1.69	1.69–0.63	0.62–0.24
–		0,75	0.11–0.12	0.13–0.16	0.17–0.25	0.26–0.66	0.67–1.8	>1.80	1.8–0.67	0.66–0.26
32		–	0.12–0.13	0.14–0.17	0.18–0.26	0.27–0.7	0.71–1.9	>1.90	1.9–0.71	0.7–0.27
–		0,80	0.12–0.13	0.14–0.17	0.18–0.26	0.27–0.71	0.72–1.91	>1.91	1.91–0.72	0.71–0.27
28		–	0.14–0.14	0.15–0.19	0.2–0.3	0.31–0.8	0.81–2.17	>2.17	2.17–0.81	0.8–0.31
27		–	0.14–0.15	0.16–0.2	0.21–0.31	0.32–0.83	0.84–2.25	>2.25	2.25–0.84	0.83–0.32
–		1,00	0.15–0.16	0.17–0.21	0.22–0.33	0.34–0.89	0.9–2.39	>2.39	2.39–0.9	0.89–0.34
24		–	0.16–0.17	0.18–0.23	0.24–0.35	0.36–0.94	0.95–2.53	>2.53	2.53–0.95	0.94–0.36
–		1,25	0.19–0.2	0.21–0.27	0.28–0.42	0.43–1.11	1.12–2.99	>2.99	2.99–1.12	1.11–0.43
20		–	0.19–0.21	0.22–0.27	0.28–0.42	0.43–1.13	1.14–3.04	>3.04	3.04–1.14	1.13–0.43
18		–	0.21–0.23	0.24–0.31	0.32–0.47	0.48–1.26	1.277–3.38	>3.38	3.38–1.27	1.26–0.48
–		1,50	0.22–0.25	0.26–0.33	0.34–0.5	0.51–1.34	1.35–3.59	>3.59	3.59–1.35	1.34–0.51
16		–	0.24–0.26	0.27–0.35	0.36–0.53	0.54–1.41	1.42–3.8	>3.80	3.8–1.42	1.41–0.54
–		1,75	0.26–0.29	0.3–0.38	0.39–0.59	0.6–1.56	1.57–4.19	>4.19	4.19–1.57	1.56–0.6
14		–	0.27–0.3	0.31–0.4	0.41–0.61	0.62–1.62	1.63–4.34	>4.34	4.34–1.63	1.62–0.62
13		–	0.29–0.32	0.33–0.43	0.44–0.66	0.67–1.74	1.75–4.68	>4.68	4.68–1.75	1.74–0.67
–		2,00	0.3–0.33	0.34–0.44	0.45–0.67	0.68–1.78	1.79–4.79	>4.79	4.79–1.79	1.78–0.68
12		–	0.32–0.35	0.36–0.46	0.47–0.71	0.72–1.89	1.9–5.07	>5.07	5.07–1.9	1.89–0.72
11.5		–	0.33–0.37	0.38–0.49	0.5–0.74	0.75–1.97	1.98–5.29	>5.29	5.29–1.98	1.97–0.75
11		–	0.34–0.38	0.39–0.51	0.52–0.78	0.79–2.06	2.07–5.53	>5.53	5.53–2.07	2.06–0.79
–		2,50	0.37–0.42	0.43–0.55	0.56–0.84	0.85–2.23	2.24–5.98	>5.98	5.98–2.24	2.23–0.85
10		–	0.38–0.42	0.43–0.56	0.57–0.86	0.87–2.27	2.28–6.08	>6.08	6.08–2.28	2.27–0.87
9		–	0.42–0.47	0.48–0.62	0.63–0.95	0.96–2.52	2.53–6.75	>6.75	6.75–2.53	2.52–0.96
–		3,00	0.45–0.5	0.51–0.66	0.67–1.02	1.03–2.68	2.69–7.18	>7.18	7.18–2.69	2.68–1.03
8		–	0.47–0.53	0.54–0.7	0.71–1.08	1.09–2.84	2.85–7.6	>7.60	7.6–2.85	2.84–1.09
–		3,50	0.52–0.59	0.6–0.77	0.78–1.19	1.2–3.13	3.14–8.38	>8.38	8.38–3.14	3.13–1.2
7		–	0.524–0.61	0.62–0.8	0.81–1.23	1.24–3.25	3.26–8.68	>8.68	8.68–3.26	3.25–1.24
–		4,00	0.6–0.67	0.68–0.89	0.9–1.36	1.37–3.58	3.59–9.57	>9.57	9.57–3.59	3.58–1.37
6		–	0.63–0.71	0.72–0.94	0.95–1.44	1.45–3.79	3.8–10.13	>10.13	10.13–3.8	3.79–1.45
–		5,00	0.75–0.84	0.85–1.11	1.12–1.7	1.71–4.48	4.49–11.97	>11.97	11.97–4.49	4.48–1.71
5		–	0.76–0.86	0.87–1.13	1.14–1.73	1.74–4.55	4.56–12.16	>12.16	12.16–4.56	4.55–1.74
4.5		–	0.84–0.95	0.96–1.26	1.27–1.92	1.93–5.06	5.07–13.51	>13.51	13.51–5.07	5.06–1.93
–		6,00	0.9–1.01	1.02–1.33	1.34–2.04	2.05–5.37	5.38–14.36	>14.36	14.36–5.38	5.37–2.05
4		–	0.95–1.07	1.08–1.41	1.42–2.16	2.17–5.69	5.7–15.2	>15.20	15.2–5.7	5.69–2.17
inclination angle			4.5	3.5	2.5	1.5	0.5	0.0	-0.5	-1.5
			standard helix (feed toward the chuck)						reverse helix (feed away from the chuck)	

Önerilen altlık, takım tutucu ile sevk edilen altlıktan farklıysa, uygun altlık ayrıca sipariş edilir.
NOT: Doğru kesme derinliği ilerleme açısı ve önerilen kesme derinliği ilerleme değerlerini kullanarak vida dişi tornalama işlemlerinizi en uygun duruma getiriniz. Sayfa D88–D110 Teknik bölüme bakınız.
Ayrıca sayfa D109–D110' de ayrıntılı altlık seçme bilgisine bakınız.

Adım 5 • Kalite ve hız seçme

Kalite ve hız seçme önerileri - m/dk.

	İş parçası malzemesi	P	M	K	N	S
Kenna Perfect™	Kesici uç tipi	CB Talaş kırıcı			CB Talaş kırıcı	
	En uygun duruma getirilmiş kesme koşulları	**KC5010** 70–260	**KC5010** 90–245	**KC5010** 60–245	**KC5010** 90–550	**KC5010** 30–150
	İlk tercih	**KC5025** 50–230	**KC5025** 75–230	**KC5025** 50–180	**KC5025** 60–455	**KC5025** 20–120
Kenna Universal™	Kesici uç tipi	-K Talaş kırıcı				
	Seçme	**KU25T** 45–210	**KU25T** 70–205	**KU25T** 45–160	**KU25T** 55–410	**KU25T** 20–110

NOT: Sayfa D50' de bulunan vida diş tornalama ucuna genel bakış bölümüne bakınız.

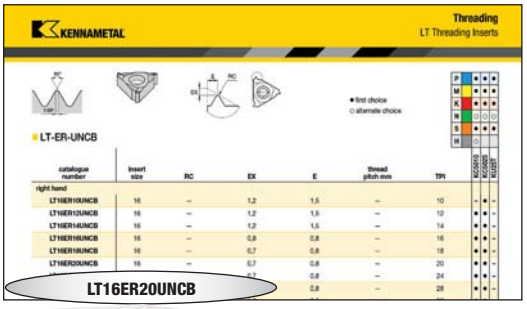
Önerilen başlangıç hızları [m/dk.]

Malzeme grubu		KC5010			KC5025			KU25T		
P	0–1	135	**200**	260	105	**165**	230	95	**150**	210
	2	130	**190**	245	100	**150**	200	90	**135**	180
	3	105	**155**	200	75	**125**	170	70	**115**	155
	4	70	**120**	160	60	**95**	130	55	**85**	115
	5	105	**155**	200	75	**130**	170	70	**115**	155
	6	70	**120**	160	50	**90**	130	45	**80**	115
M	1	120	**180**	245	90	**170**	230	80	**155**	205
	2	90	**165**	210	75	**140**	200	70	**125**	180
	3	90	**165**	210	75	**135**	200	70	**120**	180
K	1	120	**180**	245	90	**135**	180	80	**120**	160
	2	90	**150**	210	70	**120**	170	65	**110**	155
	3	60	**105**	150	50	**85**	120	45	**75**	110
N	1–2	150	**365**	550	120	**305**	455	110	**275**	410
	3	90	**135**	180	60	**105**	150	55	**95**	135
	4	120	**305**	455	100	**200**	305	90	**180**	275
	5	90	**165**	245	70	**135**	195	65	**120**	175
	6	120	**210**	305	100	**170**	245	90	**155**	220
S	1	30	**70**	105	20	**40**	60	20	**35**	55
	2	30	**65**	100	20	**35**	45	20	**30**	40
	3	30	**65**	100	20	**35**	45	20	**30**	40
	4	55	**105**	150	45	**85**	120	40	**75**	110
H	1	30	**45**	60	–	**–**	–	–	**–**	–
	2	15	**30**	45	–	**–**	–	–	**–**	–
	3	–	**–**	–	–	**–**	–	–	**–**	–
	4	–	**–**	–	–	**–**	–	–	**–**	–

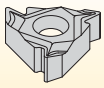
NOT: İLK tercih başlangıç hızları kalın harflerle yazılmıştır.

Katalog numaraları nasıl kullanılır?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.

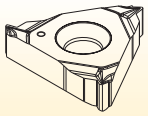


LT	16	ER	20	UN	CB
Kesici uç tipi	Kesme kenarı uzunluğu (ölçü)	Kesici uç yönü	Vida dişi hatvesi	Vida dişi profili	Talaş kontrolü



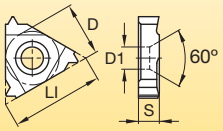
LT = Yatık konumda üçgen kesici uçla vida dişi tornalama

ER = Dış çap sağ yönlü
EL = Dış çap sol yönlü
NR = İç çap sağ yönlü
NL = İç çap sol yönlü



□ = Düz uçlu
CB = Talaş kırıcı
K = Kenna Universal™ Talaş kırıcı

Kesici uç Ölçü	LI (mm)	D (mm)	S (mm)	D1 (mm)
11	11,0	6,35	3,20	3,25
16	16,5	9,52	3,63	3,94
22	22,0	12,70	4,78	4,88



Kısmi profil		
Tanımlama	**Vida dişi hatvesi (mm)**	**TPI**
A	0,50–1,5	48–16
AG	0,50–3,0	48–8
G	1,75–3,0	14–8
N	3,50–5,0	7–5
Tam profil		
Geçerli TPI veya hatve mm olarak tanımlanmıştır	0,5–4,0	48–8

ISO = ISO Metrik 60°
UN = Amerikan UN 60°
60 = Kısmi profil, konik tepe çapı oluşmamış 60°
55 = Kısmi profil, konik tepe çapı oluşmamış 55°
W = Whitworth 55°
BSPT = İngiliz standart boru vida dişi 55°
NPT = Ulusal Amerikan boru vida dişi 60°
ACME = Amerikan Acme
STACME = Amerikan sivri uçlu Acme
TR = Trapez DIN 103
RD = Yuvarlak DIN 405
UNJ = Kontrollü diş taban radyüsü 60°
NPTF = Dryseal 60°
API = Amerikan petrol enstitüsü vida dişleri
BUT = API Testere disli gövde
APIRD = API Yuvarlak



Kennametal LT Yatık konumda vida dişi tornalama avantajı

LT-K Kesici uçlar dışında, her bir 10 adetlik kesici uç kutusunda bir adet bedelsiz Torx anahtar ve yedek bağlama vidası bulunur.

Tip			Vida dişi profili	Standart	Tolerans sınıfı	Konik tepe çapı (tam profil) oluşturma	Uygulama	Sayfa/ Sayfalar
CB	K	Düz uçlu						
 LT-60CB	 LT-60K	 LT-60	Kısmi profil 60°	—	—	N	Konik tepe çapı oluşmamış kesici uçların çeşitli hatveleri kesmesi istendiği yerlerde genel olarak ISO ve UN gibi 60° vida dişi şekilleri kullanılır.	D53–D54, D66–D67
 LT-ISOCB	 LT-ISOK	 LT-ISO	ISO Metrik	ISO R262, DIN 13	6g/6H	Y	Tüm endüstriler için yaygın kullanılan metrik 60° V şekli.	D57–D58, D70–D71
 LT-UNCB	 LT-UNK	 LT-UN	Amerikan UN	ANSI B1.1:74	2A/2B	Y	Tüm endüstriler için yaygın kullanılan inç esaslı 60° V şekli.	D62–D63, D74–D75
		 LT-UNJ	UNJ	MIL-S-8879C	3A/3B	Y	Savunma sanayi, Uçak ve uzay endüstrisi için dış çap vida dişlerinde kontrollü diş tabanı radyüsü, 60° vida dişi şekli.	D63, D75
 LT-NPTCB		 LT-NPT	NPT	USAS B2.1:1968	Standart NPT	Y	Boru bağlantı parçaları için ulusal boru vida dişi standardı 60° vida dişi şekli.	D59, D72
 LT-NPTFCB		 LT-NPTF	NPTF	ANSI B1.20.3-1976	Sınıf 2	Y	Boru baglantı parçaları için Dryseal tip NPT 60° vida disi sekli.	D60, D72
	 LT-55K	 LT-55	Kısmi profil 55°	—	—	N	Konik tepe çapı oluşmamış kesici uçların çeşitli hatveleri kesmesi istendiği yerlerde genel olarak Whitworth, BSW ve BSP gibi 55° vida dişi şekilleri kullanılır.	D52, D65–D66
		 LT-BSPT	BSPT	BS 21:1985	Standart BSPT	Y	Boru bağlantı parçaları için 55° şekli.	D56, D69
 LT-WCB	 LT-WK	 LT-W	Whitworth, BSW, BSF, BSP	BS 84:1956, ISO 228/1:1985, DIN 259	Orta sınıf A	Y	Gaz ve su bağlantıları için yaygın kullanılan 55° şekil.	D64–D65, D76
		 LT-API	API Döner dik kenar bağlantıları	API SPEC. 7:1990	Standart API	Y	V-.038R, V-.040 ve V-.050 şekiller dahil, petrol ve gaz endüstrisinde döner dik kenar boru bağlantıları için 60° V şekli kullanılır.	D55, D68
		 LT-APIRD	API yuvarlak	API STD. 5B:1979	Standart API RD	Y	8 ve 10 yuvarlak sekiller içeren, petrol ve gaz endüstrisinde gövde, boru sistemi ve boru hattı için kullanılan büyük radyüslü 60° V sekli.	D55, D69
		 LT-BUT	API Testere disli gövde	API SPEC. 7:1990	Standart API	Y	Petrol ve gaz endüstrisinde boru gövde baglantıları için 45° testere dis tipli sekil kullanılır.	D56, D69
		 LT-ACME	Acme	ANSI B1.5:1988	3G	N	Çok çeşitli endüstrilerde hareketli uygulamalar için 29° kesikli vida dişi şekli kullanılır.	D54, D68
		 LT-STACME	Keskin uçlu Acme	ANSI B1.8:1988	2G	N	Çok çeşitli endüstrilerde hareketli uygulamalar için sığ derinlikli 29° kesikli vida dişi şekli kullanılır.	D61, D73
		 LT-RD	Yuvarlak	DIN 405	7h/7H	Y	Kimya ve gıda endüstrisinde boru bağlantı parçaları için yuvarlak vida dişi şekli.	D60, D73
		 LT-TR	Trapez	DIN 103	7e/7H	N	Hareketli uygulamalar için 30° kesikli metrik vida dişi şekli.	D61, D73

İnternette Kennametal

kennametal.com

EN SON ÜRÜN BİLGİSİNİ BULUNUZ.

Uygulama şekliniz ister tornalama, frezeleme ister delme ve delik işleme olsun, Kennametal marka yüksek performanslı takımlamaya ihtiyacınız olacaktır. Çok çeşitli uygulamalar için standart ve müşteri odaklı özel çözümler sunuyoruz.

En güncel kampanyalarımız ve kataloglarımızla ilgili bilgiye bakınız.



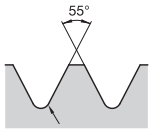
Kennametal in internetten sipariş verilebilen web sitesinin bütün işlevlerindan faydalanmak üzere Konnect' e kaydolun.

BİZE ULAŞIN

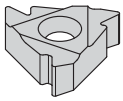
Müşterilerimiz bizim için önemlidir. Size sektördeki en iyi müşteri hizmetini sunmak istiyoruz. Eleştiri veya sorunlarınızı lütfen bize gönderin. Tüm sorulara 24 saat içinde yanıt vermeye çalışıyoruz.

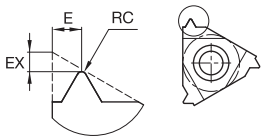
KENDİ BÖLGENİZDE YEREL BİR YETKİLİ KENNAMETAL SATICI VE DAĞITIMCI BAYİSİ BULUNUZ.

Kennametal, küresel olarak dünya standartlarında ürün ve hizmetler sunmaktadır. Satıcı ve dağıtımcı bayilerimiz bizi bilirler ve daha da önemlisi sizi tanırlar. Kennametal' in küresel gücünden sektörünüzde, bölgenizde ve işinizde sizin için nasıl yarar sağlanacağını sektördeki herkesten daha iyi bilirler.



Kısmi profil
55° Dış çap



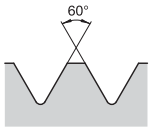


● İlk tercih
○ Alternatif tercih

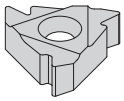
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

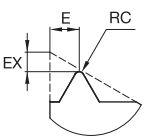
LT-ER/L-55

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ERA55	16	0,05	0,8	0,89	0,50-1,50	16-48	–	●	–
LT16ERAG55	16	0,08	1,2	1,70	0,50-3,00	8-48	●	●	–
16ERG55	16	0,20	1,2	1,70	1,75-3,00	8-14	–	●	–
LT22ERN55	22	0,43	1,7	2,49	3,50-5,00	5-7	–	●	–
Sol yönlü									
LT16ELAG55	16	0,08	1,2	1,70	0,50-3,00	8-48	–	●	–



Kısmi profil
60° Dış çap





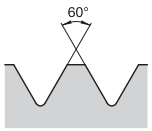


● İlk tercih
○ Alternatif tercih

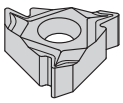
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

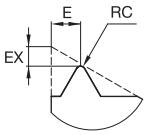
LT-ER/L-60

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ERA60	16	0,05	0,8	0,9	0,50-1,50	16-48	●	●	–
16ERAG60	16	0,08	1,2	1,7	0,50-3,0	8-48	–	●	–
LT16ERAG60	16	0,08	1,2	1,7	0,50-3,0	8-48	●	–	–
LT16ERG60	16	0,28	1,2	1,7	1,75-3,0	8-14	●	●	–
LT22ERN60	22	0,53	1,7	2,5	3,5-5,0	5-7	–	●	–
Sol yönlü									
LT16ELA60	16	0,05	0,8	0,9	0,50-1,50	16-48	–	●	–
LT16ELAG60	16	0,08	1,2	1,7	0,50-3,0	8-48	–	●	–
LT16ELG60	16	0,28	1,2	1,7	1,75-3,0	8-14	–	●	–
LT22ELN60	22	0,53	1,7	2,5	3,5-5,0	5-7	–	●	–



Kısmi profil
60° Dış çap





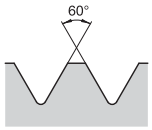


LT-ER-60CB

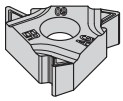
Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ERAG60CB	16	0,08	0,9	1,5	0,50-3,0	8-48	●	●	–

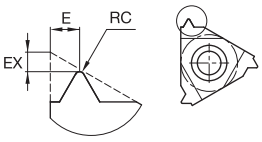
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

● İlk tercih
○ Alternatif tercih



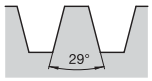
Kısmi profil
60° Dış çap



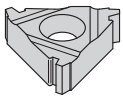


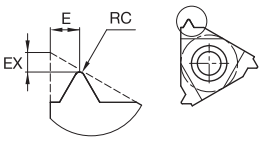
LT-ER-60K

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ERAG60K	16	0,08	1,2	1,7	0,50-3,0	8-48	–	–	●



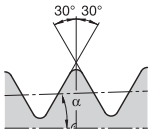
Acme Dış çap





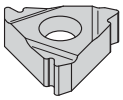
LT-ER/L-ACME

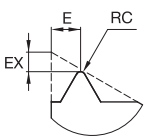
Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER10ACME	16	–	1,3	1,40	–	10	–	●	–
LT16ER12ACME	16	–	1,1	1,19	–	12	–	●	–
LT16ER16ACME	16	–	1,0	1,09	–	16	–	●	–
LT16ER8ACME	16	–	1,4	1,50	–	8	–	●	–
LT22ER5ACME	22	–	2,0	2,29	–	5	–	●	–
LT22ER6ACME	22	–	1,8	2,11	–	6	–	●	–



API Döner dik kenar bağlantıları, dış çap

α = 1/2 arctan (TPF/12)





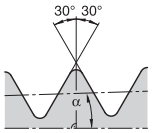


● İlk tercih
○ Alternatif tercih

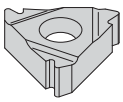
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

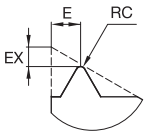
LT-ER/L-API

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT22ER4API382	22	–	2,1	2,79	–	4	–	●	–
LT22ER4API502	22	–	2,0	2,90	–	4	●	●	–
LT22ER4API503	22	–	2,0	2,90	–	4	●	–	–
LT22ER5API403	22	–	1,8	2,60	–	5	●	–	–
LT27ER4API502	28	0,64	2,0	2,79	–	4	–	●	–
LT27ER4API382	28	0,97	2,0	2,79	–	4	–	●	–



API
Yuvarlak-Dış çap

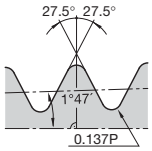




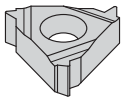


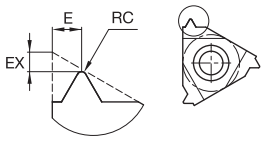
LT-ER/L-APIRD

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER10APIRD	16	–	1,2	1,40	–	10	–	●	–
LT16ER8APIRD	16	–	1,3	1,50	–	8	–	●	–
Sol yönlü									
LT16EL8APIRD	16	–	1,3	1,50	–	8	–	●	–



BSPT-Dış çap



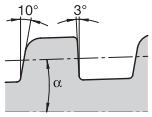


● İlk tercih
○ Alternatif tercih

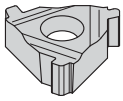
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

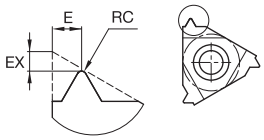
LT-ER/L-BSPT

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER11BSPT	16	–	1,1	1,50	–	11	–	●	–
LT16ER14BSPT	16	–	1,0	1,19	–	14	–	●	–



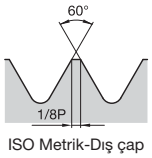
API Kaplamalı boru testere dişi, dış çap
α = 1/2 arctan (TPF/12)



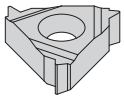


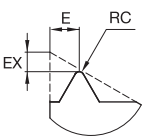
LT-ER/L-BUT

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT22ER5BUT75	22	–	3,1	1,91	–	5	–	●	–



ISO Metrik-Dış çap





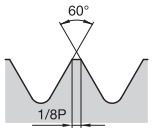


● İlk tercih
○ Alternatif tercih

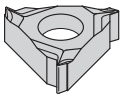
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

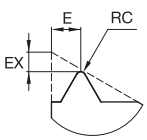
LT-ER/L-ISO

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER05ISO	16	–	0,6	0,4	0,50	–	–	●	–
LT16ER075ISO	16	–	0,6	0,6	0,75	–	–	●	–
LT16ER10ISO	16	–	0,7	0,7	1,0	–	●	●	–
LT16ER125ISO	16	–	0,8	0,9	1,25	–	●	●	–
LT16ER15ISO	16	–	0,8	1,0	1,5	–	●	●	–
LT16ER175ISO	16	–	0,9	1,2	1,75	–	●	●	–
LT16ER20ISO	16	–	1,0	1,3	2,0	–	●	●	–
LT16ER25ISO	16	–	1,1	1,5	2,5	–	●	●	–
LT16ER30ISO	16	–	1,2	1,6	3,0	–	●	●	–
LT22ER35ISO	22	–	1,6	2,3	3,5	–	–	●	–
LT22ER40ISO	22	–	1,6	2,3	4,0	–	–	●	–
LT22ER45ISO	22	–	1,7	2,4	4,5	–	–	●	–
LT22ER50ISO	22	–	1,7	2,5	5,0	–	–	●	–
Sol yönlü									
LT16EL15ISO	16	–	0,8	1,0	1,5	–	●	●	–
LT16EL175ISO	16	–	0,9	1,2	1,75	–	–	●	–
LT16EL20ISO	16	–	1,0	1,3	2,0	–	–	●	–
LT16EL25ISO	16	–	1,1	1,5	2,5	–	–	●	–
LT16EL30ISO	16	–	1,2	1,6	3,0	–	–	●	–
LT16EL05ISO	16	–	0,6	0,4	0,50	–	–	●	–
LT16EL075ISO	16	–	0,6	0,6	0,75	–	–	●	–
LT16EL10ISO	16	–	0,7	0,7	1,0	–	–	●	–
LT16EL125ISO	16	–	0,8	0,9	1,25	–	–	●	–
LT22EL35ISO	22	–	1,6	2,3	3,5	–	–	●	–



ISO Metrik-Dış çap





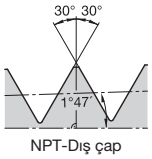


● İlk tercih
○ Alternatif tercih

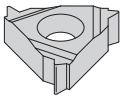
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

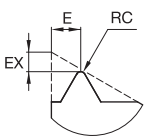
LT-ER-ISOCB

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER05ISOCB	16	–	1,2	0,5	0,50	–	●	●	–
LT16ER075ISOCB	16	–	1,2	0,6	0,75	–	●	●	–
LT16ER10ISOCB	16	–	0,7	0,8	1,0	–	●	●	–
LT16ER125ISOCB	16	–	0,7	0,8	1,25	–	●	●	–
LT16ER15ISOCB	16	–	0,7	0,8	1,5	–	●	●	–
LT16ER175ISOCB	16	–	1,2	1,5	1,75	–	●	●	–
LT16ER20ISOCB	16	–	1,2	1,5	2,0	–	●	●	–
LT16ER25ISOCB	16	–	1,2	1,5	2,5	–	–	●	–
LT16ER30ISOCB	16	–	1,3	1,5	3,0	–	●	●	–



NPT-Dış çap





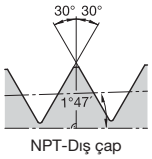


P	●
M	●
K	●
N	○
S	●
H	○

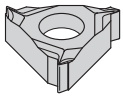
● İlk tercih
○ Alternatif tercih

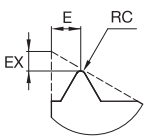
LT-ER/L-NPT

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER115NPT	16	–	1,1	1,5	–	11.5	●	●	–
LT16ER14NPT	16	–	0,9	1,2	–	14	●	●	–
LT16ER18NPT	16	–	0,8	1,0	–	18	●	●	–
LT16ER27NPT	16	–	0,7	0,8	–	27	–	●	–
LT16ER8NPT	16	–	1,3	1,8	–	8	–	●	–



NPT-Dış çap





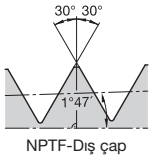


LT-ER-NPTCB

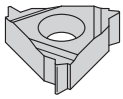
Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER14NPTCB	16	–	1,1	1,5	–	14	●	●	–

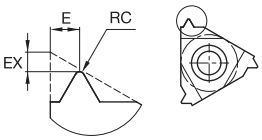
● İlk tercih
○ Alternatif tercih

P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		



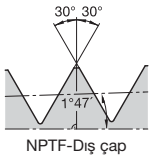
NPTF-Dış çap



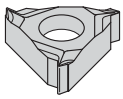


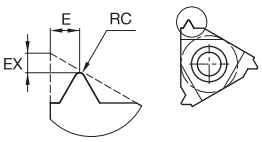
LT-ER/L-NPTF

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER115NPTF	16	–	1,1	1,5	–	11.5	–	●	–
LT16ER14NPTF	16	–	0,9	1,2	–	14	–	●	–



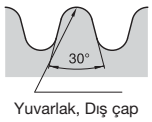
NPTF-Dış çap



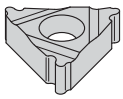


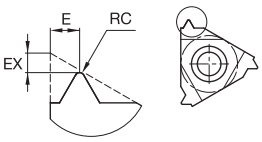
LT-ER-NPTFCB

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER115NPTFCB	16	–	1,1	1,5	–	11.5	–	●	–



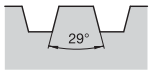
Yuvarlak, Dış çap



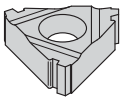


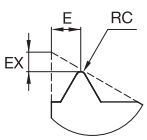
LT-ER/L-RD

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER8RD	16	0,76	1,4	1,30	–	8	–	●	–
LT22ER6RD	22	1,01	1,5	1,70	–	6	–	●	–



Küt uçlu
Acme-Dış çap





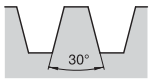


● İlk tercih
○ Alternatif tercih

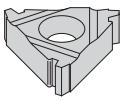
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

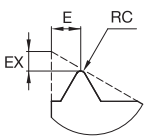
LT-ER/L-STACME

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER10STACME	16	–	1,2	1,30	–	10	–	●	–
LT16ER12STACME	16	–	1,2	1,19	–	12	–	●	–
LT16ER16STACME	16	–	1,0	0,99	–	16	–	●	–
LT16ER6STACME	16	–	1,7	1,80	–	6	–	●	–
LT16ER8STACME	16	–	1,4	1,50	–	8	–	●	–
LT22ER5STACME	22	–	2,1	2,29	–	5	–	●	–



Trapez-Dış çap

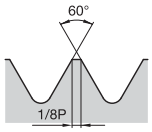




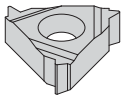


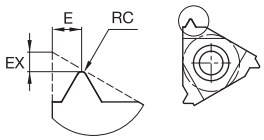
LT-ER/L-TR

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER2TR	16	–	1,1	1,30	2,0	–	–	●	–
LT16ER3TR	16	–	1,3	1,50	3,0	–	–	●	–
LT22ER4TR	22	–	1,7	1,91	4,0	–	–	●	–
LT22ER5TR	22	–	2,1	2,50	5,0	–	–	●	–



Amerikan
UN-Dış çap



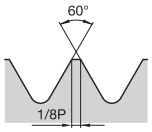


● İlk tercih
○ Alternatif tercih

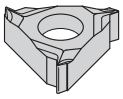
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

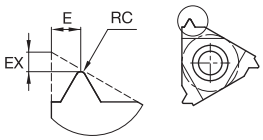
LT-ER/L-UN

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER10UN	16	–	1,1	1,5	–	10	–	●	–
LT16ER12UN	16	–	1,1	1,4	–	12	●	●	–
LT16ER14UN	16	–	1,0	1,2	–	14	●	●	–
LT16ER16UN	16	–	0,9	1,1	–	16	●	●	–
LT16ER18UN	16	–	0,8	1,0	–	18	●	●	–
LT16ER20UN	16	–	0,8	0,9	–	20	●	●	–
LT16ER24UN	16	–	0,7	0,8	–	24	●	●	–
LT16ER28UN	16	–	0,6	0,7	–	28	●	●	–
LT16ER32UN	16	–	0,6	0,6	–	32	●	●	–
LT16ER36UN	16	–	0,6	0,6	–	36	–	●	–
LT16ER40UN	16	–	0,6	0,6	–	40	–	●	–
LT16ER48UN	16	–	0,6	0,6	–	48	–	●	–
LT16ER8UN	16	–	1,2	1,6	–	8	–	●	–
Sol yönlü									
LT16EL24UN	16	–	0,7	0,8	–	24	–	●	–
LT16EL28UN	16	–	0,6	0,7	–	28	–	●	–
LT16EL8UN	16	–	1,2	1,6	–	8	–	●	–
LT16EL12UN	16	–	1,1	1,4	–	12	–	●	–
LT16EL14UN	16	–	1,0	1,2	–	14	–	●	–
LT16EL16UN	16	–	0,9	1,1	–	16	–	●	–
LT16EL18UN	16	–	0,8	1,0	–	18	–	●	–
LT16EL20UN	16	–	0,8	0,9	–	20	–	●	–



Amerikan
UN-Dış çap



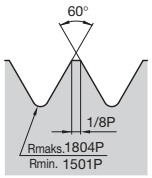


● İlk tercih
○ Alternatif tercih

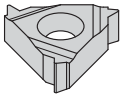
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

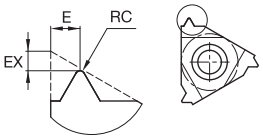
LT-ER-UNCB

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER10UNCB	16	–	1,2	1,5	–	10	–	●	–
LT16ER12UNCB	16	–	1,2	1,5	–	12	●	●	–
LT16ER14UNCB	16	–	1,2	1,5	–	14	●	●	–
LT16ER16UNCB	16	–	0,8	0,8	–	16	●	●	–
LT16ER18UNCB	16	–	0,7	0,8	–	18	●	●	–
LT16ER20UNCB	16	–	0,7	0,8	–	20	●	●	–
LT16ER24UNCB	16	–	0,7	0,8	–	24	●	●	–
LT16ER28UNCB	16	–	0,7	0,8	–	28	●	●	–
LT16ER32UNCB	16	–	1,2	0,5	–	32	●	●	–
LT16ER8UNCB	16	–	1,3	1,5	–	8	●	●	–



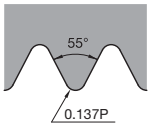
UNJ-Dış çap



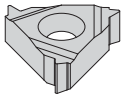


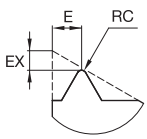
LT-ER/L-UNJ

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER12UNJ	16	–	1,1	1,3	–	12	●	●	–
LT16ER14UNJ	16	–	1,0	1,2	–	14	●	●	–
LT16ER16UNJ	16	–	0,9	1,1	–	16	●	●	–
LT16ER18UNJ	16	–	0,8	1,0	–	18	●	●	–
LT16ER20UNJ	16	–	0,8	0,9	–	20	●	●	–
LT16ER24UNJ	16	–	0,7	0,8	–	24	–	●	–
LT16ER28UNJ	16	–	0,7	0,7	–	28	–	●	–
LT16ER32UNJ	16	–	0,6	0,7	–	32	–	●	–
Sol yönlü									
LT16EL16UNJ	16	–	0,9	1,1	–	16	–	●	–



Whitworth BSW,
BSF, BSP-İç çap





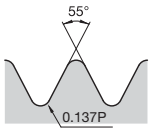


● İlk tercih
○ Alternatif tercih

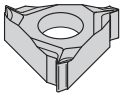
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

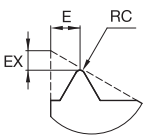
LT-ER/L-W

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER10W	16	–	1,1	1,50	–	10	–	●	–
LT16ER11W	16	–	1,1	1,50	–	11	●	●	–
LT16ER12W	16	–	1,1	1,40	–	12	–	●	–
LT16ER14W	16	–	1,0	1,19	–	14	●	●	–
LT16ER16W	16	–	0,9	1,09	–	16	–	●	–
LT16ER18W	16	–	0,8	0,99	–	18	–	●	–
LT16ER19W	16	–	0,8	0,99	–	19	●	●	–
LT16ER20W	16	–	0,8	0,89	–	20	–	●	–
LT16ER24W	16	–	0,7	0,79	–	24	–	●	–
LT16ER28W	16	–	0,6	0,69	–	28	–	●	–
LT16ER8W	16	–	1,2	1,50	–	8	–	●	–
LT16ER9W	16	–	1,2	1,70	–	9	–	●	–
LT22ER6W	22	–	1,6	2,29	–	6	–	●	–
LT22ER7W	22	–	1,6	2,29	–	7	–	●	–
Sol yönlü									
LT16EL11W	16	–	1,1	1,50	–	11	–	●	–
LT16EL14W	16	–	1,0	1,19	–	14	–	●	–



Whitworth BSW,
BSF, BSP-Dış çap





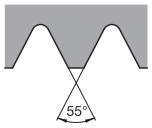


● İlk tercih
○ Alternatif tercih

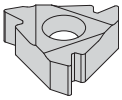
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

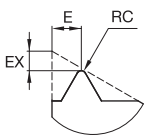
LT-ER-WCB

Katalog n umarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16ER11WCB	16	–	1,3	1,50	–	11	–	●	–
LT16ER14WCB	16	–	1,3	1,50	–	14	●	●	–



Kısmi profil
55° İç çap

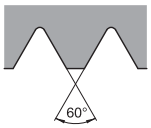




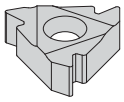


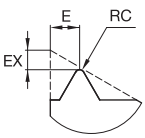
LT-NR/L-55

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT11NRA55	11	0,05	0,8	0,89	0,50-1,50	16-48	–	●	–
LT16NRA55	16	0,05	0,8	0,89	0,50-1,50	16-48	–	●	–
LT16NRAG55	16	0,07	1,2	1,70	0,50-3,00	8-48	–	●	–
LT16NRG55	16	0,21	1,2	1,70	1,75-3,00	8-14	–	●	–
LT22NRN55	22	0,43	1,7	2,49	3,5-5,00	5-7	–	●	–



Kısmi profil
60° İç çap





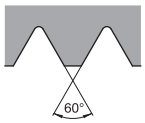


● İlk tercih
○ Alternatif tercih

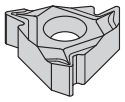
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

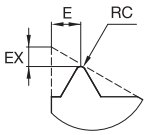
LT-NR/L-60

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT11NRA60	11	0,05	0,8	0,9	0,50-1,5	48-16	●	●	–
LT16NRA60	16	0,05	0,8	0,9	0,50-1,5	48-16	●	●	–
LT16NRAG60	16	0,05	1,2	1,7	0,50-3,0	48-8	●	●	–
LT16NRG60	16	0,15	1,2	1,7	1,75-3,0	14-8	●	●	–
LT22NRN60	22	0,31	1,7	2,5	3,5-5,0	7-5	–	●	–
Sağ yönlü									
LT11NLA60	11	0,05	0,8	0,9	0,50-1,5	48-16	–	●	–
LT16NLA60	16	0,05	0,8	0,9	0,50-1,5	48-16	–	●	–
LT16NLAG60	16	0,05	1,2	1,7	0,50-3,0	48-8	–	●	–
LT16NLG60	16	0,15	1,2	1,7	1,75-3,0	14-8	–	●	–
LT22NLN60	22	0,31	1,7	2,5	3,5-5,0	7-5	–	●	–



Kısmi profil
60° İç çap





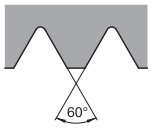


● İlk tercih
○ Alternatif tercih

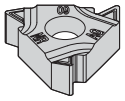
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

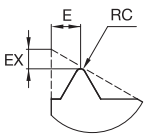
LT-NR-60CB

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT11NRA60CB	11	0,05	0,6	0,8	0,50-1,50	48-16	–	●	–
LT16NRAG60CB	16	0,05	0,9	1,5	0,50-3,0	48-8	–	●	–
LT16NRG60CB	16	0,16	1,0	1,5	1,75-3,0	14-8	–	●	–



Kısmi profil
60° İç çap

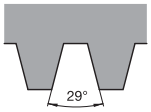




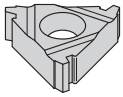


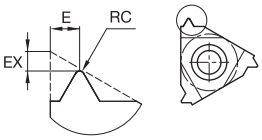
LT-NR-60K

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16NRAG60K	16	0,04	1,2	1,7	0,50-3,0	48-8	–	–	●



Acme İç çap



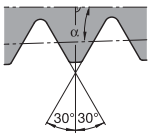


● İlk tercih
○ Alternatif tercih

P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

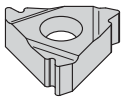
LT-NR/L-ACME

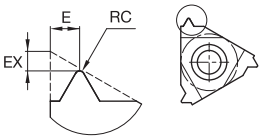
Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16NR10ACME	16	–	1,2	1,30	–	10	–	●	–
LT16NR12ACME	16	–	1,2	1,30	–	12	–	●	–
LT16NR8ACME	16	–	1,4	1,50	–	8	–	●	–
LT22NR5ACME	22	–	2,0	2,29	–	5	–	●	–
LT22NR6ACME	22	–	1,8	2,11	–	6	–	●	–



API Döner dik kenar bağlantı, iç çap

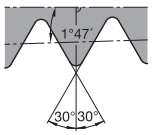
α = 1/2 arctan (TPF/12)



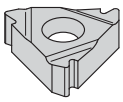


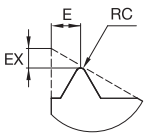
LT-NR/L-API

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT22NR4API382	22	–	2,1	2,79	–	4	–	●	–
LT22NR4API502	22	–	2,1	3,10	–	4	–	●	–
LT22NR5API403	22	–	1,8	2,60	–	5	–	●	–
LT27NR4API502	28	0,65	2,0	3,79	–	4	–	●	–
LT27NR4API382	28	0,99	2,0	2,79	–	4	–	●	–



API Yuvarlak-İç çap





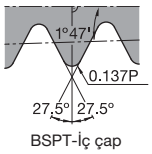


● İlk tercih
○ Alternatif tercih

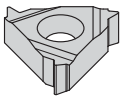
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

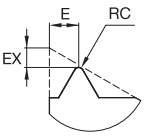
LT-NR/L-APIRD

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16NR10APIRD	16	–	1,2	1,40	–	10	–	●	–
LT16NR8APIRD	16	–	1,3	1,50	–	8	–	●	–



BSPT-İç çap

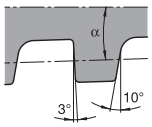




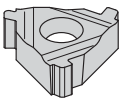


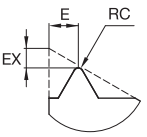
LT-NR/L-BSPT

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT11NR14BSPT	11	–	0,9	0,99	–	14	–	●	–
LT16NR11BSPT	16	–	1,1	1,50	–	11	–	●	–
LT16NR14BSPT	16	–	1,0	1,19	–	14	–	●	–



API Kaplamalı boru testere dişi, iç çap
α = 1/2 arctan (TPF/12)

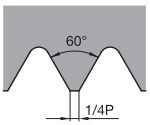




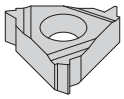


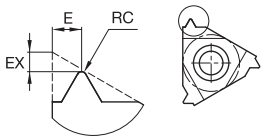
LT-NR/L-BUT

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT22NR5BUT1	22	–	2,8	1,91	–	5	–	●	–
LT22NR5BUT75	22	–	2,8	1,91	–	5	–	●	–



ISO Metrik-İç çap



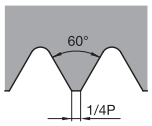


● İlk tercih
○ Alternatif tercih

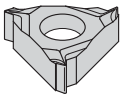
P	●	●	●
M	●	●	●
K	●	●	●
N	○	○	○
S	●	●	●
H	○		

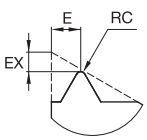
LT-NR/L-ISO

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT11NR05ISO	11	–	0,6	0,4	0,50	–	–	●	–
LT11NR075ISO	11	–	0,6	0,6	0,75	–	–	●	–
LT11NR10ISO	11	–	0,6	0,7	1,0	–	–	●	–
LT11NR125ISO	11	–	0,8	0,9	1,25	–	–	●	–
LT11NR15ISO	11	–	0,8	1,0	1,5	–	●	●	–
LT11NR175ISO	11	–	0,9	1,1	1,75	–	–	●	–
LT11NR20ISO	11	–	0,9	1,1	2,0	–	–	●	–
LT16NR05ISO	16	–	0,6	0,4	0,50	–	–	●	–
LT16NR075ISO	16	–	0,6	0,6	0,75	–	–	●	–
LT16NR10ISO	16	–	0,6	0,7	1,0	–	●	●	–
LT16NR125ISO	16	–	0,8	0,9	1,25	–	–	●	–
LT16NR15ISO	16	–	0,8	1,0	1,5	–	●	●	–
LT16NR175ISO	16	–	0,9	1,2	1,75	–	–	●	–
LT16NR20ISO	16	–	1,0	1,3	2,0	–	●	●	–
LT16NR25ISO	16	–	1,1	1,5	2,5	–	–	●	–
LT16NR30ISO	16	–	1,1	1,5	3,0	–	●	●	–
LT22NR35ISO	22	–	1,6	2,3	3,5	–	–	●	–
LT22NR40ISO	22	–	1,6	2,3	4,0	–	–	●	–
LT22NR45ISO	22	–	1,6	2,4	4,5	–	–	●	–
LT22NR50ISO	22	–	1,6	2,3	5,0	–	–	●	–
Sol yönlü									
LT11NL15ISO	11	–	0,8	1,0	1,5	–	–	●	–
LT11NL10ISO	11	–	0,6	0,7	1,0	–	–	●	–
LT16NL30ISO	16	–	1,1	1,5	3,0	–	–	●	–
LT16NL10ISO	16	–	0,6	0,7	1,0	–	–	●	–
LT16NL15ISO	16	–	0,8	1,0	1,5	–	–	●	–
LT16NL20ISO	16	–	1,0	1,3	2,0	–	–	●	–
LT16NL25ISO	16	–	1,1	1,5	2,5	–	–	●	–



ISO Metrik-İç çap







● İlk tercih
○ Alternatif tercih

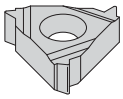
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

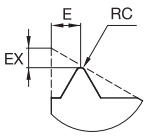
LT-NR-ISOCB

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT11NR075ISOCB	11	–	1,2	0,5	0,75	–	–	●	–
LT11NR10ISOCB	11	–	0,7	0,8	1,0	–	–	●	–
LT11NR125ISOCB	11	–	0,7	0,8	1,25	–	–	●	–
LT11NR15ISOCB	11	–	0,7	0,8	1,5	–	–	●	–
LT16NR10ISOCB	16	–	0,7	0,8	1,0	–	–	●	–
LT16NR15ISOCB	16	–	0,7	0,8	1,5	–	–	●	–
LT16NR20ISOCB	16	–	1,1	1,5	2,0	–	–	●	–
LT16NR25ISOCB	16	–	1,1	1,5	2,5	–	–	●	–

● İlk tercih
○ Alternatif tercih

P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

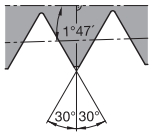




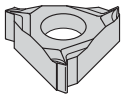


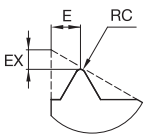
LT-NR/L-NPT

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT11NR14NPT	11	–	0,8	1,0	–	14	●	●	–
LT11NR18NPT	11	–	0,8	1,0	–	18	–	●	–
LT16NR115NPT	16	–	1,1	1,5	–	11.5	●	●	–
LT16NR14NPT	16	–	0,9	1,2	–	14	–	●	–
LT16NR8NPT	16	–	1,3	1,8	–	8	–	●	–



NPT-İç çap

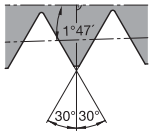




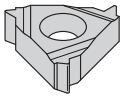


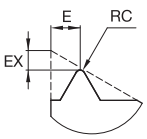
LT-NR-NPTCB

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16NR115NPTCB	16	–	1,1	1,5	–	11.5	–	●	–
LT16NR14NPTCB	16	–	1,4	1,2	–	14	–	●	–



NPT-İç çap





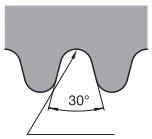


LT-NR/L-NPTF

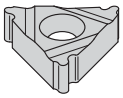
Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT11NR14NPTF	11	–	0,8	0,99	–	14	–	●	–
LT16NR14NPTF	16	–	0,9	1,19	–	14	–	●	–

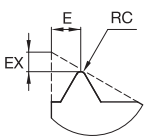
P	●	●	●
M	●	●	●
K	●	●	●
N	○	○	○
S	●	●	●
H	○		

● İlk tercih
○ Alternatif tercih



Yuvarlak-İç çap

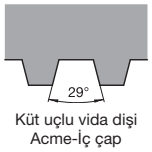




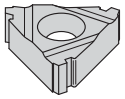


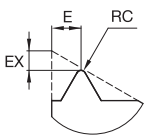
LT-NR/L-RD

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16NR8RD	16	0,70	1,4	1,40	–	8	–	●	–
LT22NR6RD	22	0,93	1,5	1,70	–	6	–	●	–



Küt uçlu vida dişi Acme-İç çap

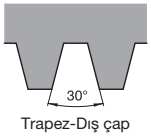




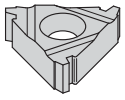


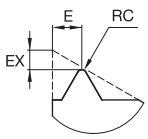
LT-NR/L-STACME

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16NR10STACME	16	–	1,2	1,30	–	10	–	●	–
LT16NR12STACME	16	–	1,1	1,19	–	12	–	●	–
LT16NR14STACME	16	–	1,1	1,09	–	14	–	●	–
LT16NR16STACME	16	–	1,0	0,99	–	16	–	●	–
LT16NR6STACME	16	–	1,7	1,80	–	6	–	●	–
LT16NR8STACME	16	–	1,4	1,50	–	8	–	●	–



Trapez-Dış çap

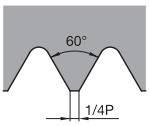




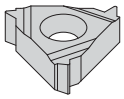


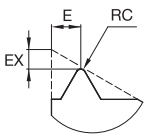
LT-NR/L-TR

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16NR2TR	16	–	1,1	1,30	2,0	–	–	●	–
LT16NR3TR	16	–	1,3	1,50	3,0	–	–	●	–
LT22NR4TR	22	–	1,7	1,91	4,0	–	–	●	–
LT22NR5TR	22	–	2,1	2,50	5,0	–	–	●	–



Amerikan
UN-İç çap





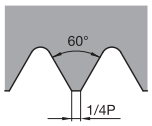


● İlk tercih
○ Alternatif tercih

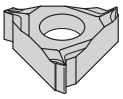
		KC5010	KC5025	KU25T
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

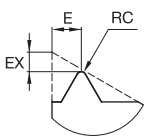
LT-NR/L-UN

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT11NR16UN	11	–	0,9	1,1	–	16	●	●	–
LT11NR18UN	11	–	0,8	1,0	–	18	–	●	–
LT11NR20UN	11	–	0,8	0,9	–	20	–	●	–
LT11NR24UN	11	–	0,7	0,8	–	24	–	●	–
LT11NR28UN	11	–	0,6	0,7	–	28	–	●	–
LT11NR32UN	11	–	0,6	0,6	–	32	–	●	–
LT11NR40UN	11	–	0,6	0,6	–	40	–	●	–
LT16NR10UN	16	–	1,1	1,5	–	10	–	●	–
LT16NR12UN	16	–	1,1	1,4	–	12	●	●	–
LT16NR14UN	16	–	0,9	1,2	–	14	–	●	–
LT16NR16UN	16	–	0,9	1,1	–	16	–	●	–
LT16NR18UN	16	–	0,8	1,0	–	18	–	●	–
LT16NR20UN	16	–	0,8	0,9	–	20	–	●	–
LT16NR24UN	16	–	0,7	0,8	–	24	–	●	–
LT16NR28UN	16	–	0,6	0,7	–	28	–	●	–
LT16NR32UN	16	–	0,6	0,6	–	32	–	●	–
LT16NR8UN	16	–	1,1	1,5	–	8	–	●	–
Sol yönlü									
LT11NL32UN	11	–	0,6	0,6	–	32	–	●	–
LT16NL10UN	16	–	1,1	1,5	–	10	–	●	–
LT16NL12UN	16	–	1,1	1,4	–	12	–	●	–
LT16NL16UN	16	–	0,9	1,1	–	16	–	●	–



Amerikan
UN-İç çap





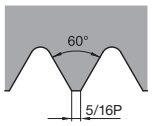


● İlk tercih
○ Alternatif tercih

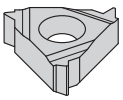
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

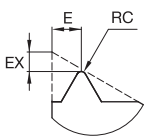
LT-NR-UNCB

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT11NR16UNCB	11	–	0,7	0,8	–	16	–	●	–
LT11NR18UNCB	11	–	0,6	0,8	–	18	–	●	–
LT11NR20UNCB	11	–	0,6	0,8	–	20	–	●	–
LT11NR24UNCB	11	–	0,7	0,8	–	24	–	●	–
LT11NR32UNCB	11	–	1,2	0,5	–	32	–	●	–
LT16NR10UNCB	16	–	1,1	1,5	–	10	–	●	–
LT16NR12UNCB	16	–	1,1	1,5	–	12	–	●	–
LT16NR14UNCB	16	–	1,1	1,5	–	14	–	●	–
LT16NR16UNCB	16	–	0,7	0,8	–	16	–	●	–
LT16NR18UNCB	16	–	0,6	0,8	–	18	–	●	–
LT16NR20UNCB	16	–	0,7	0,6	–	20	–	●	–
LT16NR8UNCB	16	–	1,1	1,5	–	8	–	●	–



UNJ-İç çap

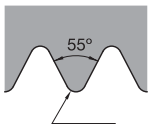




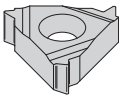


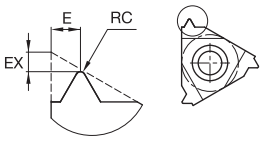
LT-NR/L-UNJ

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT11NR14UNJ	11	–	1,0	1,2	–	14	–	●	–
LT11NR16UNJ	11	–	0,9	1,1	–	16	–	●	–
LT11NR18UNJ	11	–	0,8	1,0	–	18	–	●	–
LT16NR12UNJ	16	–	1,1	1,3	–	12	–	●	–
LT16NR16UNJ	16	–	0,9	1,1	–	16	–	●	–



Whitworth BSW,
BSF, BSP-İç çap



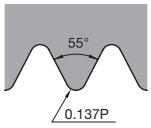


P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

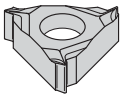
● İlk tercih
○ Alternatif tercih

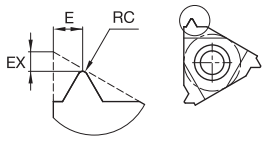
LT-NR/L-W

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT11NR14W	11	–	0,9	1,09	–	14	–	●	–
LT11NR19W	11	–	0,8	0,99	–	19	–	●	–
LT16NR10W	16	–	1,1	1,50	–	10	–	●	–
LT16NR11W	16	–	1,1	1,50	–	11	●	●	–
LT16NR12W	16	–	1,1	1,40	–	12	–	●	–
LT16NR14W	16	–	1,0	1,19	–	14	–	●	–
LT16NR16W	16	–	0,9	1,09	–	16	–	●	–
LT16NR19W	16	–	0,8	0,99	–	19	–	●	–
LT16NR20W	16	–	0,8	0,89	–	20	–	●	–
LT16NR8W	16	–	1,2	1,50	–	8	–	●	–
LT22NR7W	22	–	1,6	2,29	–	7	–	●	–
Sol yönlü									
LT16NL11W	16	–	1,1	1,50	–	11	–	●	–



Whitworth BSW,
BSF, BSP-İç çap





LT-NR-WCB

Katalog numarası	Kesici uç ölçüsü	RC	EX	E	Vida dişi hatvesi	TPI	KC5010	KC5025	KU25T
Sağ yönlü									
LT16NR11WCB	16	–	1,3	1,50	–	11	–	●	–
LT16NR14WCB	16	–	1,3	1,50	–	14	–	●	–

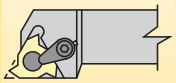
Katalog numaraları nasıl kullanılır?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.

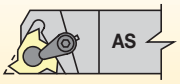


L	S	AS	R		2525M	16	
Kesici uç tipi	Kesici uç bağlama yöntemi	Takım tipi	Takım yönü	Üstü açık kafa	Şaft ölçüsü	Kesici uç ölçüsü	Sartlı yüzey ve uzunluk

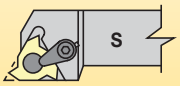
L — Yatık konumda üçgen kesici uç

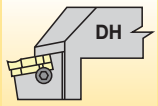


Düz şaft



Merkezden kaçık şaft





Metrik:
ISO standardına göre mm olarak şaft yüksekliği ve genişliği ve tutucu boyu.

C — Sartlı arka ve uç, 5" uzun

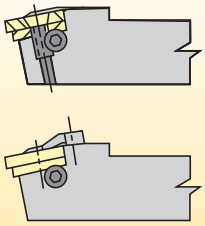
D — Sartlı arka ve uç, 6" uzun

E — Sartlı arka ve uç, 7" uzun

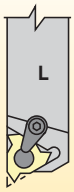
T — Sartlı arka ve uç, 3,25" uzun

Q — Sartlı metrik tutucu

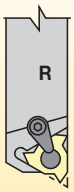
S — Kesici uç vidası veya sadece bağlama çenesi



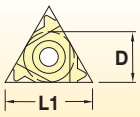
Sol yönlü



Sağ yönlü

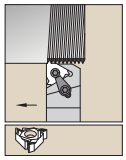


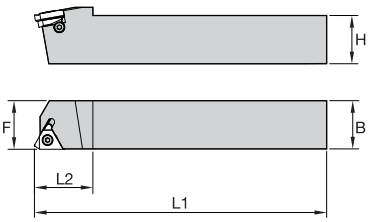
Kesici uç köşe radyüs ölçüsü 1/8" artış sayısına eşit.

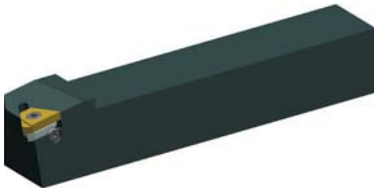


İnç kesici uç ölçüsü	Metrik kesici uç ölçüsü	D mm	L1 mm
2	11	6,4	11,0
3	16	9,5	16,5
4	22	12,7	22,0

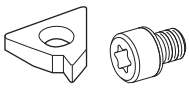
NOT: Ana şaft ölçüleri 1/2 veya 12mm' den büyük takım tutucular" bağlama çeneli ve kesici uç vidalıdır.
Kesici uç ya bağlama çenesi ya da kesici uç vidası ile bağlanır. Her ikisi birden kullanılmaz.
Vida dişi tornalama ucu altlığı katalog numaralandırma sistemi için D80 sayfasına bakınız.





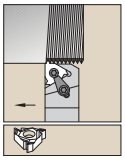


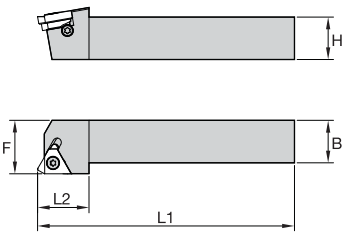
LSA

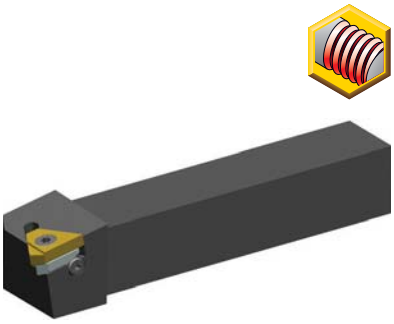




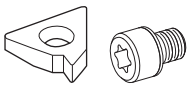
Sipariş numarası	Katalog numarası	H	B	F	L1	Ayar ucu	Altlık	Altlık vidası	Torx	Torx	Kesici uç vidası	Torx
Sağ yönlü												
1136965	**LSASR1212N16**	12	12	16	85	LT16ER	–	–	–	–	**SSA3T**	T10
1136984	**LSASR1616H16**	16	16	16	100	LT16ER	**SMYE3**	**SSY3T**	T10	T15	**SSA3T**	T10
1136992	**LSASR2020K16**	20	20	20	125	LT16ER	**SMYE3**	**SSY3T**	T10	T15	**SSA3T**	T10
1137000	**LSASR2525M16**	25	25	25	150	LT16ER	**SMYE3**	**SSY3T**	T10	T15	**SSA3T**	T10
1137007	**LSASR2525M22**	25	25	25	150	LT22ER	**SMYE4**	**SSY4T**	T20	T20	**SSA4T**	T20
1125454	**LSASR3232P16**	32	32	32	170	LT16ER	**SMYE3**	**SSY3T**	T10	T15	**SSA3T**	T10
1611931	**LSASR3232P22**	32	32	32	170	LT22ER	**SMYE4**	**SSY4T**	T20	T20	**SSA4T**	T20
Sol yönlü												
1136926	**LSASL1212N16**	12	12	16	85	LT16EL	–	–	–	–	**SSA3T**	T10
1136935	**LSASL1616H16**	16	16	16	100	LT16EL	**SMYI3**	**SSY3T**	T10	T15	**SSA3T**	T10
1136943	**LSASL2020K16**	20	20	20	125	LT16EL	**SMYI3**	**SSY3T**	T10	T15	**SSA3T**	T10
1136951	**LSASL2525M16**	25	25	25	150	LT16EL	**SMYI3**	**SSY3T**	T10	T15	**SSA3T**	T10
1136959	**LSASL2525M22**	25	25	25	150	LT22EL	**SMYI4**	**SSY4T**	T20	T20	**SSA4T**	T20





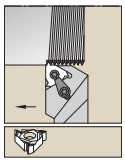


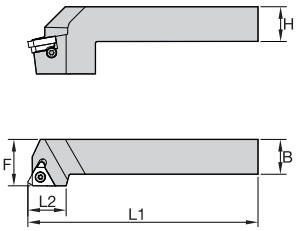
LSS

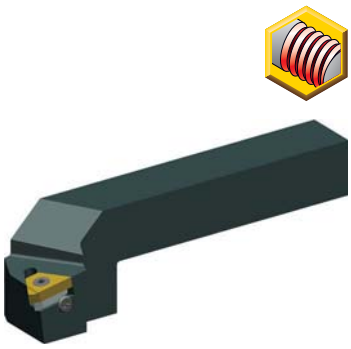




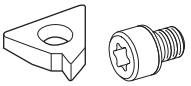
Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Torx	Kesici uç vidası	Torx
Sağ yönlü												
1137054	**LSSR2020K16Q**	20	20	25	125	25	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1137063	**LSSR2525M16Q**	25	25	32	150	25	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1137069	**LSSR2525M22Q**	25	25	32	150	30	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1611933	**LSSR3232P16Q**	32	32	40	170	32	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1611935	**LSSR3232P22Q**	32	32	40	170	30	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
Sol yönlü												
1192325	**LSSL2020K16Q**	20	20	25	125	25	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1137022	**LSSL2525M16Q**	25	25	32	150	25	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1137029	**LSSL2525M22Q**	25	25	32	150	30	LT22EL	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1611934	**LSSL3232P16Q**	32	32	40	170	32	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10







LSS-DH





Sipariş numarası	Katalog numarası	H	B	F	L1	LH	Ayar ucu	Altlık	Altlık vidası	Torx	Kesici uç vidası	Torx
Sağ yönlü												
1174502	**LSSRDH2020K16Q**	20	20	25	125	38	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1611938	**LSSRDH2525M16**	25	25	32	150	38	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1137036	**LSSRDH2525M22Q**	25	25	32	150	38	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
Sol yönlü												
1611939	**LSSLDH2525M16**	25	25	32	150	38	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10

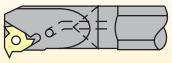
Katalog numaraları nasıl kullanılır?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ürün ile ilgili belirli bir özeliği tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.

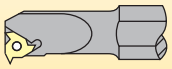


E	16		L	S	E	R	16
Bara tipi	Bağlantı boyunlu şafta sahip ana bara çapı	İkincil (bağlamalı) bara çapı	Kesici uç tipi	Kesici uç bağlama yöntemi	Bara tipi	Takım yönü	Kesici uç ölçüsü

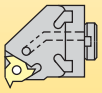
E — İçten soğutmalı karbür



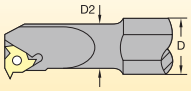
S — Dıştan soğutmalı çelik şaft



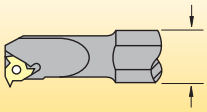
H — İçten soğutmalı birbirleriyle değiştirilebilir kafa



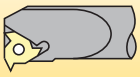
mm olarak metrik çap.



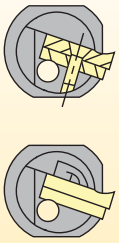
1/16" artışlarla ikincil bara çapını gösterir. mm olarak metrik çap.



L — Yatık konumda üçgen kesici uç



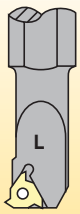
S — Kesici uç vidası veya sadece bağlama çenesi



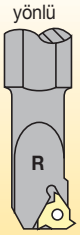
Uçtan bağlamalı kesme kenarı



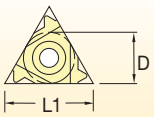
Sol yönlü



Sağ yönlü



Kesici uç köşe radyüs ölçüsü 1/8" artış sayısına eşit.



İnç kesici uç ölçüsü	Metrik kesici uç ölçüsü	D mm	L1 mm
2	11	6,4	11,0
3	16	9,5	16,5
4	22	12,7	22,0

LT Yatık konumda vida dişi tornalama ucu altlığı katalog numaralandırma sistemi

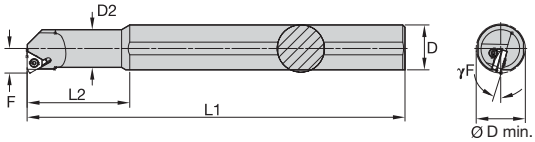
SM	Y	E	3	2P
Altlık	LT Yatık konumda vida dişi tornalama uçları için altlık	Vida dişi tornalama ucu	Kesici uç ölçüsü	Altlık açısı
		E = Dış çap **I** = İç çap	1/8" olarak D değeri	**2P** = 2º Pozitif **1P** = 1º Pozitif **—** = 0º Nötr **1N** = 1º Negatif **2N** = 2º Negatif **3N** = 3º Negatif

Altlıklar ve altlık kitleri için, D109–D110 sayfalarına bakınız.



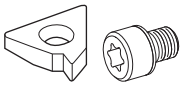
İçten soğutmalı çelik şaft.





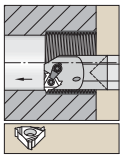


A-LSE

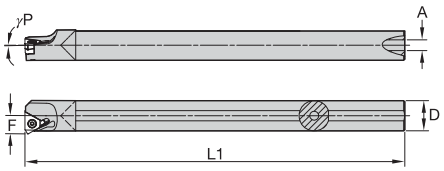




Sipariş numarası	Katalog numarası	D	D min.	D2	F	L1	L2	γF°	γP°	Ayar ucu	Altlık	Altlık vidası	Torx	Kesici uç vidası	Torx
Sağ yönlü															
1131468	**A1020LSER11**	20	13	–	7,3	180	25	-15.0	-1.5	LT11NR	–	–	–	**SSN2T**	T8
1131481	**A1320LSER11**	20	16	–	8,9	180	32	-15.0	-1.5	LT11NR	–	–	–	**SSN2T**	T8
1612581	**A1320LSER16**	20	17	–	10,3	180	32	-15.0	-1.5	LT16NR	–	–	–	**SSA3T**	T10
1798921	**A1616LSER16**	16	20	16,0	11,3	150	32	-15.0	-1.5	LT16NR	–	–	–	**SSA3T**	T10
1131509	**A1620LSER16**	20	20	–	11,7	180	36	-15.0	-1.5	LT16NR	–	–	–	**SSA3T**	T10
1131524	**A2020LSER16**	20	24	20,0	13,4	180	40	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1131547	**A2525LSER16**	25	29	–	16,1	200	45	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1131566	**A2525LSER22**	25	32	–	17,2	200	45	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1612584	**A2020LSER22**	20	27	20,0	15,6	180	50	-15.0	-1.5	LT22NR	–	–	–	**SSA4T**	T20
1131574	**A2532LSER16**	32	29	–	16,3	250	60	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1131582	**A2532LSER22**	32	32	–	17,4	250	60	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1612587	**A3232LSER22**	32	39	32,0	21,5	250	60	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1798922	**A4040LSER22**	40	47	40,0	25,8	300	60	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1798920	**A1010LSER11**	10	13	10,0	7,3	100	100	-15.0	-1.5	LT11NR	–	–	–	**SSN2T**	T8
Sol yönlü															
1612586	**A2532LSEL16**	32	29	–	16,3	250	–	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1131458	**A1020LSEL11**	20	13	–	7,3	180	25	-15.0	-1.5	LT11NL	–	–	–	**SSN2T**	T8
1131476	**A1320LSEL11**	20	16	–	8,9	180	32	-15.0	-1.5	LT11NL	–	–	–	**SSN2T**	T8
1798980	**A1616LSEL16**	16	20	16,0	11,3	150	32	-15.0	-1.5	LT16NL	–	–	–	**SSA3T**	T10
1131499	**A1620LSEL16**	20	20	–	11,5	180	40	-15.0	-1.5	LT16NL	–	–	–	**SSA3T**	T10
1131516	**A2020LSEL16**	20	24	20,0	13,4	180	40	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1131532	**A2525LSEL16**	25	29	–	16,1	200	45	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1131540	**A2525LSEL22**	25	32	–	17,2	200	45	-15.0	-1.5	LT22NL	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1612585	**A2020LSEL22**	20	27	20,0	15,6	180	50	-15.0	-1.5	LT22NL	–	–	–	**SSA4T**	T20
1612588	**A3232LSEL22**	32	39	32,0	21,5	250	60	-15.0	-1.5	LT22NL	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1799093	**A4040LSEL22**	40	47	40,0	25,8	300	60	-15.0	-1.5	LT22NL	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1798979	**A1010LSEL11**	10	13	10,0	7,3	100	100	-15.0	-1.5	LT11NL	–	–	–	**SSN2T**	T8



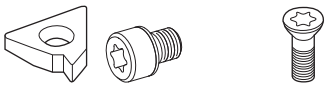
İçten soğutmalı karbür şaft





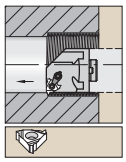


E-LSE

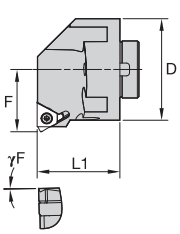


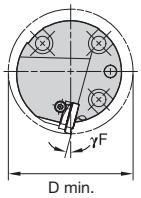
Sipariş numarası	Katalog numarası	D	D min.	F	L1	A	γF°	γP°	Ayar ucu	Altlık	Altlık vidası	Torx	Kesici uç vidası	Torx
Sağ yönlü														
1152844	**E16RLSER16**	16	20	11,5	200,0	6	-15	-1.5	LT16NR	–	–	–	**SN3TPKG**	T10
1152846	**E20SLSER16**	20	24	13,4	250,0	7	-15	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1152848	**E25TLSER16**	25	29	15,8	300,0	8	-15	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10

NOT: Listelenen altlıksız kesici uçlar 1.5° eğim açısına sahip olacak şekilde tasarlanmıştır.



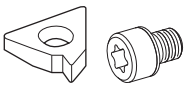
İçten soğutmalı





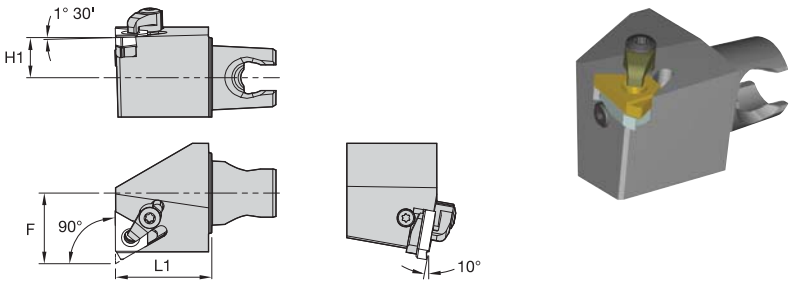


H-LSE



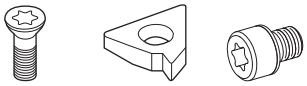
Sipariş numarası	Katalog numarası	D	D min.	L1	F	γF°	γP°	Ayar ucu	Altlık	Altlık vidası	Torx	Kesici uç vidası	Torx
Sağ yönlü													
1095216	**H16LSER3**	25	30,5	41,3	16,4	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095218	**H20LSER3**	32	36,8	41,3	19,3	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095220	**H24LSER3**	38	44,7	41,3	22,5	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095224	**H24LSER4**	38	45,3	41,3	24,7	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1803997	**H40LSER22**	40	47,0	41,3	25,9	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1803995	**H50LSER16**	50	54,0	41,3	28,6	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1803999	**H50LSER22**	50	56,0	41,3	30,5	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
3842905	**H50LSER27**	50	58,0	41,3	31,4	-15.0	-1.5	LT27NR	**SMYI5**	**SSY5T**	T25	**SSA5T**	T25
1095222	**H32LSER3**	51	61,0	41,3	32,4	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1095226	**H32LSER4**	51	61,0	41,3	32,4	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
3842895	**H32LSER5**	51	61,0	41,3	32,5	-15.0	-1.5	LT27NR	**SMYI5**	**SSY5T**	T25	**SSA5T**	T25
3842897	**H40LSER5**	64	77,0	41,3	38,9	-15.0	-1.5	LT27NR	**SMYI5**	**SSY5T**	T25	**SSA5T**	T25

NOT: Delik işleme adaptörleri için bkz. sayfa B386.

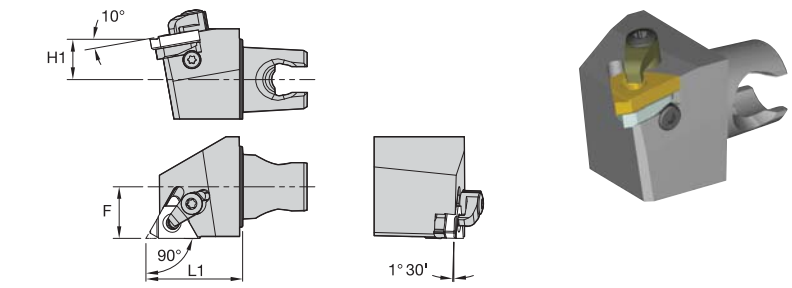


Resimlerdeki bağlantılar artık mevcut değildir.

LSE • Uçtan bağlamalı

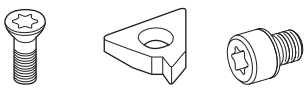


Sipariş numarası	Katalog numarası	L1	F	H1	Ayar ucu	Kesici uç vidası	Altlık	Altlık vidası
Sağ yönlü								
2399506	**KM25LSER1630**	30	22	12,5	LT16EL	**SSA3T**	**SMYI3**	**SSY3T**
Sol yönlü								
2399507	**KM25LSEL1630**	30	22	12,5	LT16ER	**SSA3T**	**SMYE3**	**SSY3T**



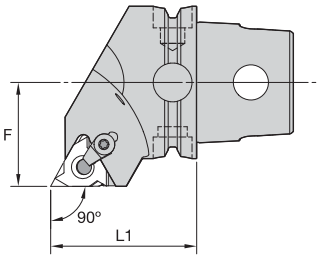
Resimlerdeki bağlantılar artık mevcut değildir.

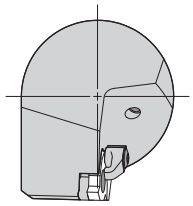
LSS • Yandan bağlamalı

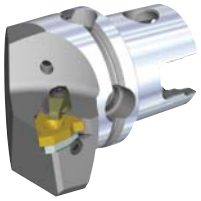


Sipariş numarası	Katalog numarası	L1	F	H1	Ayar ucu	Kesici uç vidası	Altlık	Altlık vidası
Sağ yönlü								
2399504	**KM25LSSR1630**	30	16	12,5	LT16ER	**SSA3T**	**SMYE3**	**SSY3T**
3176219	**KM25LSSR2230**	30	16	12,5	LT22ER	**SSA4T**	**SMYE4**	**SSY4T**
Sol yönlü								
2399505	**KM25LSSL1630**	30	16	12,5	LT16EL	**SSA3T**	**SMYI3**	**SSY3T**
3176220	**KM25LSSL2230**	30	16	12,5	LT22EL	**SSA4T**	**SMYI4**	**SSY4T**





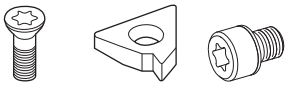




Resimlerdeki bağlantılar artık mevcut değildir.

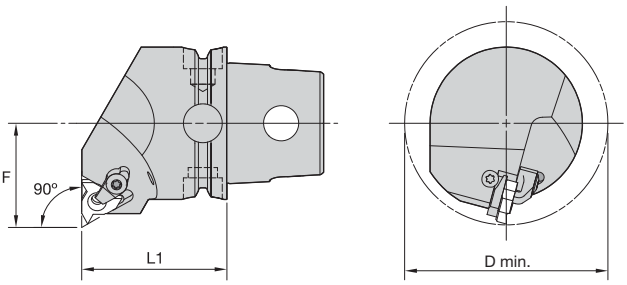
KM QUICK CHANGE

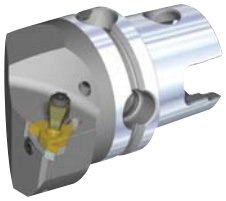
LSS 90°



Sipariş numarası	Katalog numarası	L1 mm	L1 inç	F mm	F inç	Ayar ucu	Kesici uç vidası	Altlık	Altlık vidası	kg	lbs
Sağ yönlü											
3950857	**KM40TSLSSR16**	40	1.575	27	1.063	LT16ER	**SSA3T**	**SMYE3**	**SSY3T**	0,31	.68
3950858	**KM40TSLSSR22**	40	1.575	27	1.063	LT22ER	**SSA4T**	**SMYE4**	**SSY4T**	0,30	.66
3959401	**KM40TSLSSR27**	45	1.772	27	1.063	LT27ER	**SSA5T**	**SMYE5**	**SSY5T**	0,37	.82
Sol yönlü											
3950855	**KM40TSLSSL16**	40	1.575	27	1.063	LT16EL	**SSA3T**	**SMYI3**	**SSY3T**	0,32	.70
3950856	**KM40TSLSSL22**	40	1.575	27	1.063	LT22EL	**SSA4T**	**SMYI4**	**SSY4T**	0,31	.68
3959400	**KM40TSLSSL27**	45	1.772	27	1.063	LT27EL	**SSA5T**	**SMYI5**	**SSY5T**	0,37	.82



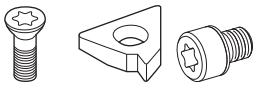




Resimlerdeki bağlantılar artık mevcut değildir.

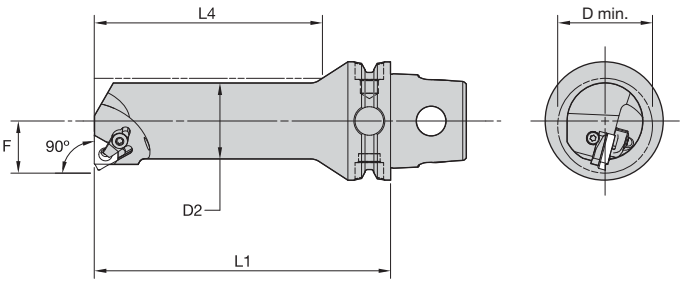
KM™ QUICK CHANGE

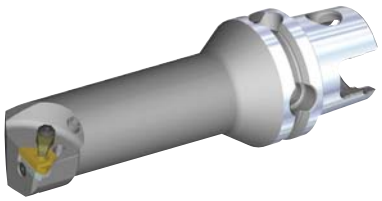
LSE-N 90° • Sadece iç çap



Sipariş numarası	Katalog numarası	L1		F		D min.		Ayar ucu	Kesici uç vidası	Altlık	Altlık vidası	kg	lbs
		mm	inç	mm	inç	mm	inç						
Sağ yönlü													
3950832	**KM40TSLSER16N**	40	1.575	27	1.063	54	2.126	LT16NR	**SSA3T**	**SMYI3**	**SSY3T**	0,35	.77
3950854	**KM40TSLSER22N**	40	1.575	27	1.063	54	2.126	LT22NR	**SSA4T**	**SMYI4**	**SSY4T**	0,35	.77
3959399	**KM40TSLSER27N**	45	1.772	27	1.063	54	2.126	LT27NR	**SSA5T**	**SMYI5**	**SSY5T**	0,39	.86
Sol yönlü													
3950831	**KM40TSLSEL16N**	40	1.575	27	1.063	54	2.126	LT16NL	**SSA3T**	**SMYE3**	**SSY3T**	0,35	.77







KM QUICK CHANGE

Resimlerdeki bağlantılar artık mevcut değildir.

LSE 90°

Sipariş numarası	Katalog numarası	D2 mm	D2 inç	D min. mm	D min. inç	F mm	F inç	L4 mm	L4 inç	L1 mm	L1 inç	Ayar ucu	kg	lbs
Sağ yönlü														
3955464	**KM40TSS10DLSER11**	10	.39	13	.51	7	.276	35	1.38	60	2.362	LT11NR	0,22	.49
3955466	**KM40TSS12ELSER11**	12	.47	16	.63	9	.354	42	1.66	70	2.756	LT11NR	0,25	.56
3955468	**KM40TSS16FLSER16**	16	.63	20	.79	11	.433	56	2.21	80	3.150	LT16NR	0,28	.61
3955470	**KM40TSS20GLSER16**	20	.79	25	.98	13	.512	70	2.76	90	3.543	LT16NR	0,34	.75
3955472	**KM40TSS25HLSER16**	25	.98	32	1.26	17	.669	75	2.95	100	3.937	LT16NR	0,50	1.11
3955474	**KM40TSS32JLSER16**	32	1.26	40	1.57	22	.866	96	3.78	110	4.331	LT16NR	0,72	1.58
3955476	**KM40TSS32JLSER22**	32	1.26	40	1.57	22	.866	96	3.78	110	4.331	LT22NR	0,71	1.56
Sol yönlü														
3955463	**KM40TSS10DLSEL11**	10	.39	13	.51	7	.276	35	1.38	60	2.362	LT11NL	0,22	.49
3955465	**KM40TSS12ELSEL11**	12	.47	16	.63	9	.354	42	1.65	70	2.756	LT11NL	0,25	.55
3955469	**KM40TSS20GLSEL16**	20	.79	25	.98	13	.512	70	2.76	90	3.543	LT16NL	0,34	.75
3955471	**KM40TSS25HLSEL16**	25	.98	32	1.26	17	.669	75	2.95	100	3.937	LT16NL	0,50	1.11
3955473	**KM40TSS32JLSEL16**	32	1.26	40	1.57	22	.866	96	3.78	110	4.331	LT16NL	0,72	1.58
3955475	**KM40TSS32JLSEL22**	32	1.26	40	1.57	22	.866	96	3.78	110	4.331	LT22NL	0,71	1.56

NOT: Listelenen altlıksız kesici uçlar 1.5° eğim açısına sahip olacak şekilde tasarlanmıştır.

Yedek parçalar



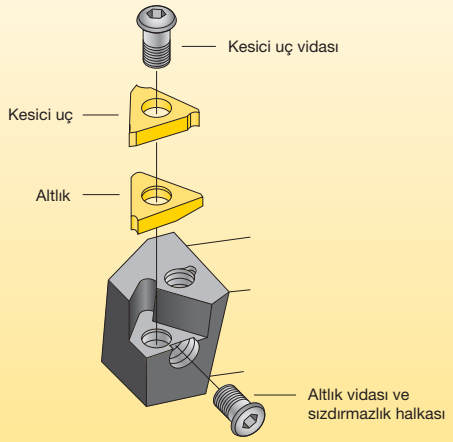


Katalog numarası	Kesici uç vidası	Altlık	Altlık vidası
Sağ yönlü			
KM40TSS10DLSER11	**SSN2T**	**–**	**–**
KM40TSS12ELSER11	**SSN2T**	**–**	**–**
KM40TSS16FLSER16	**SN3TPKG**	**–**	**–**
KM40TSS20GLSER16	**SSA3T**	**SMYI3**	**SSY3T**
KM40TSS25HLSER16	**SSA3T**	**SMYI3**	**SSY3T**
KM40TSS32JLSER16	**SSA3T**	**SMYI3**	**SSY3T**
KM40TSS32JLSER22	**SSA4T**	**SMYI4**	**SSY4T**
Sol yönlü			
KM40TSS10DLSEL11	**SSN2T**	**–**	**–**
KM40TSS12ELSEL11	**SSN2T**	**–**	**–**
KM40TSS20GLSEL16	**SSA3T**	**SMYE3**	**SSY3T**
KM40TSS25HLSEL16	**SSA3T**	**SMYE3**	**SSY3T**
KM40TSS32JLSEL16	**SSA3T**	**SMYE3**	**SSY3T**
KM40TSS32JLSEL22	**SSA4T**	**SMYE4**	**SSY4T**

Yatık konumda vida dişi tornalamada kullanılan takım tutucular

Her durumda, uygun altlık seçimi önemlidir.

Kennametal takım tutucular, 1.5° ayar açısı için bir altlık ile sağlanır. Vida dişiniz 1 dereceden daha farklı ise altlık değiştirilir.
Doğru altlık seçimleri ile ilgili daha fazla bilgi için D109–D110 sayfalarına bakınız.



Kesici uç ölçüsü ve vida	Kesici uç vidası	Altlık	Altlık vidası ve sızdırmazlık halkası
3ER	SS-A3T	SM-YIE3	SS-Y3T
3EL	SS-A3T	SM-YI3	SS-Y3T
4ER	SS-A4T	SM-YIE4	SS-Y4T
4EL	SS-A4T	SM-YI4	SS-Y4T
Yatık konumda vida dişi tornalama delik işleme baraları			
2IR	SS-N2T	–	–
2IL	SS-N2T	–	–
3IR	SS-A3T	SM-YI3	SS-Y3T
3IL	SS-A3T	SM-YIE3	SS-Y3T
4IR	SS-A4T	SM-YI4	SS-Y4T
4IL	SS-A4T	SM-YIE4	SS-Y4T

SM	—	Y	E	3	—	2N
Altlık		Standart yatık konumda vida dişi tornalama uçları için Y altlığı	E – Dış çap I – İç çap	IC (Kesici uç köşe radyüs ölçüsü) – 16mm		Altlık açısı

2P	2° Pozitif
1P	1° Pozitif
–	0°
1N	1° Negatif
2N	2° Negatif
3N	3° Negatif

Elde edilen açı		3.5°	2.5°	1.5°	0.5°	-0.5°	-1.5°
Kesici uç kenar radyüs ölçüsü (iC)	Takım tutucu	Altlık sipariş numarası					
16mm	Dış çap RH Sag yönlü/inç LH Sol yönlü dış çap LH Sol yönlü/inç RH Sag yönlü	SM-YE3-2P SM-YI3-2P	SM-YE3-1P SM-YI3-1P	SM-YE3 SM-YI3	SM-YE3-1N SM-YI3-1N	SM-YE3-2N SM-YI3-2N	SM-YE3-3N SM-YI3-3N
22mm	Dış çap RH Sag yönlü/inç LH Sol yönlü dış çap LH Sol yönlü/inç RH Sag yönlü	SM-YE4-2P SM-YI4-2P	SM-YE4-1P SM-YI4-1P	SM-YE4 SM-YI4	SM-YE4-1N SM-YI4-1N	SM-YE4-2N SM-YI4-2N	SM-YE4-3N SM-YI4-3N

Eğimli altlık kiti

Zaman zaman standart takım tutucularımız ile sağlananlardan farklı altlıklara ihtiyaç duyabileceğinizden, altlık kitlerinin her takım atölyesinde kullanıma hazır olmasını kesinlikle önermekteyiz.

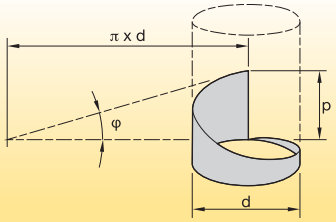
Kesici uç ölçüsü	Altlık ölçüsü (D)	Sipariş numarası	Eğimli altlıklar içerir
3x	16mm	ABY3SET	SM-YE3-2P, 1P, 1N, 2N, 3N SM-YI3-2P, 1P, 1N, 2N, 3N
4x	22mm	ABY4	SM-YE4-2P, 1P, 1N, 2N, 3N SM-YI4-2P, 1P, 1N, 2N, 3N

Helis açısı

Örnek:
d = 48,06mm (1.892")
p = 3,175mm (.125")

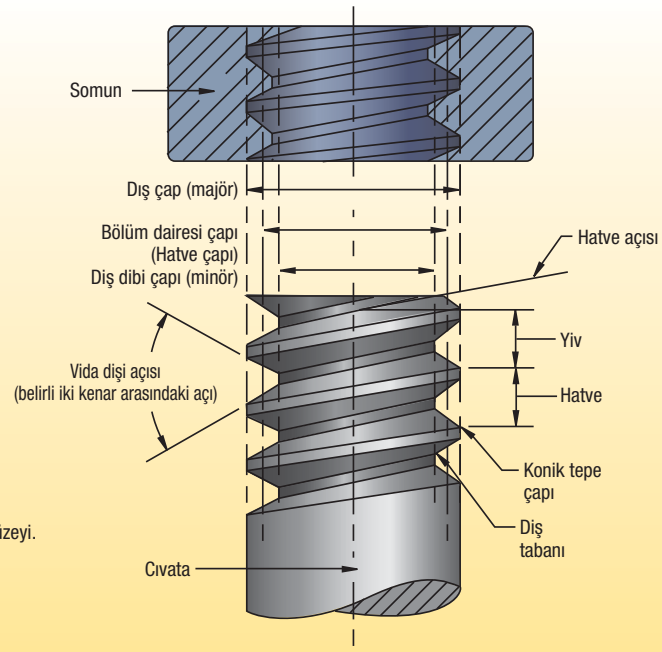
ϕ = Helis açısı
p = Hatve
d = Bölüm dairesi çapı (Hatve çapı)

$$\phi = \arctan\left(\frac{p * \text{Başlangıçlar}}{\pi * \varnothing}\right) = 1.13°$$



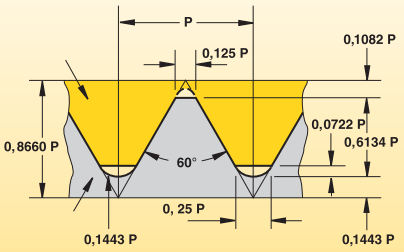
Cıvata vida dişi tanımları

1. **Dış çap —** En büyük düz vida dişi çapı. Bu, hem iç çap hem de dış çap vida dişleri için geçerlidir.
2. **Bölüm dairesi çapı (Hatve çapı) —** Düz bir vida dişinde, vida dişi profillerinden vida dişi genişliğini ana hatvenin yarısına eşit kılan noktalarda boydan boya geçen çaptır. "Mükemmel vida dişinde" bu durum vida dişi ve kanal genişliklerinin eşit olduğu noktada oluşur.
3. **Vida dişi açısı (belirli iki kenar arasındaki açı) —** Vida dişi şekli ile kendine özgü kesme sırtı yüzleri arasındaki belirli bir açı.
4. **Diş dibi çapı (minör) —** En küçük düz vida dişi çapı. Bu, hem iç çap hem de dış çap vida dişleri için geçerlidir.
5. **Yiv açısı —** Düz bir vida dişinde yiv açısı, vida dişi helisi tarafından eksene dik bir düzlem ile bölüm dairesi çapında (Hatve çapında) oluşturulan açıdır.
6. **Yiv —** Bir cıvata vida dişinin bir devirde eksenel olarak ilerlediği mesafe. Tek bir başlangıçta, hatve ve yiv aynıdır. Yiv, hatve süreleri başlangıç sayılarına eşittir.
7. **Hatve —** Vida dişi üzerindeki bir noktadan vida dişi eksenine paralel ölçülen sonraki vida dişi üzerinde karşılık gelen noktaya olan mesafe çapı.
8. **Konik tepe çapı —** Kesme sırtı yüzlerini birleştiren vida dişi şeklinin en dış yüzeyi.
9. **Diş tabanı —** Kesme sırtı yüzlerini birleştiren vida dişi şeklinin en iç yüzeyi.



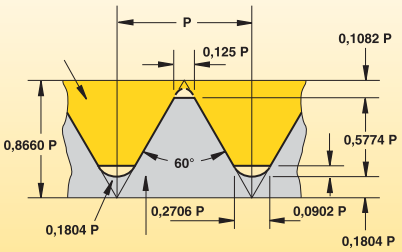
NOT: İnç başına vida dişi (TPI) gösterilmez:
İnç başına vida dişi sayısı eksenel ölçülür.
Hatve ve TPI terimleri, genellikle birbirlerinin yerine kullanılır.
TPI = 1/Hatve

ISO M (Metrik) ve UN (Tekdüze ulusal)



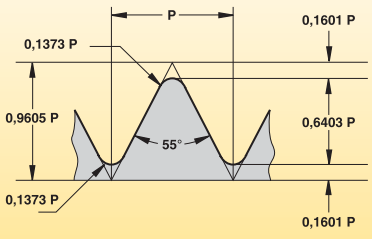
Kullanım yeri: Mekanik sektörünün tüm dalları.

UNJ (kontrollü diş tabanı radyüsü)



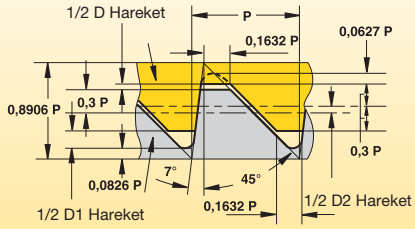
Kullanım yeri: Uçak ve uzay endüstrisi.

Whitworth (BSW)



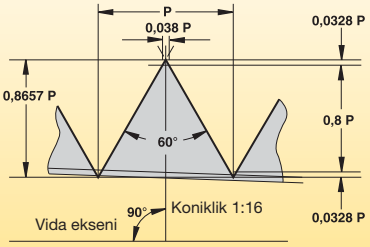
Kullanım yeri: Gaz, su ve kanalizasyon hatları bağlantı parçaları ve boru bağlantıları (ISO ile değiştirilmiştir).

Amerikan testere dis



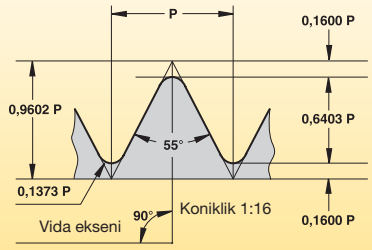
Kullanım yeri: Bağlantı parçaları ve boru bağlantıları.

NPT (Amerikan ulusal boru vida dişi)



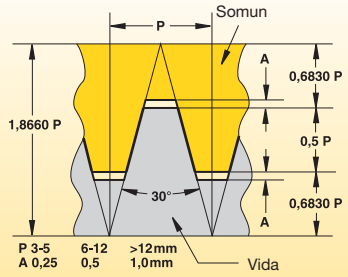
Kullanım yeri: Bağlantı parçaları ve boru bağlantıları.

BSPT (İngiliz standart boru vida dişi)



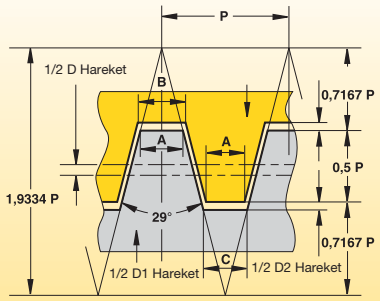
Kullanım yeri: Buhar, gaz ve su hatları için boru vida dişi.

TR DIN 103



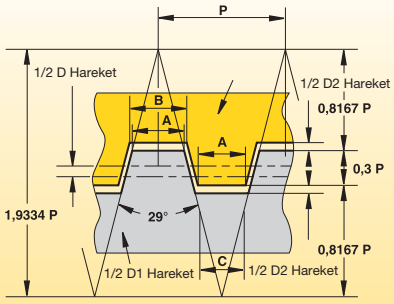
Kullanım yeri: Hareket iletim vidaları için mekanik sanayi.

Acme



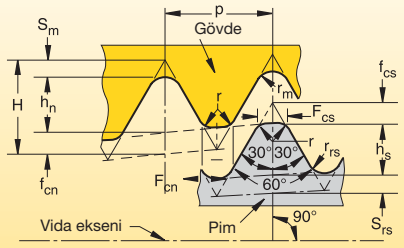
A = 0,0307 P
B = 0,3707 P—x D oynama payı
C = 0,3707 P—(D1 oynama payı —D2 oynama payı)
Kullanım yeri: Acme- Genel olarak hareketli transmisyon vidaları için mekanik sanayinde kullanılmaktadır.

Acme, ucu kesilmis vida disi (kalan kök)



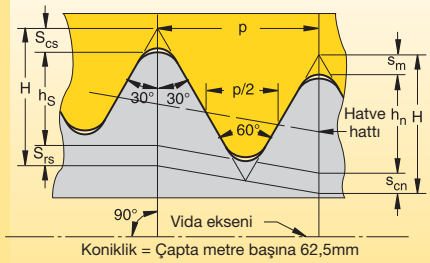
A = 0,4224 P
B = 0,4224 P—x D oynama payı
C = 0,4224 P—(D1 oynama payı —D2 oynama payı)
Kullanım yeri: Standart Acme çok derin olduğunda.

API Döner dik kenar bağlantısı



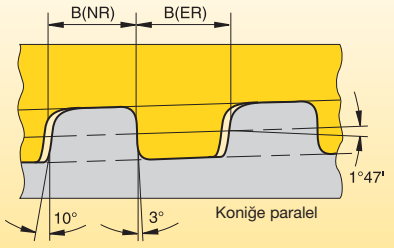
NOT: Gösterilen koniklik abartılıdır.

API Gövde ve boru yuvarlak vida disi sekli



NOT: Gösterilen koniklik abartılıdır.

API Testere dişi

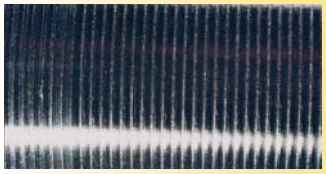


Çeşitli iş parçası malzemelerinde vida dişi tornalama için önerilen kalite ve hızlar

İş parçası grubu	iş parçası malzemesi	Önerilen yüzey hızı — Yüzey ilerleme/dk. (SFM)				
		Kaplamasız	PVD Kaplamalı			
		K68	KC5010	KC5025	KC5410	KU25T
Kolay işlenebilir karbon çeliği	10L18, 10L45, 1213, 12L13, 12L14, 1140, 1141, 11L44, 1151, 10L50	—	91–198	45–198	—	91–137
Alaşımsız karbon çeliği	10063, 1008, 1010, 1015, 1018, 1020, 1025, 1026, 1108, 1117	—	76–198	45–175	—	76–122
Alaşımlı çelikler/Takım çelikleri 150–325 HB (35 HRC' ye kadar)	1042, 1045, 1070, 1080, 1085, 1090, 1095, 1541, 1561, 1572, 5140, 8620, W1, O1, S1, P20, H13, D2, A6, H13, L6	—	76–198	38–167	—	73–122
Alaşımlı çelikler/Takım çelikleri 330–450 HB (36–47 HRC' ye kadar)		—	61–160	—	—	61–106
Martensitik/Ferritik Paslanmaz/Çökelterek sertleştirme	416, 420F, 440F, 405, 409, 429, 430, 434, 436, 442, PH	—	45–160	30–122	—	24–61
Ostenitik paslanmaz çelik	201, 202, 301, 302, 303, 304, 304, 305, 321, 347, 348, 310, 314, 316, 316L, 330	61–106	61–198	46–137	—	24–106
Gri dökme demir 135–270 HB	Kalite 20, 30, 35, 45	61–91	61–237	46–122	—	30–110
Gri dökme demir 275–450 HB	Kalite 50, 55, 60	45–76	45–175	15–76	—	30–110
Alaşım/Dövülgen (düktil) demir	A536, J434C, 60-40-18, 80-55-06, 100-70-03	45–76	45–198	30–160	—	30–110
Kolay işlenebilir alüminyum alaşımlar	2024-T4, 2014-T6, 6061-T6 2011-T3, 3003-H18, A2, Alcan, Alcoa 510, Duralümin	122–244	122–365	—	152–457	30–305
Yüksek silikonlu alüminyum alaşımlar	A380, A390, A380-1, A390-1, A380-2	—	—	—	—	—
Bakır/Çinko/Pirinç		76–183	76–304	46–236	—	30–244
Metal olmayan malzemeler	Grafit, Naylon, Plastik, Kauçuk, Fenolik, Karbon	122–457	122–396	46–305	—	30–244
Isıl dirençli alaşımlar 125–269 HB (27 HRC' ye kadar)	Nikel 200, Monel, R405, Monel K500, INCONEL 600, INCONEL® 625/901x750/718, Waspaloy, Hastelloy C	24–37	24–122	13–76	—	11–85
Isıl dirençli alaşımlar 260–450 HB (26–47 HRC' ye kadar)	Rene 95, Waspaloy A286, Incoloy 800, Haynes 188, Stellite F, Haynes 25	24–30	30–76	6–61	—	11–61
Titanyum alaşımlar	Ti-6Al-4V, TI-5Al-2.5Sn	34–55	34–99	—	—	11–76

NOT: İş parçası sertlik düzeyleri aralığın üstünde olduğunda, başlangıç yüzey ilerleme / dk. değeri daha düşük düzeyde olmalıdır. Kesici uç bağlama çeneleri aşınan düz yüzeylerin zamanında saptanması için sürekli kontrol edilir.

Kenar hazırlama:
Kaplamasız – Keskin
PVD kaplamalı – Pozitif uç kesme sırtı hafif honlama, uç kesme sırtı keskinliği

Sorun	Neden	Olası çözüm
Hassas son işlemeli kopuk vida dişi 	• Küt baş • Hassas son isleme sonrası yüzey pürüzlülüğü (kopuk vida dişi). • Kademeler. • Yanlış altlık. • Yanlış kesme derinliği ilerlemesi.	• Şekli değiştirilmiş kesme sırtı yüzü kesme derinliği ilerlemesi kullanılır. • Tam profilli kesici uç kullanılır. • Soğutma sıvısı karışımı artırılır. • Yüzey ilerleme m/dk. • Tezgahın hareketli “Z” ekseni kontrol edilir. • Kesici uç şekli kontrol edilir. • Yatık konumda vida dişi tornalama sisteminde altlığın doğru olup olmadığı kontrol edilir. • Kesme sırtı yüzü boşluğu hesaplanır.
Kavrama ve salınım titreşimi 	• Düşük rijitlik. • Hareketli kesici uç. • Yanlış kesme derinliği ilerlemesi. • Merkezden kaçıklık.	• Şekli değiştirilmiş kesme sırtı yüzü kesme derinliği ilerlemesi kullanılır. • Takım bağlama boyu kısaltılır. • İş parçasında sapma olup olmadığı kontrol edilir. • Kesme ucu ve bağlama çenesi kontrol edilir. • Kesici takım konumunun iş parçası merkez hattında olduğundan emin olunmalıdır. • Geçişli işleme sayısı ayarlanır. Daha az geçişli işleme salınım titreşimini azaltır.
Kesme kenarında talaş yapışması 	• Çok düşük hız. • Yetersiz soğutma sıvısı beslemesi. • Talaş yükü.	• Yüzey ilerleme m/dk. • Soğutma sıvısı karışımı ve, veya beslemesi artırın. • Kesme derinliği ilerleme açısı ayarlanır. • Geçişli ilerleme başına kesme derinliği artırılır.
Biçim değişimi 	• Yanlış kalite. • Hız çok yüksek. • Yanlış kesme derinliği ilerleme açısı. • Yetersiz soğutma sıvısı beslemesi.	• Şekli değiştirilmiş kesme sırtı yüzü kesme derinliği ilerlemesi kullanılır. • Aşınmaya daha fazla dayanıklı kalite kullanılır (örn. KC5010™). • Yüzey ilerleme/dk. azaltılır. • Soğutma sıvısı beslemesi artırılır.
Talaş kaynaması  	• Yanlış kesme derinliği ilerlemesi. • Talaş yükü. • Yanlış kalite. • Yanlış hız. • Düşük rijitlik.	• Şekli değiştirilmiş kesme sırtı yüzü kesme derinliği ilerlemesi kullanılır. • Geçişli ilerleme sayısı artırılır veya azaltılır. • Yay şekilli geçişli işlemeye son verilir. • Daha tok kalite kullanılır (örn. KC5025™). • Talaş kaynaması tarama yapan kesme ağzında ise, yüzey ilerleme/dk. artırılır. • Talaş kaynaması yaklaşma kenarında ise, yüzey ilerleme/dk. azaltılır. • Takım bağlama boyu kısaltılır. • Kesici ucun hareket edip etmediği veya bağlama çenesi kontrol edilir. Vida veya çene torkunun doğru değerde olması gerekir. • Olası parça sapması kontrol edilir. • Kesme sırtı yüzü boşluğu hesaplanır. • Doğru altlık kullanıldığından emin olunmalıdır.
Kırık köşe. 	• Ağır talaş yükü. • Küçük köşe radyüsü. • Yanlış kalite. • Yanlış kesme derinliği ilerlemesi.	• Şekli değiştirilmiş kesme sırtı yüzü kesme derinliği ilerlemesi kullanılır. • Talaş yükü azaltılır. • Mümkünse büyük köşe radyüsü kullanılır. • Daha tok kalite kullanılır (örn. KC5025).
Kesme sırtı yüzü aşınması. 	• Yanlış altlık. • Yanlış kalite. • Yetersiz soğutma sıvısı beslemesi. • Merkezden kaçıklık. • Yetersiz kesme sırtı yüzü boşluğu. • Yanlış kesme derinliği ilerleme açısı.	• Doğru altlık kullanıldığından emin olunmalıdır. • Aşınmaya karşı daha güçlü direnceye sahip kalite kullanılır (örn. KC5010™). • Soğutma sıvısı beslemesi artırılır. • Takım merkez hattı yüksekliği kontrol edilir. (Çap küçüldükçe, daha kritik hale gelen merkez hattı doğruluğuna gereksinim vardır.) • Kesme sırtı yüzü boşluğu hesaplanır ve aşınan altlık değiştirilir. Aşınan kesme sırtı yüzü boşluğu. • Aşınma dış kesme sırtı yüzünde ise, radyal kesme derinliği açısı boşluğu artırılır.

(devamı)

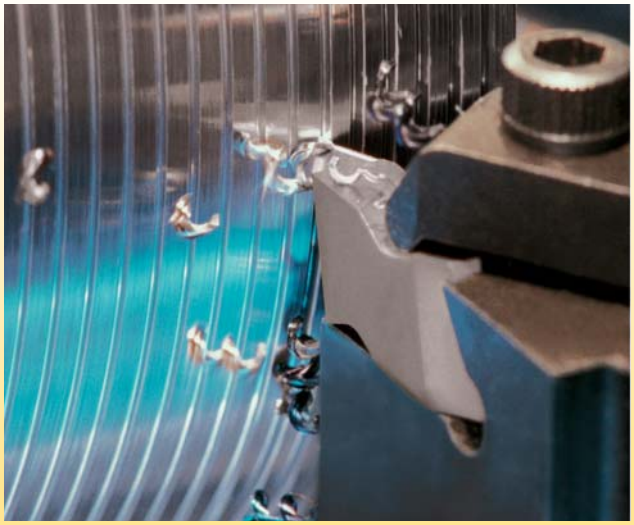
(Teknik bilgi • Hata ve çözüm rehberi — devamı)

Sorun	Olası çözüm																
	Yüzey ilerleme m/dk.	Yüzey ilerleme m/dk.	Talaş yükü artışı	Hatanın meydana geldiği yerde talaş yükünü azaltma	Daha tok karbür kalitesi kullanımı	Daha sert karbür kalitesi kullanımı	Soğuma sıvısı uygulama	Kaplamalı karbür kullanımı	Üstten bağlamalı kesici uç kullanımı	Kesme derinliği ilerleme açısını değiştirme	Kesici uç hareketini kontrol etme ve yeniden yerleştirme	Takım bağlantı boyunu kısaltma	Yeniden altlık seçme	Talaş kırıcı tip uygulama	Kesme derinliğini azaltma	Merkez yükseklik ayarı	İş parçasında önce 12mm ölçüsünde vida dişi kesmeye başlama	Radyal kesme derinliği yöntemini değiştirme
Kavrama ve salınım titreşimi	•			•							•	•				•		•
Tepe üstünde (ibikte) tornalama çapağı	•								•									•
Kısa takım ömrü		•	•	•		•		•										•
Çentilmiş kesme sırtı kenarı			•	•	•													
Çentilmiş tarama kenarı					•					•								
Kırık köşe (ilk geçişli işlemede)	•														•	•		
Kırık köşe (ilk geçişli işlemeden sonra)				•	•					•			•					•
Kesme ağzında talaş yapışması	•		•				•	•										•
Erken üst kaplama sorunu													•					
Kertiklenen vida dişleri																	•	
Yetersiz talaş boşaltma														•				•

Kennametal kesici uç teknolojisi, Top Notch™ gövdeli vida dişi tornalama işlemleriniz için talaş kontrolü sağlar. Önerilerimiz doğrultusunda kullanıldığında özel Kennametal oluklu talaş kanalı, çoğu uygulamada talaşı kontrol eder. Pozitif kesme sırtı tasarımımız, kesme baskısını düşürür ve dolayısıyla zarar verici ısı oluşumunu azaltır ve böylece daha iyi takım ömrü sağlar. Uzun, lifli talaşlar artık iş parçası hassas son işlemeli yüzeyi bozamaz. Operatörlerin uzun talaşları iş parçasından ve torna aynasından çıkartırken yaşadıkları tehlikeler ortadan kaldırılmıştır. Bu avantajların tümü, vida dişi tornalama işlemlerinizin verimliliğini artırmak için bir araya getirilmiştir.

Son geçişli işleme

Son geçisli işlemede talaş kırılması mümkün olmadığından, bazı CNC kontrollü sistemler, son geçisli işlemede 0° kesme derinligi ilerleme açısının kullanılmasını gerektirmektedir. Çoğu karbon ve alaşımlı çelikte son geçisli işleme 0,127mm kesme derinliğinde kalabilir ve kabul edilebilir bir hassas son işleme sağlayabilir. Bazı malzemelerde hassas son işlemeli yüzey iyileştirmek için 0,025mm ‘den 0,076mm ‘ye kadar yay şeklinde geçişli işleme uygulanabilir, ancak talaş kırma eylemi tehlikeye girebilir.

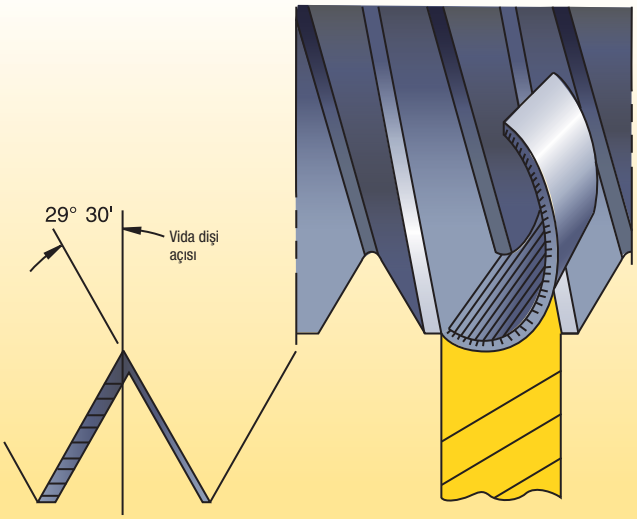


Tezgah programlama

Modern CNC kontrollü sistemler, programcının kesme derinliği ilerleme açısını, geçişli işleme sayısını ve her geçişli işleme için kesme derinliğini ayarlamasına olanak sağlar. Talaş kontrollü vida dişi tornalama ucu, 15° ‘den 30° ‘ye kadar kabul edilebilir olsa da, en iyi kesme derinliği ilerleme açısı 29° 30’ değerinde verimlilik sağlar. Ayrıca, her geçişli işlemede en az 0,127mm kesme derinliğinin korunması önemlidir. Uygulamaların çoğunda, CNC önceden hazırlanmış çevrimlerin kullanımı sadece çok az sayıda başarılı sonuçlar sağlamaktadır. Özel yazılım programları daha iyidir ve önerilir.

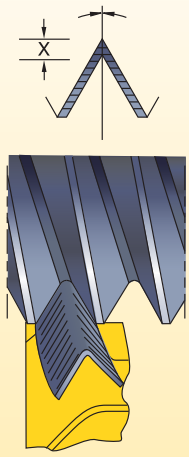
Kesme derinliği ilerleme açısı

Talaşı etkin ve sürekli bir şekilde kırabilmek için 28° ve 29° 30’ arasında bir kesme derinliği ilerleme açısı kullanılması önemlidir. Talaş kontrollü kesici uçlar 15° ‘den daha küçük açılarda uygulanmaz.



Radyal

Şekli değiştirilmiş kesme sırtı yüzü



Avantaj

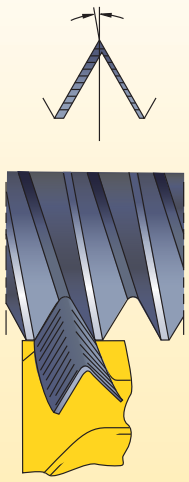
- Kesme işleminde kesme kenarı tam temas yapar, her iki taraftan keserek vida dişi şeklini oluşturur ve kenarı talaş kaynamasından korur.
- Kesici uçta aşınmayı bile engeller.

Olumsuz tarafı

- Takım, boşaltılması zor olabilecek kanal tipi talaş geliştirir.
- Yüksek gerilimli malzemeler keserken kesme ağzında talaş kaynaması oluşur.
- Tornalama çapağı oluşma durumu artar.
- Kesme kenarının bütünü ile hassas son işlemeli vida dişi birbirine girerek yüksek salınım titreşimi eğilimine neden olur.

Şekli değiştirilmiş kesme sırtı yüzü

Şekli değiştirilmiş kesme sırtı yüzü



Avantaj

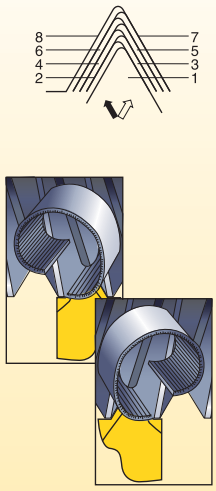
- Takım, vida dişi şeklinin her iki tarafını 0° kesme derinliği ilerlemesine benzer talaş kaynamasından koruyacak şekilde keser. Kanal tipi talaş oluşur, ancak talaş kalınlığı dengesiz olup, kesme sırtı yüzü talaşın kesme derinliği ilerlemesine uygun şekilde boşalmasını sağlar.
- Bu, özellikle bir talaş kontrollü kesici uç ile kullanıldığında tercih edilen bir yöntemdir.
- Radyal veya dalgalı kesme derinliği ilerlemeleri birleşimi.
- Her iki kesme sırtı yüzüne eşit dağıtılmış aşınma ile iyi bir takım ömrü elde edilir.

Olumsuz tarafı

- Kesme kuvvetleri daha iyi eşitlenmiş ve talaş akışı çok daha az sorun oluştururken büyüklüğü biraz azalmış olsa da, 0° kesme derinliği ilerlemesi ile benzer olumsuzlukları vardır.

Dalgalı kesme sırtı yüzü

Dalgalı kesme sırtı yüzü



Avantaj

- Her iki kenar eşit kullanıldığından takım ömrü uzar.

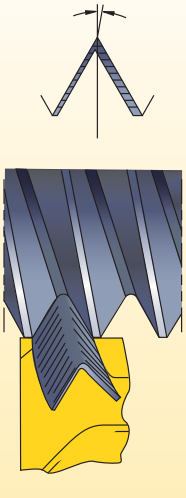
NOT: Bazı takım tezgahlarında bu kesme derinliği ilerleme yöntemini elde etmek için özel programlama teknikleri gerekebilir.

Olumsuz tarafı

- Geleneksel tezgahta kesme zordur.

Tersten şekli değiştirilmiş kesme sırtı yüzü

Şekli değiştirilmiş kesme sırtı yüzü



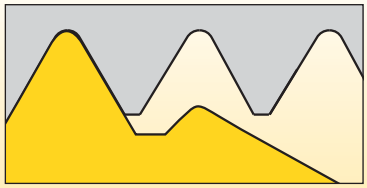
Avantaj

- Takım, vida dişi şeklinin her iki tarafını 0° kesme derinliği ilerlemesine benzer talaş kaynamasından koruyacak şekilde keser. Kanal tipi talaş oluşur, ancak talaş kalınlığı dengesiz olup, kesme sırtı yüzü talaşın kesme derinliği ilerlemesine uygun şekilde boşalmasını sağlar.
- Bu, özellikle bir talaş kontrollü kesici uç ile kullanıldığında tercih edilen bir yöntemdir.
- Radyal veya dalgalı kesme derinliği ilerlemeleri birleşimi.
- Her iki kesme sırtı yüzüne eşit dağıtılmış aşınma ile iyi bir takım ömrü elde edilir.
- Talaş akışı ters ilerleme yönü olduğundan, iç çap vida dişi tornalama için mükemmel bir seçimdir.

Olumsuz tarafı

- Programlamanın satır satır yapılması gerekmektedir.

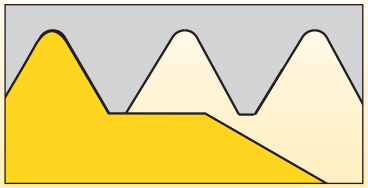
Kısmi profil



Genel kullanım amaçlı profil şekilli vida dişi profili:

- Düşük sayıda stokta bulundurma
- Sınırlı bir aralıktaki çeşitli hatveler için.
- Dış çaplar/Diş dibi çapları, doğru ön tornalanmış olmalıdır.

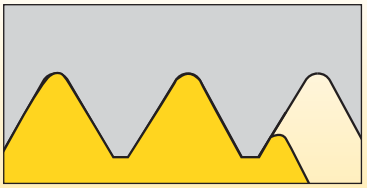
Dolu profil



Diş yüksekliği dahil, dolu profil şekilli vida dişi profili:

- Belirtilen hatvede çapaksız, hassas vida dişleri için.
- Genel uygulama.
- Dış çap/ Öz çap için işleme toleransı yaklaşık .004–.006".

Çoklu dişli profil



Genellikle 2–3 dişli çoklu dişli dolu profil:

- Daha az geçişli işleme ile son derece verimli vida dişi tornalama ve daha uzun takım ömrü.
- Rijit bir kurulum ve uzun vida dişi geçişli işleme gerektirir.

Formüller

Metrik formül		
Belirli bir	**formülü**	**bulmak için**
m/dk.	D (mm) RPM	$m/dk. = \frac{\pi \times D}{1000} \times RPM$
RPM	D (mm) m/dk.	$RPM = \frac{m/dk. \times 1000}{D \times \pi}$

Açıklamalar

mm/dk.	=	Dakikada alınan metre
RPM	=	Dakika başına devir sayısı
D	=	Parça çapı
π	=	3,1416

Maksimum kesme hızları

Eski tezgahlarda kesme hızı genellikle maksimum hareket hızı ile sınırlıdır Tezgahın izin verdiği takımın (IPM veya mm/dk.). Aşağıdaki formülü kullanarak Maksimum hızı kontrol etme:

Metrik formül: maksimum kesme hızı (m/dk.) =
Parça çapı (mm) x 3.14 x (1/hatve) x $\frac{\text{maks. mm/dk}}{1000\text{mm}}$.

Kesme sırtı yüzü boşluğu

γ = arctan (sin (β/2) * tan(α))
γ = Yan (kesme sırtı yüzü) boşluk açısı
β = Eklenen vida işi şekil açısı
α = Radyal eğim açısı

Vida dişi	Açı	Dış çap	İç çap
UN & ISO	60	5,3	8
BSW	55	4,8	7,3
TR	30	2,6	4
ACME	29	2,6	3,9
AMBUT	7	.6	.9
AMBUT	45	4	6

Vida dişi tornalamada kesme derinliği geçişli işleme ilerlemesi için öneriler

TPI	48–32	28–24	20–16	14–12	11,5–9	8–6	5–4	3–2
Metrik hatve (mm)	0,50–0,75	0,80–1	1,25–1,5	1,75–2	2,5–3	3,5–4	4,5–6	8,0
Vida dişi tipi	**Önerilen geçişli işleme sayısı**							
Yaygın kullanılan V vida dişi şekilleri ISO, UN, UNJ, NPT, Whitworth, BSPT, API Döner dik kenar	4–5	5–6	6–8	8–10	9–12	12–15	14–16	15–25
Acme, Trapez, Yuvarlak, API Yuvarlak	—	—	5–6	7–8	10–11	12–13	13–15	18–20
Kalan kök Acme, API testere dis	—	—	5	5–6	7–8	8–10	10–12	14–16
Amerikan testere dis	—	—	7–8	9–10	11–12	13–15	17–19	22–24

NOT: Vida dişi tornalama takımının işlerken sertleşmesini ve aşırı aşınmasını önlemek için son geçişli işlemede en az .0,05mm kesme derinliği ilerlemesi sağlanır.

Vida dişi işlemleri için sabit hacim kesme derinliği ilerleme değerleri

Uygulamaların çoğunda, önceden hazırlanmış CNC çevrimlerin kullanımı sadece sınırlı sayıda başarılı sonuçlar sağlamaktadır. Örneğin, 8 hatveli bir dış çap vida dişi 2mm (.0789") derinliğe sahiptir.

$$\Delta ap_X = \frac{ap}{\sqrt{nap-1}} * \sqrt{\phi}$$

Sabit talaş yükü kesme derinliği ilerlemesi için formül

Δap = Radyal kesme derinliği ilerlemesi
x = Gerçek geçişli işleme (1' den nap' e kadar)
nap = Geçişli işleme sayısı
ϕ = 1. Geçişli işleme, 0.3
2. Geçişli işleme, 1
3. Geçişli işleme ve üzeri, x-1

Radyal kesme derinliği ilerlemesini kullanma

Kesme kenarında bükülme gerilimi uzun talaş veren çelik iş parçası malzemelerde V şekilli talaşların oluşmasına neden olur.

Küçük kesme kalınlıklarında yüksek kesme kuvvetleri, yüksek dayanımlı kesme kenarları gerektirir.

Kesme sırtı yüzü kesme derinliği ilerlemesini kullanma

Düşük bükülme gerilimi ve dengeli kesme kenarları daha uygun talaş şekilleri ve daha büyük kesme kalınlıkları oluşturur.

Yüksek sertliğe, iyi aşınma direncine ve ısı dengesine sahip karbür avantaj sağlar.

Kesme derinliği ilerlemeleri için kurallar—
Geçişli işleme sayısı ve ölçüsü nasıl belirlenir?

Vida dişi başına geçiş "s" sayısı, başarılı vida dişi tornalama ve konik tepe çapı tornalama için belirleyicidir. Aşağıdaki tablolarda çeliğin işlenmesi sırasındaki uygulama koşuluna ilişkin standart değerler verilmektedir. Uygun geçişli işleme sayısı denemeler sonucu saptanmalıdır.

Kesici uç kırılması oluşursa, geçişli işleme sayısı arttırılmalıdır. Aşınmanın artması durumunda, geçişli işleme sayısının azaltılmasını önermekteyiz. Talaş kalınlığı 0,05mm' den daha az olmamalıdır. Çaptaki pay 0,2mm' yi aşmamalıdır.

Metrik ISO, Dış çap vida dişi tornalama

Vida dişi hatve P (mm)	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,50	3,00	3,50	4,00	4,50	5,00
T Ap (mm)	0.305	0.457	0.610	0.762	0.914	1.067	1.219	1.524	1.829	2.159	2.464	2.769	3.073
N Ap	4	4	5	6	6	8	8	10	12	14	15	15	16
	Kesme sırtı yüzü kesme derinliği ilerlemesi için değerler (X/Z)												
Geçişli işleme sırası	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.096	0.145	0.167	0.187	0.224	0.221	0.252	0.278	0.302	0.328	0.361	0.405	0.435
2	0.080	0.119	0.138	0.154	0.185	0.182	0.208	0.230	0.249	0.271	0.298	0.335	0.359
3	0.073	0.109	0.126	0.141	0.169	0.167	0.191	0.210	0.228	0.248	0.273	0.306	0.329
4	0.056	0.084	0.097	0.108	0.130	0.128	0.146	0.161	0.175	0.190	0.209	0.235	0.252
5			0.082	0.091	0.110	0.108	0.123	0.136	0.148	0.160	0.176	0.198	0.213
6				0.080	0.097	0.095	0.109	0.120	0.130	0.141	0.155	0.175	0.187
7						0.086	0.098	0.108	0.118	0.128	0.141	0.158	0.169
8						0.079	0.090	0.100	0.108	0.118	0.129	0.145	0.156
9								0.093	0.101	0.109	0.120	0.135	0.145
10								0.087	0.095	0.103	0.113	0.127	0.136
11									0.089	0.097	0.107	0.120	0.129
12									0.085	0.092	0.102	0.114	0.122
13										0.088	0.097	0.109	0.117
14										0.085	0.093	0.105	0.112
15											0.090	0.101	0.108
16													0.104
T Ap (mm)	0.305	0.457	0.610	0.762	0.914	1.067	1.219	1.524	1.829	2.159	2.464	2.769	3.073

NOT: Tam profilli kesici uçlar için her zaman 0,08–0,13mm ekstra talaş kaldırma miktarına izin verir.

Metrik ISO, İç çap vida dişi tornalama

Vida dişi hatve P (mm)	0,50	0,75	1,00	1,25	1,50	1,75	2,00	2,50	3,00	3,50	4,00	4,50	5,00
T Ap (mm)	0.279	0.406	0.533	0.686	0.813	0.940	1.092	1.346	1.626	1.905	2.159	2.438	2.718
N Ap	4	4	5	6	6	8	8	10	11	12	14	15	16
	Kesme sırtı yüzü kesme derinliği ilerlemesi için değerler (X/Z)												
Geçişli işleme sırası	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.088	0.129	0.146	0.168	0.199	0.195	0.226	0.246	0.282	0.315	0.328	0.357	0.384
2	0.073	0.106	0.121	0.139	0.164	0.161	0.187	0.203	0.232	0.260	0.271	0.295	0.317
3	0.067	0.097	0.110	0.127	0.151	0.147	0.171	0.186	0.213	0.238	0.248	0.270	0.291
4	0.051	0.075	0.085	0.097	0.116	0.113	0.131	0.143	0.163	0.183	0.190	0.207	0.223
5			0.071	0.082	0.097	0.095	0.111	0.120	0.138	0.154	0.160	0.175	0.188
6				0.072	0.086	0.084	0.097	0.106	0.121	0.136	0.141	0.154	0.166
7						0.076	0.088	0.096	0.110	0.123	0.128	0.139	0.150
8						0.070	0.081	0.088	0.101	0.113	0.118	0.128	0.138
9								0.082	0.094	0.105	0.109	0.119	0.128
10								0.077	0.088	0.099	0.103	0.112	0.120
11									0.083	0.093	0.097	0.106	0.114
12									0.000	0.089	0.092	0.101	0.108
13										0.000	0.088	0.096	0.103
14										0.000	0.085	0.092	0.099
15											0.000	0.089	0.096
16													0.092
T Ap (mm)	0.279	0.406	0.533	0.686	0.813	0.940	1.092	1.346	1.626	1.905	2.159	2.438	2.718

NOT: Tam profilli kesici uçlar için her zaman 0,08–0,13mm ekstra talaş kaldırma miktarına izin verir.

UN Vida dişi, dış çap vida dişi tornalama

TPI	24	20	18	16	14	12	11	10	9	8	7	6	5
T Ap (mm)	0.660	0.787	0.864	0.965	0.914	1.067	1.219	1.524	1.829	2.159	2.464	2.769	3.073
N Ap	5	6	6	7	9	9	10	11	12	13	14	15	16
	Kesme sırtı yüzü kesme derinliği ilerlemesi için değerler (X/Z)												
Geçişli işleme sırası	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.181	0.193	0.212	0.216	0.177	0.207	0.223	0.264	0.302	0.341	0.374	0.405	0.435
2	0.149	0.159	0.175	0.178	0.146	0.171	0.184	0.218	0.249	0.282	0.309	0.335	0.359
3	0.137	0.146	0.160	0.163	0.134	0.156	0.168	0.200	0.228	0.258	0.283	0.306	0.329
4	0.105	0.112	0.123	0.125	0.103	0.120	0.129	0.153	0.175	0.198	0.217	0.235	0.252
5	0.088	0.094	0.103	0.106	0.087	0.101	0.109	0.129	0.148	0.167	0.183	0.198	0.213
6		0.083	0.091	0.093	0.076	0.089	0.096	0.114	0.130	0.147	0.161	0.175	0.187
7				0.084	0.069	0.080	0.087	0.103	0.118	0.133	0.146	0.158	0.169
8					0.063	0.074	0.080	0.095	0.108	0.122	0.134	0.145	0.156
9					0.059	0.069	0.074	0.088	0.101	0.114	0.125	0.135	0.145
10							0.070	0.083	0.095	0.107	0.117	0.127	0.136
11								0.078	0.089	0.101	0.111	0.120	0.129
12									0.085	0.096	0.105	0.114	0.122
13										0.092	0.101	0.109	0.117
14											0.097	0.105	0.112
15												0.101	0.108
16													0.104
T Ap (mm)	0.660	0.787	0.864	0.965	0.914	1.067	1.219	1.524	1.829	2.159	2.464	2.769	3.073

NOT: Daima 0,08 izin verilir–Tam profi lli kesici uçlar için 0,13mm ekstra talas miktarı.

UN Vida dişi, iç çap vida dişi tornalama

TPI	24	20	18	16	14	12	11	10	9	8	7	6	5
T Ap (mm)	0.584	0.686	0.762	0.864	0.991	1.143	1.245	1.372	1.524	1.727	1.956	2.286	2.743
N Ap	5	6	6	7	8	9	9	10	11	12	13	14	15
	Kesme sırtı yüzü kesme derinliği ilerlemesi için değerler (X/Z)												
Geçişli işleme sırası	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.160	0.168	0.187	0.193	0.205	0.221	0.241	0.250	0.264	0.285	0.309	0.347	0.402
2	0.132	0.139	0.154	0.159	0.169	0.183	0.199	0.207	0.218	0.236	0.255	0.287	0.332
3	0.121	0.127	0.141	0.146	0.155	0.167	0.182	0.189	0.200	0.216	0.234	0.263	0.304
4	0.093	0.097	0.108	0.112	0.119	0.128	0.140	0.145	0.153	0.166	0.179	0.202	0.233
5	0.078	0.082	0.091	0.094	0.100	0.108	0.118	0.123	0.129	0.140	0.151	0.170	0.196
6		0.072	0.080	0.083	0.088	0.095	0.104	0.108	0.114	0.123	0.133	0.150	0.173
7				0.075	0.080	0.086	0.094	0.098	0.103	0.111	0.120	0.135	0.156
8					0.073	0.079	0.086	0.090	0.095	0.102	0.111	0.124	0.144
9						0.074	0.080	0.084	0.088	0.095	0.103	0.116	0.134
10								0.078	0.083	0.089	0.097	0.109	0.126
11									0.078	0.085	0.092	0.103	0.119
12										0.080	0.087	0.098	0.113
13											0.083	0.094	0.108
14											0.080	0.090	0.104
15													0.100
16													
T Ap (mm)	0.584	0.686	0.762	0.864	0.991	1.143	1.245	1.372	1.524	1.727	2.036	2.286	2.743

NOT: Daima 0,08 izin verilir–Tam profi lli kesici uçlar için 0,13mm ekstra talas miktarı.

NPT Vida dişi, dış çap vida dişi tornalama

TPI	27	18	14	11,5	8
T Ap (mm)	0.762	1.118	1.422	1.727	2.489
N Ap	6	8	10	12	14
	Kesme sırtı yüzü kesme derinliği ilerlemesi için değerler (X/Z)				
Geçişli işleme sırası	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.187	0.231	0.260	0.285	0.378
2	0.154	0.191	0.214	0.236	0.312
3	0.141	0.175	0.196	0.216	0.286
4	0.108	0.134	0.151	0.166	0.219
5	0.091	0.113	0.127	0.140	0.185
6	0.080	0.100	0.112	0.123	0.163
7		0.090	0.101	0.111	0.147
8		0.083	0.093	0.102	0.135
9			0.087	0.095	0.126
10			0.081	0.089	0.118
11				0.085	0.112
12				0.080	0.107
13					0.102
14					0.098
15					
16					
T Ap (mm)	0.762	1.118	1.422	1.727	2.489

BSPT Vida dişi, dış çap ve iç çap işleme

TPI	28	19	14	11
T Ap (mm)	0.584	0.864	1.168	1.448
N Ap	5	8	10	12
	Kesme sırtı yüzü kesme derinliği ilerlemesi için değerler (X/Z)			
Geçişli işleme sırası	X/Z	X/Z	X/Z	X/Z
1	0.160	0.179	0.213	0.239
2	0.132	0.148	0.176	0.197
3	0.121	0.135	0.161	0.181
4	0.093	0.104	0.124	0.139
5	0.078	0.087	0.104	0.117
6		0.077	0.092	0.103
7		0.070	0.083	0.093
8		0.064	0.076	0.086
9			0.071	0.080
10			0.067	0.075
11				0.071
12				0.067
13				
14				
15				
16				
T Ap (mm)	0.584	0.864	1.168	1.448

NOT: Daima 0,08 izin verilir–Tam profi lli kesici uçlar için 0,13mm ekstra talas miktarı.

DIN 103 için Trapez vida dişi, dış çap ve iç çap işleme

Hatve	1,5	2	3	4	5
T Ap (mm)	1.016	1.245	1.753	2.261	2.743
N Ap	6	8	10	12	14
	Kesme sırtı yüzü kesme derinliği ilerlemesi için değerler (X/Z)				
Geçişli işleme sırası	X/Z	X/Z	X/Z	X/Z	X/Z
1	0.249	0.258	0.320	0.373	0.417
2	0.206	0.213	0.264	0.308	0.344
3	0.188	0.195	0.242	0.282	0.315
4	0.144	0.150	0.186	0.217	0.242
5	0.122	0.126	0.157	0.183	0.204
6	0.107	0.111	0.138	0.161	0.180
7		0.100	0.125	0.145	0.162
8		0.092	0.115	0.134	0.149
9			0.107	0.125	0.139
10			0.100	0.117	0.131
11				0.111	0.123
12				0.105	0.117
13					0.112
14					0.108
15					
16					
T Ap (mm)	1.016	1.245	1.753	2.261	2.743

DIN 405 için yuvarlak vida dişi, dış çap ve iç çap işleme

Hatve	10	8	6
T Ap (mm)	1.321	1.626	2.159
N Ap	8	10	12
	Kesme sırtı yüzü kesme derinliği ilerlemesi için değerler (X/Z)		
Geçişli işleme sırası	X/Z	X/Z	X/Z
1	0.273	0.297	0.357
2	0.226	0.245	0.294
3	0.207	0.224	0.270
4	0.159	0.172	0.207
5	0.134	0.145	0.174
6	0.118	0.128	0.154
7	0.107	0.116	0.139
8	0.098	0.106	0.128
9		0.099	0.119
10		0.093	0.112
11			0.106
12			0.100
13			
14			
15			
16			
T Ap (mm)	1.321	1.626	2.159

NOT: Daima 0,08 izin verilir–Tam profi lli kesici uçlar için 0,13mm ekstra talas miktarı.

Whitworth, Dış çap ve iç çap vida dişi tornalama

TPI	28	20	19	16	14	12	11	10	9	8	7	6	5
T Ap (mm)	0,584	0,813	0,813	0,864	1,016	1,346	1,473	1,626	1,803	2,032	2,311	2,718	3,251
N Ap	5	6	6	8	8	9	9	10	11	12	14	15	16
	Kesme sırtı yüzü kesme derinliği ilerlemesi için değerler (X/Z)												
Geçişli işleme sırası	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	0,160	0,199	0,199	0,179	0,210	0,261	0,285	0,297	0,312	0,336	0,351	0,398	0,460
2	0,132	0,164	0,164	0,148	0,174	0,215	0,236	0,245	0,258	0,277	0,290	0,329	0,380
3	0,121	0,151	0,151	0,135	0,159	0,197	0,216	0,224	0,236	0,254	0,266	0,301	0,348
4	0,093	0,116	0,116	0,104	0,122	0,151	0,166	0,172	0,181	0,195	0,204	0,231	0,267
5	0,078	0,097	0,097	0,087	0,103	0,128	0,140	0,145	0,153	0,164	0,172	0,195	0,225
6		0,086	0,086	0,077	0,091	0,112	0,123	0,128	0,135	0,145	0,151	0,171	0,198
7				0,070	0,082	0,102	0,111	0,116	0,122	0,131	0,137	0,155	0,179
8				0,064	0,075	0,093	0,102	0,106	0,112	0,120	0,126	0,143	0,165
9						0,087	0,095	0,099	0,104	0,112	0,117	0,133	0,153
10								0,093	0,098	0,105	0,110	0,125	0,144
11									0,093	0,099	0,104	0,118	0,136
12										0,095	0,099	0,112	0,130
13											0,095	0,107	0,124
14											0,091	0,103	0,119
15												0,099	0,114
16													0,110
T Ap (mm)	0,584	0,813	0,813	0,864	1,016	1,346	1,473	1,626	1,803	2,032	2,311	2,718	3,251

NOT: Daima 0,08 izin verilir–Tam profi lli kesici uçlar için 0,13mm ekstra talas miktarı.

Çoklu dişli vida dişleri, İç çap

	ISO Metrik						ISO UN					Whitworth	NPT		
Tip	3M	2M	3M	2M	3M	2M	2M	3M	2M	3M	2M	2M	2M	3M	2M
Hatve (mm)	1,0	1,5	1,5	2,0	2,0	3,0	—	—	—	—	—	—	—	—	—
TPI	—	—	—	—	—	—	16	16	12	12	8	11	11,5	11,5	8
Toplam derinlik	0,609	0,838	0,838	1,168	1,168	1,778	0,939	0,939	1,245	1,245	1,880	1,575	1,753	1,753	2,540
1	0,330	0,381	0,508	0,508	0,711	0,558	0,431	0,558	0,558	0,762	0,584	0,736	0,584	0,812	0,889
2	0,279	0,254	0,330	0,381	0,457	0,482	0,304	0,381	0,406	0,482	0,508	0,482	0,508	0,558	0,635
3	—	0,203	—	0,279	—	0,431	0,203	—	0,279	—	0,431	0,355	0,355	0,3815	0,558
4	—	—	—	—	—	0,304	—	—	—	—	0,355	—	0,304	—	0,457

Çelik iş parçaları için öneriler (<300 BHN)

			Toplam derinlik — Radyüste		
Katalog numarası	Kesici uç ölçüsü	TPI profili	1. Geçişli işleme	2. Geçişli işleme	3. Geçişli işleme
NTC-8R/L8EM	8	8 UN	1,21	1,63	2,00
NTC-8R/L8IM	8	8 UN	1,19	1,55	1,88
NTC-8R/L10EM	8	10 UN	0,92	1,27	1,60
NTC-8R/L10IM	8	10 UN	0,90	1,22	1,52
NTC-8R/L12EM	8	12 UN	0,76	1,04	1,32
NTC-8R/L12IM	8	12 UN	0,76	0,93	1,20
NTC-8R/L14EM	8	14 UN	0,68	0,95	1,12
NTC-8R/L14IM	8	14 UN	0,60	0,78	1,04
NTC-8R/L16EM 8	8	16 UN	0,58	0,81	0,96
NTC-8R/L16IM	8	16 UN	0,50	0,68	0,93
NTC-8R/L18EM	8	18 UN	0,48	0,66	0,86
NTC-8R/L18IM	8	18 UN	0,48	0,60	0,83
NDC-68RDR/L-75M	8	8 Yuvarlak	1,47	1,65	1,85
NDC-61RDR/L-75M	8	10 Yuvarlak	1,11	1,29	1,45
NDC-88RDRD/L-75M	8	8 Yuvarlak	1,29	1,75	1,85
NDC-88VR/L-75M	8	8 NPT	1,01	1,72	2,45
NDC-8115VR/L-75M	8	11,5 NPT	0,96	1,37	1,70
NDN-814VR/L-75M	8	14 NPT	0,96	1,22	1,36

NOT: Daima 0,08 izin verilir–Tam profi lli kesici uçlar için 0,13mm ekstra talas miktarı.

ACME, Dış çap

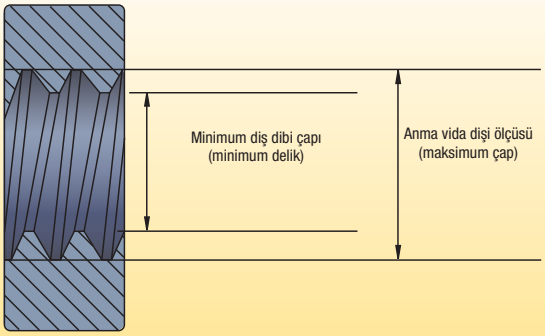
TPI	28	20	19	16	14	12	11	10	9	8	7	6	5
T Ap	.028	.032	.032	.034	.040	.053	.058	.064	.071	.080	.091	.107	0.128
N Ap	5	6	6	8	8	9	9	10	11	12	14	15	16
	Kesme sırtı yüzü kesme derinliği ilerlemesi için değerler (X/Z)												
Geçişli işleme sırası	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	.039	.041	.050	.063	.074	.095	.112	.138	.180	.256	.008/-	.008/-	.008/-
2	.009	.008	.009	.010	.010	.011	.012	.013	.019	.028	.013/.007	.014/.007	.017/.009
3	.009	.008	.009	.009	.010	.011	.011	.012	.018	.026	.01/.005	.011/.006	.013/.007
4	.007	.007	.007	.009	.009	.010	.010	.011	.016	.023	.008/.004	.009/.005	.011/.006
5	.006	.006	.007	.007	.007	.009	.010	.011	.015	.022	.007/.004	.008/.004	.009/.005
6	.005	.005	.005	.006	.006	.008	.009	.010	.013	.019	.007/.003	.007/.004	.009/.004
7	.003	.004	.005	.005	.005	.007	.008	.010	.011	.017	.006/.003	.007/.004	.008/.004
8		.003	.004	.005	.005	.006	.007	.009	.011	.015	.006/.003	.006/.003	.007/.004
9			.004	.004	.005	.006	.007	.008	.009	.013	.005/.003	.006/.003	.007/.004
10				.004	.005	.006	.007	.008	.009	.013	.005/.003	.005/.003	.006/.003
11				.004	.004	.006	.006	.007	.009	.011	.005/.002	.005/.003	.006/.003
12					.004	.006	.006	.007	.008	.011	.004/.002	.005/.003	.006/.003
13					.004	.005	.006	.006	.007	.010	.004/.002	.005/.003	.006/.003
14						.004	.005	.006	.007	.009	.004/.002	.005/.002	.005/.003
15							.004	.006	.007	.009		.005/.002	.005/.003
16							.004	.006	.006	.008			.005/.003
17								.004	.005	.007	.004/.002	.005/.003	.006/.003
18								.004	.005	.007	.004/.002	.005/.002	.005/.003
19									.005	.006		.005/.002	.005/.003
20										.006			.005/.003

NOT: Daima 0,08 izin verilir–Tam profi lli kesici uçlar için 0,13mm ekstra talas miktarı.

ACME, İç çap

TPI	28	20	19	16	14	12	11	10	9	8	7	6	5
T Ap	.028	.032	.032	.034	.040	.053	.058	.064	.071	.080	.091	.107	0.128
N Ap	5	6	6	8	8	9	9	10	11	12	14	15	16
	Kesme sırtı yüzü kesme derinliği ilerlemesi için değerler (X/Z)												
Geçişli işleme sırası	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z	X/Z
1	.039	.041	.050	.063	.074	.095	.112	.138	.180	.256	.008/-	.008/-	.008/-
2	.009	.008	.009	.010	.010	.011	.012	.013	.019	.028	.013/.007	.014/.007	.017/.009
3	.009	.008	.009	.009	.010	.011	.011	.012	.018	.026	.01/.005	.011/.006	.013/.007
4	.007	.007	.007	.009	.009	.010	.010	.011	.016	.023	.008/.004	.009/.005	.011/.006
5	.006	.006	.007	.007	.007	.009	.010	.011	.015	.022	.007/.004	.008/.004	.009/.005
6	.005	.005	.005	.006	.006	.008	.009	.010	.013	.019	.007/.003	.007/.004	.009/.004
7	.003	.004	.005	.005	.005	.007	.008	.010	.011	.017	.006/.003	.007/.004	.008/.004
8		.003	.004	.005	.005	.006	.007	.009	.011	.015	.006/.003	.006/.003	.007/.004
9			.004	.004	.005	.006	.007	.008	.009	.013	.005/.003	.006/.003	.007/.004
10				.004	.005	.006	.007	.008	.009	.013	.005/.003	.005/.003	.006/.003
11				.004	.004	.006	.006	.007	.009	.011	.005/.002	.005/.003	.006/.003
12					.004	.006	.006	.007	.008	.011	.004/.002	.005/.003	.006/.003
13					.004	.005	.006	.006	.007	.010	.004/.002	.005/.003	.006/.003
14						.004	.005	.006	.007	.009	.004/.002	.005/.002	.005/.003
15							.004	.006	.007	.009		.005/.002	.005/.003
16							.004	.006	.006	.008			.005/.003
17								.004	.005	.007	.004/.002	.005/.003	.006/.003
18								.004	.005	.007	.004/.002	.005/.002	.005/.003
19									.005	.006		.005/.002	.005/.003
20										.006			.005/.003

Aşağıdaki tablolarda 60° V vida dişi tornalama ve Acme vida dişi tornalama işleminde Top Notch vida dişi tornalama uçları kullanılarak iç çap uygulamalarında kullanılabilecek en büyük vida dişi hatvesi listelenmiştir.



Metrik ölçekli 60° V vida dişi tornalama sınırları
İç çap vida dişi tornalama sınırlamaları NT-1, NT-2 60° V Vida dişi tornalama uçları

TPI	Vida dişi anma ölçüsü		Minimum vida dişi çapı (mm)	
	NT-1	NT-2	NT-1	NT-2
4,00	M48 x 4.00	–	43,67	–
3,00	M42 x 3.00	–	38,75	–
2,50	M39 x 2.50	M24 x 2,50	36,29	21,29
2,00	M33 x 2.00	M15 x 2,00	30,84	12,84
1,75	M32 x 1.75	M15 x 1,75	30,11	13,11
1,50	M32 x 1.50	M15 x 1,50	30,38	13,38
1,25	M29 x 1.29	M14 x 1,25	27,65	12,65
1,00*	M27 x 1.00	M14 x 1,00	25,92	12,92
0,75	M22 x 0.75	M12 x 0,75	21,19	11,19

* Öz çapın 25mm veya daha büyük (11mm ya da NT-1 ile daha büyük) olması koşuluyla, NT-2 kesici uç ile 1mm ve daha küçük vida dişi hatvesi kesilebilir.

İç çap vida dişi tornalama sınırlamaları NT-3 ve NT-4 60° V vida dişi tornalama uçları

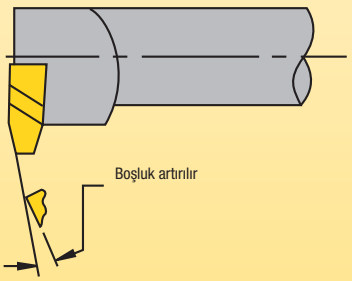
TPI	Vida dişi anma ölçüsü	Minimum vida dişi çapı (mm)
6,00**	M76 x 6.00	69,50
5,50**	M73 x 5.50	67,05
5,00	M70 x 5.00	64,59
4,00	M64 x 4.00	59,67
3,00	M52 x 3.00	48,75
2,50	M48 x 2.50	45,29
2,00	M42 x 2.00	39,84
1,75	M40 x 1.75	38,11
1,50*	M38 x 1.50	36,38

* Öz vida dişi çapının 35mm veya daha büyük olması şartıyla, 1,5mm ve daha küçük vida dişi hatvesi kesilebilir.
** Sadece NT-4 kesici uçu.

Acme vida dişi tornalama sınırları
İç çap vida dişi tornalama sınırlamaları NA ve NAS-2, -3, -4 ile -6 vida dişi tornalama uçları

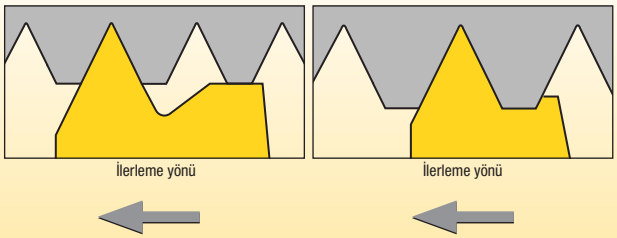
TPI	Vida dişi anma ölçüsü	Minimum vida dişi çapı (mm)	
	NT-1	NT-1	NT-2
2**	5	4,500	114,3
2-1/2**	4-1/2	4,100	104,1
3**	4	3,665	93,1
4	3-1/2	3,250	82,6
5	3	2,800	71,1
6	2-1/2	2,333	59,3
8	2-1/4	2,125	54,0
10	2	1,900	48,3
12	1-3/4	1,667	42,4
14	1-5/8	1,554	39,5
16*	1-1/2	1,438	36,5

* Diş dibi çapının 36,5mm (1.438") veya daha büyük olması şartıyla, her inç ve daha ince değer başına on altı vida dişi kesilebilir.
** Sadece NA-6 kesici uç.



Ek ikincil boşluk, daha kaba vida dişleri ve çoklu başlangıçlı vida dişlerinin işlenmesi için yeterli helisel boşluğu sağlayacak şekilde kesici ucun kesme sırtı kenarına dayandırılabilir. Biçimi değiştirilmiş standart kesici uçlar, gösterilen sınırlar dışında kalan vida dişlerinin işlenmesi için donatılmış olabilir.

60° V vida dişi konik tepe çapı tornalama uygulama bilgisi



(P ≤ 2mm) ve daha ince ölçü için NTC konik tepe çapı tornalama ucu.

(P ≥ 3mm) ve daha kaba olanlar için NTC konik tepe çapı tornalama ucu.

NOT: NTC Kesici uçlar, diş tabanı ile konik tepe çapı ölçülerini kendiliğinden kontrol altına alır. Bu nedenle, NTC kesici uçlarla vida dişi tornalama işlemlerini ayarlarken doğru ölçüler için vida dişi konik tepesinde dış çap veya iç çap kontrol edilir.

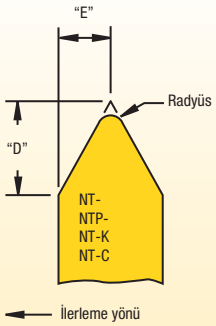
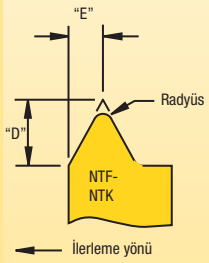
60° V vida dişi konik tepe çapı tornalama uygulama bilgisi

Kesici uç katalog numarası	Kesici uç köşe radyüsü (mm)	MIL-S-8879A başına vida dişi radyüsü (mm)
NJ-3014R/L12	0.317/0.342	0.317/0.381
NJK-3008R/L20	0.190/0.215	0.190/0,0228

Katalog için "J" vida dişi notu

Kontrollü taban dairesi radyüsü vida dişi şekli (SAE8879C) sadece dış çap vida dişi için tanımlanmıştır. Karşılık gelen dış çap vida dişini işlemek için tekdüze (unified) sınıf 2B bir vida dişi kesecek herhangi bir kesici uç seçilir, ardından diş dibi çap ölçüsüne göre delinir. Doğru "J" vida dişi, diş dibi çap değerleri için SAE8879C ve MIL-S-8879C ve SAEAS8879D' e bakınız.

60° V vida dişi uygulama bilgisi

Kesici uç tanımı	Kesici uç	D (mm)	E (mm)	Önerilen TPI*		Önerilen TP*	
				Dış çap	İç çap	Dış çap	İç çap
	NT-1	1,90	1,11	–	24–12	–	1,00–2,00
	NT-2	28,70	1,90	36–8	20–7	0,70–3,00	1,25–3,50
	NT-2-K	28,70	1,90	36–8	20–7	0,70–3,00	1,25–3,50
	NTF-2	15,75	1,01	44–14	24–12	0,60–1,75	1,00–2,00
	NTK-2	15,75	1,01	44–14	24–12	0,60–1,75	1,00–2,00
	NTP-2	28,70	1,90	36–8	20–7	0,70–3,0	1,25–3,50
	NT-3	37,59	2,46	20–6	12–5	1,25–4,00	2,00–5,00
	NT-3-K	37,59	2,46	20–6	12–5	1,25–4,00	2,00–5,00
	NT-3-C	37,59	2,46	11–6	6 (sadece)	2,50–4,00	4,00 (sadece)
	NT-3-CK	37,59	2,46	11–6	6 (sadece)	2,50–4,00	4,00 (sadece)
	NTF-3	21,08	1,37	44–10	24–9	0,60–2,50	1,00–2,50
	NTK-3	21,08	1,37	44–10	24–9	0,60–2,50	1,00–2,50
	NTP-3	37,59	2,46	20–6	12–5	1,25–4,00	2,00–5,00
	NT-4	49,78	3,22	20–4	12–4	1,25–6,25	2,00–6,25
	NT-4-K	49,78	3,22	20–4	12–4	1,25–6,25	2,00–6,25
	NT-4-C	49,78	3,22	11–4 1/2	6–4 1/2	2,50–5,50	4,00–5,50
	NT-4-CK	49,78	3,22	11–4 1/2	6–4 1/2	2,50–5,50	4,00–5,50
	NTF-4	21,08	1,37	44–10	24–9	0,60–2,50	1,00–2,50
	NTK-4	21,08	1,37	44–10	24–9	0,60–2,50	1,00–2,50
	NTP-4	49,78	3,22	20–4	12–4	1,25–6,25	2,00–6,25

* Maksimum kesici uç radyüs ölçüsü ve sınıf 2A ve 2B vida dişi özellikleri esas alınmıştır.
** Metrik D ve E ölçüleri için, 25,4 ile çarpılır.

API Vida dişi ölçüleri • API Döner dik kenarlı bağlantılar için kesici uç uygulamaları tablosu

Vida dişi şekli	Kennametal™ Kesici uç		Takım ortak uygulaması	Minimum kutu ölçüsü*
	Konik tepe çapı (tam profil) oluşturma	Konik tepe çapı oluşmamış (kısmi profil)		
V-.038R 2" TPF 4 TPI	NDC-4038R/L2 4-E/IR4API382	ND-3038R/L	2-3/8 API İç çap flanşı 2-7/8 API İç çap flanşı 3-1/2 API İç çap flanşı 4 API İç çap flanşı 4-1/2 API İç çap flanşı 5-1/2 API İç çap flanşı 6-5/8 API İç çap flanşı 4 API dolu delik API #23, API #26, API #31, API #35, API #38, API #40, API #44, API #46, API #50	API #31 2-7/8 IF
V-.038R 3" TPF 4 TPI	NDC-4038R/L3 4-E/IR4API383	ND-3038R/L	API #56 API #61 API #70 API #77	API #56
V-.050 2" TPF 4 TPI	NDC-4050R/L2 4-E/IRAPI502	ND-4050R/L	5-1/2 API dolu delik 6-5/8 API normal 6-5/8 API dolu delik	5-1/2 API dolu delik
V-.050 3" TPF 4 TPI	NDC-4050R/L3 4-E/IR4API503	ND-4050R/L	5-1/2 API normal 7-5/8 API normal 8-5/8 API normal	5-1/2 API normal
V-.040 3" TPF 5 TPI	NDC-3040R/L3 NDC-4040R/L3 4-E/IR5API403	ND-3040R/L ND-4040R/L	2-3/8 API normal 2-7/8 API normal 3-1/2 API normal 4-1/2 API normal	3-1/2 API normal

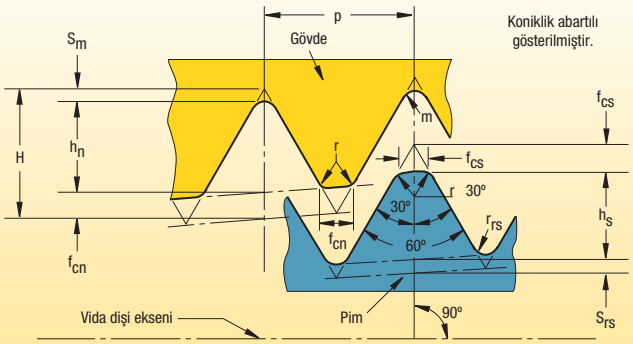
* Standart Top Notch Kesici uç ile vida dişi açılabilecek minimum delik donanımını kapsayan minimum kutu ölçüsü

API Vida dişi şekilleri
Ürün vida dişi ölçüleri • Döner dik kenarlı bağlantılar (İnç)

Vida dişi şekli	Yarda ölçüsü başına konik inç	Vida dişi yüksekliği, kesilmemiş vida dişi H	Vida dişi yüksekliği, kesilmiş vida dişi $H_n=h_s$	Taban tepesi kesme $S_m=S_{rs}$ $f_m=f_{rs}$	Konik tepe çapı kesmesi $f_{cn}=f_{cs}$	Düz yüzey genişliği		Diş tabanı radyüsü $r_m=r_{rs}$	Vida dişi köşe radyüsü r	Hatve p
						Konik tepe çapı $f_{cn}=f_{cs}$	Konik tepe çapı $f_m=f_{rs}$			
V-.038R	2	.216005	.121844	.038000	.056161	.065	—	.038	.015	.250
V-.038R	3	.215379	.121381	.038000	.055998	.065	—	.038	.015	
V-.040	3	.172303	.117842	.020000	.034461	.040	—	.020	.015	.250
V-.050	3	.215379	.147303	.025000	.043076	.050	—	.025	.015	
V-.050	2	.216005	.147804	.025000	.043201	.050	—	.025	.015	.250

NOT: Tüm ölçüler inç olarak.

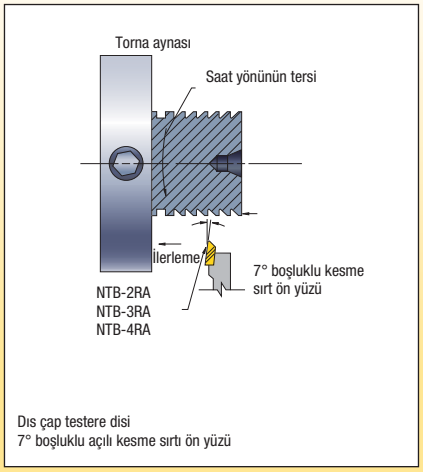
V-.040 ve V-.050 Ürün vida dişi şekli



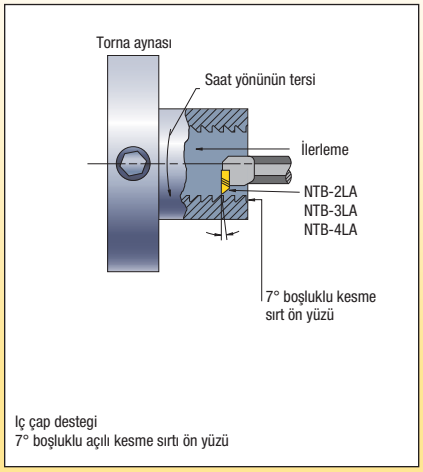
Gövde ve boru yuvarlak vida disi (Yükseklik ölçüleri)

Vida dişi elemanı		10 TPI p = .1000	8 TPI p = .1250
H	= .866p	.08660	.10825
$H_s = h_n$	= .626p - .007	.05560	.07125
$S_{rs} = S_m$	= .120p + .002	.01400	.01700
$S_{cs} = S_{cn}$	= .120p + .005	.01700	.02000

Amerikan testere dişi (7° boşluklu kesme sırtı ön yüzü) NTB-A Kesici uçlar • Sürmeli tip

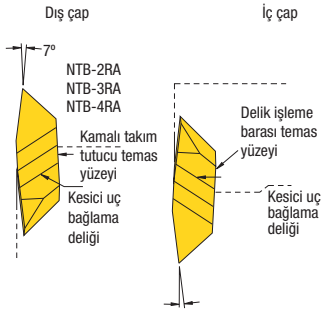


Dış çap testere disi
7° boşluklu açılı kesme sırtı ön yüzü

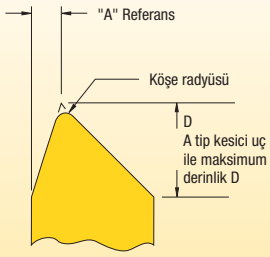


İç çap destegi
7° boşluklu açılı kesme sırtı ön yüzü

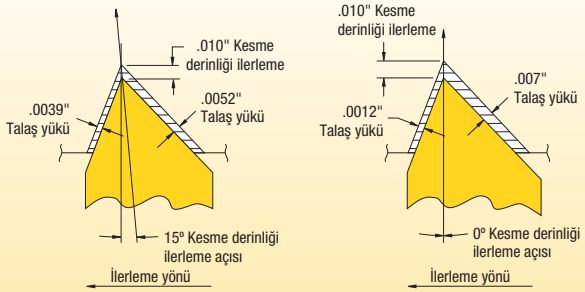
Kesici ucun takım tutucuya göre konumlandırılması



Referans ölçüleri



Kesme derinliği ilerleme açısı ile talaş yükü karşılaştırması: 7° boşluklu kesme sırtı ön yüzü



NTB-A Kesici uç

Kesici uç	D (inç)	"A" ref. (inç)	Köşe radyüsü (inç)	Maksimum radyüse göre hatve
NTB-2A	.133	.024	.002–.004	16–20 TPI
NTB-3A	.171	.031	.005–.008	8–16 TPI
NTB-4A	.218	.049	.008–.012	4–6 TPI

NOT: Dengeli talaş yükü için 15° kesme derinliği ilerleme açısı önerilir.

İç çap vida dişi tornalama sınırlamaları

İç çap vida dişi tornalama sınırlamaları NTB-2A Testere vida dişi tornalama uçları

TPI	Vida dişi anma ölçüsü	Minimum diş dibi çapı (inç)
8	1-3/4	1,600
10	1-5/8	1,505
12	1-1/2	1,400
16	1-1/4	1,175
20	1-1/16	1,002

İç çap vida dişi tornalama sınırlamaları NTB-3 ve NTB-4A Testere vida dişi tornalama uçları

TPI	Vida dişi anma ölçüsü	Minimum diş dibi çapı (inç)
4*	2-1/2	2,200
5	2-1/4	2,010
6	2	1,800
8	1-3/4	1,600
10	1-5/8	1,505
12**	1-1/2	1,400

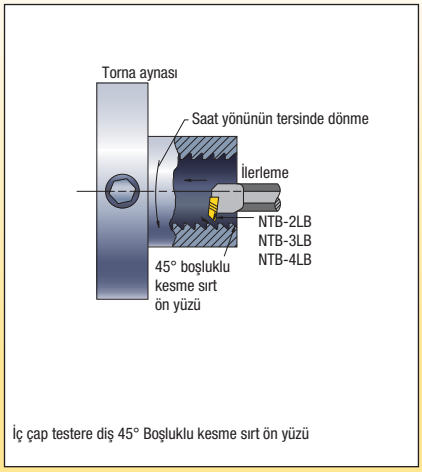
** Sadece NTB-4A kesici uç.*
*** Diş dibi çapının 1.375" veya daha büyük olması koşuluyla, inç başına 16 veya 20 vida dişi kesebilir.*

İnç başına vida dişleri ile maksimum diş tabanı radyüsü karşılaştırma tablosu (İnç)

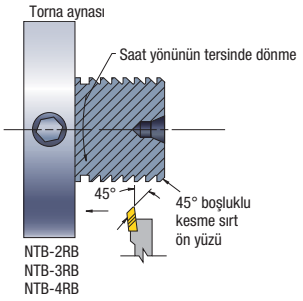
TPI	20	16	12	10	8	6	5	4	3	2-1/2	2	1-1/2	1-1/4	1
Maksimum diş tabanı radyüsü	.0036	.0045	.0059	.0071	.0089	.0119	.0143	.0179	.0238	.0268	.0375	.0476	.0572	.0714

NOT: Özel testere dişi şekilleri isteğe bağlı sevk edilir.

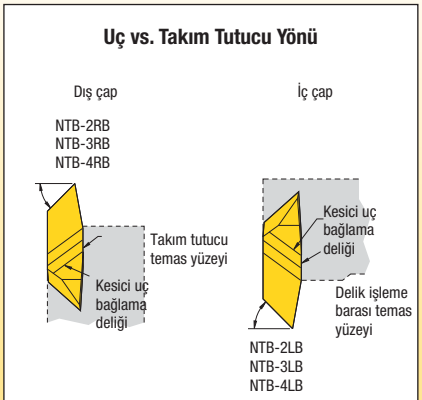
Amerikan testere dişi (45° Boşluklu kesme sırtı ön yüzü): NTB-B Kesici uçlar • ÇEKMELİ tip



İç çap testere diş 45° Boşluklu kesme sırt ön yüzü

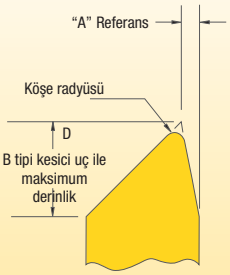


Dış çap testere diş 45° Boşluklu kesme sırt ön yüzü

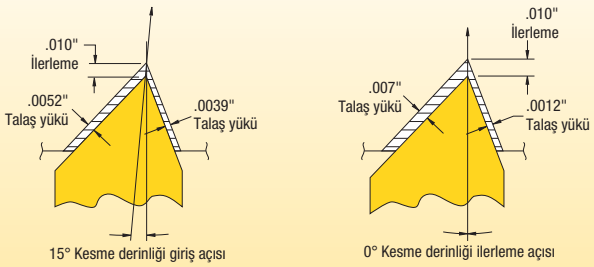


45° Boşluklu kesme sırtı ön yüzü

Referans ölçüleri



45° boşluklu kesme sırt ön yüzü



NTB-B Kesici uç

Kesici uç	D (inç)	"A" referans (inç)	Köşe radyüsü (inç)	Maksimum radyüse göre hatve
NTB-3B	.171	.031	.005–.004	8–16 TPI

NOT: Dengeli talaş yükü için ters 15° kesme derinliği ilerleme açısı önerilir.

Iç çap vida disi tornalama sınırlamaları

İç çap vida dişi tornalama sınırlamaları
NTB-2B Testere vida dişi tornalama uçları

TPI	Vida dişi anma ölçüsü	Minimum diş dibi çapı (inç)
8	1-3/4	1,600
10	1-5/8	1,505
12	1-1/2	1,400
16	1-1/4	1,175
20	1-1/16	1,002

İç çap vida dişi tornalama sınırlamaları
NTB-3 ve NTB-4B Testere vida dişi tornalama uçları

TPI	Vida dişi anma ölçüsü	Minimum diş dibi çapı (inç)
4*	2-7/8	2,575
5	2-3/4	2,510
6	2-3/8	2,175
8	2-1/8	1,975
10	1-7/8	1,755
12	1-5/8	1,525
16	1-1/2	1,407
20	1-7/16	1,378

* Sadece NTB-4B Kesici uç.

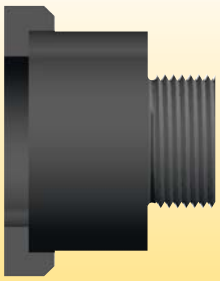
Gerekli bilgi

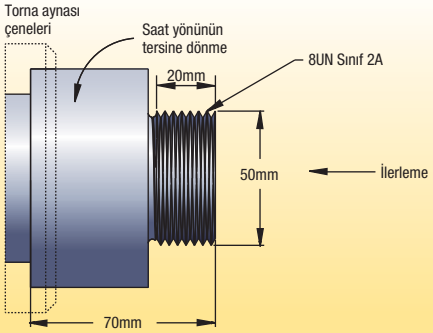
Parça resminden:

Malzeme:	316SS, 200 HB
Vida dişi şekli:	8UN
Tolerans:	Sınıf 2A
İşlem:	Dış çap vida dişi tornalama
Bölüm dairesi çapı (Hatve çapı):	50mm x 25mm derinlik

Tezgah tarafı kurulum bilgisi:

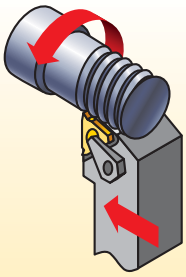
Takımlama:	20mm x 20mm
İşmili dönüşü:	Saat yönü tersine
İlerleme:	Torna aynasına doğru





Başarılı vida dişi tornalama işlemi

1. Adım • Vida dişi tornalama yöntemini belirleme



Bilinmesi gerekenler:

- İşlem (dış çap).
- İşmili dönüşü (CCW).
  Saat yönü tersi dönme.
- İlerleme yönü (torna aynasına doğru).
- Sağ yönlü takım tutucu.
- Sağ yönlü kesici uç (ER).
- Standart helis yöntemi.

2. Adım • Kesici uç seçme



Bilinmesi gerekenler:

- Vida dişi şekli (ISO R262 1mm hatveli).
- Vida dişi yönü (sağ yönlü; ER).

Yüksek performanslı çözüm seçme

Katalog numarası	Kesici uç ölçüsü	KCU25/ KC5025
3ER10ISO	3	•

Yüksek performans seçimi

NOT: Mevcut en büyük kesici uç ölçüsüne sahip kesici uç kullanılır.
Kesici uç: 3ER10ISO
Kalite: KCU25/KC5025
Hız: 150 m/dk.

3. Adım • Kalite ve hız seçme

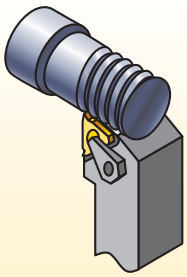
Bilinmesi gerekenler:

- İş parçası malzemesi (316SS-200HB).
- İşlem (dış çap).

Seçenekler: Kalite ve hız seçme rehberi

Vida dişi tornalama işlemi	Paslanmaz Çelik
Dış çap	Genel amaçlı ve yüksek performanslı
	KC5025
	150–450 TPI

4. Adım • Takım tutucu seçme



Bilinmesi gerekenler:

- Dış çap veya iç çap işlemi (dış çap).
- Minimum delik çapını belirlemek için bölüm dairesi çapı (N/A).
- Takımlama tipi; Takım tutucu, delik işleme barası (takım tutucu).
- Takım yönü (sağ yönlü).
- Kesici uç ölçüsü (16).

Seçenekler:

Katalog numarası	Kesici uç ölçüsü	Altlık
AL203R	3	SM-YE3

İlk tercih: LSASR-123 tutucu

5. Adım • Altlık seçme

Bilinmesi gerekenler:

- Vida dişi şekli; TPI veya hatveli (8 TPI).
- Bölüm dairesi çapı (Hatve çapı) 50mm
- Helis yöntemi (standart). Yatık konumda vida dişi tornalama (LT) için altlık seçme tablosuna bakınız.

SM-YE3 Altlığını seçme

NOT: SM-YE3 şim, seçili takım tutucu ile tedarik edilir.

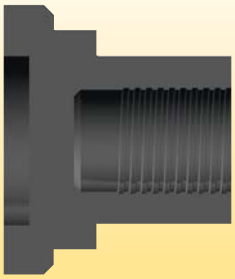
Gerekli bilgi

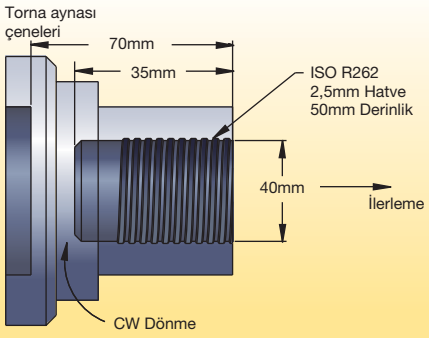
Parça resminden:

Malzeme:	4140 Çelik
Vida dişi şekli:	ISO R262 2,5mm hatve
Tolerans:	ISO Metrik sınıf 6G/6H
İşlem:	İç çap vida dişi tornalama
Bölüm dairesi çapı (Hatve çapı):	40mm x 35mm derinlik

Tezgah tarafı kurulum bilgisi:

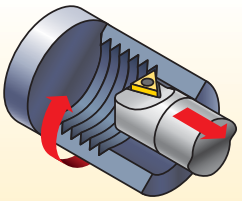
Takımlama:	20mm delik işleme barası
İşmili dönüşü:	Saat yönünde
İlerleme:	Torna aynasından uzak yöne doğru





Başarılı vida dişi tornalama işlemi

1. Adım • Vida dişi tornalama yöntemini belirleme



Bilinmesi gerekenler:

- İşlem (iç çap).
- İşmili dönüşü (CW). Saat yönünde dönme.
- Ilerleme yönü (torna aynasından uzak).
- Sol yönlü takım tutucu.
- Sol yönlü kesici uç (NL).
- Ters helis yöntemi.

2. Adım • Kesici uç seçme



Bilinmesi gerekenler:

- Vida dişi şekli (ISO Metrik sınıf 6G/6H).
- Vida dişi yönü (sol yönlü; NL).

Yüksek performanslı çözüm seçme

Katalog numarası	Kesici uç ölçüsü	KCU25/ KC5025
3IL25ISO	3	•

Yüksek performans seçimi

NOT: Delik içine girmek için mümkün olan en büyük kesici uç ölçüsüne sahip kesici uç kullanılır.
Kesici uç: 3IL25ISO
Kalite: KCU25/KC5025
Hız: 130 m/dk.

3. Adım • Kalite ve hız seçme

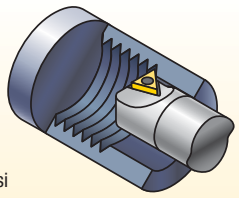
Bilinmesi gerekenler:

- İş parçası malzemesi (4010 Çelik).
- İşlem (iç çap).

Seçenekler: Kalite ve hız seçme rehberi

Vida dişi tornalama işlemi	Çelik
İç çap	Genel amaçlı ve yüksek performanslı
	KC5025
	40–200 m/dk.

4. Adım • Takım tutucu seçme



Bilinmesi gerekenler:

- Dış çap veya iç çap işlemi (iç çap).
- İç çap işlemlerde minimum delik çapını belirlemek için bölüm dairesi çapı (40mm).
- Takımlama tipi; Takım tutucu, delik işleme barası (delik işleme barası).
- Takım yönü (sol yönlü).
- Kesici uç ölçüsü (16).

Seçenekler:

Katalog numarası	Kesici uç ölçüsü	Altlık
AVR32D3R	3	SM-YE3

İlk tercih: LSASR-123 tutucu

5. Adım • Altlık seçme

Bilinmesi gerekenler:

- Vida dişi şekli; TPI veya hatveli (8 TPI).
- Bölüm dairesi çapı (Hatve çapı) 50mm
- Helis yöntemi (standart). Yatık konumda vida dişi tornalama (LT) için altlık seçme tablosuna bakınız.

SM-YE3 Altlığını seçme

NOT: Bu uygulamada, sevk edilen standart altlık önerilen SM-YE3 altlığı ile değiştirilmelidir.

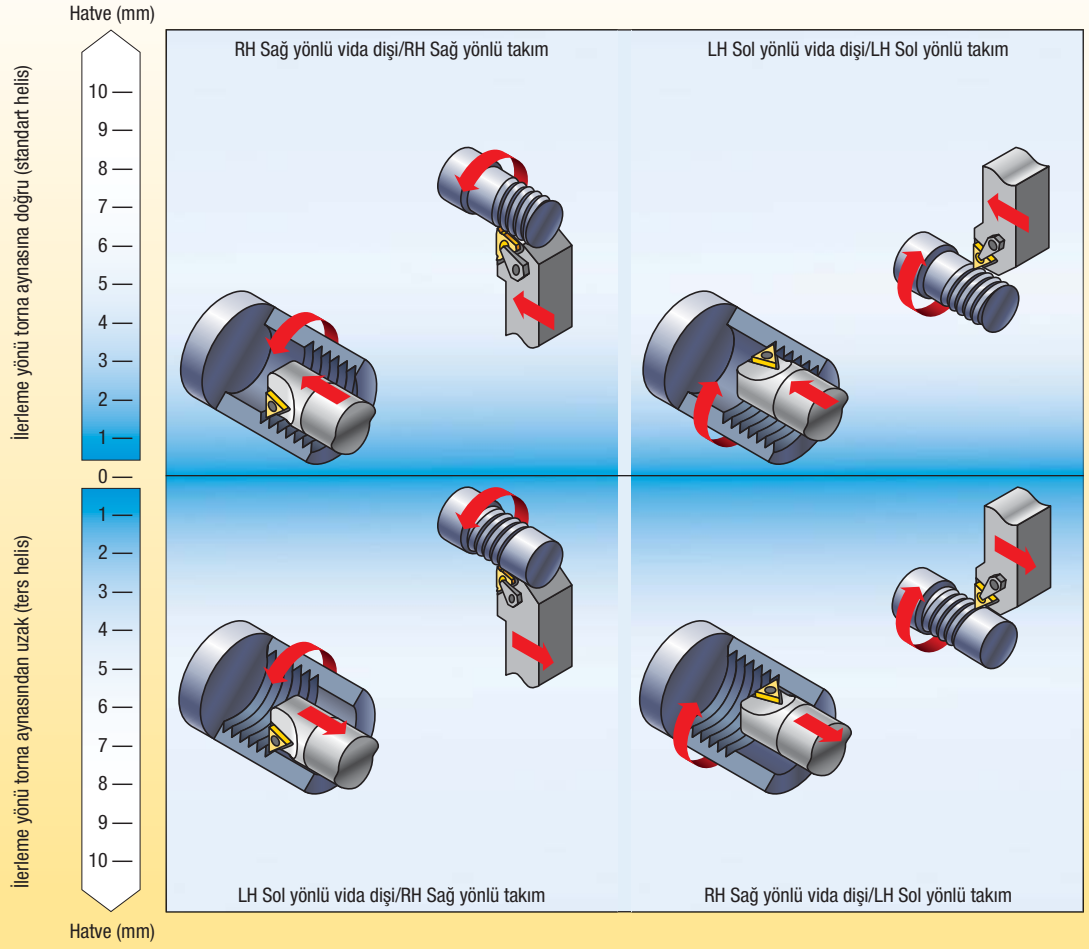
Yatık konumda vida dişi tornalama için altlık seçme kuralları

Vida dişi kalitesi ve maksimum takım ömrü sağlamak için doğru altlığın seçilmesi önemlidir. Bu parametreler gereklidir:

- Hatve
- Bölüm dairesi çapı (Hatve çapı)
- Başlangıç sayısı
- İlerleme yönü

NOT: Vida dişi kesme yöntemi göz önüne alındığında, parçanın şekli ve sağlamlığı ve talaş akışı alınacak kararda belirleyici unsurlardır.

Yatık konumda vida dişi tornalama için seçme tablosu



NOT: Çoklu başlangıçlı vida dişlerinde hatve yerine ayar değeri kullanılır.

Vida dişi hatve açıları tablosu

Belirli bir vida dişinin hatve açısını hesaplamak için kullanılan formül:

$$ß = \text{Arctan} \frac{P \bullet S}{\pi D_e}$$

ß = Vida dişi hatve açısı

D_e = Vida dişi aşınmasında etkin bölüm dairesi çapı (Hatve çapı)

P = 1/TPI

TPI = İnç başına vida dişi

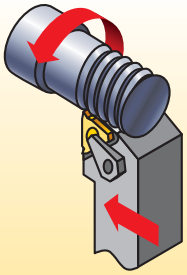
S = Başlangıç sayısı

Tek başlangıçlı, hatve = hatve

Çok başlangıçlı, hatve = hatve (x) başlangıç sayısı

Tüm takım tutucular, 1.5 derecelik eğim açısı ile tasarlanmıştır. Standart vida dişleri 1–2° hatve açısı ile tornalandığında, bu açı kesici uç vida dişi kesme sırtı yüzlerinde yeterli bir boşluğun oluşmasını sağlar. Vida dişi hatve açısı ve kesici ucun gerekli eğim (kademe) açısı, ß ile verilmektedir.

Kesme kenarı yüksekliği, her altlık ve kesici uç birleşimlerinde sabittir. Tüm takım tutucular, 1-1/2° ayar açılı olarak sevk edilir.

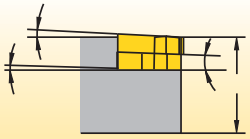


Yatık konumda vida dişi tornalama için altlık seçme tablosu • Metrik

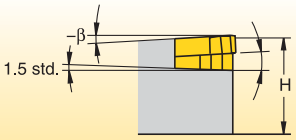
Kesici uç ölçüsü	Takım tutucu		Altlık sipariş kodu (mm)							
	Dış çap	İç çap				Standart				
3 (9,52)	RH Sağ yönlü	LH Sol yönlü	SM–YE3–3P	SM–YE3–2P	SM–YE3–1P	SM–YE3	SM–YE3–1N	SM–YE3–1,5N	SM–YE3–2N	SM–YE3–3N
3 (9,52)	LH Sol yönlü	RH Sağ yönlü	SM–YI3–3P	SM–YI3–2P	SM–YI3–1P	SM–YI3	SM–YI3–1N	SM–YI3–1,5N	SM–YI3–2N	SM–YI3–3N
4 (12,7)	RH Sağ yönlü	LH Sol yönlü	SM–YE4–3P	SM–YE4–2P	SM–YE4–1P	SM–YE4	SM–YE4–1N	SM–YE4–1,5N	SM–YE4–2N	SM–YE4–3N
4 (12,7)	LH Sol yönlü	RH Sağ yönlü	SM–YI4–3P	SM–YI4–2P	SM–YI4–1P	SM–YI4	SM–YI4–1N	SM–YI4–1,5N	SM–YI4–2N	SM–YI4–3N
TPI		Hatve (mm)	Hatve çapı (mm)							
72		—	—	—	—	3,1-8	8-21,4	>21,4	21,4-8	8-3,1
—		0,35	—	—	—	3,0-8	8-21,3	>21,3	21,3-8	3-8
64		—	—	—	—	3,4-9	9-24,1	>24,1	24,1-9	9-3,4
—		0,40	—	—	—	3,5-9,1	9,1-24,3	>24,3	24,3-9,1	9,1-3,5
56		0,45	—	—	—	3,9-10,3	10,3-27,6	>27,6	27,6-10,3	10,3-3,9
—		0,50	—	—	2,8-4,3	4,3-11,4	11,4-30,4	>30,4	30,4-11,4	11,4-4,3
48		—	—	—	3-4,6	4,6-12,1	12,1-32,2	>32,2	32,2-12,1	12,1-4,6
44		—	—	—	3,3-5	5-13,2	13,2-35,1	>35,1	35,1-13,2	13,2-5
—		0,60	—	2,6-3,4	3,4-5,2	5,2-13,7	13,7-36,5	>36,5	36,5-13,7	13,7-5,2
40		—	—	2,8-3,6	3,6-5,5	5,5-14,5	14,5-38,6	>38,6	38,6-14,5	14,5-5,5
—		0,70	—	3,0-4	4-6,1	6,1-16	16-42,6	>42,6	42,6-16	16-6,1
36		—	—	3,1-4	4-6,1	6,1-16,1	16,1-42,9	>42,9	42,9-16,1	16,1-6,1
—		0,75	2,8-3,2	3,3-4,3	4,3-6,5	6,5-17,1	17,1-45,6	>45,6	45,6-17,1	17,1-6,5
32		—	3-3,4	3,4-4,5	4,5-6,9	6,9-18,1	18,1-48,3	>48,3	48,3-18,1	18,1-6,9
—		0,80	3-3,5	3,5-4,6	4,6-6,9	6,9-18,2	18,2-48,6	>48,6	48,6-18,2	18,2-6,9
28		—	3,4-3,9	3,9-5,2	5,2-7,9	7,9-20,7	20,7-55,1	>55,1	55,1-20,7	20,7-7,9
27		—	3,6-4,1	4,1-5,4	5,4-8,2	8,2-21,4	21,4-57,2	>57,2	57,2-21,4	21,4-8,2
—		1,00	3,8-4,3	4,3-5,7	5,7-8,7	8,7-22,8	22,8-60,8	>60,8	60,8-22,8	22,8-8,7
24		—	4-4,6	4,6-6	6-9,2	9,2-24,1	24,1-64,3	>64,3	64,3-24,1	24,1-9,2
—		1,25	4,7-5,4	5,4-7,1	7,1-10,8	10,9-28,5	28,5-76	>76,0	76-28,5	28,5-10,8
20		—	4,8-5,5	5,5-7,2	7,2-11	11-28,9	29-77,2	>77,2	77,2-28,9	29-11
18		—	5,3-6,1	6,1-8	8-12,2	12,2-32,2	32,2-85,8	>85,8	85,8-32,2	32,2-12,2
—		1,50	5,7-6,5	6,5-8,5	8,5-13	13-34,2	34,2-91,2	>91,2	91,2-34,2	34,2-13
16		—	6-6,9	6,9-9	9-13,8	13,8-36,2	36,2-96,5	>96,5	96,5-36,2	36,2-13,8
—		1,75	6,6-7,96	7,6-10	10-15,2	15,2-39,9	39,9-106,4	>106,4	106,4-39,9	39,9-15,2
14		—	6,9-7,9	7,9-10,3	10,3-15,7	15,7-41,4	41,4-110,3	>110,3	110,3-41,4	41,4-15,7
13		—	7,4-8,5	8,5-11,1	11,1-17	17-44,5	44,5-118,8	>118,8	118,8-44,5	44,5-17
—		2,00	7,6-8,7	8,7-11,4	11,4-17,4	17,4-45,6	45,6-121,6	>121,6	121,6-45,6	45,6-17,4
12		—	8-9,2	9,2-12	12,1-18,4	18,4-48,2	48,3-128,7	>128,7	128,7-48,2	48,2-18,4
11,5		—	8,4-9,6	9,6-12,6	12,6-19,2	19,2-50,3	50,3-134,3	>134,3	134,3-50,3	50,3-19,2
11		—	8,8-10	10-13,1	13,1-20	20-52,6	52,6-140,4	>140,4	140,4-52,6	52,6-20
—		2,50	9,5-10,8	10,8-14,2	14,2-21,7	21,7-57	57-152	>152,0	152-57	57-21,7
10		—	9,6-11	11-14,5	14,5-22	22-57,9	57,9-154,4	>154,4	154,4-57,9	57,9-22
9		—	10,7-12,2	12,2-16,1	16,1-24,5	24,5-64,3	64,3-171,6	>171,6	171,6-64,3	64,3-24,5
—		3,00	11,4-13	13-17,1	17,1-26	26-68,4	68,4-182,4	>182,4	182,4-68,4	68,4-26
8		—	12-13,8	13,8-18,1	18,1-27,6	27,6-72,4	72,4-193	>193,0	193-72,4	72,4-27,6
—		3,50	13,3-15,2	15,2-19,9	19,9-30,4	30,4-79,8	79,8-212,8	>212,8	212,8-79,8	79,8-30,4
7		—	13,8-15,7	15,7-20,7	20,7-31,5	31,5-82,7	82,7-220,6	>220,6	220,6-82,7	82,7-31,5
—		4,00	15,2-17,3	17,3-22,8	22,8-34,7	34,7-91,2	91,2-243,2	>243,2	243,2-91,2	91,2-34,7
6		—	16-18,3	18,3-24,1	24,1-36,7	36,7-96,5	96,5-257,4	>257,4	257,4-96,5	96,5-36,7
—		5,00	19-21,7	21,7-28,5	28,5-43,4	43,4-114	114-304	>304,0	304-114	114-43,4
5		—	19,3-22	22-28,9	28,9-44,1	44,1-115,8	115,8-308,8	>308,8	308,8-115,8	115,8-44,1
4,5		—	21,4-24,5	24,5-32,1	32,1-49	49-128,7	128,7-343,1	>343,1	343,1-128,7	128,7-49
—		6,00	22,7-26	26-34,2	34,2-52,1	52,1-136,8	136,8-364,8	>364,8	364,8-136,8	136,8-52,1
4		—	24,1-27,5	27,5-36,2	36,2-55,1	55,1-144,8	144,8-386	>386	386-144,8	144,8-55,1
Eğim açısı			4,5	3,5	2,5	1,5	0,5	0,0	-0,5	-1,5
			Standart helis (aynaya doğru ilerleme)						Ters helis (aynadan uzağadoğru ilerleme)	

1. Sol yönlü izlenen sütunlardan TPI (inç başına vida dişi) veya hatve seçilir.
2. Belirtilen bölüm dairesi çapı (Hatve çapı) ve doğru ilerleme yönüne giden satır izlenir.
3. Takım tutucu ve kesici uç ölçüsüne göre gerekli altlık için ilgili sütun izlenir.

Standart helis yöntemi:
RH Sağ yönlü vida dişi, RH sağ yönlü takımla ya da LH sol yönlü vida dişi, LH sol yönlü takımla kesildiğinde kullanılır.



Ters helis yöntemi:
RH Sağ yönlü vida dişi, LH sol yönlü takım ile kesildiğinde ya da LH sol yönlü vida dişi, RH sağ yönlü takım ile kesildiğinde kullanılır



NOVO NASIL ARAYACAĞINI BİLİR

NOVO™, nun sunduğu Öner ve Seç işlevleriyle geliştirilmiş bir takım aranıyor ve böylelikle zaman ve maliyet tasarrufu sağlanıyor.

ÖNER

Kesici takım önerileri sunmak için kural tabanlı bir yaklaşım kullanır:

- İşleme özellikli tanımlar (yüzey frezeleme, kanal frezeleme, kör delik, vb.)
- Gerekli sınırlamaları uygular (geometri, malzeme, tolerans, vb.)
- İşleme sıralamasını düzenler (tek veya çok adımlı işlemler, kaba işleme ardından hassas işleme, vb.)
- Üst düzey sonuç sağlar

SEÇ

Bir hiyerarşi veya parametrik arama yoluyla, bir ağaç yapısından kesici takımları seçme yöntemidir:

- Hangi ürünü aradığınızı biliyorsanız, yalnızca katalog numarası ya da ürün açıklamasıyla hızlı bir arama gerçekleştirilebilir.
- Akıllı filtreler potansiyel takımlama çözümlerinin sayısını önemli ölçüde azaltır.
- Takım seçildikten sonra, NOVO ayrıca kesme ve uyarlanabilir çözümünüz ile uyumlu öğe seçenekleri sunar.

NOVO tezgahlarınızda işinize uygun takımlara doğru sıralamayla sahip olabilmenizi sağlar. Her işi hızlandırır ve sorunsuz uygulama ile her vardiyadan en yüksek verimliliğin elde edilebilmesini sağlar.
kennametal.com/novo



Uygulama özellikli

Fix-Perfect Kesici uçlar E2–E18

Top Notch Profil işleme E20–E43

Demiryolu uygulamaları E44–E61

K-Lock Kesici uçlar E62–E65

Fix-Perfect™

Fix-Perfect™ Hassas taşlanmış kesici uç programı beklentileri ve Beyond kavramını aşan teknoloji !

Bu hassas taşlanmış kesici uçların devrim niteliğinde yaratıcı performans özellikleri, çelik, dökme demir ve paslanmaz çelikten iş parçası malzemelerini işlerken üstün konumlandırma hassasiyeti ve mükemmel talaş akışı sağlar.

Fix-Perfect Beyond kesici uçlar, akışkan teknolojisi, enerji, otomotiv, ağır donanım imalatı ve genel makina imalatı uygulamaları da dahil olmak üzere, çok sayıda endüstride işleme süreçleri için ideal bir çözümdür.

Özellikler, İşlevler ve Avantajlar

Özellikler

- Teğetsel tasarım.
- Rijit bağlama sistemi.
- Sekiz kesme kenarına kadar (uç yuvası korumalı).
- Pozitif geometri.
- Hassas taşlanmış kesici uçlar.

İşlevler

- Kararlı sistem.
- Çok kararlı bağlama sistemi ve hızlı ve kolay kesme kenarı değiştirme özelliği.
- Kesici uç başına sekiz kenara kadar kullanım.
- Çok düşük kesme kuvvetleri ve mükemmel talaş kontrolü.
- Daha iyi konumlandırma hassasiyeti.

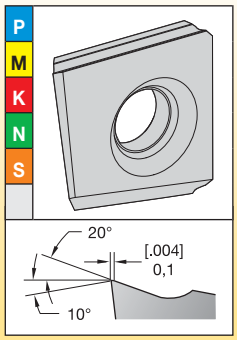


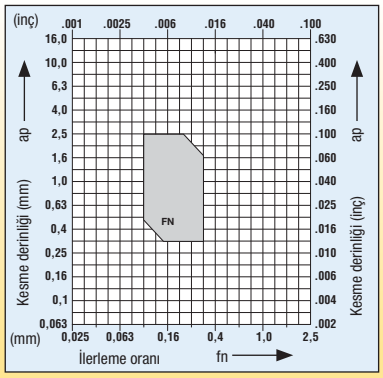
Avantajlar

- İşlem güvenilirliği ve yüksek verimlilik.
- Tezgah durma süresinde kısalma.
- Daha yüksek verimlilik.
- Düşük titreşim, düz hassas kesme, sessiz kesme, iş parçasında biçim değişimi görülmez ve yüksek yüzey kalitesi.
- İşlem güvenilirliği.

Hassas son işleme

D2FIX-FN

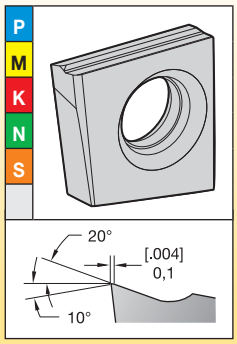


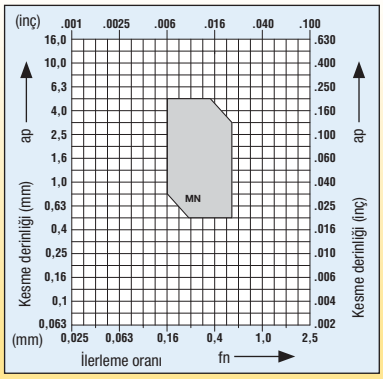


P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı malzemeler
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

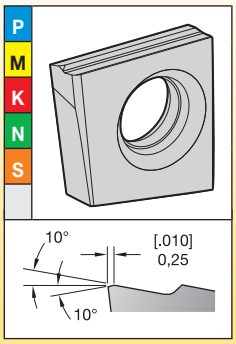
Orta işleme

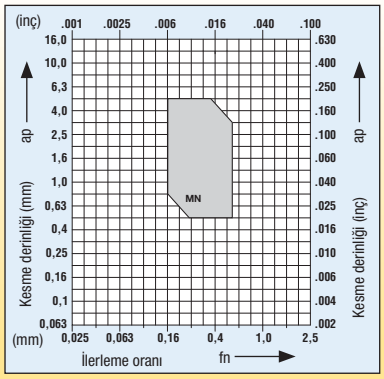
C2FIX-MN



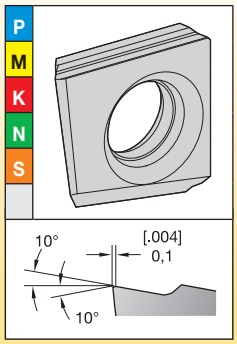


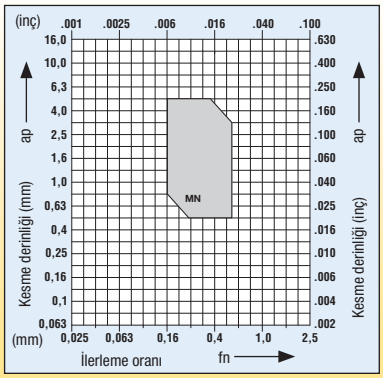
C2FIX18-MN



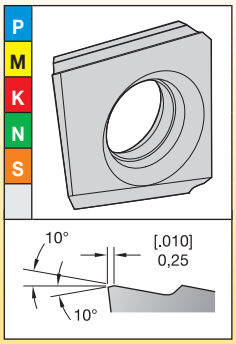


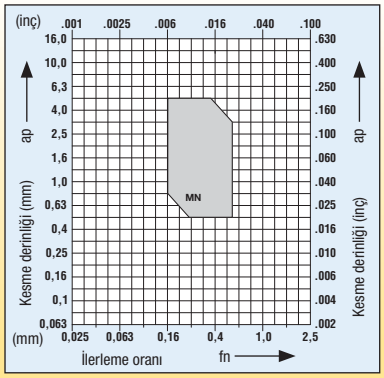
D2FIX15-MN



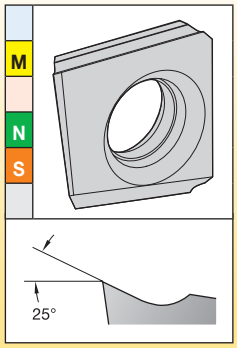


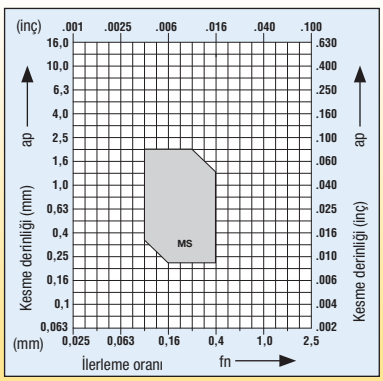
K2FIX-MN



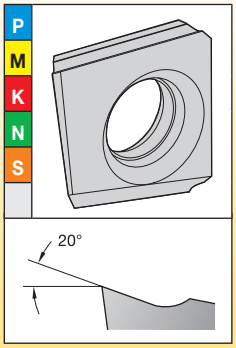


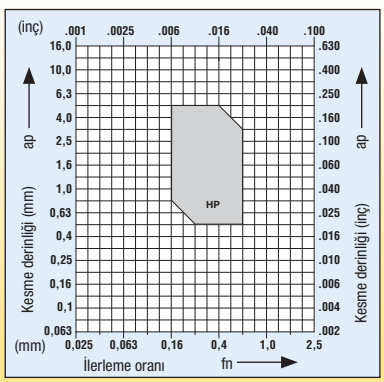
D2FIX-MS





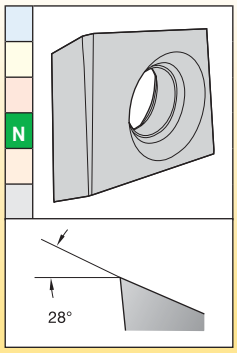
D2FIX-HP

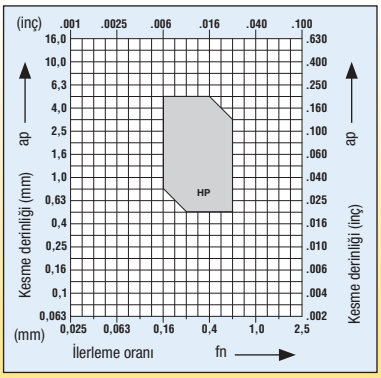




Orta işleme

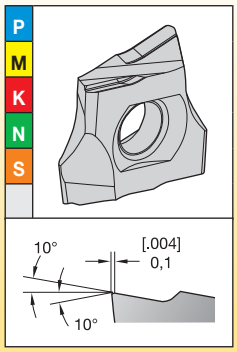
E2FIX-HP

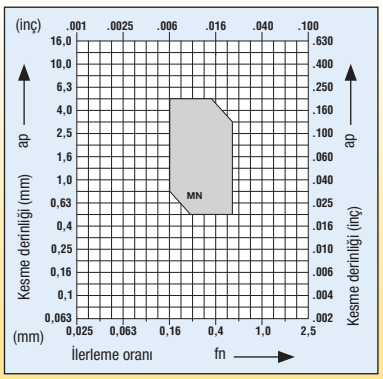




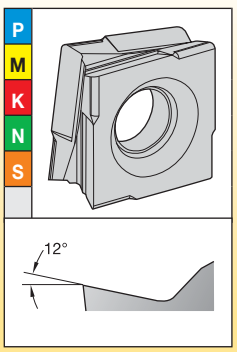
P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı malzemeler
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

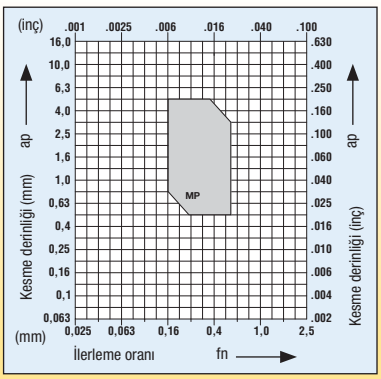
D4FIX-MN





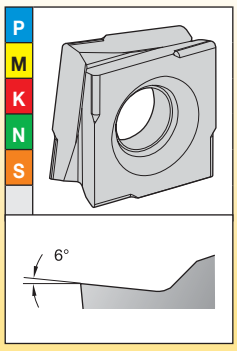
C8FIX-MP

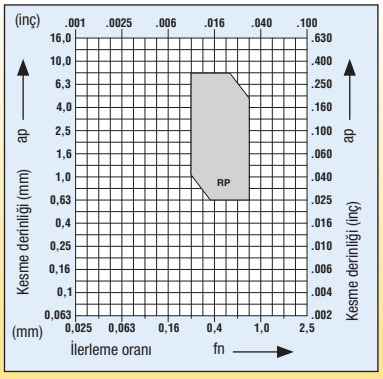




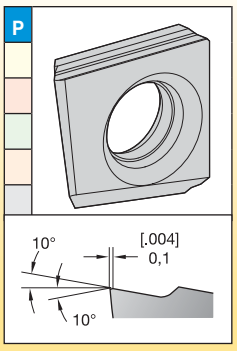
Kaba işleme

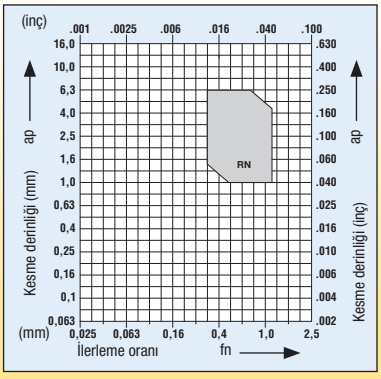
C8FIX-RP



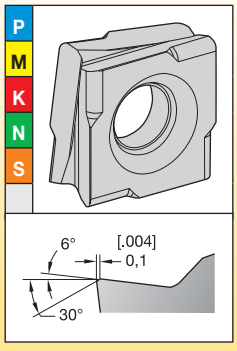


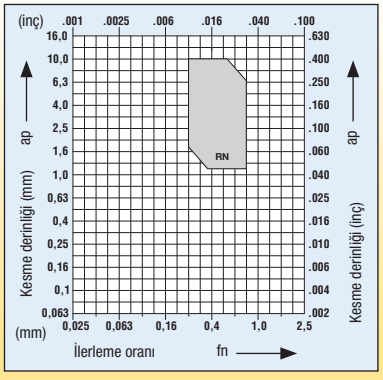
D2FIX-RN



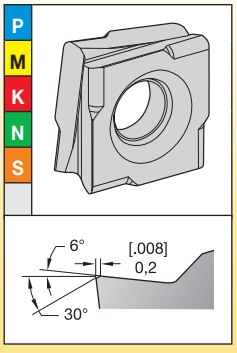


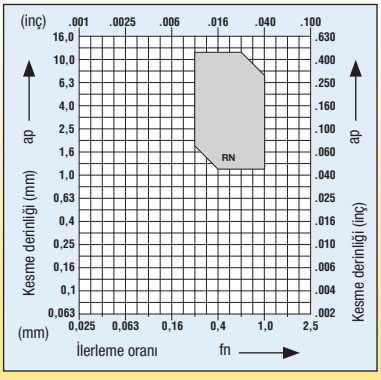
C8FIX15-RN





C8FIX18-RN





Kesici uç geometrisi seçimi

8 Kesme kenarlı kesici uçlar

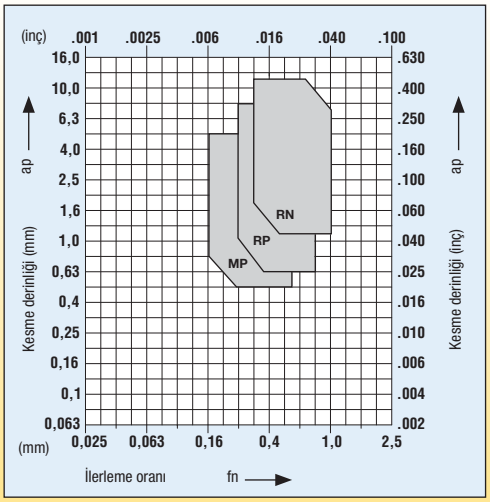
Kaba işleme
Darbeli kesme ve, veya kaba kabuk kesme
KULLANIM: -RP VEYA -RN


-RP


-RN

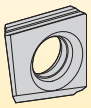
Orta tornalama
Hafif biçimde darbeli kesme ve, veya düşük düzeyde kabuk kesme
KULLANIM: -MP


-MP

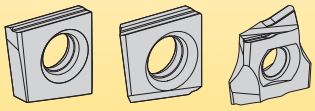


2 ve 4 Kesme kenarlı kesici uçlar

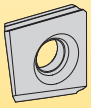
Kaba işleme
Darbeli kesme ve/veya ağır kabuk kesme
KULLANIM: -RN

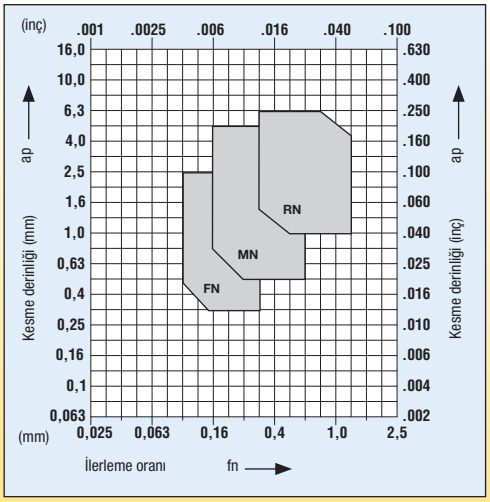

-RN

Orta tornalama
Hafif biçimde darbeli kesme ve, veya kaba kabuk kesme
KULLANIM: -MN


-MN

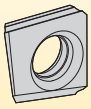
Hassas son işleme
Darbesiz kesme, kabuksuz
KULLANIM: FN

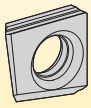

-FN



2 Kesme kenarlı kesici uçlar, yüksek pozitif

Orta tornalama
Hafif biçimde darbeli kesme ve, veya düşük düzeyde kabuk kesme
KULLANIM: -HP VEYA -MS


-HP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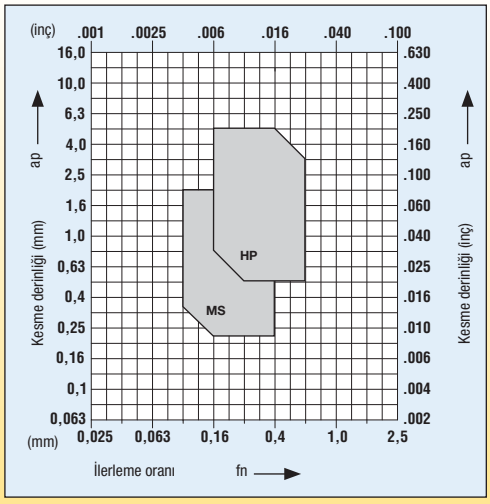


Kalite seçimi

	P	M	K	N	S	H
Aşırı derecede ağır darbeli	KCP40/KCU25	KCU25/KCP40	KCP25/KCU25	KCU25	KCU25	–
Hafif biçimde darbeli	KCP25/KCU25	KCU25/KCP40	KCP25/KCU25	KCU25	KCU25	–
Değişken kesme derinlikleri	KCP10/KCU10	KCU10/KCM15	KCP10/KCU10	KCU10	KCU10	KCU10
Düz hassas	KCP10/KCU10	KCU10/KCM15	KCP10/KCU10	KCU10	KCU10	KCU10

Kesme hızı seçimi

Çelik — Hız — m/dk.Yüzey ilerleme/dk. — Başlangıç koşulları ◁▷

Malzeme grubu	Kalite	60 (200)	90 (300)	120 (400)	105 (500)	185 (617)	215 (717)	245 (800)	275 (900)	300 (1000)	m/dk.	Yüzey ilerleme/dk.
P	KCP40				◁▷						150	500
	KCU10						◁▷				200	650
	KCP25						◁▷				200	650
	KCP10							◁▷			250	180

Paslanmaz çelik — Hız — m/dk.Yüzey ilerleme/dk. — Başlangıç koşulları ◁▷

Malzeme grubu	Kalite	45 (150)	70 (233)	90 (300)	115 (383)	140 (467)	165 (550)	185 (617)	210 (700)	230 (767)	m/dk.	Yüzey ilerleme/dk.
M	KCP40					◁▷					140	450
	KCM15						◁▷				165	550
	KCU25						◁▷				165	550
	KCU10							◁▷			185	600

Dökme demir — Hız — m/dk.Yüzey ilerleme/dk. — Başlangıç koşulları ◁▷

Malzeme grubu	Kalite	90 (300)	135 (450)	180 (600)	225 (750)	275 (900)	320 (1050)	360 (1200)	410 (1350)	460 (1500)	m/dk.	Yüzey ilerleme/dk.
K	KCU25			◁▷							140	450
	KCU10				◁▷						165	550
	KCP25					◁▷					165	550
	KCP10						◁▷				185	600

Demir dışı metaller — Hız — m/dk.Yüzey ilerleme/dk. — Başlangıç koşulları ◁▷

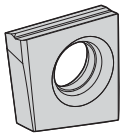
Malzeme grubu	Kalite	150 (500)	225 (750)	300 (1000)	380 (1267)	460 (1533)	535 (1783)	610 (2033)	685 (2283)	760 (2533)	m/dk.	Yüzey ilerleme/dk.
N	KCU10					◁▷					460	1500

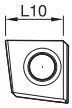
Isıl dirençli alaşımlar — Hız — m/dk.Yüzey ilerleme/dk. — Başlangıç koşulları ◁▷

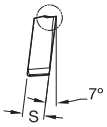
Malzeme grubu	Kalite	35 (117)	45 (150)	55 (183)	65 (217)	75 (250)	85 (283)	95 (317)	120 (400)	140 (467)	m/dk.	Yüzey ilerleme/dk.
S	KCU25		◁▷								45	150
	KCU10				◁▷						60	200

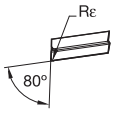
Sertleştirilmiş çelik — Hız — m/dk.Yüzey ilerleme/dk. — Başlangıç koşulları ◁▷

Malzeme grubu	Kalite	5 (17)	15 (50)	25 (83)	35 (117)	45 (150)	55 (183)	65 (217)	75 (250)	85 (283)	m/dk.	Yüzey ilerleme/dk.
H	KCU10				◁▷						30	100









● İlk tercih
○ Alternatif tercih

		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

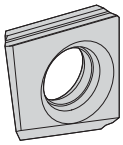
C2FIX-MN

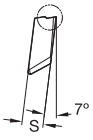
Katalog numarası	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
Sağ yönlü									
C2FIX110404RMN	10,70	4,00	0,40	–	–	–	–	●	–
C2FIX110405RMN	10,70	4,00	0,50	–	●	●	–	–	–
C2FIX150510RMN	14,50	5,00	1,00	–	●	–	–	–	–
C2FIX150512RMN	14,50	5,00	1,20	–	–	–	–	–	●
C2FIX150505RMN	14,70	5,00	0,50	–	●	–	–	–	–
Sol yönlü									
C2FIX110404LMN	10,70	4,00	0,40	–	–	–	–	–	●
C2FIX110405LMN	10,70	4,00	0,50	–	●	●	–	●	–
C2FIX110408LMN	10,70	4,00	0,80	–	●	–	–	–	–
C2FIX150510LMN	14,50	5,00	1,00	–	●	●	–	–	–
C2FIX150508LMN	14,60	5,00	0,80	–	●	–	–	●	●
C2FIX150504LMN	14,70	5,00	0,40	–	–	●	–	–	●
C2FIX150505LMN	14,70	5,00	0,50	–	●	●	–	●	–
C2FIX180610LMN	17,50	6,00	1,00	–	●	●	–	●	–

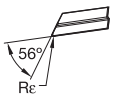
beyond

P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

● İlk tercih
○ Alternatif tercih

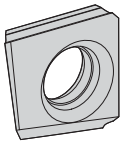


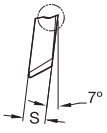



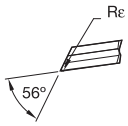


D2FIX-MN

Katalog numarası	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
Sağ yönlü									
D2FIX110405RMN	10,50	4,00	0,50	–	●	●	–	–	–
D2FIX150508RMN	14,20	5,00	0,80	–	●	–	–	–	–
D2FIX150505RMN	14,50	5,00	0,50	●	●	●	–	–	–
D2FIX150504RMN	14,60	5,00	0,40	–	●	–	–	–	–
D2FIX150503RMN	14,70	5,00	0,30	–	●	–	–	–	–
Sol yönlü									
D2FIX110405LMN	10,50	4,00	0,50	–	●	●	–	–	–
D2FIX150508LMN	14,20	5,00	0,80	–	●	–	–	–	–
D2FIX150505LMN	14,50	5,00	0,50	–	●	–	–	–	–



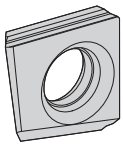
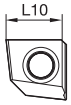



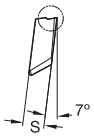


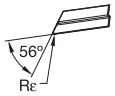
D2FIX-HP

Katalog numarası	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
Sağ yönlü									
D2FIX110404RHP	10,00	4,00	0,40	–	–	–	–	–	●
D2FIX110403RHP	10,10	4,00	0,30	–	●	–	–	●	–
D2FIX150508RHP	13,60	5,00	0,80	–	–	–	–	●	●
D2FIX150504RHP	14,00	5,00	0,40	–	–	–	–	●	●
D2FIX150503RHP	14,10	5,00	0,30	–	●	–	–	●	–
Sol yönlü									
D2FIX110403LHP	10,10	4,00	0,30	–	–	–	–	●	–
D2FIX150508LHP	13,60	5,00	0,80	–	–	–	–	●	–
D2FIX150503LHP	14,10	5,00	0,30	–	–	–	–	●	–

beyond



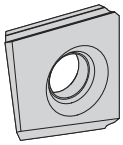
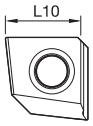


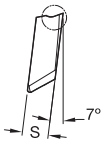
● İlk tercih
○ Alternatif tercih

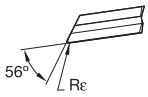
		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

D2FIX-MS

Katalog numarası	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
Sağ yönlü									
D2FIX150505RMS	13,90	5,00	0,50	–	–	–	–	●	–
D2FIX150503RMS	14,10	5,00	0,30	–	–	–	–	●	–
Sol yönlü									
D2FIX150505LMS	13,90	5,00	0,50	–	–	–	–	●	–
D2FIX150503LMS	14,10	5,00	0,30	–	–	–	–	●	–

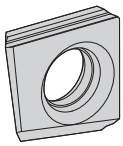
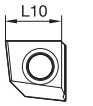



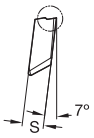


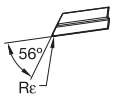


D2FIX-FN

Katalog numarası	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
Sağ yönlü									
D2FIX150505RFN	13,90	5,00	0,50	–	●	–	–	●	–

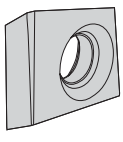
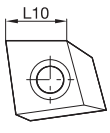



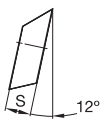


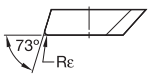


D2FIX-RN

Katalog numarası	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
Sağ yönlü									
D2FIX150505RRN	14,50	5,00	0,50	●	–	●	–	–	–
Sol yönlü									
D2FIX150505LRN	14,50	5,00	0,50	–	●	–	–	–	–



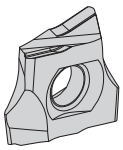


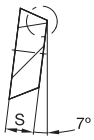
E2FIX-HP

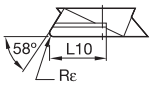
Katalog numarası	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
Sağ yönlü									
E2FIX100505RHP	10,50	5,00	0,50	–	–	–	–	●	–
Sol yönlü									
E2FIX100505LHP	10,50	5,00	0,50	–	–	–	–	●	–

Uygulama özellikli

beyond





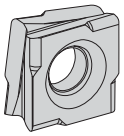
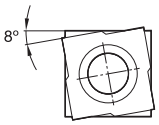


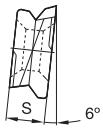
● İlk tercih
○ Alternatif tercih

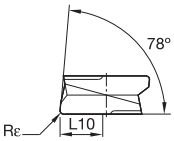
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

D4FIX-MN

Katalog numarası	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
Sağ yönlü									
D4FIX140608RMN	6,70	5,90	0,80	●	●	–	–	●	●
D4FIX140605RMN	7,00	5,90	0,50	●	●	–	–	–	–
D4FIX140604RMN	7,10	5,90	0,40	–	–	●	–	–	●
D4FIX140603RMN	7,20	5,90	0,30	●	●	–	–	–	–
Sol yönlü									
D4FIX140608LMN	6,70	5,90	0,80	–	●	–	–	–	–

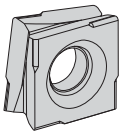



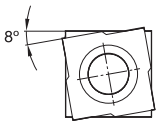


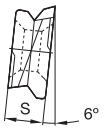


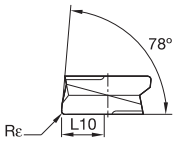
C8FIX-RN

Katalog numarası	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
Sağ yönlü									
C8FIX150612RRN	8,60	6,60	1,20	–	●	–	–	–	–
C8FIX150608RRN	8,90	6,60	0,80	●	●	●	–	–	●
C8FIX150605RRN	9,10	6,60	0,50	●	●	●	–	●	●
C8FIX180812RRN	10,60	7,90	1,20	–	●	●	–	–	●
C8FIX180808RRN	10,90	7,90	0,80	–	●	●	–	–	–
Sol yönlü									
C8FIX150612LRN	8,60	6,60	1,20	–	●	–	–	–	–
C8FIX150608LRN	8,90	6,60	0,80	–	●	–	–	–	●
C8FIX150605LRN	9,10	6,60	0,50	–	●	●	–	–	●
C8FIX180812LRN	10,60	7,90	1,20	–	●	–	–	–	–







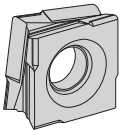


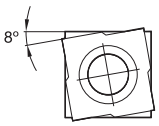
● İlk tercih
○ Alternatif tercih

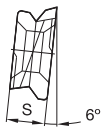
		KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
P		●	●	●	●	●	●
M		○	○	●	●	●	●
K		●	●	●	●	●	●
N						●	●
S				○	○	●	●
H							

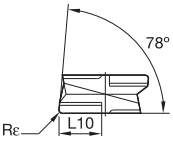
C8FIX-RP

Katalog numarası	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
Sağ yönlü									
C8FIX120508RRP	6,90	5,50	0,80	●	●	–	–	–	–
C8FIX120505RRP	7,10	5,50	0,50	–	●	–	–	–	●
C8FIX120504RRP	7,20	5,50	0,40	●	●	–	–	–	–
C8FIX120503RRP	7,30	5,50	0,30	–	●	●	–	–	–
Sol yönlü									
C8FIX120508LRP	6,90	5,50	0,80	–	●	●	–	–	–
C8FIX150612LRP	7,80	6,60	1,20	–	●	–	–	–	–
C8FIX150608LRP	8,80	6,60	0,80	–	–	–	–	–	●







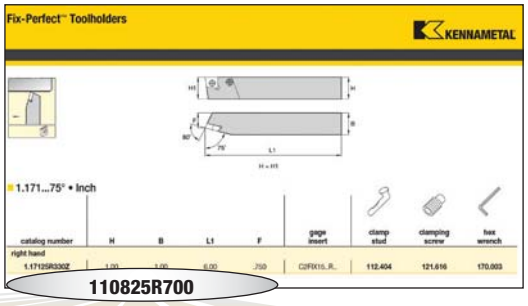


C8FIX-MP

Katalog numarası	L10	S	Rε	KCP10	KCP25	KCP40	KCM15	KCU10	KCU25
Sağ yönlü									
C8FIX120503RMP	7,30	5,50	0,30	–	●	–	–	●	●
C8FIX150603RMP	9,30	6,60	0,30	●	●	●	–	●	●
C8FIX180805RMP	11,10	7,90	0,50	–	●	–	–	–	–
Sol yönlü									
C8FIX120503LMP	7,30	5,50	0,30	●	●	–	–	●	–
C8FIX150603LMP	9,30	6,60	0,30	–	●	–	–	–	–

Katalog numaraları nasıl kullanılır?

Kataloğumuzda yer alan numara sistemindeki her bir karakter ilgili ürünün belirli özelliğini tanımlar. Hangi özelliklerin geçerli olduğunu kolaylıkla saptamak için aşağıdaki anahtar sütunlar ve karşılığında yer alan görseller kullanılır.



1	1	08	25	R	7	0	0
Tornalama programı	Kesme kenarı sayısı	Sürüm	Şaft ölçüleri	İşleme yönü	Kesici uç ölçüsü ve tipi	Kesici uç şekli	Bağlama vidası desteği

1 = Fix-Perfect

1 =
2 Kesme kenarlı kesici uçlar

3 =
4 Kesme kenarlı kesici uçlar

7 =
8 Kesme kenarlı kesici uçlar

08 = Alüminyumu işleme için 90° veya 93° ayarı
16 = 92° ayar açısı
20 = 92° ayar açısı
22 = 92° ayar açısı
30 = 75° ayar açısı
71 = 75° ayar açısı
72 = 45° ayar açısı
77 = 90° ayar açısı
80 = 90° ayar açısı

R = Sağ yönlü
L = Sol yönlü

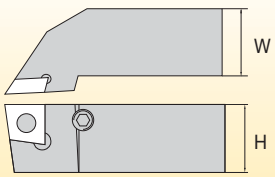
0 =
Ana kesme kenarından etkinleştirilmiştir

1 =
Diş dibi kesme kenarı

2 =
Yukarı

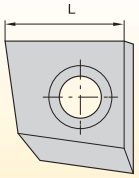
5 =
Keskin kenarlı tam kartuşlu ana kesme kenarı

6 =
Keskin kenarlı tam kartuşlu diş dibi kesme kenarı

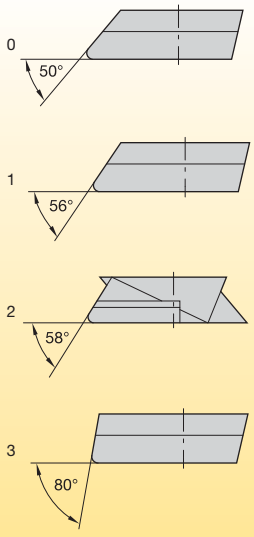


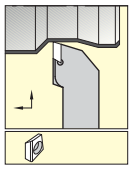
Takım tutucu

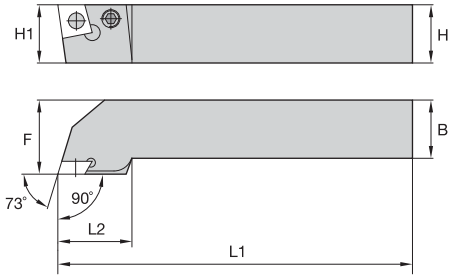
10 = 10 x 10mm
11 = 40 x 40mm
16 = 16 x 16mm
20 = 20 x 20mm
21 = 50 x 50mm
25 = 25 x 25mm
32 = 32 x 25mm
32 x 32mm
40 = 40 x 32mm



	L	Kesme kenarları
0	8mm 20mm 25mm	4 4 4
1	10.5mm 12mm	2 8
3	14.5mm 15mm	2 8
4	17.5mm 18mm	2 8
5	23.5mm 21mm	2 8
7	10.5mm	2 Alu



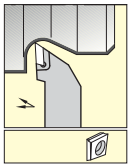


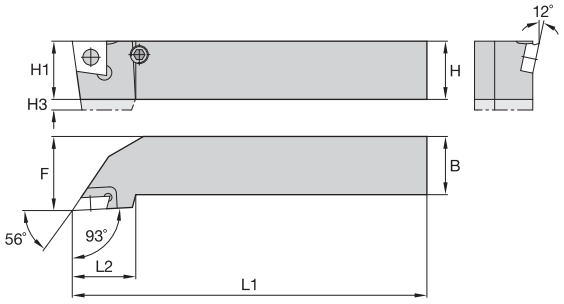


H = H1

1.108...90° • Metrik

Katalog numarası	H	B	L1	F	Ayar ucu	Sıkma pimi	Bağlama vidası	Altıgen anahtar
Sağ yönlü								
1.10825R700	25	25	150,0	32,0	E2FIX10..R..	**410.081**	**121.616**	**170.003**

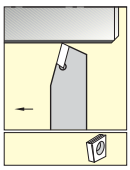


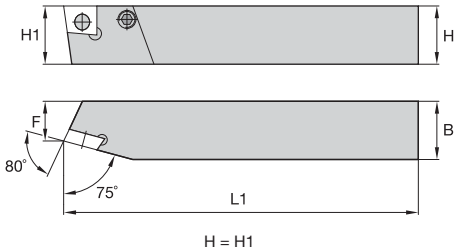


H = H1

1.108...93° • Metrik

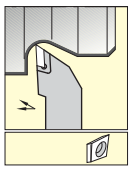
Katalog numarası	H	H3	B	L1	F	Ayar ucu	Sıkma pimi	Bağlama vidası	Altıgen anahtar
Sağ yönlü									
1.10820R310	20	5	20	125,0	25,0	D2FIX15..RHP/FN/MS	**112.403**	**121.612**	**170.003**
1.10825R310	25	–	25	150,0	32,0	D2FIX15..RHP/FN/MS	**112.404**	**121.616**	**170.003**
Sol yönlü									
1.10825L310	25	5	25	150,0	32,0	D2FIX15..LHP/FN/MS	**112.404**	**121.616**	**170.003**

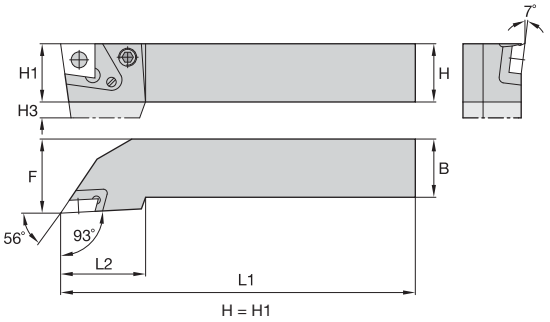




1.171...75° • Metrik

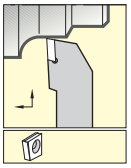
Katalog numarası	H	B	L1	F	Ayar ucu	Sıkma pimi	Bağlama vidası	Altıgen anahtar
Sol yönlü								
1.17125L330	25	25	150,0	17,0	C2FIX15..L..	**112.404**	**121.616**	**170.003**

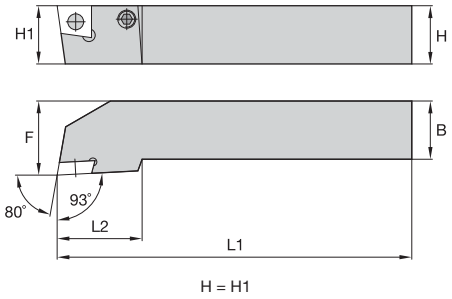




1.18 • Metrik

Katalog numarası	H	H3	B	L1	F	Ayar ucu	Sıkma pimi	Bağlama vidası	Altıgen anahtar	çelik kartuş grubu
Sağ yönlü										
1.18016R110	16	4	16	100,0	24,0	D2FIX11..R..	**112.244**	**121.612**	**170.003**	–
1.18020R110	20	–	20	125,0	25,0	D2FIX11..R..	**112.244**	**121.612**	**170.003**	–
1.18020R310	20	5	20	125,0	26,0	D2FIX15..R..	**112.403**	**121.612**	**170.003**	–
1.18025R110	25	–	25	150,0	32,0	D2FIX11..R..	**112.244**	**121.612**	**170.003**	–
1.18025R310	25	–	25	150,0	32,0	D2FIX15..R..	**112.404**	**121.616**	**170.003**	–
1.18025R315	25	7	25	150,0	32,0	D2FIX15..R..	**112.505**	**121.616**	**170.003**	**132.151**
1.18032R315	32	–	25	170,0	32,0	D2FIX15..R..	**112.505**	**121.616**	**170.003**	**132.151**
Sol yönlü										
1.18016L110	16	4	16	100,0	24,0	D2FIX11..L..	**112.244**	**121.612**	**170.003**	–
1.18020L110	20	–	20	125,0	25,0	D2FIX11..L..	**112.244**	**121.612**	**170.003**	–
1.18025L310	25	–	25	150,0	32,0	D2FIX15..L..	**112.404**	**121.616**	**170.003**	–
1.18025L315	25	7	25	150,0	32,0	D2FIX15..L..	**112.505**	**121.616**	**170.003**	**132.156**
1.18032L315	32	–	25	170,0	32,0	D2FIX15..L..	**112.505**	**121.616**	**170.003**	**132.156**

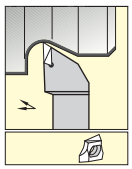


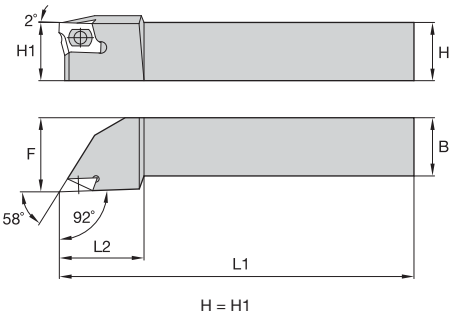


1.180...93° • Metrik

Uygulama özellikli

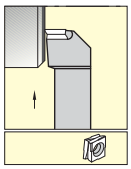
Katalog numarası	H	B	L1	F	Ayar ucu	Sıkma pimi	Bağlama vidası	Altıgen anahtar
Sol yönlü								
1.18025L330	25	25	150,0	32,0	C2FIX15..L..	**112.404**	**121.616**	**170.003**

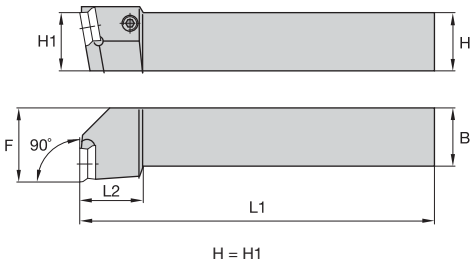




1.380...92° • Metrik

Katalog numarası	H	B	L1	F	Ayar ucu	Sıkma pimi	Bağlama vidası	Altıgen anahtar
Sağ yönlü								
1.38020R021	20	20	125,0	25,0	D4FIX..R..	**114.111**	**121.812**	**170.004**
1.38025R021	25	25	150,0	32,0	D4FIX..R..	**114.114**	**121.816**	**170.004**
Sol yönlü								
1.38025L021	25	25	150,0	32,0	D4FIX..L..	**114.114**	**121.816**	**170.004**

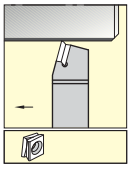


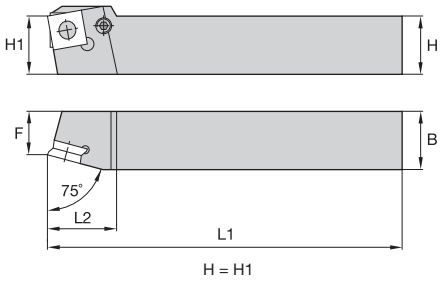


1.777...90° • Metrik

Katalog numarası	H	B	L1	F	Ayar ucu	Sıkma pimi	Bağlama vidası	Altıgen anahtar
Sağ yönlü								
1.77725R301	25	25	150,0	32,0	C8FIX15..L..	**118.314**	**121.816**	**170.004**

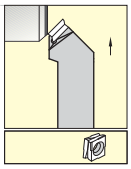
NOT: Sağ yönlü takım sol yönlü kesici uç gerektirir.

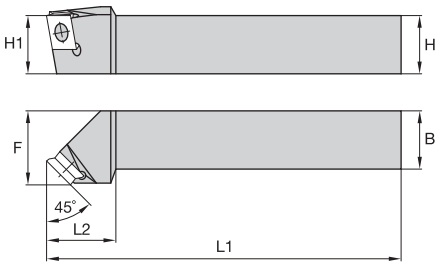




1.771...75° • Metrik

Katalog numarası	H	B	L1	F	Ayar ucu	Sıkma pimi	Bağlama vidası	Altıgen anahtar
Sağ yönlü								
1.77120R100	20	20	125,0	17,0	C8FIX12..R..	**118.204**	**121.612**	**170.003**
1.77125R300	25	25	150,0	21,0	C8FIX115..R..	**410.084**	**121.816**	**170.004**
1.77132R400	32	32	170,0	27,0	C8FIX18..R..	**410.091**	–	–
Sol yönlü								
1.77120L100	20	20	125,0	17,0	C8FIX12..L..	**118.204**	**121.612**	**170.003**



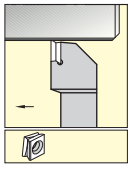


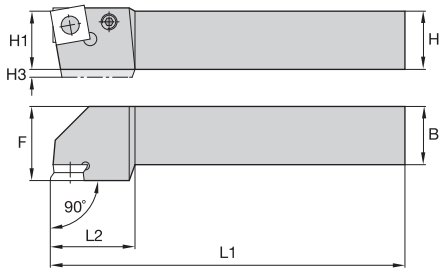
H = H1

1.772...45° • Metrik

Katalog numarası	H	B	L1	F	Ayar ucu	Sıkma pimi	Bağlama vidası	Altıgen anahtar
Sağ yönlü								
1.77225R301	25	25	150,0	32,0	C8FIX15..L..	**118.314**	**121.816**	**170.004**

NOT: C8FIX15..L.. sadece dalma için kullanılabilir.
Hem dalma hem tornalama için, C4FIX15..L.. kullanılmalıdır.





H = H1

1.780...90° • Metrik

Katalog numarası	H	H3	B	L1	F	Ayar ucu	Sıkma pimi	Bağlama vidası	Altıgen anahtar
Sağ yönlü									
1.78012R103	12	–	12	80,0	14,0	C8FIX12..R..	**–**	**–**	**170.003**
1.78016R100	16	4	16	100,0	25,0	C8FIX12..R..	**118.204**	**121.616**	**170.003**
1.78020R100	20	–	20	125,0	25,0	C8FIX12..R..	**118.204**	**121.616**	**170.003**
1.78025R100	25	–	25	150,0	32,0	1.81201R...	**118.204**	**121.616**	**170.003**
1.78025R300	25	–	25	150,0	32,0	C8FIX15..R..	**410.084**	**121.816**	**170.004**
1.78032R400	32	–	32	170,0	40,0	C8FIX18..R..	**410.091**	**121.825**	**170.004**
Sol yönlü									
1.78025L100	25	–	25	150,0	32,0	1.81202L...	**118.204**	**121.616**	**170.003**
1.78025L300	25	–	25	150,0	32,0	C8FIX15..L..	**410.084**	**121.816**	**170.004**

Sığ kanal tornalama ve tornalama uygulamalarınız için kanal açma takımları ve **Beyond**™ kesici uçlar

Top Notch™



Top Notch Kanal açma yüksek verimlilik için kanıtlanmış çözümdür. Top Notch sistemi, mükemmel yüzey kalitesi ve üstün takım ömrü sağlamak için kararlı takım performansı, doğru kesici uç değiştirme ve üstün bağlama özelliği sağlamaktadır.

ÖZELLİKLER VE AVANTAJLAR

- Beyond PVD kaplamalı kaliteler çok çeşitli iş parçası malzemelerini kesmek için tasarlanmıştır.
- Rijit bağlama özelliği, en tok kesmeler sırasında bile kesici yuva içinde güvenilirlikli bir şekilde kilitler.
- Çok yönlü tasarım, tek bir sistemin dış çapta ve iç çapta kanal açma, alına kanal açma, geriye tornalama, alttan kesme ve tornada pürüzsüz vida dişi açma işlemlerinin gerçekleşmesine olanak sağlar.
- Talaş kontrollü kesici uçlar kanal açmada mükemmel talaş boşalması sağlamakta ve çok yönlü tornalamada daha iyi bir talaş kontrolü elde etmektedir.

Yetkili Kennametal bayisindeki ya da **kennametal.com** adresindeki avantajlardan yaralanın.

KENNAMETAL®

kennametal.com

Beyond™ Top Notch™ Profil işleme

Top Notch yüksek verimlilikte kanıtlanmış bir çözümdür. Top Notch sistemi mükemmel hassas son işlemeli yüzey elde etmek için tutarlı takım performansı, hassas değiştirme ve üstün bağlama ve ayrıca uzun takım ömrü sağlar.



Özellikler ve Avantajlar

Beyond™ Kaliteler

Daha yüksek verimlilik ve kazanç sağlama

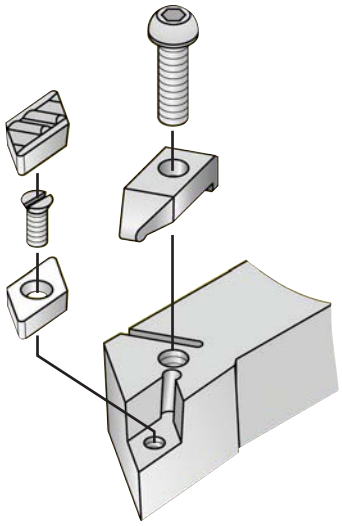
- Düşük kesme kuvvetleri hızı artırır ve çevrim süresini kısaltır.
- Uzun takım ömrü.

Güvenilirlik

- Öngörülebilir takım ömrü/ Tekdüze aşınma.
- Talaş akışı hasarına karşı dayanıklıdır.
- Tutarlı yüzey pürüzlülüğü.

Çok yönlülük

- Ürünler, geniş bir uygulama alanında kullanılabilir.
- Düşük hızdan yüksek hıza kadar olan uygulamalarda kullanılır.
- Tam kapsamlı ürün programı.
- Çelik, dökme demir, paslanmaz çelik ve ısıl dirençli alaşımların hassas son ve kaba tornalama işlemlerinde kullanılır.



FP Geometri

- Daha yüksek talaş kaldırma oranı.
- Çok yönlülük.
- Uzun takım ömrü.
- Çok çeşitli kesme koşullarında ve geniş kapsamlı iş parçası malzemelerinde en uygun duruma getirilmiş talaş kontrolü.
- İyileştirilmiş hassas son işlemeli yüzey kalitesi.
- Daha iyi değiştirilebilirlik.
- Kesici uç değiştirmede daha kısa ayar süresi.



UF Geometri

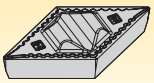
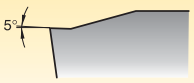
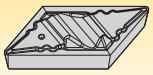
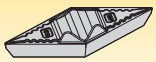
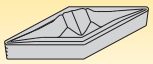
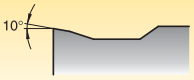
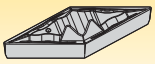
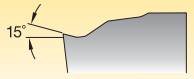
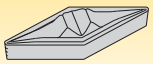
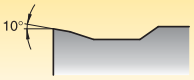
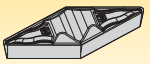
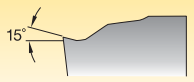
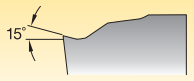
- Kesme kuvvetlerini azaltır.
- Uzun takım ömrü.
- Çok çeşitli kesme koşullarında en uygun duruma getirilen talaş kontrolü.
- Hassas son işleme uygulamalarında talaş kontrolü.

HP Geometri

- Kesme kuvvetlerini azaltır.
- Uzun takım ömrü.
- İş parçası hassas son işlemeli yüzey kalitesini iyileştirmek için titreşimlerin oluşmasını engeller.
- Daha iyi değiştirilebilirlik.
- İşleme ölçülerinde iyi kontrol.
- İş parçası malzemesi yapışmasını azaltır.

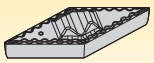
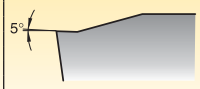
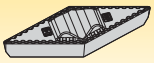
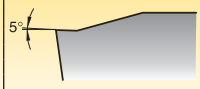
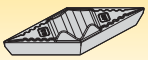
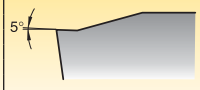
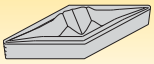
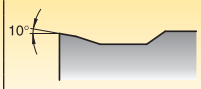
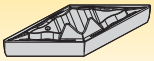
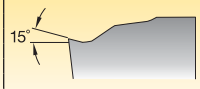
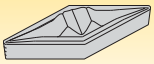
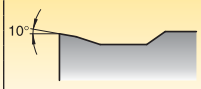
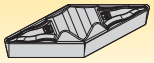
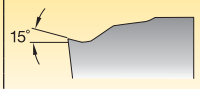
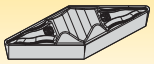
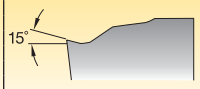
Geometri seçimi — İlerleme oranına ve kesme derinliğine göre seçme

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

İşlem	Kesici uç tipine dayalı uygulama	Kesici uç geometrisi	Profil	İlerleme oranı — mm: 0,04 / 0,063 / 0,01 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 5,0 Kesme derinliği — mm: 0,1 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 4,0 / 6,3 / 10,0
İnce son işleme	DCGR-UF			0,1–0,3 0,1–1,3
	KCGR-UF			0,1–0,3 0,1–1,3
Hassas son işleme	DCGR			0,1–0,3 0,1–1,3
	KCGR			0,1–0,4 0,3–2,0
	DCGR-FP			0,063–0,25 0,16–1,6
	DCGR-HP			0,1–0,4 0,3–2,0
	KCGR-FP			0,063–0,25 0,16–1,6
	KCGR-HP			0,063–0,25 0,16–1,6

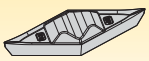
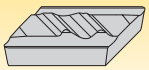
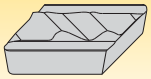
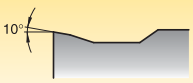
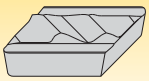
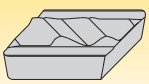
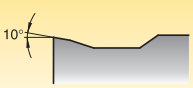
Geometri seçimi — İlerleme oranına ve kesme derinliğine göre seçme

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

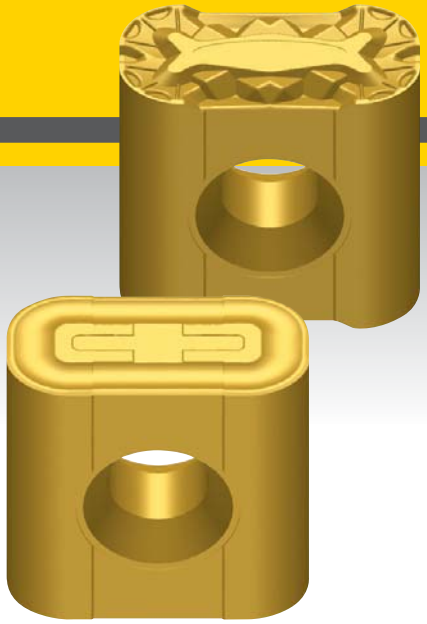
İşlem	Kesici uç tipine dayalı uygulama	Kesici uç geometrisi	Profil	İlerleme oranı — mm: 0,04 / 0,063 / 0,01 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 5,0 Kesme derinliği — mm: 0,1 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 4,0 / 6,3 / 10,0
İnce son işleme	VBMR-UF			0,1–0,3 0,1–1,3
	VCMR-UF			0,1–0,3 0,1–1,3
	VPGR-UF			0,1–0,3 0,1–1,3
Hassas son işleme	VBMR			0,1–0,4 0,3–2,0
	VBMR-FP			0,063–0,25 0,16–1,6
	VCGR			0,1–0,4 0,3–2,0
	VCMR-FP			0,063–0,25 0,16–1,6
	VPGR-FP			0,063–0,25 0,16–1,6

Geometri seçimi— İlerleme oranına ve kesme derinliğine göre seçme

P	Çelik
M	Paslanmaz çelik
K	Dökme demir
N	Demir dışı metaller
S	Isıl dirençli alaşımlar
H	Sertleştirilmiş malzemeler

İşlem	Kesici uç tipine dayalı uygulama	Kesici uç geometrisi	Profil	İlerleme oranı — mm: 0,04 / 0,063 / 0,01 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 5,0 — Kesme derinliği — mm: 0,1 / 0,16 / 0,25 / 0,4 / 0,63 / 1,0 / 1,6 / 2,5 / 4,0 / 6,3 / 10,0
Hassas son işleme	**VPGR-HP**			0,2–0,4 0,6–2,3
Hassas son işleme	**KNGX-15**			0,2–0,4 0,8–2,8
Hassas son işleme	**KNGX-20**			0,2–0,5 1,0–3,0
	KNGX-25			0,3–0,6 1,1–3,6
Hassas son işleme	**KNGX-32**			0,3–0,7 1,5–5,1

Demiryolları tekerlekleri ve tekerlek donanımlarının işlenmesi için Kennametal takımları



Kennametal, demiryolu atölyelerinde tekerlek ve aks bakımı için geniş kapsamlı bir takımlama programı sunar. Tüm takımlar maksimum talaş kaldırma ve daha yüksek üretkenlik için en yeni takımlama teknolojilerini kapsar. Tüm takımlar çok geniş kapsamlı işleme koşulları altında uzun süreler boyunca gerçek anlamda kullanılarak performansları kanıtlanmıştır. Standart satışa hazır kesici uçlar ve daha az donanım parçası stoklama ve işlem maliyetlerini azaltır. Bu ürün programı kapsamına alınan takımlar, monte edilmiş tekerlek gruplarının yeniden işlenmesinde, tekerlek deliklerinin delinmesinde, aşınan tekerlek yüzeylerinin tornalanarak düzeltilmesinde, aks tornalamada ve şaft yatağı çapaklarının temizlenerek parlatılmasında kullanılır.

Yetkili Kennametal satış bayilerinde veya **kennametal.com** adresinde avantajlardan yararlanın.

KENNAMETAL®

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Adım 1 • Kesici uç geometrisi seçimi

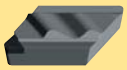
Negatif kesici uçlar



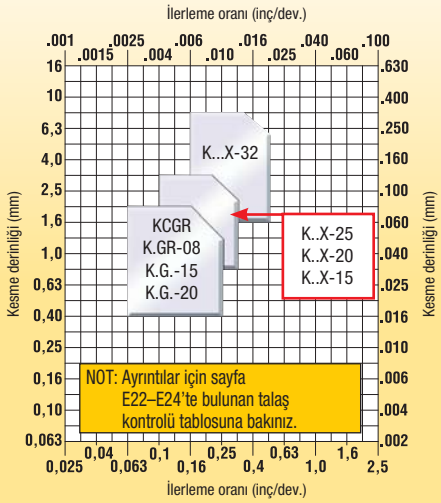
-K...X-32
Kaba işleme



-K...X-25–K...X-15,
Orta işleme



-K. GR-08, K.G.-15,
K.G.-20
Hassas son işleme



Pozitif kesici uçlar



-VCMR
Orta işleme



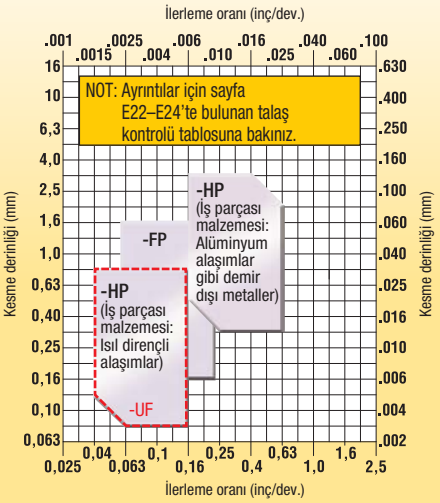
-.CGR, VBMR
Hassas son işleme



-VCGN
Hassas son işleme



-KCGR
Hassas son işleme



Talaş kontrol aralığı
-UF: ilerleme 0.08–0.3mm/dev.; Kesme derinliği 0.1–1.3mm
-FP: İlerleme 0.1–0.3mm/dev.; Kesme derinliği 0.1–1.3mm
-HP: İlerleme 028–0.4mm/dev.; Kesme derinliği 0.6–2.3mm

Adım 2 • Kalite seçimi

		Çelik			Paslanmaz çelik		
Kesme koşulu		**Hassas son işleme**	**Orta işleme**	**Kaba kesme**	**Hassas son işleme**	**Orta işleme**	**Kaba kesme**
Aşırı derecede ağır darbeli kesme		**KCP25**	**KCM25**	**KCM25**	**KCM25**	**KCM25**	**KCM25**
Hafif biçimde darbeli kesme		**KCP10**	**KCP25**	**KCP25**	**KC5010/KCU10**	**KC5025/KCU25**	**KC5025/KCU25**
Değişken kesme derinliği, yüzey kabuğu veya dövme kabuğu		**KT315**	**KCP25**	**KCP25**	**KT315**	**KCM25**	**KCM25**
Düz hassas kesme, önceden tornalanmış yüzey		**KT315**	**KCP05/KCP10**	**KCP10**	**KT315**	**KC5010/KCU10**	**KCM25**

		Dökme demir			Demir dışı metaller		
Kesme koşulu		**Hassas son işleme**	**Orta işleme**	**Kaba kesme**	**Hassas son işleme**	**Orta işleme**	**Kaba kesme**
Aşırı derecede ağır darbeli kesme		**KCP10**	**KCP10**	**KCP10**	**KC5010/KCU10**	**KC5010/KCU10**	**KC5010/K313/ KCU10**
Hafif biçimde darbeli kesme		**KCP05**	**KCP05**	**KCP05**	**KC5410/KD1425**	**KC5010/KCU10**	**KC5010**
Değişken kesme derinliği, yüzey kabuğu veya dövme kabuğu		**KCK05**	**KCK05**	**KCK05**	**KD1425**	**KC5410**	**KC5410**
Düz hassas kesme, önceden tornalanmış yüzey		**KC5010/KCU10**	**KC5010/KCU10**	**KC5010/KCU10**	**KD1425**	**KC5410**	**KC5410**

		Isıl dirençli alaşımlar		
Kesme koşulu		**Hassas son işleme**	**Orta işleme**	**Kaba kesme**
Aşırı derecede ağır darbeli kesme		**KC5025/KUC25**	**K68**	**K68**
Hafif biçimde darbeli kesme		**KC5010**	**KC5010**	**KCM25**
Değişken kesme derinliği, yüzey kabuğu veya dövme kabuğu		**KC5010**	**KC5010**	**KC5010**
Düz hassas kesme, önceden tornalanmış yüzey		**KC5010/KCU10/ K313**	**KC5010/KCU10**	**KC5010**

Kesme hızı seçimi

Çelik — Hız — m/dk.Yüzey ilerleme/dk. — Başlangıç koşulları ◁▷

Malzeme grubu	Kalite	50 (170)	100 (330)	150 (490)	200 (655)	250 (820)	300 (980)	350 (1150)	400 (1300)	m/dk.	Yüzey ilerleme/dk.
P	KT315					◁▷				260	850
	KCP05/KCP10					◁▷				340	800
	KCP25				◁▷					180	600
	KCM25			◁▷						165	550

Paslanmaz çelik — Hız — m/dk.Yüzey ilerleme/dk. — Başlangıç koşulları ◁▷

Malzeme grubu	Kalite	50 (170)	100 (330)	150 (490)	200 (655)	250 (820)	300 (980)	350 (1150)	400 (1300)	m/dk.	Yüzey ilerleme/dk.
M	KT315			◁▷						230	750
	KC5010/KCU10				◁▷					180	600
	KC5025/KCU25		◁▷							120	400
	KCM25			◁▷						150	500

Dökme demir — Hız — m/dk.Yüzey ilerleme/dk. — Başlangıç koşulları ◁▷

Malzeme grubu	Kalite	150 (490)	200 (655)	250 (820)	300 (980)	350 (1150)	400 (1300)	500 (1600)	750 (2400)	m/dk.	Yüzey ilerleme/dk.
K	KB1345								◁▷	760	2520
	KT315				◁▷					275	900
	KC5010/KCU10			◁▷						245	800
	KCK20			◁▷						245	800
	KCP25			◁▷						230	750

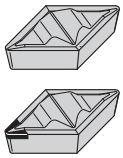
Demir dışı metaller — Hız — m/dk.Yüzey ilerleme/dk. — Başlangıç koşulları ◁▷

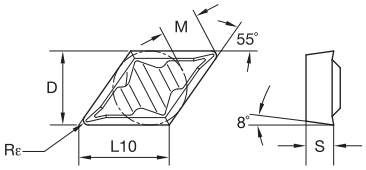
Malzeme grubu	Kalite	250 (800)	500 (1600)	750 (2400)	1000 (3200)	1250 (4000)	1500 (4800)	1750 (5600)	2000 (6400)	m/dk.	Yüzey ilerleme/dk.
N	K01425			◁▷						765	2500
	KC5410		◁▷							550	1800
	KC5010/KCU10		◁▷							460	1500
	K68/K313	◁▷								150	500

Isıl dirençli alaşımlar — Hız — m/dk.Yüzey ilerleme/dk. — Başlangıç koşulları ◁▷

Malzeme grubu	Kalite	15 (50)	40 (120)	55 (180)	80 (250)	100 (330)	170 (550)	200 (655)	120 (400)	m/dk.	Yüzey ilerleme/dk.
S	KC5010/KCU10				◁▷					60	200
	KC5025/KCU25			◁▷						50	170
	KCM25				◁▷					70	230
	K68/K31360		◁▷							30	100

◁▷ Önerilen başlangıç koşullarını gösterir. Özellikli uygulamanız için en uygun duruma getirme.



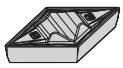


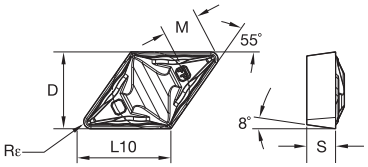
● İlk tercih
○ Alternatif tercih

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

DCGR • DPGR

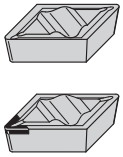
ISO Katalog numarası	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
DCGR150404	12,70	15,50	4,76	6,94	0,4	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
DCGR150408	12,70	15,50	4,76	6,48	0,8	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	●
DCGR150412	12,70	15,50	4,76	6,01	1,2	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–

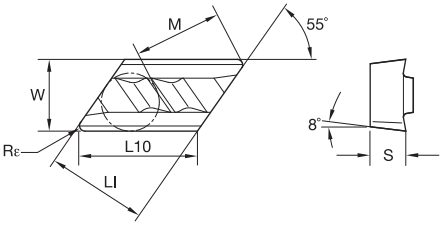




DCGR-FP • DPGR-FP

ISO Katalog numarası	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
DCGR150404FP	12,70	15,50	4,76	6,94	0,4	–	–	–	–	–	●	–	–	–	–	●	–	–	–	–	–	–
DCGR150408FP	12,70	15,50	4,76	6,48	0,8	–	–	–	●	–	–	–	–	–	●	–	–	–	–	–	–	–

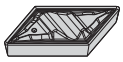


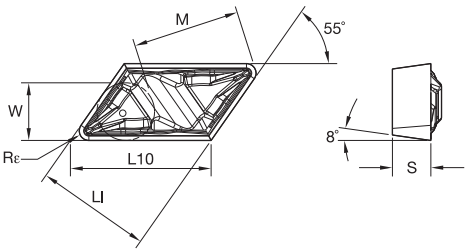


● İlk tercih
○ Alternatif tercih

KCGR • NPGR

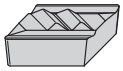
ISO Katalog numarası	LI	L10	W	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
Sağ yönlü																							
KCGR110304R08	9,53	11,60	6,35	3,18	9,10	0,4	●	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	●
KCGR110308R08	9,53	11,60	6,35	3,18	8,66	0,8	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●	–
Sol yönlü																							
KCGR110308L08	9,53	11,60	6,35	3,18	8,66	0,8	–	–	–	–	–	–	–	●	–	–	●	●	–	●	–	–	●
KCGR110304L08	9,53	11,60	6,35	3,18	9,10	0,4	●	–	–	–	–	–	–	–	–	–	●	●	●	●	–	●	–

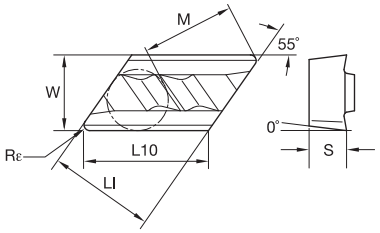




KCGR-FP • NPGR-FP

ISO Katalog numarası	LI	L10	W	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
Sağ yönlü																							
KCGR110304R08FP	9,52	11,60	6,35	3,18	9,13	0,4	–	–	–	●	–	●	–	–	–	●	–	–	–	–	–	–	–
KCGR110308R08FP	9,52	11,63	6,35	3,18	8,73	0,8	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–
Sol yönlü																							
KCGR110308L08FP	9,52	11,63	6,35	3,18	8,73	0,8	–	–	–	●	–	●	–	–	–	–	–	–	–	–	–	–	–
KCGR110304L08FP	9,52	11,60	6,35	3,18	9,13	0,4	–	–	–	●	–	●	–	–	–	●	–	●	–	–	–	–	–



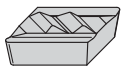


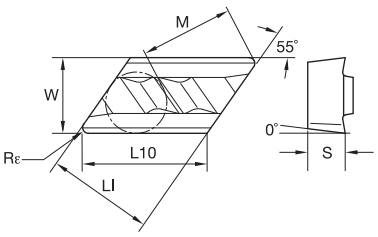
● İlk tercih
○ Alternatif tercih

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

KNGX • NPR/L

ISO Katalog numarası	LI	L10	W	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
Sağ yönlü																							
KNGX150404R20	12,68	15,44	9,47	4,76	13,46	0,4	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
KNGX150408R20	12,68	15,44	9,47	4,76	12,99	0,8	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–
KNGX150401R15	12,70	15,44	9,53	4,76	13,76	0,1	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNGX150402R15	12,70	15,44	9,53	4,76	13,67	0,2	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNGX220404R25	18,62	22,73	9,53	4,76	19,91	0,4	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–
KNGX220408R32	18,62	22,73	9,53	4,76	19,47	0,8	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
Sol yönlü																							
KNGX150408L20	12,68	15,44	9,47	4,76	12,99	0,8	●	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
KNGX150404L20	12,68	15,44	9,47	4,76	13,46	0,4	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–
KNGX220408L20	18,62	22,73	9,53	4,76	19,47	0,8	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–





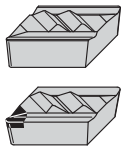
● İlk tercih
○ Alternatif tercih

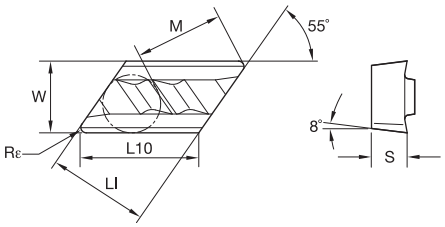
		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

KNUX • NPR/L

ISO Katalog numarası	LI	L10	W	S	M	Rε
Sağ yönlü						
KNUX150405R20	12,70	15,44	9,53	4,76	13,32	0,5
KNUX150405R25	12,70	15,44	9,53	4,76	13,32	0,5
KNUX150410R25	12,70	15,44	9,53	4,76	12,74	1,0
KNUX160405R1	16,15	17,51	9,52	4,76	–	0,5
KNUX160405R2	16,15	17,51	9,52	4,76	–	0,5
KNUX160410R1	16,15	17,51	9,52	4,76	–	1,0
KNUX160410R2	16,15	17,51	9,52	4,76	–	1,0
Sol yönlü						
KNUX150410L25	12,70	15,44	9,53	4,76	12,74	1,0
KNUX150405L25	12,70	15,44	9,53	4,76	13,32	0,5
KNUX160405L1	16,15	17,51	9,52	4,76	–	0,5
KNUX160405L2	16,15	17,51	9,52	4,76	–	0,5

	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
Sağ yönlü																	
KNUX150405R20	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
KNUX150405R25	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
KNUX150410R25	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNUX160405R1	–	–	–	–	–	–	–	●	●	–	–	●	–	–	–	–	–
KNUX160405R2	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
KNUX160410R1	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
KNUX160410R2	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–
Sol yönlü																	
KNUX150410L25	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNUX150405L25	●	–	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–
KNUX160405L1	–	–	–	–	–	–	–	●	●	–	–	–	–	–	–	–	–
KNUX160405L2	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–

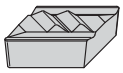


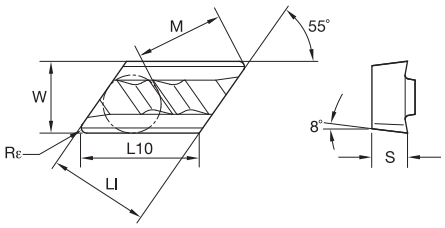


KCGX • NPR/L

ISO Katalog numarası	LI	L10	W	S	M	Rε
Sağ yönlü						
KCGX110301R15	9,53	11,60	6,35	3,18	9,43	0,1
KCGX110302R15	9,53	11,60	6,35	3,18	9,34	0,2
KCGX110304R15	9,53	11,60	6,35	3,18	9,11	0,4
KCGX110308R15	9,57	–	6,33	3,18	8,69	0,8
Sol yönlü						
KCGX110304L15	9,53	11,60	6,35	3,18	9,11	0,4
KCGX110302L15	9,53	11,60	6,35	3,18	9,34	0,2
KCGX110301L15	9,53	11,60	6,35	3,18	9,43	0,1
KCGX110308L15	9,57	–	6,33	3,18	8,69	0,8

	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
Sağ yönlü																	
KCGX110301R15	●	●	–	–	–	–	–	–	–	–	●	–	●	●	–	–	●
KCGX110302R15	–	●	–	–	–	–	–	–	–	–	●	●	●	–	–	●	●
KCGX110304R15	●	●	–	–	–	–	–	–	–	–	●	●	●	●	●	●	●
KCGX110308R15	●	–	–	–	–	–	–	–	–	–	●	–	●	●	–	●	–
Sol yönlü																	
KCGX110304L15	●	●	–	–	–	–	–	–	–	–	●	●	●	●	–	–	●
KCGX110302L15	–	●	–	–	–	–	–	–	–	–	●	●	–	–	–	–	●
KCGX110301L15	●	●	–	–	–	–	–	–	–	–	–	●	●	–	–	–	●
KCGX110308L15	●	●	–	–	–	–	–	–	–	–	–	●	●	–	–	–	–



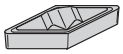


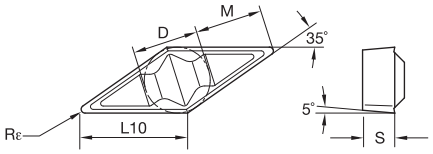
● İlk tercih
○ Alternatif tercih

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

KCUX • NPR/L

ISO Katalog numarası	LI	L10	W	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
Sağ yönlü																							
KCUX110302R15	9,50	11,60	6,33	3,18	9,40	0,2	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–
KCUX110305R15	9,53	11,60	6,35	3,18	9,06	0,5	●	–	–	–	●	–	–	–	–	–	●	–	●	–	–	–	–
KNUX150405R20	12,70	15,44	9,53	4,76	13,32	0,5	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
Sol yönlü																							
KCUX110302L15	9,46	11,60	6,33	3,18	9,40	0,2	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–
KCUX110305L15	9,53	11,60	6,35	3,18	9,06	0,5	●	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–

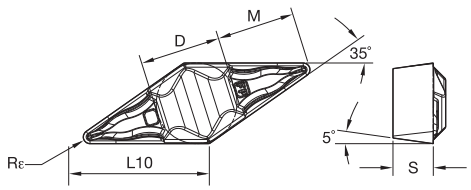




VBMR

ISO Katalog numarası	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VBMR110304	6,35	11,07	3,18	6,46	0,4	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	●	–

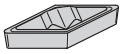


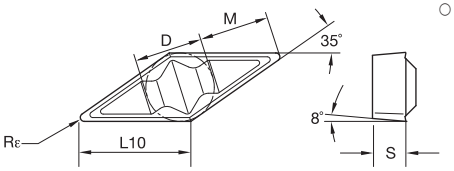


VBMR-FP

ISO Katalog numarası	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VBMR110302FP	6,35	11,04	3,18	6,91	0,2	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–
VBMR110304FP	6,35	11,07	3,18	6,46	0,4	–	–	–	●	–	●	–	–	–	–	–	●	–	–	–	–	–
VBMR110308FP	6,35	11,07	3,18	5,54	0,8	–	–	–	●	–	–	–	–	–	–	●	–	–	–	–	–	–

● İlk tercih
○ Alternatif tercih

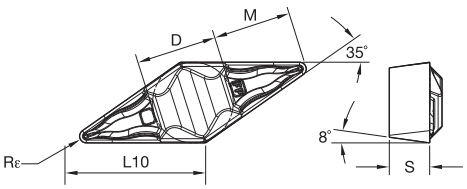




VCMR

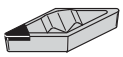
ISO Katalog numarası	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCMR160404	9,53	16,61	4,76	10,15	0,4	–	–	–	–	–	–	–	●	–	–	–	●	●	●	–	●	–
VCMR160408	9,53	16,61	4,76	9,23	0,8	–	–	–	–	–	–	–	●	–	–	●	●	●	●	–	●	–

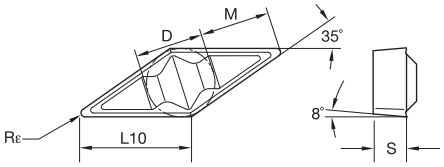




VCMR-FP

ISO Katalog numarası	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCMR160404FP	9,52	16,61	4,76	10,15	0,4	–	–	–	●	–	●	●	–	–	●	●	●	–	–	–	–	–
VCMR160408FP	9,52	16,61	4,76	9,23	0,8	–	–	–	●	–	●	●	–	–	●	–	–	–	–	–	–	–



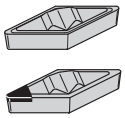


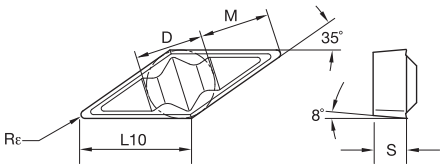
● İlk tercih
○ Alternatif tercih

		K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
P		●	●	●	●	●	●	○	○	○	○	●	●	●	●		●	
M		●	●	●					●	●	●	●	●	●	●		●	
K		●	●	●	○	○	○	●				●	●	●	●		●	
N		●	●	●								●	●	●	●	●		●
S		●	●	●					●	●	●	●	●	●	●			
H																		

VPGN

ISO Katalog numarası	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGN160404	9,53	16,61	4,76	10,15	0,4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●
VCGN160408	9,53	16,61	4,76	9,23	0,8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●

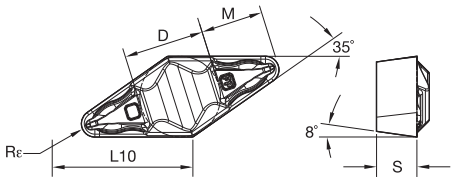




VCGR • VPGR

ISO Katalog numarası	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGR160402	9,53	16,61	4,76	10,60	0,2	●	–	–	–	–	–	–	–	–	–	●	●	●	●	●	–	–
VCGR160404	9,53	16,61	4,76	10,15	0,4	●	●	–	–	–	●	–	–	–	–	●	●	●	●	●	●	●
VCGR160408	9,52	16,61	4,76	9,23	0,8	●	●	–	–	●	–	–	–	–	–	●	●	●	●	●	●	●
VCGR160412	9,53	16,61	4,76	8,31	1,2	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	●
VCGR160416	9,53	16,61	4,76	7,38	1,6	–	–	–	–	–	–	–	–	–	–	●	–	●	–	–	–	–



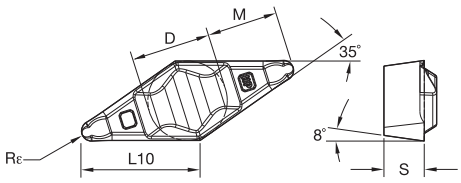


● İlk tercih
○ Alternatif tercih

VCGR-FP • VPGR-FP

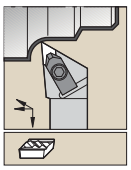
ISO Katalog numarası	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGR160402FP	9,52	16,61	4,76	10,60	0,2	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–
VCGR160404FP	9,52	16,61	4,76	10,15	0,4	–	–	–	●	–	●	–	–	–	●	●	–	–	–	–	–	–
VCGR160408FP	9,52	16,61	4,76	9,23	0,8	–	–	–	●	–	●	●	–	–	●	–	–	–	–	–	–	–
VCGR160412FP	9,52	16,61	4,76	8,31	1,2	–	–	–	●	–	●	●	–	–	–	–	–	–	–	–	–	–
VCGR160416FP	9,52	16,61	4,76	7,38	1,6	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–

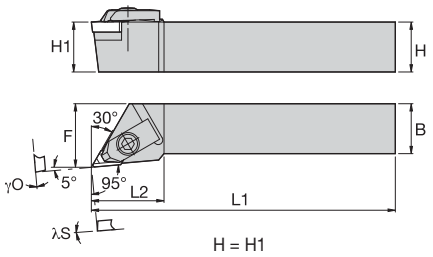




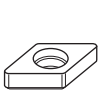
VCGR-HP • VPGR-HP

ISO Katalog numarası	D	L10	S	M	Rε	K68	K313	KU10	KCP10	KCP25B	KCP25	KCK05	KCM15B	KCM25B	KCM25	KCU10	KCU25	KC5010	KC5025	KC5410	KT315	KD1425
VCGR160404HP	9,52	16,61	4,76	–	0,4	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–



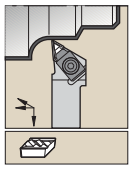


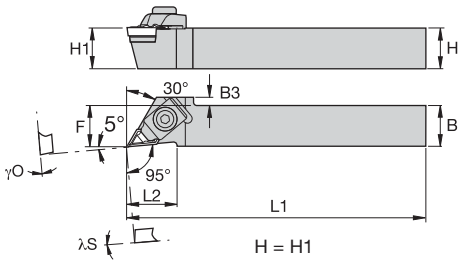
NKLC 95°



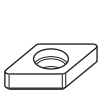



Katalog numarası	H	B	F	L1	λS°	γO°	Ayar ucu	Altlık	Altlık vidası	Altıgen (mm)	Çene	Çene vidası	Altıgen (mm)
Sağ yönlü													
NKLCR1616H11	16	16	20,0	100	0.0	0.0	KC..110305R	**SM885**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
NKLCR2020K11	20	20	25,0	125	0.0	0.0	KC..110305R	**SM885**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
NKLCR2525M11	25	25	32,0	150	0.0	0.0	KC..110305R	**SM885**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
Sol yönlü													
NKLCL2020K11	20	20	25,0	125	0.0	0.0	KC..110305L	**SM886**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
NKLCL2525M11	25	25	32,0	150	0.0	0.0	KC..110305L	**SM886**	**MS959**	3 mm	**CM68**	**MS524**	3 mm



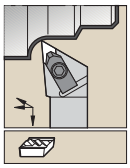


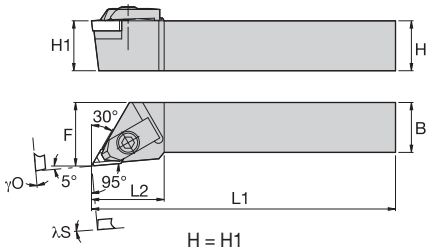
NKLC-F 95°



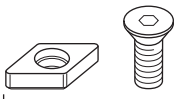
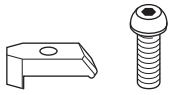



Katalog numarası	H	B	F	L1	λS°	γO°	Ayar ucu	Altlık	Altlık vidası	Altıgen (mm)	Çene	Çene vidası	Altıgen (mm)
Sağ yönlü													
NKLCRF1212M11Q	12	12	12,0	150	0.0	0.0	KC..110305R	**SM885**	**MS959**	3 mm	**CM180**	**MS524**	3 mm

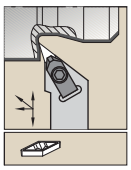


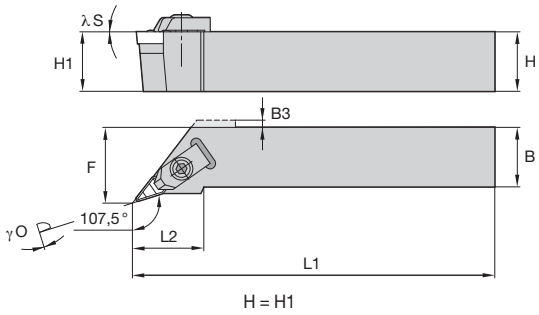


NKLN 95°

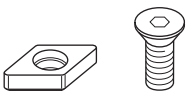
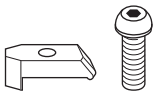



Katalog numarası	H	B	F	L1	λS°	γO°	Ayar ucu	Altlık	Altlık vidası	Altıgen (mm)	Çene	Çene vidası	Altıgen (mm)
Sağ yönlü													
NKLNR2020K15	20	20	25,0	125	-2.0	-5.0	KN..150410R	**SM872**	**MS111**	2 mm	**CM66**	**MS625**	4 mm
NKLNR2525M15	25	25	32,0	150	-2.0	-5.0	KN..150410R	**SM872**	**MS111**	2 mm	**CM66**	**MS625**	4 mm
Sol yönlü													
NKLNL2020K15	20	20	25,0	125	-2.0	-5.0	KN..150410L	**SM871**	**MS111**	2 mm	**CM66**	**MS625**	4 mm
NKLNL2525M15	25	25	32,0	150	-2.0	-5.0	KN..150410L	**SM871**	**MS111**	2 mm	**CM66**	**MS625**	4 mm

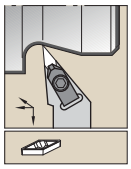


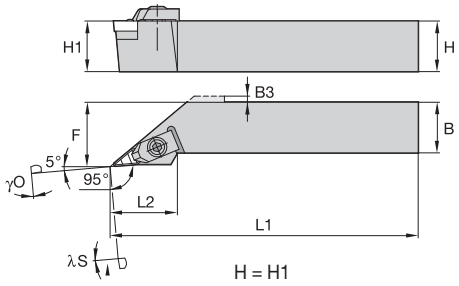


NVHB 107,5°

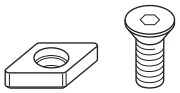



Katalog numarası	H	B	F	L1	LH	λS°	γO°	Ayar ucu	Altlık	Altlık vidası	Altıgen (mm)	Çene	Çene vidası	Altıgen (mm)
Sağ yönlü														
NVHBR2020K11	20	20	25,0	125	30,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM158**	**MS518**	2.5 mm
NVHBR2525M11	25	25	32,0	150	30,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM158**	**MS518**	2.5 mm
Sol yönlü														
NVHBL2020K11	20	20	25,0	125	30,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM159**	**MS518**	2.5 mm
NVHBL2525M11	25	25	32,0	150	30,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM159**	**MS518**	2.5 mm



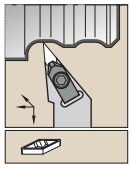


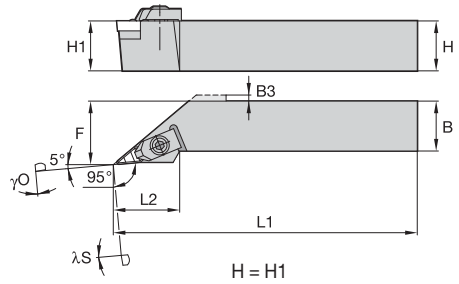
NVLB 95°



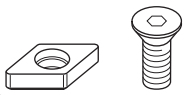



Katalog numarası	H	B	F	L1	LH	λS°	γO°	Ayar ucu	Altlık	Altlık vidası	Altıgen (mm)	Çene	Çene vidası	Altıgen (mm)
Sağ yönlü														
NVLBR2020K11	20	20	25,0	125	30,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM158**	**MS518**	2.5 mm
NVLBR2525M11	25	25	32,0	150	32,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM158**	**MS518**	2.5 mm
Sol yönlü														
NVLBL2020K11	20	20	25,0	125	30,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM159**	**MS518**	2.5 mm
NVLBL2525M11	25	25	32,0	150	32,0	0.0	0.0	VB..110304	**SM813**	**MS959**	2.5 mm	**CM159**	**MS518**	2.5 mm



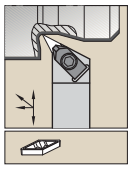


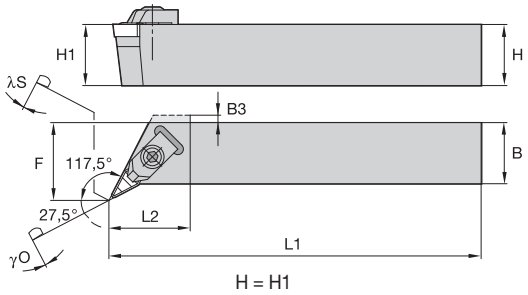
NVLC 95°






Katalog numarası	H	B	F	L1	LH	B3	λS°	γO°	Ayar ucu	Altlık	Altlık vidası	Altıgen (mm)	Çene	Çene vidası	Altıgen (mm)
Sağ yönlü															
NVLCR1616H16	16	16	20,0	100	37,0	5,0	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
NVLCR2020K16	20	20	25,0	125	37,0	–	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
NVLCR2525M16	25	25	32,0	150	37,0	–	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
NVLCR3225P16	32	25	32,0	170	37,0	–	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
Sol yönlü															
NVLCL2020K16	20	20	25,0	125	37,0	–	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm
NVLCL2525M16	25	25	32,0	150	37,0	–	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm
NVLCL3225P16	32	25	32,0	170	37,0	–	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm

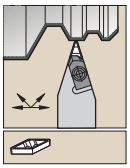


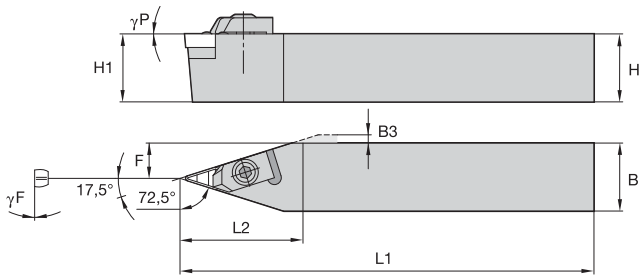


NVOC 117,5°

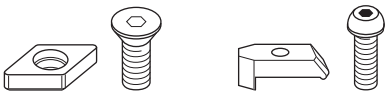


Katalog numarası	H	B	F	L1	LH	B3	λS°	γO°	Ayar ucu	Altlık	Altlık vidası	Altıgen (mm)	Çene	Çene vidası	Altı-gen (mm)
Sağ yönlü															
NVOCR2020K16	20	20	32,0	125	29,0	3,0	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
NVOCR2525M16	25	25	32,0	150	29,0	3,0	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
Sol yönlü															
NVOCL2020K16	20	20	32,0	125	29,0	3,0	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm
NVOCL2525M16	25	25	32,0	150	29,0	3,0	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm

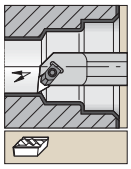




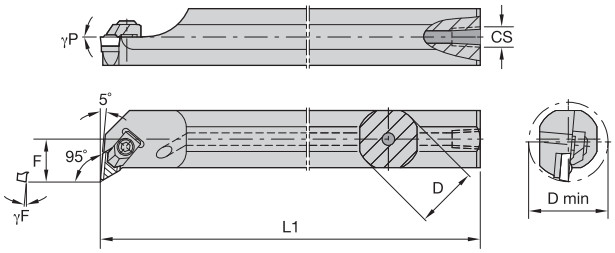
NVVC 72,5°



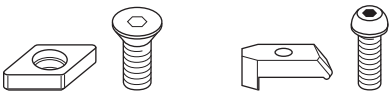
Katalog numarası	H	B	F	L1	LH	B3	γF°	γP°	Ayar ucu	Altlık	Altlık vidası	Altıgen (mm)	Çene	Çene vidası	Altıgen (mm)
NVVCN2020K16	20	20	10,0	125	42,0	2,0	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
NVVCN2525M16	25	25	12,5	150	42,0	—	0.0	0.0	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm



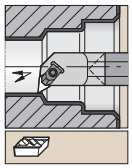
İçten soğutmalı çelik şaft.



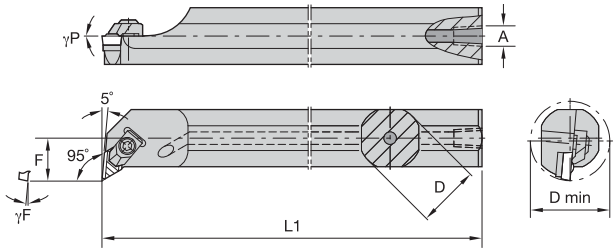
A-NKLC 95°



Katalog numarası	D	D min	F	L1	CS	γF°	γP°	Ayar ucu	shim	shim screw	Altıgen	Çene	Çene vidası	Altıgen
Sağ yönlü														
A12MNKLCR11	12	16,0	9,0	150	1/16-27 NPT	-5.0°	0.0°	KC..110305R	—	—	2.5 mm	**CM106**	**MS518**	2.5 mm
A16MNKLCR11	16	20,0	11,0	150	1/8-27 NPT	-7.0°	0.0°	KC..110305L	**SM886**	**MS959**	2.5 mm	**CM106**	**MS518**	2.5 mm
A20QNKLCR11	20	25,0	13,0	180	1/8-27 NPT	-5.0°	0.0°	KC..110305L	**SM886**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
A25RNKLCR11	25	32,0	16,0	200	1/4-18 NPT	-5.0°	0.0°	KC..110305L	**SM886**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
A32SNKLCR11	32	40,0	22,0	250	1/4-18 NPT	-5.0°	0.0°	KC..110305L	**SM886**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
Sol yönlü														
A12MNKLCL11	16	20,0	11,0	150	1/8-27 NPT	-7.0°	0.0°	KC..110305L	—	—	2.5 mm	**CM106**	**MS518**	2.5 mm
A16MNKLCL11	16	20,0	11,0	150	1/8-27 NPT	-7.0°	0.0°	KC..110305R	**SM885**	**MS959**	2.5 mm	**CM105**	**MS518**	2.5 mm
A20QNKLCL11	20	25,0	13,0	180	1/8-27 NPT	-5.0°	0.0°	KC..110305R	**SM885**	**MS959**	3 mm	**CM68**	**MS524**	3 mm
A25RNKLCL11	25	32,0	16,0	200	1/4-18 NPT	-5.0°	0.0°	KC..110305R	**SM885**	**MS959**	3 mm	**CM68**	**MS524**	3 mm



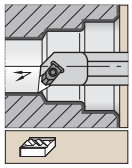
İçten soğutmalı karbür şaft.



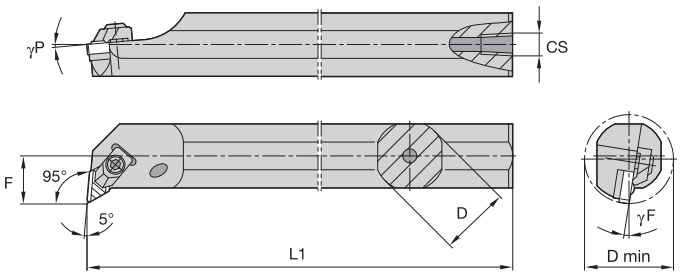
E-NKLC 95°



Katalog numarası	D	D min	F	L1	A	γF°	γP°	Ayar ucu	shim	shim screw	Altıgen	Çene	Çene vidası	Altıgen
Sağ yönlü														
E12QNKLCR11	12	16,0	9,0	180	4,8	-5.0°	0.0°	KC..110308L	–	–	2.5 mm	**CM106**	**MS518**	2.5 mm
E16RNKLCR11	16	20,0	11,0	200	5,5	-5.0°	0.0°	KC..110308L	**SM886**	**MS959**	2.5 mm	**CM106**	**MS518**	2.5 mm
Sol yönlü														
E12QNKLCL11	12	16,0	9,0	180	4,8	-5.0°	0.0°	KC..110308R	–	–	2.5 mm	**CM105**	**MS518**	2.5 mm



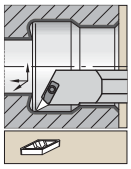
İçten soğutmalı çelik şaft.



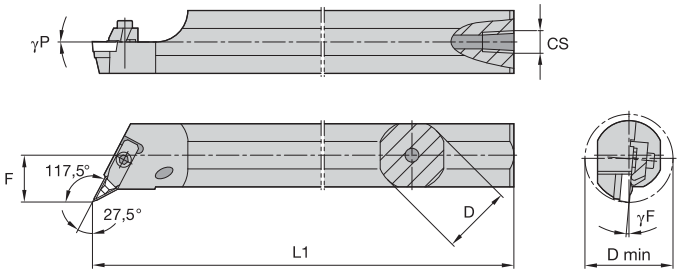
A-NKLN 95°



Katalog numarası	D	D min	F	L1	CS	γF°	γP°	Ayar ucu	shim	shim screw	Altıgen	Çene	Çene vidası	Altıgen
Sağ yönlü														
A40TNKLNR15	40	50,0	27,0	300	1/4-18 NPT	-5.0°	-5.0°	KN..150410L	**SM871**	**MS111**	4 mm	**CM66**	**MS624**	4 mm



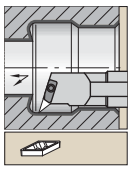
İçten soğutmalı çelik şaft.



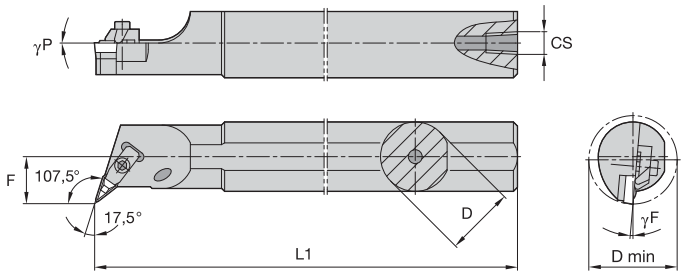
A-NVOC 117,5°



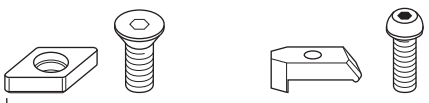
Katalog numarası	D	D min	F	L1	CS	γF°	γP°	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Çene vidası	Altıgen
Sağ yönlü														
A32SNVOCR16	32	40,0	22,0	250	1/4-18 NPT	-2.0°	0.0°	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
A50UNVOCR16	50	63,0	35,0	350	1/4-18 NPT	-2.0°	0.0°	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm
Sol yönlü														
A32SNVOCL16	32	40,0	22,0	250	1/4-18 NPT	-2.0°	0.0°	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm
A40TNVOCL16	40	50,0	27,0	300	1/4-18 NPT	-2.0°	0.0°	VC..160408	**SM812**	**MS959**	4 mm	**CM114**	**MS412**	4 mm



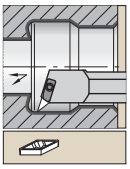
İçten soğutmalı çelik şaft.



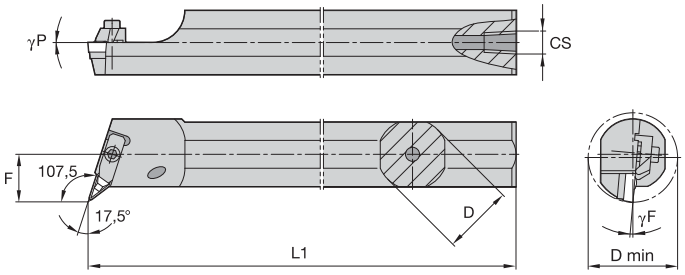
A-NVQB 107,5°



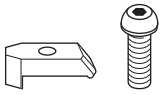
Katalog numarası	D	D min	F	L1	CS	γF°	γP°	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Çene vidası	Altıgen
Sağ yönlü														
A25TNVQBR11	25	32,0	17,0	300	1/4-18 NPT	-5.0°	0.0°	VB..110304	**SM813**	**MS959**	2.5 mm	**CM159**	**MS518**	2.5 mm



İçten soğutmalı çelik şaft.



A-NVQC 107,5°

Katalog numarası	D	D min	F	L1	CS	γF°	γP°	Ayar ucu	Altlık	Altlık vidası	Altıgen	Çene	Çene vidası	Altıgen
Sağ yönlü														
A32SNVQCR16	32	40,0	22,0	250	1/4-18 NPT	-2.0°	0.0°	VC..160408	**SM812**	**MS959**	4 mm	**CM113**	**MS412**	4 mm

Demiryolu uygulamaları

Kennametal, demiryolu değer zinciri ekonomisine sağladığı anlayışla ihtiyaçlarınıza yönelik uygun duruma getirilen eşsiz müşteri odaklı çözümlerin sunulmasına olanak sağlıyor. Sizleri, müşterimizi dikkatlice dinleyerek ve geri bildirimlerinizi temel alan yenilikler yaparak üstün değerler sunuyoruz. Amacımız hem yerel hem de küresel alanda daha rekabetçi olmanıza yardımcı olmaktır.



Verimliliğe odaklı en iyi uygulamalar

En uygun şartlarda üretim için güvenilir bir iş ortağınız olarak Kennametal, araştırma ve geliştirme mükemmeliyetine eşsiz bağlılığıyla, verimliliğinizi artırmaya yönelik son derece yenilikçi yöntemleri sürekli olarak sunar. ISO 9001 Sertifikası QS 9000 TES ve VDA 6.4 mümkün olan en yüksek kalite standartlarını garanti eder.

En iyi performans, daha az çevresel etki

Teknoloji ile her ikisini de yapabiliriz. Kennametal müşterilerin son derece karmaşık imalat sistemlerinde sürdürülemez davranışların temel nedenlerine odaklanarak yardımcı olurken aynı zamanda maliyet yapısını iyileştirme, kalite ve performans artırma olanağı sağlar. En yeni kesici takımları ve teknolojiyi sunmanın yanı sıra, ileri mühendislik ekibimiz mevcut üretim süreçlerinizi analiz ederek genel performansınızı iyileştirmeye yönelik yeni yöntemler belirlemenize yardım olacaktır.

Tekerlek torna tezgahı için takımlama

Kennametal, demiryolu takımlama kapsamında her tip tekerlek torna tezgahlarında ve her çeşit yuvarlanma dairesi yüzeylerine sahip işlenen tekerleklerde yıllar boyunca yapılan denemelerle geliştirilen eşsiz bir kilitleme ünitesi tasarımına sahiptir.

Bu zor işleme özellikli güçlendirilmiş tasarımın, tekerlek ve aks atölyelerinde karşılaşılan en zorlu işleme sürecine yuvarlanma dairesi yüzeylerinin tornalama uygulamalarında işleme maliyetlerini azaltmada etkin olduğu kanıtlanmıştır.

Yükseltilmiş talaş kırıcı zırha sahip güçlü kesici uçlar ve honlanmış kesme kenarları, daha etkin talaş kontrolü ve daha güçlü bir kesme kenarı sağlar. Bu takım geometrisi, Kennametal kalite seçimi ile birleşiminde daha yüksek tekerlek tornalama verimliliği sağlar.



Tekerlek takımı

Tekerlek torna tezgahında kullanılan Kennametal takımlarının sağladığı avantajlar:

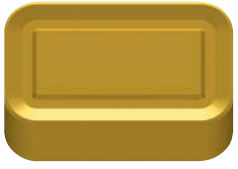
- Aşınacak ya da talaş akışını engelleyecek üst bağlantı yoktur.
- Ağır kesme yükleri altında kesici ucun hareket etmesini önlemek için takım tutucunun her iki duvarında kesici uç kilitleri bulunur.
- Sertleştirilmiş çelik kilitleme ünitesi pozitif kesici ucun oturmasını ve tutucunun korunmasını sağlar.
- Hızlı, sorunsuz kesici uç değiştime; Kesici ucu çıkarmak için tek bir vidayı açmanız yeterlidir.
- Çelik kilitleme ünitesini hızlı sökme ve kesici uç temizleme veya değiştirme olanağı.
- Zor işleme özellikli çelik kilitleme ünite tasarımı daha uzun takım ömür sağlar ve işletim maliyetlerinin azalmasına yardımcı olur.
- Stokta daha az donanım parçası bulundurma.
- Islah edilmiş alaşım çeliğinden üretilmiş takım tutucular ve çelik kilitleme üniteleri, işlenirken sertleştirilen tekerleklerde son derece ağır kaba kesmelere dayanacak desteği sağlar.


LNUX-RRF Tam radyüs


LNUX-RRP Tam radyüs

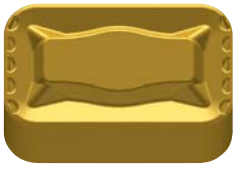

LNUX-RRH


LNUX-RRP


KRR6586-71


KRR6586-75


LNUX-RRSM


KRR6586-65


KRR6586-52

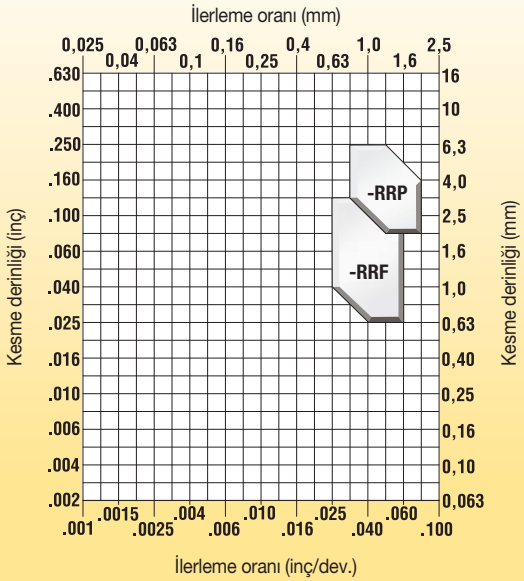

KRR6586-50

LNUX

Tam radyüslu tasarım

Başarılı talaş kırma geometrimiz RRF ve RRP

- Tek bir kesici uç, profil işleme ve alın tornalama olarak her iki uygulamayı gerçekleştirebilir.
- Daha küçük kesme derinliğinde bile talaş kontrolünü iyileştirme olanağı!




-RRP

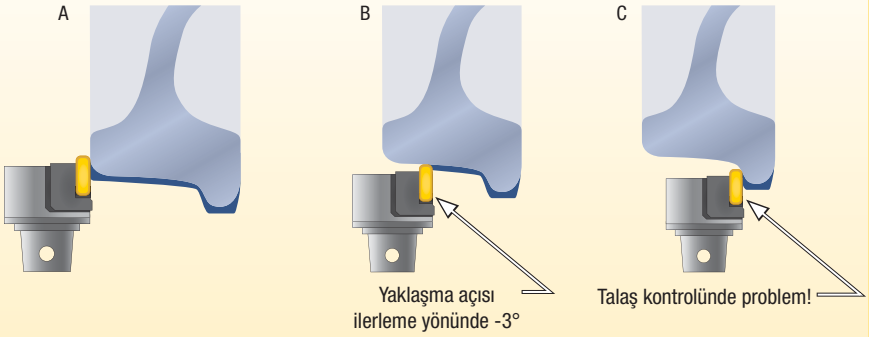

-RRF

Uygulama önerisi

A: Daha büyük çapak çıkarılması gerektiğinden iş süreci başlangıcında kesme derinliği daha fazladır.

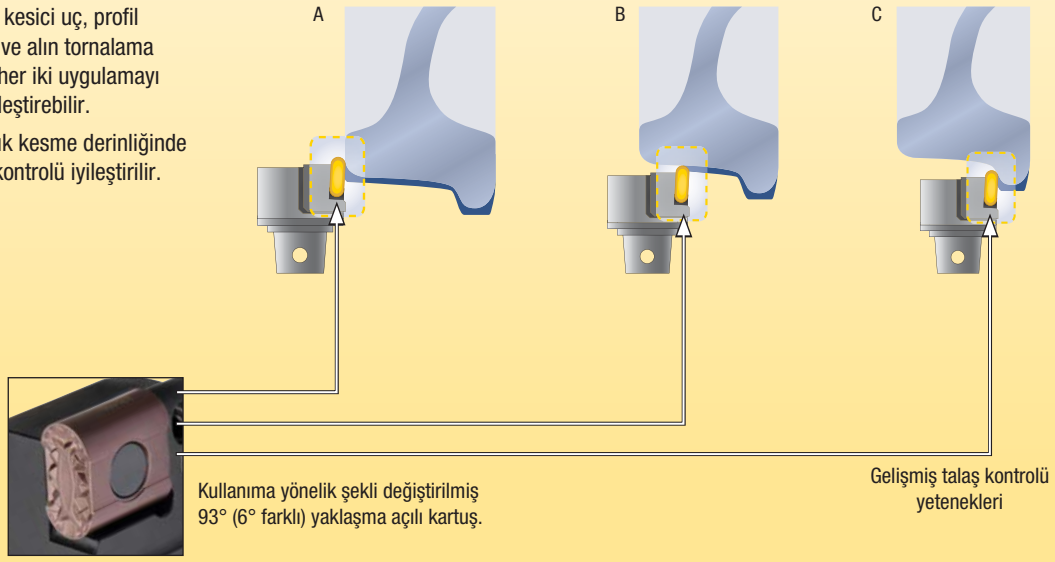
B: Kesme derinliği daha küçüktür ve bazen “etkin sorunlu bölgeler” ya da durma noktaları vardır.

C: Talaş kalınlığı oldukça ince ve yönetilmesi güç olduğundan talaş kontrolü açısından en kritik bölge.

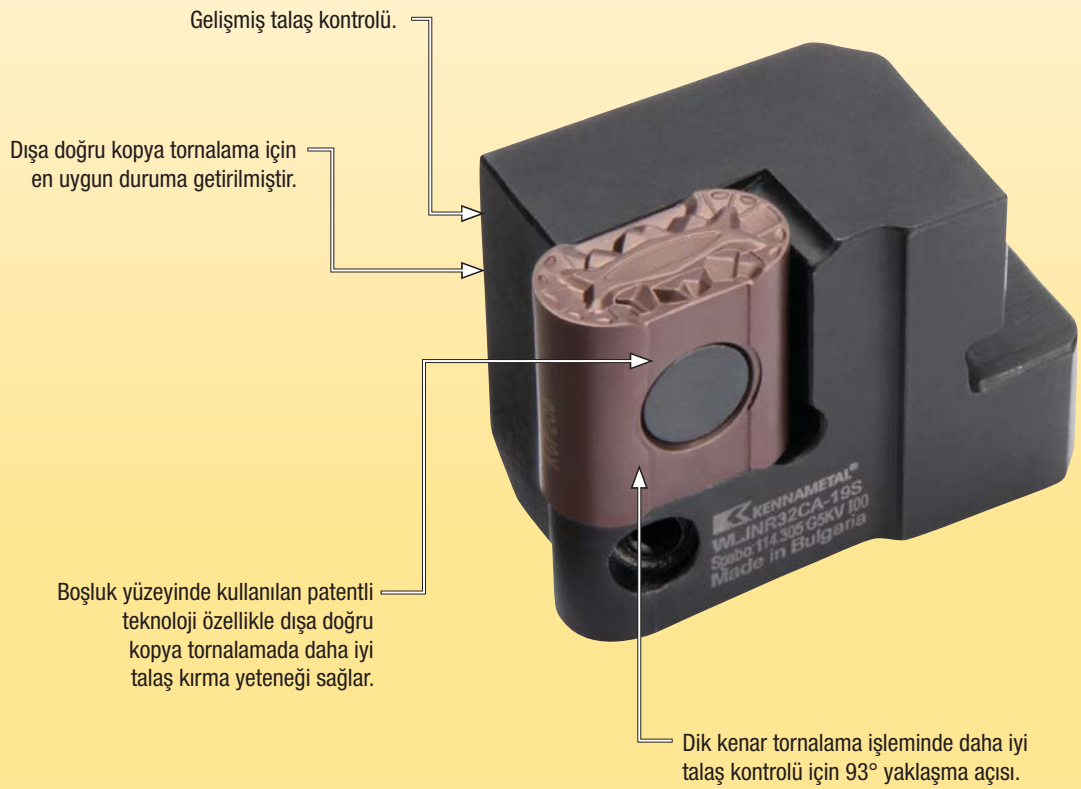


A, B, ve C: Tek bir kesici uç, profil işleme ve alın tornalama olarak her iki uygulamayı gerçekleştirebilir.

A ve C: Daha küçük kesme derinliğinde bile talaş kontrolü iyileştirilir.



Özellikler ve Faydalar

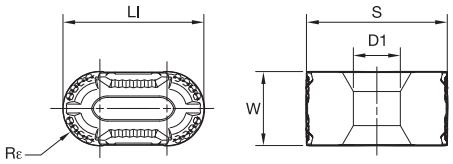


- Tam radyüs tasarımlı, yüksek performanslı RRF ve RRP talaş kırıcı geometrisi, daha küçük kesme derinliklerinde bile iyi bir talaş kontrolü sağlar.

● İlk tercih
○ Alternatif tercih

P		●	●
M			
K			
N			
S			
H			





LNUX-RRF Tam radyüs

ISO Katalog numarası	W	LI	S	Rε	D1	KCP10B	KCP25B
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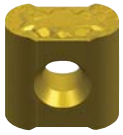
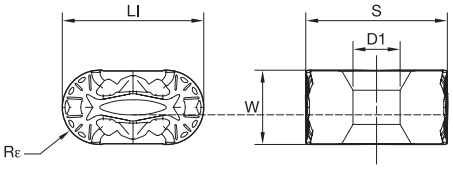
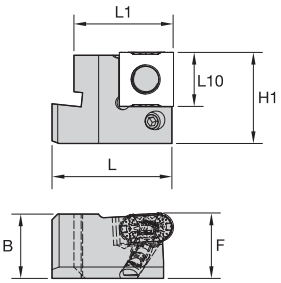
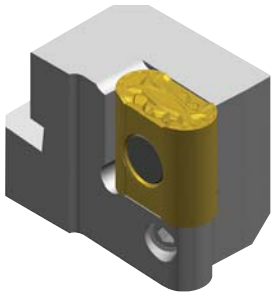




LNUX-RRP Tam radyüs

ISO Katalog numarası	W	LI	S	Rε	D1	KCP10B	KCP25B
LNUX191950RRP	10,00	19,05	19,05	5,00	6,35	●	●
LNUX301960RRP	12,00	30,00	19,05	6,00	6,35	●	●



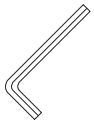


Kartuş WLJN

Sipariş numarası	Katalog numarası	H1	B	F	L10	L1	L	Ayar ucu
6049016	**WLJNL32CA19S**	1.260	.890	.906	.750	1.38	1.681	LNUX191950RRP
6049018	**WLJNL32CA30S**	1.260	.890	.925	1.181	1.38	1.772	LNUX301960RRP
6049015	**WLJNR32CA19S**	1.260	.890	.906	.750	1.38	1.681	LNUX191950RRP
6049017	**WLJNR32CA30S**	1.260	.890	.925	1.181	1.38	1.772	LNUX301960RRP

Yedek parçalar

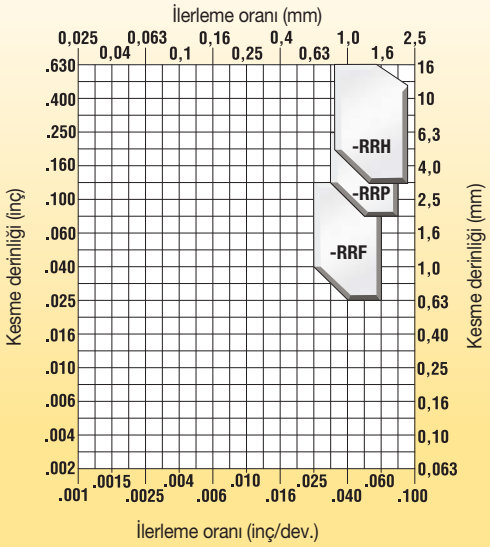




Katalog numarası	Sıkma pimi	Sıkma vidası	Altıgen anahtar
WLJNL32CA19S	**114.305**	**121.616**	**170.003**
WLJNL32CA30S	**114.305**	**121.616**	**170.003**
WLJNR32CA19S	**114.305**	**121.616**	**170.003**
WLJNR32CA30S	**114.305**	**121.616**	**170.003**

Yeni talaş kırma geometrisi

Demiryolu tekerleği işleme için — RRF

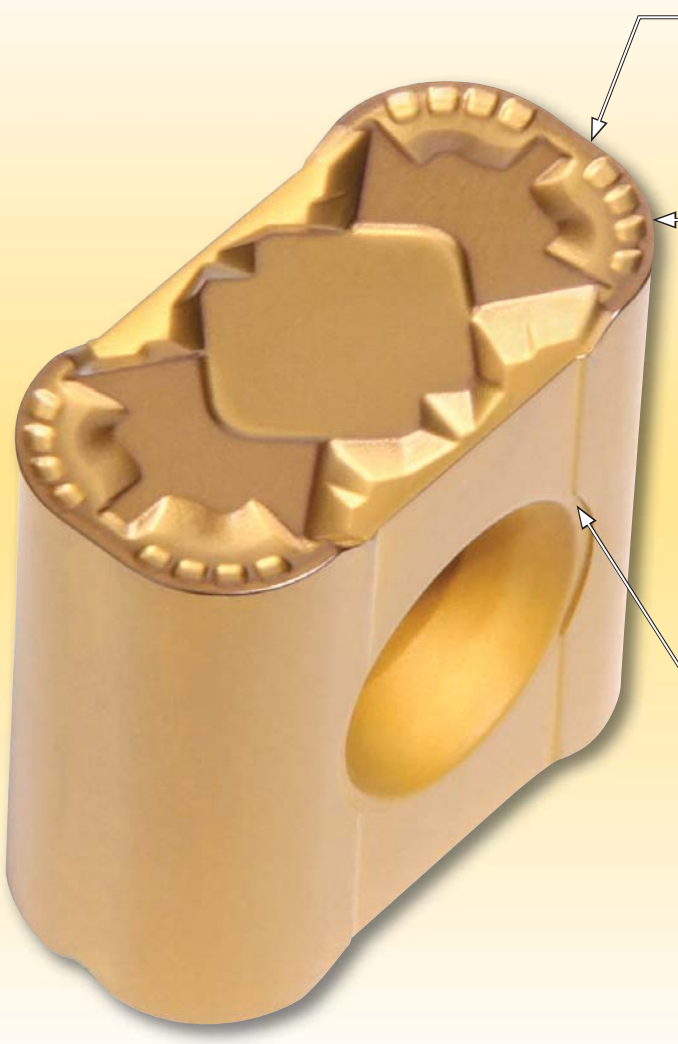



-RRH


-RRP


-RRF

Kısa kesme derinliğinde yeniden profil işleme

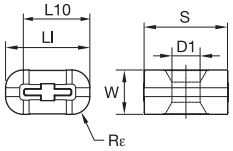


Kennametal, tekerlek ve aksları işleme için kullanılan standart kesici uç çeşitlerinin tamamını stokta bulundurur. Çeşitli tiplerde, ölçülerde ve kalitelerde kesici uçlar mevcuttur.

- **Tekerlek deliği işleme**; Yuvarlak, kare, sekizgen temel şekilli kalıplanmış talaş kırıcı uçlar ve tekrar taşlanabilen kesici uçlar.
- **Aşınan aks yüzeylerini yeniden tornalama**; Üçgen, ve eşkenar dörtgen şekilli talaş kırıcı uçlar.
- **Aşınan tekerlek yüzeylerini yeniden tornalama**; Kalıplanmış, talaş kırıcılı veya talaş kırıcısız dikdörtgen ve kare şekilli kesici uçlar.
- **Aşınan tekerlek yüzeylerini yeniden tornalama**; Kilitleme için merkez delikli yuvarlak uçlu.

● İlk tercih
○ Alternatif tercih





LNUX-RRF

ISO Katalog numarası	W	LI	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
LNUX191940RRF	10,00	19,00	19,00	19,05	4,00	6,35	–	●	–	●
LNUX301940RRF	12,00	30,00	30,00	19,05	4,00	6,35	–	●	–	–

NOT: KC9105™ olarak da mevcuttur.

LNUX-RRH

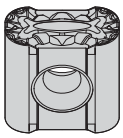
ISO Katalog numarası	W	LI	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
LNUX191940RRH	10,00	19,00	19,00	19,05	4,00	6,35	–	●	–	●
LNUX301940RRH	12,00	30,00	30,00	19,05	4,00	6,35	●	–	–	●

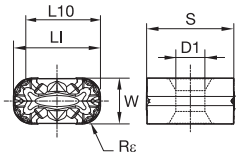
NOT: KC9105 olarak da mevcuttur.

Kennametal, tekerlek ve aksları işleme için kullanılan standart kesici uç çeşitlerinin tamamını stokta bulundurur. Çeşitli tiplerde, ölçülerde ve kalitelerde kesici uçlar mevcuttur.

- **Aşınan aks yüzeylerini yeniden tornalama;** Yuvarlak, kare, sekizgen temel şekilli kalıplanmış talaş kırıcı uçlar ve tekrar taşlanabilen kesici uçlar.
- **Aşınan aks yüzeylerini yeniden tornalama;** Üçgen, ve eşkenar dörtgen şekilli talaş kırıcı uçlar.
- **Aşınan tekerlek yüzeylerini yeniden tornalama;** Kalıplanmış, talaş kırıcılı veya talaş kırıcısız dikdörtgen ve kare şekilli kesici uçlar.
- **Aşınan tekerlek yüzeylerini yeniden tornalama;** Kilitleme için merkez delikli yuvarlak uçlu.

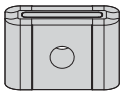
● İlk tercih
○ Alternatif tercih

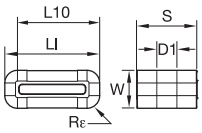




LNUX-RRP

ISO Katalog numarası	W	LI	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
LNUX191940RRP	10,00	19,00	19,00	19,05	4,00	6,35	–	●	–	●
LNUX301940RRP	12,00	30,00	30,00	19,05	4,00	6,35	–	–	–	●





LNUX-RRSM

ISO Katalog numarası	W	LI	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
LNUX191940RRSM	10,00	19,00	19,00	19,05	4,00	6,35	–	–	●	–
LNUX301940RRSM	12,00	30,00	30,00	19,05	4,00	6,35	●	–	–	–

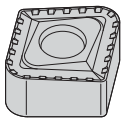
NOT: KC9105™ olarak da mevcuttur.

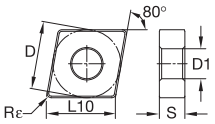
Kennametal, tekerlek ve aksları işleme için kullanılan standart kesici uç çeşitlerinin tamamını stokta bulundurur. Çeşitli tiplerde, ölçülerde ve kalitelerde kesici uçlar mevcuttur.

- **Aşınan aks yüzeylerini yeniden tornalama;** Yuvarlak, kare, sekizgen temel şekilli kalıplanmış talaş kırıcı uçlar ve tekrar taşlanabilen kesici uçlar.
- **Aşınan aks yüzeylerini yeniden tornalama;** Üçgen, ve eşkenar dörtgen şekilli talaş kırıcı uçlar.
- **Aşınan tekerlek yüzeylerini yeniden tornalama;** Kalıplanmış, talaş kırıcılı veya talaş kırıcısız dikdörtgen ve kare şekilli kesici uçlar.
- **Aşınan tekerlek yüzeylerini yeniden tornalama;** Kilitleme için merkez delikli yuvarlak uçlu.

● İlk tercih
○ Alternatif tercih

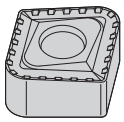
		KCP10B	KCP10	KCP25B	KCP25
P		●	●	●	●
M					
K			●	●	●
N					
S					
H					

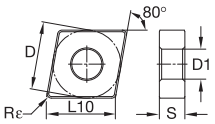




CNMM-RRP

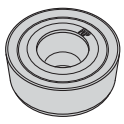
ISO Katalog numarası	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
CNMM190740RRP	19,34	7,94	4,00	7,93	●	–	–	–

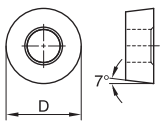




LNUX-WT5

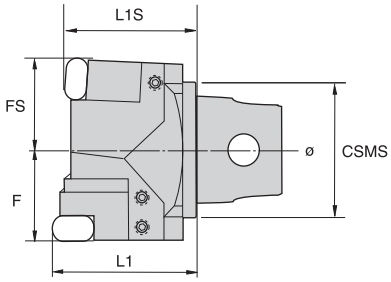
ISO Katalog numarası	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
LNUX191940S-WT5	19,05	19,05	4,00	6,35	–	–	●	–
SNMX190640S-WT5	19,05	6,35	4,00	6,35	–	–	●	–





RCMX

ISO Katalog numarası	L10	S	Rε	D1	KCP10B	KCP10	KCP25B	KCP25
RCMX2507M076	–	7,94	–	7,40	–	–	●	–





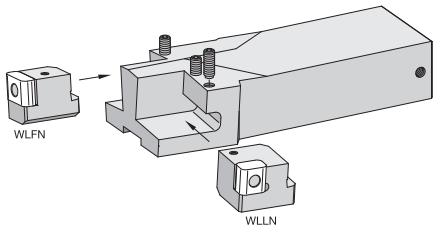
TK

Sipariş numarası	Katalog numarası	CSMS Sistem ölçüsü	F	FS	L1	L1S
1781755	**TK01338D**	KM63	42,50	42,50	66,00	60,00
1781756	**TK01339D**	KM63	42,50	42,50	66,00	60,00

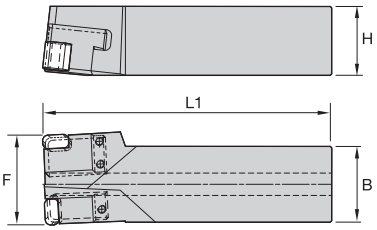
Uygulama özellikli

Montaj talimatları

Ana/KM şaft	Kartuş WLLN..	Kartuş WLFN..
Sağ yönlü	Sağ yönlü	Sol yönlü
Sol yönlü	Sol yönlü	Sağ yönlü

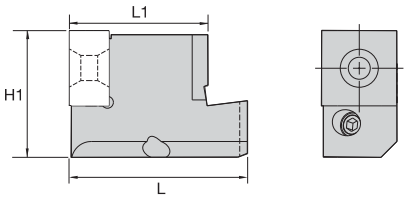


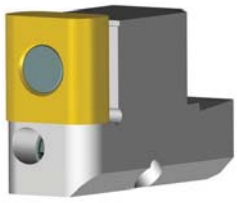
Tam takım montajı

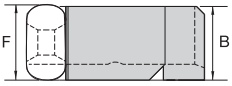


Ana şaft WXXN

Sipariş numarası	Katalog numarası	H		B		F assembly		L1 assy		Sıkma vidası
		mm	inç	mm	inç	mm	inç	mm	inç	
1251261	**WXXNL4455X-FL**	50,00	1.969	55,00	2.165	65,00	2.559	210,00	8.268	**PT00163**
1251262	**WXXNR4455X-FL**	50,00	1.969	55,00	2.165	65,00	2.559	210,00	8.268	**PT00163**







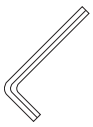
Kartuş WLFN

Sipariş numarası	Katalog numarası	H1	B	F	L1	L	uç 1
2435188	WLFNL32CA19S	32,00	18,60	19,00	35,00	42,70	LNUX191940...
2435187	WLFNR32CA19S	32,00	18,60	19,00	35,00	42,70	LNUX191940...

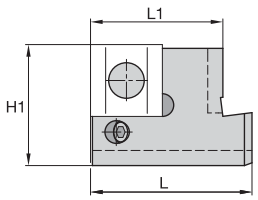
Yedek parçalar

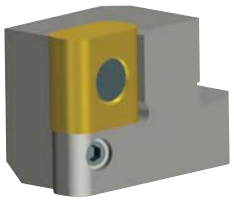


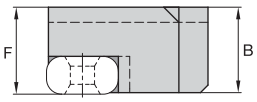




Katalog numarası	Sıkma pimi	Sıkma vidası	Altıgen anahtar
WLFNL32CA19S	114.305	121.616	170.003
WLFNR32CA19S	114.305	121.616	170.003







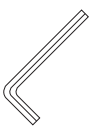
Kartuş WLLN

Sipariş numarası	Katalog numarası	H1	B	F	L1	L	uç 1
2435184	WLLNL32CA19S	32,00	22,60	23,00	35,00	42,70	LNUX191940...
2435186	WLLNL32CA30S	32,00	22,60	23,00	35,00	42,70	LNUX301940...
2435183	WLLNR32CA19S	32,00	22,60	23,00	35,00	42,70	LNUX191940...
2435185	WLLNR32CA30S	32,00	22,60	23,00	35,00	42,70	LNUX301940...

Yedek parçalar







Katalog numarası	Sıkma pimi	Sıkma vidası	Altıgen anahtar
WLLNL32CA19S	114.305	121.616	170.003
WLLNL32CA30S	114.305	121.616	170.003
WLLNR32CA19S	114.305	121.616	170.003
WLLNR32CA30S	114.305	121.616	170.003

Beyond™ RU ve UP geometrileri ile aşınan tekerlek yüzeyini ve tekerlek takımlarını tornalama

Kennametal takımlama maksimum talaş kaldırma ve daha yüksek verimlilik için en son işleme teknolojisini kapsar. Standart, genel satış için üretilmiş hazır kesici uçlar ve daha az sayıda donanım parçasını stokta bulundurma ve işleme maliyetlerini azaltır. Bu takımlar monte edilmiş tekerlek takımlarını yenileme, tekerlekte delik işleme, aşınan tekerlek yüzeyini tornalama, aks tornalama ve şaft yatağını düzeltmek için uygundur.



Özellikler ve Faydalar

Tekerlek torna tezgahı için Kennametal takımlarının avantajları:

- Yüksek performanslı ve tok özellikli çelik kilitleme ünitesi.
- Aşınacak ya da talaş akışını engelleyecek üst bağlantı yoktur.
- Sertleştirilmiş çelik kilitleme kesici uç hareketini engeller.
- Çelik kilitleme ünitesini hızlı sökme.
- Hızlı, sorunsuz kesici uç değiştirme.
- İşlerken sertleştirilmiş tekerleklerde son derece kaba işlemeli kesmeye dayanacak desteği sağlar.

Bu zorlu koşullarda kapsamında da işleme süreçlerini ve bakım onarım maliyetlerini azaltan mükemmel sonuçlar elde edilir.

- Kaygan düz alanlar ve fren yüzeyleri.
- Arıza sonucu oluşan hamlaç yanıkları.
- Dönen tekerleklerin aşırı derecede ısınması.
- Anlık fren baskısında aşırı derecede artan ısıdan kaynaklanan mantar şeklinde ters bükümlü oluşumlar.
- Birbirleriyle uyumsuz olan tekerlerin flanş tarafında neden olduğu aşırı aşınma.





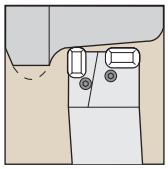
RU–Genel kullanım amaçlı kaba işleme

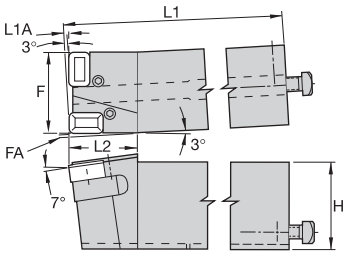




UP–Genel kullanım amaçlı, pozitif

- Tekerlek yüzeyi aşınmasını algılama özellikli tümleşik konumda ölçüm cihazına sahip tam otomatik, ağır işleme özellikli tekerlek torna tezgahı.
- Sütünlu tip tezgah yatağı dönerek işleme olanağı sağlar.
- Lokomotif, taşıma, yolcu ve yük vagonu tekerlek donanımlarının işlenmesi için uygundur.



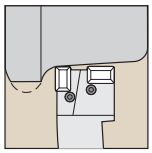


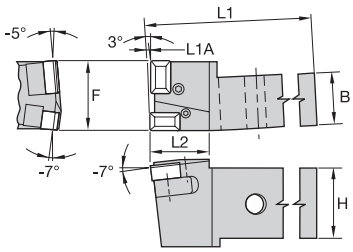
Aşınan yuvarlanma yüzey profilini tornalama

Sipariş numarası	Katalog numarası	H	F	L1	L2	FA	L1A	uç 1
1015754	**HUWTCL**	80,00	76,20	275,00	63,50	3,00	3,00	KRR6586__
1015723	**HUWTCR**	80,00	76,20	275,00	63,50	3,00	3,00	KRR6586__

NOT: İki kesici uç gerekir.

- Maksimum işletme maliyetleriyle maksimum verimlilik.
- Takım bloğuna bağlı takımda hızlı kesici uç konumlandırma.
- Birbirinden ayrı çelik kilitleme üniteleri değiştirme ve konumlandırmayı kolaylaştırır ve her bir kesici ucu kilitler.
- Takımda mastar konumu, kesici uç üzerinde, +/- 0,08mm' de tutulur.
- Aşınacak ya da talaş akışını engelleyecek üst çene bağlantısı yoktur.
- Birbiriyle değiştirilebilir çelik kilitleme ünitesi takım tutucunun hasar görmesini engeller.
- Talaş kontrol özellikli geliştirilmiş kesici uçlar.



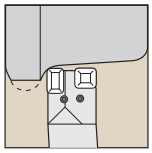


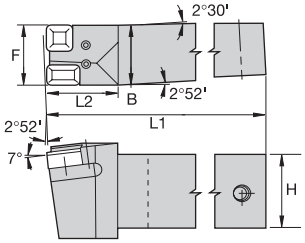
Tekerlek yuvarlanma yüzeyini düzleştirme

Sipariş numarası	Katalog numarası	H	B	F	L1	L2	L1A	uç 1
1015688	**FUWTCL**	76,20	57,15	76,20	254,00	66,55	3,05	KRR6586__
1015687	**FUWTCR**	76,20	57,15	76,20	254,00	66,55	3,05	KRR6586__

NOT: İki kesici uç gerekir.

- Maksimum işletme maliyetleriyle maksimum verimlilik.
- Takım bloğuna bağlanmış takımda hızlı kesici uç değiştirme ve konumlandırma.
- Birbirinden ayrı çelik kilitleme üniteleri değiştirme ve konumlandırmayı kolaylaştırır ve her bir kesici ucu kilitler.
- Daha düşük stoklama için en az sayıda parça.
- Aşınacak ya da talaş akışını engelleyecek üst çene bağlantısı yoktur.
- Birbiriyle değiştirilebilir çelik kilitleme ünitesi takım tutucunun hasar görmesini engeller.
- Ön şekillendirmeli talaş kırıcılara sahip değiştirilebilir kesici uçlar en uygun şartlarda ilerlemelerde ve hızlarda talaş kontrolü sağlar.

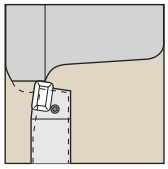


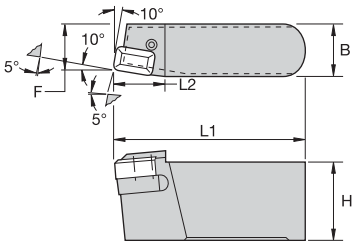


Tekerlek yuvarlanma yüzeyini düzleştirme

Sipariş numarası	Katalog numarası	H	B	F	L1	L2	uç 1
1015659	**SUWTCL**	76,20	57,15	57,15	254,00	66,55	KRR6586__
1015658	**SUWTCR**	76,20	57,15	57,15	254,00	66,55	KRR6586__

NOT: İki kesici uç gerekir.

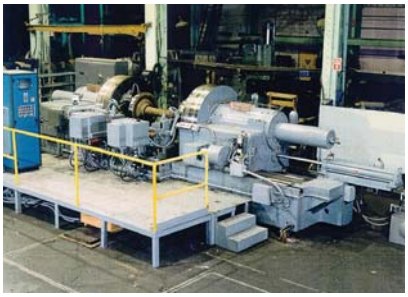




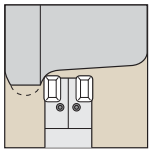
Tekerlek flanş yüzeyini düzeltme

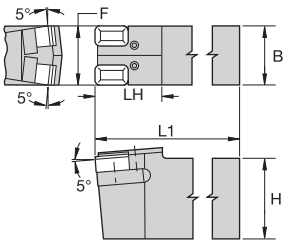
Sipariş numarası	Katalog numarası	H	B	F	L1	L2	uç 1
1015690	**NUFRL**	63,50	41,28	36,53	152,40	39,62	KRR6586__
1015689	**NUFRR**	63,50	41,28	36,53	152,40	39,62	KRR6586__

- Maksimum işletme maliyetleriyle maksimum verimlilik.
- Takım bloğuna bağlanmış takımda hızlı kesici uç değiştirme ve konumlandırma.
- Birbirinden ayrı çelik kilitleme üniteleri değiştirme ve konumlandırmayı kolaylaştırır ve her bir kesici ucu kilitler.
- Takımda mastar konumu, kesici uç üzerinde, +/- 0,08mm' de tutulur.
- Aşınacak ya da talaş akışını engelleyecek üst çene bağlantısı yoktur.
- Birbiriyle değiştirilebilir çelik kilitleme ünitesi takım tutucunun hasar görmesini engeller.
- Ön şekillendirmeli talaş kırıcılara sahip değiştirilebilir kesici uçlar en uygun şartlarda ilerlemelerde ve hızlarda talaş kontrolü sağlar.



Simmons-Niles Tekerlek torna tezgahı



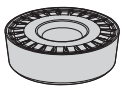


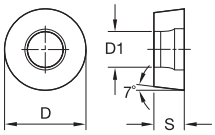
Tekerlek yuvarlanma yüzeyini düzleştirme

Sipariş numarası	Katalog numarası	H	B	F	L1	LH	uç 1	Çelik kilitleme birimi	Bağlama vidası
1015684	**NUWTC**	76,20	57,15	57,15	412,75	95,25	KRR6586__	**SU3**	**S1006PKG**

NOT: İki kesici uç gerekir.

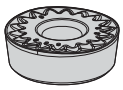
● İlk tercih
○ Alternatif tercih

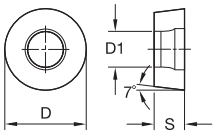




RCMH-UPG

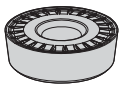
ISO Katalog numarası	D	D1	S	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
P					○	●	●	●	●	●	○
M											●
K				●	●	○	○	○	○		○
N											○
S											●
H											○
RCMH2507M0TUPG	25	7,55	7,94	–	–	–	●	–	●	–	–
RCMH3209M0TUPG	32	10,35	9,52	–	–	–	●	–	●	–	–

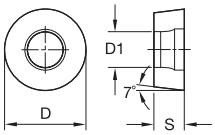




RCMH-RU

ISO Katalog numarası	D	D1	S	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMH2507M0RU	25	7,55	7,94	–	–	–	–	●	–	–	–
RCMH3209M0RU	32	10,35	9,53	–	–	–	–	●	–	–	–

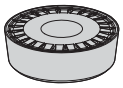


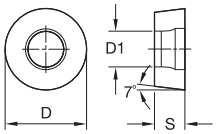


RCMT-UPG

ISO Katalog numarası	D	D1	S	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMT1606M0UPG	16	5,50	6,35	●	–	–	●	–	●	●	–
RCMT2006M0UPG	20	6,50	6,35	●	–	–	●	–	●	●	–

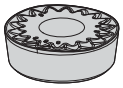
● İlk tercih
○ Alternatif tercih

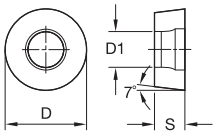




RCMX-UPG

ISO Katalog numarası	D	D1	S	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
P					○	●	●	●	●	●	○
M											●
K				●	●	○	○	○	○		○
N											○
S											●
H											○
RCMX2507M0TUPG	25	7,19	7,94	–	–	–	●	–	●	–	–
RCMX3209M0TUPG	32	9,78	9,52	–	–	–	●	–	●	–	–





RCMX-RU

ISO Katalog numarası	D	D1	S	KCK15B	KCK20	KCP10	KCP10B	KCP25	KCP25B	KCPK05	KCU10
RCMX2507M0RU	25	7,19	7,94	–	●	–	–	–	–	–	–
RCMX3209M0RU	32	9,78	9,53	–	●	●	–	–	–	–	–

K-Lock™ Kesici uçlar

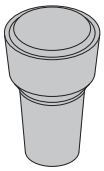


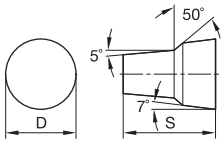
Özellikler ve Faydalar

- K-Lock Kesici uçlar derin kanal açma ve profil işleme için idealdir.
- Benzersiz kesici uç bağlama sistemi engelsiz talaş akışına olanak sağlar.
- Hassas kalıplanmış ve çevresel taşlanmış olarak mevcuttur.

● İlk tercih
○ Alternatif tercih

		K68	KCU10	KCU25	KC5010	KC5025	KC5410
P			○	○	○	○	
M			●	●	●	●	
K		○					
N		●	○				●
S		●	●	●	●	●	
H							

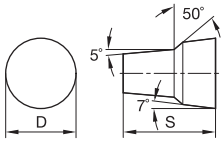




RCGK-FS

ISO Katalog numarası	D	S	K68	KCU10	KCU25	KC5010	KC5025	KC5410
RCGK040300FS	4,76	6,38	–	●	–	–	–	–
RCGK060400FS	6,35	9,09	–	●	–	●	–	–
RCGK090700FS	9,53	13,23	–	●	–	●	●	–
RCGK120800FS	12,70	16,61	–	●	–	–	–	–

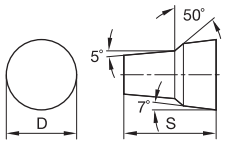




RCGK-HP

ISO Katalog numarası	D	S	K68	KCU10	KCU25	KC5010	KC5025	KC5410
RCGK040300HP	4,76	6,38	–	●	–	●	–	–
RCGK060400HP	6,35	9,09	–	●	–	●	–	●
RCGK090700HP	9,53	13,23	–	●	–	–	–	●
RCGK120800HP	12,70	16,61	–	●	–	–	–	●





RCMK

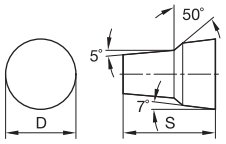
ISO Katalog numarası	D	S	K68	KCU10	KCU25	KC5010	KC5025	KC5410
RCMK040300	4,76	6,38	–	–	–	●	–	–
RCMK060400	6,35	9,09	–	●	–	●	–	–
RCMK090700	9,53	13,23	–	–	–	●	–	–
RCMK120800	12,70	16,61	–	–	–	●	–	–

- Zor işlenen malzemelerde talaş kontrolü için pozitif talaş yüzeyli orta geometri.

● İlk tercih
○ Alternatif tercih

P								
M			●	●	●	●		
K								
N							●	
S		●	●	●	●	●		●
H								

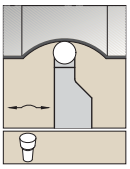


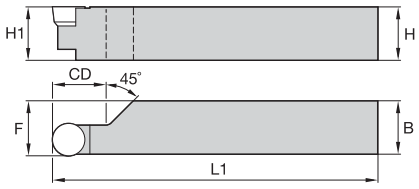


RCMK-MP

ISO Katalog numarası	D	L10	Rε	K68	KCU10	KCU25	KC5010	KC5025	KC5410	KCS10
RCMK060400MP	6,35	–	–	–	–	–	–	–	–	●
RCMK090700MP	9,53	–	–	–	–	–	–	–	–	●
RCMK120800MP	12,70	–	–	–	–	–	–	–	–	●

Uygulama özellikli

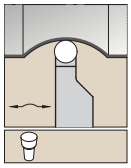


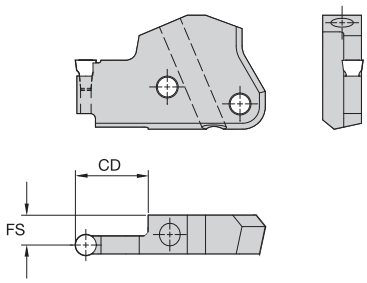


H = H1

TRAO

Katalog numarası	H1	B	F	L1	CD	Ayar ucu
Sağ yönlü						
TRAOR2525M04	25	25	25,4	150	20	RC..040300
TRAOR2525M06	25	25	25,5	150	20	RC..060400
TRAOR3225P06	32	25	25,5	170	20	RC..060400
Sol yönlü						
TRAOL2525M06	25	25	25,5	150	20	RC..060400





TRM

Katalog numarası	CD	FS	Kartuş ölçüsü	Ayar ucu
Sağ yönlü				
TRM50R0432M	32	9,62	50	RCMK152
TRM50R0620M	19	8,98	50	RCMK23
TRM50R0632M	32	8,98	50	RCMK-23
TRM50R0640M	38	8,98	50	RCGK23
TRM50R0720M	19	8,42	50	RCMK-2.55
TRM50R0920M	19	7,64	50	RC_K35
TRM50R0932M	32	7,65	50	RCMK-35
TRM50R0940M	38	7,64	50	RC_K35
TRM50R0950M	50	7,65	50	RCMK-35
Sol yönlü				
TRM50L0432M	32	9,62	50	RCMK152
TRM50L0620M	19	8,98	50	RCMK23
TRM50L0632M	32	8,98	50	RCMK-23
TRM50L0640M	38	8,98	50	RCGK23
TRM50L0920M	19	7,64	50	RC_K35
TRM50L0932M	32	7,65	50	RCMK-35
TRM50L0950M	50	7,65	50	RCMK-35

Sipariş No.	Katalog No.	Sayfa(lar):
1015658	SUWTCR	E58
1015659	SUWTCL	E58
1015684	NUWTC	E59
1015687	FUWTCR	E57
1015688	FUWTCL	E57
1015689	NUFRR	E58
1015690	NUFRL	E58
1015723	HUWTCR	E57
1015754	HUWTCL	E57
1016536	SM812 K9	E38–40, E42–43
1016544	SM837 K9	B172, B354, B378
1016546	SM840 K9	B170, B353–354
1016548	SM841 K9	B172–174, B354–355, B371
1016552	SM871 K9	E37, E41
1016574	SM872 K9	E37
1016576	SM885 K9	E36, E40
1016578	SM886 K9	E36, E40–41
1016582	SM449 K9	T102
1016602	SKTP343 K9	B247–248, B257
1016624	SKCP343 K9	B179–181
1016626	SKDP343 K9	B209–211
1016628	SKCP453 K9	B180, B182
1016644	IWSN433 K9	B161–164
1016648	ITSN323 K9	B132, B137
1016674	ISSN433 K9	B105, B107–108, B110
1016678	ICSN433 K9	B58–60, B66
1016680	IDSN433 K9	B85, B89–90
1016694	IDSN533 K9	B91
1017174	SMYE3 K9	D78–79, D81, D83–86
1017176	SMYI3 K9	D78–79, D81–86
1017178	SMYE4 K9	D78–79, D81, D83–84, D86
1017180	SMYI4 K9	D78–79, D81–86
1017220	ITSN322 K9	B133–134, B137, B139–141
1017222	ISSN332 K9	B109
1017226	IVSN322 K9	B149–153
1017228	SKVN343 K9	B266–268
1017230	IDSN432 K9	B86, B90–93
1017246	IRSN43 K9	B95
1017252	ICSN432 K9	B61–63, B67–68, B70–72
1017276	ITSN433 K9	B133–134, B139–141
1017278	ISSN432 K9	B109–110, B114–117, B119
1017282	IVSN432 K9	B151–152
1017296	ISSN533 K9	B108–109
1017298	ICSN533 K9	B61–63, B66–67, B72
1017300	ISSN633 K9	B108–110, B114–115, B119
1017334	ICSN633 K9	B61–63, B67–68, B72
1018407	CM105	E40–41
1018409	CM106	E40–41
1018413	CM109	C170, D37
1018525	CM66	E37, E41
1018527	CM68	E36, E40
1018531	CM-72	D31–33, D39
1018533	CM73	D31–33, D39
1018569	CM80	D32
1018571	CM81	D32
1018647	MW25	U27–35, V146–147
1018649	MW3	U40–49
1019821	MS1241	T109
1020545	MS1861	H76
1020575	CKM6	B62, B67, B151, B162, B164
1020577	CKM7	B86, B90, B162, B172, B354
1020581	CKM9	B133–134, B170, B173, B353–355
1020583	CKM10	B170, B173–174, B353–355, B371
1020595	CKM12	B61–63, B67–68, B91, B108–110, B114
1020597	CKM13	B172, B354
1020601	CKM19	B109, B172–174, B355, B371
1020603	CKM20	B68, B134, B164
1020605	CKM21	B61–63, B67–68, B95, B108–110, B114, B133–134, B137
1020607	CKM22	B86, B90–91, B153
1020645	CKM26	B151–152
1020653	CKM31	B151–153
1020657	CKM41	B72, B92
1020787	KUAM20	B199–205, B229, B260–262
1020789	KUAM22	B70–72, B92, B115–119, B139–141, B375, B378
1020791	KUAM23	B73, B183, B229, B235–237, B260–263, C171, D41–42
1020805	KUAM26	B72, C171, D41–42
1020807	KUAM27	B72, B115, B119, T81
1020809	KUAM28	B70, B73, B115–121, B142, B199, B202, B220–221, B240–242, B260–263, B376–378
1020811	KUAM30	B70, B115–119, B199, B202, B220–221, B240–242, B260–263, B376–378
1020813	KUAM31	B70–73, B92, B115–121, B139–142, B183, B229, B235–237, B260–263, B375, B378, C171, D41–42
1020835	KUAM32	B70–73, B92–93, B115–117, B119, B139–141, B183, B235, B378
1020839	KUAM34	B199–205, B229, B260–262
1020841	KUAM35	B199, B202, B204–205
1020843	KUAM25	B70–72, B92–93, B115–117, B119, B139–141, B183, B235, B378
1020917	SRS3	B179–181, B209–211, B227–228, B233–234, B247–248, B257, B266–268, B271, S41, T102
1020919	SRS4	B180, B182, B209–211, B213, B233–234
1020923	SSY3T	D78–79, D81–86
1020935	SSY4T	D78–79, D81–86
1020939	MS1374	T79–81
1020941	SSN2T	D81, D86
1020943	SSA3T	D78–79, D81–86
1020965	SSA4T	D78–79, D81–86
1020969	MS110	B174, B371
1020971	MS111	B170, B172–173, B353–355, E37, E41
1020973	MS412	B386, C171, D41–42, E38–40, E42–43
1020975	MS125	B172, B354, B378
1020977	MS1273	C46–47, T109
1021007	MS1321	B168, B370
1021011	MS524	E36, E40
1021013	MS625	E37
1021051	MS1025	C171, D41–42
1021087	MS337	B386
1021093	MS1433	T58–59
1021095	MS518	E37–38, E40–42
1021135	MS959	E36–43
1021137	MS960	B172–173, B354–355
1021139	MS961	B174, B371
1021143	MS364	B72, B115, B119
1021183	MS1375	K85
1021301	MS1571	C122
1021327	MS1242	S32, V49, V56, V60, V72, V78, V147
1021337	MS1152	B260–262, J23, J25, J27, J29, J31, J33, J35, J37
1021339	MS1153	B179–182, B192–205, B210–213, B217–221, B227–229, B247–248, B257–263, B266–269, B271, K74–76, K81, K85
1021341	MS1155	B179–183, B194–199, B202, B209–210, B212–213, B217–219, B229, B233–235, B240–242, B257–258, B260–263, B266–269, B271
1021343	MS1156	B179–181, B209–211, B213, B227–228, B233–234, B247–248, B257, B266–268, B271, C114
1021375	MS1158	B180, B182–183, B209–211, B213, B233–234
1021415	MS1282	U17–18
1021417	MS1284	U17
1021419	MS1285	C46–47
1021421	STCM9	B70–72, B92–93, B109, B115–117, B119, B139–141, B172–174, B355, B371
1021423	STCM11	B67, B90, B134, B164, U27–35, U40–49
1021451	STCM4	B61–63, B67–68, B91, B108–110, B114, B133–134, B151–152, B170, B172–173, B353–355
1021453	STCM5	B62, B67, B86, B90, B151, B162, B164, B172, B354
1021455	STCM8	B72, B115, B119, B170, B173–174, B353–355, B371, B378
1021463	STCM20	B61–63, B67–68, B72, B86, B90–91, B95, B108–110, B114, B133–134, B137, B151–153, B164
1021497	STCM26	B153
1021503	STCM32	U27–28, U30
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1098148	A20SSDUCL11	B213
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1132036	KM50FBH01670	K124
1132063	191.698	H98, J23, J25, J27, J29, J45–46, J74–75
1132119	191.725	I14, V153
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1132138	191.728	J77, J79–81
1132154	191.729	J80–81
1132436	191.848	J45–46, J74–75, V46–49
1132523	191.916	C41–42, H98–99, J23, J25, J27, J29, J31, J33, J35, J37, J75, J98
1132599	ISSN846 K9	B105–106
1132616	9X1R012B12STN10M	W40
1132781	15X1R022B16STN16T	W42
1132857	EB23035250	K139
1132931	192.057	I24
1132990	DCMT070204LF K313	B207
1133075	192.111	J74–75
1133083	192.112	J74–75
1133110	192.126	J81
1133202	PKG3242	K130, K132
1133229	192.156	J77–79
1133236	192.157	J77–80
1133280	EB13030150	K139
1133349	SN3TPKG	D82, D86, W40–43
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1133669	R31FBHS06	K136
1133702	570.850	J47
1133883	AFB13085SCFCR06	K130
1133894	AFB17100SCFCR06	K130
1133903	PKG2025	K130, K132
1133914	RS1608	K125
1133935	DV40BEWD20090M	J47
1134129	840.142.550	K118–119
1134246	192.416	J10–15, J67
1134271	192.419	J77–79
1134279	192.420	J77–79
1134285	SNMA120408 K68	B96
1134298	192.421	J77–80
1134307	192.422	J77–79
1134316	192.423	J77–80
1134324	192.424	J77, J79–81
1134333	192.425	J77, J79–81
1134342	192.426	J80–81
1134353	5.34032-028115	J78
1134361	5.34032-028200	J78
1134385	192.432	H98, I14, J10–12, J23, J25, J27, J29, J31, J33, J35, J37, J67, J74–75, J98
1134388	5.34032-032125	J78
1134393	192.433	J23, J25, J27, J29
1134415	5.34050-028300	J78
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1134440	5.34050-040300	J78
1134457	5.34050-048168	J78
1134464	5.34050-048300	J78
1134472	5.34050-058186	J78
1134482	5.34050-058300	J78
1134503	5.34128R028150	J77
1134512	5.34132R032100	J77
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1134530	5.34140R040200	J77
1134547	5.34148R048200	J77
1134555	5.34158R058300	J77
1134564	5.34170R070186	J77
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1134588	5.34180R080204	J77
1134597	5.34180R080300	J77
1134609	5.36050-154040	J80
1134614	5.34180R080500	J77
1134624	5.34240R032100	J77
1134631	5.34248R040100	J77
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1134650	5.34280R040080	J77
1134657	5.34280R058080	J77
1134666	5.34280R070150	J77
1134674	5.34350-090100	J81
1134716	192.529	U13
1134725	192.530	U13
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1135184	KCUX110302R15 K68	E32
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1135293	DV40BEWD32108M	J47
1135346	PKG156502	K139–140
1135358	PKG7994	K141
1135369	R40FBHS06	K136
1135375	EBUFF0975	K141
1135387	192.718	I14
1135392	512.134	B163
1135404	192.720	I14
1135473	192.730	J81
1135481	192.731	J81
1135617	840.142.720	K118–119
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1135739	KNUX150405L25 K68	E31
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1135826	19X1R023B20STN16T	W42
1135961	DV50BEWD32108M	J47
1135981	BT40RMEWD32114M	J47
1135984	170.008	J79–81
1136025	192.636	B162
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1136247	118.204	E17–18
1136251	192.903	J74–75
1136295	118.314	E17–18
1136414	192.932	V60
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1136592	DV50RMEWD32108M	J47
1136616	121.610	S76
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1136633	121.616	E14–16, E18, E49, E55, S79, S82
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1136703	121.812	E16, K44–46
1136713	121.816	E16–18
1136743	121.825	E18
1136777	125.025	S5, S10, S14, S17, S21, S48, S53, S68, S72, S76, S143–144, S146, T7, T17, V40
1136819	199.123	H64
1136840	125.225	V40
1136858	5.36050-154050	J80
1136926	LSASL1212N16	D78
1136935	LSASL1616H16	D78
1136943	LSASL2020K16	D78
1136949	360.510	I23
1136951	LSASL2525M16	D78
1136955	360.511	I23
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1136965	LSASR1212N16	D78
1136984	LSASR1616H16	D78
1136992	LSASR2020K16	D78
1137000	LSASR2525M16	D78
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1137022	LSSL2525M16Q	D79
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1137036	LSSRDH2525M22Q	D79
1137054	LSSR2020K16Q	D79
1137063	LSSR2525M16Q	D79
1137069	LSSR2525M22Q	D79
1137096	125.616	U8
1137111	125.625	K44–46
1137209	125.820	J74–75
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1137382	511.033	B64–66, B111–113
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1137412	128.510	H64
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1137452	511.060	B87–88
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1137528	129.616	J74–75
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1137713	360.550	I23–24
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1137736	512.123	B64–66
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1137929	STN10100ISOI KC620M	W45
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1138430	170.024	I23–24, J23, J25, J27, J29, J31, J33, J35, J37, J45–46, J98
1138438	170.025	I14, I23–24, J23, J25, J27, J29, J31, J33, J35, J37, J45–46, J98, S4–5, S8–10, S14, S17, S20–21, U13, V46–49, V53–56, V64
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1138455	170.027	J10–15
1138465	170.028	I14, J10–12, J23, J25, J27, J29, J31, J33, J35, J37, J98
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1138755	170.136	K47
1138816	BT40BEWD32114M	J47
1139210	190.076	I24
1139321	190.116	J67
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1139563	360.513	I23
1139601	B510S10000 A30	J76
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1140602	EB38040400	K139
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1147828	511.022	B68, B73, B114, B120–121
1150356	460.716	J81
1150508	100G10NS90LN12N06	U17
1150511	160Y16RS90LN12N06	U18
1150513	160Y16RS90LN12N08	U18
1150524	160Y15RS90LN12N10	U18
1150527	200J18NS90LN12N08	U17
1150624	5.34280R048080	J77
1151011	551.126	B136
1151411	MS1276	J80
1152199	SPGN120308 K68	B169
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1152852	E08KSCFPR06A	B195
1152853	E08KSCFPL06A	B195
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1152860	E08KSTFPR09A	B258
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1153403	HSK63AKR32075M	K87
1153604	HSK63AKR50080M	K87
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1160025	CNMG190612 K68	B47
1160027	DNMG150408B K68	B75
1160039	SNMG120412 K68	B96
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1160068	VNMG160408 K68	B144
1160069	VNMG160412 K68	B144
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1160078	VNGA160408 K68	B143
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1161095	CNMP120404 K313	B56
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1161098	CNMP190612 K313	B56
1161105	VNGP160404K K313	B144
1161106	VNGP160408K K313	B144
1161107	SNMP190612 K313	B104
1161108	TNMP160404 K313	B130
1161109	TNMP160408 K313	B130
1161112	CNGP120404 K313	B46
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1161118	DNGP150404 K313	B74
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1161146	CNMP120404 K68	B56
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1161155	CNMS120408 K68	B57
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1161159	DNMP150404 K68	B83
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1161168	DNMS150408 K68	B84
1161172	SNMP190612 K68	B104
1161173	SNMS120408 K68	B104
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1161187	CNGP120408 K68	B46
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1161194	TNMS220408 K68	B131
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1161200	VNMP160408 K68	B148
1161201	VNMP160404K K68	B148
1161202	VNMP160408K K68	B148
1161203	VNMS160404 K68	B148
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1162181	CCGT060202HP K313	B175
1162182	CCGT060204HP K313	B175
1162183	CCGT09T302HP K313	B175
1162184	CCGT09T304HP K313	B175
1162185	CCGT120404HP K313	B175
1162186	CCGT120408HP K313	B175
1162187	CCMT060204LF K313	B177
1162189	CCMT09T302LF K313	B177
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1162191	CCMT09T308LF K313	B177
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1162195	CPGT09T304HP K313	B188
1162199	CPMT060204LF K313	B190
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1162206	DCGT11T302HP K313	B206
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1162225	VBGT110304LF K313	B264
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1162228	VBGT160404HP K313	B264
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1162230	VBMT110304LF K313	B265
1162233	VBMT160402LF K313	B265
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1162242	RCGT10T3M0HP K313	B222
1162243	RCGT1204M0HP K313	B222
1162245	RCMT09T300 K313	B224
1162246	RCMT0602M0 K313	B224
1162247	RCMT0803M0 K313	B224
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1162254	TCGT110204HP K313	B243
1162255	TCGT16T304HP K313	B243
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1162272	CPMT060204LF K68	B190
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1162288	VBGT110302LF K68	B264
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1163051	CPGT060202K K68	B188
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1163280	KCGX110301R15 K313	E31
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1173988	HSK100AKR63100M	K87
1174502	LSSRDH2020K16Q	D79
1175211	3.77000R028V	J74
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1175225	193.281	J10–15, J23, J25, J31, J33, J35, J37
1176134	B105A08200 K10	G33
1176804	STN22300ISOIC KC610M	W45
1176808	STN27350ISOIC KC610M	W45
1176964	15X1R020B16STN16C	W42
1176967	25X1R040B25STN27C	W42
1176970	10X1R015B20STN11T	W42
1177888	460.889	U7–8
1178986	35X1R055B32STNB38N	W41
1180107	RNMG190600 K313	B94
1180737	TPGN220412T02020 KY3500	B299
1180917	SDET1204PDSRGB KC725M	T105, T112, U51
1181980	DNGA150608T02020 KY3500	B293
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1181984	TNGA160408T02020 KY3500	B294
1181985	TNGA160412T02020 KY3500	B294
1181986	WNGA080408T02020 KY3500	B294
1181987	WNGA080412T02020 KY3500	B294
1181988	WNGA080416T02020 KY3500	B294
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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1244917	SCSPR1010H06	B193
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1245326	1.18025L315	E15
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1245364	1.78032R400	E18
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1245382	1.77225R301	E18
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1245392	1.78012R103	E18
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1245397	1.78020R100	E18
1245398	1.78025L300	E18
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1245725	3.37121R332	I14
1245726	3.37131R832	I14
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1260087	CC11	B185–187
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1270621	EB58050600	K139
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1282100	MCLNR16CA12	B72
1282677	KSEM240R7WN25M	H61
1282803	MSRNL12CA12	B116
1282807	MSSNR12CA12	B117
1284109	PCSNL3225P12	B66
1287636	SN5TM	W40–43
1288604	STN1616UNI KC610M	W44
1288876	A04XSCLDLS4	B186
1288877	A04XSCLDRS4	B186
1288884	A06HSTFDR07	B250
1288886	A06HSTLDR07	B250
1288892	A06XSCLDLS4	B186
1288893	A06XSCLDRS4	B186
1288898	A08HSTFDR07	B250
1288900	A08HSTLDR07	B250
1288905	A08XSCLDLS4	B186
1288906	A08XSCLDRS4	B186
1289072	S40T-CCLNL12-MN7	B372
1289075	S40T-CCLNR12-MN4	B372
1289076	S40T-CCLNR12-MN7	B372
1289077	S40T-CCLNR12-MX7	B372
1289129	A0412ESCLDRS412	B187
1289130	A0412ESCLDRS425	B187
1289155	A0612XSTLDR0731	B251
1291909	VBMT110304011 KT315	B264
1294964	11X1R012B12STN11N	W40
1300343	5.34270R058100	J77
1300344	5.34280R032080	J77
1310704	DPGT070204LF KC5010	B214
1310705	DPGT11T302LF KC5010	B214
1310707	DPGT11T301LF KC5010	B214
1310718	CCGT060202LF KC5010	B175
1310719	DPGT11T304HP KC5010	B214
1310720	DPGT11T304LF KC5010	B214
1310721	CCGT060201LF KC5010	B175
1310723	DPGT11T308HP KC5010	B214
1310724	CCGT060204HP KC5010	B175
1310725	DPGT11T308LF KC5010	B214
1310726	CCGT060204LF KC5010	B175
1310728	CCGT060208LF KC5010	B175
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1310735	CCGT09T301LF KC5010	B175
1310737	CCGT09T304HP KC5010	B175
1310739	CCGT09T304LF KC5010	B175
1310740	CCGT09T308LF KC5010	B175
1310746	CCGT120402HP KC5010	B175
1310750	CCGT120404HP KC5010	B175
1310777	CNGP120408K KC5010	B47
1310793	TPGT110202HP KC5010	B254
1310800	TPGT16T304HP KC5010	B254
1310802	TPGT16T308HP KC5010	B254
1310803	CPGT060204K KC5010	B188
1310805	TPGT16T308LF KC5010	B254
1310838	CPGT060202LF KC5010	B189
1310839	CPGT060201LF KC5010	B189
1310841	VBMT110302LF KC5010	B265
1310842	CPGT060204LF KC5010	B189
1310844	CPGT09T302HP KC5010	B188
1310845	VBMT110304LF KC5010	B265
1310846	CPGT09T302LF KC5010	B189
1310849	VBMT160404LF KC5010	B265
1310850	CPGT09T304HP KC5010	B188
1310878	CPGT09T304LF KC5010	B189
1310880	DCGT11T302HP KC5010	B206
1310881	DCGT11T304HP KC5010	B206
1310882	DCGT11T308HP KC5010	B206
1310883	VNGP160404K KC5010	B144
1310885	DCMT070204LF KC5010	B207
1310887	DCMT11T302LF KC5010	B207
1310888	VNGP160408K KC5010	B144
1310890	DCMT11T304LF KC5010	B207
1310939	TPGT110204HP KC5010	B254
1310943	TPGT110204LF KC5010	B254
1310944	DPGT070202HP KC5010	B214
1310945	DPGT070204HP KC5010	B214
1310946	TPGT16T304LF KC5010	B254
1310947	DPGT070202LF KC5010	B214
1310948	VBMT160408LF KC5010	B265
1310950	WNGP080408K KC5010	B154
1310951	DCMT070202LF KC5010	B207
1310954	CCGT120408HP KC5010	B175
1310955	CNMG120408 KC5010	B47
1310956	CNMG120408MG KC5010	B57
1311193	KSEM160R7WN20M	H61
1312498	364.015	H58, H60, H63, H99
1313053	CRDNN2525M12MN7	B362
1314840	DCMT11T308LF KC5010	B207
1315965	MS1489	D31–33, D39
1316525	3.42805R001 KC7215	I27
1316526	3.42807R001 KC7215	I27
1318353	SCLCL2525M09	B180
1319470	IWSN322 K9	B161–162, B164
1320407	CRDNN3225P12MN7	B362
1321012	410.083	S143–147
1322363	3.90016SNGB KC735M	U9
1322365	3.90022SNGB KC735M	U9
1322366	3.90030SNGB KC735M	U9
1322367	3.90040SNGB KC735M	U9
1322368	3.90022ECGD KMF	U9
1322370	3.90030ECGD KMF	U9
1322371	3.90040ECGD KMF	U9
1322958	SPHX1205ZCTRGPK KY3500	S73
1324116	CRSNR2525M12MN7	B362
1324700	193.297	C118
1327362	CDJNR3225P15MN7	B360
1327363	CDJNL3225P15MN7	B360
1328642	A06MSWLCR2	B271
1328644	A08RSWLCR2	B271
1328646	A10SSWLCR3	B271
1331458	CELNR2525M13MF7	B361
1331597	CRSNL3225P12MN7	B362
1339367	MSSNR10CA09	B117
1500650	KRCSCFPR062L	K82
1501221	CELNL2525M13MN7	B361
1501222	CELNR2525M13MN7	B361
1501356	KRCSCFPR061L	K82
1501357	KRCSCFPR063L	K82
1501652	50A05RP90SP12CFP	S76
1501653	63A08RP90SP12CFP	S76
1501655	80A10RP90SP12CFP	S76
1501660	100B14RP90SP12CFP	S76
1501666	50A06RP70SP12CFP	S72
1501667	63B08RP70SP12CFP	S72
1501668	80B10RP70SP12CFP	S72
1501701	100B14RP70SP12CFP	S72
1502204	CRDNN3225P12MN4	B362
1503007	50A04RP90SP12CFP	S76
1503012	63A06RP90SP12CFP	S76
1503013	80A06RP90SP12C1WFP	S76
1503015	100B08RP90SP12C2WFP	S76
1503018	125B10RP90SP12C2WFP	S76
1503021	160C12RP90SP12C3WFP	S76
1503022	200C16RP90SP12C4WFP	S76
1503027	50A04RP70SP12CFP	S72
1503029	63B05RP70SP12CFP	S72
1503034	100B08RP70SP12C2WFP	S72
1503038	80B06RP70SP12C1WFP	S72
1503049	125B10RP70SP12C2WFP	S72
1503054	160C12RP70SP12C3WFP	S72
1503057	200C16RP70SP12C4WFP	S72
1503826	CCLNR2525M12-MF7	B358
1503827	CCRNL2525M12-MN7	B359
1504247	SPHX1205ZCTRGP4SK KY3500	S73
1504885	CCRNR3225P12-MN7	B359
1504931	CCLNL3225P12-MN7	B358
1504935	CCLNL2525M12-MF7	B358
1504937	CCLNR3225P12-MN4	B358
1504968	CDJNL2525M15MX7	B360
1504969	CDJNL2525M15MN7	B360
1505366	SPHX1205ZCTR-GP1WK KY3500	S74
1505370	SPHX1205PCTRGPBK KY3500	S77
1505394	SPHX1205PCTRGP4SBK KY3500	S77
1505400	SPHX1205PCTR-GP1WBK KY3500	S78
1505504	CDHNR2525M12-MX7	B359
1505803	CELNR2525M13-MX7	B361
1505865	SPHX1205PCSRGPB KC725M	S77
1505881	SPHX1205ZCERGP4S KCK15	S73
1505883	479.100	S72, S76, S79, S82
1505923	SPHX1205PCERGP4SB KCK15	S77
1510281	CRDNN2525M12MN4	B362
1510282	CRSNL2525M12-MN4	B362
1510283	CRSNL2525M12MN7	B362
1510284	CRSNL3225P12MN4	B362
1510285	CRSNR2525M12-MN4	B362
1510286	CRSNR3225P12MN4	B362
1510291	CSRNL2525M12-MN4	B364
1510292	CSRNL2525M12-MN7	B364
1510300	CSRNL3225P15-MX7	B364
1510303	CSRNR2525M12-MN4	B364
1510313	CSXNL2525M12-MN4	B366
1510327	CSXNR2525M12-MN4	B366
1510334	CSXNR3225P12-MX7	B366
1510341	CTFNL2525M16-MN4	B368
1510344	CTFNR2525M16-MN4	B368
1510401	S40T-CCLNL12-MX7	B372
1510773	170.281	H65
1510776	170.282	H65
1510779	170.283	H65
1510781	170.284	H65
1511189	VCGR160404 KT315	E34
1514473	SSSCL2525M12	B234
1516937	SPHX1205ZCER-GP1W KCK15	S74
1517764	SPHX1205PCER-GP1WB KCK15	S78
1520056	3.90016SNGD KC735M	U9
1520057	3.90022SNGD KC735M	U9
1520058	3.90030SNGD KC735M	U9
1520059	3.90040SNGD KC735M	U9
1520076	3.90016ECGD KMF	U9
1522062	KRBB16SCLDRS406A	K75, K98
1522063	KRBB16SCFPR06085A	K75, K98
1522064	KRBB16SCFPR0611A	K75, K98
1522068	KRBB16SCFPR06135A	K75, K98
1522069	KRBB16SCFPR0616A	K75, K99
1522070	KRBB16SCFPR0619A	K75, K99
1522071	KRBB16SCFPR0622A	K75, K99
1522848	TPGT090204LF KC5010	B254
1522850	TPGT16T302HP KC5010	B254
1522905	CPGT060202HP KC5010	B188
1522907	CPGT060204HP KC5010	B188
1522942	TCGT110204HP KC5010	B243
1522943	TCGT16T302HP KC5010	B243
1522945	TCGT16T304HP KC5010	B243
1522946	TCGT110204LF KC5010	B243
1522947	TCGT16T302LF KC5010	B243
1522948	TCGT16T304LF KC5010	B243
1522949	TCGT16T308LF KC5010	B243
1523196	TCGT110202HP KC5010	B243
1523329	TPGT090202LF KC5010	B254
1523354	TCGT16T308HP KC5010	B243
1523501	RCGK040300HP K313	E63
1527051	SCMT12040811 KT315	B230
1527992	DCMT11T30811 KT315	B206
1527995	TCMT16T30811 KT315	B243
1528328	DV50BKR32041M	K86
1535836	SDET120412PDERGB KC725M	T105, T112, U51
1536224	SDET1204PDERGB KC520M	T105, T112, U51
1539005	DV40BKR32041M	K86
1541367	DFT250R2WD32M	J44
1541368	DFT260R2WD32M	J44
1541369	DFT270R2WD32M	J44
1541370	DFT280R2WD32M	J44
1541381	DFT290R2WD32M	J44
1541382	DFT300R2WD32M	J44
1541383	DFT310R2WD32M	J44
1541384	DFT320R2WD32M	J44
1541385	DFT330R2WD32M	J44
1541386	DFT340R2WD32M	J44
1541387	DFT350R2WD32M	J44
1541388	DFT360R2WD32M	J44
1541389	DFT370R2WD32M	J44
1541390	DFT380R2WD32M	J44
1541391	DFT390R2WD32M	J44
1541392	DFT400R2WD32M	J44
1541393	DFT410R2WD32M	J44
1541394	DFT420R2WD32M	J44
1541395	DFT430R2WD32M	J44
1541396	DFT440R2WD32M	J44
1541847	DFT250R2WD40M	J44
1541848	DFT260R2WD40M	J44
1541849	DFT270R2WD40M	J44
1541850	DFT280R2WD40M	J44
1541851	DFT290R2WD40M	J44

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Sipariş No.	Katalog No.	Sayfa(lar):
1541852	DFT300R2WD40M	J44
1541853	DFT310R2WD40M	J44
1541854	DFT320R2WD40M	J44
1541855	DFT330R2WD40M	J44
1541856	DFT340R2WD40M	J44
1541857	DFT350R2WD40M	J44
1541858	DFT360R2WD40M	J44
1541859	DFT370R2WD40M	J44
1541860	DFT480R2WD40M	J44
1541871	DFT380R2WD40M	J44
1541872	DFT390R2WD40M	J44
1541873	DFT400R2WD40M	J44
1541874	DFT410R2WD40M	J44
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1541905	DFT530R2WD40M	J44
1541906	DFT540R2WD40M	J44
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1541932	DFT460R2WD50M	J44
1541933	DFT470R2WD50M	J44
1541934	DFT480R2WD50M	J44
1541935	DFT490R2WD50M	J44
1541936	DFT500R2WD50M	J44
1541951	DFT510R2WD50M	J44
1541952	DFT520R2WD50M	J44
1541953	DFT530R2WD50M	J44
1541954	DFT670R2WD50M	J45
1542043	DFT540R2WD50M	J44
1542071	DFT550R2WD50M	J44
1542072	DFT560R2WD50M	J44
1542074	DFT570R2WD50M	J44
1542076	DFT580R2WD50M	J44
1542081	DFT600R2WD50M	J44
1542083	DFT610R2WD50M	J45
1542090	DFT620R2WD50M	J45
1542092	DFT630R2WD50M	J45
1542093	DFT640R2WD50M	J45
1542096	DFT650R2WD50M	J45
1542097	DFT660R2WD50M	J45
1542099	DFT680R2WD50M	J45
1542105	DFT690R2WD50M	J45
1542107	DFT700R2WD50M	J45
1542781	DFT710R2WD50M	J45
1542782	DFT720R2WD50M	J45
1543235	DFT730R2WD50M	J45
1543236	DFT740R2WD50M	J45
1543237	DFT750R2WD50M	J45
1543238	DFT760R2WD50M	J45
1543239	DFT770R2WD50M	J45
1543240	DFT780R2WD50M	J45
1543311	DFT790R2WD50M	J45
1543312	DFT800R2WD50M	J45
1543313	DFT810R2WD50M	J45
1543314	DFT820R2WD50M	J45
1544364	DFT590R2WD50M	J44
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1551610	KSEM165R10WN20M	H61
1551831	KSEM170R10WN20M	H61
1551833	KSEM175R10WN20M	H61
1551834	KSEM180R10WN20M	H61
1551835	KSEM185R10WN25M	H61
1551836	KSEM190R10WN25M	H61
1551837	KSEM195R10WN25M	H61
1551838	KSEM200R10WN25M	H61
1551839	KSEM210R10WN25M	H61
1551840	KSEM220R10WN25M	H61
1551841	KSEM230R10WN25M	H61
1551842	KSEM240R10WN25M	H61
1551843	KSEM250R10WN32M	H61
1551844	KSEM260R10WN32M	H62
1551845	KSEM265R10WN32M	H62
1551846	KSEM270R10WN32M	H62
1551847	KSEM280R10WN32M	H62
1551848	KSEM290R10WN32M	H62
1551849	KSEM300R10WN32M	H62
1551850	KSEM310R10WN32M	H62
1551861	KSEM320R10WN32M	H62
1553521	SPHX1205ZCTLGPK KY3500	S73
1556483	LNEQ1245R04 KC520M	U20
1556531	LNEU1245R04 KC520M	U19
1556533	LNEU1245R08 KC520M	U19
1556535	LNEU1245R16 KC520M	U19
1556536	LNEU1245R32 KC520M	U19
1556542	LNEU1255R08 KC520M	U19
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1560390	CCGT09T302HP KC5410	B175
1560600	CCGT060202HP KC5410	B175
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1560653	CCGT120404HP KC5410	B175
1560655	CCGT120408HP KC5410	B175
1560692	CPGT060204LF KC5410	B189
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1560694	CPGT09T304HP KC5410	B188
1560698	CPGT09T304LF KC5410	B189
1560699	DCGT11T302HP KC5410	B206
1560714	DCGT11T304HP KC5410	B206
1560715	DCGT11T308HP KC5410	B206
1560717	DNGP150402 KC5410	B74
1560721	DPGT070204HP KC5410	B214
1560723	DPGT11T304HP KC5410	B214
1560751	RCGK060400HP KC5410	E63
1560752	RCGK090700HP KC5410	E63
1560753	RCGK120800HP KC5410	E63
1560756	TPGT110204HP KC5410	B254
1560757	TPGT16T304HP KC5410	B254
1560759	TPGT16T308HP KC5410	B254
1560781	VCGR160404 KC5410	E34
1560783	VCGR160408 KC5410	E34
1560784	WNGP080408K KC5410	B154
1560790	CNMP120404 KC5410	B56
1560795	CNMP120408 KC5410	B56
1560797	CNMS120408 KC5410	B57
1560799	CNMS160608 KC5410	B57
1560801	CNMS190608 KC5410	B57
1560803	DNMS150408 KC5410	B84
1560808	SNMS190612 KC5410	B104
1560829	TNMS220408 KC5410	B131
1560833	VNMS160404 KC5410	B148
1560834	VNMS160408 KC5410	B148
1566071	46X1R100B40STNB38L	W41
1582600	KR50SVU65110MCLB	K84
1582734	3.76180R110	J72–73
1582739	3.76195R110	J72–73
1582742	3.76213R125	J72–73
1582745	3.76230R160	J72–73
1582750	3.76260R160	J72–73
1592413	KSEM160R1WN20M	H58
1592414	KSEM181R1WN25M	H58
1592416	KSEM200R1WN25M	H58
1592417	KSEM221R1WN25M	H58
1592418	KSEM241R1WN32M	H58
1592419	KSEM261R1WN32M	H58
1592420	KSEM281R1WN32M	H58
1592461	KSEM301R1WN32M	H58
1592463	KSEM321R1WD50M	H58
1592464	KSEM361R1WD50M	H58
1592465	KSEM181R5WN25M	H59
1592466	KSEM221R5WN25M	H59
1592467	KSEM241R5WN32M	H60
1592468	KSEM261R5WN32M	H60
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1592505	KSEM380R5WD50M	H60
1592507	KSEM390R5WD50M	H60
1592509	KSEM400R5WD50M	H60
1597226	SDCW1204PDSRGN KY3500	T106, T113
1597228	SDCW120412PDSRGN KY3500	T106, T113
1599327	KSEM225R10WN25M	H61
1600249	KGMSR2525M50	C129
1600250	KGMSL2525M50	C129
1600270	KGMER2525M50	C130
1600271	KGMEL2525M50	C130
1601557	CNMG120404FF KC5010	B48
1601631	CNMG120404FF KT315	B48
1601632	CNMG120408FF KC5010	B48
1601636	CNMG120408FF KT315	B48
1601637	DNMG150608FF KC5010	B76
1601651	DNMG150608FF KT315	B76
1601652	WNMG080408FF KC5010	B155
1601656	TNMG160408FF KC5010	B124
1601886	TNMG160408FF KT315	B124
1601888	VNMG160404FF KC5010	B145
1601890	VNMG160408FF KC5010	B145
1601953	VNMG160408FF KT315	B145
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1602250	WNMG060408FF KC5010	B155
1602304	WNMG060408FF KT315	B155
1602579	TNMG160404FF KT315	B124
1602604	TNMG160404FF KC5010	B124
1604705	DNMG150408FF KT315	B76
1604706	DNMG150408FF KC5010	B76
1605207	CNMG120404FN KT315	B49
1605242	CNMG120408FN KT315	B49
1605250	CNMG120412FN KT315	B49
1605279	DNMG150408FN KT315	B77
1605334	DNMG150608FN KT315	B77
1606050	50HC040M	G85
1606061	50HC060M	G85
1606062	50HC080M	G85
1606064	50HC100M	G85
1606360	SNMG120408FN KT315	B97
1606485	TNMG160408FN KT315	B124
1606718	WNMG080408FN KT315	B155
1608363	DFR125R2WD20M	J10
1608364	DFR127R2WD20M	J10
1608365	DFR130R2WD20M	J10
1608366	DFR135R2WD20M	J10
1608367	DFR140R2WD20M	J10
1608368	DFR145R2WD20M	J10
1608369	DFR150R2WD20M	J10
1608370	DFR155R2WD20M	J10
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1608392	DFR125R3WD20M	J11
1608393	DFR127R3WD20M	J11
1608394	DFR130R3WD20M	J11
1608395	DFR135R3WD20M	J11
1608396	DFR140R3WD20M	J11
1608397	DFR145R3WD20M	J11
1608398	DFR150R3WD20M	J11
1608399	DFR155R3WD20M	J11
1608400	DFR160R3WD20M	J11
1608497	DNMG110404FF KC5010	B76
1608500	DNMG110404FF KT315	B76
1608944	DNMG110408FF KT315	B76
1608949	TNMG160404FN KT315	B124
1610085	TNMG160412FN KT315	B124
1610089	DNMG110404FN KT315	B77
1610905	VCGR160408 KT315	E34
1610983	DNMG110408FN KT315	B77
1610985	DNMG150604FF KC5010	B76
1610988	DNMG150604FF KT315	B76
1611279	DNMG150604FN KT315	B77
1611325	DNMG150612FN KT315	B77
1611330	WNMG060404FN KT315	B155
1611335	WNMG060408FN KT315	B155
1611338	WNMG080404FF KC5010	B155
1611360	KSEM181R10WN25M	H61
1611414	WNMG080404FN KT315	B155
1611417	SNMG120408FF KC5010	B97
1611434	KSEM205R10WN25M	H61
1611435	KSEM215R10WN25M	H61
1611436	KSEM221R10WN25M	H61
1611437	KSEM235R10WN25M	H61
1611438	KSEM241R10WN32M	H61
1611439	KSEM245R10WN32M	H61
1611440	KSEM255R10WN32M	H61
1611441	KSEM261R10WN32M	H62
1611442	KSEM275R10WN32M	H62
1611443	KSEM281R10WN32M	H62
1611444	KSEM285R10WN32M	H62
1611445	KSEM295R10WN32M	H62
1611446	KSEM301R10WN32M	H62
1611931	LSASR3232P22	D78
1611933	LSSR3232P16Q	D79
1611934	LSSL3232P16Q	D79
1611935	LSSR3232P22Q	D79
1611938	LSSRDH2525M16	D79
1611939	LSSLDH2525M16	D79
1612562	DNMG150404FF KC5010	B76
1612565	DNMG150404FF KT315	B76
1612581	A1320LSER16	D81
1612584	A2020LSER22	D81
1612585	A2020LSEL22	D81
1612586	A2532LSEL16	D81
1612587	A3232LSER22	D81
1612588	A3232LSEL22	D81
1612950	DNMG150404FN KT315	B77
1617589	DNMG150412FN KT315	B77
1620372	KCGR110304R08 KT315	E29
1620373	TPMT110204LF KT315	B255
1620374	CPMT060208LF KT315	B190
1621083	KGMSR3232P50	C129
1621084	KGMSL3232P50	C129
1621085	KGMER3232P50	C130
1621086	KGMEL3232P50	C130
1621087	MS2002	C58–65, C129–135
1623193	CCGT060208HP KC5410	B175
1623194	CCGT09T308HP KC5410	B175
1623200	DCGT070202HP KC5410	B206
1623271	DCGT070204HP KC5410	B206
1623272	TCGT110202HP KC5410	B243
1623273	TCGT110204HP KC5410	B243
1623274	TCGT16T304HP KC5410	B243
1623275	TCGT16T308HP KC5410	B243
1623278	VBGT160404HP KC5410	B264
1623279	VBGT160408HP KC5410	B264
1624156	CNMG090304FF KC5010	B48
1624159	CNMG090308FF KC5010	B48
1624223	SNMG090304FF KC5010	B97
1624227	SNMG090308FF KC5010	B97
1624229	SNMG090308FF KT315	B97
1624233	TNMG110308FF KC5010	B124
1624424	CNMG090304FN KT315	B49
1624431	VNMG160404FN KT315	B145
1624432	VNMG160408FN KT315	B145
1624878	EBURF1975PKG	K141
1679773	LT11NRA60CB KC5025	D67
1679775	LT11NR075ISOCB KC5025	D71
1679776	LT11NR10ISOCB KC5025	D71
1679777	LT11NR125ISOCB KC5025	D71
1679778	LT11NR15ISOCB KC5025	D71
1679779	LT16ERAG60CB KC5010	D53
1679780	LT16ERAG60CB KC5025	D53
1690871	LT16ER05ISOCB KC5010	D58
1690872	LT16ER05ISOCB KC5025	D58
1690873	LT16ER075ISOCB KC5010	D58
1690874	LT16ER075ISOCB KC5025	D58
1690875	LT16ER10ISOCB KC5010	D58
1690876	LT16ER10ISOCB KC5025	D58
1690877	LT16ER125ISOCB KC5010	D58
1690878	LT16ER125ISOCB KC5025	D58
1690879	LT16ER15ISOCB KC5010	D58
1690880	LT16ER15ISOCB KC5025	D58
1692101	LT16ER175ISOCB KC5010	D58
1692102	LT16ER175ISOCB KC5025	D58
1692103	LT16ER20ISOCB KC5010	D58
1692109	LT16ER20ISOCB KC5025	D58
1698205	LT16ER25ISOCB KC5025	D58
1698206	LT16ER30ISOCB KC5010	D58
1698207	LT16ER30ISOCB KC5025	D58
1698208	LT16NRAG60CB KC5025	D67
1698209	LT16NRG60CB KC5025	D67
1698210	LT16NR10ISOCB KC5025	D71
1712545	840.142.250	K118–120
1712546	840.142.320	K118–119
1712547	840.142.420	K118–119
1712552	LT16NR15ISOCB KC5025	D71
1712554	LT16NR20ISOCB KC5025	D71

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
1712555	LT16NR25ISOCB KC5025	D71
1712556	LT11NR16UNCB KC5025	D75
1712557	LT11NR18UNCB KC5025	D75
1712558	LT11NR20UNCB KC5025	D75
1712559	LT11NR24UNCB KC5025	D75
1712561	LT11NR32UNCB KC5025	D75
1712563	LT16ER8UNCB KC5010	D63
1712564	LT16ER8UNCB KC5025	D63
1712566	LT16ER10UNCB KC5025	D63
1712567	LT16ER12UNCB KC5010	D63
1712568	LT16ER12UNCB KC5025	D63
1712569	LT16ER14UNCB KC5010	D63
1712570	LT16ER14UNCB KC5025	D63
1712586	SPHX1205ZCERGP KC520M	S73
1712601	LT16ER16UNCB KC5010	D63
1712602	LT16ER16UNCB KC5025	D63
1712603	LT16ER18UNCB KC5010	D63
1712604	LT16ER18UNCB KC5025	D63
1712605	LT16ER20UNCB KC5010	D63
1712606	LT16ER20UNCB KC5025	D63
1712607	LT16ER24UNCB KC5010	D63
1712608	LT16ER24UNCB KC5025	D63
1712609	LT16ER28UNCB KC5010	D63
1712610	LT16ER28UNCB KC5025	D63
1712611	LT16ER32UNCB KC5010	D63
1712612	LT16ER32UNCB KC5025	D63
1712614	LT16ER11WCB KC5025	D65
1712615	LT16ER14WCB KC5010	D65
1712616	LT16ER14WCB KC5025	D65
1712617	LT16ER14NPTCB KC5010	D59
1712618	LT16ER14NPTCB KC5025	D59
1712620	LT16ER115NPTFCB KC5025	D60
1712661	LT16NR8UNCB KC5025	D75
1712663	LT16NR10UNCB KC5025	D75
1712664	LT16NR12UNCB KC5025	D75
1712665	LT16NR14UNCB KC5025	D75
1712666	LT16NR16UNCB KC5025	D75
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1712668	LT16NR20UNCB KC5025	D75
1712669	LT16NR11WCB KC5025	D76
1712670	LT16NR14WCB KC5025	D76
1712671	LT16NR115NPTCB KC5025	D72
1712672	LT16NR14NPTCB KC5025	D72
1712711	SPHX1205ZCER-GP1W KC520M	S74
1712714	SPHX1205PCERGPB KC520M	S77
1712730	NG2M150LK KC5025	C147
1712734	NG2M150RK KC5025	C146
1712949	SPHX1205PCERGP4SB KC520M	S77
1712981	SPHX1205PCER-GP1WB KC520M	S78
1713203	DFT090508MD KC7140	J87
1713307	RCGT0803M0HP KC5410	B222
1713308	RCGT10T3M0HP KC5410	B222
1713310	RCGT0803M0HP KC5010	B222
1713351	RCGT10T3M0HP KC5010	B222
1713352	RCGT1204M0HP KC5010	B222
1713356	CPGT09T308LF KC5010	B189
1713359	VBGT110301LF KC5010	B264
1713402	840.142.200	K118–120
1713440	DFT070408MD KC7140	J87
1713512	DFT06T308MD KC7140	J87
1713513	DFT05T308MD KC7140	J87
1713515	DFT030304MD KC7140	J87
1713517	DFT030204MD KC7140	J87
1715530	841.142.250	K118–120
1721296	SPHX1205PCELGPB KCK15	S77
1723607	NG3094RK KC5010	C146
1723608	SPGT09T308LF KC5410	B238
1723693	LT16ER15ISO KC5010	D57
1723694	LT16ER125ISO KC5010	D57
1723695	LT16ER175ISO KC5010	D57
1723696	LT16ER20ISO KC5010	D57
1723697	LT16ER25ISO KC5010	D57
1723698	LT16ER30ISO KC5010	D57
1723726	LT16EL15ISO KC5010	D57
1724012	LT11NR15ISO KC5010	D70
1724013	LT16NR10ISO KC5010	D70
1724014	LT16NR15ISO KC5010	D70
1724031	LT16NR20ISO KC5010	D70
1724040	LT16NR30ISO KC5010	D70
1724291	LT16ER32UN KC5010	D62
1724292	LT16ER28UN KC5010	D62
1724293	LT16ER24UN KC5010	D62
1724294	LT16ER20UN KC5010	D62
1724295	LT16ER18UN KC5010	D62
1724296	LT16ER16UN KC5010	D62
1724297	LT16ER14UN KC5010	D62
1724298	LT16ER12UN KC5010	D62
1724299	LT11NR16UN KC5010	D74
1724300	LT16EL05ISO KC5025	D57
1724331	LT16NR12UN KC5010	D74
1724333	LT16EL075ISO KC5025	D57
1724334	LT16ER20UNJ KC5010	D63
1724335	LT16EL10ISO KC5025	D57
1724337	LT16ER18UNJ KC5010	D63
1724338	LT16ER16UNJ KC5010	D63
1724340	LT16ER14UNJ KC5010	D63
1724352	LT16EL125ISO KC5025	D57
1724354	LT16ER12UNJ KC5010	D63
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1724360	LT16ER14W KC5010	D64
1724372	LT16EL175ISO KC5025	D57
1724373	LT16ER11W KC5010	D64
1724377	LT16EL20ISO KC5025	D57
1724392	LT16NR11W KC5010	D76
1724394	LT16EL25ISO KC5025	D57
1724398	LT16ER18NPT KC5010	D59
1724400	LT16EL30ISO KC5025	D57
1724401	LT16ER14NPT KC5010	D59
1724402	LT16ER115NPT KC5010	D59
1724403	LT11NR14NPT KC5010	D72
1724405	LT16NR115NPT KC5010	D72
1724406	LT16ERA60 KC5010	D53
1724408	LT22EL35ISO KC5025	D57
1724411	LT16ERAG60 KC5010	D53
1724412	LT16ERG60 KC5010	D53
1724414	LT11NRA60 KC5010	D66
1724415	LT16NRA60 KC5010	D66
1724418	LT16NRAG60 KC5010	D66
1724420	LT16NRG60 KC5010	D66
1724426	LT16ERAG55 KC5010	D52
1724437	LT11NL10ISO KC5025	D70
1724439	LT11NL15ISO KC5025	D70
1724494	LT16NL10ISO KC5025	D70
1724495	LT16ER10ISO KC5010	D57
1724497	LT16NL15ISO KC5025	D70
1724499	LT16NL20ISO KC5025	D70
1724524	LT16ER05ISO KC5025	D57
1724525	LT16NL25ISO KC5025	D70
1724526	LT16NL30ISO KC5025	D70
1724527	LT16ER075ISO KC5025	D57
1724562	LT16ER48UN KC5025	D62
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1724565	LT16ER32UN KC5025	D62
1724566	LT16ER28UN KC5025	D62
1724734	LT16ER24UN KC5025	D62
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1724737	LT16ER16UN KC5025	D62
1724738	LT16ER14UN KC5025	D62
1724834	LT16ER12UN KC5025	D62
1724835	LT16ER10UN KC5025	D62
1724836	LT16ER8UN KC5025	D62
1724878	NG3047RK KC5010	C146
1725015	LT16EL28UN KC5025	D62
1725017	LT16EL24UN KC5025	D62
1725018	LT16EL20UN KC5025	D62
1725053	LT16EL18UN KC5025	D62
1725054	LT16EL16UN KC5025	D62
1725055	LT16EL14UN KC5025	D62
1725056	LT16EL12UN KC5025	D62
1725058	LT16EL8UN KC5025	D62
1725060	LT11NR40UN KC5025	D74
1725108	LT16ER10ISO KC5025	D57
1725109	LT16ER125ISO KC5025	D57
1725110	LT16ER15ISO KC5025	D57
1725221	LT16ER175ISO KC5025	D57
1725222	LT16ER20ISO KC5025	D57
1725223	LT16ER25ISO KC5025	D57
1725224	LT16ER30ISO KC5025	D57
1725225	LT22ER35ISO KC5025	D57
1725461	LT22ER40ISO KC5025	D57
1725462	LT22ER45ISO KC5025	D57
1725463	LT22ER50ISO KC5025	D57
1725464	LT11NR05ISO KC5025	D70
1725465	LT11NR075ISO KC5025	D70
1725466	LT11NR10ISO KC5025	D70
1725467	LT11NR125ISO KC5025	D70
1725468	LT11NR15ISO KC5025	D70
1725469	LT11NR175ISO KC5025	D70
1725471	LT11NR20ISO KC5025	D70
1725472	LT16NR05ISO KC5025	D70
1725474	LT16NR075ISO KC5025	D70
1725475	LT16NR10ISO KC5025	D70
1725476	LT16NR125ISO KC5025	D70
1725477	LT16NR15ISO KC5025	D70
1725478	LT16NR175ISO KC5025	D70
1725511	LT16NR20ISO KC5025	D70
1725512	LT16NR25ISO KC5025	D70
1725513	LT16NR30ISO KC5025	D70
1725515	LT22NR35ISO KC5025	D70
1725516	LT22NR40ISO KC5025	D70
1725519	LT22NR45ISO KC5025	D70
1725520	LT22NR50ISO KC5025	D70
1727704	LT16NR8UN KC5025	D74
1730321	DFR020204LD KC7140	J84
1732924	MS1944	C39–40, C112–114
1743686	LT16EL8APIRD KC5025	D55
1743696	LT16EL16UNJ KC5025	D63
1743701	LT16ELA60 KC5025	D53
1743702	LT16ELAG60 KC5025	D53
1743703	LT16ELG60 KC5025	D53
1743704	LT22ELN60 KC5025	D53
1743706	LT16ELAG55 KC5025	D52
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1743717	LT16EL11W KC5025	D64
1743734	LT16ER32UNJ KC5025	D63
1743735	LT16ER28UNJ KC5025	D63
1743736	LT16ER24UNJ KC5025	D63
1743737	LT16ER20UNJ KC5025	D63
1743738	LT16ER18UNJ KC5025	D63
1743739	LT16ER16UNJ KC5025	D63
1743740	LT16ER14UNJ KC5025	D63
1743741	LT16ER12UNJ KC5025	D63
1743744	LT16ERA60 KC5025	D53
1743745	16ERAG60 KC5025	D53
1743746	LT16ERG60 KC5025	D53
1743747	LT22ERN60 KC5025	D53
1743748	LT16ERA55 KC5025	D52
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1743765	LT22ER6W KC5025	D64
1743767	LT16ER14BSPT KC5025	D56
1743768	LT16ER11BSPT KC5025	D56
1743769	LT16ER27NPT KC5025	D59
1743770	LT16ER18NPT KC5025	D59
1743771	LT16ER14NPT KC5025	D59
1743772	LT16ER115NPT KC5025	D59
1743773	LT16ER8NPT KC5025	D59
1743774	LT16ER14NPTF KC5025	D60
1743775	LT16ER115NPTF KC5025	D60
1743776	LT16ER16ACME KC5025	D54
1743778	LT16ER12ACME KC5025	D54
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1743781	LT22ER6ACME KC5025	D54
1743782	LT22ER5ACME KC5025	D54
1743783	LT16ER16STACME KC5025	D61
1743785	LT16ER12STACME KC5025	D61
1743786	LT16ER10STACME KC5025	D61
1743787	LT16ER8STACME KC5025	D61
1743788	LT16ER6STACME KC5025	D61
1743789	LT22ER5STACME KC5025	D61
1743791	LT16ER2TR KC5025	D61
1743792	LT16ER3TR KC5025	D61
1743793	LT22ER4TR KC5025	D61
1743794	LT22ER5TR KC5025	D61
1743796	LT16ER8RD KC5025	D60
1743797	LT22ER6RD KC5025	D60
1743798	LT16ER10APIRD KC5025	D55
1743799	LT16ER8APIRD KC5025	D55
1743800	LT22ER4API382 KC5025	D55
1743803	LT22ER4API502 KC5025	D55
1743805	LT22ER5BUT75 KC5025	D56
1743810	LT11NL32UN KC5025	D74
1743824	LT16NL16UN KC5025	D74
1743826	LT16NL12UN KC5025	D74
1743827	LT16NL10UN KC5025	D74
1743829	LT11NLA60 KC5025	D66
1743830	LT16NLA60 KC5025	D66
1743831	LT16NLAG60 KC5025	D66
1743832	LT16NLG60 KC5025	D66
1743833	LT22NLN60 KC5025	D66
1743847	LT16NL11W KC5025	D76
1743899	LT11NR32UN KC5025	D74
1743900	LT11NR28UN KC5025	D74
1743901	LT11NR24UN KC5025	D74
1743902	LT11NR20UN KC5025	D74
1743903	LT11NR18UN KC5025	D74
1743904	LT11NR16UN KC5025	D74
1743908	LT16NR32UN KC5025	D74
1743909	LT16NR28UN KC5025	D74
1743910	LT16NR24UN KC5025	D74
1743921	LT16NR20UN KC5025	D74
1743922	LT16NR18UN KC5025	D74
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1743924	LT16NR14UN KC5025	D74
1743925	LT16NR12UN KC5025	D74
1743926	LT16NR10UN KC5025	D74
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1743929	LT16NRAG60 KC5025	D66
1743930	LT16NRG60 KC5025	D66
1743931	LT22NRN60 KC5025	D66
1743932	LT11NRA55 KC5025	D65
1743933	LT16NRA55 KC5025	D65
1743934	LT16NRAG55 KC5025	D65
1743935	LT16NRG55 KC5025	D65
1743936	LT22NRN55 KC5025	D65
1743937	LT11NR19W KC5025	D76
1743938	LT11NR14W KC5025	D76
1743939	LT16NR20W KC5025	D76
1743940	LT16NR19W KC5025	D76
1743942	LT16NR16W KC5025	D76
1743943	LT16NR14W KC5025	D76
1743944	LT16NR12W KC5025	D76
1743945	LT16NR11W KC5025	D76
1743946	LT16NR10W KC5025	D76
1743948	LT16NR8W KC5025	D76
1743949	LT22NR7W KC5025	D76
1743962	LT11NR14BSPT KC5025	D69
1743963	LT16NR14BSPT KC5025	D69
1743964	LT16NR11BSPT KC5025	D69
1743966	LT11NR18NPT KC5025	D72
1743967	LT11NR14NPT KC5025	D72
1743970	LT16NR14NPT KC5025	D72
1743971	LT16NR115NPT KC5025	D72
1743972	LT16NR8NPT KC5025	D72
1743973	LT11NR14NPTF KC5025	D72
1743974	LT16NR14NPTF KC5025	D72
1743978	LT16NR12ACME KC5025	D68
1743979	LT16NR10ACME KC5025	D68
1743980	LT16NR8ACME KC5025	D68
1743981	LT22NR6ACME KC5025	D68
1743982	LT22NR5ACME KC5025	D68
1743983	LT16NR16STACME KC5025	D73
1743984	LT16NR14STACME KC5025	D73
1743985	LT16NR12STACME KC5025	D73
1743986	LT16NR10STACME KC5025	D73
1743987	LT16NR8STACME KC5025	D73
1743988	LT16NR6STACME KC5025	D73
1743991	LT16NR2TR KC5025	D73

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
1743992	LT16NR3TR KC5025	D73
1743993	LT22NR4TR KC5025	D73
1743994	LT22NR5TR KC5025	D73
1743996	LT16NR8RD KC5025	D73
1743997	LT22NR6RD KC5025	D73
1743998	LT16NR10APIRD KC5025	D69
1743999	LT16NR8APIRD KC5025	D69
1744000	LT22NR4API382 KC5025	D68
1744002	LT22NR5API403 KC5025	D68
1744003	LT22NR4API502 KC5025	D68
1744005	LT22NR5BUT75 KC5025	D69
1744006	LT22NR5BUT1 KC5025	D69
1744444	KUAM33	B119, B141, C171, D41–42
1744665	NG3094R KC5010	C154
1746442	CTFPR12CA16	B378
1747635	DCGT070202HP KC5010	B206
1748698	NG3062RK KC5010	C146
1749102	KSEM321R3WD50M	H60
1749103	KSEM330R3WD50M	H60
1749106	KSEM340R3WD50M	H60
1749109	KSEM350R3WD50M	H60
1749110	KSEM360R3WD50M	H60
1749131	KSEM361R3WD50M	H60
1749132	KSEM370R3WD50M	H60
1749133	KSEM380R3WD50M	H60
1749207	CV50RMHTS27M394	J79
1749208	CV50RMHTS32M394	J79
1749210	CV50RMHTS40M413	J79
1749263	CV50BHTS13M295	J79
1749264	CV50BHTS16M295	J79
1749266	CV50BHTS22M295	J79
1749273	CV50RMHTS50M413	J79
1749281	BT50BHTS22075M	J80
1749285	BT50BHTS32080M	J80
1749286	BT50BHTS40080M	J80
1749287	BT50BHTS50080M	J80
1749428	CV50BHTS27M295	J79
1749429	CV50BHTS32M314	J79
1749430	CV50BHTS40M314	J79
1749461	CV50BHTS50M314	J79
1749491	CV50RMHTS13M394	J79
1749492	CV50RMHTS16M394	J79
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1749610	KSEM400R3WD50M	H60
1749648	DFR020204GD KC7140	J84
1749718	420.060	S68, S143–147
1750433	B411A07700 KF1	G100
1752626	420.200	S10, S14, S17, S21, S25, S32, S34, S48, S53, S68, S72, S76, S79, S82, S102–103, S132, S143–144, S146, T17, T50, T72
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1758493	50A03RP90BG15CPM	S144
1758495	80A05RP90BG15C1WPM	S144
1758496	100B06RP90BG15C2WPM	S144
1758497	125B08RP90BG15C2WPM	S144
1758498	160C10RP90BG15C2WPM	S144
1758499	200C12RP90BG15C3WPM	S144
1758500	250C16RP90BG15C4WPM	S144
1758572	80A06RP90BG15C2WPM	S144
1758573	100B08RP90BG15C2WPM	S144
1758574	125B10RP90BG15C2WPM	S144
1758580	50A03R049A32PBG15S3WHPM	S145
1758592	63A04RP90BG15C4WHPM	S146
1758593	80A05RP90BG15C5WHPM	S146
1762261	B411A05600 KF1	G100
1762299	NG3062LK KC5010	C148
1762369	100B06RP90BG15C6WHPM	S146
1762370	125B08RP90BG15C8WHPM	S146
1762381	NG3125RK KC5010	C147
1762451	160C10RP90BG15C10WHPM	S146
1763116	HSK63ASVS4B139M	K80
1763118	HSK63ASVS5B139M	K80
1763375	KM50SVS4B125M	K80
1763376	KM63SVS4B110M	K80
1763378	KM50SVS5B125M	K80
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1763382	KM80SVS6B150M	K80
1764146	NG4250LK KC5010	C148
1764148	NG4250LK KC5025	C148
1764575	NTP3L KC5010	D24
1764576	NTP3L KC5025	D24
1765641	NTC3R8E KC5010	D22
1765732	NTC3R8E KC5025	D22
1765733	NTC3R12E KC5010	D22
1765734	NTC3R12E KC5025	D22
1770917	NT3LCK KC5010	D21
1771602	NG3125RK KT315	C147
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1772157	SDJCRF0808M07Q	B211
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1772160	SDACL1212M11Q	B209
1772173	SDPCN1212M11Q	B212
1772197	STJCRF1212M11Q	B248
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1772222	D25MTTB400	B386
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1772257	H32SDUCR11	B213
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1772747	KSEM125R5WN16M	H59
1772748	KSEM140R5WN16M	H59
1772749	KSEM150R5WN20M	H59
1773924	360.637	I26
1774499	KSEM125R3WN16M	H59
1775033	NG3125RK KC5025	C147
1775034	NG3125LK KC5010	C148
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1782709	50A03R060S63PBG15S3WHSM	S147
1782711	80A05R090S63PBG15S5WHSM	S147
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1782831	TPGT090204LF KC5410	B254
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1783133	CNMG120408FW KT315	B49
1783134	CNMG120412FW KT315	B49
1783135	DNMG110404FW KT315	B78
1783136	DNMG110408FW KT315	B78
1783137	DNMG150404FW KT315	B78
1783138	DNMG150408FW KT315	B78
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1783143	WNMG080404FW KT315	B156
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1783234	CNMG120412FW KC5010	B49
1783237	DNMG150404FW KC5010	B78
1783273	WNMG060408FW KC5010	B156
1783275	WNMG080408FW KC5010	B156
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1785086	NG2M300RK KC5025	C146
1785474	DCGT070204HP KC5010	B206
1785475	DCGT070208HP KC5010	B206
1785477	CCGT060208HP KC5010	B175
1785478	CPGT060208HP KC5010	B188
1785479	CCGT09T308HP KC5010	B175
1785480	CPGT09T308HP KC5010	B188
1785481	TCGT110208HP KC5010	B243
1785482	TPGT110208HP KC5010	B254
1785501	NG2M300LK KC5025	C148
1785713	VBGT160404HP KC5010	B264
1785714	VBGT160408HP KC5010	B264
1785715	CNGP120401 KC5410	B46
1785716	CNGP120402 KC5410	B46
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1785733	DNGP150404 KC5410	B74
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1785735	DNGP150604 KC5410	B74
1785740	TNGP160404 KC5410	B122
1785741	TNGP160408 KC5410	B122
1785746	VNGP160401 KC5410	B143
1785747	VNGP160402 KC5410	B143
1785748	CPGT060202HP KC5410	B188
1785749	CPGT060204HP KC5410	B188
1785750	CPGT060208HP KC5410	B188
1785752	CPGT09T308HP KC5410	B188
1785753	DCGT070208HP KC5410	B206
1785756	TPGT110208HP KC5410	B254
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1792259	KSEM136R1WN16M	H58
1792260	KSEM146R1WN20M	H58
1792262	KSEM130R3WN16M	H59
1792293	KSEM135R3WN16M	H59
1792294	KSEM136R3WN16M	H59
1792295	KSEM140R3WN16M	H59
1792296	KSEM145R3WN20M	H59
1792297	KSEM146R3WN20M	H59
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1792299	KSEM155R3WN20M	H59
1792301	KSEM130R5WN16M	H59
1792302	KSEM136R5WN16M	H59
1792323	KSEM135R5WN16M	H59
1792325	KSEM145R5WN20M	H59
1792326	KSEM146R5WN20M	H59
1792328	KSEM155R5WN20M	H59
1792632	NR3047RK KC5010	C150
1792683	NR3047RK KC5025	C150
1792684	NR3062RK KC5010	C150
1792685	NR3062RK KC5025	C150
1793315	NG3110R KC5025	C154
1794406	NG3M225RK KC5025	C146
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1794631	BGHX15L5PCFRGG KC510M	S148
1794653	BGHX15L5PCTRGG K110M	S148
1794655	BGHX15L5PCTRGG KC510M	S148
1794656	BGHX15L5PCFRGG1W K110M	S149
1794657	BGHX15L5PCFRGG1W KC510M	S149
1794659	BGHX15L5PCTRGG1W K110M	S149
1794660	BGHX15L5PCTRGG1W KC510M	S149
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1795286	160C10RP90SP15C2WFP	S82
1795288	200C12RP90SP15C2WFP	S82
1795485	BGHX15L5PCERGGT KD1410	S148
1795486	BGHX15L5PCERGGT KD1415	S148
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1795790	NT4LK KC5025	D24
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1795796	NTK2L KC5025	D23
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1795799	NJP3010R16 KC5025	D18
1795800	NJP3010L16 KC5025	D18
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1796048	NT2L KC5025	D19
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1796107	NTP3R KC5410	D24
1796109	NTP4R KC5010	D24
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1796112	NTP4L KC5010	D24
1796113	NTP4L KC5025	D24
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1796429	NJK3008R20 KC5010	D18
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1796446	NJK3007R24 KC5025	D18
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1796707	470.233	S17, S21, S25, S32, S34, S48, S53, S68, S72, S76, S79, S82, S102–103, S143–144, S146, T17, T50, T72
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1797159	KSEM135R7WN16M	H61
1797160	KSEM136R7WN16M	H61
1797161	KSEM140R7WN16M	H61
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1797234	KSEM155R10WN20M	H61
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1798605	125B10RP90SP15C2WFP	S82
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1799565	NDC310RDR75 KC5025	D15
1799567	NDC310RDL75 KC5025	D15
1799576	NTB3RA KC5025	D19
1799577	NTB3LA KC5010	D19
1799578	NTB3LA KC5025	D19
1799583	NTB2RB KC5010	D20
1799585	NTB2LB KC5010	D20
1799587	NTB3RB KC5010	D20
1799588	NTB3RB KC5025	D20
1799589	NTB3LB KC5010	D20
1799591	NTB3LB KC5025	D20
1799603	NTB4RB KC5010	D20
1799604	NTB4RB KC5025	D20
1799605	NTB4LB KC5010	D20
1799606	NTB4LB KC5025	D20
1799693	DFR190R2WD32M	J10
1799695	DFR220R3WD32M	J11
1800067	BGHX15L5PCERGGT1W KD1415	S149
1801017	NG3M400LK KC5025	C148
1801125	3.41020R900STF CS5	I16
1801126	3.41220R900STF CS5	I16
1801129	3.41220R900SF KMF	I16
1801779	NR3031R KC5010	C158
1801793	NG3047R KC5010	C154
1802547	CCMT09T304MW KT315	B178
1802549	CCMT09T308MW KT315	B178
1802551	WNGG080408LF KC5010	B154
1802564	CCMT09T304MW KC5010	B178
1802566	CCMT09T308MW KC5010	B178
1802567	CPMT09T308MW KC5010	B191
1802568	CCMT120404MW KC5010	B178
1802569	CCMT120408MW KC5010	B178
1802594	80A07RP70SP15C1WFP	S79
1802595	125B12RP70SP15C2WFP	S79
1802596	160C16RP70SP15C4WFP	S79
1802810	SPHX15T6PCERGP KCK15	S83
1802813	CCMT060202FW KT315	B176
1802843	CPMT060202FW KT315	B189
1802844	CCMT060204FW KT315	B176
1802845	CPMT060204FW KT315	B189
1802846	CCMT060208FW KT315	B176
1802886	SPHX15T6PCERGP4S KCK15	S83
1802893	SPHX15T6PCFRGN1W KCK15	S84
1802971	CPMT060208FW KT315	B189
1802983	CCMT09T304FW KT315	B176
1802984	CPMT09T304FW KT315	B189
1802986	CCMT09T308FW KT315	B176
1802991	CPMT09T308FW KT315	B189
1802992	CCMT060202FW KC5010	B176
1803013	CPMT060202FW KC5010	B189
1803014	CCMT060204FW KC5010	B176
1803015	CPMT060204FW KC5010	B189
1803016	CCMT060208FW KC5010	B176
1803018	CPMT060208FW KC5010	B189
1803020	CCMT09T304FW KC5010	B176
1803021	CPMT09T304FW KC5010	B189
1803022	CCMT09T308FW KC5010	B176
1803023	CPMT09T308FW KC5010	B189
1803284	NTC3MR150E KC5010	D21
1803285	NTC3MR150E KC5025	D21
1803292	NTC3MR200E KC5010	D21
1803924	NG2062L KC5025	C155
1803995	H50LSER16	D82
1803997	H40LSER22	D82
1803999	H50LSER22	D82
1804265	SPHX1205ZCELGP KC520M	S73
1804638	NG2062L KC5010	C155
1804784	DFT05T308HP KMF	J87
1804785	DFT06T308HP KMF	J87
1804790	DFT070408HP KMF	J87
1804791	DFT090508HP KMF	J87
1804829	DFT05T308HP KC7140	J87
1804830	DFT06T308HP KC7140	J87
1804832	DFT070408HP KC7140	J87
1805013	DFT090508HP KC7140	J87
1805750	F3AA0300AWS45 K600	P121
1805808	F3BA0600BWS40 K600	P123
1805825	F3BA0800BWM40C160 K600	P124
1805929	F3AA0400AWS45 K600	P121
1805930	F3AA0500AWS45 K600	P121
1805931	F3AA0600AWS45 K600	P121
1805932	F3AA0800AWM45 K600	P121
1805983	F3AA1000AWL45 K600	P121
1805984	F3AA1200AWL45 K600	P121
1805985	F3AA1400AWL45 K600	P121
1805986	F3AA1600AWL45 K600	P121
1805987	F3AA1800AWL45 K600	P121
1805988	F3AA2000AWX45 K600	P121
1806435	DFR030204GD KC7140	J84
1806437	DFR040304GD KC7140	J84
1807047	F3BA0800BWM40 K600	P123
1807048	F3BA1000BWM40 K600	P123
1807049	F3BA1200BWL40 K600	P123
1807050	F3BA1600BWL40 K600	P123
1807051	F3BA2000BWX40 K600	P123
1807052	F3BA2500BWX40 K600	P123
1807220	CCGT09T304LF KC5410	B175
1807346	F3BA1000BWM40C220 K600	P124
1807347	F3BA1200BWL40C260 K600	P124
1807348	F3BA1600BWL40C320 K600	P124
1807349	F3BA2000BWX40C380 K600	P124
1807350	F3BA2500BWX40C450 K600	P124
1808487	NG2031RK KC5010	C146
1808488	NG4189RK KC5010	C147
1808491	NR3047LK KC5025	C150
1808583	NGD3125RK KC5025	C149
1809057	HSK100AHTS40085M	J81
1809059	HSK100AHTS50090M	J81
1810334	DFR170R2WD32M	J10
1810335	DFR175R2WD32M	J10
1810336	DFR180R2WD32M	J10
1810337	DFR185R2WD32M	J10
1810338	DFR195R2WD32M	J10
1810339	DFR200R2WD32M	J10
1810340	DFR205R2WD32M	J10
1810341	DFR210R2WD32M	J10
1810342	DFR220R2WD32M	J10
1810363	DFR230R2WD32M	J10
1810364	DFR240R2WD32M	J10
1810365	DFR165R3WD32M	J11
1810366	DFR175R3WD32M	J11
1810367	DFR185R3WD32M	J11
1810368	DFR190R3WD32M	J11
1810369	DFR195R3WD32M	J11
1810370	DFR205R3WD32M	J11
1810371	DFR210R3WD32M	J11
1810372	DFR230R3WD32M	J11
1810373	DFR240R3WD32M	J11
1816891	LT11NR14UNJ KC5025	D75
1816983	LT11NR16UNJ KC5025	D75
1816990	LT11NR18UNJ KC5025	D75
1817050	LT16NR16UNJ KC5025	D75
1817054	LT16NR12UNJ KC5025	D75
1817487	LT22ER5API403 KC5010	D55
1817512	LT22ER4API502 KC5010	D55
1817533	LT22ER4API503 KC5010	D55
1817570	NF3125LK KC5025	C159
1817571	NF3125RK KC5025	C159
1817572	CNMG120404FP KC5010	B49
1817588	NFD3125LK KC5025	C160
1817614	CNMG120408FP KC5010	B49
1817616	DNMG110404FP KC5010	B77
1817617	DNMG110408FP KC5010	B77
1817618	NG3189RK KC5025	C147
1817619	NG3M100LK KC5025	C148
1817620	NG3M100RK KC5025	C146
1817623	NG3M120LK KC5025	C148
1817626	NG3M120RK KC5025	C146
1817627	NG3M150LK KC5025	C148
1817629	NG3M150RK KC5025	C146
1817630	NG3M175LK KC5025	C148
1817631	NG3M175RK KC5025	C146
1817632	NG3M200LK KC5025	C148
1817635	NG3M200RK KC5025	C146
1817636	NG3M220LK KC5025	C148
1817637	NG3M220RK KC5025	C146
1817640	NG3M225RK KC5010	C146
1817658	NFD3125RK KC5025	C160

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
1817659	NFD3125RKI KC5025	C160
1817662	NFD4189LK KC5025	C160
1817667	420.080	S143–144
1817675	NG3M250LK KC5025	C148
1817676	NG3M250RK KC5025	C146
1817678	NG3M275LK KC5025	C148
1817679	NG3M275RK KC5010	C147
1817680	NG3M275RK KC5025	C147
1817681	NG3M300LK KC5010	C148
1817682	NG3M300LK KC5025	C148
1817699	NG1047L KC5025	C155
1817700	NG1062L KC5025	C155
1817702	NG1094L KC5025	C155
1817703	NG3M300RK KC5010	C147
1817704	NG3M300RK KC5025	C147
1817705	NG3M320LK KC5025	C148
1817706	NG3M320RK KC5025	C147
1817707	NG3M325LK KC5025	C148
1817708	NG3M325RK KC5025	C147
1817709	NG3M350LK KC5025	C148
1817710	NG3M350RK KC5025	C147
1817713	NG2031LK KC5010	C147
1817718	NG2031LK KC5025	C147
1817719	NG2031RK KC5025	C146
1817720	NG2041L KC5025	C155
1817721	NG2041R KC5025	C154
1817722	NG2047LK KC5010	C147
1817740	NG3M400RK KC5010	C147
1817741	NG3M400RK KC5025	C147
1817965	NG3M425RK KC5025	C147
1817970	NG4125RK KC5010	C147
1817972	NG4189LK KC5010	C148
1817975	NG2047LK KC5025	C147
1817977	NG2047RK KC5010	C146
1817979	NG2047RK KC5025	C146
1817993	NG4189LK KC5025	C148
1817994	NG4189RK KC5025	C147
1818000	NG4250RK KC5010	C147
1818001	NG4250RK KC5025	C147
1818003	NG2058R KC5025	C154
1818005	NG2062LK KC5010	C147
1818006	NG2062LK KC5025	C147
1818007	NG2062RK KC5010	C146
1818008	NG2062RK KC5025	C146
1818009	NG2094LK KC5010	C147
1818010	NG2094LK KC5025	C147
1818011	NG2094RK KC5010	C146
1818037	NG2094RK KC5025	C146
1818039	NG2125LK KC5010	C148
1818041	NG2125LK KC5025	C148
1818042	NG2125RK KC5010	C146
1818050	NG4M400RK KC5010	C147
1818051	NG4M400RK KC5025	C147
1818052	NG4M450LK KC5025	C148
1818054	NG4M500LK KC5010	C148
1818073	NG2125RK KC5025	C146
1818075	NG2M080LK KC5025	C147
1818077	NG2M080RK KC5025	C146
1818078	NG2M100LK KC5010	C147
1818079	NG2M100LK KC5025	C147
1818080	NG2M100RK KC5010	C146
1818081	NG2M100RK KC5025	C146
1818082	NG2M120LK KC5010	C147
1818093	NG2M120LK KC5025	C147
1818094	NG2M120RK KC5010	C146
1818095	NG2M120RK KC5025	C146
1818097	NG2M140LK KC5025	C147
1818098	NG2M140RK KC5010	C146
1818099	NG2M140RK KC5025	C146
1818110	NGD3062LK KC5010	C149
1818111	NGD3062LK KC5025	C149
1818112	NGD3062RK KC5010	C149
1818113	NGD3062RK KC5025	C149
1818114	NGD3094LK KC5010	C149
1818115	NGD3094LK KC5025	C149
1818116	NGD3094RK KC5010	C149
1818117	NGD3094RK KC5025	C149
1818118	NGD3125LK KC5010	C149
1818119	NGD3125LK KC5025	C149
1818120	NGD3125RK KC5010	C149
1818121	NGD3189LK KC5010	C149
1818122	NGD3189LK KC5025	C149
1818262	NGD3189RK KC5010	C149
1818352	NPD3012RK KC5010	C151
1818353	NGD3189RK KC5025	C149
1818354	NGD4125LK KC5010	C149
1818355	NGD4125LK KC5025	C149
1818356	NGD4125RK KC5010	C149
1818357	NGD4125RK KC5025	C149
1818359	NGD4189LK KC5010	C149
1818360	NGD4189LK KC5025	C149
1818361	NGD4189RK KC5010	C149
1818362	NGD4189RK KC5025	C149
1818366	NG2M300RK KC5010	C146
1818368	NG2M325RK KC5025	C146
1818369	NG3047LK KC5010	C148
1818370	NG3047LK KC5025	C148
1818371	NG3062LK KC5025	C148
1818372	NG3072LK KC5010	C148
1818374	NGD4250LK KC5025	C149
1818375	NGD4250RK KC5010	C149
1818376	NGD4250RK KC5025	C149
1818425	NR2031L KC5025	C158
1818426	NR2031R KC5025	C158
1818434	NP2002RK KC5010	C151
1818435	NP2002RK KC5025	C151
1818437	NP3002RK KC5010	C151
1818439	NP3012RK KC5025	C151
1818440	NPD2002RK KC5010	C151
1818444	NRD4125L KC5025	C159
1818455	NG2M170LK KC5010	C147
1818456	NG2M170LK KC5025	C147
1818457	NG2M170RK KC5010	C146
1818458	NR3031LK KC5010	C150
1818459	NR3031LK KC5025	C150
1818460	NR3031RK KC5010	C150
1818461	NG2M170RK KC5025	C146
1818462	NR3031RK KC5025	C150
1818473	NR3047LK KC5010	C150
1818474	NG2M175LK KC5025	C147
1818476	NG2M195LK KC5010	C147
1818478	NR3062LK KC5010	C150
1818479	NG2M195RK KC5010	C146
1818480	NG2M195RK KC5025	C146
1818481	NR3062LK KC5025	C150
1818482	NG2M200LK KC5010	C147
1818483	NG2M200LK KC5025	C147
1818484	NG2M200RK KC5010	C146
1818485	NG2M200RK KC5025	C146
1818487	NG2M220RK KC5025	C146
1818489	NG2M225LK KC5025	C147
1818491	NG2M225RK KC5025	C146
1818492	NG2M250LK KC5025	C147
1818493	NG2M250RK KC5025	C146
1818494	NG2M275LK KC5010	C147
1818497	NG2M275RK KC5025	C146
1818498	NG2M300LK KC5010	C148
1818503	NG3072LK KC5025	C148
1818504	NG3072RK KC5010	C146
1818505	NG3072RK KC5025	C146
1818506	NG3078LK KC5010	C148
1818507	NG3078LK KC5025	C148
1818508	NG3078RK KC5010	C146
1818509	NG3078RK KC5025	C146
1818714	SPHX15T6ZCERGP KCK15	S80
1818721	SPHX15T6ZCTRGPK KY3500	S80
1818755	SPHX15T6ZCERGP4S KCK15	S80
1818766	NG3094LK KC5010	C148
1818768	NG3094LK KC5025	C148
1818769	NG3094RK KC5025	C146
1818824	NG3105R KC5025	C154
1818825	NG3110L KC5025	C155
1818827	NR3078LK KC5010	C150
1818828	NR3078LK KC5025	C150
1818829	NR3078RK KC5010	C150
1818831	NR3094L KC5010	C158
1818833	NR3094L KC5025	C158
1818834	NR3094R KC5010	C158
1818835	NR3094R KC5025	C158
1818836	NR4062LK KC5010	C150
1818838	NR4062RK KC5010	C150
1818840	NR4094LK KC5010	C150
1818841	NR4094LK KC5025	C150
1818842	NR4094RK KC5010	C150
1818854	NR4125LK KC5010	C150
1818856	NR4125RK KC5010	C150
1818857	NR4125RK KC5025	C150
1818858	NRD3031L KC5010	C159
1818859	NRD3031L KC5025	C159
1818860	NRD3031R KC5010	C159
1818861	NRD3031R KC5025	C159
1818862	NRD3062L KC5010	C159
1818863	NRD3062L KC5025	C159
1818864	NRD3062R KC5010	C159
1818865	NRD3062R KC5025	C159
1818866	NRD4062L KC5025	C159
1818874	NU3094L KC5025	C161
1818875	NU3094R KC5025	C161
1818876	NU3125L KC5025	C161
1818878	NU3156L KC5025	C161
1818891	NG3156LK KC5010	C148
1818892	NG3156LK KC5025	C148
1818913	NG3156RK KC5010	C147
1818914	NG3156RK KC5025	C147
1818916	NG3178R KC5025	C154
1818917	NG3185L KC5025	C155
1818919	NG3189LK KC5010	C148
1818920	NG3189LK KC5025	C148
1818921	NG3189RK KC5010	C147
1819108	SPHX15T6ZCTRGP4SK KY3500	S80
1819110	SPHX15T6ZCFRGN1W KCK15	S81
1819168	SPHX15T6PCTRGPK KY3500	S83
1819171	SPHX15T6PCFRGN1WK KY3500	S84
1819206	CNMG120404FP KT315	B49
1819207	CNMG120408FP KT315	B49
1819211	DNMG110408FP KT315	B77
1819335	DNMG150404FP KT315	B77
1819336	DNMG150408FP KT315	B77
1819340	DNMG150612FP KT315	B77
1819354	TNMG160404FP KT315	B124
1819355	TNMG160408FP KT315	B124
1819357	VNMG160404FP KT315	B145
1819358	VNMG160408FP KT315	B145
1819440	DNMG150404FP KC5010	B77
1819441	DNMG150408FP KC5010	B77
1819451	SPHX1205PCTRGPB KTPK20	S77
1819494	DNMG150604FP KC5010	B77
1819495	DNMG150608FP KC5010	B77
1819500	TNMG160404FP KC5010	B124
1819501	TNMG160408FP KC5010	B124
1819502	TNMG160412FP KC5010	B124
1819513	VNMG160404FP KC5010	B145
1819514	VNMG160408FP KC5010	B145
1819515	WNMG060404FP KC5010	B156
1819516	WNMG060408FP KC5010	B156
1819517	WNMG080404FP KC5010	B156
1819518	WNMG080408FP KC5010	B156
1819519	WNMG080412FP KC5010	B156
1819846	SPHX1205PCFRGN1WB KCK15	S78
1819848	SPHX1205PCFRGN1WB KC725M	S78
1819849	SPHX1205PCFRGN1WB KC520M	S78
1819850	SPHX1205PCFRGN1WB KTPK20	S78
1819852	SPHX1205PCFRGN1WBK KY3500	S78
1819853	SPHX1205ZCTRGP KTPK20	S73
1819858	SPHX1205ZCFRGN1W KCK15	S74
1819861	SPHX1205ZCFRGN1W KC520M	S74
1819864	SPHX1205ZCFRGN1WK KY3500	S74
1824861	TCMT16T308LF KC5010	B244
1824882	TCMT16T304LF KC5010	B244
1829218	TNMG160404FW KT315	B125
1829219	TNMG160408FW KT315	B125
1829220	TNMG160404FW KC5010	B125
1831439	841.142.200	K118–120
1831441	841.142.320	K118–119
1831442	841.142.420	K118–119
1831590	KM63XMZKR5060Y	K87
1831749	NG3062L KC5010	C155
1831750	NG4250R KC5010	C154
1832293	CNMG090308MP KC5010	B51
1832294	CNMG120404MP KC5010	B51
1832295	CNMG120408MP KC5010	B51
1832296	CNMG120412MP KC5010	B51
1832297	CNMG120416MP KC5010	B51
1832298	CNMG160608MP KC5010	B51
1832299	CNMG160612MP KC5010	B51
1832301	CNMG160616MP KC5010	B51
1832302	CNMG190608MP KC5010	B51
1832313	CNMG190612MP KC5010	B51
1832315	CNMG190616MP KC5010	B51
1832316	DNMG110408MP KC5010	B79
1832318	DNMG150404MP KC5010	B79
1832319	DNMG150408MP KC5010	B79
1832321	DNMG150412MP KC5010	B79
1832322	DNMG150604MP KC5010	B79
1832323	DNMG150608MP KC5010	B79
1832324	DNMG150612MP KC5010	B79
1832325	SNMG120408MP KC5010	B98
1832327	SNMG120412MP KC5010	B98
1832330	SNMG150612MP KC5010	B98
1832353	SNMG190616MP KC5010	B98
1832354	TNMG160404MP KC5010	B125
1832355	TNMG160408MP KC5010	B125
1832356	TNMG160412MP KC5010	B125
1832357	TNMG220408MP KC5010	B125
1832358	TNMG220412MP KC5010	B125
1832359	TNMG220416MP KC5010	B125
1832360	VNMG160404MP KC5010	B146
1832361	VNMG160408MP KC5010	B146
1832373	VNMG160412MP KC5010	B146
1832374	WNMG060404MP KC5010	B157
1832376	WNMG060408MP KC5010	B157
1832378	WNMG080408MP KC5010	B157
1832379	WNMG080412MP KC5010	B157
1833500	SPHX1205PCERGNT1WB KB1340	S78, S84
1833501	SPHX1205ZCERGNT1W KB1340	S74
1833766	B411A06100 KF1	G100
1834274	R67FBHS06	K136
1834295	SNMG120412FW KT315	B98
1834819	170.294	H58, H65
1836470	170.295	H65
1836471	170.296	H65
1840501	KCGX110304R15 KC5410	E31
1841355	VCGR160416 KC5010	E34
1841781	MS1336	V56, V72
1841782	MS2038	S41, S60, S62, T33, T50, T72, T102, V49, V56, V60, V64, V72, V78
1841856	MS1556	T98, U32–34, V147
1843976	RCMT1204M0 KC5010	B224
1845216	TCMT110204LF KC5010	B244
1845218	CCMT120408LF KC5010	B177
1845219	TPMT110204LF KC5010	B255
1845227	CCMT09T304LF KC5010	B177
1845230	SCMT09T304LF KC5010	B230
1847935	CNGA120412T01020FW KY3500	B293
1848593	SPGX060304RHP KC7140	J89
1848597	SPGX070304RHP KC7140	J89
1848601	SPPX09T308RHP KC7140	J89
1848605	SPPX120408RHP KC7140	J89
1848655	ICSN443 K9	B58–60
1849051	DCGR150404 KC5010	E28
1849052	DCGR150408 KC5010	E28
1849053	DCGR150412 KC5010	E28
1849054	KCGX110301R15 KC5010	E31
1849055	KCGX110301L15 KC5010	E31
1849056	KCGX110302R15 KC5010	E31
1849058	KCGX110304R15 KC5010	E31
1849059	KCGX110304L15 KC5010	E31
1849060	KCGX110308R15 KC5010	E31
1849243	KCGX110308L15 KC5010	E31
1849249	KNGX150404R20 KC5010	E30
1849250	KNGX150404L20 KC5010	E30
1849251	KNGX150408R20 KC5010	E30
1849252	KNGX150408L20 KC5010	E30
1849274	KCGR110304R08 KC5010	E29
1849275	KCGR110304L08 KC5010	E29
1849279	VBMR110304 KC5010	E32
1849281	VCGR160402 KC5010	E34
1849301	VCGR160404 KC5010	E34
1849302	VCGR160408 KC5010	E34
1849323	VCGR160412 KC5010	E34
1849846	KCGR110304L08 KT315	E29
1849866	KCGR110308R08 KT315	E29
1849869	KCGX110302R15 KT315	E31
1849871	KCGX110304R15 KT315	E31
1849874	KCGX110308R15 KT315	E31

Dizin

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
1849885	VBMR110304 KT315	E32
1849903	KCGR110308L08 KC5025	E29
1849906	VBMR110304 KC5025	E32
1849908	VCGR160402 KC5025	E34
1849909	VCGR160404 KC5025	E34
1849910	VCGR160408 KC5025	E34
1849983	KCGX110301R15 KC5025	E31
1849998	KCGX110304R15 KC5025	E31
1850011	KCGX110304L15 KC5025	E31
1850012	KCGX110308R15 KC5025	E31
1850067	KCGR110304R08 KC5025	E29
1850070	KCGR110304L08 KC5025	E29
1851263	CNGA120408T01020FW KY3500	B293
1851264	CNGA120416T01020FW KY3500	B293
1851265	WNGA080408T01020FW KY3500	B294
1851268	CNGX120708T01020FW KY3500	B295
1851269	CNGX120712T01020FW KY3500	B295
1851270	CNGX120716T01020FW KY3500	B295
1851304	SCGN090408EFW KY3500	B299
1852181	CS412	B168, B370
1854201	CPMT050204LF KC5010	B190
1854340	HTSR040R025M	J67
1854342	HTSR046R028M	J67
1854378	B514S08000 KC7030	J68
1854379	B514S10000 KC7030	J68
1855439	NG3M200RK KT315	C146
1855476	NG2031RK KT315	C146
1855479	NG2047RK KT315	C146
1855504	NG2062RK KT315	C146
1855506	NG2094RK KT315	C146
1855508	NG2125RK KT315	C146
1855556	NG2M200RK KT315	C146
1855576	NG3062RK KT315	C146
1855577	NG3094LK KT315	C148
1855578	NG3094RK KT315	C146
1855910	SPHX1205ZCSRGP KCK15	S73
1857709	420.102	S72
1859604	VBMT160404LF KT315	B265
1860701	190.458	J67
1860827	NG3088L KC5010	C155
1861004	FAS100302GD KC7015	H33
1861493	H32PCLNR12	B69
1861496	H32PDUNR15	B91
1861500	H40PCLNR12	B69
1861501	H40PCLNL12	B69
1861517	H50PCLNR12	B69
1861518	H50PCLNL12	B69
1861519	H50PDUNR15	B91
1861520	H50PDUNL15	B91
1863407	552.210	B369, B374
1864501	VCMR160404 KC5010	E33
1864502	VCMR160408 KC5010	E33
1864543	VCMR160404 KC5025	E33
1864544	VCMR160408 KC5025	E33
1864562	VCMR160404 KT315	E33
1864583	VCMR160408 KT315	E33
1864815	SNHX1102PZTNGP KC725M	U15
1864816	SNHX11T3PZTNGP KC725M	U15
1864817	SNHX1203PZTNGP KC725M	U15
1864825	SNHX12L5PZTNGP KC725M	U15
1864829	SNHX11T3PZFNGE KC510M	U14
1864830	SNHX1203PZFNGE KC510M	U14
1864831	SNHX12L5PZFNGE KC510M	U14
1865174	SPGR090308K KC5010	B169
1865210	TPGR110304K KC5010	B171
1865214	TPGR160304K KC5010	B171
1865218	TPGR160308K KC5010	B171
1865436	SPGN090304 KC5010	B169
1865452	SPGN090308 KC5010	B169
1865483	SPGN120304 KC5010	B169
1865484	SPGN120308 KC5010	B169
1865486	SPGN120316 KC5010	B169
1865531	TPGN110304 KC5010	B171
1865532	TPGN110308 KC5010	B171
1865533	TPGN160302 KC5010	B171
1865534	TPGN160304 KC5010	B171
1865535	TPGN160308 KC5010	B171
1865536	TPGN160312 KC5010	B171
1865537	TPGN160316 KC5010	B171
1865538	TPGN220404 KC5010	B171
1865539	TPGN220408 KC5010	B171
1865540	TPGN220412 KC5010	B171
1865541	TPGN220416 KC5010	B171
1865870	RCMK040300 KC5010	E63
1865871	RCMK060400 KC5010	E63
1865953	RCMK090700 KC5010	E63
1865954	RCMK120800 KC5010	E63
1865955	RCGK040300HP KC5010	E63
1865956	RCGK060400HP KC5010	E63
1865959	RCGV060400 KC5010	B166
1865960	RCGV090700 KC5010	B166
1865961	RCGV120700 KC5010	B166
1865962	RPGV090700 KC5010	B167
1865999	RCMT0602M0 KC5010	B224
1866000	RCMT0803M0 KC5010	B224
1866001	RCMT10T3M0 KC5010	B224
1866014	RCMT1605M0 KC5010	B224
1866015	RCMT2006M0 KC5010	B224
1866017	RCMT060200 KC5010	B224
1866019	RCMT09T300 KC5010	B224
1866310	CNMX120712T02020 KY3500	B295
1866311	CNMX120716T02020 KY3500	B295
1866356	SNMX120712T02020 KY3500	B298
1866357	SNMX120716T02020 KY3500	B298
1866358	SNMX150716T02020 KY3500	B298
1866564	CCGT0602X0LF KC5025	B175
1866565	CCGT060201LF KC5025	B175
1866566	CCGT060202LF KC5025	B175
1866567	CCGT060204LF KC5025	B175
1866569	CCGT09T3X0LF KC5025	B175
1866570	CCGT09T301LF KC5025	B175
1866571	CCGT09T302LF KC5025	B175
1866572	CCGT09T304LF KC5025	B175
1866593	CCGT09T308LF KC5025	B175
1866616	CCGT09T308LF K313	B175
1866617	CPGT060201LF KC5025	B189
1866618	CPGT060202LF KC5025	B189
1866619	CPGT060204LF KC5025	B189
1866620	CPGT060208LF KC5025	B189
1866621	CPGT09T302LF KC5025	B189
1866622	CPGT09T304LF KC5025	B189
1866623	CPGT09T308LF KC5025	B189
1866625	CPGT060201LF KC5410	B189
1866638	TPGT090204LF KC5025	B254
1866640	TPGT110202LF KC5025	B254
1866641	TPGT110204LF KC5025	B254
1866643	DCGT0702X0LF KC5025	B206
1866646	DCGT070201LF KC5025	B206
1866647	DCGT11T301LF KC5025	B206
1866648	DCGT11T3X0LF KC5025	B206
1866650	DCGT070201LF KC5010	B206
1866651	DCGT11T301LF KC5010	B206
1866652	DCGT150408LF KC5010	B206
1866653	TPGT16T304LF KC5025	B254
1866655	TPGT110208LF KC5010	B254
1866661	TPGT110204LF KC5410	B254
1866665	DPGT070204LF KC5025	B214
1866667	DPGT11T302LF KC5025	B214
1866668	DPGT11T304LF KC5025	B214
1866674	TPGT16T308LF KC5410	B254
1866675	VBGT1103X0LF KC5025	B264
1866676	VBGT110301LF KC5025	B264
1866677	VBGT110302LF KC5025	B264
1866678	VBGT110304LF KC5025	B264
1866679	VBGT1604X0LF KC5025	B264
1866681	VBGT160401LF KC5025	B264
1866682	VBGT160402LF KC5025	B264
1866683	VBGT160404LF KC5025	B264
1866685	VBGT110302LF KC5010	B264
1866686	VBGT110304LF KC5010	B264
1866754	VBGT160401LF KC5010	B264
1866755	VBGT160402LF KC5010	B264
1866756	VBGT160404LF KC5010	B264
1866757	VBGT110301LF KC5410	B264
1866761	VBGT160402LF KC5410	B264
1866762	VBGT160404LF KC5410	B264
1866781	DPGT070201LF KC5010	B214
1866782	SPGT09T304LF KC5025	B238
1866793	SPGT09T308LF KC5025	B238
1866795	SPGT09T304LF KC5010	B238
1866796	SPGT09T308LF KC5010	B238
1866801	TCGT110201LF KC5025	B243
1866802	TCGT110204LF KC5025	B243
1866955	CCGT060202HP KC5025	B175
1866956	CCGT060204HP KC5025	B175
1866959	CCGT09T302HP KC5025	B175
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1866961	CCGT09T308HP KC5025	B175
1866994	CCGT120404HP KC5025	B175
1866996	CPGT060202HP KC5025	B188
1866997	CPGT060204HP KC5025	B188
1867001	CPGT09T302HP KC5025	B188
1867002	CPGT09T304HP KC5025	B188
1867004	DCGT070202HP KC5025	B206
1867006	DCGT070204HP KC5025	B206
1867007	DCGT070208HP KC5025	B206
1867009	DCGT11T302HP KC5025	B206
1867010	DCGT11T304HP KC5025	B206
1867011	DCGT11T308HP KC5025	B206
1867028	RCGT10T3M0HP KC5025	B222
1867029	RCGT1204M0HP KC5025	B222
1867031	TCGT110204HP KC5025	B243
1867034	TCGT16T304HP KC5025	B243
1867035	TCGT16T308HP KC5025	B243
1867036	TPGT110202HP KC5025	B254
1867037	TPGT110204HP KC5025	B254
1867042	TPGT16T304HP KC5025	B254
1867046	VBGT160404HP KC5025	B264
1867049	VBGT160408HP KC5025	B264
1867050	VBGT110304HP KC5025	B264
1867051	VBGT110302HP KC5025	B264
1867060	VBGT110304HP KC5010	B264
1867061	VBGT110302HP KC5010	B264
1867212	SSP025016M	B58–60, B66, B85, B89–90, B105–107, B132, B137, B149–150, B152, B161, B163
1867278	KMSP415IP	B58–60, B66, B85, B89–90, B105–107, B132, B161, B163
1867314	KMSP515IP	B58–60, B66, B105
1867321	KLM46L15IP	B58–60, B85, B105–107, B132
1867333	KLM4615IP	B58–60, B105, B107, B161
1867338	KLM58L15IP	B58–60, B105
1867620	CNGP120408 KC5010	B46
1868190	CPGH09T301 KC5010	B188
1868253	CPGH09T301 KC5025	B188
1868254	CPGH09T301 KT315	B188
1868255	CPGH09T302 KC5010	B188
1868257	CPGH09T302 KC5025	B188
1868419	CNGP120401 KC5010	B46
1868420	CNGP120402 KC5010	B46
1868421	CNGP120404 KC5010	B46
1868443	CNGP120412 KC5010	B46
1868444	CNGP120416 KC5010	B46
1868451	DNGP150401 KC5010	B74
1868452	DNGP150402 KC5010	B74
1868453	DNGP150404 KC5010	B74
1868454	DNGP150408 KC5010	B74
1868456	DNGP150608 KC5010	B74
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1868458	SNGP120408 KC5010	B96
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1868462	TNGP160404 KC5010	B122
1868463	TNGP160408 KC5010	B122
1868464	VNGP160401 KC5010	B143
1868465	VNGP160402 KC5010	B143
1868466	VNGP220404 KC5010	B143
1868467	VNGP220408 KC5010	B143
1869820	CCMT060202LF KC5010	B177
1869821	CCMT060204LF KC5010	B177
1869894	CPGH09T304 KC5010	B188
1869896	CPGH09T304 KC5025	B188
1869899	CPGH09T304 KT315	B188
1869901	CPGH09T308 KC5010	B188
1869903	CPGH09T308 KC5025	B188
1869932	CCMT060202LF KT315	B177
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1869965	CCMT060208LF KT315	B177
1869966	CCMT09T302LF KT315	B177
1869967	CCMT09T304LF KT315	B177
1869968	CCMT09T308LF KT315	B177
1869973	DCMT070204LF KT315	B207
1869974	DCMT11T302LF KT315	B207
1869975	DCMT11T304LF KT315	B207
1869976	DCMT11T308LF KT315	B207
1869980	SCMT09T304LF KT315	B230
1869996	TCMT110204LF KT315	B244
1869998	TCMT110208LF KT315	B244
1870000	TCMT16T304LF KT315	B244
1870002	TCMT16T308LF KT315	B244
1870021	CNGG120401LF KC5010	B46
1870022	CNGG120402LF KC5010	B46
1870036	VBMT110302LF KT315	B265
1870037	VBMT110304LF KT315	B265
1870039	VBMT160402LF KT315	B265
1870043	CNGG120404LF KC5010	B46
1870044	CNGG120408LF KC5010	B46
1870069	CNGG120412LF KC5010	B46
1870072	DNGG150402LF KC5010	B74
1870113	DNGG150404LF KC5010	B74
1870114	DNGG150408LF KC5010	B74
1870323	VBMT160408LF KT315	B265
1870324	CPMT050204LF KT315	B190
1870326	CPMT060204LF KT315	B190
1870328	CPMT09T302LF KT315	B190
1870329	CPMT09T304LF KT315	B190
1870333	CPMT09T308LF KT315	B190
1870335	DPMT070204LF KT315	B215
1870337	DPMT11T304LF KT315	B215
1870339	SPMT09T304LF KT315	B238
1870342	TPMT090204LF KT315	B255
1870365	TPMT110208LF KT315	B255
1870366	TPMT16T304LF KT315	B255
1870367	TPMT16T308LF KT315	B255
1870619	TNGG160402LF KC5010	B122
1870983	CCMT060208LF KC5010	B177
1870984	CCMT09T302LF KC5010	B177
1870986	CCMT09T308LF KC5010	B177
1870987	CCMT120404LF KC5010	B177
1870990	CPMT050202LF KC5010	B190
1870992	CPMT060202LF KC5010	B190
1870998	DPMT11T302LF KC5010	B215
1870999	DPMT11T304LF KC5010	B215
1871000	DPMT11T308LF KC5010	B215
1871002	SCMT09T308LF KC5010	B230
1871013	CPMT060204LF KC5010	B190
1871014	CPMT060208LF KC5010	B190
1871015	CPMT09T302LF KC5010	B190
1871016	CPMT09T304LF KC5010	B190
1871017	CPMT09T308LF KC5010	B190
1871019	DCMT11T312LF KC5010	B207
1871020	DCMT150404LF KC5010	B207
1871021	DCMT150408LF KC5010	B207
1871022	DPMT070202LF KC5010	B215
1871033	DPMT070204LF KC5010	B215
1871035	VBMT110308LF KC5010	B265
1871036	VBMT160402LF KC5010	B265
1871038	WPMT040204LF KC5010	B272
1871039	WPMT06T304LF KC5010	B272
1871040	WPMT06T308LF KC5010	B272
1871041	WCMT040204LF KC5010	B270
1871042	WCMT06T308LF KC5010	B270
1871083	SCMT120404LF KC5010	B230
1871084	SCMT120408LF KC5010	B230
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1871087	SPMT09T308LF KC5010	B238
1871088	TCMT110202LF KC5010	B244
1871090	TCMT110208LF KC5010	B244
1871091	TCMT16T302LF KC5010	B244
1871104	TCMT16T312LF KC5010	B244
1871105	TCMT220408LF KC5010	B244
1871106	TPMT090202LF KC5010	B255
1871107	TPMT090204LF KC5010	B255
1871108	TPMT110202LF KC5010	B255
1871110	TPMT110208LF KC5010	B255
1871111	TPMT16T304LF KC5010	B255
1871112	TPMT16T308LF KC5010	B255
1871134	TPMT220408LF KC5010	B255
1871163	CCMT060204UF KC5010	B178
1871164	CCMT09T302UF KC5010	B178
1871165	CCMT09T304UF KC5010	B178
1871166	CCMT09T308UF KC5010	B178
1871167	CPMT060204UF KC5010	B191
1871168	CPMT09T304UF KC5010	B191

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Sipariş No.	Katalog No.	Sayfa(lar):
1871169	DCMT070204UF KC5010	B208
1871170	DCMT11T302UF KC5010	B208
1871171	DCMT11T304UF KC5010	B208
1871172	DCMT11T308UF KC5010	B208
1871193	DPMT070204UF KC5010	B216
1871196	SCMT09T308UF KC5010	B231
1871197	SPMT09T304UF KC5010	B239
1871198	TCMT110204UF KC5010	B245
1871199	TCMT110208UF KC5010	B245
1871200	TCMT16T308UF KC5010	B245
1871202	TPMT110204UF KC5010	B256
1871286	TNGG160404LF KC5010	B122
1871287	TNGG160408LF KC5010	B122
1871288	VNGG160402LF KC5010	B143
1871289	VNGG160404LF KC5010	B143
1871313	VNGG160408LF KC5010	B143
1871317	VNGG220408LF KC5010	B143
1871318	WNGG080401LF KC5010	B154
1871319	WNGG080402LF KC5010	B154
1871320	WNGG080404LF KC5010	B154
1872409	ICSN543 K9	B58–60
1873224	CWLNL2525M08-MX7	B369
1873227	CWLNR3225P08-MX7	B369
1873496	S40T-CWLNL08-MX7	B374
1873498	S40T-CSSNR12-MX7	B373
1873499	S40T-CSSNL12-MX7	B373
1874234	SPHX1205PCTLGPBK KY3500	S77
1874248	MDHX1004ZDFRGD4W K110M	S69
1874250	MDHX1004ZDFRGD4W KC520M	S69
1875191	DDJNR2525M15KC06	B85
1875192	DDJNL2525M15KC06	B85
1875193	DCLNR2525M12KC04	B59
1875194	DCLNL2020K12KC04	B59
1875195	DSSNR2525M12KC04	B107
1875196	DCLNL2525M12KC04	B59
1875197	DDJNR2020K15KC06	B85
1875198	DDJNL2020K15KC06	B85
1875199	DCLNR2020K12KC04	B59
1875200	DCKNR2525M12KC04	B58
1875201	DCRNR2525M12KC04	B60
1875202	DSSNR2020K12KC04	B107
1875203	DSSNL2525M12KC04	B107
1875204	DCKNL2525M12KC04	B58
1875205	DCLNL2525M16KC06	B59
1875206	DCRNL2525M12KC04	B60
1875207	DDJNL3225P15KC06	B85
1875208	DDJNR3225P15KC06	B85
1875209	DDJNL3232P15KC06	B85
1875210	DSDNN2020K12KC04	B105
1875211	DSDNN2525M12KC04	B105
1875212	DCLNR2525M16KC06	B59
1875215	DSBNL2525M12KC04	B105
1875216	DSDNN2525M15KC06	B105
1875219	DSKNR2525M12KC04	B106
1875220	DSKNL2525M12KC04	B106
1875222	DTGNR2525M22KC04	B132
1875223	DCLNR3225P12KC04	B59
1875224	DCLNR3232P16KC06	B59
1875225	DCLNL3232P16KC06	B59
1875226	DCRNR2020K12KC04	B60
1875227	DDJNR3232P15KC06	B85
1875228	DSRNR2525M12KC04	B106
1875230	DCLNL3225P16KC06	B59
1875231	DCLNL3225P12KC04	B59
1875232	DCLNR3225P16KC06	B59
1875233	DTFNL2525M22KC04	B132
1875234	DTGNL2525M22KC04	B132
1876838	TNMG160412FW KT315	B125
1876849	TNMG220404FP KC5010	B124
1877480	DNGN150704T02020 KY1615	B313
1877482	DNGN150708T02020 KY1615	B313
1877594	DNGN150712T02020 KY1615	B313
1877595	DNGN150716T02020 KY1615	B313
1877596	ENGN130704T02020 KY1615	B315
1877597	ENGN130708T02020 KY1615	B315
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1877599	ENGN130716T02020 KY1615	B315
1877601	RNGN120700T02020 KY1615	B316
1877602	RNGN120700T10015 KY1615	B316
1877603	RNGN120700T20015 KY1615	B316
1881130	CNGA120404T02020 KY1615	B309
1881131	CNGA120408T00520 KY1615	B309
1881132	CNGA120408T02020 KY1615	B309
1881199	KCUX110302R15 KC5010	E32
1881200	KCUX110305R15 KC5010	E32
1881201	KCUX110302L15 KC5010	E32
1881202	KCUX110305L15 KC5010	E32
1881203	KNUX150405R20 KC5010	E31
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1881244	CNGA120416T02020 KY1615	B309
1881246	CNGA160612T02020 KY1615	B309
1881249	CNGA190612T02020 KY1615	B309
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1881255	CNGN120708T02020 KY1615	B309
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1881258	CNGN120716T02020 KY1615	B309
1881266	CNGN160716T02020 KY1615	B309
1881267	CNGN160716T05015 KY1615	B309
1881272	CNGX120708T02020 KY1615	B311
1881273	CNGX120712T02020 KY1615	B311
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1918676	KDMB12R130A12SN	V112
1918677	KDMB12R150A12SN	V112
1918678	KDMB16R140A16SN	V112
1918679	KDMB16R160A16SN	V112
1918680	KDMB20R160A20SN	V112
1918681	KDMB20R175A20SN	V112
1918682	KDMB25R160A25SN	V112
1918683	KDMB25R190A25SN	V112
1918684	KDMB32R175A32SN	V112
1918685	KDMB32R210A32SN	V112
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1918691	KDMT12R150A12SN	V129
1918692	KDMT16R140A16SN	V129
1918693	KDMT16R160A16SN	V129
1918694	KDMT20R160A20SN	V129
1918695	KDMT20R175A20SN	V129
1918697	KDMT25R190A25SN	V129
1918699	KDMT32R210A32SN	V129
1918704	KDMB08R100A08HN	V114
1918705	KDMB08R150A08HN	V114
1918803	SM455 K9	S41
1918864	KDMB08M0ERGN KC530M	V118
1918865	KDMB08M0ERGN KC515M	V118
1918866	KDMB10M0ERGN KC530M	V118
1918867	KDMB10M0ERGN KC515M	V118
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1918875	KDMB25M0ERGN KC515M	V118
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1918879	KDMB32M0ERGN KC515M	V118
1918905	KDMS0806ERGN KC515M	V131
1918907	KDMS1008ERGN KC515M	V131
1918909	KDMS1210ERGN KC515M	V131
1918911	KDMS1613ERGN KC515M	V131
1918913	KDMS2016ERGN KC515M	V131
1918917	KDMS3220ERGN KC515M	V131
1918932	KDMT1220ERGN KC515M	V132
1918934	KDMT1630ERGN KC515M	V132
1918936	KDMT2040ERGN KC515M	V132
1920386	MDHX1004ZDFRGD4W KTPK20	S69
1920691	TPGN160304T00520 KY1615	B320
1920692	TPGN160308T00520 KY1615	B320
1920693	SPUN120308T00520 KY1615	B318
1920694	RCGX0907-001 KY1615	B316
1920751	NRD4125R KC5010	C159
1921611	193.395	V113–115
1921612	193.394	V113–115, V130
1921713	193.393	V111–115, V128–130
1921714	193.392	V111–115, V128–130
1921715	193.391	V111–114, V128–130
1921716	193.390	V111–114, V129
1921717	193.389	V112, V114, V129
1923011	NAS3R4 KC5025	D13
1923833	A4G0300M03P02GMP KC5025	C95
1923834	A4R0500M05P00GMP KC5025	C96
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1923840	A4G0500M05P08GMP KC5010	C95
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1926595	CNMG120402FN KC5010	B49
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1926837	125B10RS90SD12DG	T102
1926839	125B07RS90SD12DG	T102
1926840	100B08RS90SD12DG	T102
1926841	100B06RS90SD12DG	T102
1926850	40A03RS45SE14EG	S41
1926893	80A06RS45SE14EG	S41
1926894	80A05RS45SE14EG	S41
1926897	63A05RS45SE14EG	S41
1926898	80A06RS90SD12DG	T102
1926899	63A04RS45SE14EG	S41
1926900	50A04RS45SE14EG	S41
1926901	80A05RS90SD12DG	T102
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1926909	160C07RS45SE14EG	S41
1926911	125B08RS45SE14EG	S41
1926924	125B06RS45SE14EG	S41
1926925	100B07RS45SE14EG	S41
1926926	100B05RS45SE14EG	S41
1926933	63A05RS90SD12DG	T102
1926936	63A04RS90SD12DG	T102
1926938	50A04RS90SD12DG	T102
1926939	50A03RS90SD12DG	T102
1926941	200C14RS90SD12DG	T102
1926942	200C11RS90SD12DG	T102
1926983	160C12RS90SD12DG	T102
1927913	KSEM125R1WN16F45M	H63
1927914	KSEM160R1WN20F45M	H63
1927915	KSEM200R1WN25F45M	H63
1927916	KSEM241R1WN32F45M	H63
1928470	193.371	J77–78
1928504	193.372	J77–78
1928643	5.34032-025115	J78
1928644	5.34032-025200	J78
1928645	5.34050-025300	J78
1928646	5.34050-025450	J78

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1928667	SPHX090304R20 KC7215	J99
1928669	SPHX060204R20 KC7140	J99
1928670	SPHX070304R20 KC7140	J99
1928671	SPHX090304R20 KC7140	J99
1928672	SPHX120404R20 KC7140	J99
1930297	A05XSCLDLS4	B186
1930298	A05XSCLDRS4	B186
1930299	E04HSCLDLS4	B186
1930300	E04HSCLDRS4	B186
1930354	E05HSCFDRS4	B185
1930355	E05HSCLDLS4	B186
1930356	E05HSCLDRS4	B186
1930357	E05MSCLDLS4	B186
1930358	E05MSCLDRS4	B186
1930360	E06HSCFDRS4	B185
1930361	E06HSCLDLS4	B186
1930362	E06HSCLDRS4	B186
1930372	A0410ESCLDRS412	B187
1930374	A0410ESCLDRS425	B187
1930376	A0510ESCFDRS412	B185
1930378	A0510ESCLDRS412	B187
1930380	A0510ESCFDRS425	B185
1930382	A0510ESCLDRS425	B187
1930402	A0612ESCLDRS419	B187
1930404	A0612ESCFDRS431	B185
1930406	E0412DSCLDRS422	B187
1930408	E0512XSCFDRS425	B185
1930410	E0512XSCLDRS425	B187
1930412	E0512XSCFDRS450	B185
1930418	E0612ESCLDRS431	B187
1930434	E0616HSCLDRS431	B187
1930436	E0616XSCFDRS463	B185
1930492	A0616HSTLDR0731	B251
1930512	E0812XSTLDR0738	B252
1930544	A06HSWUPRS3	B273
1930546	A08HSWUPRS3	B273
1930549	E06MSWUPLS3	B273
1930550	E06MSWUPRS3	B273
1930552	E08MSWUPRS3	B273
1930556	A12MSWUPR04	B273
1930558	E10SSWUPR04	B273
1930560	E12SSWUPR04	B273
1930573	A12MSTFDL11	B250
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1931573	MS2077	U40–49, V70–72, V139
1931575	MS2078	S41, T102, U38–39
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1937508	CDHBS4T004 KT315	B184
1937509	CDHBS4T002 KC5010	B184
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1937519	CDHHS4T004R KC5010	B184
1937520	CDHHS4T004L KC5025	B184
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1937534	TDHB07T12S0 KT315	B249
1937535	TDHB07T1202 KC5010	B249
1937536	TDHB07T1202 KC5025	B249
1937538	TDHB07T1204 KC5010	B249
1937539	TDHB07T1204 KC5025	B249
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1937542	TDHB07T1208 KC5025	B249
1937544	TDHH07T1202L KC5010	B249
1937550	TDHH07T1204L KC5010	B249
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1937621	TPCB160308 KC5010	B253
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1940732	HTSR11CI	J67
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1940739	B513S08000 AS3	J68
1940740	B513S10000 A30	J68
1940741	B513S10000 AS3	J68
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1940785	HTSR14CI	J67
1940786	HTSR10CE	J67
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1940961	CNMG160612RP KC5010	B53
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1940968	DNMG150608RP KC5010	B81
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1940975	SNMG190612RP KC5010	B101
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1940979	TNMG220408RP KC5010	B128
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1940986	WNMG080408RP KC5010	B159
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1941190	B977A15800 KC7315	G142
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1949637	A4SMR2525M0317	C112
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1949639	A4SMR2020K0414	C112
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1949645	A4SMR2020K0519	C112
1949646	A4SML2020K0519	C113
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1959666	B977A06900 KC7315	G139
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1960079	B977A15100 KC7315	G141
1961106	B976A09700 KC7315	G140
1961108	B966A03200 KC7315	G132
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1962705	B977F05600 KC7315	G143
1962706	B977F03300 KC7315	G143
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1970761	B977F05100 KC7315	G143
1971584	B978A09750 KC7315	G147
1971763	B977A08900 KC7315	G140
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1974209	SPHX090310R20 KC7215	J99
1975006	B977A05200 KC7315	G139
1980539	BGHX15L504PCFRGG K110M	S149
1981264	BGHX15L508PCFRGG K110M	S149
1981677	50A05RS90SP10DG	T98
1981678	63A06RS90SP10DG	T98
1981679	25A02R039B25SSP10G	T97
1981758	BGHX15L515PCFRGG K110M	S149
1981759	BGHX15L515PCFRGG KC510M	S149
1981788	32A03R039B32SSP10G	T97
1981790	40A04R049B32SSP10G	T97
1981853	80A08RS90SP10DG	T98
1981854	100B10RS90SP10DG	T98
1982315	DFT030204HP KMF	J87
1982316	DFT030304HP KMF	J87
1982318	MDHX1004ZDFLGD4W K110M	S69
1982397	B966A06200 KC7315	G132
1982560	200C12RP90BG15C12WHPM	S146
1983309	3.42805R081 KC7215	I27
1983310	3.42807R081 KC7215	I27
1983992	CCMT120408LF KC5025	B177
1984003	CCMT09T308MF KC5025	B177
1984183	B976A05200 KC7315	G139
1984545	B978A11200 KC7315	G147
1985037	B966A06700 KC7315	G133
1985038	B966A08200 KC7315	G133
1985751	KLM34L9IP	B59, B85, B132, B149–150, B161
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1985792	TTP9	U27–35
1985985	B978A10800 KC7315	G147
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1986773	B976A06200 KC7315	G139
1987659	SPHX1205PCSRGPB KCK15	S77
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1988100	B966A07900 KC7315	G133
1988291	B977F08100 KC7315	G144
1988931	B977A05700 KC7315	G139
1988932	B976A05300 KC7315	G139
1988983	B976A08700 KC7315	G140
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1992822	B105A04600 K10	G32
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1993403	KSEM181R1WN25F45M	H63
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1993405	KSEM261R1WN32F45M	H63
1993406	KSEM281R1WN32F45M	H63
1993407	KSEM301R1WN32F45M	H63
1993408	KSEM321R1WD50F45M	H63
1993409	KSEM361R1WD50F45M	H63
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1995076	B966A12100 KC7315	G134
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1995581	F4AJ0800AWM50L120 KC633M	P145
1995582	F4AJ1000AWM50L150 KC633M	P145
1995585	F4AJ1600AWL50L240 KC633M	P145
1995586	F4AJ2000AWL50L300 KC633M	P145
1995587	F5AJ2500AWX50L380 KC633M	P145
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1995595	F4AJ1200AWL50R150 KC633M	P144
1995596	F4AJ1600AWL50R050 KC633M	P144
1995597	F4AJ1600AWL50R150 KC633M	P144
1995598	F4AJ2000AWX50R050 KC633M	P144
1995599	F4AJ2000AWX50R200 KC633M	P144
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1996058	F2AL0150AWL30 KC637M	P148
1996059	F2AL0200AWL30 KC637M	P148
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1996061	F2AL0400AWL30 KC637M	P148
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2016109	100B14RF45HN09C	S89
2016111	125B18RF45HN09C	S89
2016133	160C22RF45HN09C	S89
2016165	80A62RF60HN09C	S94
2016167	100B82RF60HN09C	S94
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2016171	160C164RF60HN09C	S94
2016193	200C205RF60HN09C	S94
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2018166	12748500400	S95
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2071758	MSSNL10CA09	B117
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2074429	MTFNR16CA16	B139
2074430	MSKNR16CA12	B115
2074432	MSRNR16CA12	B116
2074433	MCFNR16CA12	B70
2074904	MSTNR12CA12	B118
2077947	MCLNL12CA12	B72
2078231	MSRNR12CA12	B116
2078236	MTFNR12CA16	B139
2079654	NG3189R KC5010	C154
2114011	MSKNR10CA09	B115
2114013	MSKNR12CA12	B115
2114015	MSYNR10CA09	B119
2114034	CTFPL10CA11	B378
2114041	MTGNR12CA16	B140
2116588	CTFPR10CA11	B378
2193621	MTFNL16CA16	B139
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2202439	KRBB10SCLDR4060C	K74, K96
2202440	KRBB10SCFPR06085C	K74, K96
2202450	KRBB10SCFPR06110C	K74, K97
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2204397	CBTF210R2WD20N2M	J98
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2204400	CBTF230R2WD20N3M	J98
2204401	CBTF250R2WD20N3M	J98

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
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2204408	CBTF240R2WD20N3M	J98
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2210831	160C06RP90BG15CM	S143
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2213947	WNMG060408RP KC5010	B159
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2227125	3.90016SNGD KCPK30	U9
2227126	3.90022SNGB KCPK30	U9
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2227128	3.90030SNGB KCPK30	U9
2227129	3.90030SNGD KCPK30	U9
2227130	3.90040SNGB KCPK30	U9
2227131	3.90040SNGD KCPK30	U9
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2234821	A4C0405R10CF02 KC5025	C103
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2234824	A4R0305M03U00GMN KC5010	C97
2234825	A4R0300M03P00GMP KC5025	C96
2234826	A4R0300M03P00GMP KC5010	C96
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2235210	A4R0300M03P00GMP K313	C96
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2239685	DCMT11T304FW KC5010	B207
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2240427	HNEN0905AMSN KY3500	S92, S98
2242390	B966A05600 KC7315	G132
2242780	B978A06600 KC7315	G146
2244229	B977A08100 KC7315	G140
2244276	B977A18800 KC7315	G142
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2244887	CNMG190608MS KC5010	B52
2244888	CNMG190612MS KC5010	B52
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2244894	DNMG150608MS KC5010	B79
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2244905	TNMG220408MS KC5010	B126
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2244918	WNMG080408MS KC5010	B158
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2244953	WNMG080404MS KC5025	B158
2244954	WNMG080408MS KC5025	B158
2244955	CNMG120412MS K313	B52
2244958	CNMG160612MS K313	B52
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2244981	TNMG270616MS K313	B126
2244983	VNMG160402MS K313	B146
2244984	VNMG160408MS K313	B146
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2244990	WNMG080408MS K313	B158
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2245037	TNMG270612RP KC5010	B128
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2245046	CNMG120412RP KC5025	B53
2245048	CNMG160608RP KC5025	B53
2245049	CNMG160612RP KC5025	B53
2245050	CNMG160616RP KC5025	B53
2245051	CNMG190612RP KC5025	B53
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2245056	DNMG150608RP KC5025	B81
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2245074	VNMG160408RP KC5025	B147
2245076	WNMG080408RP KC5025	B159
2245079	DNMG110408RP KC5010	B81
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2245263	B977A15900 KC7315	G142
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2245740	SPHX060208R20 KC7215	J99
2245741	SPHX070302R20 KC7215	J99
2245742	SPHX070306R20 KC7215	J99
2245833	SPHX070308R20 KC7215	J99
2245834	SPHX070312R20 KC7215	J99
2245836	SPHX090312R20 KC7215	J99
2245837	SPHX090316R20 KC7215	J99
2245839	SPHX120410R20 KC7215	J99
2245840	SPHX120416R20 KC7215	J99
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2245843	SPHX150512R20 KC7215	J99
2245844	SPHX150516R20 KC7215	J99
2245845	SPHX150520R20 KC7215	J99
2245846	SPHX060202R21 KC7215	J100
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2245857	SPHX120410R21 KC7215	J100
2245858	SPHX120416R21 KC7215	J100
2245859	SPHX120420R21 KC7215	J100
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2245861	SPHX120412R20 KC7215	J99
2245862	SPHX120412R21 KC7215	J100
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2246045	A4G0605M06U08GMP KC5010	C95
2246047	A4G0600M06P08GMP KC5025	C95
2246074	TPMT110204LF KC5025	B255
2246494	SECT1404AEFNLE KC410M	S42
2248306	B966A14300 KC7315	G134
2248735	420.104	S68
2248993	50HC030M	G85
2248994	50HC050M	G85
2248995	75HC030M	G85
2248996	75HC040M	G85
2248997	75HC050M	G85
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2250775	DNGG110402FS KC5010	B74
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2250789	VNGG160402FS KC5010	B143
2250790	VNGG160404FS KC5010	B143
2250791	VNGG160408FS KC5010	B143
2250809	TNGG160402FS KC5025	B122
2250810	TNGG160404FS KC5025	B122
2250816	VNGG160404FS KC5025	B143
2250817	VNGG160408FS KC5025	B143
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2251337	B977F09100 KC7315	G144
2251340	B977F10100 KC7315	G144
2251521	SSP025018M	B66, B105–106
2251639	B977A13800 KC7315	G141
2251799	B966F05300 KC7315	G135
2251802	B966F08200 KC7315	G135
2252989	KSEM1250PCM KC7135	H56
2252992	KSEM1750PCM KC7135	H56
2253024	KSEM2600PCM KC7135	H56, H87
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2256128	NGP2062R KC5010	C152
2256252	B966A09900 KC7315	G133
2256916	B966A04700 KC7315	G132
2256918	B977A10800 KC7315	G141
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2257646	B256A09500 KC7315	G63
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2258041	KTIP100R5SS12M	H31
2258042	KTIP120R5SS14M	H31
2258053	KTIP160R5SS18M	H31
2259958	170.306	H31–32
2259959	170.307	H31–32
2259960	170.308	H31–32
2259961	170.309	H31–32
2259981	MS2126	T69–72
2260660	B977F08700 KC7315	G144
2261701	B978A06100 KC7315	G146

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
2262952	RK90SP1014	U27, U30, U32, U34
2262954	RK90SP1016	U31, U35
2262956	RK90SD1218	U40, U42, U44, U48
2262957	LK90SD1218	U41
2262958	RK90SD1220	U43, U45, U49
2262959	LK90SD1220	U47
2262960	W14	U27–28, U30, U32–34
2262961	W16	U29, U31, U35
2262962	W18	U40–42, U44, U46, U48
2262963	W20	U43, U45, U47, U49
2262964	CP1416	U27–35
2262965	CP1820	U40–49
2263089	A4SMR3225P0626	C112
2263090	A4SML3225P0626	C113
2263091	A4SMR3225P0826	C112
2263092	A4SML3225P0826	C113
2263173	A4SMR3225P1026	C112
2263174	A4SML3225P1026	C113
2263197	A40TA4EMR0616M	C119
2263198	A40TA4EML0616M	C119
2263299	MS1490	C37–40, C44–45, C112–113, D32
2263361	A4G0605M06U04GMN KC5010	C96
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2263387	A4G0605M06U04GMP KC5025	C95
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2264996	B976F05600 KC7315	G143
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2266804	B966A03960 KC7315	G132
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2268311	KTIP120R3SS14M	H31
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2268313	KTIP130R3SS14M	H31
2268314	KTIP135R3SS14M	H31
2268315	KTIP140R3SS16M	H31
2268316	KTIP145R3SS16M	H31
2268317	KTIP150R3SS16M	H31
2268318	KTIP160R3SS18M	H31
2269913	DT9IP	T4–7, T47–50, T57–59, T97–98, U25–26, V38–40
2269914	DT15IP	S41, T14–17, T69–72, T102, U38–39, V70–72, V77–78, V137–139
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2271067	EDPT180516PDERGD KC522M	T74
2271071	EDPT180516PDERGD KCPK30	T74
2271072	EDPT180532PDERGD KC725M	T74
2271087	EDCT180504PDERGD KC725M	T74
2271088	EDCT180504PDFRLDJ KC410M	T73
2271089	EDCT180508PDFRLDJ KC410M	T73
2271090	EDCT180516PDFRLDJ KC410M	T73
2271091	EDCT180532PDFRLDJ KC410M	T73
2271092	EDCT180564PDFRLDJ KC410M	T73
2271093	EDCT180516PDERLD KC522M	T74
2271094	EDCT180532PDERLD KC522M	T74
2271095	EDCT180564PDERLD KC522M	T74
2271097	EDPT180524PDERGD KC725M	T74
2271115	EDPT180532PDERGD KC522M	T74
2271116	EDPT180532PDERGD KC520M	T74
2271118	EDPT180532PDERGD KCPK30	T74
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2271122	EDPT180508PDERGD KC520M	T74
2271135	EDPT180508PDERGD KCPK30	T74
2271155	EDPT180564PDERGD KC725M	T74
2271157	EDPT180564PDERGD KC522M	T74
2271158	EDPT180564PDERGD KCPK30	T74
2271159	EDPT180512PDERGD KC725M	T74
2272493	B977A11900 KC7315	G141
2272784	3.42805R021 KC7015	I27
2272786	3.42805R021 KC7315	I27
2272789	3.42807R021 KC7015	I27
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2273083	DCKNR2020K12KC04	B58
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2273085	DCKNR3232P16KC06	B58
2273087	DCKNL2020K12KC04	B58
2273088	DCKNL3225P12KC04	B58
2273091	DCLNR3232P19KC06	B59
2273092	DCLNR4040S19KC06	B59
2273093	DCLNL3232P19KC06	B59
2273094	DCLNL4040S19KC06	B59
2273095	DCRNR3225P12KC04	B60
2273097	DCRNR3232P19KC06	B60
2273099	DCRNL3232P16KC06	B60
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2273102	DCSNR2525M12KC04	B60
2273104	DCSNL2525M12KC04	B60
2273105	DDJNR2020K11KC04	B85
2273106	DDJNR2525M11KC04	B85
2273107	DDJNL2020K11KC04	B85
2273108	DDJNL2525M11KC04	B85
2273111	DDNNR2020K15KC06	B85
2273112	DDNNR2525M15KC06	B85
2273139	DSDNN3232P19KC06	B105
2273156	DSSNR3225P12KC04	B107
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2273321	B966A09200 KC7315	G133
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2273455	DWLNL2525M06KC04	B161
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2275093	A4R250I06P00GMN KC5010	C97
2275452	B978A19800 KC7315	G148
2275583	MS2148	T57–59, T97–98, U25–35
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2276090	B977A18400 KC7315	G142
2276698	B977A18600 KC7315	G142
2277900	VBMT110304LF KC5025	B265
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2383519	TPGX1102ZPRGD KC7315	H63
2383520	TPGX1303ZPRGD KC7315	H63
2383521	TPGX1603ZPRGD KC7315	H63
2383522	TPGX0902ZPRGD KC7140	H63
2383552	B977A06350 KC7315	G139
2383555	SDCT120404PDERLD2 KC725M	T104, T111, U51
2383556	SDCT120404PDELLD2 KC725M	T104, T111, U51
2383557	SDCT1204PDELLD2 KC725M	T104, T111, U51
2383558	SDCT120412PDERLD2 KC725M	T104, T111, U51
2383559	SDCT120412PDELLD2 KC725M	T104, T111, U51
2383560	SDCT120416ENLD2 KC725M	T104, T111, U51
2383561	SDCT120420ENLD2 KC725M	T104, T111, U51
2383562	SDCT120424ENLD2 KC725M	T104, T111, U51
2383583	SDCT120432ENLD2 KC725M	T104, T111, U51
2383584	SPCT10T304PPERLD2 KC725M	T100, U36
2383585	SPCT10T304PPELLD2 KC725M	T100, U36
2383586	SPCT10T3PPELLD2 KC725M	T100, U36
2383587	SPCT10T312PPERLD2 KC725M	T100, U36
2383588	SPCT10T312PPELLD2 KC725M	T100, U36
2383589	SPCT10T316ENLD2 KC725M	T100, U36
2383590	SPCT10T320ENLD2 KC725M	T100, U36
2383591	SDCT120404PDFRLE KC410M	T103, T110, U50, V141
2383592	SDCT120404PDFLLE KC410M	T103, T110, U50, V141
2383593	SDCT1204PDFRLE KC410M	T103, T110, U50, V141
2383594	SDCT1204PDFLLE KC410M	T103, T110, U50, V141
2383595	SDCT120412PDFRLE KC410M	T103, T110, U50, V141
2383596	SDCT120412PDFLLE KC410M	T103, T110, U50, V141
2383597	SDCT120416FNLE KC410M	T103, T110, U50, V141
2383598	SDCT120420FNLE KC410M	T103, T110, U50, V141
2383599	SDCT120424FNLE KC410M	T103, T110, U50, V141
2383600	SDCT120432FNLE KC410M	T103, T110, U50, V141
2383601	SPCT10T304PPFRLE KC410M	T99, U36
2383602	SPCT10T304PPFLLE KC410M	T99, U36
2383603	SPCT10T3PPFRLE KC410M	T99, U36
2383604	SPCT10T3PPFLLE KC410M	T99, U36
2383605	SPCT10T312PPFRLE KC410M	T99, U36
2383608	SPCT10T320FNLE KC410M	T99, U36
2383778	B977A06400 KC7315	G139
2384123	TPGX1102ZPRGD KC7140	H63
2384124	TPGX1303ZPRGD KC7140	H63
2384125	TPGX1603ZPRGD KC7140	H63
2384430	B977A12100 KC7315	G141
2384504	STN1018UNI KC635M	W44
2384505	STN1020UNI KC635M	W44
2384509	STN1114UNI KC635M	W44
2384510	STN1116UNI KC635M	W44
2384511	STN1118UNI KC635M	W44
2384512	STN1120UNI KC635M	W44
2384513	STN1124UNI KC635M	W44
2384517	STN1614UNI KC635M	W44

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Sipariş No.	Katalog No.	Sayfa(lar):
2384521	STN1624UNI KC635M	W44
2384522	STN1627UNI KC635M	W44
2384524	STN1632UNI KC635M	W44
2385356	B976A05100 KC7315	G139
2385527	F2AL0050AWS30L050 KC637M	P166
2385528	F2AL0060AWS30L060 KC637M	P166
2385529	F2AL0080AWS30L080 KC637M	P166
2385530	F2AL0100AWS30L100 KC637M	P166
2385531	F2AL0120AWS30L120 KC637M	P166
2385553	F2AL0150AWS30L150 KC637M	P166
2385554	F2AL0160AWS30L160 KC637M	P166
2385555	F2AL0180AWS30L180 KC637M	P166
2385556	F2AL0200AWS30L200 KC637M	P166
2385557	F2AL0250AWS30L250 KC637M	P166
2385558	F2AL0300AWS30L300 KC637M	P166
2385559	F2AL0400AWS30L400 KC637M	P166
2385560	F2AL0600AWS30L600 KC637M	P166
2385561	F2AH0030AWS30L040 KC637M	P162–163
2385563	F2AH0050AWS30L070 KC637M	P162–163
2385566	F2AH0100AWS30L150 KC637M	P162–163
2385569	F2AH0150AWS30L230 KC637M	P162–163
2385570	F2AH0160AWS30L240 KC637M	P162–163
2385571	F2AH0180AWS30L270 KC637M	P162–163
2385572	F2AH0200AWS30L300 KC637M	P162–163
2385573	F2AH0250AWS30L370 KC637M	P162–163
2385576	F2AH0080AWM30L120 KC637M	P162–163
2385577	F2AH0100AWM30L150 KC637M	P162–163
2385580	F2AH0150AWM30L230 KC637M	P162–163
2385581	F2AH0160AWM30L240 KC637M	P162–163
2385582	F2AH0180AWM30L270 KC637M	P162–163
2385583	F2AH0200AWM30L300 KC637M	P162–163
2385584	F2AH0250AWM30L370 KC637M	P162–163
2386665	B977A19700 KC7315	G142
2388424	DT8IP	W4–5, W10–13, W17–19, W24–25
2388660	SKRN1203M0 K9	B227–228
2388784	B976A10800 KC7315	G141
2389802	PMT04525	C63, C133
2390123	B977A08300 KC7315	G140
2390253	SDCT1204PDERLD2 KC725M	T104, T111, U51
2390254	SPCT10T3PPERLD2 KC725M	T100, U36
2390256	SECT1404AEENLD2 KC725M	S42
2390257	SEKT1404AEENGP2 KC725M	S42
2390258	SEKT1404AEENGP2 KC520M	S42
2390259	SEKT1404AEENGP2 KCK15	S42
2390260	SEKT1404AEENGP2 KCPK30	S42
2390261	SEKT1404AESNGP2 KC725M	S42
2390262	SEKT1404AESNGP2 KC520M	S42
2390263	SEKT1404AESNGP2 KCK15	S42
2390264	SEKT1404AESNGP2 KCPK30	S42
2390265	SPET10T3PPELGB2 KC725M	T100, U37
2390266	SPET10T3PPELGB2 KCK15	T100, U37
2390267	SPET10T3PPELGB2 KCPK30	T100, U37
2390268	SPET10T3PPELGB2 KC520M	T100, U37
2390269	SPET10T3PPSLGB2 KC725M	T100, U37
2390271	SPET10T3PPSLGB2 KCPK30	T100, U37
2390273	SPET10T3PPERGB2 KC725M	T100, U37
2390274	SPET10T3PPERGB2 KCK15	T100, U37
2390275	SPET10T3PPERGB2 KCPK30	T100, U37
2390276	SPET10T3PPERGB2 KC520M	T100, U37
2390277	SPET10T3PPSRGB2 KC725M	T100, U37
2390278	SPET10T3PPSRGB2 KCK15	T100, U37
2390279	SPET10T3PPSRGB2 KCPK30	T100, U37
2390280	SPET10T3PPSRGB2 KC520M	T100, U37
2390281	SDET1204PDELGB2 KC520M	T104, T111, U52
2390282	SDET1204PDELGB2 KCK15	T104, T111, U52
2390283	SDET1204PDELGB2 KCPK30	T104, T111, U52
2390284	SDET1204PDELGB2 KC725M	T104, T111, U52
2390285	SDET1204PDERGB2 KC520M	T104, T111, U52
2390286	SDET1204PDERGB2 KCK15	T104, T111, U52
2390287	SDET1204PDERGB2 KCPK30	T104, T111, U52
2390288	SDET1204PDERGB2 KC725M	T104, T111, U52
2390289	SDET1204PDSRGB2 KC520M	T104, T111, U52
2390290	SDET1204PDSRGB2 KCK15	T104, T111, U52
2390291	SDET1204PDSRGB2 KCPK30	T104, T111, U52
2390292	SDET1204PDSRGB2 KC725M	T104, T111, U52
2390293	SDET120412PDELGB2 KC520M	T104, T111, U52
2390294	SDET120412PDELGB2 KCK15	T104, T111, U52
2390296	SDET120412PDELGB2 KC725M	T104, T111, U52
2390297	SDET120412PDERGB2 KC520M	T104, T111, U52
2390298	SDET120412PDERGB2 KCK15	T104, T111, U52
2390299	SDET120412PDERGB2 KCPK30	T104, T111, U52
2390300	SDET120412PDERGB2 KC725M	T104, T111, U52
2390446	25A02R044B25SED18	T70
2390448	32A03R050B32SED18	T70
2390450	40A04R050B32SED18	T70
2390483	63A06RS90ED18D	T72
2390485	100A08RS90ED18D	T72
2390486	125B09RS90ED18D	T72
2390487	160C12RS90ED18D	T72
2390961	B976A08200 KC7315	G140
2391872	B977A17700 KC7315	G142
2391902	B966A06350 KC7315	G133
2391925	B966A05040 KC7315	G132
2392360	B976A03800 KC7315	G138
2392361	B976A03900 KC7315	G138
2393422	STN1118UNE KC635M	W44
2393667	STN1624UNE KC635M	W44
2393668	STN1620UNE KC635M	W44
2393670	STN1616UNE KC635M	W44
2393671	STN1614UNE KC635M	W44
2396971	B977A04900 KC7315	G139
2397289	B976A17100 KC7315	G142
2397687	B976A04900 KC7315	G139
2397689	B976A07900 KC7315	G140
2397765	KLM68L25IP	B59–60, B105
2397767	KMSP625IP	B59–60, B105
2398751	A4M50R0314B036048	C127
2398752	A4M50R0314B042058	C127
2398763	A4M50R0314B052074	C127
2398764	A4M50R0314B068100	C127
2398765	A4M50R0314B090160	C127
2398766	A4M50R0314B130300	C127
2398767	A4M50R0314B290999	C127
2398768	A4M50L0314B036048	C128
2398769	A4M50L0314B042058	C128
2398770	A4M50L0314B052074	C128
2398771	A4M50L0314B068100	C128
2398772	A4M50L0314B090160	C128
2398773	A4M50L0314B130300	C128
2398774	A4M50L0314B290999	C128
2398775	A4M50R0414B048072	C127
2398776	A4M50R0414B064100	C127
2398777	A4M50R0414B092150	C127
2398778	A4M50R0414B132300	C127
2398779	A4M50R0414B290999	C127
2398780	A4M50L0414B048072	C128
2398781	A4M50L0414B064100	C128
2398782	A4M50L0414B092150	C128
2398783	A4M50L0414B132300	C128
2398784	A4M50L0414B290999	C128
2398785	A4M50R0519B058094	C127
2398786	A4M50R0519B080136	C127
2398787	A4M50R0519B120300	C127
2398788	A4M50R0519B250999	C127
2398789	A4M50L0519B058094	C128
2398790	A4M50L0519B080136	C128
2398791	A4M50L0519B120300	C128
2398792	A4M50L0519B250999	C128
2399462	KM25NER230	D30
2399494	KM25NER330	D30
2399495	KM25NEL330	D30
2399496	KM25NER430	D30
2399497	KM25NEL430	D30
2399498	KM25NSR230	D30
2399499	KM25NSL230	D30
2399500	KM25NSR330	D30
2399501	KM25NSL330	D30
2399503	KM25NSL430	D30
2399504	KM25LSSR1630	D83
2399505	KM25LSSL1630	D83
2399506	KM25LSER1630	D83
2399507	KM25LSEL1630	D83
2400403	F2AB0200AWM30 KC637M	P150
2400404	F2AB0300AWM30 KC637M	P150
2400405	F2AB0400AWL30 KC637M	P150
2400406	F2AB0500AWL30 KC637M	P150
2400407	F2AB0600AWL30 KC637M	P150
2400409	F2AB1000AWL30 KC637M	P150
2400410	F2AB1200AWX30 KC637M	P150
2400693	50A3RS90SD12L32	T109
2400694	63A3RS90SD12L50	T109
2400695	80A4RS90SD12L61	T109
2401853	B977A13100 KC7315	G141
2402283	KTIP085R5SS10M	H31
2402284	KTIP090R5SS10M	H31
2402285	KTIP095R5SS10M	H31
2402286	KTIP105R5SS12M	H31
2402287	KTIP110R5SS12M	H31
2402288	KTIP115R5SS12M	H31
2402289	KTIP125R5SS14M	H31
2402290	KTIP130R5SS14M	H31
2402291	KTIP135R5SS14M	H31
2402292	KTIP140R5SS16M	H31
2402293	KTIP145R5SS16M	H31
2402294	KTIP150R5SS16M	H31
2403807	B966A08300 KC7315	G133
2404108	B976A14200 KC7315	G141
2404433	B978A11700 KC7315	G147
2404438	B966A06300 KC7315	G133
2404444	STN10075ISOI KC635M	W45
2404445	STN10100ISOI KC635M	W45
2404446	STN10125ISOI KC635M	W45
2404447	STN10150ISOI KC635M	W45
2404449	STN11100ISOI KC635M	W45
2404451	STN11150ISOI KC635M	W45
2404454	STN16100ISOI KC635M	W45
2404456	STN16150ISOI KC635M	W45
2404457	STN16175ISOI KC635M	W45
2404458	STN16200ISOI KC635M	W45
2404472	MDHX1004ZDERGD4W K110M	S69
2404707	A4G0305M03U02B KC5025	C98
2404708	A4G0405M04U04B KC5025	C98
2404943	MDHX1004ZDERGD K110M	S69
2404944	MDHX1004ZDERGD KTPK20	S69
2404945	F3AA1000AWL45R050 K600	P122
2404946	F3AA1200AWL45R050 K600	P122
2404947	F3AA1600AWX45R050 K600	P122
2404948	F3AA2000AWX45R050 K600	P122
2404949	F3AA2500AWX45R050 K600	P122
2404950	F3AA1000AWL45R100 K600	P122
2404951	F3AA1200AWL45R100 K600	P122
2404952	F3AA1600AWX45R100 K600	P122
2405161	KTIP080R3SCF12M	H32
2405162	KTIP085R3SCF12M	H32
2405203	KTIP090R3SCF12M	H32
2405204	KTIP095R3SCF12M	H32
2405205	KTIP100R3SCF16M	H32
2405206	KTIP105R3SCF16M	H32
2405207	KTIP110R3SCF16M	H32
2405208	KTIP115R3SCF16M	H32
2405209	KTIP120R3SCF16M	H32
2405210	KTIP125R3SCF16M	H32
2405211	KTIP130R3SCF16M	H32
2405212	KTIP135R3SCF16M	H32
2405213	KTIP140R3SCF16M	H32
2405214	KTIP145R3SCF16M	H32
2405215	KTIP150R3SCF20M	H32
2405216	KTIP160R3SCF20M	H32
2405248	KTIP080R5SCF12M	H32
2405249	KTIP085R5SCF12M	H32
2405250	KTIP090R5SCF12M	H32
2405251	KTIP095R5SCF12M	H32
2405252	KTIP100R5SCF16M	H32
2405273	KTIP105R5SCF16M	H32
2405274	KTIP110R5SCF16M	H32
2405275	KTIP115R5SCF16M	H32
2405276	KTIP120R5SCF16M	H32
2405277	KTIP125R5SCF16M	H32
2405278	KTIP130R5SCF16M	H32
2405279	KTIP135R5SCF16M	H32
2405280	KTIP140R5SCF16M	H32
2405281	KTIP145R5SCF16M	H32
2405282	KTIP150R5SCF20M	H32
2405283	KTIP160R5SCF20M	H32
2405361	SEPT1404AEENGB2 KC725M	S43
2405362	SEPT1404AEENGB2 KCK15	S43
2405373	SEPT1404AEENGB2 KCPK30	S43
2405375	SEPT1404AESNGB2 KC725M	S43
2405376	SEPT1404AESNGB2 KCK15	S43
2405377	SEPT1404AESNGB2 KCPK30	S43
2405379	SPPT10T3PPERGB2 KCK15	T101, U37
2405380	SPPT10T3PPERGB2 KCPK30	T101, U37
2405381	SPPT10T3PPSRGB2 KCK15	T101, U37
2405382	SPPT10T3PPSRGB2 KCPK30	T101, U37
2405383	SPPT10T3PPSRGB2 KTPK20	T101, U37
2405384	SDPT1204PDERGB2 KC725M	T105, T112, U52
2405385	SDPT1204PDERGB2 KCK15	T105, T112, U52

Dizin

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
2405386	SDPT1204PDERGB2 KCPK30	T105, T112, U52
2405387	SDPT1204PDSRGB2 KC725M	T105, T112, U52
2405388	SDPT1204PDSRGB2 KCK15	T105, T112, U52
2405389	SDPT1204PDSRGB2 KCPK30	T105, T112, U52
2405616	KSEM3200PCM KC7135	H56, H87
2405618	KSEM4000PCM KC7135	H56, H87
2406113	F3AA2000AWX45R100 K600	P122
2406114	F3AA2500AWX45R100 K600	P122
2406115	F3AA1000AWL45R200 K600	P122
2406116	F3AA1200AWL45R200 K600	P122
2406117	F3AA1600AWX45R200 K600	P122
2406118	F3AA2000AWX45R200 K600	P122
2406119	F3AA2500AWX45R200 K600	P122
2406120	F3AA1000AWL45R400 K600	P122
2406121	F3AA1200AWL45R400 K600	P122
2406122	F3AA1600AWX45R400 K600	P122
2406123	F3AA2000AWX45R400 K600	P122
2406124	F3AA2500AWX45R400 K600	P122
2407294	B977A10100 KC7315	G140
2407297	B978A07700 KC7315	G147
2408209	B977A09400 KC7315	G140
2408266	B966A03400 KC7315	G132
2408308	B976A09200 KC7315	G140
2414136	A4ENN2020K0305	C118
2414137	A4ENN2525M0305	C118
2416198	B977A16400 KC7315	G142
2416279	B977A04100 KC7315	G138
2417183	50A05RS90ED18D	T72
2417184	80A07RS90ED18D	T72
2417185	50A04RS90ED18D	T72
2417186	63A05RS90ED18D	T72
2417187	80A06RS90ED18D	T72
2417188	100A07RS90ED18D	T72
2417189	125B08RS90ED18D	T72
2417190	160C10RS90ED18D	T72
2417191	40A03R050B32SED18	T70
2417296	DCLNR1616H09KC03	B59
2419790	B976A12300 KC7315	G141
2421384	SSY5T K9	D82, D84–85
2421386	SSA5T	D82, D84–85
2424997	B967A12500 KC7315	G134
2425000	B967A09000 KC7315	G133
2425052	B967A10800 KC7315	G133
2425073	B967A08500 KC7315	G133
2425113	B966A04100 KC7315	G132
2425114	B966A04900 KC7315	G132
2425115	B966A05400 KC7315	G132
2425117	B966A03600 KC7315	G132
2425118	B966A07100 KC7315	G133
2425119	B966A07300 KC7315	G133
2425120	B966A07600 KC7315	G133
2425143	B966A08700 KC7315	G133
2425145	B966A08900 KC7315	G133
2425146	B966A09100 KC7315	G133
2425149	B966A09700 KC7315	G133
2425151	B966A10900 KC7315	G133
2425173	B966A11100 KC7315	G133
2425176	B966A11900 KC7315	G134
2425178	B966A12200 KC7315	G134
2425203	B966A12400 KC7315	G134
2425205	B966A12800 KC7315	G134
2425206	B966A12900 KC7315	G134
2425233	B966A14200 KC7315	G134
2425285	B977A03000 KC7315	G138
2425288	B977A03100 KC7315	G138
2425290	B977A03200 KC7315	G138
2425292	B977A03400 KC7315	G138
2425303	B977A03500 KC7315	G138
2425304	B977A03600 KC7315	G138
2425305	B977A03700 KC7315	G138
2425306	B977A03800 KC7315	G138
2425309	B977A04400 KC7315	G139
2425310	B977A04700 KC7315	G139
2425311	B977A05400 KC7315	G139
2425323	B977A06200 KC7315	G139
2425324	B977A06300 KC7315	G139
2425325	B977A06600 KC7315	G139
2425326	B977A07300 KC7315	G140
2425328	B977A07900 KC7315	G140
2425330	B977A07600 KC7315	G140
2425331	B977A08600 KC7315	G140
2425332	B977A09100 KC7315	G140
2425344	B977A09600 KC7315	G140
2425380	B977A12400 KC7315	G141
2425381	B977A11400 KC7315	G141
2425455	B977A10400 KC7315	G140
2425456	B977A11300 KC7315	G141
2425457	B977A10900 KC7315	G141
2425659	CCMT060202LF KC5025	B177
2425660	CCMT060204LF KC5025	B177
2425661	CCMT060208LF KC5025	B177
2425662	CCMT09T302LF KC5025	B177
2425773	CCMT09T304LF KC5025	B177
2425775	CCMT120404LF KC5025	B177
2425779	CPMT050204LF KC5025	B190
2425780	CPMT060202LF KC5025	B190
2425781	CPMT060204LF KC5025	B190
2425782	CPMT060208LF KC5025	B190
2425784	CPMT09T304LF KC5025	B190
2425785	CPMT09T308LF KC5025	B190
2425786	DCMT070202LF KC5025	B207
2425788	DCMT150404LF KC5025	B207
2425789	DCMT150408LF KC5025	B207
2425790	DPMT070202LF KC5025	B215
2425791	DPMT070204LF KC5025	B215
2425793	DPMT11T304LF KC5025	B215
2425794	DPMT11T308LF KC5025	B215
2425795	SCMT09T304LF KC5025	B230
2425796	SCMT09T308LF KC5025	B230
2425798	SCMT120408LF KC5025	B230
2425800	SPMT09T304LF KC5025	B238
2425801	SPMT09T308LF KC5025	B238
2425802	TCMT110202LF KC5025	B244
2425803	TCMT110204LF KC5025	B244
2425804	TCMT110208LF KC5025	B244
2425805	TCMT16T302LF KC5025	B244
2425806	TCMT16T304LF KC5025	B244
2425807	TCMT16T308LF KC5025	B244
2425809	TCMT220408LF KC5025	B244
2425811	TPMT090204LF KC5025	B255
2425813	TPMT110208LF KC5025	B255
2425814	TPMT16T304LF KC5025	B255
2425815	TPMT16T308LF KC5025	B255
2425817	TPMT220408LF KC5025	B255
2425818	VBMT110308LF KC5025	B265
2425819	VBMT160402LF KC5025	B265
2425820	WPMTS3T104LF KC5025	B272
2425821	WPMT040204LF KC5025	B272
2425825	WCMT06T308LF KC5025	B270
2425826	CNMG120404RP KC5010	B53
2425828	CNMG120404RP KC5025	B53
2425841	DNGG150412FS KC5010	B74
2425843	DCMT070204LF KC5025	B207
2425844	DCMT11T302LF KC5025	B207
2425845	DCMT11T304LF KC5025	B207
2425846	DCMT11T308LF KC5025	B207
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2425871	WNMG060408MS K313	B158
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2428802	B966F12100 KC7315	G136
2428856	B966F12200 KC7315	G136
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2429564	STN1614NPT KC635M	W46
2429565	STN16115NPT KC635M	W46
2429570	STN1118NPTF KC635M	W46
2429571	STN1614NPTF KC635M	W46
2429572	STN16115NPTF KC635M	W46
2429575	STN1614NPS KC635M	W46
2429576	STN16115NPS KC635M	W46
2429582	STN1119BSW KC635M	W46
2429587	STN1614BSW KC635M	W46
2429588	STN1612BSW KC635M	W46
2429589	STN1611BSW KC635M	W46
2429593	STN2711BSW KC635M	W46
2429600	514.111	B138
2429601	514.112	B142, B165
2429602	514.118	B87–88, B111, B113, B135, B138, B163
2429633	514.122	B68, B73, B114, B120–121
2429634	514.123	B64–66, B68–69, B73, B111–113, B135, B138, B163, B165
2429635	514.124	B114
2429636	514.125	B64–65, B68, B111–113
2429637	514.128	B87–88, B91
2429638	514.133	B64–66, B111–113
2429639	514.138	B111
2429642	F3AA1000AWL45R300 K600	P122
2429673	F3AA1200AWL45R300 K600	P122
2429674	F3AA1600AWX45R300 K600	P122
2429675	F3AA2000AWX45R300 K600	P122
2429676	F3AA2500AWX45R300 K600	P122
2429851	CNMG120408CT KC5010	B48
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2429985	DNMG150408CT KC5010	B76
2430006	DNMG150612CT KC5010	B76
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2435186	WLLNL32CA30S	E55
2435187	WLFNR32CA19S	E55
2435188	WLFNL32CA19S	E55
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2435299	CNMG120412P KC5010	B52
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2435321	VNMG160408P KC5010	B146
2435322	WNMG080404P KC5010	B158
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2435325	DNMG150608P KC5010	B81
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2436798	B978A16200 KC7315	G148
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2438408	NG3125R KC5025	C154
2438663	BGHX15L5PCERGGTM KD1410	S148
2438664	BGHX15L5PCTRHET KD1410	S148
2438665	BGHX15L504ERGET KD1415	S149
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2439075	TRAOR2525M06	E65
2439076	TRAOL2525M06	E65
2439077	TRAOR3225P06	E65
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2439476	DWLNR2020K06KC04	B161
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2440527	KTIP160R8SS18M	H31
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2441927	A40TDWLNR08KC04	B163
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2441932	A32SDCLNL12KC04	B66
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2441938	A40TDCLNL16KC06	B66
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2442599	100Y06RK90SP10N14K	U32
2442600	100Y06LK90SP10N14K	U33
2442601	125H08NK90SP10N14K	U30

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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2442602	125H08RK90SP10N14K	U27
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2443438	125H08RK90SD12N18K	U40
2443439	125H08LK90SD12N18K	U41
2443440	125H08NK90SD12N20K	U43
2443443	125Y08NK90SP10N14K	U34
2443444	125Y08RK90SP10N14K	U32
2443445	125Y08LK90SP10N14K	U33
2443446	125Y08NK90SP10N16K	U35
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2443450	125Y08RK90SD12N18K	U44
2443451	125Y08LK90SD12N18K	U46
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2443454	125Y08LK90SD12N20K	U47
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2443461	160H10NK90SD12N18K	U42
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2447152	A32UPCLNR12	B68
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2447503	A32UPTFNL16	B138
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2453686	OFPT06L5AFSNHB KC725M	S51
2453687	OFKT06L5AFENGB KC725M	S50
2453688	OFKT06L5AFSNHB KC725M	S50
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2455056	B976A07300 KC7315	G140
2455057	B976A07700 KC7315	G140
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2455814	OFKT06L5AFENGB KCK15	S50
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2458936	SDET120432SNGB2 KCPK30	T104, T111, U52
2458937	SDET120432SNGB2 KC725M	T104, T111, U52
2458938	SDET120432SNGB2 KCK15	T104, T111, U52
2458939	SDET120432SNGB2 KC520M	T104, T111, U52
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2465832	125B18RF84SN12B	S102
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2466598	KSEM3700HPGM KC7315	H43
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2499798	KSEM2800HPGM KC7315	H43
2499800	KSEM2850HPGM KC7315	H43
2499802	KSEM2900HPGM KC7315	H43
2499803	KSEM2950HPGM KC7315	H43
2499807	KSEM3050HPGM KC7315	H43
2499810	KSEM3100HPGM KC7315	H43
2499811	KSEM3150HPGM KC7315	H43
2499813	KSEM3200HPGM KC7315	H43
2499814	KSEM3250HPGM KC7315	H43
2499818	KSEM3350HPGM KC7315	H43
2499820	KSEM3400HPGM KC7315	H43
2499822	KSEM3450HPGM KC7315	H43
2499824	KSEM3550HPGM KC7315	H43
2499826	KSEM3600HPGM KC7315	H43
2499828	KSEM3650HPGM KC7315	H43
2499831	KSEM3750HPGM KC7315	H43
2499834	KSEM3850HPGM KC7315	H43
2499835	KSEM3900HPGM KC7315	H43
2499836	KSEM3950HPGM KC7315	H43
2499837	OFKT07L6AFFNLNJ KC410M	S54
2499843	KSEM1508HPGM KC7315	H42
2499844	KSEM1548HPGM KC7315	H42
2499845	KSEM1588HPGM KC7315	H42
2499846	KSEM1609HPGM KC7315	H42
2499847	KSEM1627HPGM KC7315	H42
2499848	KSEM1667HPGM KC7315	H42
2499849	KSEM1707HPGM KC7315	H42
2499850	KSEM1746HPGM KC7315	H42
2499851	KSEM1786HPGM KC7315	H42
2499852	KSEM1826HPGM KC7315	H42
2499853	KSEM1865HPGM KC7315	H42
2499854	KSEM1905HPGM KC7315	H42
2499855	KSEM1927HPGM KC7315	H42
2499856	KSEM1945HPGM KC7315	H42
2499857	KSEM1984HPGM KC7315	H42
2499858	KSEM2024HPGM KC7315	H42
2499859	KSEM2064HPGM KC7315	H42
2499860	KSEM2143HPGM KC7315	H43
2499861	KSEM2183HPGM KC7315	H43
2499862	KSEM2223HPGM KC7315	H43
2499863	KSEM2244HPGM KC7315	H43
2499864	KSEM2342HPGM KC7315	H43
2499865	KSEM2381HPGM KC7315	H43

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
2499866	KSEM2461HPGM KC7315	H43
2499867	KSEM2540HPGM KC7315	H43
2499868	KSEM2567HPGM KC7315	H43
2499869	KSEM2619HPGM KC7315	H43
2499870	KSEM2659HPGM KC7315	H43
2499871	KSEM2778HPGM KC7315	H43
2499872	KSEM2818HPGM KC7315	H43
2499873	KSEM2858HPGM KC7315	H43
2499874	KSEM2937HPGM KC7315	H43
2499875	KSEM2977HPGM KC7315	H43
2499876	KSEM3016HPGM KC7315	H43
2499877	KSEM3056HPGM KC7315	H43
2499878	KSEM3096HPGM KC7315	H43
2499879	KSEM3175HPGM KC7315	H43
2499880	KSEM3254HPGM KC7315	H43
2499881	KSEM3294HPGM KC7315	H43
2499882	KSEM3334HPGM KC7315	H43
2499883	KSEM3373HPGM KC7315	H43
2499884	KSEM3413HPGM KC7315	H43
2499885	KSEM3493HPGM KC7315	H43
2499886	KSEM3572HPGM KC7315	H43
2499887	KSEM3612HPGM KC7315	H43
2499888	KSEM3651HPGM KC7315	H43
2499889	KSEM3731HPGM KC7315	H43
2499890	KSEM3810HPGM KC7315	H43
2499891	KSEM3846HPGM KC7315	H43
2499960	B977F03800 KC7315	G143
2500741	50A03R80A32SKE25	T79
2500876	LT16ERAG60K KU25T	D54
2500931	LT16NRAG60K KU25T	D67
2503543	A4ENN2020K0611	C118
2503544	A4ENN2525M0611	C118
2503545	A4ENN3232P0611	C118
2503550	A4SML2020K0317	C113
2503551	A4SMR2020K0317	C112
2503552	A4SML2020K0417	C113
2503553	A4SMR2020K0417	C112
2503554	A4SML2020K0620	C113
2503555	A4SMR2020K0620	C112
2503556	A4SML2016K0317	C113
2503557	A4SMR2016K0317	C112
2503559	A4SMR2016K0417	C112
2504223	KSEM1970HPGM KC7315	H42
2506705	B977A15200 KC7315	G141
2507899	KSEM2560HPM KC7315	H40
2509326	EDPT180508PDSRGD KC725M	T75
2509327	EDPT180508PDSRGD KCPK30	T75
2509328	EDPT180508PDSRGD KCK15	T75
2509387	EDPT180516PDSRGD KC725M	T75
2509388	EDPT180516PDSRGD KCPK30	T75
2509408	EDPT180532PDSRGD KC725M	T75
2509410	EDPT180532PDSRGD KCPK30	T75
2510390	125B09RS90ED14D	T50
2526351	KEGT25L531PEERLDJ KC410M	T82
2526385	KEGT25L508PEERLDJ KC410M	T82
2526387	KEGT25L564PEERLDJ KC410M	T82
2526391	KMSP825IP	B105–106
2526442	KLM81025IP	B105–106
2526757	KEGT25L516PEERLDJ KC410M	T82
2539334	CM184LP	C167, D27
2539335	CM185LP	C167, D27
2541018	KSEM1800PCM KC7135	H56, H87
2541019	KSEM1850PCM KC7135	H56
2541020	KSEM2300PCM KC7135	H56, H87
2541133	B707A07000FBG KC7315	G114
2541200	KRDEA046AM	K75
2541201	KRDEA051AM	K75
2541202	KRDEA012AM	K75
2541213	KRDE025010M	K76
2541214	KRDE033010M	K76
2541215	KRDE043010M	K76
2541216	KRDE065012M	K76
2541217	KRCW032A	K76
2541511	KSEM1300PCM KC7135	H56, H87
2541512	KSEM1350PCM KC7135	H56
2541535	B976A05530 KC7315	G139
2542517	A4M50R0314A036048	C125
2542518	A4M50R0314A042058	C125
2542519	A4M50R0314A052074	C125
2542520	A4M50R0314A068100	C125
2542521	A4M50R0314A090160	C125
2542522	A4M50R0314A130300	C125
2542523	A4M50R0314A290999	C125
2542524	A4M50L0314A036048	C126
2542527	A4M50L0314A068100	C126
2542528	A4M50L0314A090160	C126
2542529	A4M50L0314A130300	C126
2542530	A4M50L0314A290999	C126
2542531	A4M50R0414A048072	C125
2542532	A4M50R0414A064100	C125
2542533	A4M50R0414A092150	C125
2542534	A4M50R0414A132300	C125
2542535	A4M50R0414A290999	C125
2542537	A4M50L0414A064100	C126
2542538	A4M50L0414A092150	C126
2542539	A4M50L0414A132300	C126
2542540	A4M50L0414A290999	C126
2542541	A4M50R0519A058094	C125
2542542	A4M50R0519A080136	C125
2542543	A4M50R0519A120300	C125
2542544	A4M50R0519A250999	C125
2542545	A4M50L0519A058094	C126
2542546	A4M50L0519A080136	C126
2542547	A4M50L0519A120300	C126
2542548	A4M50L0519A250999	C126
2542822	KSEM2500PCM KC7135	H56, H87
2542849	KSEM3000PCM KC7135	H56, H87
2543238	B977F04650 KC7315	G143
2544200	SPCT10T3PPERLD2 KC520M	T100, U36
2544251	B977F03500 KC7315	G143
2544413	SDCT1204PDERLD2 KC520M	T104, T111, U51
2545095	OFKT07L6AFENLB KCPK30	S54
2545097	OFKT07L6AFSNLB KCPK30	S54
2546816	BGHX15L5PCSRLET KD1410	S148
2548776	KTIP080R8SS10M	H31
2548777	KTIP090R8SS10M	H31
2548778	KTIP095R8SS10M	H31
2548779	KTIP100R8SS12M	H31
2548780	KTIP105R8SS12M	H31
2548781	KTIP110R8SS12M	H31
2548782	KTIP115R8SS12M	H31
2548913	KTIP120R8SS14M	H31
2548914	KTIP125R8SS14M	H31
2548915	KTIP130R8SS14M	H31
2548916	KTIP135R8SS14M	H31
2548917	KTIP140R8SS16M	H31
2548918	KTIP145R8SS16M	H31
2548919	KTIP150R8SS16M	H31
2548920	KTIP080R8SCF12M	H32
2548921	KTIP085R8SCF12M	H32
2548922	KTIP090R8SCF12M	H32
2548923	KTIP095R8SCF12M	H32
2548924	KTIP100R8SCF16M	H32
2548925	KTIP105R8SCF16M	H32
2548926	KTIP110R8SCF16M	H32
2548927	KTIP115R8SCF16M	H32
2548928	KTIP120R8SCF16M	H32
2548929	KTIP125R8SCF16M	H32
2548930	KTIP130R8SCF16M	H32
2548931	KTIP135R8SCF16M	H32
2548932	KTIP140R8SCF16M	H32
2548933	KTIP145R8SCF16M	H32
2548934	KTIP150R8SCF20M	H32
2548935	KTIP160R8SCF20M	H32
2549023	NG3047L KC5010	C155
2549978	OFPT07L6AFENGB KC520M	S55
2579622	B976A06900 KC7315	G139
2582207	CTFPR20CA22	B378
2582790	B707A17000FBG KC7315	G115
2594849	B707A21000FBG KC7315	G115
2598759	NG3072R KC5010	C154
2598760	NG3072L KC5010	C155
2598761	NG3078R KC5010	C154
2598803	NG3088R KC5010	C154
2598804	NG3097R KC5010	C154
2598806	NG3105R KC5010	C154
2598807	NG3105L KC5010	C155
2598808	NG3125L KC5010	C155
2598809	NG3142R KC5010	C154
2598811	NG3156R KC5010	C154
2598813	NG3189L KC5010	C155
2598816	NGP3125R KC5010	C152
2598817	NGP3125L KC5010	C152
2598823	NGD3189L KC5010	C157
2598824	NG3062R KC5010	C154
2599495	NG4189R KC5010	C154
2599496	NR3031L KC5010	C158
2599497	NG4189L KC5010	C155
2599498	NG4250L KC5010	C155
2599501	NGP4250R KC5010	C152
2599504	NGD4250L KC5010	C157
2599505	NR4125R KC5010	C158
2599506	NR3047R KC5010	C158
2599507	NR3047L KC5010	C158
2599508	NR3062R KC5010	C158
2599509	NR3062L KC5010	C158
2599510	NRP3031R KC5010	C153
2599511	NRP3031L KC5010	C153
2599512	NRP3047R KC5010	C153
2599513	NRP3047L KC5010	C153
2599514	NRP3062R KC5010	C153
2599515	NRP3062L KC5010	C153
2599516	NRP3094R KC5010	C153
2599518	NRP3094L KC5010	C153
2599519	NG3047R KC5025	C154
2599521	NG3062R KC5025	C154
2599522	NG3062L KC5025	C155
2599523	NG3094R KC5025	C154
2599524	NG3094L KC5025	C155
2599525	NG3125L KC5025	C155
2599526	NG3156R KC5025	C154
2599527	NG3156L KC5025	C155
2599528	NG3189R KC5025	C154
2599529	NG3189L KC5025	C155
2599530	NR3031R KC5025	C158
2599531	NR3031L KC5025	C158
2599534	NR3062R KC5025	C158
2599535	NR3062L KC5025	C158
2599536	NRD4062R KC5010	C159
2599537	NRD4062L KC5010	C159
2599538	NRD4094R KC5010	C159
2599539	NRD4094L KC5010	C159
2599540	NRD4125L KC5010	C159
2599550	NR4125L KC5010	C158
2599571	NG2031R KC5010	C154
2599572	NG2031L KC5010	C155
2599743	NG2041R KC5010	C154
2599744	NG2041L KC5010	C155
2599745	NG2047R KC5010	C154
2599746	NG2047L KC5010	C155
2599748	NG2094R KC5010	C154
2599749	NG2094L KC5010	C155
2599750	NG2125R KC5010	C154
2599751	NG2125L KC5010	C155
2599752	NGP2031R KC5010	C152
2599757	NR2031R KC5010	C158
2599758	NR2031L KC5010	C158
2599759	NR2062R KC5010	C158
2599760	NR2062L KC5010	C158
2599761	NG2031R KC5025	C154
2599765	NG2062R KC5025	C154
2599887	B976A04100 KC7315	G138
2603030	KSEM2430HPGM KC7315	H43
2604354	RNMG120400RN KC5010	B94
2605709	B977F03000 KC7315	G143
2607377	B707A10000FBG KC7315	G115
2613785	25A02R050A25SED18-170	T71
2613786	32A03R050A32SED18-200	T71
2613787	40A04R050A32SED18-200	T71
2613788	32A02R050A32SED18-200	T71
2613789	40A03R050A32SED18-200	T71
2613790	3.41020R904 KC7315	I16
2613791	3.41020R901 KC7315	I15
2613792	3.41020R902 KC7315	I15
2613858	B967A14000 KC7315	G134
2614817	B976A07100 KC7315	G139
2615043	3.41020R903 KC7315	I15
2615044	3.41220R904 KC7315	I16
2615045	3.41220R901 KC7315	I15
2615046	3.41220R902 KC7315	I15
2615047	3.41220R903 KC7315	I15
2616697	KSEM2215HPGM KC7315	H43
2618743	170.314	H31–32
2619033	B707A05560FBG KC7315	G114
2620169	B978A04600 KC7315	G146
2622232	20A02R039B20SED14	T48
2623070	B707A16000FBG KC7315	G115
2623553	B256A05100 KC7315	G63
2623860	KSEM2000PCM KC7135	H56, H87
2623933	40A05R050B32SED14	T48
2623934	40A05RS90ED14D	T50
2623935	100A10RS90ED14D	T50
2623936	125B12RS90ED14D	T50
2623937	25A02R044B25SED14	T48
2623938	32A03R050B32SED14	T48
2623939	40A04R050B32SED14	T48
2623940	40A04RS90ED14D	T50
2623941	50A05RS90ED14D	T50
2623942	63A06RS90ED14D	T50
2623963	80A07RS90ED14D	T50
2623964	100A08RS90ED14D	T50
2623965	160C11RS90ED14D	T50
2625682	B256A07000 KC7315	G63
2625713	F3BA0600ADL40E180 K600	P125
2625714	F3BA0800ADL40E240 K600	P125
2625715	F3BA1000ADL40E300 K600	P125
2625716	F3BA1200ADL40E360 K600	P125
2625717	F3BA1600ADL40E480 K600	P125
2625718	F3BA2000ADL40E600 K600	P125
2625743	B256A08000 KC7315	G63
2627240	B967A12000 KC7315	G134
2627513	F4AW0400AWL38W040 KC633M	P22
2627514	F4AW0500AWL38W040 KC633M	P22
2627515	F4AW0600AWL38W040 KC633M	P22
2627516	F4AW0800AWL38W040 KC633M	P22
2627517	F4AW1000AWX38W040 KC633M	P22
2627518	F4AW0400AWL38W060 KC633M	P22
2627519	F4AW0500AWL38W060 KC633M	P22
2627520	F4AW0600AWL38W060 KC633M	P22
2627521	F4AW0800AWL38W060 KC633M	P22
2627522	F4AW1000AWX38W060 KC633M	P22
2628928	B707A11570FBG KC7315	G115
2629032	B707A04900FBG KC7315	G114
2629368	B707A12000FBG KC7315	G115
2633016	B707A18000FBG KC7315	G115
2633730	KTIP080R3BF08M	I11
2633731	KTIP090R5BF10M	I13
2633732	KTIP160R3BF17M	I11
2634374	3.77000R224V	J75
2634375	3.77000R227V	J75
2634376	3.77000R229V	J75
2634377	3.77000R231V	J75
2634378	3.77000R239V	J75
2634379	3.77000R249V	J75
2634380	3.77000R251V	J75
2634381	3.77000R253V	J75
2634382	3.77000R274V	J75
2634413	3.77000R276V	J75
2634414	3.77000R278V	J75
2634415	3.77000R280V	J75
2634416	3.77000R282V	J75
2634417	3.77000R284V	J75
2634418	3.77000R286V	J75
2634419	3.77000R288V	J75
2634568	B707A07500FBG KC7315	G114
2635436	B977A15300 KC7315	G141
2636514	B707A12800FBG KC7315	G115
2636741	S2160	V82
2636814	MS1235CG	T80
2637756	MS2060	S34
2637805	F7IP	T29, T38
2639052	B707A11800FBG KC7315	G115
2639144	B707A15250FBG KC7315	G115
2639491	KSEM3900PCM KC7135	H56, H87
2641904	B966A16500 KC7315	G134
2643468	B977F03400 KC7315	G143
2646000	B707A15000FBG KC7315	G115
2646064	KSEM1280PCM KC7135	H56
2646067	KSEM1380PCM KC7135	H56
2646068	KSEM1400PCM KC7135	H56, H87
2646069	KSEM1410PCM KC7135	H56
2646072	KSEM1450PCM KC7135	H56
2646073	KSEM1460PCM KC7135	H56
2646074	KSEM1480PCM KC7135	H56
2646075	KSEM1500PCM KC7135	H56, H87

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
2646077	KSEM1550PCM KC7135	H56
2646078	KSEM1560PCM KC7135	H56
2646080	KSEM1580PCM KC7135	H56
2646081	KSEM1600PCM KC7135	H56, H87
2646082	KSEM1620PCM KC7135	H56
2646083	KSEM1650PCM KC7135	H56
2646084	KSEM1700PCM KC7135	H56, H87
2646085	KSEM1900PCM KC7135	H56, H87
2646086	KSEM1950PCM KC7135	H56
2646087	KSEM2050PCM KC7135	H56
2646088	KSEM2100PCM KC7135	H56, H87
2646089	KSEM2150PCM KC7135	H56
2646090	KSEM2200PCM KC7135	H56, H87
2646091	KSEM2250PCM KC7135	H56
2646092	KSEM2350PCM KC7135	H56
2646093	KSEM2400PCM KC7135	H56, H87
2646094	KSEM2450PCM KC7135	H56
2646095	KSEM2550PCM KC7135	H56
2646096	KSEM2650PCM KC7135	H56
2646097	KSEM2700PCM KC7135	H56, H87
2646099	KSEM2800PCM KC7135	H56, H87
2646100	KSEM2850PCM KC7135	H56
2646101	KSEM2900PCM KC7135	H56, H87
2646102	KSEM2950PCM KC7135	H56
2646103	KSEM3050PCM KC7135	H56
2646104	KSEM3100PCM KC7135	H56, H87
2646106	B343S12200HPG KC7315	I10
2646108	B343S12500HPG KC7315	I10
2646109	B343S12700HPG KC7315	I10
2646110	B343S12800HPG KC7315	I10
2646111	B343S13000HPG KC7315	I10
2646112	B343S06100HPG KC7315	I8
2646253	B343S06200HPG KC7315	I8
2646254	B343S06300HPG KC7315	I8
2646255	B343S06350HPG KC7315	I8
2646256	B343S06400HPG KC7315	I8
2646257	B343S06500HPG KC7315	I8
2646258	B343S06528HPG KC7315	I8
2646259	B343S06600HPG KC7315	I8
2646260	B343S06700HPG KC7315	I8
2646261	B343S06746HPG KC7315	I9
2646262	B343S06800HPG KC7315	I9
2646263	B343S06900HPG KC7315	I9
2646265	B343S07000HPG KC7315	I9
2646266	B343S07145HPG KC7315	I9
2646267	B343S07300HPG KC7315	I9
2646268	B343S07400HPG KC7315	I9
2646269	B343S07500HPG KC7315	I9
2646270	B343S07541HPG KC7315	I9
2646272	B343S07800HPG KC7315	I9
2646273	B343S07900HPG KC7315	I9
2646274	B343S07938HPG KC7315	I9
2646275	B343S08000HPG KC7315	I9
2646276	B343S03175HPG KC7315	I8
2646277	B343S03400HPG KC7315	I8
2646278	B343S03500HPG KC7315	I8
2646279	B343S03797HPG KC7315	I8
2646280	B343S03800HPG KC7315	I8
2646281	B343S03970HPG KC7315	I8
2646282	B343S04000HPG KC7315	I8
2646333	B343S04100HPG KC7315	I8
2646334	B343S04200HPG KC7315	I8
2646335	B343S04300HPG KC7315	I8
2646336	B343S04500HPG KC7315	I8
2646337	B343S04600HPG KC7315	I8
2646338	B343S04623HPG KC7315	I8
2646339	B343S04763HPG KC7315	I8
2646340	B343S04900HPG KC7315	I8
2646341	B343S05000HPG KC7315	I8
2646342	B343S05100HPG KC7315	I8
2646343	B343S05200HPG KC7315	I8
2646344	B343S05300HPG KC7315	I8
2646345	B343S05400HPG KC7315	I8
2646346	B343S05410HPG KC7315	I8
2646347	B343S05500HPG KC7315	I8
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2659236	A4G250I06P2T0425 KY3500	B300, C100
2659238	A4R0300M03P00T01025 KY3500	B300, C100

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
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2979110	A4C0205L10CF02 KC5025	C103
2979111	A4C0205N00CF02 KC5025	C102
2979112	A4C0205R06CF02 KC5025	C103
2979192	A20RA4EML0207M	C119
2979216	A4C0255N00CF02 KC5025	C102
2979217	A4C0255R06CF02 KC5025	C103
2979223	A20RA4EMR0207M	C119
2979224	A25RA4EML0210M	C119
2979225	A25RA4EMR0210M	C119
2980526	EDPT140412PDSRGD KCPK30	T54, T63
2980527	EDPT140412PDSRGD KC520M	T54, T63
2980530	EDPT140408PDSRGD KC520M	T54, T63
2980531	EDPT140408PDSRGD KCPK30	T54, T63
2980568	EDPT140412PDSRGD KC725M	T54, T63
2981644	EDPT140408PDSRGD KC725M	T54, T63
2982018	OFKT07L6AFSNLB KC725M	S54
2982019	OFKT07L6AFENLB KC725M	S54
2982020	OFKT06L5AFSNLB KC725M	S50
2982021	OFKT06L5AFENLB KC725M	S50
2982065	OFKT07L6AFENLB KC522M	S54
2982069	OFKT06L5AFSNLB KC522M	S50
2982070	OFKT06L5AFSNLB KC520M	S50
2982072	OFKT06L5AFSNLB KCPK30	S50
2982077	EDPT140416PDSRGD KC725M	T54, T63
2982084	OFKT06L5AFENLB KC522M	S50
2982086	OFKT06L5AFENLB KCK15	S50
2982087	OFKT06L5AFENLB KCPK30	S50
2982090	EDPT140416PDSRGD KC520M	T54, T63
2982091	EDPT140416PDSRGD KCPK30	T54, T63
2982168	A4SCL2020K0113	C114
2982169	A4SCL1616K0113	C114
2982170	A4SCL1212K0113	C114
2982172	A4SCR2020K0113	C114
2982223	A4SCR1616K0113	C114
2982224	A4SCR1010K0113	C114
2983278	EDCT140408PDERLD KC522M	T52, T61
2983279	EDCT140408PDFRLDJ KC410M	T51, T60
2983331	EDCT140408PDERGD KC725M	T52, T61
2983890	EDCT140404PDERGD KC725M	T52, T61
2983891	EDCT140431PDERGD KC725M	T52, T61
2983980	A4G0205M02U02GMN KC5010	C96
2983981	A4G0205M02U02GMN KC5025	C96
2983982	A4G0205M02U02GMP KC5010	C95
2984013	A4G0205M02U02GMP KC5025	C95
2984015	A4G0200M02P02GMP KC5010	C95
2984016	A4G0200M02P02GMP KC5025	C95
2984018	A4G0255M2BU02GMN KC5025	C96
2984020	A4G0255M2BU02GMP KC5025	C95
2984022	A4G0250M2BP02GMP KC5010	C95
2984024	A4R0205M02U00GMN KC5010	C97
2984025	A4R0205M02U00GMN KC5025	C97
2984026	A4R0200M02P00GMP KC5010	C96
2984027	A4R0200M02P00GMP KC5025	C96
2984028	A4G0941I2BP05GMN KC5010	C97
2984053	EDCT140404PDERLD KC522M	T52, T61
2984054	EDCT140404PDFRLDJ KC410M	T51, T60
2984056	EDCT140431PDERLD KC522M	T52, T61
2984057	EDCT140431PDFRLDJ KC410M	T51, T60
2984137	EDCT140412PDERLD KC522M	T52, T61
2984138	EDCT140412PDFRLDJ KC410M	T51, T60
2984210	EDCT140412PDERGD KC725M	T52, T61
2984359	EDCT140416PDERLD KC522M	T52, T61
2984360	EDCT140416PDFRLDJ KC410M	T51, T60
2984773	EDCT140416PDERGD KC725M	T52, T61
2985272	B707A03500FBG KC7315	G114
2985333	B707A04500FBG KC7315	G114
2985334	B707A06500FBG KC7315	G114
2985335	B707A09500FBG KC7315	G115
2985336	B707A14000FBG KC7315	G115
2985682	193.465	S131–132
2985873	193.464	S131–132
2985874	193.461	S110, S131–132
2985875	193.460	S132
2985876	193.462	S132
2985878	470.269	S132
2985879	470.270	S132
2985880	470.271	S132
2985881	470.272	S132
2985882	470.273	S132
2987166	MSKNR25CA19	B115
2993398	B707A07800FBG KC7315	G114
3003873	KDMT1210ERGC KC515M	V132
3005898	B967A11000 KC7315	G133
3005899	B967A13500 KC7315	G134
3005956	B976A03100 KC7315	G138
3013657	KSEM1880HPGM KC7315	H42
3015439	DFR030204MD KC7140	J84
3015440	DFR040304MD KC7140	J84
3016028	KSEM2305HPGM KC7315	H43
3017334	A4SML2525M0217	C113
3017335	A4SML2525M0214	C113
3017336	A4SML2020K0214	C113
3017337	A4SML2020K0217	C113
3017338	A4SML1616K0214	C113
3017339	A4SMR2525M0217	C112
3017340	A4SMR2525M0214	C112
3017341	A4SMR2020K0214	C112
3017342	A4SMR1616K0214	C112
3017663	KTIP170R3SS18M	H31
3017664	KTIP180R3SS20M	H31
3017665	KTIP190R3SS20M	H31
3017666	KTIP200R3SS25M	H31

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
3017667	KTIP170R3SCF20M	H32
3017668	KTIP180R3SCF25M	H32
3017669	KTIP190R3SCF25M	H32
3017670	KTIP200R3SCF25M	H32
3017671	KTIP170R5SS18M	H31
3017672	KTIP180R5SS20M	H31
3017673	KTIP190R5SS20M	H31
3017674	KTIP200R5SS25M	H31
3017675	KTIP170R5SCF20M	H32
3017676	KTIP180R5SCF25M	H32
3017677	KTIP190R5SCF25M	H32
3017678	KTIP200R5SCF25M	H32
3020201	B707A10600FBG KC7315	G115
3021212	MS1242CG	T80, V72, V78, V82, V139
3022625	A4M50L0214M	C124
3023165	EDPT180548PDERHD KC725M	T75
3023166	EDPT180548PDERHD KCPK30	T75
3023574	KSEM2210HPGM KC7315	H43
3024727	B707A10200FBG KC7315	G115
3024745	B966A13100 KC7315	G134
3026450	12MHC030M	G85
3026451	12MHC040M	G85
3026452	12MHC050M	G85
3026643	12MHC060M	G85
3026644	12MHC070M	G85
3026645	12MHC080M	G85
3026646	12MHC090M	G85
3026647	12MHC100M	G85
3026648	20MHC030M	G85
3026649	20MHC040M	G85
3026650	20MHC050M	G85
3026651	20MHC060M	G85
3026652	20MHC070M	G85
3026653	20MHC080M	G85
3026654	20MHC090M	G85
3026655	20MHC100M	G85
3026656	20MHC110M	G85
3026657	20MHC120M	G85
3026658	20MHC130M	G85
3026659	20MHC140M	G85
3026660	20MHC150M	G85
3026661	20MHC160M	G85
3026662	25MHC030M	G85
3026663	25MHC040M	G85
3026664	25MHC050M	G85
3026665	25MHC060M	G85
3026666	25MHC070M	G85
3026667	25MHC080M	G85
3026668	25MHC090M	G85
3026669	25MHC100M	G85
3026670	25MHC120M	G85
3026671	25MHC140M	G85
3026672	25MHC160M	G85
3026675	32MHC060M	G85
3026676	32MHC070M	G85
3026677	32MHC080M	G85
3026678	32MHC090M	G85
3026679	32MHC100M	G85
3026680	32MHC110M	G85
3026681	32MHC120M	G85
3026682	32MHC130M	G85
3026683	32MHC140M	G85
3026684	32MHC150M	G85
3026685	32MHC160M	G85
3027980	KSEM1760HPGM KC7315	H42
3029371	PKG1402	K126
3029372	PKG1602	K126
3029373	PKG1802	K126
3029375	PKG0011	K126
3030845	TM25D17L26Z2	W10
3030846	TM25D17L36Z2	W10
3030847	TMT25D17L26Z2	W11
3030848	TM25D20L37Z3	W10
3030849	TM25D20L44Z3	W10
3030850	TM25D22L43Z3	W10
3030851	TMT25D22L43Z3	W11
3030852	TM25D22L55Z3	W10
3031703	TM25D30L55Z5	W10
3031704	TMT25D28L43Z4	W11
3031705	TMC25D30L80Z4	W10
3031717	TM25INSERTSCREW	W4–5, W10–13, W17–19, W24–25
3031718	TM25N100ISO KC610M	W14
3031719	TM25N150ISO KC610M	W14
3031720	TM25N200ISO KC610M	W14
3031721	TM25N250ISO KC610M	W14
3031722	TM25N300ISO KC610M	W14
3031733	TM25N20UN KC610M	W14
3031734	TM25N18UN KC610M	W14
3031735	TM25N16UN KC610M	W14
3031736	TM25N14UN KC610M	W14
3031737	TM25N12UN KC610M	W14
3031738	TM25N10UN KC610M	W14
3031739	TM25N9UN KC610M	W14
3031740	TM25N8UN KC610M	W14
3031742	TM25EN14W KC610M	W15
3031743	TM25EN12W KC610M	W15
3031744	TM25EN11W KC610M	W15
3031745	TM25EN14NPT KC610M	W15
3031746	TM25EN115NPT KC610M	W15
3031747	TM25EN14BSPT KC610M	W15
3031748	TM25EN11BSPT KC610M	W15
3031749	TM25N100ISO KC635M	W14
3031750	TM25N150ISO KC635M	W14
3031751	TM25N200ISO KC635M	W14
3031752	TM25N250ISO KC635M	W14
3031753	TM25N300ISO KC635M	W14
3031754	TM25N20UN KC635M	W14
3031756	TM25N16UN KC635M	W14
3031757	TM25N14UN KC635M	W14
3031758	TM25N12UN KC635M	W14
3031759	TM25N10UN KC635M	W14
3031760	TM25N9UN KC635M	W14
3031761	TM25N8UN KC635M	W14
3031763	TM25EN14W KC635M	W15
3031765	TM25EN11W KC635M	W15
3031766	TM25EN14NPT KC635M	W15
3031767	TM25EN115NPT KC635M	W15
3031770	TM25BLANK	W15
3031908	T320NC03750-16R3BX KC7542	M4
3031910	T320NC04375-14R3BX KC7542	M4
3031911	T320NC05000-13R3BX KC7542	M4
3031914	T320M060X100R6HX KC7542	M4
3031915	T320M080X125R6HX KC7542	M4
3031916	T320M100X150R6HX KC7542	M4
3031917	T320M120X175R6HX KC7542	M4
3031919	T320M160X200R6HX KC7542	M4
3032732	EDPT140412PDERHD KC520M	T53, T62
3033394	RCGT2006M0ELF KC725M	V83
3033723	EDPT140412PDERHD KC522M	T53, T62
3033724	EDPT140412PDERHD KC725M	T53, T62
3033725	EDPT140412PDERHD KCK15	T53, T62
3033726	EDPT140412PDERHD KCPK30	T53, T62
3033727	EDPT140408PDERHD KC520M	T53, T62
3033728	EDPT140408PDERHD KC522M	T53, T62
3033729	EDPT140408PDERHD KC725M	T53, T62
3033730	EDPT140408PDERHD KCK15	T53, T62
3033731	EDPT140408PDERHD KCPK30	T53, T62
3033751	EDPT140416PDERHD KC522M	T53, T62
3033752	EDPT140416PDERHD KC725M	T53, T62
3033953	EDPT140416PDERHD KCK15	T53, T62
3033954	EDPT140416PDERHD KCPK30	T53, T62
3033966	B707A06800FBG KC7315	G114
3039409	KSEM3400PCM KC7135	H56, H87
3039410	KSEM3600PCM KC7135	H56, H87
3040265	B978F13000 KC7315	G149
3041312	B707A06100FBG KC7315	G114
3043177	B977F03200 KC7315	G143
3043944	KSEM3500PCM KC7135	H56, H87
3047641	T320MF140X150R6HX KC7542	M4
3048803	KSEM3300PCM KC7135	H56, H87
3050716	DFR020204MD KC7140	J84
3051244	EDPT140420PDERHD KC522M	T53, T62
3051245	EDPT140420PDERHD KC725M	T53, T62
3051246	EDPT140420PDERHD KCPK30	T53, T62
3051247	EDPT140431PDERHD KC522M	T53, T62
3051248	EDPT140431PDERHD KC725M	T53, T62
3051249	EDPT140431PDERHD KCPK30	T53, T62
3051250	EDPT140440PDERHD KC522M	T53, T62
3051251	EDPT140440PDERHD KC725M	T53, T62
3051252	EDPT140440PDERHD KCPK30	T53, T62
3051549	EDPT140424PDERHD KC522M	T53, T62
3051550	EDPT140424PDERHD KC725M	T53, T62
3051551	EDPT140424PDERHD KCPK30	T53, T62
3051552	EDPT140404PDERHD KC522M	T53, T62
3051623	A4M50L2B14M	C124
3051624	A4M50R0214M	C124
3051629	A4M50L0212A060084	C126
3051631	A4M50L0212A120254	C126
3051632	A4M50L0212A250999	C126
3051663	A4M50L0212B036046	C128
3051664	A4M50L0212B042054	C128
3051665	A4M50L0212B050064	C128
3051666	A4M50L0212B060084	C128
3051667	A4M50L0212B080124	C128
3051668	A4M50L0212B120254	C128
3051670	A4M50R0212A036046	C125
3051671	A4M50R0212A042054	C125
3051672	A4M50R0212A050064	C125
3051673	A4M50R0212A060084	C125
3051674	A4M50R0212A080124	C125
3051675	A4M50R0212A120254	C125
3051676	A4M50R0212A250999	C125
3051677	A4M50R0212B036046	C127
3051678	A4M50R0212B042054	C127
3051679	A4M50R0212B050064	C127
3051680	A4M50R0212B060084	C127
3051681	A4M50R0212B080124	C127
3051682	A4M50R0212B120254	C127
3051683	A4M50R0212B250999	C127
3051863	EDPT140404PDERHD KC725M	T53, T62
3051864	EDPT140404PDERHD KCK15	T53, T62
3051865	EDPT140404PDERHD KCPK30	T53, T62
3051866	EDPT140404PDERHD KC520M	T53, T62
3053564	SDET120412PDENGDZ KCPK30	V141
3053565	SDET120412PDSNGDZ KCPK30	V141
3055223	B707A13500FBG KC7315	G115
3055230	50A04RS90SD12PL	V139
3057117	B978A03700 KC7315	G146
3057121	B978A07400 KC7315	G147
3057122	B978A09300 KC7315	G147
3058199	KSEM2560HPGM KC7315	H43
3058984	B707A04400FBG KC7315	G114
3061071	B978F14000 KC7315	G149
3063843	50A05RS90SD12PL	V139
3064110	40M3R050M16SSD12PL	V137
3064549	KSEM2470HPGM KC7315	H43
3066053	A4G0605M06U04B KCK20	C98
3066133	SDET120412PDENGDZ KC725M	V141
3066281	SDET120412PDSNGDZ KC725M	V141
3066375	SDET120412PDSNGDZ KC522M	V141
3077140	SF150FBHO1660	K125
3077141	SF100FBHO1660	K125
3093561	HNGJ0905ANENLD KC522M	S18, S22
3093719	HNGJ0905ANSNGD KCPK30	S18, S23
3094010	843.006.000	K120–122, K136
3094035	880.252.200	K133, K135
3095646	63A04RS90RC20C	V82
3095647	80A05RS90RC20C	V82
3095649	100B06RS90RC20C	V82
3095650	125B06RS90RC20C	V82
3095651	160C07RS90RC20C	V82
3095652	160C08RS90RC20C	V82
3095653	200C09RS90RC20C	V82
3097294	KSEM1660HPGM KC7315	H42
3097295	KSEM1860HPGM KC7315	H42
3098071	B707A04200FBG KC7315	G114
3101753	KIPR032RP12MF03	V153
3101754	KIPR032RP12CF03	V154
3101755	KIPR040RP12CF04	V154
3102669	B977A08020 KC7315	G140
3106096	SDPT120412PDENHPZ KCPK30	V141
3106097	SDPT120412PDSNHPZ KCPK30	V141
3106098	SDPT120412PDENHPZ KC725M	V141
3106099	SDPT120412PDSNHPZ KC725M	V141
3110522	B976A03200 KC7315	G138
3110544	B976A03600 KC7315	G138
3110545	B976A07200 KC7315	G140
3111542	32M2R050M16SSD12PL	V137
3114313	KTIP170R8SS18M	H31
3114314	KTIP180R8SS20M	H31
3114315	KTIP190R8SS20M	H31
3114316	KTIP200R8SS25M	H31
3114317	KTIP170R8SCF20M	H32
3114318	KTIP180R8SCF25M	H32
3114319	KTIP190R8SCF25M	H32
3114320	KTIP200R8SCF25M	H32
3114636	RIQ09E1312 KC6305	K55
3115582	KSOM63R050F07	S53
3115873	KSOM63R040F07	S53
3115874	KSOM80R060F07	S53
3115875	KSOM80R040F07	S53
3115876	KSOM100R080F07	S53
3115877	KSOM100R050F07	S53
3115878	KSOM125R100F07	S53
3115879	KSOM125R060F07	S53
3115880	KSOM160R120F07	S53
3115881	KSOM160R070F07	S53
3115882	KSOM32R03B250F06	S47
3115893	KSOM32R03B200F06	S47
3115894	KSOM32R02B200F06	S47
3115897	KSOM40R04B320F06	S47
3115898	KSOM40R04B250F06	S47
3115899	KSOM40R03B250F06	S47
3115903	KSOM50R040F06	S48
3115905	KSOM63R050F06	S48
3115907	KSOM80R060F06	S48
3115908	KSOM100R100F06	S48
3115909	KSOM100R070F06	S48
3115910	KSOM125R120F06	S48
3115911	KSOM125R080F06	S48
3115912	KSOM160R160F06	S48
3115913	KSOM160R100F06	S48
3117503	B967A09500 KC7315	G133
3119977	B976A10300 KC7315	G140
3120265	63A05RS90SD12PL	V139
3120266	63A06RS90SD12PL	V139
3120267	80A05RS90SD12PL	V139
3120268	80A06RS90SD12PL	V139
3120269	80A07RS90SD12PL	V139
3120270	100B07RS90SD12PL	V139
3120318	KSEM2170HPGM KC7315	H43
3120574	125B09RS90SD12PL	V139
3120577	160C10RS90SD12PL	V139
3120845	100B10RF84SN12B	S102
3121225	193.492	S4–5, S8–10, S14, S17, S20–21, S60, S62, V53–56, V64
3121287	B976A06700 KC7315	G139
3123992	RCGT2006M0SHF KC725M	V83
3124023	RCGT2006M0SHF KCPK30	V83
3124549	193.491	J23, J25, J27, J29, J31, J33, J35, J37

Dizin

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
3124699	EDPT180564PDSRGD KC725M	T75
3127186	NAS3L4 KC5025	D13
3127866	B978F07400 KC7315	G149
3133459	MS1294CG	V64, V72
3135660	B256A12500 KC7315	G63
3136510	EDPT180540PDERHD KC725M	T75
3138954	SNXF120412AMSN KY3500	S105
3138955	SNXF1204ZNAMSN KY3500	S105
3139149	843.009.000	K120–122, K136
3176219	KM25LSSR2230	D83
3176220	KM25LSSL2230	D83
3176596	TRM50R0640M	E65
3176598	TRM50L0640M	E65
3176599	TRM50L0432M	E65
3176600	TRM50R0432M	E65
3176601	TRM50R0920M	E65
3176602	TRM50L0920M	E65
3176604	TRM50R0940M	E65
3176605	TRM50R0620M	E65
3176606	TRM50L0620M	E65
3176688	MS2173	B199, B202, B204–205
3176689	MS2175	B199–205, B229, B260–262
3180571	B977A14100 KC7315	G141
3273589	EDCT140402PDFRLDJ KC410M	T51, T60
3273590	EDCT140440PDFRLDJ KC410M	T51, T60
3287987	CSWM 035 040	B199, B202, B204–205
3287988	CSWM 040 050	B199–205, B229, B260–262
3287989	CSWM 060 050	B70–73, B92, B115–121, B139–142, B183, B199, B202, B220–221, B229, B235–237, B240–242, B260–263, B375–378, C171, D41–42
3287990	CSWM 080 050	B70–73, B92–93, B115–117, B119, B139–141, B183, B235, B378
3287991	CSWM 100 080	B72, B115, B119, C171, D41–42
3292774	EDCT180508PDERLDJ KC422M	T73
3292775	EDCT180524PDERLDJ KC422M	T73
3300212	B707A05800FBG KC7315	G114
3322050	B707A10500FBG KC7315	G115
3322370	CFM0402R45RHP KCU40	H34
3324493	KTIP170R3BF17M	I11
3324494	KTIP170R3BF18M	I11
3324495	KTIP180R3BF18M	I11
3324496	KTIP170R4BF18M	I12
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3331176	HNGJ0905ANSNGD KC725M	S18, S23
3331178	HNGJ0905ANENLD KCPK30	S18, S22
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3331279	80A08RF84SN12B	S102
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3348768	40A05R050A32SED14	T49
3349309	HNEN0905ANSN KD200	S92, S98
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3349688	40A04R050A32SED18	T71
3349689	32A03R050A25SED18	T71
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3349691	32A02R040M16SED18	T69
3349692	32A03R040M16SED18	T69
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3349774	40A04R040M16SED18	T69
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3381625	KSEM3800HPLM KC7320	H51
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
3381627	KSEM3900HPLM KC7320	H51
3381628	KSEM2567HPLM KC7320	H51
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3387935	NR2M050R KC5010	C158
3387936	NR2M075R KC5010	C158
3387937	NR2M100R KC5010	C158
3388407	NR2M100L KC5025	C158
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3399619	KSEM3700PCM KC7135	H56, H87
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3400611	MS2191C00	T58–59, V72, V137–138, V140
3400612	MS2191C06	T58–59, V137–138, V140
3400613	MS2191C08	T58–59, V137–138, V140
3400616	MS2191C12	T58–59, V137–140
3400617	MS2191C14	T58–59, V137–138, V140
3400618	MS2191C16	T58–59, V137–138, V140
3400619	MS2191C18	T58–59, V137–138, V140
3400620	MS2191C20	T57–59, V137–140
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3450356	MS2189C	S10, S14, S17, S21, S25, S48, S53, S60, S62, T17, V139
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3482962	T331NC3750-16R3BX KC7542	M22
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3528128	B976A06530 KC7315	G139
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3528131	B976A08430 KC7315	G140
3528132	B976A09750 KC7315	G140
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3547035	XNGJ0905ANSNGD3W KCPK30	S22
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3553432	KGMSL3232P65	C129
3553453	KGMER2525M65	C130
3553454	KGMEL2525M65	C130
3553455	KGMER3232P65	C130
3553456	KGMEL3232P65	C130
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3554367	CV40BKR50236	K86
3554368	CV50BKR32157	K86
3554369	CV50BKR50157	K86
3554370	CV50BKR63236	K86
3554371	CV50BKR80275	K86
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3554373	BT40BKR50050M	K86
3554374	BT50BKR32040M	K86
3554375	BT50BKR50040M	K86
3554376	BT50BKR63060M	K86
3554377	BT50BKR80060M	K86
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3556331	HNGJ0905ANSNHD KC725M	S19, S23
3556332	HNGJ0905ANSNHD KCPK30	S19, S23
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3556349	MB50RBHT09F	K120
3556350	MB66RBHT12F	K120
3556352	MB66RBHT12LF	K120
3556373	HNGJ090543ANSNHD KCK15	S19, S23
3556374	HNGJ090543ANSNHD KC725M	S19, S23
3556375	HNGJ090543ANSNHD KCPK30	S19, S23
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3556394	MB87RBHT16LF	K120
3556395	MB115RBHT12F	K120
3556396	MB115RBHT16LF	K120
3556397	MB24RBHT06K	K121

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
3556398	MB30RBHT06K	K121
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3556402	MB66RBHT12LK	K121
3556403	MB87RBHT12K	K121
3556404	MB87RBHT16LK	K121
3556405	MB115RBHT16LK	K121
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3557115	A4M65L0620M	C124
3557116	A4M65R0626M	C124
3557117	A4M65L0626M	C124
3557119	A4M65L0820M	C124
3557120	A4M65R0826M	C124
3557121	A4M65L0826M	C124
3557123	A4M65L1020M	C124
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3560482	SDET120464SNGB2 KCPK30	T104, T111, U52
3563231	B707A12700FBG KC7315	G115
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3577121	KTMS25S25SD06H	U3
3577133	KTMS32S32SD08H	U3
3577135	KTMS40S32SD12H	U3
3577137	KTMS50S32SD12H	U3
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3586580	HSK63FBHS24	K133
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3586585	HSK63FBHS87	K133
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3587695	880.252.320	K133–134
3587698	881.252.420	K133–134
3587699	880.252.420	K133–134
3587703	881.252.940	K133
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3587711	841.342.420	K118–119
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3587713	848.420.614	K120–122
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3587723	848.720.000	K120–122
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3587754	KSHR315C24RS45HN09	S21
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3593676	MS2207	U3
3593681	MS2208	U3
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3594438	B977F03600 KC7315	G143
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3595786	MCLNL3232P12	B62
3595787	MCLNR3232P16	B62
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3612138	H50SDUCR11	B213
3612139	H50SDUCL11	B213
3612156	H32MCLNR12	B68
3612178	H50MCLNR12	B68
3612192	H50MDUNL19	B91
3612215	H40MVUNR16	B153
3612219	H50MVUNR16	B153
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3612260	MWLNL3232P08	B162
3612649	MVJNR3232P16	B151
3612650	MVJNL3232P16	B151
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3613696	MS2038CG	S21, V64, V72, V78, V139
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3617418	KIPR016RP06CF02	V154
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3637552	ABDF0150A2AS K600	P110
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3637638	D60MTTB1000KM40	B387
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3638551	MDJNL3232P15	B86
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3639221	NGP3088R KD1425	C152
3639223	NGP3125R KD1425	C152
3639344	NG3062LEST KB1630	C163
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3639762	SCMT09T308MP KCP25	B231
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3639878	DCMT11T308MP KCU10	B208
3639881	TCMT16T308MP KCP25	B245

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
3639883	TCMT16T308MP KCU10	B245
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3660593	CM217	B168, B370
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Dizin

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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3742293	WD32FDS32321M	H103
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3744541	20A03R028A20ED10	T31
3744542	25A03R032A25ED10	T31
3744613	25A04R032A25ED10	T31
3744614	32A04R040A32ED10	T31
3744615	32A05R040A32ED10	T31
3744616	16A02R025A16ED10-170	T32
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3744619	20A02R032A20ED10-170	T32
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3744621	20A03R032A20ED10-170	T32
3744622	20A03R032A20ED10R31-170	T32
3744623	22A03R032A20ED10-170	T32
3744624	25A03R040A25ED10-200	T32
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3744626	25A04R040A25ED10-200	T32
3744627	25A04R040A25ED10R31-200	T32
3744628	28A04R040A25ED10-200	T32
3744629	32A04R048A32ED10-200	T32
3744630	32A04R048A32ED10R31-200	T32
3744631	32A05R048A32ED10-200	T32
3744632	32A05R048A32ED10R31-200	T32
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3744638	32A04R040B32ED10	T30
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3744873	SCMT09T304MP KCM15	B231
3744874	SCMT09T308MP KCM15	B231
3744878	SPMT09T308MP KCM15	B239
3744880	TCMT16T308MP KCM15	B245
3744884	CCMT060204MP KCP25	B177
3744886	CCMT09T304MP KCP25	B177
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3744891	CCMT120412MP KCP25	B177
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3744896	DCMT11T312MP KCP25	B208
3744897	DPMT11T308MP KCP25	B216
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3745675	40A06RS90ED10D	T33
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3745677	50A08RS90ED10D	T33
3745678	63A06RS90ED10D	T33
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3745703	100B12RS90ED10D	T33
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3745709	20A02R028M10ED10	T29
3745710	20A03R028M10ED10	T29
3745711	25A03R032M12ED10	T29
3745712	25A04R032M12ED10	T29
3745723	32A04R040M16ED10	T29
3745724	32A05R040M16ED10	T29
3745725	40A06R040M16ED10	T29
3745726	42A06R040M16ED10	T29
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3746091	DNMG150412MW KCP05	B80
3746092	DNMG150612MW KCP05	B80
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3746121	TNMG160412RP KCP05	B128
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3746123	WNMG080412RP KCP05	B159
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3746126	CCMT09T302UF KCP05	B178
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3746133	DCMT11T304UF KCP05	B208
3746134	DCMT11T308UF KCP05	B208
3746135	SCMT09T308UF KCP05	B231
3746137	TPMT110202UF KCP05	B256
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3747113	EDPT10T310PDERHD KC522M	T36, T43
3747114	EDPT10T310PDERHD KC725M	T36, T43
3747115	EDPT10T310PDERHD KCK15	T36, T43
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3747141	CNGA120408S01025MT KB5630	B290, B310
3747142	CNGA120412S01025MT KB5630	B290, B310
3747223	CNGA120404S01025FWMT KB5630	B289, B310
3747224	CNGA120408S01025FWMT KB5630	B289, B310
3747225	DNGA150408S01025MT KB5630	B290, B314
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3747228	RNGN090300S02015C KB5630	B317
3747231	CCGW060202S01015C KB5630	B290, B308
3747232	CCGW060204S01015C KB5630	B290, B308
3747233	CCGW09T304S01015MT KB5630	B291, B308
3747234	CCGW09T308S01015MT KB5630	B291, B308
3747237	CPGW09T304S01015MT KB5630	B311
3747238	CPGW09T308S01015MT KB5630	B311
3747239	DCGW070202S01015C KB5630	B291, B312
3747240	DCGW070204S01015C KB5630	B291, B312
3747241	DCGW11T304S01015MT KB5630	B291, B312
3747242	DCGW11T308S01015MT KB5630	B291, B312
3747244	TPGW110208S01015C KB5630	B291, B321
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3748363	DNMG150612CT KCP05	B76
3748366	CNMG120404FF KCP05	B48
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3748368	DNMG110408FF KCP05	B76
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3748390	TNMG160412FW KCP05	B125
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3748423	VBMT110308LF KCP05	B265
3748425	VBMT160408LF KCP05	B265
3749127	HNGJ0905ANSNHD KC520M	S19, S23
3749128	HNGJ090543ANSNHD KC520M	S19, S23
3749198	CNMG120412MW KCP10	B52
3749200	DNMG150608MW KCP10	B80
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3749255	TNMG160412MW KCP10	B127
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3749258	WNMG080408MW KCP10	B158
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3749261	CNMG120416RP KCP10	B53
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3749263	CNMG160612RP KCP10	B53
3749264	CNMG160616RP KCP10	B53
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3749290	TNMG270612RP KCP10	B128
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3749962	KSHR125B08RS45HN09	S21
3750013	KSHR160C10RS45HN09	S21
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3751556	CNMG120412CT KCP25	B48
3751557	DNMG150404CT KCP25	B76
3751558	DNMG150408CT KCP25	B76
3751559	DNMG150608CT KCP25	B76
3751560	DNMG150612CT KCP25	B76
3751561	CCMT060204FW KCP25	B176
3751562	CCMT060208FW KCP25	B176
3751563	CCMT09T304FW KCP25	B176
3751564	CCMT09T308FW KCP25	B176
3751566	CPMT060208FW KCP25	B189
3751567	CPMT09T304FW KCP25	B189
3751568	CPMT09T308FW KCP25	B189
3751569	DCMT11T304FW KCP25	B207
3751570	DCMT11T308FW KCP25	B207
3751571	DPMT070204FW KCP25	B215
3751575	CCMT060208LF KCP25	B177
3751576	CCMT120408LF KCP25	B177
3751577	CPMT060204LF KCP25	B190
3751578	CPMT060208LF KCP25	B190
3751579	CPMT09T304LF KCP25	B190
3751580	CPMT09T308LF KCP25	B190
3751581	DCMT070204LF KCP25	B207
3751582	DCMT11T308LF KCP25	B207
3751583	DCMT11T312LF KCP25	B207
3751585	DCMT150408LF KCP25	B207
3751586	DPMT070204LF KCP25	B215
3751587	DPMT11T304LF KCP25	B215
3751588	DPMT11T308LF KCP25	B215
3751589	SCMT09T304LF KCP25	B230
3751590	SCMT09T308LF KCP25	B230
3751591	SCMT120404LF KCP25	B230
3751592	SCMT120408LF KCP25	B230
3751594	SPMT09T304LF KCP25	B238
3751595	SPMT09T308LF KCP25	B238
3751596	TCMT110204LF KCP25	B244

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
3751597	TCMT110208LF KCP25	B244
3751598	TCMT16T304LF KCP25	B244
3751599	TCMT16T308LF KCP25	B244
3751600	TCMT16T312LF KCP25	B244
3751601	TCMT220408LF KCP25	B244
3751602	TPMT090204LF KCP25	B255
3751603	TPMT110204LF KCP25	B255
3751604	TPMT110208LF KCP25	B255
3751605	TPMT16T304LF KCP25	B255
3751606	TPMT16T308LF KCP25	B255
3751607	VBMT110304LF KCP25	B265
3751608	VBMT110308LF KCP25	B265
3751609	VBMT160404LF KCP25	B265
3751610	VBMT160408LF KCP25	B265
3751611	WPMT06T304LF KCP25	B272
3751615	CCMT09T308MW KCP25	B178
3751616	CCMT120404MW KCP25	B178
3751617	CCMT120408MW KCP25	B178
3751618	CNMG120412MW KCP25	B52
3751620	CPMT09T308MW KCP25	B191
3751622	DCMT11T308MW KCP25	B208
3751633	DNMG150408MW KCP25	B80
3751635	DNMG150608MW KCP25	B80
3751636	DNMG150612MW KCP25	B80
3751637	SNMG120408MW KCP25	B100
3751639	TNMG160408MW KCP25	B127
3751640	TNMG160412MW KCP25	B127
3751641	WNMG060408MW KCP25	B158
3751643	WNMG080408MW KCP25	B158
3751644	CNMG120404RP KCP25	B53
3751645	CNMG120412RP KCP25	B53
3751646	CNMG120416RP KCP25	B53
3751647	CNMG160608RP KCP25	B53
3751648	CNMG160612RP KCP25	B53
3751649	CNMG160616RP KCP25	B53
3751650	CNMG190612RP KCP25	B53
3751652	CNMM250924RP KCP25	B56
3751655	DNMG150408RP KCP25	B81
3751656	DNMG150412RP KCP25	B81
3751657	DNMG150608RP KCP25	B81
3751658	DNMG150612RP KCP25	B81
3751659	DNMG150616RP KCP25	B81
3751661	RCGT1204M0RP KCP25	B223
3751673	RCMT1204M0RP KCP25	B226
3751674	RCMT1606M0RP KCP25	B226
3751675	RCMT2006M0RP KCP25	B226
3751677	RCMX2507M0RP KCP25	B226
3751679	SNMG120408RP KCP25	B101
3751680	SNMG120412RP KCP25	B101
3751681	SNMG150612RP KCP25	B101
3751682	SNMG150616RP KCP25	B101
3751685	SNMM250724RP KCP25	B103
3751686	SNMM250924RP KCP25	B103
3751687	TNMG160408RP KCP25	B128
3751688	TNMG160412RP KCP25	B128
3751689	TNMG220408RP KCP25	B128
3751692	TNMG270612RP KCP25	B128
3751694	TNMG330924RP KCP25	B128
3751695	VNMG160408RP KCP25	B147
3751696	VNMG160412RP KCP25	B147
3751697	WNMG060408RP KCP25	B159
3751698	WNMG060412RP KCP25	B159
3751699	WNMG080408RP KCP25	B159
3751700	WNMG080412RP KCP25	B159
3751701	WNMG080416RP KCP25	B159
3751702	CCMT060204UF KCP25	B178
3751703	CCMT09T304UF KCP25	B178
3751705	CPMT060204UF KCP25	B191
3751706	CPMT09T304UF KCP25	B191
3751707	DCMT070204UF KCP25	B208
3751710	DCMT11T308UF KCP25	B208
3751711	DPMT070204UF KCP25	B216
3751712	TCMT110204UF KCP25	B245
3751714	TCMT16T308UF KCP25	B245
3751715	CNMM120408RM KCP25	B55
3751716	CNMM120412RM KCP25	B55
3751718	CNMM160612RM KCP25	B55
3751719	CNMM160616RM KCP25	B55
3751721	CNMM190612RM KCP25	B55
3751722	CNMM190616RM KCP25	B55
3751733	CNMM190624RM KCP25	B55
3751734	DNMM150408RM KCP25	B82
3751737	DNMM150612RM KCP25	B82
3751738	DNMM150616RM KCP25	B82
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3751747	SNMM190624RM KCP25	B103
3751748	TNMM160408RM KCP25	B129
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3751753	TNMM270612RM KCP25	B129
3751754	TNMM270616RM KCP25	B129
3751755	CNMG120408RN KCP25	B53
3751756	CNMG120416RN KCP25	B53
3751757	CNMG120408RP KCP25	B53
3751759	CNMM120412RP KCP25	B56
3751760	CNMM120416RP KCP25	B56
3751762	CNMM160612RP KCP25	B56
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3751771	SNMM120412RP KCP25	B103
3751772	SNMM150612RP KCP25	B103
3751773	SNMM190612RP KCP25	B103
3751775	SNMM190624RP KCP25	B103
3751777	TNMM220412RP KCP25	B130
3751805	RNMG190600 KCP40	B94
3751808	SNMG190616 KCP40	B96
3751809	SNMG250924 KCP40	B96
3751810	TNMG330924 KCP40	B123
3751811	CNMG120408MN KCP40	B50
3751812	CNMG120412MN KCP40	B50
3751814	DNMG150408MN KCP40	B78
3751816	DNMG150608MN KCP40	B78
3751818	SNMG120408MN KCP40	B98
3751819	SNMG120412MN KCP40	B98
3751823	TNMG160412MN KCP40	B125
3751824	TNMG220408MN KCP40	B125
3751826	WNMG080408MN KCP40	B157
3751828	CNMG120408RP KCP40	B53
3751829	CNMG120412RP KCP40	B53
3751830	CNMG160612RP KCP40	B53
3751833	CNMM120408RP KCP40	B56
3751837	CNMM160612RP KCP40	B56
3751847	SNMG120412RP KCP40	B101
3751848	SNMG150612RP KCP40	B101
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3751854	SNMM190612RP KCP40	B103
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3751858	TNMG220412RP KCP40	B128
3751859	TNMG330924RP KCP40	B128
3751862	CNMG120408RP KCK05	B53
3751873	CNMG120404UN KCK05	B54
3751874	CNMG120408UN KCK05	B54
3751875	CNMG120412UN KCK05	B54
3751882	CNMG190616UN KCK05	B54
3751896	CNMA120408 KCK05	B47
3751898	CNMA120412 KCK05	B47
3751899	CNMA120416 KCK05	B47
3751906	CNMA190612 KCK05	B47
3751908	TNMG160408UN KCK05	B128
3751909	DNMA110408 KCK05	B75
3751910	DNMA150408 KCK05	B75
3751911	TNMG160412UN KCK05	B128
3751912	DNMA150412 KCK05	B75
3751915	DNMA150608 KCK05	B75
3751931	TNMA220408 KCK05	B123
3751934	VNMA160408 KCK05	B144
3751938	WNMA080408 KCK05	B155
3751944	CNMG090308FN KCK05	B49
3751945	CNMG120404FN KCK05	B49
3751946	CNMG120408FN KCK05	B49
3751950	DNMG110404FN KCK05	B77
3751951	WNMG080412UN KCK05	B160
3751952	DNMG110408FN KCK05	B77
3751955	DNMG150404FN KCK05	B77
3751956	DNMG150408FN KCK05	B77
3751957	DNMG150408UN KCK05	B82
3751958	DNMG150412FN KCK05	B77
3751959	DNMG150604FN KCK05	B77
3751960	DNMG150608FN KCK05	B77
3751961	DNMG150612FN KCK05	B77
3751963	SNMG090308FN KCK05	B97
3751964	SNMG120404FN KCK05	B97
3751970	TNMG160404FN KCK05	B124
3751971	TNMG160408FN KCK05	B124
3751972	TNMG160412FN KCK05	B124
3751974	VNMG160404FN KCK05	B145
3751975	VNMG160408FN KCK05	B145
3751976	WNMG060404FN KCK05	B155
3751978	WNMG080404FN KCK05	B155
3751979	WNMG080408FN KCK05	B155
3751980	CCMT060204LF KCK05	B177
3751981	CCMT09T304LF KCK05	B177
3751982	CCMT09T308LF KCK05	B177
3751985	DCMT11T304LF KCK05	B207
3751986	CCMT060208LF KCK15	B177
3751987	CCMT120408LF KCK15	B177
3751988	CPMT060204LF KCK15	B190
3751989	CPMT060208LF KCK15	B190
3751991	CPMT09T308LF KCK15	B190
3751992	DCMT11T308LF KCK15	B207
3752013	SCMT09T308LF KCK15	B230
3752014	SCMT120408LF KCK15	B230
3752015	SPMT09T308LF KCK15	B238
3752016	TCMT110204LF KCK15	B244
3752017	TCMT110208LF KCK15	B244
3752018	TCMT16T304LF KCK15	B244
3752019	TCMT16T308LF KCK15	B244
3752020	TCMT16T312LF KCK15	B244
3752021	TPMT090204LF KCK15	B255
3752024	TPMT16T304LF KCK15	B255
3752025	TPMT16T308LF KCK15	B255
3752026	VBMT160404LF KCK15	B265
3752027	VBMT160408LF KCK15	B265
3752028	CCMT060204MF KCK15	B177
3752029	CCMT09T304MF KCK15	B177
3752030	CCMT09T312MF KCK15	B177
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3752032	CPMT060208MF KCK15	B190
3752033	CPMT09T308MF KCK15	B190
3752035	DCMT11T304MF KCK15	B208
3752036	DCMT11T308MF KCK15	B208
3752037	DCMT11T312MF KCK15	B208
3752039	SCMT09T308MF KCK15	B231
3752040	SCMT120408MF KCK15	B231
3752041	SCMT120412MF KCK15	B231
3752042	SPMT09T308MF KCK15	B239
3752043	SPMT120408MF KCK15	B239
3752044	TCMT110208MF KCK15	B245
3752045	TCMT16T308MF KCK15	B245
3752047	TPMT110208MF KCK15	B255
3752048	TPMT16T308MF KCK15	B255
3752049	TPMT16T312MF KCK15	B255
3752050	CNMG120412RP KCK15	B53
3752052	CNMG160612RP KCK15	B53
3752053	CNMG190612RP KCK15	B53
3752057	DNMG150612RP KCK15	B81
3752058	RCMT1204M0RP KCK15	B226
3752059	RCMT1606M0RP KCK15	B226
3752061	SNMG120412RP KCK15	B101
3752066	TNMG220416RP KCK15	B128
3752067	VNMG160408RP KCK15	B147
3752068	VNMG160412RP KCK15	B147
3752069	WNMG080408RP KCK15	B159
3752070	WNMG080412RP KCK15	B159
3752072	CCMT060208LF KCK05	B177
3752074	CPMT060204LF KCK05	B190
3752075	CPMT060208LF KCK05	B190
3752076	CPMT09T304LF KCK05	B190
3752077	CPMT09T308LF KCK05	B190
3752079	DCMT11T308LF KCK05	B207
3752083	DPMT070204LF KCK05	B215
3752084	DPMT11T304LF KCK05	B215
3752086	SCMT09T304LF KCK05	B230
3752087	SCMT09T308LF KCK05	B230
3752089	SCMT120408LF KCK05	B230
3752093	TCMT110204LF KCK05	B244
3752094	TCMT110208LF KCK05	B244
3752095	TCMT16T304LF KCK05	B244
3752099	TPMT090204LF KCK05	B255
3752102	TPMT16T304LF KCK05	B255
3752103	TPMT16T308LF KCK05	B255
3752106	VBMT110304LF KCK05	B265
3752107	VBMT110308LF KCK05	B265
3752109	VBMT160408LF KCK05	B265
3752110	VBMT160412LF KCK05	B265
3752113	WPMT06T308LF KCK05	B272
3752114	CNMG120412RP KCK05	B53
3752115	CNMG160612RP KCK05	B53
3752117	DNMG150408RP KCK05	B81
3752119	DNMG150612RP KCK05	B81
3752121	SNMG120412RP KCK05	B101
3752122	TNMG160408RP KCK05	B128
3752124	WNMG080408RP KCK05	B159
3752125	WNMG080412RP KCK05	B159
3752127	CNMA120404 KCK15	B47
3752128	CNMA120408 KCK15	B47
3752129	CNMA120412 KCK15	B47
3752130	CNMA120416 KCK15	B47
3752131	CNMA160608 KCK15	B47
3752132	CNMA160612 KCK15	B47
3752143	CNMA160616 KCK15	B47
3752144	CNMA190612 KCK15	B47
3752145	DNMA150408 KCK15	B75
3752146	DNMA150412 KCK15	B75
3752147	DNMA150608 KCK15	B75
3752152	SNMA120412 KCK15	B96
3752157	TNMA160408 KCK15	B123
3752158	TNMA160412 KCK15	B123
3752159	TNMA160416 KCK15	B123
3752163	TNMA270616 KCK15	B123
3752164	VNMA160408 KCK15	B144
3752165	WNMA060408 KCK15	B155
3752167	WNMA080408 KCK15	B155
3752168	WNMA080412 KCK15	B155
3752170	CCMT060204LF KCK15	B177
3752171	CCMT09T304LF KCK15	B177
3752172	CCMT09T308LF KCK15	B177
3752173	DCMT11T304LF KCK15	B207
3752174	CCMT09T308MF KCK15	B177
3752175	CCMT120408MF KCK15	B177
3752176	CNMG120408RP KCK15	B53
3752177	CNMG120404UN KCK15	B54
3752178	CNMG120408UN KCK15	B54
3752179	CNMG120412UN KCK15	B54
3752181	CNMG160608UN KCK15	B54
3752182	CNMG160612UN KCK15	B54
3752183	CNMG160616UN KCK15	B54
3752184	CNMG190608UN KCK15	B54
3752185	CNMG190612UN KCK15	B54
3752186	CNMG190616UN KCK15	B54
3752187	DNMG110408UN KCK15	B82
3752188	DNMG110412UN KCK15	B82
3752189	DNMG150408UN KCK15	B82
3752192	DNMG150608UN KCK15	B82
3752193	DNMG150612UN KCK15	B82
3752196	SNMG120408UN KCK15	B102
3752200	SNMG150616UN KCK15	B102
3752201	SNMG190612UN KCK15	B102
3752203	TNMG160408UN KCK15	B128
3752207	TNMG220412UN KCK15	B128
3752209	VNMG160404UN KCK15	B147
3752210	VNMG160408UN KCK15	B147
3752211	WNMG060408UN KCK15	B160
3752213	WNMG080404UN KCK15	B160
3752214	WNMG080408UN KCK15	B160
3752215	WNMG080412UN KCK15	B160
3753009	B291A05600YPL KC7315	G94
3753162	DNMG110404FF KCP10	B76
3753203	DNMG150408FF KCP10	B76
3753206	WNMG060404FF KCP10	B155
3753207	WNMG060408FF KCP10	B155
3753208	WNMG080408FF KCP10	B155
3753209	CNMG090304FN KCP10	B49
3753210	CNMG090308FN KCP10	B49
3753211	CNMG120404FN KCP10	B49
3753212	CNMG120408FN KCP10	B49

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
3753214	CNMG120416FN KCP10	B49
3753215	DNMG110404FN KCP10	B77
3753216	DNMG110408FN KCP10	B77
3753218	DNMG150404FN KCP10	B77
3753219	DNMG150408FN KCP10	B77
3753221	DNMG150604FN KCP10	B77
3753222	DNMG150608FN KCP10	B77
3753223	DNMG150612FN KCP10	B77
3753225	SNMG090308FN KCP10	B97
3753227	SNMG120408FN KCP10	B97
3753228	SNMG120412FN KCP10	B97
3753229	SNMG120416FN KCP10	B97
3753231	TNMG110308FN KCP10	B124
3753232	TNMG160404FN KCP10	B124
3753233	TNMG160408FN KCP10	B124
3753238	VNMG160404FN KCP10	B145
3753239	VNMG160408FN KCP10	B145
3753240	WNMG060404FN KCP10	B155
3753241	WNMG060408FN KCP10	B155
3753242	WNMG080404FN KCP10	B155
3753243	WNMG080408FN KCP10	B155
3753244	CCMT060204LF KCP10	B177
3753245	CCMT09T304LF KCP10	B177
3753246	CCMT09T308LF KCP10	B177
3753247	CCMT120404LF KCP10	B177
3753248	CCMT120412LF KCP10	B177
3753249	DCMT11T304LF KCP10	B207
3753251	CCMT120408MF KCP10	B177
3753252	CNMG120408MN KCP10	B50
3753253	CNMG120412MN KCP10	B50
3753254	DNMG150408MN KCP10	B78
3753255	DNMG150608MN KCP10	B78
3753256	TNMG160408MN KCP10	B125
3753257	WNMG080408MN KCP10	B157
3753288	CNMG120412RN KCP10	B53
3753292	CNMG160612RN KCP10	B53
3753293	CNMG160616RN KCP10	B53
3753295	CNMG190612RN KCP10	B53
3753298	DNMG150408RN KCP10	B81
3753301	DNMG150608RN KCP10	B81
3753302	DNMG150612RN KCP10	B81
3753303	DNMG150616RN KCP10	B81
3753307	CNMG120408MW KCP10	B52
3753308	RNMG120400RN KCP10	B94
3753311	RNMG250900RN KCP10	B94
3753312	SNMG090412RN KCP10	B101
3753313	SNMG120408RN KCP10	B101
3753314	WNMG080412MW KCP10	B158
3753315	SNMG120412RN KCP10	B101
3753319	CNMM190624RH KCP10	B55
3753321	SNMG150608RN KCP10	B101
3753322	SNMM190616RH KCP10	B102
3753323	SNMM190624RH KCP10	B102
3753325	CNMM120408RM KCP10	B55
3753326	CNMM120412RM KCP10	B55
3753328	CNMM160612RM KCP10	B55
3753329	CNMM160616RM KCP10	B55
3753331	CNMM160624RM KCP10	B55
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3753333	CNMM190616RM KCP10	B55
3753334	SNMG190616RN KCP10	B101
3753335	DNMM150608RM KCP10	B82
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3753337	TNMG160408RN KCP10	B127
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3753341	SNMM150616RM KCP10	B103
3753342	SNMM190612RM KCP10	B103
3753343	SNMM190616RM KCP10	B103
3753347	TNMG220412RN KCP10	B127
3753348	CNMG120408RN KCP10	B53
3753349	CNMG120416RN KCP10	B53
3753351	CNMG120408RP KCP10	B53
3753352	CNMM120408RP KCP10	B56
3753354	TNMG270608RN KCP10	B127
3753356	CNMM160612RP KCP10	B56
3753357	TNMG270612RN KCP10	B127
3753358	CNMM160616RP KCP10	B56
3753360	CNMM190616RP KCP10	B56
3753361	TNMG270616RN KCP10	B127
3753364	DNMM150608RP KCP10	B83
3753367	VNMG160408RN KCP10	B147
3753368	SNMM150616RP KCP10	B103
3753371	VNMG160412RN KCP10	B147
3753372	TNMM220408RP KCP10	B130
3753374	VNMG220408RN KCP10	B147
3753375	TNMM220416RP KCP10	B130
3753376	VNMG220412RN KCP10	B147
3753379	WNMG080408RN KCP10	B159
3753380	WNMG080412RN KCP10	B159
3753381	WNMG080416RN KCP10	B159
3753386	EDPT10T308PDSRGD KC520M	T36, T44
3753387	EDPT10T312PDSRGD KC520M	T36, T44
3753389	CCMT060204MF KCP25	B177
3753390	CCMT09T304MF KCP25	B177
3753391	CCMT09T312MF KCP25	B177
3753413	CCMT120412MF KCP25	B177
3753415	CPMT09T308MF KCP25	B190
3753416	CPMT09T312MF KCP25	B190
3753417	EDCT10T308PDERLD KC510M	T35, T43
3753418	DCMT11T304MF KCP25	B208
3753419	DCMT11T308MF KCP25	B208
3753421	DPMT11T308MF KCP25	B215
3753422	SCMT09T308MF KCP25	B231
3753423	SCMT120408MF KCP25	B231
3753424	SCMT120412MF KCP25	B231
3753425	SPMT09T308MF KCP25	B239
3753426	SPMT120408MF KCP25	B239
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3753428	TCMT16T308MF KCP25	B245
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3753432	TPMT16T312MF KCP25	B255
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3753465	TNMG220404MN KCP25	B125
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3753473	WNMG060408MN KCP25	B157
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3753476	WNMG080416MN KCP25	B157
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3753481	DNMP150404K KCP25	B83
3753482	DNMP150408K KCP25	B83
3753483	DNMP150412K KCP25	B83
3753484	SNMP120408K KCP25	B104
3753487	TNMP160408K KCP25	B130
3753489	TNMP220408K KCP25	B130
3753491	VNMP160404K KCP25	B148
3753494	VNMP160408K KCP25	B148
3753502	SNMG250924RM KCP25	B100
3753504	CNMG120412RN KCP25	B53
3753505	CNMG160608RN KCP25	B53
3753506	CNMG160612RN KCP25	B53
3753507	CNMG160616RN KCP25	B53
3753508	CNMG190608RN KCP25	B53
3753509	CNMG190612RN KCP25	B53
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3753511	CNMG190624RN KCP25	B53
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3753513	DNMG150412RN KCP25	B81
3753514	DNMG150416RN KCP25	B81
3753515	DNMG150608RN KCP25	B81
3753516	DNMG150612RN KCP25	B81
3753517	DNMG150616RN KCP25	B81
3753518	DNMG190608RN KCP25	B81
3753519	DNMG190612RN KCP25	B81
3753520	RNMG090300RN KCP25	B94
3753523	RNMG190600RN KCP25	B94
3753525	RNMG250900RN KCP25	B94
3753526	SNMG120408RN KCP25	B101
3753527	SNMG120412RN KCP25	B101
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3753544	SNMG190616RN KCP25	B101
3753545	SNMG190624RN KCP25	B101
3753546	TNMG160408RN KCP25	B127
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3753549	TNMG220412RN KCP25	B127
3753550	TNMG220416RN KCP25	B127
3753551	TNMG270608RN KCP25	B127
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3753553	TNMG270616RN KCP25	B127
3753554	TNMG330924RN KCP25	B127
3753555	VNMG160408RN KCP25	B147
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3753558	VNMG220412RN KCP25	B147
3753559	WNMG060408RN KCP25	B159
3753560	WNMG060412RN KCP25	B159
3753561	WNMG080408RN KCP25	B159
3753562	WNMG080412RN KCP25	B159
3753563	WNMG080416RN KCP25	B159
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3753593	EDPT10T308PDERHD KC520M	T36, T43
3753594	EDPT10T312PDERHD KC520M	T36, T43
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3753609	CNMG160608RN KCP30	B53
3753610	CNMG160612RN KCP30	B53
3753611	CNMG190612RN KCP30	B53
3753612	CNMG190616RN KCP30	B53
3753633	CNMG190624RN KCP30	B53
3753636	DNMG150608RN KCP30	B81
3753637	DNMG150612RN KCP30	B81
3753639	DNMG190608RN KCP30	B81
3753640	DNMG190612RN KCP30	B81
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3753642	RNMG150600RN KCP30	B94
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3753658	TNMG270608RN KCP30	B127
3753662	VNMG220408RN KCP30	B147
3753663	VNMG220412RN KCP30	B147
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3753707	DNMG150604FN KCP25	B77
3753708	DNMG150608FN KCP25	B77
3753709	DNMG150612FN KCP25	B77
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3753730	CCMT120404LF KCP25	B177
3753732	DCMT11T304LF KCP25	B207
3753733	CCMT09T308MF KCP25	B177
3753734	CCMT120408MF KCP25	B177
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3753737	RCMT10T3M0 KCP30	B224
3753739	CCMT060208LF KCP30	B177
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3753743	CPMT09T304LF KCP30	B190
3753744	CPMT09T308LF KCP30	B190
3753745	DCMT070204LF KCP30	B207
3753750	SCMT09T304LF KCP30	B230
3753751	SCMT09T308LF KCP30	B230
3753752	SCMT120404LF KCP30	B230
3753753	SCMT120408LF KCP30	B230
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3753755	TCMT110208LF KCP30	B244
3753757	TCMT16T308LF KCP30	B244
3753760	VBMT160404LF KCP30	B265
3753761	VBMT160408LF KCP30	B265
3753762	CCMT060204MF KCP30	B177
3753763	CCMT09T304MF KCP30	B177
3753765	DCMT11T304MF KCP30	B208
3753766	DCMT11T308MF KCP30	B208
3753767	SCMT120408MF KCP30	B231
3753768	SPMT120408MF KCP30	B239
3753769	TCMT16T308MF KCP30	B245
3753770	TPMT16T308MF KCP30	B255
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3753781	DNMG150404MN KCP30	B78
3753782	DNMG150604MN KCP30	B78
3753783	DNMG190612MN KCP30	B78
3753784	SNMG090308MN KCP30	B98
3753786	SNMG120408MN KCP30	B98
3753787	SNMG120412MN KCP30	B98
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3753795	VNMG160408MN KCP30	B145
3753796	VNMG160412MN KCP30	B145
3753797	WNMG060408MN KCP30	B157
3753798	CNMG120412RP KCP30	B53
3753799	CNMG160612RP KCP30	B53
3753801	CNMG190612RP KCP30	B53
3753802	CNMG190616RP KCP30	B53
3753804	DNMG150412RP KCP30	B81
3753805	DNMG150608RP KCP30	B81
3753810	RCMX2507M0RP KCP30	B226
3753812	SNMG120412RP KCP30	B101
3753816	TNMG160408RP KCP30	B128
3753819	TNMG220432RP KCP30	B128
3753821	CNMG120408MN KCP25	B50
3753822	WNMG080412RP KCP30	B159
3753823	CNMG120412MN KCP25	B50
3753825	DNMG150408MN KCP25	B78
3753827	DNMG150608MN KCP25	B78

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
3753828	TNMG160408MN KCP25	B125
3753829	WNMG080408MN KCP25	B157
3753830	CNMG120408MW KCP25	B52
3753831	WNMG080412MW KCP25	B158
3753832	CNMM190612RH KCP25	B55
3753834	CNMM190624RH KCP25	B55
3753836	SNMM190616RH KCP25	B102
3753837	SNMM190624RH KCP25	B102
3753867	CCMT09T308MW KCK20	B178
3753871	CPMT09T308MW KCK20	B191
3753875	CNMG120412RP KCK20	B53
3753877	CNMG160608RP KCK20	B53
3753878	CNMG160612RP KCK20	B53
3753879	CNMG160616RP KCK20	B53
3753884	DNMG150408RP KCK20	B81
3753887	DNMG150608RP KCK20	B81
3753888	DNMG150612RP KCK20	B81
3753891	SNMG120408RP KCK20	B101
3753892	SNMG120412RP KCK20	B101
3753897	SNMG190616RP KCK20	B101
3753898	TNMG160408RP KCK20	B128
3753899	TNMG160412RP KCK20	B128
3753904	TNMG220432RP KCK20	B128
3753909	VNMG160412RP KCK20	B147
3753912	WNMG080408RP KCK20	B159
3753923	WNMG080412RP KCK20	B159
3753926	CCMT060208FW KCK20	B176
3753929	CCMT09T308FW KCK20	B176
3753931	CPMT060204FW KCK20	B189
3753932	CPMT060208FW KCK20	B189
3753934	CPMT09T308FW KCK20	B189
3753935	DCMT11T304FW KCK20	B207
3753981	CNMG120408RN KCP40	B53
3753982	CNMG120412RN KCP40	B53
3753993	CNMG120416RN KCP40	B53
3753994	CNMG160612RN KCP40	B53
3753996	CNMG190608RN KCP40	B53
3753997	CNMG190612RN KCP40	B53
3753998	CNMG190616RN KCP40	B53
3753999	DNMG150408RN KCP40	B81
3754004	SNMG120412RN KCP40	B101
3754005	SNMG120416RN KCP40	B101
3754006	SNMG150612RN KCP40	B101
3754008	SNMG190612RN KCP40	B101
3754010	TNMG220408RN KCP40	B127
3754012	TNMG270612RN KCP40	B127
3754014	VNMG220408RN KCP40	B147
3754015	WNMG080408RN KCP40	B159
3754059	RCMT1204M0 KCP30	B224
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3754061	CCMT09T304LF KCP30	B177
3754062	CCMT09T308LF KCP30	B177
3754343	CCMT120404LF KCP30	B177
3754344	DCMT11T304LF KCP30	B207
3754345	CCMT09T308MF KCP30	B177
3754346	CCMT120408MF KCP30	B177
3754347	CNMG120408MN KCP30	B50
3754349	DNMG150408MN KCP30	B78
3754351	TNMG160408MN KCP30	B125
3754352	WNMG080408MN KCP30	B157
3754363	CNMG120408RN KCP30	B53
3754365	CNMG120408RP KCP30	B53
3754367	CNMM120412RP KCP30	B56
3754374	CNMM190616RH KCP30	B55
3754375	CNMM190624RH KCP30	B55
3754376	SNMM190612RH KCP30	B102
3754377	SNMM190616RH KCP30	B102
3754378	SNMM190624RH KCP30	B102
3754379	CNMM120408RM KCP30	B55
3754383	CNMM160616RM KCP30	B55
3754385	CNMM190616RM KCP30	B55
3754386	CNMM190624RM KCP30	B55
3754388	DNMM150608RM KCP30	B82
3754396	TNMM160408RM KCP30	B129
3754398	TNMM220412RM KCP30	B129
3754399	TNMM270612RM KCP30	B129
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3754818	CNMM250924RH KCP40	B55
3754819	SNMM190616RH KCP40	B102
3754821	SNMM250724RH KCP40	B102
3754822	SNMM250924RH KCP40	B102
3754856	CNMM190612RM KCP40	B55
3754858	CNMM250924RM KCP40	B55
3754861	DNMM150612RM KCP40	B82
3754863	SNMM190612RM KCP40	B103
3754864	SNMM250924RM KCP40	B103
3755331	WNMG080404FF KCP10	B155
3755332	CNMM250924RH KCP10	B55
3755363	LNUX191940RRH KCP10	E51
3755366	RCMT2006M0RH KCP10	B225
3755367	RCMX2507M0RH KCP10	B225
3755369	SNMM250724RH KCP10	B102
3755370	SNMM250924RH KCP10	B102
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3755372	SNMM250724RM KCP10	B103
3755475	RCMT1605M0 KCK20	B224
3755479	RCMT120400 KCK20	B224
3755481	CCMT120408LF KCK20	B177
3755482	CPMT060204LF KCK20	B190
3755484	CPMT09T304LF KCK20	B190
3755485	CPMT09T308LF KCK20	B190
3755486	DCMT070204LF KCK20	B207
3755487	DCMT11T308LF KCK20	B207
3755490	DCMT150408LF KCK20	B207
3755491	DPMT070204LF KCK20	B215
3755492	DPMT11T304LF KCK20	B215
3755503	DPMT11T308LF KCK20	B215
3755504	SCMT09T304LF KCK20	B230
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3755510	SPMT09T308LF KCK20	B238
3755511	TCMT110204LF KCK20	B244
3755512	TCMT110208LF KCK20	B244
3755513	TCMT16T304LF KCK20	B244
3755514	TCMT16T308LF KCK20	B244
3755515	TCMT16T312LF KCK20	B244
3755517	TPMT110204LF KCK20	B255
3755520	TPMT16T308LF KCK20	B255
3755522	TPMT220408LF KCK20	B255
3755526	VBMT160408LF KCK20	B265
3755527	VBMT160412LF KCK20	B265
3755528	WPMT040204LF KCK20	B272
3755531	CCMT060204MF KCK20	B177
3755532	CCMT09T304MF KCK20	B177
3755533	CCMT09T312MF KCK20	B177
3755534	CCMT120412MF KCK20	B177
3755535	CPMT060208MF KCK20	B190
3755536	CPMT09T308MF KCK20	B190
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3755539	DCMT11T308MF KCK20	B208
3755540	DCMT11T312MF KCK20	B208
3755542	SCMT09T308MF KCK20	B231
3755543	SCMT120408MF KCK20	B231
3755544	SCMT120412MF KCK20	B231
3755545	SPMT09T308MF KCK20	B239
3755546	SPMT120408MF KCK20	B239
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3755552	TPMT16T312MF KCK20	B255
3755565	CCMT060204LF KCM15	B177
3755570	DCMT11T304LF KCM15	B207
3755593	CNMG120408RP KCM15	B53
3755632	CNMM250924RH KCP25	B55
3755635	CPMT060204LF KCM15	B190
3755637	CPMT09T304LF KCM15	B190
3755638	CPMT09T308LF KCM15	B190
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3755648	SCMT120408LF KCM15	B230
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3755651	TCMT16T304LF KCM15	B244
3755655	TPMT110204LF KCM15	B255
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3755659	VBMT110304LF KCM15	B265
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3755662	VBMT160408LF KCM15	B265
3755664	WPMT06T308LF KCM15	B272
3755670	CPMT09T308MF KCM15	B190
3755672	DCMT11T304MF KCM15	B208
3755673	DCMT11T308MF KCM15	B208
3755677	SCMT120408MF KCM15	B231
3755682	TPMT16T308MF KCM15	B255
3755684	CNMG120404MP KCM15	B51
3755685	CNMG120408MP KCM15	B51
3755686	CNMG120412MP KCM15	B51
3755689	CNMG160612MP KCM15	B51
3755691	CNMG190612MP KCM15	B51
3755693	DNMG110408MP KCM15	B79
3755694	DNMG110412MP KCM15	B79
3755699	DNMG150608MP KCM15	B79
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3755701	SNMG120408MP KCM15	B98
3755702	SNMG120412MP KCM15	B98
3755704	SNMG150612MP KCM15	B98
3755705	SNMG190612MP KCM15	B98
3755706	TNMG160404MP KCM15	B125
3755707	TNMG160408MP KCM15	B125
3755711	VNMG160404MP KCM15	B146
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3755716	WNMG080408MP KCM15	B157
3755717	WNMG080412MP KCM15	B157
3755753	LNUX191940RRH KCP25	E51
3755754	LNUX301940RRH KCP25	E51
3755755	RCMT2006M0RH KCP25	B225
3755756	RCMX2507M0RH KCP25	B225
3755757	RCMX3209M0RH KCP25	B225
3755758	SNMM250724RH KCP25	B102
3755760	SNMM250924RH KCP25	B102
3755761	CNMM250924RM KCP25	B55
3755762	RCMT2006M0RM KCP25	B225
3755763	SNMM250724RM KCP25	B103
3755764	SNMM250924RM KCP25	B103
3755835	B292A08200YPL KC7315	G95
3757585	WNMA060412 KCK20	B155
3757586	CNMG120404UN KCK20	B54
3757587	CNMG120408UN KCK20	B54
3757588	CNMG120412UN KCK20	B54
3757589	CNMG120416UN KCK20	B54
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3757595	CNMG190616UN KCK20	B54
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3757597	DNMG110412UN KCK20	B82
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3757600	DNMG150416UN KCK20	B82
3757601	DNMG150608UN KCK20	B82
3757602	DNMG150612UN KCK20	B82
3757603	DNMG150616UN KCK20	B82
3757604	RNMG120400UN KCK20	B94
3757605	SNMG120408UN KCK20	B102
3757606	SNMG120412UN KCK20	B102
3757607	SNMG120416UN KCK20	B102
3757608	SNMG150612UN KCK20	B102
3757609	SNMG150616UN KCK20	B102
3757610	SNMG190612UN KCK20	B102
3757611	SNMG190616UN KCK20	B102
3757612	TNMG160408UN KCK20	B128
3757613	TNMG160412UN KCK20	B128
3757614	TNMG160416UN KCK20	B128
3757615	TNMG220408UN KCK20	B128
3757616	TNMG220412UN KCK20	B128
3757617	TNMG220416UN KCK20	B128
3757618	VNMG160404UN KCK20	B147
3757619	VNMG160408UN KCK20	B147
3757622	WNMG080404UN KCK20	B160
3757623	WNMG080408UN KCK20	B160
3757624	WNMG080412UN KCK20	B160
3757625	WNMG080416UN KCK20	B160
3757726	B966A13400 KC7315	G134
3757916	CCMW09T308 KCK20	B178
3757917	CCMW120408 KCK20	B178
3757918	CCMW120412 KCK20	B178
3757919	SCMW09T304 KCK20	B232
3757920	SCMW09T308 KCK20	B232
3757921	SCMW120408 KCK20	B232
3757922	SCMW120412 KCK20	B232
3757960	DNMG150608RN KCP05	B81
3757961	DNMG150612RN KCP05	B81
3758013	WNMG080412RN KCP05	B159
3758033	DNMG110408RP KCM15	B81
3758035	DNMG150408RP KCM15	B81
3758036	DNMG150608RP KCM15	B81
3758043	TNMG160408RP KCM15	B128
3758046	TNMG270612RP KCM15	B128
3758048	VNMG160408RP KCM15	B147
3758050	WNMG060408RP KCM15	B159
3758051	WNMG080408RP KCM15	B159
3758053	WNMG080412RP KCM15	B159
3758055	CNMG120408UP KCM15	B54
3758056	CNMG120412UP KCM15	B54
3758064	DNMG150404UP KCM15	B82
3758065	DNMG150408UP KCM15	B82
3758068	DNMG150608UP KCM15	B82
3758073	SNMG150612UP KCM15	B102
3758076	TNMG160408UP KCM15	B129
3758080	VNMG160404UP KCM15	B147
3758081	VNMG160408UP KCM15	B147
3758082	VNMG160412UP KCM15	B147
3758084	WNMG080408UP KCM15	B160
3758086	RCMT1204M0 KCM25	B224
3758087	CCMT060204LF KCM25	B177
3758088	CCMT09T304LF KCM25	B177
3758089	CCMT09T308LF KCM25	B177
3758091	CCMT120412LF KCM25	B177
3758092	DCMT11T304LF KCM25	B207
3758093	CCMT09T308MF KCM25	B177
3758094	CCMT120408MF KCM25	B177
3758095	CNMG120408RP KCM25	B53
3758096	CNMM120408RP KCM25	B56
3758099	CNMM160616RP KCM25	B56
3758106	SNMM120412RP KCM25	B103
3758108	SNMM150616RP KCM25	B103
3758110	SNMM190616RP KCM25	B103
3758111	SNMM190624RP KCM25	B103
3758133	CNMA120404 KCK20	B47
3758134	CNMA120408 KCK20	B47
3758135	CNMA120412 KCK20	B47
3758136	CNMA120416 KCK20	B47
3758137	CNMA160608 KCK20	B47
3758138	CNMA160612 KCK20	B47
3758141	CNMA190612 KCK20	B47
3758142	CNMA190616 KCK20	B47
3758143	DNMA150408 KCK20	B75
3758144	DNMA150412 KCK20	B75
3758145	DNMA150608 KCK20	B75
3758146	DNMA150612 KCK20	B75
3758149	SNMA120408 KCK20	B96
3758150	SNMA120412 KCK20	B96
3758152	SNMA150612 KCK20	B96
3758154	SNMA190612 KCK20	B96
3758155	SNMA190616 KCK20	B96
3758156	TNMA160408 KCK20	B123
3758157	TNMA160412 KCK20	B123
3758158	TNMA160416 KCK20	B123
3758162	VNMA160408 KCK20	B144
3758163	WNMA080408 KCK20	B155
3758164	WNMA080412 KCK20	B155
3758165	WNMA080416 KCK20	B155
3758166	RCMT1204M0 KCK20	B224
3758167	CCMT060204LF KCK20	B177
3758168	CCMT09T304LF KCK20	B177
3758169	CCMT09T308LF KCK20	B177
3758170	CCMT120404LF KCK20	B177
3758172	DCMT11T304LF KCK20	B207
3758173	CCMT09T308MF KCK20	B177
3758174	CCMT120408MF KCK20	B177
3758175	CNMG120408RP KCK20	B53
3758783	CNMG120404FP KCM15	B49
3758784	CNMG120408FP KCM15	B49
3758785	CNMG120412FP KCM15	B49
3758786	DNMG110404FP KCM15	B77
3758787	DNMG110408FP KCM15	B77
3758788	DNMG150404FP KCM15	B77
3758789	DNMG150408FP KCM15	B77
3758791	DNMG150604FP KCM15	B77
3758792	DNMG150608FP KCM15	B77
3758794	SNMG120404FP KCM15	B97

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
3758795	SNMG120408FP KCM15	B97
3758797	TNMG160404FP KCM15	B124
3758798	TNMG160408FP KCM15	B124
3758799	TNMG160412FP KCM15	B124
3758800	TNMG220404FP KCM15	B124
3758801	TNMG220408FP KCM15	B124
3758802	VNMG160404FP KCM15	B145
3758803	VNMG160408FP KCM15	B145
3758804	WNMG060404FP KCM15	B156
3758805	WNMG060408FP KCM15	B156
3758806	WNMG080404FP KCM15	B156
3758807	WNMG080408FP KCM15	B156
3758808	WNMG080412FP KCM15	B156
3758827	CNMM250924RH KCP30	B55
3758828	SNMM250724RH KCP30	B102
3758830	SNMM250924RH KCP30	B102
3758873	SNMM250924RM KCP30	B103
3759083	EDCT10T304PDFR-PCD KD1410	T34
3759084	EDCT10T308PDFR-PCD KD1410	T34
3759595	B291A03100YPL KC7315	G94
3759627	B292A03100YPL KC7315	G94
3759628	B291A03175YPL KC7315	G94
3759629	B291A03200YPL KC7315	G94
3759630	B292A03200YPL KC7315	G94
3759654	B291A03300YPL KC7315	G94
3759655	B292A03300YPL KC7315	G94
3759656	B291A03400YPL KC7315	G94
3759657	B292A03400YPL KC7315	G94
3759661	B291A03500YPL KC7315	G94
3759662	B291A03600YPL KC7315	G94
3759713	B292A03600YPL KC7315	G94
3759714	B291A03700YPL KC7315	G94
3759715	B292A03700YPL KC7315	G94
3759716	B291A03800YPL KC7315	G94
3759717	B292A03800YPL KC7315	G94
3759718	B291A03900YPL KC7315	G94
3759722	B292A03900YPL KC7315	G94
3759763	B291A04100YPL KC7315	G94
3759764	B292A04100YPL KC7315	G94
3760221	CCMT060204LF KCM35	B177
3760254	CCMT09T304LF KCM35	B177
3760257	CCMT09T308LF KCM35	B177
3760261	CCMT09T308MF KCM35	B177
3760262	CCMT120408MF KCM35	B177
3760273	CNMG120408RP KCM35	B53
3760277	SNMM120408RP KCM35	B103
3760279	RCMT0602M0 KCM25	B224
3760280	RCMT0803M0 KCM25	B224
3760281	RCMT10T3M0 KCM25	B224
3760282	RCMT1605M0 KCM25	B224
3760286	RCMT120400 KCM25	B224
3760287	CCMT060208LF KCM25	B177
3760290	CPMT060204LF KCM25	B190
3760291	CPMT060208LF KCM25	B190
3760292	CPMT09T304LF KCM25	B190
3760293	CPMT09T308LF KCM25	B190
3760294	DCMT070204LF KCM25	B207
3760295	DCMT11T308LF KCM25	B207
3760296	DPMT070204LF KCM25	B215
3760298	DPMT11T308LF KCM25	B215
3760299	SCMT09T304LF KCM25	B230
3760300	SCMT09T308LF KCM25	B230
3760302	SCMT120408LF KCM25	B230
3760305	TCMT16T304LF KCM25	B244
3760306	TCMT16T308LF KCM25	B244
3760307	TCMT16T312LF KCM25	B244
3760310	TPMT110208LF KCM25	B255
3760312	TPMT16T308LF KCM25	B255
3760314	VBMT110308LF KCM25	B265
3760315	VBMT160404LF KCM25	B265
3760316	VBMT160408LF KCM25	B265
3760319	CCMT060204MF KCM25	B177
3760320	CCMT09T304MF KCM25	B177
3760324	CPMT09T308MF KCM25	B190
3760326	DCMT11T304MF KCM25	B208
3760327	DCMT11T308MF KCM25	B208
3760329	DPMT11T308MF KCM25	B215
3760330	SCMT09T308MF KCM25	B231
3760331	SCMT120408MF KCM25	B231
3760334	SPMT120408MF KCM25	B239
3760336	TCMT16T308MF KCM25	B245
3760338	TPMT110208MF KCM25	B255
3760341	CNMG090308MP KCM25	B51
3760342	CNMG120404MP KCM25	B51
3760343	CNMG120408MP KCM25	B51
3760344	CNMG120412MP KCM25	B51
3760346	CNMG160608MP KCM25	B51
3760347	CNMG160612MP KCM25	B51
3760349	CNMG190608MP KCM25	B51
3760350	CNMG190612MP KCM25	B51
3760351	CNMG190616MP KCM25	B51
3760352	DNMG110408MP KCM25	B79
3760354	DNMG150404MP KCM25	B79
3760355	DNMG150408MP KCM25	B79
3760356	DNMG150412MP KCM25	B79
3760357	DNMG150604MP KCM25	B79
3760358	DNMG150608MP KCM25	B79
3760360	SNMG120408MP KCM25	B98
3760361	SNMG120412MP KCM25	B98
3760364	SNMG150612MP KCM25	B98
3760365	SNMG150616MP KCM25	B98
3760366	SNMG190612MP KCM25	B98
3760368	RCMT2006M0 KCM25	B224
3760394	CCMT120408LF KCM35	B177
3760395	DCMT070204LF KCM35	B207
3760398	TCMT110204LF KCM35	B244
3760399	TCMT16T304LF KCM35	B244
3760400	TCMT16T308LF KCM35	B244
3760402	VBMT160404LF KCM35	B265
3760403	VBMT160408LF KCM35	B265
3760404	CCMT060204MF KCM35	B177
3760406	CPMT09T308MF KCM35	B190
3760407	DCMT11T308MF KCM35	B208
3760410	SCMT120408MF KCM35	B231
3760411	TCMT16T308MF KCM35	B245
3760413	CNMG120404MP KCM35	B51
3760414	CNMG120408MP KCM35	B51
3760415	CNMG120412MP KCM35	B51
3760416	CNMG160608MP KCM35	B51
3760420	DNMG150404MP KCM35	B79
3760421	DNMG150408MP KCM35	B79
3760422	DNMG150604MP KCM35	B79
3760423	DNMG150608MP KCM35	B79
3760425	SNMG120412MP KCM35	B98
3760426	SNMG120416MP KCM35	B98
3760427	SNMG190612MP KCM35	B98
3760430	TNMG160408MP KCM35	B125
3760431	VNMG160404MP KCM35	B146
3760432	VNMG160408MP KCM35	B146
3760434	WNMG080408MP KCM35	B157
3760435	WNMG080412MP KCM35	B157
3760436	CNMG120412RP KCM35	B53
3760437	CNMG120416RP KCM35	B53
3760438	CNMG160612RP KCM35	B53
3760439	CNMG190612RP KCM35	B53
3760440	CNMG190616RP KCM35	B53
3760441	DNMG150408RP KCM35	B81
3760442	DNMG150412RP KCM35	B81
3760445	SNMG120408RP KCM35	B101
3760447	SNMG150612RP KCM35	B101
3760448	SNMG190612RP KCM35	B101
3760450	TNMG160412RP KCM35	B128
3760451	TNMG270612RP KCM35	B128
3760453	WNMG080408RP KCM35	B159
3760454	WNMG080412RP KCM35	B159
3760455	CNMG120408UP KCM35	B54
3760457	CNMG160608UP KCM35	B54
3760458	CNMG160612UP KCM35	B54
3760459	CNMG190612UP KCM35	B54
3760461	DNMG150408UP KCM35	B82
3760465	SNMG120408UP KCM35	B102
3760466	SNMG120412UP KCM35	B102
3760470	TNMG220408UP KCM35	B129
3760473	WNMG080412UP KCM35	B160
3760968	TNMG160404MP KCM25	B125
3760969	TNMG160408MP KCM25	B125
3760970	TNMG160412MP KCM25	B125
3760971	TNMG220408MP KCM25	B125
3760972	TNMG220412MP KCM25	B125
3760994	VNMG160404MP KCM25	B146
3760995	VNMG160408MP KCM25	B146
3760998	WNMG060408MP KCM25	B157
3760999	WNMG060412MP KCM25	B157
3761000	WNMG080408MP KCM25	B157
3761001	WNMG080412MP KCM25	B157
3761002	CNMG120404RP KCM25	B53
3761003	CNMG120412RP KCM25	B53
3761004	CNMG120416RP KCM25	B53
3761005	CNMG160612RP KCM25	B53
3761006	CNMG160616RP KCM25	B53
3761007	CNMG190612RP KCM25	B53
3761008	CNMG190616RP KCM25	B53
3761009	DNMG150408RP KCM25	B81
3761011	DNMG150608RP KCM25	B81
3761012	DNMG150612RP KCM25	B81
3761014	SNMG120408RP KCM25	B101
3761015	SNMG120412RP KCM25	B101
3761019	SNMG190616RP KCM25	B101
3761020	SNMM250724RP KCM25	B103
3761021	SNMM250924RP KCM25	B103
3761022	TNMG160408RP KCM25	B128
3761023	TNMG160412RP KCM25	B128
3761025	TNMG220408RP KCM25	B128
3761026	TNMG220412RP KCM25	B128
3761027	TNMG220416RP KCM25	B128
3761029	TNMG270616RP KCM25	B128
3761030	TNMG330924RP KCM25	B128
3761031	VNMG160412RP KCM25	B147
3761032	WNMG060408RP KCM25	B159
3761033	WNMG080408RP KCM25	B159
3761034	WNMG080412RP KCM25	B159
3761035	CNMG120404UP KCM25	B54
3761036	CNMG120408UP KCM25	B54
3761037	CNMG120412UP KCM25	B54
3761038	CNMG160608UP KCM25	B54
3761039	CNMG160612UP KCM25	B54
3761041	CNMG190612UP KCM25	B54
3761042	CNMG190616UP KCM25	B54
3761043	DNMG110408UP KCM25	B82
3761045	DNMG150404UP KCM25	B82
3761046	DNMG150408UP KCM25	B82
3761048	DNMG150604UP KCM25	B82
3761052	SNMG120412UP KCM25	B102
3761054	SNMG150612UP KCM25	B102
3761056	TNMG160404UP KCM25	B129
3761057	TNMG160408UP KCM25	B129
3761059	TNMG220408UP KCM25	B129
3761061	VNMG160404UP KCM25	B147
3761062	VNMG160408UP KCM25	B147
3761065	WNMG080408UP KCM25	B160
3761066	WNMG080412UP KCM25	B160
3763185	HNPJ0905ANSNHD KCK15	S19, S24
3763632	HNPJ0905ANSNHD KC520M	S19, S24
3763723	HNPJ0905ANSNHD KC725M	S19, S24
3763724	HNPJ0905ANSNHD KCPK30	S19, S24
3763725	HNPJ0905ANSNGD KCK15	S19, S23
3763726	HNPJ0905ANSNGD KC520M	S19, S23
3763727	HNPJ0905ANSNGD KC725M	S19, S23
3763728	HNPJ0905ANSNGD KCPK30	S19, S23
3763729	HNPJ090543ANSNHD KCK15	S19, S24
3763730	HNPJ090543ANSNHD KC725M	S19, S24
3763731	HNPJ090543ANSNHD KCPK30	S19, S24
3764792	CNMA120408S02020 KB1340	B289
3764823	B292A06600YPL KC7315	G95
3764824	B292A10100YPL KC7315	G95
3764833	CNMA120412S02020 KB1340	B289
3764836	CNMN120408S02020 KB1340	B284
3764837	CNMN120412S02020 KB1340	B284
3764838	DNMA110408S02020 KB1340	B289
3764839	DNMA110412S02020 KB1340	B289
3764840	RNMN090300S02020 KB1340	B285
3764841	RNMN120300S02020 KB1340	B285
3764842	RNMN120400S02020 KB1340	B285
3764844	SNMA120412S02020 KB1340	B289
3764845	SNMN090308S02020 KB1340	B286
3764847	SNMN090316S02020 KB1340	B286
3764850	SNMN120316S02020 KB1340	B286
3764851	SNMN120416T02020 KB1340	B286
3765830	EDCT10T320PDFRLDJ KC410M	T35, T42
3765831	EDCT10T320PDERLDJ KC422M	T35, T43
3766023	EDCT10T320PDERLD KC725M	T35, T43
3766024	EDCT10T320PDERLD KCPK30	T35, T43
3766027	EDCT10T324PDERLDJ KC422M	T35, T43
3766028	EDCT10T324PDERLD KC522M	T35, T43
3766029	EDCT10T324PDERLD KC725M	T35, T43
3766820	RIQ09E1306 KC6305	K55
3767813	OFKT06L5AFFNLBJ KC410M	S49
3767814	OFKT06L5AFENLBJ KC422M	S49
3768928	CCMT060204FP KCP05	B176
3768930	CCMT09T304FP KCP05	B176
3768936	CCMT060202FP KCP10	B176
3768937	CCMT060204FP KCP10	B176
3768940	CCMT09T308FP KCP10	B176
3768970	DCMT070208FP KCP05	B207
3768971	DCMT11T304FP KCP05	B207
3768972	DCMT11T308FP KCP05	B207
3768973	DCMT150408FP KCP05	B207
3768984	TCMT110308FP KCP05	B244
3768985	TCMT110312FP KCP05	B244
3768989	TCMT220408FP KCP05	B244
3768996	VBMT160404FP KCP05	B265
3768997	VBMT160408FP KCP05	B265
3769003	CCMT120412FP KCP10	B176
3769005	CPMT060202FP KCP10	B189
3769006	CPMT060204FP KCP10	B189
3769008	CPMT09T304FP KCP10	B189
3769009	CPMT09T308FP KCP10	B189
3769010	DCMT070204FP KCP10	B207
3769012	DCMT11T304FP KCP10	B207
3769013	DCMT11T308FP KCP10	B207
3769014	DCMT11T312FP KCP10	B207
3769015	DCMT150404FP KCP10	B207
3769017	DPMT070204FP KCP10	B214
3769018	DPMT11T304FP KCP10	B214
3769020	SCMT09T304FP KCP10	B230
3769021	SCMT09T308FP KCP10	B230
3769026	TCMT110204FP KCP10	B244
3769028	TCMT16T304FP KCP10	B244
3769029	TCMT16T308FP KCP10	B244
3769030	TCMT16T312FP KCP10	B244
3769033	TPMT110204FP KCP10	B254
3769035	TPMT16T304FP KCP10	B254
3769036	TPMT16T308FP KCP10	B254
3769037	VBMT110304FP KCP10	B265
3769038	VBMT160404FP KCP10	B265
3769039	VBMT160408FP KCP10	B265
3769050	CCMT060204FP KTP10	B176
3769051	CCMT060208FP KTP10	B176
3769052	CCMT09T302FP KTP10	B176
3769053	CCMT09T304FP KTP10	B176
3769054	CCMT09T308FP KTP10	B176
3769055	CPMT060202FP KTP10	B189
3769056	CPMT060204FP KTP10	B189
3769057	CPMT060208FP KTP10	B189
3769060	CPMT09T308FP KTP10	B189
3769061	DCMT070202FP KTP10	B207
3769063	DCMT11T302FP KTP10	B207
3769064	DCMT11T304FP KTP10	B207
3769065	DCMT11T308FP KTP10	B207
3769066	DPMT070204FP KTP10	B214
3769068	DPMT11T308FP KTP10	B214
3769069	SCMT09T308FP KTP10	B230
3769071	TCMT110202FP KTP10	B244
3769072	TCMT110204FP KTP10	B244
3769076	TCMT16T308FP KTP10	B244
3769082	VBMT110304FP KTP10	B265
3769083	VBMT160402FP KTP10	B265
3769084	VBMT160404FP KTP10	B265
3769085	VBMT160408FP KTP10	B265
3769093	CCMT060202FP KCP25	B176
3769094	CCMT060204FP KCP25	B176
3769095	CCMT060204FP KCM15	B176
3769096	CCMT060208FP KCP25	B176
3769097	CCMT09T302FP KCP25	B176
3769099	CCMT09T304FP KCM15	B176
3769103	CCMT09T304FP KCP25	B176
3769106	CCMT09T308FP KCP25	B176
3769107	CPMT09T304FP KCM15	B189
3769109	DCMT070204FP KCM15	B207
3769111	DCMT11T304FP KCM15	B207
3769112	DCMT11T308FP KCM15	B207

Dizin

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
3769114	DPMT070204FP KCM15	B214
3769118	SCMT09T308FP KCM15	B230
3769121	CPMT050204FP KCP25	B189
3769122	TCMT110208FP KCM15	B244
3769124	CPMT060202FP KCP25	B189
3769128	CPMT060204FP KCP25	B189
3769130	VBMT110304FP KCM15	B265
3769131	VBMT110308FP KCM15	B265
3769132	CPMT060208FP KCP25	B189
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3784064	193.524	H102–103
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3784066	193.526	H102–103
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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3794455	WD50FDS63639M	H103
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3794919	KSEMP3651FDS36A1M	H80, H92, H98
3794920	KSEMP3810FDS36A1M	H80, H92, H98
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3794933	KSEMP4445FDS40A1M	H80, H92, H98
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3794935	KSEMP5080FDS50A1M	H81, H92, H98
3794936	KSEMP5398FDS50A1M	H81, H92, H98
3794937	KSEMP5715FDS56A1M	H81, H92, H98
3794938	KSEMP6033FDS56A1M	H81, H92, H98
3794939	KSEMP6350FDS63A1M	H81, H92, H99
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3838225	WNMG080412MP KCP10	B157
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3842897	H40LSER5	D82
3842905	H50LSER27	D82
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3849320	HNGJ0905ANFNLDJ KC410M	S18, S22
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3852235	RPET1204M0ELE KCPK30	V73
3852284	RPPT1605M0SHP KC725M	V80
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3852395	RPPT1204M0SGP KC725M	V74
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3854274	A4SML2525M0610	C114
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3855178	EDPT140416PDSRGE KCPK30	T53, T62
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3855181	EDPT140431PDSRGE KCPK30	T53, T62
3855209	EDPT140404PDSRGE KC522M	T53, T62
3855210	EDPT140404PDSRGE KC725M	T53, T62
3855211	EDPT140404PDSRGE KCPK30	T53, T62
3855236	EDPT140408PDSRGE KC522M	T53, T62
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3855238	EDPT140408PDSRGE KCPK30	T53, T62
3855240	EDPT140412PDSRGE KC522M	T53, T62
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3855561	CNMG120408MP KCP10	B51
3855796	CM234R ASSY	B58–60, B66, B85, B89–90, B105–107, B132, B137, B152, B161, B163
3855854	B291A08800YPL KC7315	G95
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3856324	LT27ER4API382 KC5025	D55
3856327	LT27NR4API502 KC5025	D68
3856329	LT27NR4API382 KC5025	D68
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3856806	RIR02E1312 KC6305	K53
3856807	RIR03E1312 KC6305	K53
3856827	RIRT4C4512 KC6005	K54
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3858116	EDPT180508PDSRGE KC725M	T75
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3858727	RIR01EGU00 KC6105	K53
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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3967137	A4BHCL32K0317L	C122
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4032814	UEDE0800A4AH KC643M	P193
4032815	UEDE1000A4AH KC643M	P193
4032816	UEDE1200A4AH KC643M	P193
4032817	UEDE0400B4AH KC643M	P193
4032820	UEDE0600B4AH KC643M	P193
4032821	UEDE0800B4AH KC643M	P193
4032822	UEDE1000B4AH KC643M	P193
4032823	UEDE1200B4AH KC643M	P193

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
4033713	B707A12700FBS KN15	G115
4033714	B707A12700FBL KCMS15	G115
4033829	NA4L8 KCU25	D12
4033830	NA4R4 KCU25	D12
4033833	NA6L2 KCU25	D12
4033834	NA6L25 KCU25	D12
4033835	NA6L3 KCU25	D12
4033836	NA6R2 KCU25	D12
4033838	NA6R3 KCU25	D12
4033841	ND4050R KCU25	D14
4033845	NDC38RDL75 KCU25	D15
4033846	NDC38RDR75 KCU25	D15
4033852	NG1031L KCU25	C155
4033853	NG1047L KCU25	C155
4033854	NG1062L KCU25	C155
4033855	NG1094L KCU25	C155
4033856	NG5312R KCU25	C154
4033858	NG6375R KCU25	C154
4033859	NT1L KCU25	D25
4033863	NTB3RB KCU25	D20
4033872	NTC3R12E KCU25	D22
4033877	NTC3R18E KCU25	D22
4033882	NTU4R KCU25	D24
4033883	NU3094L KCU25	C161
4033886	NU3125R KCU25	C161
4033887	NV3RJ KCU25	C162
4033888	NV4LL KCU25	C162
4033889	NV4RL KCU25	C162
4033892	NWC3R14E KCU25	D25
4034717	A4G0200M02P02GMP KCU10	C95
4034718	A4G0205M02U02GMN KCU10	C96
4034720	A4G0250M2BP02GMP KCU10	C95
4034721	A4G0300M03P02GMP KCU10	C95
4034722	A4G0300M03P04GMP KCU10	C95
4034773	A4G0305M03U02GMN KCU10	C96
4034774	A4G0305M03U02GMP KCU10	C95
4034775	A4G0305M03U04GMN KCU10	C96
4034776	A4G0305M03U04GMP KCU10	C95
4034777	A4G0400M04P02GMP KCU10	C95
4034778	A4G0400M04P04GMP KCU10	C95
4034779	A4G0400M04P08GMP KCU10	C95
4034780	A4G0405M04U04GMN KCU10	C96
4034781	A4G0405M04U04GMP KCU10	C95
4034782	A4G0405M04U08GMN KCU10	C96
4034784	A4G0500M05P04GMP KCU10	C95
4034785	A4G0500M05P08GMP KCU10	C95
4034786	A4G0505M05U04GMN KCU10	C96
4034787	A4G0505M05U04GMP KCU10	C95
4034788	A4G0505M05U08GMN KCU10	C96
4034790	A4G0600M06P04GMP KCU10	C95
4034791	A4G0600M06P08GMP KCU10	C95
4034792	A4G0605M06U04GMN KCU10	C96
4034794	A4G0605M06U08GMN KCU10	C96
4034799	A4G0800M08P12GMP KCU10	C95
4034800	A4G0805M08U08GMN KCU10	C96
4034802	A4G094I2BP05GMN KCU10	C97
4034805	A4G1005M10U08GMP KCU10	C95
4034806	A4G125I03P05GMN KCU10	C97
4034807	A4G125I03P1GMN KCU10	C97
4034808	A4G187I04P1GMN KCU10	C97
4034809	A4G187I04P2GMN KCU10	C97
4034810	A4G250I06P1GMN KCU10	C97
4034811	A4G250I06P2GMN KCU10	C97
4034812	A4G375I10P2GMN KCU10	C97
4034813	A4R0200M02P00GMP KCU10	C96
4034815	A4R0300M03P00GMP KCU10	C96
4034816	A4R0305M03U00GMN KCU10	C97
4034817	A4R0400M04P00GMP KCU10	C96
4034818	A4R0405M04U00GMN KCU10	C97
4034819	A4R0500M05P00GMP KCU10	C96
4034820	A4R0505M05U00GMN KCU10	C97
4034821	A4R0600M06P00GMP KCU10	C96
4034822	A4R0605M06U00GMN KCU10	C97
4034823	A4R0800M08P00GMP KCU10	C96
4034824	A4R0805M08U00GMN KCU10	C97
4034825	A4R1005M10U00GMN KCU10	C97
4034826	A4R125I03P00GMN KCU10	C97
4034827	A4R187I04P00GMN KCU10	C97
4034828	A4R250I06P00GMN KCU10	C97
4034829	A4R312I08P00GMN KCU10	C97
4034878	WOEJ090512SRHD KC522M	V41
4034880	WOEJ090512SRHD KC725M	V41
4034881	WOEJ090512SRHD KCPK30	V41
4034882	WOEJ090512SRGD KC522M	V41
4034925	WOEJ090512SRGD KC725M	V41
4034927	WOEJ090512SRGD KCPK30	V41
4035459	T640M040X070R6HX-D1 KP6525	M63
4035460	T640M050X080R6HX-D1 KP6525	M63
4035461	T640M060X100R6HX-D1 KP6525	M63
4035462	T640M080X125R6HX-D1 KP6525	M63
4035463	T640M100X150R6HX-D1 KP6525	M63
4035464	T640M120X175R6HX-D6 KP6525	M63
4035465	T640M140X200R6HX-D6 KP6525	M63
4035466	T640M160X200R6HX-D6 KP6525	M63
4035467	T640M180X250R6HX-D6 KP6525	M63
4035468	T640M200X250R6HX-D6 KP6525	M63
4035469	T640M220X250R6HX-D6 KP6525	M63
4035525	T641M050X080R6HX-D1 KP6525	M64
4035526	T641M060X100R6HX-D1 KP6525	M64
4035527	T641M080X125R6HX-D1 KP6525	M64
4035528	T641M100X150R6HX-D1 KP6525	M64
4035529	T641M120X175R6HX-D6 KP6525	M64
4035530	T641M140X200R6HX-D6 KP6525	M64
4035531	T641M160X200R6HX-D6 KP6525	M64
4035532	T641M180X250R6HX-D6 KP6525	M64
4035533	T641M200X250R6HX-D6 KP6525	M64
4035585	RCMX3209M0RU KCP10	E61
4035586	RCMX3209M0RU KCK20	E61
4035593	RCMX2507M0RU KCK20	E61
4035595	RCMH2507M0RU KCP25	E60
4035698	LNUX191940RRF KCP10	E51
4036621	RPGN090300E KYSP30	V155
4036916	LNUX191940RRF KCP25	E51
4038003	LNPU2410ANSRHD KCPK30	S117
4038004	LNPU2410ANSRHD KCK15	S117
4038005	LNPU2410ANSRHD KC725M	S117
4039608	SM-906 KC720	S116, S120, S122
4039774	MS2236	V114–115
4040133	SPGX070308MD KCU25	J89
4040135	SPGX070308HP KCU25	J89
4040138	SPPX09T310MD KCU25	J89
4040139	SPPX120412MD KCU25	J89
4040141	SPPX120412HP KCU25	J89
4040142	SPPX15T512MD KCU25	J89
4040758	RPET1204M0ELEJ KC422M	V73
4040905	KCI3M	V153–154
4040931	MEGA45D125B06LN24	S116
4040932	MEGA45D160C07LN24	S116
4040954	MEGA45D250C11LN24	S116
4040955	MEGA45D315C13LN24	S116
4042332	KSHRHF50A04RS15HN09	S17
4042533	KSHRHF63A05RS15HN09	S17
4042534	KSHRHF80A06RS15HN09	S17
4042535	KSHRHF100B08RS15HN09	S17
4042536	KSHRHF125B09RS15HN09	S17
4042537	KSHRHF160C12RS15HN09	S17
4042538	B976Z02383 KC7315	G138
4042539	B976Z02400 KC7315	G138
4042540	B976Z02439 KC7315	G138
4042541	B976Z02489 KC7315	G138
4042542	B976Z02500 KC7315	G138
4042543	B976Z02578 KC7315	G138
4042544	B976Z02600 KC7315	G138
4042545	B976Z02642 KC7315	G138
4042546	B976Z02705 KC7315	G138
4042547	B976Z02779 KC7315	G138
4042548	B976Z02800 KC7315	G138
4042549	B976Z02820 KC7315	G138
4042550	B976Z02870 KC7315	G138
4042551	B976Z02900 KC7315	G138
4042552	B976Z02947 KC7315	G138
4042581	40E03R045M16RP16	V77
4042582	40E02R040A32RP16L200	V77
4042693	52A04RS90RP16	V78
4042694	63A04RS90RP16	V78
4042695	63A06RS90RP16	V78
4042696	80A05RS90RP16	V78
4042697	80A07RS90RP16	V78
4042698	100B06RS90RP16	V78
4042699	100B08RS90RP16	V78
4042700	125B09RS90RP16	V78
4042840	SPGX070308FP KCU25	J90
4042841	SPPX09T310FP KCU25	J90
4042842	SPPX09T310HP KCU25	J89
4042887	SPGX070308FP KCPK10	J90
4042888	SPGX070308MD KCPK10	J89
4042889	SPGX070308HP KCPK10	J89
4042890	SPPX09T310FP KCPK10	J90
4042891	SPPX09T310MD KCPK10	J89
4042892	SPPX09T310HP KCPK10	J89
4042903	SPPX120412FP KCPK10	J90
4042904	SPPX120412MD KCPK10	J89
4042905	SPPX120412HP KCPK10	J89
4042906	SPPX15T512FP KCPK10	J90
4042907	SPPX15T512MD KCPK10	J89
4042908	SPPX15T512HP KCPK10	J89
4042913	SPPX120412FP KCU25	J90
4042914	SPPX15T512FP KCU25	J90
4042915	SPPX15T512HP KCU25	J89
4042933	SPGX070308FP KCU40	J90
4042934	SPGX070308MD KCU40	J89
4042935	SPGX070308HP KCU40	J89
4042936	SPPX09T310FP KCU40	J90
4042937	SPPX09T310MD KCU40	J89
4042938	SPPX09T310HP KCU40	J89
4042939	SPPX120412FP KCU40	J90
4042940	SPPX120412MD KCU40	J89
4042941	SPPX120412HP KCU40	J89
4042942	SPPX15T512FP KCU40	J90
4042943	SPPX15T512MD KCU40	J89
4042944	SPPX15T512HP KCU40	J89
4043046	32E03R045M16RP12	V70
4043047	40E04R045M16RP12	V70
4043048	32A03R040B32RP12	V70
4043049	32A03R040A32RP12L190	V71
4043050	40A04RS90RP12	V72
4043051	50A04RS90RP12	V72
4043052	50A05RS90RP12	V72
4043063	63A05RS90RP12	V72
4043064	80A06RS90RP12	V72
4043065	100B07RS90RP12	V72
4044264	B532A07200SPF KDF400	G105
4044820	TCGT110201LF KCU10	B243
4044821	TCGT110204HP KCU10	B243
4044822	TCGT110204LF KCU10	B243
4045101	VNGG160402LF KCU10	B143
4045102	VNGG160404LF KCU10	B143
4045134	CCGT060202HP KCU10	B175
4045135	CCGT060202LF KCU10	B175
4045136	CCGT060201LF KCU10	B175
4045137	CCGT060204HP KCU10	B175
4045138	CCGT060204LF KCU10	B175
4045140	CCGT060208LF KCU10	B175
4045141	CCGT09T302HP KCU10	B175
4045142	CCGT09T302LF KCU10	B175
4045143	VNGG160408LF KCU10	B143
4045144	VNGG220408LF KCU10	B143
4045145	VNGP160401 KCU10	B143
4045146	VNGP160402 KCU10	B143
4045147	VNGP220404 KCU10	B143
4045148	VNGP220408 KCU10	B143
4045149	VNMG160404FF KCU10	B145
4045150	VNMG160404MP KCU10	B146
4045151	VNMG160404P KCU10	B146
4045163	VNMG160408FF KCU10	B145
4045164	VNMG160408MP KCU10	B146
4045166	VNMG160408P KCU10	B146
4045167	VNMG160408RP KCU10	B147
4045168	VNMG160408UP KCU10	B147
4045169	VNMG160412MP KCU10	B146
4045170	WNGG080402LF KCU10	B154
4045172	WNGG080404LF KCU10	B154
4045174	WNMG060404FW KCU10	B156
4045175	WNMG060404MP KCU10	B157
4045176	WNMG060408FW KCU10	B156
4045177	WNMG060408MP KCU10	B157
4045178	WNMG060408RP KCU10	B159
4045179	WNMG080404FW KCU10	B156
4045180	WNMG080404P KCU10	B158
4045181	WNMG080408FW KCU10	B156
4045182	WNMG080408MP KCU10	B157
4045184	WNMG080408P KCU10	B158
4045185	WNMG080408RP KCU10	B159
4045186	WNMG080408UP KCU10	B160
4045187	WNMG080412MP KCU10	B157
4045188	WNMG080412RP KCU10	B159
4045189	WNMG080412UP KCU10	B160
4045193	CCGT09T301LF KCU10	B175
4045194	CCGT09T304HP KCU10	B175
4045195	CCGT09T304LF KCU10	B175
4045196	CCGT09T308HP KCU10	B175
4045197	CCGT09T308LF KCU10	B175
4045198	CCGT120402HP KCU10	B175
4045199	CCGT120404HP KCU10	B175
4045200	CCGT120408HP KCU10	B175
4045202	CCMT060204FW KCU10	B176
4045204	CCMT09T304FW KCU10	B176
4045205	CCMT09T304MW KCU10	B178
4045206	CCMT09T308FW KCU10	B176
4045207	CCMT09T308MW KCU10	B178
4045210	CPGH09T301 KCU10	B188
4045211	CPGH09T302 KCU10	B188
4045212	CPGH09T304 KCU10	B188
4045213	CPGH09T308 KCU10	B188
4045214	CPGT060202HP KCU10	B188
4045215	CPGT060202LF KCU10	B189
4045216	CPGT060201LF KCU10	B189
4045217	CPGT060204HP KCU10	B188
4045218	CPGT060204LF KCU10	B189
4045220	CPGT060208LF KCU10	B189
4045221	CPGT09T302HP KCU10	B188
4045222	CPGT09T302LF KCU10	B189
4045223	CPGT09T304HP KCU10	B188
4045224	CPGT09T304LF KCU10	B189
4045225	CPGT09T308HP KCU10	B188
4045226	CPGT09T308LF KCU10	B189
4045228	CPMT060204FW KCU10	B189
4045229	CPMT060208FW KCU10	B189
4045231	CPMT09T304MW KCU10	B191
4045232	CPMT09T308FW KCU10	B189
4045237	DCGT070202HP KCU10	B206
4045238	DCGT070201LF KCU10	B206
4045239	DCGT070204HP KCU10	B206
4045240	DCGT070208HP KCU10	B206
4045241	DCGT11T302HP KCU10	B206
4045242	DCGT11T301LF KCU10	B206
4045245	DCGR150404 KCU10	E28
4045246	DCGR150408 KCU10	E28
4045248	KCGR110304L08 KCU10	E29
4045249	KCGR110304R08 KCU10	E29
4045250	KCGR110308L08 KCU10	E29
4045251	KCGR110308R08 KCU10	E29
4045263	DCGT11T304HP KCU10	B206
4045264	DCGT11T308HP KCU10	B206
4045265	DCGT150408LF KCU10	B206
4045266	DCMT11T304FW KCU10	B207
4045267	DCMT11T304MW KCU10	B208
4045268	DCMT11T308FW KCU10	B207
4045269	DCMT11T308LF KCU10	B207
4045270	DCMT11T308MW KCU10	B208
4045272	DPGT070202LF KCU10	B214
4045274	DPGT070204HP KCU10	B214
4045275	DPGT070204LF KCU10	B214
4045277	DPGT11T302LF KCU10	B214
4045279	DPGT11T304HP KCU10	B214
4045280	DPGT11T304LF KCU10	B214
4045281	DPGT11T308HP KCU10	B214
4045282	DPGT11T308LF KCU10	B214
4045283	DPMT070208FW KCU10	B215
4045284	RCGT10T3M0HP KCU10	B222
4045285	RCGT1204M0HP KCU10	B222
4045286	RCMT0602M0 KCU10	B224
4045288	RCMT10T3M0 KCU10	B224
4045289	RCMT1204M0 KCU10	B224
4045290	RCMT1605M0 KCU10	B224
4045291	RCMT2006M0 KCU10	B224
4045292	RCMT060200 KCU10	B224
4045293	RCMT09T300 KCU10	B224
4045294	SPGT09T304LF KCU10	B238
4045295	SPGT09T308LF KCU10	B238
4045316	TCGT16T304HP KCU10	B243
4045317	TCGT16T304LF KCU10	B243
4045318	TCGT16T308HP KCU10	B243
4045319	TCGT16T308LF KCU10	B243
4045321	TPGT090202LF KCU10	B254
4045322	TPGT090204LF KCU10	B254
4045323	TPGT110202HP KCU10	B254

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
4045324	TPGT110202LF KCU10	B254
4045325	TPGT110201LF KCU10	B254
4045327	TPGT110204LF KCU10	B254
4045329	TPGT110208LF KCU10	B254
4045330	TPGT16T302HP KCU10	B254
4045331	TPGT16T304HP KCU10	B254
4045333	TPGT16T308HP KCU10	B254
4045334	TPGT16T308LF KCU10	B254
4045335	VBGT110302HP KCU10	B264
4045336	VBGT110302LF KCU10	B264
4045337	VBGT110301LF KCU10	B264
4045338	VBGT110304HP KCU10	B264
4045339	VBGT110304LF KCU10	B264
4045340	VBGT160402LF KCU10	B264
4045341	VBGT160401LF KCU10	B264
4045342	VBGT160404HP KCU10	B264
4045343	VBGT160404LF KCU10	B264
4045344	VBGT160408HP KCU10	B264
4045345	WPGTS30102UF KCU10	B272
4045346	WPGTS30101UF KCU10	B272
4045347	WPGT040202UF KCU10	B272
4045406	KNGX220408L20 KCU10	E30
4045409	KCGX110302L15 KCU10	E31
4045410	KCGX110304L15 KCU10	E31
4045412	KNGX150401R15 KCU10	E30
4045413	KNGX150402R15 KCU10	E30
4045415	KNGX150408R20 KCU10	E30
4045416	KNGX220408R32 KCU10	E30
4045417	KCGX110301R15 KCU10	E31
4045418	KCGX110302R15 KCU10	E31
4045419	KCGX110304R15 KCU10	E31
4045420	KCGX110308R15 KCU10	E31
4045425	VCMR160408 KCU10	E33
4045426	VCGR160402 KCU10	E34
4045427	VCGR160404 KCU10	E34
4045428	VCGR160408 KCU10	E34
4045429	VCGR160412 KCU10	E34
4045430	VCGR160416 KCU10	E34
4046029	F4BS0600AWM38R050 KCPM15	P19
4046030	F4BS0600AWM38R100 KCPM15	P19
4046031	F4BS0800AWM38R050 KCPM15	P19
4046032	F4BS0800AWM38R100 KCPM15	P19
4046063	B291A04763YPL KC7315	G94
4046064	B291A11113YPL KC7315	G95
4046234	F4AS0600AWM38R050 KCPM15	P18
4046235	F4AS0600AWM38R100 KCPM15	P18
4046236	F4AS0600BWM38R050 KCPM15	P18
4046237	F4AS0600BWM38R100 KCPM15	P18
4046238	F4AS0800AWM38R050 KCPM15	P18
4046239	F4AS0800AWM38R100 KCPM15	P18
4046240	F4AS0800BWM38R050 KCPM15	P18
4046241	F4AS0800BWM38R100 KCPM15	P18
4046242	F4AS1000AWL38R050 KCPM15	P18
4046263	F4AS0400ADL38 KCPM15	P16
4046264	F4AS0400BDL38 KCPM15	P16
4046265	F4AS0500ADL38 KCPM15	P16
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4046270	F4AS0800BDL38 KCPM15	P16
4046271	F4AS1000ADL38 KCPM15	P16
4046272	F4AS1000BDL38 KCPM15	P16
4046273	F4AS1200ADL38 KCPM15	P16
4046274	F4AS1200BDL38 KCPM15	P16
4046275	F4AS1400BDL38 KCPM15	P16
4046276	F4AS1600ADL38 KCPM15	P16
4046277	F4AS1600BDL38 KCPM15	P16
4046278	F4AS1800ADL38 KCPM15	P16
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4046280	F4AS2000ADL38 KCPM15	P16
4046281	F4AS2000BDL38 KCPM15	P16
4046282	F4AS2500ADL38 KCPM15	P16
4046283	F4AS2500BDL38 KCPM15	P16
4046284	UCDE0400A5ARA KCPM15	P30
4046285	UCDE0400A5ASA KCPM15	P30
4046286	UCDE0400B5ARA KCPM15	P30
4046288	UCDE0500A5ARA KCPM15	P30
4046289	UCDE0500A5ASA KCPM15	P30
4046290	UCDE0500B5ARA KCPM15	P30
4046291	UCDE0600A5ARA KCPM15	P30
4046292	UCDE0600A5ASA KCPM15	P30
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4047811	KSEMP2858FDS28A1M	H80, H91, H98
4047812	KSEMP2900FDS28A1M	H80, H91, H98
4047823	KSEMP2937FDS28A1M	H80, H91, H98
4047824	KSEMP3000FDS28A1M	H80, H91, H98
4047825	KSEMP3017FDS28A1M	H80, H91, H98
4047826	KSEMP3096FDS28A1M	H80, H91, H98

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
4047827	KSEMP3100FDS28A1M	H80, H91, H98
4047829	SPGX060304MD KC7140	J89
4047830	SPGX070304MD KC7140	J89
4047831	SPPX09T308MD KC7140	J89
4047832	SPPX120408MD KC7140	J89
4047843	SPPX15T508MD KC7140	J89
4047845	D2FIX110404RHP KCU25	E9
4047849	D2FIX150504RHP KCU25	E9
4047850	D2FIX150508RHP KCU25	E9
4047864	C2FIX150512RMN KCU25	E8
4047865	C2FIX110404LMN KCU25	E8
4047867	C2FIX150504LMN KCU25	E8
4047868	C2FIX150508LMN KCU25	E8
4047870	D4FIX140604RMN KCU25	E11
4047871	D4FIX140608RMN KCU25	E11
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4050058	RCGT0803M0HP KCU25	B222
4050060	CNGP120408 KCU10	B46
4050061	CNMG120408FP KCU10	B49
4050062	CNMG120412FP KCU10	B49
4050332	KSEM1932HPGM KC7315	H42
4050372	CCGT060202HP KCU25	B175
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4050397	CNGG120404FS KCU25	B46
4050398	CNGG120408FS KCU25	B46
4050399	CNMG120402MS KCU25	B52
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4050402	CNMG120404MS KCU25	B52
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4050405	CCGT09T302HP KCU25	B175
4050406	CCGT09T304HP KCU25	B175
4050407	CCGT09T308HP KCU25	B175
4050408	CCGT120402HP KCU25	B175
4050410	CCGT120408HP KCU25	B175
4050412	CPGH09T302 KCU25	B188
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4050415	CPGT060202HP KCU25	B188
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4050431	DPGT11T308HP KCU25	B214
4050432	RCGT10T3M0HP KCU25	B222
4050434	TCGT110202HP KCU25	B243
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4050437	TCGT16T302HP KCU25	B243
4050441	TPGT110204HP KCU25	B254
4050444	TPGT16T304HP KCU25	B254
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4050454	CNMG120408MS KCU25	B52
4050455	CNMG120412MS KCU25	B52
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4050628	TPGH160304 KCU25	B253
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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4053226	B256A03000YPC KCK10	G58
4053228	B256A03175YPC KCK10	G58
4053230	B256A03264YPC KCK10	G58
4053232	B256A03500YPC KCK10	G58
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4053238	B256A04000YPC KCK10	G58
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4053241	B256A04200YPC KCK10	G58
4053242	B256A04300YPC KCK10	G58
4053243	B256A04366YPC KCK10	G58
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4053245	B256A04623YPC KCK10	G58
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4053285	B256A09347YPC KCK10	G59
4053287	B256A09500YPC KCK10	G60
4053288	B256A09600YPC KCK10	G60
4053289	B256A09700YPC KCK10	G60

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
4053290	B256A09800YPC KCK10	G60
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4053324	CDHBS4T004 KCU10	B184
4053325	CDHHS4T002L KCU10	B184
4053326	CDHHS4T002R KCU10	B184
4053327	CDHHS4T004L KCU10	B184
4053328	CDHHS4T004R KCU10	B184
4053336	TDHB07T1202 KCU10	B249
4053337	TDHB07T1204 KCU10	B249
4053339	TDHH07T1202L KCU10	B249
4053340	TDHH07T1202R KCU10	B249
4053341	TDHH07T1204L KCU10	B249
4053342	TDHH07T1204R KCU10	B249
4053344	TPGH160304 KCU10	B253
4053352	DNGG150402LF KCU10	B74
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4053369	DNGP150604 KCU10	B74
4053370	DNGP150608 KCU10	B74
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4053374	DNMG110408RP KCU10	B81
4053376	DNMG150404CT KCU10	B76
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4053407	DNMG150612RP KCU10	B81
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4053409	RNMG190600RN KCU10	B94
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4054299	D2FIX110405LMN KCP40	E9
4054300	D2FIX110405RMN KCP40	E9
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4054362	C2FIX180610LMN KCP40	E8
4054368	C8FIX120503RRP KCP40	E12
4054372	C8FIX150605LRN KCP40	E11
4054374	C8FIX150605RRN KCP40	E11
4054375	C8FIX150608RRN KCP40	E11
4054377	C8FIX150603RMP KCP40	E12
4054380	C8FIX180808RRN KCP40	E11
4054381	C8FIX180812RRN KCP40	E11
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4054387	C2FIX150505RMN KCP25	E8
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4054391	C2FIX180610LMN KCP25	E8
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4054740	KR80SVU92152MCLB	K84
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4057828	HNPJ130720ANSNHD KCPK30	S27
4057830	HNPJ130720ANSNHD KC725M	S27
4057854	HNPJ130735ANSNHD KCPK30	S27
4057855	HNPJ130735ANSNHD KCK15	S27
4057865	HNGJ1307ANENGD KCPK30	S26
4057867	HNGJ1307ANENGD KC725M	S26
4058547	LNEQ1235R03 4 KCK15	U20
4058551	LNEU1240R03SGP 4 KC725M	U20
4058763	LNEQ1240R03 4 KCPK30	U20
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4059043	T620M330X350R6H-XL KP6525	M9
4059045	T620M360X400R6H-XL KP6525	M9
4059047	T620M420X450R6H-XL KP6525	M9
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4059486	KSHR315C18RS45HN13	S25
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4059939	LNEU1240R16 4 KC725M	U19
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4060102	LNEU1235R03SGP 4 KC725M	U20
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4060934	KSHR315C14RS45HN13	S25
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4060937	KSHR200C12RS45HN13	S25
4060938	KSHR250C14RS45HN13	S25
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4062443	EBUCW0074	K141
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4075269	CNMG120412MP KCP10	B51
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4075271	DNMG150608MP KCP10	B79
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4075307	DNMG150408MP KCP25	B79
4075308	DNMG150608MP KCP25	B79
4075309	TNMG160408MP KCP25	B125
4075310	WNMG060408MP KCP25	B157
4075311	WNMG080408MP KCP25	B157
4078132	B967A15300 KC7315	G134

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
4078652	CNMG120404FP KCP10	B49
4078704	DNMG110408FP KCP10	B77
4078705	DNMG150408FP KCP10	B77
4078706	DNMG150608FP KCP10	B77
4078708	VNMG160408FP KCP10	B145
4078709	WNMG080404FP KCP10	B156
4078710	WNMG080408FP KCP10	B156
4078711	CNMG120408FP KCP25	B49
4078712	DNMG150408FP KCP25	B77
4078723	DNMG150608FP KCP25	B77
4078724	WNMG080404FP KCP25	B156
4078725	WNMG080408FP KCP25	B156
4080356	B967A10200 KC7315	G133
4080393	B967A12800 KC7315	G134
4080395	B967A15000 KC7315	G134
4081832	RIQ09E1306 KC6005	K55
4086429	B976A05558 KC7315	G139
4086430	B977A03454 KC7315	G138
4086431	B977A16670 KC7315	G142
4086935	A4G0405M04U08GMN KCP10	C96
4086956	A4R0405M04U00GMN KCP10	C97
4089831	B967A11300 KC7315	G133
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4090568	F3AU0380ADK38 KC643M	P187
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4109954	NTF2L KCU25	D23

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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4111882	B221A14400HP KCPK15	G49
4111883	B221A14500HP KCPK15	G49
4111884	B221A14600HP KCPK15	G49
4111885	B221A14684HP KCPK15	G49
4111886	B221A14700HP KCPK15	G49
4111887	B221A14800HP KCPK15	G49
4111888	B221A14900HP KCPK15	G49
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4111890	B221A15083HP KCPK15	G49
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4111895	B221A15479HP KCPK15	G49
4111896	B221A15500HP KCPK15	G49
4111897	B221A15600HP KCPK15	G49
4111898	B221A15700HP KCPK15	G49
4111899	B221A15800HP KCPK15	G49
4111900	B221A15875HP KCPK15	G49
4111901	B221A15900HP KCPK15	G49
4111902	B221A16000HP KCPK15	G49
4111903	B221A16500HP KCPK15	G49
4111904	B221A17000HP KCPK15	G49
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4111910	B221A19000HP KCPK15	G49
4111911	B221A19050HP KCPK15	G49
4111912	B221A19500HP KCPK15	G49
4111913	B221A20000HP KCPK15	G49
4111914	B221A20500HP KCPK15	G49
4111915	B221A21000HP KCPK15	G49
4111920	B222A03048HP KCPK15	G46
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4111943	B222A04366HP KCPK15	G46
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4111946	B222A04763HP KCPK15	G46
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4111954	B222A05558HP KCPK15	G47
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4111972	B222A08334HP KCPK15	G47
4111973	B222A08433HP KCPK15	G47
4111974	B222A08500HP KCPK15	G47
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4112018	B222A20000HP KCPK15	G49
4112019	B222A06700HP KCPK15	G47
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4112446	B224A07400HP KCPK15	G52
4112447	B224A08839HP KCPK15	G53
4112448	B224A09093HP KCPK15	G53
4112449	B224A09400HP KCPK15	G53
4112450	B224A12800HP KCPK15	G54
4112451	B224A13100HP KCPK15	G54
4112452	B224A13495HP KCPK15	G54
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4112459	B225A06909HP KCPK15	G52
4112460	B225A07366HP KCPK15	G52
4112461	B225A08839HP KCPK15	G53
4112462	B225A09093HP KCPK15	G53
4112463	B225A12304HP KCPK15	G54
4112464	B225A13495HP KCPK15	G54
4112465	B225A03048HP KCPK15	G51
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4112471	B225A03300HP KCPK15	G51
4112472	B225A03400HP KCPK15	G51
4112483	B225A10300HP KCPK15	G53
4112484	B225A10320HP KCPK15	G53
4112485	B225A10400HP KCPK15	G53
4112486	B225A10500HP KCPK15	G53

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
4112487	B225A10600HP KCPK15	G53
4112488	B225A10700HP KCPK15	G53
4112489	B225A10716HP KCPK15	G53
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4112499	B225A11509HP KCPK15	G53
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4112767	B224A19000HP KCPK15	G55
4112768	B224A19050HP KCPK15	G55
4112769	B224A20000HP KCPK15	G55
4113708	A4C0155N00CF01 KCU25	C102
4113709	A4C0155R10CF01 KCU25	C103
4113710	A4C0205L06CF02 KCU25	C103
4113711	A4C0205N00CF02 KCU25	C102
4113712	A4C0205R06CF02 KCU25	C103
4113983	KF2X25Z02M12W009	V38
4113984	KF2X32Z03M16W009	V38
4113985	KF2X35Z03M16W009	V38
4113986	KF2X42Z04M16W009	V38
4113987	KF2X25Z02A25W009L140	V39
4113988	KF2X25Z02A25W009L200	V39
4113989	KF2X25Z02A25W009L300	V39
4113990	KF2X28Z02A25W009L200	V39
4113991	KF2X32Z03A32W009L150	V39
4113992	KF2X32Z03A32W009L200	V39
4113993	KF2X32Z03A32W009L300	V39
4113994	KF2X35Z03A32W009L200	V39
4113995	KF2X40Z04W009	V40
4113996	KF2X50Z05W009	V40
4113997	KF2X52Z05W009	V40
4113998	KF2X63Z05W009	V40
4113999	KF2X66Z06W009	V40
4114000	KF2X80Z07W009	V40
4114283	A4C0205R10CF02 KCU25	C103
4114284	A4C0255N00CF02 KCU25	C102
4114285	A4C0305L06CF02 KCU25	C103
4114286	A4C0305L10CF02 KCU25	C103
4114287	A4C0305N00CF02 KCU25	C102
4114288	A4C0305R06CF02 KCU25	C103
4114289	A4C0305R10CF02 KCU25	C103
4114290	A4C0405L06CF02 KCU25	C103
4114291	A4C0405L10CF02 KCU25	C103
4114292	A4C0405N00CF02 KCU25	C102
4114293	A4C0405R06CF02 KCU25	C103
4114294	A4C0405R10CF02 KCU25	C103
4114295	A4G0200M02P02GMP KCU25	C95
4114296	A4G0205M02U02GMN KCU25	C96
4114297	A4G0205M02U02GMP KCU25	C95
4114298	A4G0255M2BU02GMP KCU25	C95
4114299	A4G0300M03P02GMP KCU25	C95
4114300	A4G0300M03P04GMP KCU25	C95
4114301	A4G0305M03U02B KCU25	C98
4114302	A4G0305M03U02GMN KCU25	C96
4114303	A4G0305M03U02GMP KCU25	C95
4114304	A4G0305M03U04GMN KCU25	C96
4114305	A4G0305M03U04GMP KCU25	C95
4114306	A4G0400M04P02GMP KCU25	C95
4114307	A4G0400M04P04GMP KCU25	C95
4114308	A4G0400M04P08GMP KCU25	C95
4114309	A4G0405M04U04GMN KCU25	C96
4114310	A4G0405M04U04GMP KCU25	C95
4114311	A4G0405M04U08GMN KCU25	C96
4114312	A4G0405M04U08GMP KCU25	C95
4114313	A4G0500M05P04GMP KCU25	C95
4114315	A4G0505M05U04B KCU25	C98
4114316	A4G0505M05U04GMN KCU25	C96
4114317	A4G0505M05U04GMP KCU25	C95
4114318	A4G0505M05U08GMN KCU25	C96
4114319	A4G0505M05U08GMP KCU25	C95
4114320	A4G0600M06P04GMP KCU25	C95
4114321	A4G0600M06P08GMP KCU25	C95

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
4114322	A4G0605M06U04B KCU25	C98
4114323	A4G0605M06U04GMN KCU25	C96
4114325	A4G0605M06U08GMN KCU25	C96
4114328	A4G0800M08P08GMP KCU25	C95
4114329	A4G0805M08U08GMN KCU25	C96
4114330	A4G0805M08U08GMP KCU25	C95
4114331	A4G0805M08U12GMN KCU25	C96
4114333	A4G1005M10U08GMN KCU25	C96
4114334	A4G1005M10U08GMP KCU25	C95
4114335	A4G125I03P05GMN KCU25	C97
4114336	A4G125I03P1GMN KCU25	C97
4114337	A4G187I04P1GMN KCU25	C97
4114338	A4G187I04P2GMN KCU25	C97
4114339	A4G250I06P1GMN KCU25	C97
4114340	A4G250I06P2GMN KCU25	C97
4114341	A4G312I08P1GMN KCU25	C97
4114343	A4R0200M02P00GMP KCU25	C96
4114344	A4R0205M02U00GMN KCU25	C97
4114345	A4R0300M03P00GMP KCU25	C96
4114346	A4R0305M03U00GMN KCU25	C97
4114347	A4R0400M04P00GMP KCU25	C96
4114348	A4R0405M04U00GMN KCU25	C97
4114349	A4R0500M05P00GMP KCU25	C96
4114350	A4R0505M05U00GMN KCU25	C97
4114351	A4R0600M06P00GMP KCU25	C96
4114352	A4R0605M06U00GMN KCU25	C97
4114353	A4R0800M08P00GMP KCU25	C96
4114354	A4R0805M08U00GMN KCU25	C97
4114355	A4R1005M10U00GMN KCU25	C97
4114356	A4R125I03P00GMN KCU25	C97
4114357	A4R187I04P00GMN KCU25	C97
4114358	A4R250I06P00GMN KCU25	C97
4114696	B967A09800 KC7315	G133
4114713	B967A11800 KC7315	G134
4115401	DFR040304ST KD1425	J85
4115433	DFT05T308ST KD1425	J85
4115434	DFT06T308ST KD1425	J85
4115435	DFT070408ST KD1425	J85
4115436	DFT090508ST KD1425	J85
4115437	DFT110508ST KD1425	J85
4118347	VCGR160404 KCP25	E34
4119190	HNGJ0604ANENLD KCPK30	S6, S12, S15
4119224	HNGJ0604ANENLD KC725M	S6, S12, S15
4119227	HNGJ0604ANENLD KCK15	S6, S12, S15
4119228	HNPJ0604ANSNHD KCPK30	S7, S13, S16
4119229	HNPJ0604ANSNHD KC725M	S7, S13, S16
4119230	HNPJ0604ANSNHD KCK15	S7, S13, S16
4119253	XNGJ0604ANENLD3W KC725M	S12
4119639	HNGJ060432ANENLD KCPK30	S6, S12, S15
4119640	HNGJ060432ANENLD KC725M	S6, S12, S15
4119696	HNPJ0604ANSNGD KC520M	S7, S13, S16
4119697	HNPJ0604ANSNGD KC522M	S7, S13, S16
4119699	HNPJ0604ANSNGD KCK15	S7, S13, S16
4119700	HNPJ0604ANSNGD KCPK30	S7, S13, S16
4119701	HNPJ0604ANSNGD KC725M	S7, S13, S16
4119702	HNPJ0604ANSNHD KC520M	S7, S13, S16
4119703	HNPJ0604ANSNHD KC522M	S7, S13, S16
4119989	HNPJ060432ANSNHD KC522M	S7, S13, S16
4119991	HNPJ060432ANSNHD KCK15	S7, S13, S16
4119992	HNPJ060432ANSNHD KCPK30	S7, S13, S16
4120003	HNPJ060432ANSNHD KC725M	S7, S13, S16
4120661	A4G0305M03U04GMN KCP25	C96
4121491	B051A14000CPG KC7325	G21
4121505	B052A03300CPG KC7325	G19
4121528	B051A03200CPG KC7325	G19
4121529	B051A04000CPG KC7325	G19
4121532	B051A05900CPG KC7325	G19
4121534	B051A06000CPG KC7325	G20
4121574	HNGJ0604ANFNLDJ K313	S6, S11, S15
4121575	HNGJ0604ANFNLDJ KC410M	S6, S11, S15
4121576	HNGJ0604ANENLD KC510M	S6, S12, S15
4121577	HNGJ0604ANENLD KC520M	S6, S12, S15
4121578	HNGJ0604ANENLD KC522M	S6, S12, S15
4121604	XNGJ0604ANFNLDJ3W KC410M	S11
4121605	XNGJ0604ANENLD3W KC510M	S12
4121607	XNGJ0604ANENLD3W KC522M	S12
4121683	SNMG120408MS KCU25	B99
4121684	SNMG120408RP KCU25	B101
4121685	SNMG120412MS KCU25	B99
4121686	SNMG150608MS KCU25	B99
4121687	SNMG150612MS KCU25	B99
4121688	SNMG150616RP KCU25	B101
4121689	SNMG190612MS KCU25	B99
4121690	SNMG190616RP KCU25	B101
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4121696	TNMG160404MS KCU25	B126
4121697	TNMG160408MS KCU25	B126
4121698	TNMG160408RP KCU25	B128
4121699	TNMG160412RP KCU25	B128
4121700	TNMG220404MS KCU25	B126
4121701	TNMG220408MS KCU25	B126
4121702	TNMG220408RP KCU25	B128
4121703	TNMG220412MS KCU25	B126
4121704	TNMG220412RP KCU25	B128
4121705	TNMG220416RP KCU25	B128
4121706	TNMG270608MS KCU25	B126
4121707	TNMG270612RP KCU25	B128
4121708	VNGG160402FS KCU25	B143
4121710	VNGG160404FS KCU25	B143
4121711	VNGG160408FS KCU25	B143
4121712	VNMG160402MS KCU25	B146
4121713	VNMG160401MS KCU25	B146
4121714	VNMG160404MS KCU25	B146
4121715	VNMG160408MS KCU25	B146
4121716	VNMG160408RP KCU25	B147
4121717	VNMG160412RP KCU25	B147
4121718	VNMG220404MS KCU25	B146
4121719	VNMG220408MS KCU25	B146
4121720	WNMG060408MS KCU25	B158
4121721	WNMG060408RP KCU25	B159
4121722	WNMG080402MS KCU25	B158
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4121725	WNMG080408RP KCU25	B159
4121726	WNMG080412RP KCU25	B159
4121727	WNMG080416RP KCU25	B159
4122886	KSHR050A05RS45HN06	S10
4122887	KSHR063A04RS45HN06	S10
4122889	KSHR063A06RS45HN06	S10
4124262	KSHR125B16RS45HN06	S10
4124313	KSHR040A05RS45HN06	S10
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4124325	UGDE0600A5ARB KC643M	P36
4124326	UGDE0600A5ARC KC643M	P36
4124327	UGDE0600A5BRA KC643M	P37
4124328	UGDE0600A5BRB KC643M	P37
4124329	UGDE0600A5BRC KC643M	P37
4124330	UGDE0800A5ARA KC643M	P36
4124331	UGDE0800A5ARB KC643M	P36
4124332	UGDE0800A5ARC KC643M	P36
4124343	UGDE0800A5BRA KC643M	P37
4124344	UGDE0800A5BRB KC643M	P37
4124345	UGDE0800A5BRC KC643M	P37
4124346	UGDE1000A5ARA KC643M	P36
4124347	UGDE1000A5ARB KC643M	P36
4124348	UGDE1000A5ARC KC643M	P36
4124349	UGDE1000A5ARD KC643M	P36
4124350	UGDE1000A5BRA KC643M	P37
4124351	UGDE1000A5BRB KC643M	P37
4124352	UGDE1000A5BRC KC643M	P37
4124353	UGDE1000A5BRD KC643M	P37
4124354	UGDE1200A5ARA KC643M	P36
4124355	UGDE1200A5ARB KC643M	P36
4124356	UGDE1200A5ARC KC643M	P36
4124357	UGDE1200A5ARD KC643M	P36
4124358	UGDE1200A5BRA KC643M	P37
4124359	UGDE1200A5BRB KC643M	P37
4124360	UGDE1200A5BRC KC643M	P37
4124361	UGDE1200A5BRD KC643M	P37
4124362	UGDE1600A5ARA KC643M	P36
4124363	UGDE1600A5ARB KC643M	P36
4124364	UGDE1600A5ARC KC643M	P36
4124365	UGDE1600A5ARD KC643M	P36
4124366	UGDE1600A5ARE KC643M	P36
4124367	UGDE1600A5BRA KC643M	P37
4124368	UGDE1600A5BRB KC643M	P37
4124369	UGDE1600A5BRC KC643M	P37
4124370	UGDE1600A5BRD KC643M	P37
4124371	UGDE1600A5BRE KC643M	P37
4124372	UGDE2000A5ARA KC643M	P36
4124373	UGDE2000A5ARB KC643M	P36
4124374	UGDE2000A5ARC KC643M	P36
4124375	UGDE2000A5ARD KC643M	P36
4124376	UGDE2000A5ARE KC643M	P36
4124377	UGDE2000A5BRA KC643M	P37
4124378	UGDE2000A5BRB KC643M	P37
4124379	UGDE2000A5BRC KC643M	P37
4124380	UGDE2000A5BRD KC643M	P37
4124381	UGDE2000A5BRE KC643M	P37
4124382	UGDE2500A5ARA KC643M	P36
4124383	UGDE2500A5ARB KC643M	P36
4124384	UGDE2500A5ARC KC643M	P36
4124385	UGDE2500A5ARD KC643M	P36
4124386	UGDE2500A5ARE KC643M	P36
4124387	UGDE2500A5BRA KC643M	P37
4124388	UGDE2500A5BRB KC643M	P37
4124389	UGDE2500A5BRC KC643M	P37
4124390	UGDE2500A5BRD KC643M	P37
4124391	UGDE2500A5BRE KC643M	P37
4124962	B051A02000CPG KC7325	G18
4125849	A4G0505M05U04GMN KCP10	C96
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4126343	KSHR032D03M16HN06	S8
4126344	KSHR032D04M16HN06	S8
4126348	KSHR025D03B20HN06	S8
4126349	KSHR032D03B25HN06	S8
4126350	KSHR032D04B25HN06	S8
4126351	KSHR025D02A20HN06L120	S9
4126352	KSHR025D03A20HN06L120	S9
4126383	KSHR032D03A25HN06L130	S9
4126384	KSHR032D04A25HN06L130	S9
4126386	KSHR025D03A25HN06L200	S9
4126387	KSHR040A04RS45HN06	S10
4126388	KSHR050A04RS45HN06	S10
4126389	KSHR050A06RS45HN06	S10
4126390	KSHR063A08RS45HN06	S10
4126391	KSHR080A05RS45HN06	S10
4126392	KSHR080A08RS45HN06	S10
4126403	KSHR080A10RS45HN06	S10
4126404	KSHR100B06RS45HN06	S10
4126405	KSHR100B09RS45HN06	S10
4126406	KSHR100B12RS45HN06	S10
4126407	KSHR125B08RS45HN06	S10
4126408	KSHR125B12RS45HN06	S10
4129398	RCGX120700E KYS25	B333
4129399	RCGX120700T01020 KYS25	B333
4129400	RPGX090700E KYS25	B334
4129402	RPGX120700E KYS25	B334
4129443	KTIP080R1SS10M	H31
4129444	KTIP085R1SS10M	H31
4129445	KTIP090R1SS10M	H31
4129446	KTIP095R1SS10M	H31
4129447	KTIP100R1SS12M	H31
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4129449	KTIP110R1SS12M	H31
4129450	KTIP115R1SS12M	H31
4129451	KTIP120R1SS14M	H31
4129452	KTIP125R1SS14M	H31
4129453	KTIP130R1SS14M	H31
4129454	KTIP135R1SS14M	H31
4129455	KTIP140R1SS16M	H31
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4129458	KTIP160R1SS18M	H31
4129459	KTIP170R1SS18M	H31
4129460	KTIP180R1SS20M	H31
4129461	KTIP190R1SS20M	H31
4129462	KTIP200R1SS25M	H31
4129463	KTIP210R1SS25M	H31
4129464	KTIP220R1SS25M	H31
4129465	KTIP230R1SS25M	H31
4129466	KTIP240R1SS25M	H31
4129467	KTIP250R1SS32M	H31
4129468	KTIP260R1SS32M	H31
4129469	KTIP270R1SS32M	H31
4129470	KTIP080R1SCF12M	H32
4129471	KTIP085R1SCF12M	H32
4129472	KTIP090R1SCF12M	H32
4129483	KTIP095R1SCF12M	H32
4129484	KTIP100R1SCF16M	H32
4129485	KTIP105R1SCF16M	H32
4129486	KTIP110R1SCF16M	H32
4129487	KTIP115R1SCF16M	H32
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4129494	KTIP150R1SCF20M	H32
4129495	KTIP160R1SCF20M	H32
4129496	KTIP170R1SCF20M	H32
4129497	KTIP180R1SCF25M	H32
4129498	KTIP190R1SCF25M	H32
4129499	KTIP200R1SCF25M	H32
4129500	KTIP210R1SCF25M	H32
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4129502	KTIP230R1SCF25M	H32
4129503	KTIP240R1SCF25M	H32
4129504	KTIP250R1SCF25M	H32
4129505	KTIP260R1SCF25M	H32
4129506	KTIP270R1SCF25M	H32
4129542	CNGN120416T01020 KYS25	B332
4129546	SNGN120416T01020 KYS25	B335
4129549	SNGN190616E KYS25	B335
4129552	TNGN220412T01020 KYS25	B336
4129553	TNGN220416T01020 KYS25	B336
4129554	CNGA120408E KYS25	B332
4129555	CNGA120408T01020 KYS25	B332
4129557	CNGA120412T01020 KYS25	B332
4129562	SNGA120412T01020 KYS25	B335
4129563	RCGX060400E KYS25	B333
4129567	CNGN120712T01020 KYS25	B332
4129568	CNGX120708T01020 KYS25	B332
4129569	CNGX120712T01020 KYS25	B332
4129570	DNGX150708T01020 KYS25	B333
4129571	DNGX150712T01020 KYS25	B333
4129576	RNGN120700T01025 KYS25	B334
4129577	RCGX120700T01025 KYS25	B333
4129656	MEGA90D125B06LN22	S122
4129657	MEGA90D160C07LN22	S122
4129658	MEGA90D200C07LN22	S122
4129659	MEGA90D200C09LN22	S122
4129660	MEGA90D250C09LN22	S122
4129661	MEGA90D250C11LN22	S122
4129662	MEGA90D315C10LN22	S122
4129664	MEGA90D315C13LN22	S122
4130392	RCGX090700E KYS25	B333
4130423	RCGX090700T01020 KYS25	B333
4132602	1.18025R110	E15
4132633	1.78025L100	E18
4132634	1.78025R100	E18
4132877	B977A06150 KC7315	G139
4133732	RNGN120700T01025 KYS30	B334
4135418	LNPU221012PNSRHD KCPK30	S121, S123
4135419	LNPU221012PNSRHD KCK15	S121, S123
4135420	LNPU221012PNSRHD KC725M	S121, S123
4135435	HNPJ130720ANSNGD KC520M	S26
4135438	HNPJ130735ANSNHD KC520M	S27
4135574	TM711M030X050R2DHA KCU33	M85
4135575	TM711M040X070R2DHA KCU33	M85

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
4135576	TM711M050X080R2DHA KCU33	M85
4135577	TM711M060X100R2DHA KCU33	M85
4135578	TM711M080X125R2DHA KCU33	M85
4135579	TM711M100X150R2DHA KCU33	M85
4135580	TM711M120X175R2DHA KCU33	M85
4135581	TM711M140X200R2DHA KCU33	M85
4135582	TM711M160X200R2DHA KCU33	M85
4135663	TM711M180X250R2DHA KCU33	M85
4135664	TM711M200X250R2DHA KCU33	M85
4135665	TM711MF040X050R2DHA KCU33	M85
4135666	TM711MF050X050R2DHA KCU33	M85
4135667	TM711MF060X075R2DHA KCU33	M85
4135668	TM711MF080X075R2DHA KCU33	M85
4135669	TM711MF080X100R2DHA KCU33	M85
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4135673	TM711MF140X150R2DHA KCU33	M85
4135674	TM711MF160X150R2DHA KCU33	M85
4135675	TM711MF180X150R2DHA KCU33	M85
4135676	TM711MF200X150R2DHA KCU33	M85
4135763	TM721M060X100R2DHA KCU32	M87
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4135765	TM721M100X150R2DHA KCU32	M87
4135766	TM721M120X175R2DHA KCU32	M87
4135767	TM721M140X200R2DHA KCU32	M87
4135768	TM721M160X200R2DHA KCU32	M87
4135770	TM721MF080X100R2DHA KCU32	M87
4135774	TM721MF120X125R2DHA KCU32	M87
4135776	TM721MF140X150R2DHA KCU32	M87
4135778	TM721NC2500-20R2DHA KCU32	M86
4135779	TM721NC3125-18R2DHA KCU32	M86
4135780	TM721NC3750-16R2DHA KCU32	M86
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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4161099	T604M040X070R6H-D1 KSH26	M39
4161100	T604M050X080R6H-D1 KSH26	M39
4161101	T604M060X100R6H-D1 KSH26	M39
4161102	T604M080X125R6H-D1 KSH26	M39
4161343	T604M100X150R6H-D1 KSH26	M39
4161344	T604M120X175R6H-D6 KSH26	M39
4161345	T604M140X200R6H-D6 KSH26	M39
4161346	T604M160X200R6H-D6 KSH26	M39
4161347	T604M180X250R6H-D6 KSH26	M39
4161348	T604M200X250R6H-D6 KSH26	M39
4161349	T604MF080X100R6H-D4 KSH26	M39
4161350	T604MF100X100R6H-D4 KSH26	M39
4161351	T604MF100X125R6H-D4 KSH26	M39
4161352	T604MF120X125R6H-D4 KSH26	M39
4161353	T604MF120X150R6H-D4 KSH26	M39
4161354	T604MF140X150R6H-D4 KSH26	M39
4161355	T604MF160X150R6H-D4 KSH26	M39
4164868	50A04RS90RP16	V78
4164987	RIQ09E1300 KC6005	K55
4165042	NGD3M350LK KCU25	C149
4167881	CV40FBHM1691	K130
4167882	CV40FBHMKIT645	K123, K127
4168063	EBM1580160162	K132
4168669	A4G0300M03P04S02025ST KB1630	C101
4168670	A4G0400M04P04S02025ST KB1630	C101
4168753	A4G0300M03P04EST KB1630	C101
4168755	A4G0500M05P08EST KB1630	C101
4168756	A4G0600M06P08EST KB1630	C101
4168757	A4R0300M03P00EST KB1630	B337, C102
4168758	A4R0400M04P00EST KB1630	B337, C102
4168759	A4R0500M05P00EST KB1630	B337, C102
4168760	A4R0600M06P00EST KB1630	B337, C102
4168928	A4G0300M03P04S02025ST KB5625	C101
4168929	A4G0400M04P04S02025ST KB5625	C101
4168930	A4G0500M05P08S02025ST KB5625	C101
4168931	A4G0600M06P08S02025ST KB5625	C101
4168932	NG3M200LS02020ST KB5625	C163
4168945	NG3M200RS02020ST KB5625	C163
4168946	NG3M300RS02020ST KB5625	C163
4168947	NG3M400RS02020ST KB5625	C163
4168948	NG3125RS0820ST KB5625	C163
4169239	B269A03175HP KCPK15	G68
4169240	B269A03264HP KCPK15	G68
4169241	B269A03500HP KCPK15	G68
4169242	B269A03970HP KCPK15	G68
4169243	B269A04000HP KCPK15	G68
4169244	B269A04500HP KCPK15	G68
4169245	B269A04600HP KCPK15	G68
4169246	B269A04763HP KCPK15	G68
4169247	B269A04800HP KCPK15	G68
4169248	B269A05000HP KCPK15	G68
4169249	B269A05100HP KCPK15	G68
4169250	B269A05200HP KCPK15	G68
4169251	B269A05300HP KCPK15	G68
4169252	B269A05410HP KCPK15	G68
4169253	B269A05500HP KCPK15	G68
4169254	B269A05558HP KCPK15	G68
4169255	B269A05600HP KCPK15	G69
4169256	B269A05700HP KCPK15	G69
4169257	B269A05800HP KCPK15	G69
4169258	B269A06000HP KCPK15	G69
4169259	B269A06200HP KCPK15	G69
4169260	B269A06350HP KCPK15	G69
4169261	B269A06500HP KCPK15	G69
4169262	B269A06528HP KCPK15	G69
4169263	B269A06600HP KCPK15	G69
4169264	B269A06746HP KCPK15	G69
4169265	B269A06800HP KCPK15	G69
4169266	B269A06909HP KCPK15	G69
4169267	B269A07000HP KCPK15	G69
4169268	B269A07145HP KCPK15	G69
4169269	B269A07500HP KCPK15	G69
4169270	B269A07541HP KCPK15	G69
4169271	B269A07700HP KCPK15	G69
4169272	B269A07800HP KCPK15	G69
4169273	B269A07938HP KCPK15	G69

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
4169274	B269A08000HP KCPK15	G69
4169275	B269A08100HP KCPK15	G69
4169276	B269A08334HP KCPK15	G69
4169277	B269A08433HP KCPK15	G69
4169278	B269A08700HP KCPK15	G69
4169279	B269A08733HP KCPK15	G69
4169280	B269A09000HP KCPK15	G69
4169281	B269A09100HP KCPK15	G69
4169282	B269A09129HP KCPK15	G69
4169283	B269A09500HP KCPK15	G69
4169284	B269A09525HP KCPK15	G69
4169285	B269A09921HP KCPK15	G69
4169286	B269A10000HP KCPK15	G69
4169287	B269A10200HP KCPK15	G69
4169288	B269A10300HP KCPK15	G69
4169289	B269A10320HP KCPK15	G69
4169290	B269A10500HP KCPK15	G69
4169291	B269A10716HP KCPK15	G69
4169292	B269A10800HP KCPK15	G69
4169293	B269A11000HP KCPK15	G69
4169294	B269A11113HP KCPK15	G69
4169295	B269A11500HP KCPK15	G70
4169296	B269A11800HP KCPK15	G70
4169297	B269A12000HP KCPK15	G70
4169298	B269A12100HP KCPK15	G70
4169299	B269A12304HP KCPK15	G70
4169300	B269A12700HP KCPK15	G70
4169301	B269A13000HP KCPK15	G70
4169302	B269A13100HP KCPK15	G70
4169303	B269A13500HP KCPK15	G70
4169304	B269A14100HP KCPK15	G70
4169305	B269A14288HP KCPK15	G70
4169306	B269A14500HP KCPK15	G70
4169307	B269A14684HP KCPK15	G70
4169308	B269A15000HP KCPK15	G70
4169309	B269A15500HP KCPK15	G70
4169310	B269A15875HP KCPK15	G70
4169311	B269A16000HP KCPK15	G70
4169312	B269A16500HP KCPK15	G70
4169313	B269A17000HP KCPK15	G70
4169314	B269A17463HP KCPK15	G70
4169315	B269A17500HP KCPK15	G70
4169316	B269A18000HP KCPK15	G70
4169317	B269A18500HP KCPK15	G70
4169318	B269A19000HP KCPK15	G70
4169319	B269A19050HP KCPK15	G70
4169320	B269A19500HP KCPK15	G70
4169321	B269A20000HP KCPK15	G70
4169337	NG3M200RS02020ST KB1630	C163
4169338	NG3M300RS02020ST KB1630	C163
4169341	NG3125RS0820ST KB1630	C163
4169343	NG3125LS0820ST KB1630	C163
4169745	A4SCR1212K0214	C114
4169746	A4SCR1616K0217	C114
4169747	A4SCR1212K0314	C114
4169748	A4SCR1616K0317	C114
4169749	A4SCL1212K0214	C114
4169750	A4SCL1616K0217	C114
4169752	A4SCL1616K0317	C114
4170385	CM209R ASSY	B58–60, B66, B105
4170386	CM210R ASSY	B59–60, B105
4170387	CM236R ASSY	B105–106
4170408	KSCMCA90QF KD1420	S134
4170410	KSCMCA90UNBF KD1420	S134
4170411	KSCMCA90QFBF KD1420	S134
4171227	LNUX301940RRF KCP10	E51
4171768	RCGT0803M0MS KCU10	B223
4171769	RCGT1204M0MS KCU10	B223
4171770	RCGT1606M0MS KCU10	B223
4171823	CNMG120402FN KCU10	B49
4171824	CNMG120404FP KCU10	B49
4171825	DNMG110404FF KCU10	B76
4171826	DNMG110404FP KCU10	B77
4171827	DNMG150404FP KCU10	B77
4171828	DNMG150408FP KCU10	B77
4171829	DNMG150412FP KCU10	B77
4171830	DNMG150604FP KCU10	B77
4171831	DNMG150608FP KCU10	B77
4171833	SNMG090304FF KCU10	B97
4171835	SNMG120404FP KCU10	B97
4171836	SNMG120408FP KCU10	B97
4171837	TNMG110304FF KCU10	B124
4171838	TNMG160404FP KCU10	B124
4171839	TNMG160408FP KCU10	B124
4171840	TNMG160412FP KCU10	B124
4171841	TNMG220404FP KCU10	B124
4171842	TNMG220408FP KCU10	B124
4171843	VNMG160404FP KCU10	B145
4171844	VNMG160408FP KCU10	B145
4171845	WNMG060404FF KCU10	B155
4171848	WNMG080404FF KCU10	B155
4171849	WNMG080404FP KCU10	B156
4171851	WNMG080408FP KCU10	B156
4171853	KNUX150405L25 KCU10	E31
4171854	KNUX150410L25 KCU10	E31
4171855	KCUX110302L15 KCU10	E32
4171856	KCUX110305L15 KCU10	E32
4171857	KNUX150405R20 KCU10	E31
4171858	KNUX150410R25 KCU10	E31
4171860	KCUX110305R15 KCU10	E32
4175270	B731A04200HP KCPK15	G120
4175271	B731A05000HP KCPK15	G120
4175272	B731A06800HP KCPK15	G120
4175403	B731A08500HP KCPK15	G120
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4175405	B731A10500HP KCPK15	G120
4175406	B731A12000HP KCPK15	G120
4175407	B731A12500HP KCPK15	G120
4175408	B731A14000HP KCPK15	G120
4175409	B732A04200HP KCPK15	G121
4175410	B732A05000HP KCPK15	G121
4175411	B732A06800HP KCPK15	G121
4175412	B732A08500HP KCPK15	G121
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4175414	B732A10500HP KCPK15	G121
4175415	B732A12000HP KCPK15	G121
4175416	B732A12500HP KCPK15	G121
4175417	B732A14000HP KCPK15	G121
4175418	B731A03734HP KCPK15	G120
4175419	B731A04496HP KCPK15	G120
4175420	B731A05106HP KCPK15	G120
4175421	B731A05410HP KCPK15	G120
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4175431	B731A16670HP KCPK15	G120
4175432	B731A17463HP KCPK15	G120
4175433	B731A19446HP KCPK15	G120
4175434	B732A03734HP KCPK15	G121
4175435	B732A04496HP KCPK15	G121
4175436	B732A05106HP KCPK15	G121
4175437	B732A05410HP KCPK15	G121
4175438	B732A06528HP KCPK15	G121
4175439	B732A06909HP KCPK15	G121
4175440	B732A07938HP KCPK15	G121
4175441	B732A08433HP KCPK15	G121
4175442	B732A09921HP KCPK15	G121
4175443	B732A10716HP KCPK15	G121
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4175446	B732A13495HP KCPK15	G121
4175447	B732A16670HP KCPK15	G121
4175448	B732A17463HP KCPK15	G121
4175834	NGD3125RK KCU10	C149
4175835	NGD3189L KCU10	C157
4175836	NGD3189LK KCU10	C149
4175837	NGD3189R KCU10	C157
4175838	NGD3189RK KCU10	C149
4175839	NGD3M200RK KCU10	C149
4175840	NGP3088L KCU10	C152
4175841	NGP3088R KCU10	C152
4175843	NG2031L KCU10	C155
4175844	NG2031LK KCU10	C147
4175845	NG2031R KCU10	C154
4175846	NG2031RK KCU10	C146
4175847	NG2041R KCU10	C154
4175848	NG2047L KCU10	C155
4175849	NG2047LK KCU10	C147
4175850	NG2047R KCU10	C154
4175851	NG2047RK KCU10	C146
4175852	NG2062L KCU10	C155
4175853	NG2062LK KCU10	C147
4175854	NG2062R KCU10	C154
4175855	NG2062RK KCU10	C146
4175856	NG2094L KCU10	C155
4175857	NG2094LK KCU10	C147
4175858	NG2094R KCU10	C154
4175859	NG2094RK KCU10	C146
4175860	NG2125L KCU10	C155
4175861	NG2125LK KCU10	C148
4175862	NG2125R KCU10	C154
4175863	NG2125RK KCU10	C146
4175864	NG2M080LK KCU10	C147
4175865	NG2M080RK KCU10	C146
4175866	NG2M100LK KCU10	C147
4175867	NG2M100RK KCU10	C146
4175868	NG2M120LK KCU10	C147
4175869	NG2M120RK KCU10	C146
4175870	NG2M140LK KCU10	C147
4175871	NG2M140RK KCU10	C146
4175873	NG2M170RK KCU10	C146
4175875	NG2M195RK KCU10	C146
4175876	NG2M200LK KCU10	C147
4175877	NG2M200RK KCU10	C146
4175878	NG2M225LK KCU10	C147
4175879	NG2M225RK KCU10	C146
4175880	NG2M275RK KCU10	C146
4175881	NG2M300LK KCU10	C148
4175882	NG2M300RK KCU10	C146
4175883	NGP3125R KCU10	C152
4175884	NGP3156R KCU10	C152
4175886	NJ3014R12 KCU10	D17
4175888	NJF3005R32 KCU10	D17
4175893	NGP2031L KCU10	C152
4175894	NGP2031R KCU10	C152
4175895	NGP2062L KCU10	C152
4175896	NGP2062R KCU10	C152
4175897	NGP2125L KCU10	C152
4175898	NGP2125R KCU10	C152
4175899	NP2002RK KCU10	C151
4175901	NR2031L KCU10	C158
4175902	NR2031R KCU10	C158
4175903	NR2062L KCU10	C158
4175904	NR2062R KCU10	C158
4175905	NR2M050L KCU10	C158
4175906	NR2M050R KCU10	C158
4175907	NR2M075R KCU10	C158
4175908	NR2M100R KCU10	C158
4175909	NT2L KCU10	D19
4175910	NT2LK KCU10	D24
4175911	NT2R KCU10	D19
4175912	NT2RK KCU10	D24
4175928	NJK3008R20 KCU10	D18
4175932	NJP3010R16 KCU10	D18
4175933	NTF2L KCU10	D23
4175934	NTF2R KCU10	D23
4175935	NTK2L KCU10	D23
4175936	NTK2R KCU10	D23
4175937	NTP2L KCU10	D24
4175938	NTP2R KCU10	D24
4175944	NJP3014R12 KCU10	D18
4175946	NP3002RK KCU10	C151
4175947	NPD3012RK KCU10	C151
4175948	NR3031L KCU10	C158
4175949	NR3031LK KCU10	C150
4175950	NR3031R KCU10	C158
4175951	NR3031RK KCU10	C150
4175952	NR3047L KCU10	C158
4175953	NR3047LK KCU10	C150
4175954	NR3047R KCU10	C158
4175955	NR3047RK KCU10	C150
4175956	NR3062L KCU10	C158
4175957	NR3062LK KCU10	C150
4175958	NR3062R KCU10	C158
4175959	NR3062RK KCU10	C150
4175961	NR3078RK KCU10	C150
4175963	NR3094R KCU10	C158
4175964	NR3M150L KCU10	C158
4175965	NRD3031L KCU10	C159
4175966	NRD3031R KCU10	C159
4175967	NRD3062L KCU10	C159
4175968	NRD3062R KCU10	C159
4175969	NRP3031L KCU10	C153
4175970	NRP3031R KCU10	C153
4175971	NRP3047L KCU10	C153
4175972	NRP3047R KCU10	C153
4175975	NRP3062R KCU10	C153
4175976	NRP3094L KCU10	C153
4175977	NRP3094R KCU10	C153
4175978	NT3L KCU10	D19
4175979	NT3LCK KCU10	D21
4175980	NT3LK KCU10	D24
4175981	NT3R KCU10	D19
4175982	NT3RCK KCU10	D21
4175983	NT3RK KCU10	D24
4175984	NTF3L KCU10	D23
4175985	NTF3R KCU10	D23
4175986	NTK3L KCU10	D23
4175987	NTK3R KCU10	D23
4175988	NTP3L KCU10	D24
4175989	NTP3R KCU10	D24
4176009	NG4125L KCU10	C155
4176010	NG4125LK KCU10	C148
4176011	NG4125R KCU10	C154
4176012	NG4125RK KCU10	C147
4176015	NA3L4 KCU10	D12
4176018	NA3L8 KCU10	D12
4176019	NA3R10 KCU10	D12
4176020	NA3R12 KCU10	D12
4176021	NA3R16 KCU10	D12
4176023	NA3R5 KCU10	D12
4176024	NA3R6 KCU10	D12
4176025	NA3R8 KCU10	D12
4176026	NAS3L10 KCU10	D13
4176027	NAS3L5 KCU10	D13
4176028	NAS3L6 KCU10	D13
4176029	NAS3L8 KCU10	D13
4176030	NAS3R10 KCU10	D13
4176031	NAS3R5 KCU10	D13
4176032	NAS3R6 KCU10	D13
4176033	NAS3R8 KCU10	D13
4176034	NG3047L KCU10	C155
4176035	NG3047LK KCU10	C148
4176036	NG3047R KCU10	C154
4176037	NG3047RK KCU10	C146
4176038	NG3062L KCU10	C155
4176039	NG3062LK KCU10	C148
4176040	NG3062R KCU10	C154
4176041	NG3062RK KCU10	C146
4176042	NG3072L KCU10	C155
4176043	NG3072LK KCU10	C148
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4176046	NG3078L KCU10	C155
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4176050	NG3088L KCU10	C155
4176051	NG3088R KCU10	C154
4176052	NG3094L KCU10	C155
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4176056	NG3097L KCU10	C155
4176057	NG3097R KCU10	C154
4176058	NG3105L KCU10	C155
4176059	NG3105R KCU10	C154
4176060	NG3125L KCU10	C155
4176061	NG3125LK KCU10	C148
4176062	NG3125R KCU10	C154
4176063	NG3125RK KCU10	C147
4176064	NG3142L KCU10	C155
4176065	NG3156LK KCU10	C148
4176066	NG3156R KCU10	C154
4176067	NG3156RK KCU10	C147
4176068	NG3189L KCU10	C155
4176069	NG3189LK KCU10	C148
4176070	NG3189R KCU10	C154
4176071	NG3189RK KCU10	C147
4176072	NG3M120LK KCU10	C148
4176073	NG4189L KCU10	C155
4176074	NG4189LK KCU10	C148
4176075	NG4189R KCU10	C154

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
4176076	NG4189RK KCU10	C147
4176077	NG4250L KCU10	C155
4176078	NG4250LK KCU10	C148
4176079	NG4250R KCU10	C154
4176081	NG4M400LK KCU10	C148
4176083	NG4M500LK KCU10	C148
4176084	NG4M500RK KCU10	C147
4176085	NGD4125LK KCU10	C149
4176086	NGD4125RK KCU10	C149
4176087	NGD4189LK KCU10	C149
4176088	NGD4189RK KCU10	C149
4176089	NGD4250L KCU10	C157
4176090	NGD4250LK KCU10	C149
4176091	NGD4250R KCU10	C157
4176092	NGD4250RK KCU10	C149
4176093	NG3M120RK KCU10	C146
4176094	NG3M225LK KCU10	C148
4176095	NG3M225RK KCU10	C146
4176096	NG3M275LK KCU10	C148
4176097	NG3M275RK KCU10	C147
4176098	NG3M300LK KCU10	C148
4176099	NG3M300RK KCU10	C147
4176100	NG3M400LK KCU10	C148
4176101	NG3M400RK KCU10	C147
4176102	NG3M425LK KCU10	C148
4176104	NGP4189R KCU10	C152
4176105	NGP4250L KCU10	C152
4176107	NR4062LK KCU10	C150
4176108	NR4062RK KCU10	C150
4176109	NR4094LK KCU10	C150
4176110	NR4094RK KCU10	C150
4176112	NR4125LK KCU10	C150
4176113	NR4125R KCU10	C158
4176114	NR4125RK KCU10	C150
4176115	NRD4062L KCU10	C159
4176116	NRD4062R KCU10	C159
4176117	NRD4094L KCU10	C159
4176118	NRD4094R KCU10	C159
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4176125	NGD3062RK KCU10	C149
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4176128	NGD3125LK KCU10	C149
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4176137	NTP4R KCU10	D24
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4176193	NTC3L12E KCU10	D22
4176194	NTC3L16E KCU10	D22
4176195	NTC3MR150E KCU10	D21
4176198	NTC3R11E KCU10	D22
4176204	NTC3R20E KCU10	D22
4176206	NTC3R32E KCU10	D22
4176207	NTC3R8E KCU10	D22
4176208	NTC3R9E KCU10	D22
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4177163	42A04RS90RP12	V72
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
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5130229	B707A17900FBL KCMS15	G115
5131942	B269A03600HP KCPK15	G68
5132051	B978A03600 KC7315	G146
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5136423	A4R0805M08U00GUP KCU25	C92
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5152600	RNGJ10T3M0SGDJ KC725M	V51
5152606	RNGJ1605M0ELDJ KC522M	V61
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5152622	KDR32Z04M16RN10	V46
5152623	KDR35Z05M16RN10	V46
5152624	KDR40Z05M16RN10	V46
5152626	KDR25Z03B25RN10	V47
5152629	KDR25Z03A25RN10L150	V48
5152680	KDR25Z03A25RN10L200	V48

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5152681	KDR25Z03A32RN10L250	V48
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5152684	KDR32Z03A32RN10L250	V48
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5152686	KDR40Z06S16RN10	V49
5152687	KDR50Z05S22RN10	V49
5152688	KDR50Z06S22RN10	V49
5152689	KDR52Z06S22RN10	V49
5152690	KDR63Z07S22RN10	V49
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5159761	RIQ06R0500FT KT6315	K55
5161120	NA3L16 KCU10	D12
5161475	B978F14500 KC7315	G149
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5169175	EDPT070308PDSRGE KCPK30	T25
5172862	RPPT1204M0SGDX KC725M	V74
5175059	B977F07100 KC7315	G144
5178669	B978F16000 KC7315	G149
5182481	KTIP1490HPM KCP15	H27
5182869	SNMG120412RN KCPK05	B101
5182893	SNMG150612RN KCPK05	B101
5189859	B269A08600HP KCPK15	G69
5190190	12A02R018A12ED07	T24
5190191	16A03R020A16ED07	T24
5190192	20A05R020A20ED07	T24
5190197	12A02R020M08ED07	T24
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5202233	SALS080	S126
5202234	SALS100	S126
5202235	SALS125	S126
5202236	SALS160	S126
5202514	SWSM515	S126
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5274665	RNPJ10T3M0SHD KCK15	V51
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5274693	RNPJ1204M0SHD KCPK30	V58
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5274721	RNPJ1605M0SGD KC522M	V61
5274722	RNPJ1605M0SHD KCPK30	V61
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5330130	WNGA080408S01015FWMT KBH20	B323
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5330134	CCGW09T304S01225MT KBH20	B308
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5330136	CCGW09T304S01015FWMT KBH20	B308
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5330147	DCGW11T308S01225MT KBH20	B312
5330148	DCGW11T308S01015MT KBH20	B312
5330149	DCGW11T308S01015FWMT KBH20	B312
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5330151	TPGW110204S01015MT KBH20	B321
5330152	TPGW110208S01015MT KBH20	B321
5330153	TCGW110202S01015MT KBH20	B319
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5330155	TCGW110208S01015MT KBH20	B319
5330156	TCGW090202S01015MT KBH20	B319
5330157	TCGW090204S01015 MT KBH20	B319
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5330160	TPGW16T308S01225MT KBH20	B321
5330161	TPGW16T308S01015MT KBH20	B321
5330162	VBGW110304S01225MT KBH20	B322
5330163	VBGW110304S01015MT KBH20	B322

Dizin

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5330164	VBGW160408S01015MT KBH20	B322
5330165	VBGW160412S01015MT KBH20	B322
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5330167	VCGW160404S01225MT KBH20	B322
5330168	VCGW160404S01015MT KBH20	B322
5330169	VCGW160408S01225MT KBH20	B322
5330180	VCGW160408S01015MT KBH20	B322
5330695	CNGA120404S01225MT KBH20	B310
5330696	CNGA120404S01015MT KBH20	B310
5330697	CNGA120404S01735MT KBH20	B310
5330698	CNGA120404S01015FWMT KBH20	B310
5330699	CNGA120408S01225MT KBH20	B310
5330830	CNGA120408S01015MT KBH20	B310
5330831	CNGA120408S01735MT KBH20	B310
5330832	CNGA120408S01015FWMT KBH20	B310
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5358401	UDDE2500E5AQK KCSM15	P32
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5358403	UDDE2500E5AQN KCSM15	P32
5358886	KSOM32Z03M160F06X	S46
5358887	KSOM40Z04M160F06X	S46
5358888	KSOM32Z03A320F06X	S47
5358889	KSOM40Z040F06X	S48
5358930	KSOM50Z060F06X	S48
5358931	KSOM63Z070F06X	S48
5358932	KSOM80Z090F06X	S48
5362754	CCMT09T312MP KCU10	B177
5366566	B269A17100HP KCPK15	G70
5377581	B269A04700HP KCPK15	G68
5377582	B269A06100HP KCPK15	G69
5378294	B269A11200HP KCPK15	G69
5387230	CNMG120412FM KCP10B	B50
5387231	CNMG120412FM KCP25B	B50
5387540	DNMG150612CT KCP25B	B76
5387541	DNMG150612MN KCP25B	B78
5387542	DNMG150612RN KCP25B	B81
5387543	DNMG150612RP KCP25B	B81
5387544	DNMG150616RN KCP25B	B81
5387545	DNMG150616RP KCP25B	B81
5387547	DPMT11T308LF KCP25B	B215
5387550	SCMT09T304LF KCP25B	B230
5387551	SCMT09T308FP KCP25B	B230
5387553	SCMT09T308MF KCP25B	B231
5387554	SCMT09T308MP KCP25B	B231
5387555	SCMT09T312MF KCP25B	B231
5387556	SCMT120408FP KCP25B	B230
5387557	SCMT120408MF KCP25B	B231
5387558	SCMT120412LF KCP25B	B230
5387559	SCMT120412MF KCP25B	B231
5387563	SNMG120412RP KCP25B	B101
5387567	SNMG150612RP KCP25B	B101
5387571	SPMT09T308LF KCP25B	B238
5387575	TNMG160412RP KCP25B	B128
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5387581	TPMT16T308LF KCP25B	B255
5387584	VBMT160404FP KCP25B	B265
5387587	VBMT160408MP KCP25B	B265
5387588	VBMT160412FP KCP25B	B265
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5387611	WNMG080408MN KCP25B	B157
5387612	WNMG080408MW KCP25B	B158
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5387663	CNMG120408MW KCP25B	B52
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5387681	CNMG120416RN KCP25B	B53
5387688	CNMG190612MN KCP25B	B50
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5387691	CNMG190616RN KCP25B	B53
5387692	CNMM120412RM KCP25B	B55
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5387697	CNMM190616RM KCP25B	B55
5387698	CNMM190624RH KCP25B	B55
5387699	CNMM190624RM KCP25B	B55
5387727	DCMT11T308LF KCP25B	B207
5387729	DCMT11T312MF KCP25B	B208
5387732	DNMG150408MN KCP25B	B78
5387733	DNMG150408RN KCP25B	B81
5387737	DNMG150608MN KCP25B	B78
5387753	CNMG120408FN KCK15B	B49

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5387754	VNMG160408FN KCK15B	B145
5387755	CNMG120408MW KCK15B	B52
5387801	CNMG120412UN KCK15B	B54
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5387804	TNMG160408UN KCK15B	B128
5387805	SNMG120412UN KCK15B	B102
5387806	RNMG120400UN KCK15B	B94
5387807	TNMG160412UN KCK15B	B128
5387808	WNMG080408UN KCK15B	B160
5387809	WNMG080416UN KCK15B	B160
5387810	DNMG110408UN KCK15B	B82
5387811	CNMG160616UN KCK15B	B54
5387812	DNMG150616UN KCK15B	B82
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5387858	SCMT09T308MF KCP10B	B231
5387864	SCMT120412LF KCP10B	B230
5387874	SNMG120412RP KCP10B	B101
5387882	SNMG150612RP KCP10B	B101
5387884	SPMT09T308LF KCP10B	B238
5387896	TNMG160412RP KCP10B	B128
5387901	TNMG220432RP KCP10B	B128
5387903	TPMT110208LF KCP10B	B255
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5387910	VBMT160412FP KCP10B	B265
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5388064	CNMG120416RN KCP10B	B53
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5388084	CNMG190616RN KCP10B	B53
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5388111	DNMG150408MN KCP10B	B78
5388112	DNMG150408RN KCP10B	B81
5388116	DNMG150608FN KCP10B	B77
5388117	DNMG150608MN KCP10B	B78
5393242	CNMG120408RN KCK15B	B53
5393244	CNMG120408RN KCP40B	B53
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5396015	KF2X66Z06S22WO09	V40
5397385	KSEM1270HPGM KCPM45	H45
5397386	KSEM1293HPGM KCPM45	H45
5397387	KSEM1400HPGM KCPM45	H45
5397388	KSEM1429HPGM KCPM45	H45
5397389	KSEM1609HPGM KCPM45	H45
5397470	KSEM1620HPGM KCPM45	H45
5397471	KSEM1667HPGM KCPM45	H45
5397473	KSEM1746HPGM KCPM45	H45
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5420839	SNXF1204ZNSNGP KCK15	S104
5420840	SNXF120412SNHE KCK15	S104
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5420842	XNXF1204ZNENLDW KCK15	S106
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
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5513478	CNMG160612RP KCPK05	B53
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5515175	KSEM3600HPCCLM KC7410	H49, H87
5515176	KSEM3700HPCCLM KC7410	H49, H87
5515177	KSEM3800HPCCLM KC7410	H49, H87
5515178	KSEM3900HPCCLM KC7410	H49, H87

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5515179	KSEM4000HPCCLM KC7410	H49, H87
5515220	KSEMP3500HPGM KC7315	H87
5515221	KSEMP3600HPGM KC7315	H87
5515222	KSEMP3700HPGM KC7315	H87
5515223	KSEMP3800HPGM KC7315	H87
5515224	KSEMP3900HPGM KC7315	H87
5515225	KSEMP4000HPGM KC7315	H87
5515226	KSEM2900HPGM KCPM45	H46
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5515749	LNGU15T612SRGE KCK15	T19
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5517764	RPET1605M0SGEJ KCSM30	V79
5517767	W0EJ090512SRGD KCSM30	V41
5517773	RNGJ1204M0ELDJ KCSM30	V57
5517778	RNGJ10T3M0SGDJ KCSM30	V51
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5519923	SDET1204PDSRGB KCSM30	T105, T112, U51
5519967	SDCT120432ENLD2 KCSM30	T104, T111, U51
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5520493	EDPT140416PDERHD KCSM30	T53, T62
5520494	EDPT140440PDERHD KCSM30	T53, T62
5520684	EDPT10T316PDERHD KCSM30	T36
5520687	SPCT10T316ENLD2 KCSM30	T100, U36
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5520738	T353M060X100R6HX-D1 KCK17	M59
5520739	T353M080X125R6HX-D1 KCK17	M59
5520790	T353M100X150R6HX-D1 KCK17	M59
5520791	T353M120X175R6HX-D6 KCK17	M59
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5520793	T351M060X100R6HX-D1 KCK17	M58
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5534253	SPGX060304RHP KCU25	J89
5534254	SPGX060304MD KCU25	J89
5534255	SPGX070304FP KCU25	J90
5534256	SPGX070304RHP KCU25	J89
5534257	SPGX070304MD KCU25	J89
5534258	SPPX09T308FP KCU25	J90
5534259	SPPX09T308RHP KCU25	J89
5534260	SPPX09T308MD KCU25	J89
5534261	SPPX120408FP KCU25	J90
5534262	SPPX120408RHP KCU25	J89
5534263	SPPX120408MD KCU25	J89
5534264	SPPX15T508FP KCU25	J90
5534265	SPPX15T508RHP KCU25	J89
5534266	SPPX15T508MD KCU25	J89
5534267	SPGX060304FP KCPK10	J90
5534268	SPGX070304FP KCPK10	J90
5534269	SPPX09T308FP KCPK10	J90
5534270	SPPX120408FP KCPK10	J90
5534271	SPPX15T508FP KCPK10	J90
5534274	ER0312M03U00GUP KCU25	C20
5534276	ER0412M04U00GUP KCU25	C20
5534278	ER0512M05U00GUP KCU25	C20
5534290	ER0612M06U00GUP KCU25	C20
5534292	ER0812M08U00GUP KCU25	C20
5534293	ER0312M03U00GUN KCU25	C23
5534294	ER0412M04U00GUN KCU25	C23
5534295	ER0512M05U00GUN KCU25	C23
5534296	ER0612M06U00GUN KCU25	C23
5534297	ER0812M08U00GUN KCU25	C23
5534828	CNMG120404FF KCP10B	B48
5535020	CNMG120408CT KCP25B	B48
5535021	CNMG120408CT KCP10B	B48
5535022	CNMG120408FF KCP10B	B48
5535025	DNMG110408FT KCP10B	B76
5535026	DNMG110408FF KCP10B	B76
5535027	DNMG150408CT KCP10B	B76
5535028	DNMG150408FW KCP10B	B78
5535029	DNMG150604FF KCP10B	B76
5535040	DNMG150604FW KCP10B	B78
5535041	DNMG150608CT KCP10B	B76
5535042	DNMG150608FF KCP10B	B76
5535043	DNMG150608FW KCK15B	B78
5535044	DNMG150608FW KCP10B	B78
5535045	DNMP150604K KCP25B	B83
5535046	DNMP150608K KCP25B	B83
5537375	CCMT060204FP KCP10B	B176
5537376	CCMT060204FP KCP25B	B176
5537378	CCMT060208FP KCP25B	B176
5537379	CCMT09T302FP KCP25B	B176
5537420	CCMT09T304FP KCP10B	B176
5537421	CCMT09T304FP KCP25B	B176
5537422	CCMT09T308FP KCP10B	B176
5537423	CCMT09T308FP KCP25B	B176
5537425	CCMT120404FP KCP10B	B176
5537426	CCMT120404FP KCP25B	B176
5537427	CCMT120408FP KCP25B	B176
5537429	CPMT060204FP KCP25B	B189
5537430	CPMT060204UF KCP25B	B191
5537431	CPMT060204UF KCP10B	B191
5537432	CPMT09T304FP KCP25B	B189
5537433	CPMT09T304UF KCP25B	B191
5537435	CPMT09T308FP KCP25B	B189
5537436	DCMT070202FP KCP25B	B207
5537437	DCMT070208FP KCP25B	B207
5537438	DCMT11T302FP KCP25B	B207
5537439	DCMT11T302FP KCP10B	B207

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5537442	DCMT11T304FP KCP10B	B207
5537443	DCMT11T304FP KCP25B	B207
5537444	DCMT11T304UF KCP10B	B208
5538857	DCMT11T304UF KCP25B	B208
5538858	DCMT11T308FP KCP10B	B207
5538891	TCMT090204FP KCP25B	B244
5538894	TCMT110304FP KCP10B	B244
5538900	TPMT110304FP KCP10B	B254
5538903	VBMT160408FP KCP10B	B265
5538904	VBMT160408FP KCP25B	B265
5542022	SDET120412PDENGDZ KCPM40	V141
5542023	SDET120412PDSNGDZ KCPM40	V141
5542024	SDPT120412PDENHPZ KCPM40	V141
5542025	SDPT120412PDSNHPZ KCPM40	V141
5542028	RNPJ10T3M0SGD KCPM40	V51
5542029	RNPJ10T3M0SHD KCPM40	V51
5542179	CNMA120412 KCK15B	B47
5542190	RNPJ1204M0SGD KCPM40	V58
5542191	RNPJ1204M0SHD KCPM40	V58
5542192	RNPJ1605M0SGD KCPM40	V61
5542193	RNPJ1605M0SHD KCPM40	V61
5542210	CNMA160612 KCK15B	B47
5542242	WOEJ090512SRHD KCPM40	V41
5542243	WOEJ090512SRGD KCPM40	V41
5542246	RPPT1204M0SGP KCPM40	V74
5542247	RPPT1204M0SGDX KCPM40	V74
5542248	RPPT1605M0SHP KCPM40	V80
5542321	RCGT2006M0SHFJ KCPM40	V83
5542324	RCGT2006M0SGFJ KCPM40	V83
5543553	KM4X63KGMEL65C	C63, C133
5543555	KM4X63KGMER65C	C63, C133
5543558	KM4X63KGMSL65C	C62, C133
5543560	KM4X63KGMSR65C	C62, C133
5544143	SS20RBHT24	K120
5544144	SS20FBHS24	K135
5544145	SS25RBHT30	K120
5544146	SS25FBHS31	K135
5544148	ER25RBHT40	K119
5544149	ER25FBHS40	K134
5544190	ER32RBHT50	K119
5544191	ER32FBHS51	K134
5544192	ER40RBHT66	K119
5544193	ER40FBHS67	K134
5544755	DNMG110412FN KCP10B	B77
5545061	EDPT140408PDSRGD2 KCPM40	T54, T63
5545066	EDPT140412PDSRGD KCPM40	T54, T63
5545067	EDCT140408PDERGD KCPM40	T52, T61
5545068	EDCT140404PDERGD KCPM40	T52, T61
5545069	EDPT140412PDERHD KCPM40	T53, T62
5545160	EDPT140408PDERHD KCPM40	T53, T62
5545161	EDPT140408PDSRGE KCPM40	T53, T62
5545162	SDET1204PDSRGB KCPM40	T105, T112, U51
5545163	SDCT1204PDERLD2 KCPM40	T104, T111, U51
5545164	SDET1204PDERGB2 KCPM40	T104, T111, U52
5545167	SPCT10T3PPERLD2 KCPM40	T100, U36
5545168	SPET10T3PPERGB2 KCPM40	T100, U37
5545169	EDPT070308PDSRGE KCPM40	T25
5545214	EDPT10T308PDERHD KCPM40	T36
5545215	EDPT10T304PDERHD KCPM40	T36
5545216	EDPT10T308PDSRGD KCPM40	T36, T44
5545217	EDCT10T308PDERLD KCPM40	T35
5545398	EDPT180516PDERGD KCPM40	T74
5545399	EDPT180508PDERGD KCPM40	T74
5545400	EDPT180512PDERGD KCPM40	T74
5545401	EDPT180512PDSRGD KCPM40	T75
5545402	EDPT180508PDSRGD KCPM40	T75
5545403	EDPT180516PDSRGD KCPM40	T75
5545562	EDPT140408PDERHD2 KCPM40	T53, T62
5546298	VNMG160412MN KCP25B	B145
5547848	LNPU15T608SRGE KC520M	T19
5547849	LNPU15T608SRGE KC522M	T19
5548040	LNPU15T608SRGE KC725M	T19
5548041	LNPU15T608SRGE KCK15	T19
5548042	LNPU15T608SRGE KCPK30	T19
5548378	B967A09300 KC7315	G133
5550701	HNGJ0604ANENLD KCPM40	S6, S12, S15
5550702	HNPJ0604ANSNHD KCPM40	S7, S13, S16
5550703	HNPJ0604ANSNGD KCPM40	S7, S13, S16
5550793	HNGJ0905ANSNGD KCPM40	S18, S23
5550794	HNGJ0905ANSNHD KCPM40	S19, S23
5550795	HNPJ0905ANSNGD KCPM40	S19, S23
5550796	HNPJ0905ANSNHD KCPM40	S19, S24
5550797	HNPJ090543ANSNHD KCPM40	S19, S24
5550815	HNPJ1307ANSNHD KCPM40	S27
5550816	HNPJ130720ANSNHD KCPM40	S27
5550817	HNGJ1307ANENGD KCPM40	S26
5550819	0FPT07L6AFENGB KCPM40	S55
5550901	0FPT06L5AFENGB KCPM40	S51
5551030	T340NC#6-32R3BX KCK17	M54
5551031	T340NC#8-32R3BX KCK17	M54
5551032	T340NC#10-24R3BX KCK17	M54
5551033	T340NF#10-32R3BX KCK17	M54
5551034	T340NC02500-20R3BX KCK17	M54
5551035	T340NC03125-18R3BX KCK17	M54
5551036	T340NC03750-16R3BX KCK17	M54
5551037	T340NF03750-24R3BX KCK17	M54
5551038	T340NC05000-13R3BX KCK17	M54
5551039	T340NF05000-20R3BX KCK17	M54
5551040	T340NF05625-18R3BX KCK17	M54
5551041	T340M040X070R6HX KCK17	M55
5551042	T340M050X080R6HX KCK17	M55
5551043	T340M060X100R6HX KCK17	M55
5551044	T340M080X125R6HX KCK17	M55
5551045	T340MF100X100R6HX KCK17	M55
5551046	T340M100X150R6HX KCK17	M55
5551047	T340MF120X150R6HX KCK17	M55
5551048	T340M120X175R6HX KCK17	M55
5551049	T340MF140X150R6HX KCK17	M55
5551050	T340M140X200R6HX KCK17	M55
5551051	T340M160X200R6HX KCK17	M55
5551052	T340M200X250R6HX KCK17	M55
5551053	T351NC#6-32R3BX KCK17	M56
5551054	T351NC#8-32R3BX KCK17	M56
5551055	T351NF#10-32R3BX KCK17	M56
5551056	T351NC02500-20R3BX KCK17	M56
5551057	T351NC03125-18R3BX KCK17	M56
5551058	T351NC03750-16R3BX KCK17	M56
5551059	T351NC04375-14R3BX KCK17	M56
5551060	T351NC05000-13R3BX KCK17	M56
5551061	T351NC06250-11R3BX KCK17	M56
5551062	T351NC07500-10R3BX KCK17	M56
5551063	T351M040X070R6HX KCK17	M57
5551064	T351M050X080R6HX KCK17	M57
5551065	T351M060X100R6HX KCK17	M57
5551066	T351M080X125R6HX KCK17	M57
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5551069	T351MF120X150R6HX KCK17	M57
5551070	T351M120X175R6HX KCK17	M57
5551071	T351MF140X150R6HX KCK17	M57
5551072	T351M140X200R6HX KCK17	M57
5551073	T351M160X200R6HX KCK17	M57
5551077	T471M060X100R6HX KCN14	M60
5551078	T471M080X125R6HX KCN14	M60
5551079	T471M100X150R6HX KCN14	M60
5551080	T471M120X175R6HX KCN14	M60
5551081	T471M140X200R6HX KCN14	M60
5551082	T491M050X080R6HX KCN14	M72
5551083	T491M060X100R6HX KCN14	M72
5551084	T491M080X125R6HX KCN14	M72
5551085	T491M100X150R6HX KCN14	M72
5551086	T491M120X175R6HX KCN14	M72
5551479	RIQ09EGR06 KD1415	K56
5555606	M4D032Z04M16LN15	T14
5555607	M4D040Z04B32LN15	T15
5555608	M4D032Z04A32LN15L110	T16
5555609	M4D032Z04A32LN15L200	T16
5555716	B224A04100HP KCPK15	G51
5555800	M4D040Z04A32LN15L200	T16
5555801	M4D040Z05S16LN15	T17
5555802	M4D080Z09S27LN15	T17
5555803	M4D100Z11S32LN15	T17
5555804	M4D125Z09S40LN15	T17
5555805	M4D160Z12S40LN15	T17
5555806	M4D160Z16S40LN15	T17
5556965	SDET120464SNGB KCSM30	T105, T112, U51
5566274	RCMT1204M0RP KCP25B	B226
5572826	SDPT1204PDERGB2 KCPM40	T105, T112, U52
5572827	SDPT1204PDSRGB2 KCPM40	T105, T112, U52
5573990	DCMT150408LF KCP10B	B207
5575827	LNGU15T608SRGEM KC520M	T19
5575828	LNGU15T608SRGEM KCK15	T19
5575829	LNGU15T608SRGEM KCPK30	T19
5576320	VNMG160408FF KCP25B	B145
5577076	LNEU1245R08 KCPM40	U19
5577077	LNEU1255R08 KCPM40	U19
5577078	LNEU1245R04 KCPM40	U19
5577079	LNEU1255R04 KCPM40	U19
5577120	LNEU1245R08SGP KCPM40	U20
5577121	LNEU1240R08 4 KCPM40	U19
5577122	LNEU1240R03 4 KCPM40	U19
5577123	LNEQ1260R04 KCPM40	U20
5577124	LNEU1260R04 KCPM40	U19
5580585	WNMG080412MP KCP25B	B157
5585495	B224A05050HP KCPK15	G52
5586046	SNHX1102T KCPM40	U14
5586047	SNHX1103T KCPM40	U14
5586048	SNHX1203T KCPM40	U14
5586060	SNHX11T3PZTNGP KCPM40	U15
5586061	SNHX1102PZTNGP KCPM40	U15
5586062	SNHX1203PZTNGP KCPM40	U15
5586626	LNUX301940RRH KCP10B	E51
5588385	LNGU15T608ERGE KC725M	T18
5588386	LNGU15T608ERGE KCSM30	T18
5588387	LNGU15T608ERGE KCPM40	T18
5588388	LNGU15T608ERGE KC522M	T18
5588513	LNGU15T604ERGE KC725M	T18
5588514	LNGU15T604ERGE KCSM30	T18
5588515	LNGU15T604ERGE KCPM40	T18
5588516	LNGU15T604ERGE KC522M	T18
5588517	LNGU15T612ERGE KC725M	T18
5588518	LNGU15T612ERGE KCSM30	T18
5588519	LNGU15T612ERGE KCPM40	T18
5588550	LNGU15T612ERGE KC522M	T18
5588937	DFT110508MD KC7140	J87
5588973	RIQ09EDR00 KC6005	K56
5589680	LNPU221012PNSRHD KCPM40	S121, S123
5589965	B978F09000 KC7315	G149
5590137	410.091	E17–18
5590777	EDPT180508PDERHD KCPM40	T75
5591123	DCMT11T308FP KCM25B	B207
5591124	DCMT11T304FP KCM25B	B207
5591126	CCMT060208FP KCM25B	B176
5591127	DCMT070208FP KCM25B	B207
5591128	CCMT09T304FP KCM25B	B176
5591129	DCMT11T302FP KCM25B	B207
5591140	CCMT060204FP KCM25B	B176
5591141	CCMT060202FP KCM25B	B176
5591142	CCMT09T308FP KCM25B	B176
5591143	DCMT070204FP KCM25B	B207
5591144	CCMT09T302FP KCM25B	B176
5591146	CCMT120404FP KCM25B	B176
5591149	TCMT110204LF KCM25B	B244
5591151	DCMT070204LF KCM25B	B207
5591152	SCMT120408LF KCM25B	B230
5591154	VBMT110304LF KCM25B	B265
5591155	DPMT11T304LF KCM25B	B215
5591156	TCMT16T304LF KCM25B	B244
5591157	CPMT09T304LF KCM25B	B190
5591158	SCMT120404LF KCM25B	B230
5591159	TCMT16T308LF KCM25B	B244
5591160	TCMT110208LF KCM25B	B244
5591161	TPMT16T304LF KCM25B	B255
5591162	TPMT110204LF KCM25B	B255
5591164	TPMT16T308MF KCM25B	B255
5591166	SCMT120408MF KCM25B	B231
5591167	TCMT16T308MF KCM25B	B245
5591168	SPMT09T308MF KCM25B	B239
5591169	CPMT09T308MF KCM25B	B190
5591170	TCMT16T312MF KCM25B	B245
5591172	CCMT09T304MF KCM25B	B177
5591173	DCMT11T304MF KCM25B	B208
5591174	CCMT060204MF KCM25B	B177
5591175	SCMT09T308MF KCM25B	B231
5591256	CCMT09T312MF KCM25B	B177
5591610	TNMG220404FP KCM25B	B124
5591611	SNMG120408FP KCM25B	B97
5591612	SNMM250724RH KCP40B	B102
5591613	SNMM250924RH KCP40B	B102
5591615	CNMM190616RH KCP40B	B55
5591616	SNMM190624RH KCP40B	B102
5591617	SNMM190624RM KCP40B	B103
5591633	CNMM190624RP KCM25B	B56
5591634	SNMM250924RP KCM25B	B103
5591711	CPMT060208MF KCM25B	B190
5591712	CPMT09T312MF KCM25B	B190
5591713	TCMT110208MF KCM25B	B245
5591714	SNMG120408MN KCP40B	B98
5591716	CNMG120412MN KCP40B	B50
5591718	WNMG080412MN KCP40B	B157
5591720	TNMG220412MN KCP40B	B125
5591721	DNMG150412MN KCP40B	B78
5591727	DNMG150612MN KCP40B	B78
5591773	CNMG120404MN KCP40B	B50
5591774	WNMG080408MP KCM25B	B157
5591775	CNMG160616MP KCM25B	B51
5591776	SCMT09T308MP KCM25B	B231
5591777	CCMT120408MP KCM25B	B177
5591778	VBMT160408MP KCM25B	B265
5591779	CNMG120404MP KCM25B	B51
5591780	CNMG160612MP KCM25B	B51
5591781	VNMG160408MP KCM25B	B146
5591782	DNMG150408MP KCM25B	B79
5591783	CCMT09T308MP KCM25B	B177
5591784	DCMT11T308MP KCM25B	B208
5591785	TNMG160404MP KCM25B	B125
5591786	VBMT160404MP KCM25B	B265
5591787	CNMG190608MP KCM25B	B51
5591788	DNMG150604MP KCM25B	B79
5591789	VNMG160404MP KCM25B	B146
5591790	WNMG080412MP KCM25B	B157
5591791	DNMG110408MP KCM25B	B79
5591792	CCMT09T304MP KCM25B	B177
5591793	CCMT120412MP KCM25B	B177
5591794	SCMT120408MP KCM25B	B231
5591795	DNMG150612MP KCM25B	B79
5591796	TNMG220412MP KCM25B	B125
5591799	CNMG190612MP KCM25B	B51
5591900	DNMG150608MP KCM25B	B79
5591901	CNMG120412MP KCM25B	B51
5591902	DNMG150404MP KCM25B	B79
5591903	DNMG150612RN KCP40B	B81
5591904	TCMT16T304MP KCM25B	B245
5591906	TCMT16T308MP KCM25B	B245
5591907	SNMG120408MP KCM25B	B98
5591908	DNMG150416RN KCP40B	B81
5591910	TNMG220408MP KCM25B	B125
5591911	SNMG250924RN KCP40B	B101
5591912	WNMG060408MP KCM25B	B157
5591913	CNMG160616RN KCP40B	B53
5591914	CCMT060204MP KCM25B	B177
5591916	CPMT09T308MP KCM25B	B190
5591919	CNMG160612RP KCM25B	B53
5591930	DNMG110412MP KCM25B	B79
5591931	CNMG190612RP KCM25B	B53
5591932	DNMG150608RP KCM25B	B81

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5591933	SNMG120412MP KCM25B	B98
5591934	SNMG190612MP KCM25B	B98
5591935	SNMG190612RP KCM25B	B101
5591936	SNMG190616RP KCM25B	B101
5591937	WNMG060404MP KCM25B	B157
5591938	WNMG080412RP KCM25B	B159
5591939	SNMG150608MP KCM25B	B98
5591950	CNMG120404RP KCM25B	B53
5591952	SNMG120416MP KCM25B	B98
5591953	SNMG150616RP KCM25B	B101
5591954	SNMG150612MP KCM25B	B98
5591955	CNMG190616RP KCM25B	B53
5591956	TNMG160412MP KCM25B	B125
5591957	CNMG120416RP KCM25B	B53
5591959	WNMG080408RP KCM25B	B159
5591960	CNMG160616RP KCM25B	B53
5591962	TNMG220408RP KCM25B	B128
5591963	CNMG120408MW KCM25B	B52
5591964	TNMG220412RP KCM25B	B128
5591967	TNMG270612RP KCM25B	B128
5591968	SNMG150612RN KCP40B	B101
5591970	TNMG330924RN KCP40B	B127
5591971	CNMG190612RP KCP40B	B53
5591972	WNMG080408RP KCP40B	B159
5591973	CNMG190612RN KCP40B	B53
5591974	TNMG330924RP KCP40B	B128
5591975	CNMG190616RN KCP40B	B53
5591976	DNMG150408RP KCM25B	B81
5591977	SNMG190616RN KCP40B	B101
5591979	WNMG080412RN KCP40B	B159
5591982	SNMG120412RP KCM25B	B101
5591983	CNMG160612RN KCP40B	B53
5591986	TNMG220408RN KCP40B	B127
5591987	CNMG120408UP KCM25B	B54
5591988	SNMG120412RN KCP40B	B101
5591989	CNMG190612UP KCM25B	B54
5591990	SNMG120416RN KCP40B	B101
5591991	CNMG120412UP KCM25B	B54
5591992	TNMG270616RN KCP40B	B127
5591993	CNMG120404UP KCM25B	B54
5591995	DNMG150408UP KCM25B	B82
5591998	DNMG150616RN KCP40B	B81
5592000	SNMG120408RN KCP40B	B101
5592003	WNMG060408UP KCM25B	B160
5592005	WNMG080408UP KCM25B	B160
5592006	RNMG190600RN KCP40B	B94
5592007	DNMG150608UP KCM25B	B82
5592008	DNMG150608RN KCP40B	B81
5592010	TNMG220412RN KCP40B	B127
5592012	CNMG160612UP KCM25B	B54
5592103	CNMG160608MR KCP25B	B51
5592107	WNMG060408MR KCP25B	B157
5592121	TNMG220408MR KCP25B	B126
5592123	TNMG220408MR KCM25	B126
5592124	SNMG120408MR KCP25B	B99
5592128	CNMG190616MR KCP25B	B51
5592141	DNMG110408MR KCP25B	B80
5592142	DNMG110408MR KCP10B	B80
5592146	TNMG270612MR KCP25B	B126
5592160	VNMG160412MR KCM15	B146
5592162	WNMG080416MR KCP10B	B157
5592163	WNMG080416MR KCP25B	B157
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5593079	KTMDUWD20L060Z2	W29
5593100	KTMDUWD23L070Z2	W29
5593101	KTMDUWD26L080Z3	W29
5593102	KTMDUWD36L095Z3	W34
5593103	KTMDUWD31L095Z4	W29
5593104	KTMDUWD42L120Z4	W34
5593122	KTMDUCD15L060Z1	W30
5593123	KTMDUCD17L065Z2	W30
5593124	KTMDUCD20L080Z2	W30
5593128	KTMDUED23L086Z2	W31
5593129	KTMDUED26L105Z3	W31
5593130	KTMDUED36L144Z3	W34
5593131	KTMDUED31L115Z4	W31
5593136	KTMDUSD42L400Z4	W35
5593137	KTMDUSD48L400Z5	W35
5593138	KTMDUSD56L400Z6	W35
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5593143	TMS25D44L38Z6	W12
5593144	TMST25D36L34Z5	W13
5593149	TM24D14L26Z1	W4
5593150	TM24D15L30Z1	W4
5593151	TM24D16L28Z2	W4
5593152	TM24D16L36Z1	W4
5593153	TMT24D14L26Z1	W5
5593159	TM41D21L45Z1	W24
5593170	TM41D25L43Z2	W24
5593171	TM41D30L43Z3	W24
5593172	TM41D30L65Z3	W24
5593173	TM41D36L43Z5	W24
5593174	TM41D36L65Z4	W24
5593175	TMS41D48L50Z5	W25
5593176	TMS41D58L50Z6	W25
5593184	TM40D22L43Z3	W17
5593185	TM40D22L65Z3	W17
5593186	TM40D30L55Z4	W17
5593187	TM40D30L80Z3	W17
5593188	TMS40D44L48Z6	W18
5593189	TMS40D52L50Z8	W18
5593190	TMST40D45L48Z6	W19
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5593388	KTMDU11L2540N60 KC635M	W32
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5593680	KTMDU16L2535N60 KC635M	W36
5593681	KTMDU16L4060N60 KC635M	W36
5593682	KTMDU11L4816N55 KC635M	W32
5593683	KTMDU11L1612N55 KC635M	W32
5593684	KTMDU11L1107N55 KC635M	W32
5593686	KTMDU16L1107N55 KC635M	W36
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5593710	KTMDU16L1107N55 KC610M	W36
5593711	KTMDU16L0604N55 KC610M	W36
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5593742	TM24EN14BSF KC635M	W6
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5593882	TM40EN115NPTF KC610M	W21
5593883	TM40EN008NPTF KC610M	W21
5593884	TM40EN011BSPT KC610M	W21
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5593887	DNMG150408MR KCU10	B80
5593888	CNMG120412MR KCU10	B51
5593931	WNMG080408MR KCU10	B157
5593933	SNMG120408MR KCU10	B99
5593934	SNMG120412MR KCU10	B99
5593937	DNMG150608MR KCU10	B80
5595038	VNMG160408FF KCP10B	B145
5596414	CCMT120408LF KCM25B	B177
5596415	CCMT09T308LF KCM25B	B177
5596416	VBMT160408LF KCM25B	B265
5596417	DCMT11T308LF KCM25B	B207
5596418	VBMT160404LF KCM25B	B265
5596419	DCMT11T304LF KCM25B	B207
5596450	CCMT09T304LF KCM25B	B177
5596451	CCMT060204LF KCM25B	B177
5596455	CCMT09T308MF KCM25B	B177
5596456	CCMT120408MF KCM25B	B177
5596457	CNMG120408MN KCP40B	B50
5596460	CNMG120408MP KCM25B	B51
5596461	TNMG160408MP KCM25B	B125
5596462	CNMM190624RH KCP40B	B55
5596463	SNMM190616RM KCP40B	B103
5596465	CNMG120412RN KCP40B	B53
5596466	CNMG120416RN KCP40B	B53
5596468	CNMG120408RP KCM25B	B53
5596469	CNMG120412RP KCM25B	B53
5596480	TNMM220412RP KCM25B	B130
5596481	CNMM120408RP KCM25B	B56
5596483	SNMM190616RP KCM25B	B103
5596485	CNMM190616RP KCM25B	B56
5596488	CNMM160612RP KCM25B	B56
5596489	CNMM190612RP KCM25B	B56
5596859	KTIP1328HPM KCP15	H27
5596899	LNUX301940RRP KCP25	E52
5602422	KSEM3234HPGM KC7315	H43
5604719	B269A13800HP KCPK15	G70
5606542	UJBE1000A6AL KCSM15	P54
5606543	UJBE1200A6AL KCSM15	P54
5606544	UJBE1600A6AL KCSM15	P54
5606545	UJBE2000A6AL KCSM15	P54
5606546	UJBE1000A6AN KCSM15	P54
5606547	UJBE1200A6AN KCSM15	P54
5606548	UJBE1600A6AN KCSM15	P54
5606549	UJBE2000A6AN KCSM15	P54
5607996	LNPU15T612SRGE KC520M	T19
5607997	LNPU15T612SRGE KC522M	T19
5607998	LNPU15T612SRGE KC725M	T19
5608030	LNPU15T612SRGE KCPK30	T19
5608034	LNPU15T604SRGE KC520M	T19
5608035	LNPU15T604SRGE KC522M	T19
5608036	LNPU15T604SRGE KC725M	T19
5608037	LNPU15T604SRGE KCK15	T19
5608038	LNPU15T604SRGE KCPK30	T19
5608090	CNMM190616RP KCP25B	B56
5615509	HNHX090516ENLE KCK15	S90, S96
5615514	HNPX090530SNGE KCK15	S91, S97
5615518	HNHX090516SNGE KCK15	S91, S97
5615519	HNHX090516SNGE KC514M	S91, S97
5615534	VNMP160408K KCP10B	B148
5615608	VNMG160408FP KCP25B	B145
5615609	VNMG160408FN KCP10B	B145
5615610	HNHX090516ENLE KC514M	S90, S96
5615650	VNMG160408FN KCP25B	B145
5615680	HNPX090520SNGE KCK15	S91, S97
5615682	HNHX090520SNGE KCK15	S91, S97
5615683	HNHX090520SNGE KC514M	S91, S97
5615684	HNPX090516SNGE KCK15	S91, S97
5615687	HNHX090530SNGE KCK15	S91, S97
5616165	HNHX090520ENLE KCK15	S90, S96
5616166	HNHX090520ENLE KC514M	S90, S96
5616167	HNHX0905ANSNGE KCK15	S90, S96
5616168	HNHX0905ANSNGE KC514M	S90, S96
5618002	SNMM150612RM KCP25B	B103
5619961	SDET120464ENGB KC725M	T105, T112, U51
5619962	SDET120448SNGB KC725M	T105, T112, U51
5619963	SDET120448ENGB KC725M	T105, T112, U51
5619964	SDET120432ENGB KC725M	T105, T112, U51
5620156	LNPU221012PNSLHD2 KC520M	S121, S123
5620157	LNPU221012PNSLHD2 KCPK30	S121, S123
5620158	LNPU221012PNSRHD2 KCPM40	S121, S123

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5620360	LNPU221012PNSRHD2 KCPK30	S121, S123
5620745	LNPU2410ANSRHD2 KCPM40	S117
5620747	LNPU2410ANSRHD2 KCPK30	S117
5620748	SM-906LH KC720	S116, S120, S122
5626642	KSEM1250HPGM KCPM45	H45
5626643	KSEM1280HPGM KCPM45	H45
5626644	KSEM1300HPGM KCPM45	H45
5626645	KSEM1350HPGM KCPM45	H45
5626647	KSEM1360HPGM KCPM45	H45
5626648	KSEM1380HPGM KCPM45	H45
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5626702	KSEM1468HPGM KCPM45	H45
5626703	KSEM1500HPGM KCPM45	H45
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5626729	KSEM2461HPGM KCPM45	H46
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5626769	KSEM3900HPGM KCPM45	H46
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5627786	LNGU15T616SRGE KC725M	T19
5627787	LNGU15T616SRGE KCK15	T19
5627788	LNGU15T616SRGE KCPK30	T19
5627789	LNGU15T616ERGE KC725M	T18
5627870	LNGU15T616ERGE KCSM30	T18
5627871	LNGU15T616ERGE KCPM40	T18
5628796	CNMG120408MR KCPK05	B51
5628797	CNMG120412MR KCPK05	B51
5628831	CNMG160616RN KCPK05	B53
5628832	CNMG160616RP KCPK05	B53
5628833	DNMG150408MR KCPK05	B80
5628835	DNMG150412RN KCPK05	B81
5628837	DNMG150412MR KCPK05	B80
5628838	DNMG150608MW KCPK05	B80
5628839	DNMG150612RN KCPK05	B81
5628841	SNMG150616RN KCPK05	B101
5628844	WNMG080408RP KCPK05	B159
5628845	WNMG080408MR KCPK05	B157
5628847	WNMG080412RN KCPK05	B159
5628849	WNMG080412RP KCPK05	B159
5628850	WNMG080412MR KCPK05	B157
5629530	CNMG120412RN KCPK05	B53
5629532	CNMG190616RN KCPK05	B53
5629534	CNMM160616RP KCPK05	B56
5629536	DNMG150408MN KCPK05	B78
5629538	WNMG080408MW KCPK05	B158
5630018	LNGU15T616SRGEM KC520M	T19
5630019	LNGU15T616SRGEM KCK15	T19
5630070	LNGU15T616SRGEM KCPK30	T19
5630740	SNPJ10T308SNGD KC520M	S61
5630741	SNPJ10T308SNGD KCPM40	S61
5630742	SNPJ10T308SNGD KCK15	S61
5630743	SNPJ10T308SNGD KCPK30	S61
5630744	SNPJ10T312SNGD KCPM40	S61
5630745	SNPJ10T312SNGD KCK15	S61
5630746	SNPJ120608SNGD KC520M	S64
5630747	SNPJ120608SNGD KCPM40	S64
5630748	SNPJ120608SNGD KCK15	S64
5630751	SNPJ120616SNGD KCPM40	S64
5630752	SNPJ120616SNGD KCK15	S64
5631151	SNMG120408RP KCP25B	B101
5631155	SNMG120408RN KCP25B	B101
5635433	ND3040L KCU25	D14
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5639388	DCMT11T308MP KCK20B	B208
5639660	DCMT11T312MF KCK20B	B208
5639663	DNMA150408 KCK20B	B75
5639666	DNMA150612 KCK20B	B75
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5639681	DNMG150612RP KCK20B	B81
5639683	DPMT070208FW KCK20B	B215
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5639690	RCMT10T3M0 KCK20B	B224
5639691	RCMT1204M0 KCK20B	B224
5639693	RCMT2006M0 KCK20B	B224
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5639700	SCMT09T308MP KCK20B	B231
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5639703	SCMT120408MP KCK20B	B231
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5639710	SNMA120408 KCK20B	B96
5639761	SNMG120408RP KCK20B	B101
5639767	SPMT09T308LF KCK20B	B238
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5639787	TCMT16T304LF KCK20B	B244
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5639791	TCMT16T308MF KCK20B	B245
5639792	TCMT16T308MP KCK20B	B245
5639793	TCMT16T312LF KCK20B	B244
5639794	TCMT16T312MF KCK20B	B245
5639795	TCMT220408LF KCK20B	B244
5639796	TCMW16T304 KCK20B	B246
5639797	TCMW16T308 KCK20B	B246
5639799	TNMA160408 KCK20B	B123
5639822	TNMA220408 KCK20B	B123
5639823	TNMA220412 KCK20B	B123
5639826	TNMG220408RP KCK20B	B128
5639834	TPMT16T308LF KCK20B	B255
5639837	TPMT16T308MP KCK20B	B255
5639838	TPMT16T312MF KCK20B	B255
5639840	VBMT110308LF KCK20B	B265
5639845	CCMT060204FW KCK20B	B176
5639849	CCMT060208LF KCK20B	B177
5640382	CCMT09T304MF KCK20B	B177
5640383	CCMT09T304MP KCK20B	B177
5640386	CCMT09T308MP KCK20B	B177
5640387	CCMT09T308MW KCK20B	B178
5640388	CCMT09T312MF KCK20B	B177
5640391	CCMT120408MF KCK20B	B177
5640392	CCMT120408MP KCK20B	B177
5640393	CCMT120408MW KCK20B	B178
5640394	CCMT120412LF KCK20B	B177
5640397	CCMW060204 KCK20B	B178
5640399	CCMW09T308 KCK20B	B178
5640400	CCMW120408 KCK20B	B178
5640401	CCMW120412 KCK20B	B178
5640402	CNMA120404 KCK20B	B47
5640403	CNMA160616 KCK20B	B47
5640406	CNMA190616 KCK20B	B47
5640408	CNMG120416RP KCK20B	B53
5640409	CNMG160612RP KCK20B	B53
5640416	CPMT060208MF KCK20B	B190
5640418	CPMT09T304FW KCK20B	B189
5640419	CPMT09T304LF KCK20B	B190
5640421	CPMT09T308LF KCK20B	B190
5640422	CPMT09T308MF KCK20B	B190
5640424	CPMT09T308MW KCK20B	B191
5640425	VBMT160404FP KCK20B	B265
5640427	VBMT160408FP KCK20B	B265
5640428	VBMT160408MP KCK20B	B265
5640429	VBMT160412LF KCK20B	B265
5640431	VNMG160408RP KCK20B	B147
5640436	WNMG080408RP KCK20B	B159
5640437	WNMG080412RP KCK20B	B159
5640442	CCMT060204LF KCM15B	B177
5640443	CCMT09T304LF KCM15B	B177
5640444	CCMT09T308LF KCM15B	B177
5640445	CCMT09T308MF KCM15B	B177
5640448	CCMT120408MF KCM15B	B177
5640449	CNMG120408FP KCM15B	B49
5640480	CNMG120408MP KCM15B	B51
5640482	CNMG120408RP KCM15B	B53
5640483	CNMG120412RP KCM15B	B53
5640484	DCMT11T304LF KCM15B	B207
5640485	DCMT11T308LF KCM15B	B207
5640486	DNMG110404FP KCM15B	B77
5640487	DNMG150612FP KCM15B	B77
5640490	TNMG160408MP KCM15B	B125
5640491	TPMT090204LF KCM15B	B255
5640492	VBMT160404LF KCM15B	B265
5640493	VBMT160408LF KCM15B	B265
5640494	WNMG080408FP KCM15B	B156
5640496	WNMG080412MW KCM15B	B158
5640904	CCMT060204FP KCM15B	B176
5640905	CCMT060204MF KCM15B	B177
5640906	CCMT060204MP KCM15B	B177
5640907	CCMT060208LF KCM15B	B177
5640908	CCMT09T304FP KCM15B	B176
5640909	CCMT09T304MF KCM15B	B177
5640960	CCMT09T304MP KCM15B	B177
5640961	CCMT09T304MW KCM15B	B178
5640962	CCMT09T308FP KCM15B	B176
5640963	CCMT09T308FW KCM15B	B176
5640964	CCMT09T308MP KCM15B	B177
5640965	CCMT09T308MW KCM15B	B178
5640969	CNMG090308MP KCM15B	B51
5640970	CNMG120404FF KCM15B	B48
5640971	CNMG120404MP KCM15B	B51
5640973	CNMG120404UP KCM15B	B54
5640974	CNMG120408FF KCM15B	B48
5640975	CNMG120408FW KCM15B	B49
5640976	CNMG120408MR KCM15B	B51
5640977	CNMG120408P KCM15B	B52
5640978	CNMG120408UP KCM15B	B54
5640979	CNMG120412MP KCM15B	B51
5640980	CNMG120412MR KCM15B	B51
5640981	CNMG120416MP KCM15B	B51
5640982	CNMG160608MP KCM15B	B51
5640985	CNMG160612MP KCM15B	B51
5640986	CNMG160612RP KCM15B	B53
5640988	CNMG190608MP KCM15B	B51
5640997	WNGA080408S01015FWHBMT KBH20	B324
5641044	SNMG150612MR KCM15B	B99
5641046	WNMG080408MR KCM15B	B157
5641047	WNMG080412MR KCM15B	B157
5641048	CNMG120404MR KCM15B	B51
5641055	DNMG150608MR KCM15B	B80
5641062	VNMG160408MR KCM15B	B146
5641064	WNMG060408MR KCM15B	B157
5641067	CPGH09T304 KCM15B	B188
5641069	CPMT060208MF KCM15B	B190
5641090	CPMT09T304LF KCM15B	B190
5641091	CPMT09T308MF KCM15B	B190
5641093	DCMT070204LF KCM15B	B207
5641094	DCMT11T308MF KCM15B	B208
5641095	DNMG110408FW KCM15B	B78
5641096	DNMG150404FF KCM15B	B76
5641098	DNMG150404MP KCM15B	B79
5641099	DNMG150408MP KCM15B	B79
5641101	DNMG150604MP KCM15B	B79
5641102	DNMG150608MP KCM15B	B79
5641105	SNMG120408MP KCM15B	B98
5641107	SNMG150616RP KCM15B	B101
5641108	TCMT110204LF KCM15B	B244
5641109	TNMG160404FF KCM15B	B124
5641110	TNMG160404MP KCM15B	B125
5641111	TNMG160412MP KCM15B	B125
5641113	TNMG220408MP KCM15B	B125
5641114	VNMG160404FF KCM15B	B145
5641115	VNMG160404MP KCM15B	B146
5641116	VNMG160408MP KCM15B	B146
5641117	VNMG160412MP KCM15B	B146
5641118	WNMG080404FW KCM15B	B156
5641119	WNMG080404P KCM15B	B158
5641120	WNMG080408MP KCM15B	B157
5641121	WNMG080408P KCM15B	B158
5641122	WNMG080408RP KCM15B	B159
5641123	WPMT06T304LF KCM15B	B272
5641236	CCMT060204LF KCK20B	B177
5641237	CCMT09T308LF KCK20B	B177
5641238	CCMT09T308MF KCK20B	B177
5641239	CCMT120408LF KCK20B	B177
5641360	CNMA120408 KCK20B	B47
5641361	CNMA120412 KCK20B	B47
5641363	CNMA160612 KCK20B	B47
5641364	CNMG120404UN KCK20B	B54
5641365	CNMG120408RP KCK20B	B53
5641366	CNMG120408UN KCK20B	B54
5641367	CNMG120412RP KCK20B	B53
5641369	DCMT11T304LF KCK20B	B207
5641370	DCMT11T308LF KCK20B	B207
5641371	SCMT09T308LF KCK20B	B230
5641372	SNMA120412 KCK20B	B96
5641373	SNMG120412UN KCK20B	B102
5641375	VBMT160404LF KCK20B	B265
5641377	WNMA080408 KCK20B	B155
5641379	WNMG060408UN KCK20B	B160
5642146	CNMG120412UN KCK20B	B54
5642147	CNMG120416UN KCK20B	B54
5642148	CNMG160608UN KCK20B	B54
5642149	CNMG160612UN KCK20B	B54
5642150	CNMG160616UN KCK20B	B54
5642154	DNMA110408 KCK20B	B75
5642155	DNMA150416 KCK20B	B75
5642158	DNMG150408UN KCK20B	B82
5642159	DNMG150412UN KCK20B	B82
5642160	DNMG150416UN KCK20B	B82
5642161	DNMG150608UN KCK20B	B82
5642162	DNMG150612UN KCK20B	B82
5642165	RCMT2006M0RP KCK20B	B226
5642167	SNMG120408UN KCK20B	B102
5642168	SNMG120416UN KCK20B	B102
5642173	TNMG160408UN KCK20B	B128
5642174	TNMG160412UN KCK20B	B128
5642182	WNMA060412 KCK20B	B155
5642185	WNMG080408UN KCK20B	B160
5642186	WNMG080412UN KCK20B	B160
5650846	TPUN110304 KCK15B	B171
5650847	TPUN160304 KCK15B	B171
5650848	TPUN160308 KCK15B	B171
5651220	RPHT1204M0TX4 X700	V96
5651222	XDLW090408SRD X500	V16

Dizin

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5651223	XDLW120508SRD X400	V25
5651479	RPHT1204M0E421X4 X500	V95
5652131	XPNT2020T306RF SP6519	V105
5652140	SDHT120412EN422 SP6519	T119
5652239	XDLW090408SRD X400	V16
5652248	XDLT120512ERD411 X500	V24
5652249	XDLT090412ERD411 SP6519	V15
5652489	RPHT1204M0TX4 SP6519	V96
5652490	XDLT090408ERD41 SP6519	V14
5652729	XDLT120508ERD41 SC6525	V23
5652800	RPEX10T3M0F701X4 SP4019	V90
5652874	XPNT32320612RF SP6519	V105
5652878	XPNT4040T716RF SP6519	V105
5652899	XDLT120512ERD411 SP6519	V24
5653062	XPNT16160308RF SP6519	V105
5653064	XPNT5050T716RF SP6519	V105
5653106	XDLT090408ERD41 SC6525	V14
5653137	SDHT120412EN423 X500	T119
5653138	SDHT09T308EN422 X500	T116
5653139	XELT160512ERD41 X500	V30
5653140	XELT160512ERD41 SP6519	V30
5653576	SDHT09T308EN422 SP6519	T116
5653885	SDHT120412EN422 X500	T119
5653890	SDHT09T3AEEN422 SP6519	T116
5653930	XDLT120508ERD41 X500	V23
5653967	XELW160512SRD X400	V31
5654214	XPNT25250408RF SP6519	V105
5654220	XDLT120508ERD41 SP6519	V23
5654267	XPLT060308ERD41 SP6519	V7
5654371	RPHT1204M0TX4 X500	V96
5654377	XPLT060308ERD41 X400	V7
5654397	XPLT060308ERD41 X500	V7
5654405	SDHT09T308EN423 X500	T116
5654744	RPMT1204M0E41X4 SP6519	V96
5654896	XDLT090408ERD41 X500	V14
5655031	SDHT120412EN423 SP6519	T119
5655035	RPHT10T3M0TX4 SP6519	V91
5655104	XELT160512ERD41 SC6525	V30
5655105	SDHT09T308EN423 SP6519	T116
5655109	XDLW120508SRD X500	V25
5655128	RPHT10T3M0TX4 X500	V91
5655172	XDLT090412ERD411 X500	V15
5655255	XDLW090408SRD SC6525	V16
5655265	XPLT060308ERD41 SC6525	V7
5655472	XDLT090408ERD721 GH2	V14
5655817	XELW160512SRD SC3025	V31
5656081	XDLW090408SRD SC3025	V16
5656214	XDLW120508SRD SC3025	V25
5656242	RPEX10T3M0F701X4 GH1	V90
5656252	XDLT120508ERD721 GH2	V23
5656377	7792VXD09-A050Z6R	V12–13
5656380	7792VXD12-A125Z8R	V20–22
5656381	RPMT10T3M0E41X4 X500	V91
5656383	7792VXD12-A052Z5R	V20–22
5656533	SDMT120412EN41 MP91M	T120
5656727	7792VXD09-A040Z3R	V12–13
5656728	7792VXD12-A052Z3R	V20–22
5656729	7792VXD12-A063Z4R	V20–22
5656730	7792VXD12-A080Z5R	V20–22
5656765	SDMT09T308EN41 X500	T117
5656911	RPHT10T3M0E421X4 X700	V90
5656914	7792VXD09-A050Z5R	V12–13
5656917	RPMW10T3M0TX4 X500	V91
5657226	RPMT1204M0E41X4 X500	V96
5657234	7792VXD09-A040Z4R	V12–13
5657235	7792VXD12-A063Z5R	V20–22
5657271	SDMT120412EN41 X500	T120
5657681	RPHT1204M0E442X5 X500	V96
5657863	F3510T S	V9–12
5657893	7792VXD09WA025Z2R	V10, V13
5658074	7792VXD09WA032Z3R	V10, V13
5658181	XER050NTN4-E SP4060	P73
5658182	XER080NN4-C SP4060	P73
5658183	XER080NN4-G SP4060	P73
5658184	XER100NN4-E SP4060	P73
5658186	XER120NN4-J SP4060	P73
5658187	XER160NN4-G SP4060	P73
5658324	RPHT1204M0E442X5 SP6519	V96
5658492	XER160NN4-P SP4060	P73
5658650	ZDET16M540ER721 GH1	T90
5658651	7792VXE16CA040Z2R102	V27, V29
5659130	7792VXD12-160Z7R	V20–22
5659132	7792VXD12SA032Z2R43 S	V18, V22
5659264	RPHT1204M0E442X4 SP6519	V95
5659355	SDMW120412TN SP6519	T120
5659561	RPHT1204M0E442X5 X700	V96
5659562	RPHT10T3M0E422X8 X700	V91
5659563	7792VXE16CA050Z3R102	V27
5659603	ZDET16M525ER721 GH1	T90
5659867	RPHT10T3M0E422X4 SP6519	V91
5659912	ZDET16M520FR721 GH1	T90
5659913	ZDET16M532FR721 GH1	T90
5659914	ZDET16M560FR721 GH1	T90
5659947	7792VXD09CA025Z2R50	V11, V13
5659955	7792VXE16-A063Z5R	V28–29
5659956	7792VXE16-A100Z8R	V28–29
5660025	XE060MN4-C SP4060	P72
5660042	RPMW1204M0TX4 SP6519	V97
5660062	7792VXP06SA032Z5R43 S	V4, V6
5660064	7792VXD12-A066Z4R	V20–22
5660065	7792VXD12-A066Z5R	V20–22
5660220	XER060NN4-G SP4060	P73
5660221	XER120NN4-C SP4060	P73
5660222	XER120NN4-G SP4060	P73
5660223	XER160NN4-J SP4060	P73
5660351	RPHT1204M0E442X4 X500	V95
5660353	XER120NN4-L SP4060	P73
5660448	7792VXD09SA032Z3R43 S	V9, V13
5660462	RPHT10T3M0E422X4 X500	V91
5660778	RPHT10T3M0E422X8 SP6519	V91
5661016	7792VXD09CA032Z3R70	V11, V13
5661017	7792VXD12CA032Z2R70	V19, V22
5661028	7792VXE16-A125Z10R	V28–29
5661037	ZDET16M512FR721 GH1	T90
5661186	SDMT09T308EN41 SP6519	T117
5665481	XE080MN4-C SP4060	P72
5665491	RPHT10T3M0E422X4 X700	V91
5665735	XE040MTN4-C SP4060	P72
5665736	XE050MTN4-C SP4060	P72
5665737	XE160MN4-C SP4060	P72
5665740	SDMT120412EN41 SP6519	T120
5665786	RPMW1204M0TX4 X500	V97
5665804	ZDET16M5PDFR721 GH1	T90
5665820	7792VXP06SA020Z2R35 S	V4, V6
5665928	RPEX1204M0E701X4 X500	V95
5665943	7792VXD12-A125Z11R	V20–22
5665949	ZDET16M508FR721 GH1	T90
5665950	ZDET16M540FR721 GH1	T90
5665957	7792VXE16-160Z12R	V28–29
5665960	XE025MTN4-C SP4060	P72
5665964	7792VXP06SA025Z3R35 S	V4, V6
5665970	XER030NTN4-C SP4060	P73
5665971	XER060NN4-C SP4060	P73
5666016	RPHT10T3M0E421X4 X500	V90
5666144	7792VXD12-A100Z9R	V20–22
5666187	7792VXD12-A052Z4R	V20–22
5666264	SDMT09T308EN41 MP91M	T117
5666365	XE200MN4-C SP4060	P72
5666376	ZDET16M516FR721 GH1	T90
5666394	RPMT10T3M0E41X4 MP91M	V91
5666409	7792VXP06CA025Z4R154	V5–6
5666519	RPHT10T3M0E422X8 X500	V91
5666838	XER200NN4-M SP4060	P73
5666871	XER160NN4-L SP4060	P73
5667006	7792VXE16-A080Z6R	V28–29
5667023	7792VXP06SA025Z4R35 S	V4, V6
5667132	RPMT10T3M0E41X4 SP6519	V91
5667156	XER100NN4-C SP4060	P73
5667399	RPMT1204M0E41X4 MP91M	V96
5667400	RPMW1204M0TX4 MP91M	V97
5667475	7792VXD09-A040Z5R	V12–13
5667478	7792VXD12-A080Z8R	V20–22
5667498	ZDET16M530FR721 GH1	T90
5667591	XER040NTN4-C SP4060	P73
5667592	XER100NN4-G SP4060	P73
5667593	XER160NN4-M SP4060	P73
5667617	XER060NN4-E SP4060	P73
5667618	XER120NN4-E SP4060	P73
5667619	XER200NN4-J SP4060	P73
5667834	7792VXD12-A100Z6R	V20–22
5667884	XER080NN4-E SP4060	P73
5667885	XER160NN4-C SP4060	P73
5667909	XE020MTN4-C SP4060	P72
5667916	7792VXD09SA025Z2R35 S	V9, V13
5667922	ZDET16M525FR721 GH1	T90
5667944	XE030MTN4-C SP4060	P72
5667946	ZDET16M504FR721 GH1	T90
5668058	XER020NTN4-C SP4060	P73
5668059	XER040NTN4-E SP4060	P73
5668061	XER200NN4-G SP4060	P73
5668072	RPHT1204M0E442X4 X700	V95
5671376	M8 1.25 X 25 SHCS	T88, V12, V89, V94
5671642	TB15	V9, V11–12, V21, V87–89
5671643	M20 X 2.5 X 50 SHCS	T118, V21, V28
5672230	7713VR10SA025Z2R35 S	V87, V89
5672231	7713VR10SA032Z3R35 S	V87, V89
5672232	7713VR12-A040Z04R	V94
5672233	7713VR12-A050Z05R	V94
5672234	7713VR12-A063Z06R	V94
5672235	7713VR12-A066Z06R	V94
5672236	7713VR12SA025Z2R35 S	V93–94
5672271	5720VZ16CA032Z2R75 S	T87
5672329	D6014T S	V102
5672330	NLW-16SP S	T118
5672332	FP2506T	V4–5
5672365	SB3230	T118
5672367	SB3413	T115
5672374	D4008T S	V87–89, V93–94
5672375	D4010T S	V18–19, V21, V94, V101–104
5672376	D5013T S	V101–102, V104
5672378	F4011T S	T118
5672381	T9 S	T115, T118
5672387	D4012T S	V21
5672404	FP3007T S	V101, V103–104
5672405	TP20	T86–89, V27–28
5672409	D4007T S	V87–89
5672410	NLW12SP WASHER	T118
5672412	SB3232	T118
5672414	FP3006T	V101, V104
5672415	TP7	V4–5
5672416	SB3621	T115
5672468	M-21-M12-CA25-156 S	V35
5672625	7713VR10-A042Z06R	V89
5672627	5505VX20CA25/020R40	V104
5672766	5720VZ16HA032Z3R75	T89
5672811	7713VR10CA020Z2R40	V88–89
5672812	7713VR10CA032Z3R70	V88–89
5672813	7713VR10-A040Z05R	V89
5672829	M-13-M8-CA16-130 S	V35
5672830	M-18-M10-CA20-190 S	V35
5672831	M-21-M12-CA25-206 S	V35
5672832	M-29-M16-CA32-160 S	V35
5672842	5505VX32WA032R100	V102
5672843	5505VX20SA020R35	V101
5672864	5230VS12-A063Z4R57	T118
5672869	5720VZ16-A050Z03R	T88
5672870	5720VZ16-A063Z4R S	T88
5672876	5230VS09-A050Z4R51	T115
5672883	5230VS12-A080Z5R65	T118
5672892	5720VZ16CA025Z2R75	T87
5672893	5720VZ16SA025Z2R50	T86
5672894	5720VZ16SA032Z2R50	T86
5672984	M-18-M10-CA20-170 S	V35
5672985	M-21-M12-CA25-131 S	V35
5672986	M-21-M12-CA25-181 S	V35
5672987	M-21-M12-CA25-231 S	V35
5672988	M-29-M16-CA32-210 S	V35
5672989	M-29-M16-CA32-310 S	V35
5673047	7713VR10CA025Z3R50	V88–89
5673048	7713VR10CA032Z4R70	V88–89
5673049	7713VR10SA020Z2R25 S	V87, V89
5673050	7713VR10SA032Z4R35 S	V87, V89
5673051	7713VR12-A050Z06R	V94
5673052	7713VR12SA032Z3R35 S	V93–94
5673053	7713VR12SA040Z5R43 S	V93–94
5673112	5505VX25WA025R60	V102
5673113	5505VX40WA040R100	V102
5673114	5505VX50WA050R100	V102
5673115	5505VX25SA025R40	V101
5673141	5505VX32CA032R65	V104
5673167	5230VS12-A063Z4R94	T118
5673169	5230VS12-A100Z6R133	T118
5673174	5720VZ16-A050Z04R	T88
5673236	5230VS12-A080Z5R110	T118
5673237	7792VXP06CA020Z3R154	V5–6
5673238	5720VZ16SA032Z3R50	T86
5673240	7792VXP06CA016Z2R140	V5–6
5673275	F8017S S	V102
5673297	5505VX50WA050R150	V102
5673316	5720VZ16-A080Z5R	T88
5673329	5505VX32WA032R75	V102
5673340	7713VR10-A050Z06R	V89
5673341	7713VR10SA035Z5R35 S	V87, V89
5673342	7713VR12-A052Z06R	V94
5673343	FP2507T	V4–5
5673352	M-13-M8-CA16-110 S	V35
5673360	7713VR12-A040Z05R	V94
5673438	7713VR10-A063Z08R	V89
5673439	7713VR12SA040Z4R43 S	V93–94
5673479	7713VR12-A066Z07R	V94
5673490	5720VZ16-A040Z3R	T88
5673503	7792VXD09SA035Z3R43	V9
5673504	7792VXD12-A050Z4R	V20–21
5673519	M-18-M10-CA20-130 S	V35
5673521	5505VX40WA040R150	V102
5673528	5720VZ16-A063Z5R S	T88
5673542	TP8	V101, V103–104
5673544	T20 S	T118, V101–102, V104
5673546	T15 S	T115, V9–12, V18–19, V21, V93–94, V101–104
5673548	DP5009A S	T86–89
5673587	M-13-M8-CA16-170 S	V35
5673599	7713VR12-A063Z07R	V94
5673610	5505VX25CA025R55	V104
5673616	5720VZ16-A080Z04R	T88
5673629	5720VZ16HA040Z4R75	T89
5673632	5505VX32SA032R50	V101
5673703	M-18-M10-CA20-110 S	V35
5673711	5505VX16SA016R25	V101
5673712	5505VX16CA20/016R30	V104
5673742	5230VS12-A100Z6R76	T118
5673749	5505VX25WA025R69	V103
5673750	5505VX20WA020R34	V103
5673768	7713VR10SA025Z3R35 S	V87, V89
5673769	7713VR12-A052Z05R	V94
5673770	7713VR12CA025Z2R50	V93–94
5673782	M-13-M8-CA16-090 S	V35
5673783	M-29-M16-CA32-260 S	V35
5673785	5505VX25CA32/025R55	V104
5673796	DP5013T S	V27–28
5673801	5230VS09-A050Z4R80	T115
5673828	7713VR10-A050Z07R	V89
5673829	7713VR12-A080Z08R	V94
5673830	7713VR12CA032Z3R70	V93–94
5673899	F3508T S	T115, V9–11
5674437	RPHT1204M0E442X5 SC6525	V96
5674698	RPPT1204M0E432X5 SC6525	V97
5674780	RPHT1204M0E442X8 SC6525	V96
5674803	RPPT1204M0E432X5 X700	V97
5674959	RPPT1204M0E432X8 X500	V97
5675037	RPPT1204M0E432X5 SP6519	V97
5675038	RPPT1204M0E432X5 X500	V97
5675140	RPPT1204M0E432X8 SP6519	V97
5675237	ZDET16M530ER721 GH1	T90
5676726	RIR01E1306 KC6105	K53
5676727	RIR04E1312 KC6105	K53
5676728	RIQ06E1306 KC6105	K55
5676729	RIQ06R0400FB KT6225	K55
5676760	RIQ06E1300 KC6005	K55
5676761	RIQ06E1300 KC6105	K55
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5676763	RIQ06E1312 KC6105	K55
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5676766	RIQ09E1312 KC6005	K55
5676767	RIQ09E1312 KC6105	K55
5676768	RIQ06EGR00 KC6105	K56
5676769	RIQ06EGR00 KC6305	K56
5676770	RIQ06EGR00 KC6005	K56
5676771	RIQ06EGR06 KC6005	K56
5676772	RIQ06EGR06 KC6105	K56
5676773	RIQ06EGR12 KC6005	K56
5676774	RIQ06EGR12 KC6105	K56
5676775	RIQ06EGR12 KC6305	K56

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5676776	RIQ09EGR00 KC6105	K56
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5676778	RIQ09EGR00 KC6005	K56
5676779	RIQ09EGR06 KC6005	K56
5676780	RIQ09EGR06 KC6105	K56
5676781	RIQ09EGR06 KC6305	K56
5676782	RIQ09EGR12 KC6005	K56
5676783	RIQ09EGR12 KC6105	K56
5676784	RIQ09EGR12 KC6305	K56
5676785	RIQ06EDR00 KC6105	K56
5676786	RIQ06EDR00 KC6305	K56
5676787	RIQ06EDR00 KC6005	K56
5676788	RIQ06EDR06 KC6005	K56
5676790	RIQ06EDR06 KC6105	K56
5676791	RIQ06EDR06 KC6305	K56
5676792	RIQ06EDR12 KC6005	K56
5676794	RIQ06EDR12 KC6105	K56
5676795	RIQ06EDR12 KC6305	K56
5676796	RIQ09EDR06 KC6005	K56
5676797	RIQ09EDR06 KC6105	K56
5676798	RIQ09EDR06 KC6305	K56
5676799	RIQ09EDR12 KC6005	K56
5676800	RIQ09EDR12 KC6105	K56
5676801	RIQ09EDR12 KC6305	K56
5681105	7792VXP06SA016Z2R25 S	V4, V6
5681115	5720VZ16CA032Z3R75 S	T87
5681122	7792VXP06SA020Z3R35 S	V4, V6
5681124	7792VXP06CA032Z5R190 S	V5–6
5682154	ZDET16M550FR721 GH1	T90
5682157	XE100MN4-C SP4060	P72
5682563	RPEX1204M0F701X4 GH1	V95
5682725	M16X2X40 LHSCS S	V28
5682757	TB20	V28
5682767	M12 X 1.75 X 30 SHCS S	T88, T115, T118, V12, V21, V28, V94
5682768	M10 1.5 X 25 SHCS S	T88, V12, V21, V28, V89, V94
5682773	M16 X 2 X 40 SHCS S	T118, V21
5682897	NLW-0.375 S	T115, T118
5684657	LNPU15T608SRGE KCPM40	T19
5684744	RNGN120400TGN KYSP30	V148
5684745	RNGN120400EGN KYSP30	V148
5684746	RNGN120400TGN KYS30	V148
5684747	RNGN120400EGN KYS30	V148
5685937	CNMG120408MN KCPK05	B50
5686413	RCMH3209M0TUP KCP25B	E60
5687543	KSEM1938HPLM KC7320	H50
5689447	DFSP240R5WD32M	J28
5689448	DFSP250R5WD32M	J28–29
5689449	DFSP260R5WD32M	J28
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5689692	DFSP230R4WD32M	J26
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5689906	DFSP210R5WD32M	J28–29
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5692804	DFTX20204MD KCU25	J87
5692805	DFTX20204HP KCU40	J87
5692806	DFTX20204MD KCU40	J87
5692807	DFTX20204HP KC7140	J87
5692808	DFTX20204MD KC7140	J87
5692809	SPHX060204R21 KCU25	J100
5692810	SPHX070304R21 KCU25	J100
5692811	SPHX090304R21 KCU25	J100
5692812	SPHX090308R21 KCU25	J100
5692813	SPHX120404R21 KCU25	J100
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5694056	CCMT060204UF KCP25B	B178
5694057	CCMT060208LF KCP25B	B177
5694058	CCMT09T304MF KCP25B	B177
5694059	CCMT120412MF KCP25B	B177
5694080	CNMG090304MN KCP25B	B50
5694081	CNMG090308MN KCP25B	B50
5694082	CNMG120404MN KCP25B	B50
5694083	CNMG120404RP KCP25B	B53
5694084	CNMG120412MW KCP25B	B52
5694085	CNMG120416MN KCP25B	B50
5694086	CNMG160608MN KCP25B	B50
5694087	CNMG160608RN KCP25B	B53
5694088	CNMG160608RP KCP25B	B53
5694090	CNMG190608MN KCP25B	B50
5694091	CNMG190608RN KCP25B	B53
5694092	CNMG190612RP KCP25B	B53
5694093	CNMG190616RP KCP25B	B53
5694094	CNMG190624RN KCP25B	B53
5694095	CNMP120404K KCP25B	B57
5694096	CNMP120408K KCP25B	B57
5694097	CPGH09T308 KCP25B	B188
5694098	CPMT060208LF KCP25B	B190
5694100	CPMT060208MF KCP25B	B190
5694101	CPMT09T304LF KCP25B	B190
5694102	DCMT070204LF KCP25B	B207
5694103	DCMT11T304MF KCP25B	B208
5694104	DCMT150404LF KCP25B	B207
5694105	DCMT150408LF KCP25B	B207
5694106	DNMG110404MN KCP25B	B78
5694107	DNMG110408MN KCP25B	B78
5694108	DNMG110408RP KCP25B	B81
5694109	DNMG110412RP KCP25B	B81
5694120	DNMG150404MN KCP25B	B78
5694121	DNMG150408RP KCP25B	B81
5694122	DNMG150604MN KCP25B	B78
5694123	DNMG150608RN KCP25B	B81
5694125	DNMP150404K KCP25B	B83
5694126	DNMP150408K KCP25B	B83
5694127	DPMT070204LF KCP25B	B215
5694128	DPMT11T304LF KCP25B	B215
5694157	RCGT0602M0RP KCP25B	B223
5694158	RCGT0803M0RP KCP25B	B223
5694170	RCMT1606M0RP KCP25B	B226
5694171	RCMX1003M0RP KCP25B	B226
5694172	SNMM250724RW KCP25B	B103
5694175	CNMM250924RW KCP25B	B56
5694176	TNMM330924MR KCP25B	B129
5694202	170.370	J23, J25, J31, J33, J35, J37
5694627	RCMT1204M0RP KCP10B	B226
5694628	RCMX1003M0RP KCP10B	B226
5694629	SNMM250724RH KCP10B	B102
5694740	SNMM250924RH KCP10B	B102
5694866	CNMG120404UN KCK15B	B54
5694867	CNMG160608UN KCK15B	B54
5694868	CNMG160612UN KCK15B	B54
5694871	CNMG190612UN KCK15B	B54
5694872	DNMG110412UN KCK15B	B82
5694873	DNMG150408UN KCK15B	B82
5694874	DNMG150608UN KCK15B	B82
5694875	DNMG150612UN KCK15B	B82
5694876	SNMG120408UN KCK15B	B102
5694877	SNMG150612UN KCK15B	B102
5694882	VNMG160408UN KCK15B	B147
5694883	WNMG080412UN KCK15B	B160
5696853	TNMP160404K KCP25B	B130
5696854	TNMP160408K KCP25B	B130
5696855	TNMP220408K KCP25B	B130
5696856	TPMT110204LF KCP25B	B255
5696857	TPMT16T304LF KCP25B	B255
5696859	VBMT110308LF KCP25B	B265
5696930	VNMG160404MN KCP25B	B145
5696931	VNMG160408RN KCP25B	B147
5696932	VNMG160412RN KCP25B	B147
5696933	VNMG220408RN KCP25B	B147
5696935	WNMG060408MN KCP25B	B157
5696936	WNMG080408MP KCP25B	B157
5696937	WPMT06T308LF KCP25B	B272

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5696938	CNMG190624MN KCP25B	B50
5696939	SNMG190608RN KCP25B	B101
5696940	CNMP120408 KCP25B	B56
5696941	VNMG220408LF KCP25B	B144
5696942	VNMG220404LF KCP25B	B144
5697010	CCMT060204LF KCP10B	B177
5697011	CCMT120408LF KCP10B	B177
5697012	CNMM160612RP KCP10B	B56
5697013	CNMM160616RM KCP10B	B55
5697014	CNMM190616RH KCP10B	B55
5697015	CNMM190616RP KCP10B	B56
5697016	CNMM190624RH KCP10B	B55
5697017	CNMM190624RW KCP10B	B56
5697018	CPMT060204LF KCP10B	B190
5697019	DCMT11T304LF KCP10B	B207
5697020	DNMG110408FN KCP10B	B77
5697021	DNMG150404FN KCP10B	B77
5697022	DNMG150408FF KCP10B	B76
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5697027	SNMG120408FN KCP10B	B97
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
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5879816	LNPU2410ANSLHD2 KCPK30	S117
5882266	CNMM250924RH KCP30B	B55
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5882269	CNMG120408RN KCP30B	B53
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5882580	DT3IP	W34–35
5882752	MS9000	W17–19, W24–25
5882754	MS5001	W12–13
5882756	MS5004	W12
5882757	MS5003	W18–19, W25
5882758	MS5002	W12
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5882890	WNMG060408MP KCM35B	B157
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5882976	TNMG160412UN KCK05B	B128
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5883445	RPHT1204M0SGDX5 KCM40	V96
5883446	RPHT1204M0SGDX8 KCM40	V96
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5883581	TNMG160408FN KCP05B	B124
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5886544	SNMG190612RP KCP40B	B101
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5887614	SNMG190616RP KCPK05	B101
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5892655	CNMG120408FW KCP05B	B49
5892659	DNMG110408FF KCP05B	B76
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5894140	RPPT10T3M0E432X5 SC6525	V91
5894201	RPPT10T3M0E432X5 SP6519	V91
5894202	RPPT10T3M0E432X5 X700	V91
5894258	SDET120412PDSRGB KC725M	T105, T112, U51
5894812	SDET120424ENGB KC725M	T105, T112, U51

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5894813	SDET120424SNGB KC725M	T105, T112, U51
5894815	SDET120416SNGB KC725M	T105, T112, U51
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5941075	EC030M03R06CF02 KCU25	C24
5941076	EC040M04N00CF02 KCU25	C24
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5941078	EC040M04R06CF02 KCU25	C24
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5941080	EC040M04N00CM02 KCU25	C26
5941081	EC030M03N00CR02 KCU25	C27
5941082	EC040M04N00CR02 KCU25	C27
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5941104	EG0400M04P08GUP KCU25	C18
5941105	EG0300M03P02GUP K313	C18
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5956893	M4KITD25Z02A25SGEMKC520M	T21
5956894	M4KITD32Z03A32SGEMKC520M	T21
5956896	M4KITD40Z04S16SGEMKC520M	T21
5956897	M4KITD50Z05S22SGEMKC520M	T21
5956898	M4KITD50Z06S22SGEMKC520M	T21
5956899	M4KITD63Z07S22SGEMKC520M	T21
5956900	M4KITD80Z09S27SGEMKC520M	T21
5956901	M4KITD100Z11S32SGEMKC520M	T21
5957724	FSDE0600A7DYA KC643M	P94
5957726	FSDE0600A7DYE KC643M	P94
5957728	FSDE0800A7DYA KC643M	P94
5957730	FSDE0800A7DYE KC643M	P94
5957772	FSDE1000A9DYE KC643M	P94
5957774	FSDE1000A9DYG KC643M	P94
5957776	FSDE1200E9DYE KC643M	P94
5957778	FSDE1200E9DYG KC643M	P94
5957780	FSDE1200E9DYL KC643M	P94
5957782	FSDE1600EBDYG KC643M	P94
5957784	FSDE1600EBDYM KC643M	P94
5957786	FSDE2000EFDYG KC643M	P94
5957788	FSDE2000EFDYK KC643M	P94
5957790	FSDE2000EFDYL KC643M	P94
5957792	FSDE2500EJDYG KC643M	P94
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5964046	KSEM1270SPLM KCMS35	H52
5964047	KSEM1300SPLM KCMS35	H52
5964048	KSEM1350SPLM KCMS35	H52
5964049	KSEM1400SPLM KCMS35	H52
5964050	KSEM1429SPLM KCMS35	H52
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5964105	KSEM1600SPLM KCMS35	H52
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5964107	KSEM1615SPLM KCMS35	H52
5964108	KSEM1627SPLM KCMS35	H52
5964109	KSEM1650SPLM KCMS35	H52
5964110	KSEM1667SPLM KCMS35	H52
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5964123	KSEM1920SPLM KCMS35	H52
5964125	KSEM1923SPLM KCMS35	H52
5964127	KSEM1925SPLM KCMS35	H52
5964129	KSEM1927SPLM KCMS35	H52
5964131	KSEM1935SPLM KCMS35	H52
5964133	KSEM1945SPLM KCMS35	H52
5964135	KSEM1950SPLM KCMS35	H52
5964137	KSEM1984SPLM KCMS35	H52
5964139	KSEM2000SPLM KCMS35	H52
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5964175	KSEM2565SPLM KCMS35	H52
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5964186	KSEM3000SPLM KCMS35	H53
5964187	KSEM3175SPLM KCMS35	H53
5964188	KSEM3200SPLM KCMS35	H53
5964189	KSEM3846SPLM KCMS35	H53
5964190	KSEM4000SPLM KCMS35	H53
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5964799	UADE0800A4BV KCPM15	P17
5964800	UADE1000A4BV KCPM15	P17
5964801	UADE0600B4BV KCPM15	P17
5964802	UADE0800B4BV KCPM15	P17
5964803	UADE1000B4BV KCPM15	P17
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5967744	NG2031LK KCP10B	C147
5967745	NG2031RK KCP10B	C146
5967747	NG2047LK KCP10B	C147
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5967749	NG2062LK KCP10B	C147
5967750	NG2062RK KCP10B	C146
5967802	NG2094LK KCP10B	C147
5967803	NG2094RK KCP10B	C146
5967804	NG2125LK KCP10B	C148
5967805	NG2125RK KCP10B	C146

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5967806	NG2M080LK KCP10B	C147
5967807	NG2M080RK KCP10B	C146
5967808	NG2M100LK KCP10B	C147
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5967821	NG2M120LK KCP10B	C147
5967822	NG2M120RK KCP10B	C146
5967823	NG2M140LK KCP10B	C147
5967825	NG2M140RK KCP10B	C146
5967826	NG2M170LK KCP10B	C147
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5968105	NG4M600RK KCP25B	C147
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5968392	KTIP0850FEGM KCPM45	H29
5968393	KTIP0900FEGM KCPM45	H29
5968394	KTIP0950FEGM KCPM45	H29
5968395	KTIP1000FEGM KCPM45	H29
5968396	KTIP1050FEGM KCPM45	H29
5968397	KTIP1100FEGM KCPM45	H29
5968398	KTIP1150FEGM KCPM45	H29
5968399	KTIP1200FEGM KCPM45	H29
5968400	KTIP1250FEGM KCPM45	H29
5968401	KTIP1270FEGM KCPM45	H29
5968402	KTIP1300FEGM KCPM45	H29
5968403	KTIP1350FEGM KCPM45	H29
5968404	KTIP1400FEGM KCPM45	H29
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5968406	KTIP1500FEGM KCPM45	H29
5968407	KTIP1550FEGM KCPM45	H29
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5968409	KTIP1650FEGM KCPM45	H29
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5968411	KTIP1750FEGM KCPM45	H29
5968412	KTIP1800FEGM KCPM45	H29
5968413	KTIP1850FEGM KCPM45	H29
5968414	KTIP1900FEGM KCPM45	H29
5968416	KTIP1905FEGM KCPM45	H29
5968417	KTIP1950FEGM KCPM45	H29
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5970211	UJBE0400A6BP KCSM15	P62
5970212	UJBE0500A6CP KCSM15	P62
5970213	UJBE0500A6BP KCSM15	P62
5970214	UJBE0600A6BP KCSM15	P62
5970215	UJBE0600A6CP KCSM15	P62
5970216	UJBE0700A6BP KCSM15	P62
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5970220	UJBE1000A6CP KCSM15	P62
5970221	UJBE1000A6BP KCSM15	P62
5970234	RPPT1204M0E432X4 X700	V97
5970235	RPPT1204M0E432X4 X500	V97
5970237	RPPT1204M0E432X4 SC6525	V97
5971570	200C09RS90RC20CHP	V82
5971596	160C08RS90RC20CHP	V82
5971597	160C07RS90RC20CHP	V82
5972039	KTIP1394HPM KCP15	H27
5975092	LNEU1235R03 4 KCPM40	U19
5975093	LNEU1250R04 KCPM40	U19
5975094	LNEU1250R08 KCPM40	U19
5976169	LNPU15T612SRGE KCPM40	T19
5976170	LNGU15T608SRGEM KCPM40	T19
5976671	LNGU15T612SRGEM KCPM40	T19
5976672	LNGU15T616SRGEM KCPM40	T19
5976676	MCC0800HP	V82
5976677	MCCM160HP	V82
5976678	SDSW66	V82
5977291	LNUX301960RRP KCP10B	E48
5977292	LNUX301960RRP KCP25B	E48
5977635	EVBSN26J0540	C49
5977636	EVBSN26J0640	C49
5977637	EVBSN32M0560	C49
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5979748	KGMSL2525M65C	C58
5979749	KGMSL3232P50C	C58
5979750	KGMSL3232P65C	C58
5979765	KGMER2525M65C	C59
5979766	KGMER3232P50C	C59
5979767	KGMER3232P65C	C59
5979768	KGMEL2525M65C	C59
5979769	KGMEL3232P50C	C59
5979770	KGMEL3232P65C	C59
5979852	WNMG080408MG KCP10B	B156
5979853	WNMG080408MG KCP25B	B156
5980138	EVSCTR2525M0316C	C39
5980139	EVSCTR1616K0216	C39
5980140	EVSCTR1616K0316C	C39
5980518	A12KEVEMR1F05M	C46
5980519	A12KEVEMR0205M	C46
5980520	A16MEVEMR1F07M	C46
5980621	A16MEVEMR0207M	C46
5980622	A20QEVEMR1F07M	C46
5980623	A20QEVEMR0207M	C46
5980624	A25REVEMR0210M	C46
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5980626	A12KEVEML0205M	C47
5980627	A16MEVEML1F07M	C47
5980628	A16MEVEML0207M	C47
5980629	A20QEVEML1F07M	C47
5980630	A20QEVEML0207M	C47
5980631	A25REVEML0210M	C47
5980761	EVSCTR1616K0416C	C39
5980762	EVSCTR2020K0216	C39
5980763	EVSCTR2020K0316C	C39
5980764	EVSCTR2020K0326C	C39
5980765	EVSCTR2020K0416C	C39
5980766	EVSCTR2020K0426C	C39
5980767	EVSCTR2525M0216	C39
5980768	EVSCTR2525M0226	C39
5980769	EVSCTR2525M0326C	C39
5980770	EVSCTR2525M0426C	C39
5980771	EVSCTR2525M0432C	C39
5980772	EVSCTR2525M0526C	C39
5980773	EVSCTR2525M0532C	C39
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5980775	EVSCTR3232P0540C	C39
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5980813	EVSCTL3232P0540C	C40
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5981572	KSEM1750FEGM KCPM45	H54
5981573	KSEM1800FEGM KCPM45	H54
5981574	KSEM1850FEGM KCPM45	H54
5981575	KSEM1900FEGM KCPM45	H54
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5981580	KSEM2100FEGM KCPM45	H54
5981581	KSEM2150FEGM KCPM45	H54
5981582	KSEM2200FEGM KCPM45	H54
5981583	KSEM2250FEGM KCPM45	H54
5981584	KSEM2300FEGM KCPM45	H54

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
5981585	KSEM2350FEGM KCPM45	H54
5981586	KSEM2400FEGM KCPM45	H54
5981587	KSEM2450FEGM KCPM45	H54
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5981592	KSEM2600FEGM KCPM45	H54
5981593	KSEM2650FEGM KCPM45	H54
5981594	KSEM2700FEGM KCPM45	H54
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Dizin

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
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6024367	7792VXD09CA032Z4R70	V11, V13
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6025670	SPPX070304LP KCU40	J90
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6025822	SPGX050204LP KCU40	J90
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6025824	SPPX09T308LP KCU40	J90
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6025826	DFT05T308D33DS KCU40	H88
6025827	DFT06T308D36DS KCU40	H88
6025828	DFT06T308D39DS KCU40	H88
6025829	DFT06T308D44DS KCU40	H88
6025830	DFT070408D45DS KCU40	H88
6025891	DFT070408D50DS KCU40	H88
6025892	DFT090508D56DS KCU40	H88
6025893	DFT090508D63DS KCU40	H88
6025894	DFT090508DS KCU40	J88
6025895	DFC040310D28DS KCU40	H90
6025896	DFC05T312D32DS KCU40	H90
6025897	DFC06T312D36DS KCU40	H90
6025898	DFC070416D45DS KCU40	H90
6025899	DFC090520D56DS KCU40	H90
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6026364	SPGX060304LP KCU40	J90
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6031041	EVM50R1F12M	C50
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6033254	XDPW120515SRD KCPM40	V25
6033255	XDPW120515SRD KCPK30	V25
6033256	XDPW120515SRD KC522M	V25
6033257	XDPW120515SRD KCK15	V25
6033258	XDPW120515SRD KC510M	V25
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6034359	LNUX191950RRF KCP25B	E48
6034360	LNUX191950RRP KCP10B	E48
6034411	LNUX191950RRP KCP25B	E48
6039659	HNGJ0604ANSNHD KCPM40	S7, S12, S16
6039660	HNGJ0604ANSNHD KCK15	S7, S12, S16
6039811	HNGJ0604ANSNHD KC522M	S7, S12, S16
6039812	HNGJ0604ANSNHD KCPK30	S7, S12, S16
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6039815	SNHJ120608SNGD KCPK30	S63
6039816	SNHJ120608SNGD KCK15	S63
6039817	SNHJ120608SNGD KC520M	S63
6039818	SNHJ120608SNGD KC522M	S63
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6041799	KSEMP7600FDS71B1M	H86, H95
6041800	KSEMP7800FDS71B1M	H86, H95
6041881	KSEMP8000FDS80B1M	H86, H96
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6041901	KSEMP10000FDS90B1M	H86, H96
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6041930	KSEMP10000FDS90A1M	H82, H93, H99
6041931	KSEMP7303FDS71A1M	H82, H92, H99
6041932	KSEMP7938FDS80A1M	H82, H93, H99
6041933	KSEMP8573FDS80A1M	H82, H93, H99
6041934	KSEMP9208FDS90A1M	H82, H93, H99
6041935	KSEMP9843FDS90A1M	H82, H93, H99
6041937	KSEMP7100FDS71B1M	H86, H95
6041938	KSEMP7300FDS71B1M	H86, H95
6041939	KSEMP7500FDS71B1M	H86, H95
6041940	KSEMP7700FDS71B1M	H86, H95
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6042002	KSEMP7303FDS71B1M	H86, H95
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6042984	KSDR100031E1W4S KD1400	S127
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6042986	KSDR100031E3W4S KD1400	S128
6042987	KSDR100031E3W4S KD1425	S128
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6043031	KSDR102S KD1425	S128
6044682	KBDM063SD06	S126
6044683	KBDM080SD08	S126
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6044685	KBDM125SD16	S126
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6044824	LNGU15T608SRGEH KCSM40	T20
6048710	KSEM2554HPGM KC7315	H43
6049015	WLJNR32CA19S	E49
6049016	WLJNL32CA19S	E49
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6049018	WLJNL32CA30S	E49
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6054194	KSCMA90QFBF KD1400	S134
6054195	KSCMA90QFBF KD1420	S134
6055137	RMR14000H7SF KCU05	K15
6055138	RMR15000H7SF KCU05	K15
6055139	RMR16000H7SF KCU05	K15
6055140	RMR17000H7SF KCU05	K15
6055148	CNMM190616MR KCP25B	B54
6055261	RMR18000H7SF KCU05	K15
6055262	RMR19000H7SF KCU05	K15
6055263	RMR20000H7SF KCU05	K15
6055264	RMR14000H7HF KCU05	K16
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6063471	UGDE2500A5BRP KC643M	P37
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6063661	FSDE1600EBDYP KC643M	P94
6063663	FSDE2000EFDYP KC643M	P94
6063665	FSDE2500EJDYL KC643M	P94
6063667	FSDE2500EJDYP KC643M	P94
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6066132	ABDE1600A3ARL K600	P113
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6068043	HNGJ090543ANSNHD KCPM40	S19, S23
6068798	HNPJ060432ANSNHD KCPM40	S7, S13, S16
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6072165	UKDV3200X4CV KCPM15	O8
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6072566	UJDV2000X6CQL KCSM15	O16
6072567	UJDV2000X6CQM KCSM15	O16
6072568	UJDV2000X6CQN KCSM15	O16
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6072570	UJDV2500X6CQN KCSM15	O16
6072571	UJDV3200X6CQL KCSM15	O16
6072572	UJDV3200X6CQN KCSM15	O16
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6074029	XDPT120515SRGP KC725M	V24
6074030	XDPT120515SRGP KC522M	V24
6075455	DFSP140R2WB20M	J30
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6075499	DFSP209R2WB25M	J30
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6075636	DFSP170R3WB20M	J32–33
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6075716	DFSP160R5WB20M	J36
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6075719	DFSP170R5WB20M	J36–37
6075720	DFSP175R5WB25M	J36
6075721	DFSP160R4WB20M	J34
6075722	DFSP165R4WB20M	J34
6075723	DFSP170R4WB20M	J34–35
6075724	DFSP175R4WB25M	J34

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
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6075727	DFSP190R4WB25M	J34
6075728	DFSP195R4WB25M	J34
6075729	DFSP200R4WB25M	J34
6075741	DFSP205R4WB25M	J34
6075742	DFSP209R4WB25M	J34
6075743	DFSP210R4WB25M	J34
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6075747	DFSP230R4WB25M	J34
6075748	DFSP235R4WB25M	J34
6075749	DFSP239R4WB25M	J34
6075750	DFSP240R4WB25M	J34
6075751	DFSP245R4WB25M	J34
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6075788	DFSP245R5WB25M	J36
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6079880	DFSP255R4WB25M	J34–35
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6080033	EVSBR2020K0416040050C	C43
6080035	EVSBR2525M0516050060C	C43
6080037	EVSBL2020K0312035040C	C44
6080038	EVSBL2020K0416040050C	C44
6080039	EVSBL2525M0516050060C	C45
6080040	EVSBR2020K0416050060C	C43
6080051	EVSBL2020K0416050060C	C44
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6080059	EVSBL2525M0320100180C	C44
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6080412	DFSP390R5WB40M	J37
6080413	DFSP400R5WB40M	J37
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6082137	CNGN120408T02020 KBK45	B284
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6082140	CNGX120408T02020 KBK45	B287
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6082233	RNGN090400S02020 KBK45	B284
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6082236	RCGN090400T01015 KBK45	B288
6082237	DNGN120408S02020 KBK45	B284
6082238	DNGN120412S02020 KBK45	B284
6082239	SNGN090408S01015WCB KBK45	B285
6082240	SNGN090408S01015WCC KBK45	B285
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6082247	SNGX120412S02020 KBK45	B287
6082248	SNGX120416S02020 KBK45	B287
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6082250	TNGN160416S02020 KBK45	B286
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6083074	B269A02900KMG KCPK15	G68
6083075	B269A03400HP KCPK15	G68
6083076	B269A04100HP KCPK15	G68
6083077	B269A06400HP KCPK15	G69
6083078	B707A04200FBS KN15	G114
6083079	B707A04900FBS KN15	G114
6083097	VCGR160408 KCP25B	E34
6087904	5720VZ16HA025Z2R75	T89
6088510	TPUN220412 KCK15B	B171

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
6088651	KCGR110308L08 KCM15B	E29
6088652	VCMR160404 KCM15B	E33
6088653	VCMR160408 KCM15B	E33
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6097183	EVM50R0312A050060C	C52
6097184	EVM50R0312A060075C	C52
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6097197	EVM50L0320A250350C	C53
6097198	EVM50L0320A350999C	C53
6098863	B978F17500 KC7315	G149
6102279	LNPU221012PNSLHD2 KCPM40	S121, S123
6103457	TNMG160408MG KCP10B	B126
6104860	KSEM2835HPGM KCPM45	H46
6105048	TNMG160408CT KCPK05	B123
6105085	CPGH09T304 KCP25B	B188
6105089	CNMP160608 KCP25B	B56
6105091	CNMU120412RN KCP10B	B53
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6105095	SPUN120304 KCP25B	B169
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6105102	TPMR110308 KCP25B	B171
6105103	TPUN160308 KCP25B	B171
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6109122	SDCT120464ENLD2 KCSM40	T104, T111, U51
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6111469	OFKT07L6AFENGB KCPM40	S55
6111470	OFKT07L6AFSNHB KCPM40	S55
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6111672	SDET120412PDERGB2 KCPM40	T104, T111, U52
6111673	SDET120420SNGB2 KCPM40	T104, T111, U52
6111674	SDET1204PDSRGB2 KCPM40	T104, T111, U52
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6111677	SEKT1404AESNGP2 KCPM40	S42
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6126889	RQBB1600X4CN KCPM15	O36
6126890	RQBB2000X4CN KCPM15	O36
6126911	RQBB2500X4CN KCPM15	O36
6126912	RKDF1000X4CQE KCSM15	O35
6126913	RKDF1200X4CQF KCSM15	O35
6126914	RKDF1600X6CQF KCSM15	O35
6126915	RKDF2000X6CQF KCSM15	O35
6126916	RKDF2500X6CQF KCSM15	O35
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6127072	FSDE1000X9CQJ KC643M	O43
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6127088	FSDE2500XJCQN KC643M	O43
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6127199	FMDF1200X6CQF KCPM15	O42
6127200	FMDF1600X6CQF KCPM15	O42
6127286	RQDB1000X4CV KCPM15	O34
6127287	RQDB1200X4CV KCPM15	O34
6127288	RQDB1600X4CV KCPM15	O34
6127289	RQDB2000X4CV KCPM15	O34
6127290	RQDB2500X5CV KCPM15	O34
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6127383	XRDA1000X4CRM KCPM15	O49
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6127385	XRDA1200X5CRK KCPM15	O49
6127386	XRDA1200X5CRM KCPM15	O49
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6128138	EDCT180508PDERGD KCPM40	T74
6128139	EDCT180512PDERGD KCPM40	T74
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6130644	SEPT1404AEENGB2 KCPM40	S43
6130645	SEPT1404AESNGB2 KCPM40	S43
6130740	UADE0400A4BV KCPM15	P17
6130871	UADE0400B4BV KCPM15	P17
6130874	UADE0500A4BV KCPM15	P17
6130875	UADE0500B4BV KCPM15	P17
6130878	UADE1400A4BV KCPM15	P17

Dizin

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
6130879	UADE1400B4BV KCPM15	P17
6131423	LNGU110412SRGEM KCK15	T9
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6133107	B976F15400 KC7315	G145
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6134055	MILL16D100Z100N08W	S32
6134056	MILL16D125Z140N08W	S32
6134057	MILL16D160Z160N08W	S32
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6134059	MILL16D250Z240N08W	S32
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6134186	M4D032Z05A32LN11L110	T6, T11
6134187	M4D032Z06M16LN11	T4
6134188	M4D040Z04S16LN11	T7, T11
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6134231	M4D050Z07S22LN11	T7, T11
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6143989	3CH0800MX028A KC633M	Q20
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6145375	1-8NPTF-JIC	C75
6145376	G18-JIC	C75
6145377	M10-JIC	C75
6145378	M8-JIC	C75
6145379	JICM-JICF-ELB	C75
6145380	COOL-HOSE-200	C75
6145381	COOL-HOSE-300	C75
6145382	M6-JIC	C75
6145383	JICM-JICM-STR	C75
6145386	G14-G18-RED	C75
6146871	3CH0250DK003A KC633M	Q18
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6146880	3CH0700DK008A KC633M	Q18
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6146882	3CH1000DK011A KC633M	Q18
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6151030	ABDE1200X3CQJ K600	029
6151031	ABDE1200X3CQL K600	029
6151032	ABDE1600X3CQG K600	029
6151033	ABDE1600X3CQJ K600	029
6151034	ABDE1600X3CQK K600	029
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6151066	ABDF2000X2CU K600	028
6151491	VDIB1M302040C	C67
6151492	VDIB1M402544C	C67
6151493	VDIB2M302040C	C67
6151494	VDIB2M402544C	C67
6151495	VDIB3M302040C	C68
6151497	VDIB3M402544C	C68
6151498	VDIB4M302040C	C68
6151499	VDIB4M402544C	C68
6151500	VDIB5M302040C	C69
6151511	VDIB5M402544C	C69
6151512	VDIB6M302040C	C69
6151513	VDIB6M402544C	C69
6151514	VDIC1M302070C	C70
6151515	VDIC1M402585C	C70
6151516	VDIC2M302070C	C70
6151517	VDIC2M402585C	C70
6151518	VDIC3M302070C	C71
6151519	VDIC3M402585C	C71
6151520	VDIC4M302070C	C71
6151521	VDIC4M402585C	C71
6151522	CNMG120402LF KCP25B	B50
6151523	CNMG120404LF KCP25B	B50
6151524	CNMG120408LF KCP25B	B50
6151525	CNMG160612MG KCP25B	B57
6151527	CNMG190612MG KCP25B	B57
6151528	CNMM120408MR KCP25B	B54
6151529	CNMM160612MR KCP25B	B54
6151530	CNMM160616MR KCP25B	B54
6151562	DNMP110408K KCP25B	B83
6151565	VNMG160408LF KCP25B	B144
6151567	RCMH190600K KCP10B	B223
6152227	MILL16D315Z440N08WSC	S33
6152228	MILL16D355Z480N08WSC	S33
6152229	MILL16D400Z560N08WSC	S33
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6152251	D315CFA	S33
6152252	D355CFA	S33
6152253	D400CFA	S33
6152254	D500CFA	S33
6159024	MILL16D050Z040N08SC	S34
6159025	MILL16D063Z040N08SC	S34
6159026	MILL16D063Z050N08SC	S34
6159027	MILL16D080Z050N08SC	S34
6159028	MILL16D080Z070N08SC	S34
6159029	MILL16D100Z060N08SC	S34
6159030	MILL16D100Z080N08SC	S34
6159061	MILL16D125Z080N08SC	S34
6159062	MILL16D125Z100N08SC	S34
6159063	MILL16D160Z100N08SC	S34
6159064	MILL16D160Z120N08SC	S34
6159065	MILL16D200Z100N08SC	S34
6159066	MILL16D200Z140N08SC	S34
6159067	MILL16D250Z120N08SC	S34
6159068	MILL16D250Z160N08SC	S34
6160117	5720VZ16HA050Z4R75	T89
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6162809	EDPT180532PDERHD KCPM40	T75
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6162870	KSEM2024SPLM KCMS35	H52
6163121	KSEM2250SPLM KCMS35	H52
6163122	KSEM2350SPLM KCMS35	H52
6163123	KSEM2450SPLM KCMS35	H52
6163124	KSEM2525SPLM KCMS35	H52
6163125	KSEM2530SPLM KCMS35	H52
6163126	KSEM2550SPLM KCMS35	H52
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6163131	KSEM2800SPLM KCMS35	H52
6163132	KSEM2850SPLM KCMS35	H52
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6163146	KSEM3700SPLM KCMS35	H53
6163147	KSEM3800SPLM KCMS35	H53
6163148	KSEM3850SPLM KCMS35	H53
6163149	KSEM3900SPLM KCMS35	H53
6163150	KSEM3950SPLM KCMS35	H53
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6163381	KTIP1010FEGM KCPM45	H29
6163382	KTIP1170FEGM KCPM45	H29
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6163413	KSEM3750FEGM KCPM45	H55
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6163415	KSEM3950FEGM KCPM45	H55
6163504	KSEM2360HPGM KCPM45	H45
6163505	KSEM1965HPGM KCPM45	H45
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6165214	B978F20000 KC7315	G149
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6165392	RNGJ1204M0SGDJ KCSM40	V57
6165393	RNPJ1605M0SGD KCSM40	V61
6165397	LNGU110408SRGE KCSM40	T9
6165400	LNGU15T608SRGE KCSM40	T19
6165421	LNGU15T612SRGE KCSM40	T19
6165422	LNGU15T608ERGE KCSM40	T18
6165423	LNGU15T612ERGE KCSM40	T18
6165759	HNPJ0604ANSNGD KCSM40	S7, S13, S16
6165760	HNPJ0604ANSNHD KCSM40	S7, S13, S16
6165861	HNPJ060432ANSNHD KCSM40	S7, S13, S16
6165862	HNGJ0604ANENLD KCSM40	S6, S12, S15
6165863	XNGJ0604ANENLD3W KCSM40	S12
6165864	HNGJ0604ANSNHD KCSM40	S7, S12, S16
6167618	FSDE1000A9BCE KC643M	P92
6167619	FSDE1000A9BCG KC643M	P92
6167620	FSDE1200A9BCE KC643M	P92
6167621	FSDE1200A9BCG KC643M	P92
6167622	FSDE1200A9BCL KC643M	P92
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6167631	FSDE2000AFBCP KC643M	P92
6167633	FSDE2500AJBCG KC643M	P92
6167634	FSDE2500AJBCL KC643M	P92
6167635	FSDE2500AJBCP KC643M	P92
6168013	SDCT1204PDERLD2 KCSM40	T104, T111, U51
6168014	SDCT120412PDERLD2 KCSM40	T104, T111, U51
6168015	SDET120412PDERGB KCSM40	T105, T112, U51
6168016	SDCT120416ENLD2 KCSM40	T104, T111, U51
6168017	SDCT120432ENLD2 KCSM40	T104, T111, U51
6168018	SDET1204PDERGB2 KCSM40	T104, T111, U52
6168019	SDET120464ENGB KCSM40	T105, T112, U51
6168020	SDET120448SNGB KCSM40	T105, T112, U51
6168101	SDET120448ENGB KCSM40	T105, T112, U51
6168102	SDET120432SNGB KCSM40	T105, T112, U51
6168103	SDET120432ENGB KCSM40	T105, T112, U51
6168104	SDET120416SNGB KCSM40	T105, T112, U51
6168105	SDET120416ENGB KCSM40	T105, T112, U51
6168106	SDET120412PDSRGB KCSM40	T105, T112, U51
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6171519	EDCT140412PDERGD KCSM40	T52, T61
6171520	EDCT140416PDERGD KCSM40	T52, T61
6171591	EDCT140431PDERGD KCSM40	T52, T61
6172122	EDPT140408PDERHD KCSM40	T53, T62
6172123	EDPT140412PDERHD KCSM40	T53, T62
6172124	EDPT140416PDERHD KCSM40	T53, T62
6172125	EDPT140420PDERHD KCSM40	T53, T62
6172126	EDPT140424PDERHD KCSM40	T53, T62
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6172129	EDPT140408PDSRGD KCSM40	T54, T63
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6172191	EDPT140416PDSRGD KCSM40	T54, T63
6172192	EDPT140408PDSRGE KCSM40	T53, T62
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6172880	T838NC06250-11R2B-D6 KSU31	M47
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6172968	T838M020X040R6H-D1 KSU31	M43
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6172970	T838M030X050R6H-D1 KSU31	M43
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6173052	T838MF120X100R6H-D4 KSU31	M43
6173053	T838MF120X125R6H-D4 KSP39	M43
6173054	T838MF120X125R6H-D4 KSU31	M43
6173055	T838MF120X150R6H-D4 KSP39	M43
6173056	T838MF120X150R6H-D4 KSU31	M43
6173057	T838M120X175R6H-D6 KSP39	M43
6173058	T838M120X175R6H-D6 KSU31	M43
6173059	T838MF140X100R6H-D4 KSP39	M43
6173060	T838MF140X100R6H-D4 KSU31	M43
6173061	T838MF140X125R6H-D4 KSP39	M43
6173062	T838MF140X125R6H-D4 KSU31	M43
6173063	T838MF140X150R6H-D4 KSP39	M43
6173064	T838MF140X150R6H-D4 KSU31	M43
6173065	T838M140X200R6H-D6 KSP39	M43
6173066	T838M140X200R6H-D6 KSU31	M43
6173068	T838MF160X150R6H-D4 KSP39	M43
6173069	T838MF160X150R6H-D4 KSU31	M43
6173070	T838M160X200R6H-D6 KSP39	M43
6173071	T838NF06250-18R2B-D4 KSP39	M47
6173072	T838NF06250-18R2B-D4 KSU31	M47
6173073	T838NC07500-10R2B-D6 KSP39	M47
6173074	T838NC07500-10R2B-D6 KSU31	M47
6173075	T838NF07500-16R2B-D4 KSP39	M47
6173076	T838NF07500-16R2B-D4 KSU31	M47
6173077	T838NC08750-9R2B-D6 KSP39	M47
6173078	T838NC08750-9R2B-D6 KSU31	M47
6173079	T838NF08750-14R2B-D4 KSP39	M47
6173080	T838NF08750-14R2B-D4 KSU31	M47

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6173081	T838NC10000-8R2B-D6 KSP39	M47
6173082	T838NC10000-8R2B-D6 KSU31	M47
6173083	T838NF10000-12R2B-D4 KSP39	M47
6173084	T838NF10000-12R2B-D4 KSU31	M47
6173085	T838NC11250-7R2B-D6 KSP39	M48
6173086	T838NC11250-7R2B-D6 KSU31	M48
6173087	T838NF11250-12R2B-D4 KSP39	M48
6173088	T838NF11250-12R2B-D4 KSU31	M48
6173089	T838NC12500-7R2B-D6 KSP39	M48
6173090	T838NC12500-7R2B-D6 KSU31	M48
6173091	T838NF12500-12R2B-D4 KSP39	M48
6173092	T838NF12500-12R2B-D4 KSU31	M48
6173093	T838NC13750-6R2B-D6 KSP39	M48
6173094	T838NC13750-6R2B-D6 KSU31	M48
6173095	T838NF13750-12R2B-D4 KSP39	M48
6173096	T838NF13750-12R2B-D4 KSU31	M48
6173097	T838NC15000-6R2B-D6 KSP39	M48
6173098	T838NC15000-6R2B-D6 KSU31	M48
6173099	T838NF15000-12R2B-D4 KSP39	M48
6173100	T838NF15000-12R2B-D4 KSU31	M48
6173101	T838NC17500-5R2B-D6 KSP39	M48
6173102	T838NC17500-5R2B-D6 KSU31	M48
6173103	T838NC20000-4,5R2B-D6 KSP39	M48
6173104	T838NC20000-4,5R2B-D6 KSU31	M48
6173111	T838M160X200R6H-D6 KSU31	M43
6173112	T838MF180X150R6H-D4 KSP39	M43
6173113	T838MF180X150R6H-D4 KSU31	M43
6173114	T838MF180X200R6H-D4 KSP39	M43
6173115	T838MF180X200R6H-D4 KSU31	M43
6173116	T838M180X250R6H-D6 KSP39	M43
6173117	T838M180X250R6H-D6 KSU31	M43
6173118	T838MF200X150R6H-D4 KSP39	M43
6173119	T838MF200X150R6H-D4 KSU31	M43
6173120	T838MF200X200R6H-D4 KSP39	M43
6173131	T838MF200X200R6H-D4 KSU31	M43
6173132	T838M200X250R6H-D6 KSP39	M44
6173133	T838M200X250R6H-D6 KSU31	M44
6173134	T838MF220X150R6H-D4 KSP39	M44
6173135	T838MF220X150R6H-D4 KSU31	M44
6173136	T838MF220X200R6H-D4 KSP39	M44
6173137	T838MF220X200R6H-D4 KSU31	M44
6173138	T838M220X250R6H-D6 KSP39	M44
6173139	T838M220X250R6H-D6 KSU31	M44
6173140	T838MF240X150R6H-D4 KSP39	M44
6173141	T838MF240X150R6H-D4 KSU31	M44
6173142	T838MF240X200R6H-D4 KSP39	M44
6173143	T838MF240X200R6H-D4 KSU31	M44
6173144	T838M240X300R6H-D6 KSP39	M44
6173145	T838M240X300R6H-D6 KSU31	M44
6173146	T838MF270X150R6H-D4 KSP39	M44
6173147	T838MF270X150R6H-D4 KSU31	M44
6173148	T838M270X300R6H-D6 KSP39	M44
6173149	T838M270X300R6H-D6 KSU31	M44
6173150	T838MF300X150R6H-D4 KSP39	M44
6173151	T838MF300X150R6H-D4 KSU31	M44
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6173179	T838M520X500R6H-D6 KSU31	M44
6173240	T838NC#06-32R2B-D1 KSP39	M47
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6173262	T838NF#06-40R2B-D1 KSP39	M47
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6173268	T838NC#10-24R2B-D1 KSP39	M47
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6173270	T838NF#10-32R2B-D1 KSP39	M47
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6173272	T838NC#12-24R2B-D1 KSP39	M47
6173273	T838NC#12-24R2B-D1 KSU31	M47
6173274	T838NF#12-28R2B-D1 KSP39	M47
6173275	T838NF#12-28R2B-D1 KSU31	M47
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6173279	T838NC02500-20R2B-D6 KSU31	M47
6173280	T838NF02500-28R2B-D1 KSP39	M47
6173281	T838NF02500-28R2B-D1 KSU31	M47
6173282	T838NF02500-28R2B-D4 KSP39	M47
6173283	T838NF02500-28R2B-D4 KSU31	M47
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6173303	T838NC03750-16R2B-D6 KSU31	M47
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6173307	T838NC04375-14R2B-D6 KSU31	M47
6173308	T838NF04375-20R2B-D4 KSP39	M47
6173309	T838NF04375-20R2B-D4 KSU31	M47
6173310	T838NC05000-13R2B-D6 KSP39	M47
6173311	T838NC05000-13R2B-D6 KSU31	M47
6173312	T838NF05000-20R2B-D4 KSP39	M47
6173313	T838NF05000-20R2B-D4 KSU31	M47
6173786	LNPU221012PNSRHD2 KCSM40	S121, S123
6174999	FSDE1200A9BCN KC643M	P92
6175000	FSDE1600ABBCN KC643M	P92
6175756	EDPT10T308PDERHD KCSM40	T36
6175757	EDPT10T312PDERHD KCSM40	T36
6175758	EDPT10T316PDERHD KCSM40	T36
6175759	EDPT10T320PDERHD KCSM40	T36
6175760	EDPT10T324PDERHD KCSM40	T36
6176091	EDPT10T331PDERHD KCSM40	T36
6176092	EDPT10T308PDSRGE KCSM40	T36
6176093	EDPT10T312PDSRGE KCSM40	T36
6176094	EDPT10T316PDSRGE KCSM40	T36
6176095	EDPT10T331PDSRGE KCSM40	T36
6176096	EDCT10T308PDERLD KCSM40	T35
6176097	EDCT10T312PDERLD KCSM40	T35
6176098	EDCT10T316PDERLD KCSM40	T35
6176099	EDCT10T324PDERLD KCSM40	T35
6176100	EDCT10T331PDERLD KCSM40	T35
6177823	SNHJ120608SNGD KCSM40	S63
6177924	OFKT06L5AFENLB KCSM40	S50
6177925	OFKT06L5AFENGB KCSM40	S50
6177926	OFKT06L5AFSNHB KCSM40	S50
6177927	OFPT06L5AFSNHB KCSM40	S51
6177928	OFKT07L6AFENLB KCSM40	S54
6177929	OFKT07L6AFENGB KCSM40	S55
6177930	OFKT07L6AFSNHB KCSM40	S55
6178011	OFPT07L6AFSNHB KCSM40	S55
6178103	HNGJ0905ANENLD KCSM40	S18, S22
6178104	HNGJ0905ANSNGD KCSM40	S18, S23
6178105	HNGJ0905ANSNHD KCSM40	S19, S23
6178106	HNGJ090543ANSNHD KCSM40	S19, S23
6178107	XNGJ0905ANSNGD3W KCSM40	S22
6178108	HNPJ0905ANSNHD KCSM40	S19, S24
6178109	HNPJ090543ANSNHD KCSM40	S19, S24
6178110	HNPJ1307ANSNHD KCSM40	S27
6178121	LNPU2410ANSRHD2 KCSM40	S117
6178232	DFT030304GD KC7140	J87
6178233	DFT05T308GD KC7140	J87
6178234	DFT06T308GD KC7140	J87
6178235	DFT070408GD KC7140	J87
6178236	DFT090508GD KC7140	J87
6178237	SDHT120412EN422 KCSM40	T119
6178238	SDHT120412EN423 KCSM40	T119
6178239	SDMT120412EN41 KCSM40	T120
6178240	SDMW120412TN KCSM40	T120
6178251	SDHT09T308EN422 KCSM40	T116
6178252	SDHT09T308EN423 KCSM40	T116
6178253	SDMT09T308EN41 KCSM40	T117
6178254	SDMW09T308TN KCSM40	T117
6179709	EVSCFL1010K1B10	C42
6179710	EVSCFL1010K1F10	C42
6179755	EVSCTR1212K0316C	C39
6179756	EVSCTL1212K0316C	C40
6179757	EVSCTR1212K1B16	C39
6179758	EVSCTR1212K1F16	C39
6179759	EVSCTR1212K0216	C39
6179760	EVSCTL1212K1B16	C40
6179761	EVSCTL1212K1F16	C40
6179762	EVSCTL1212K0216	C40
6179763	EVSCFR1010K1B10	C41
6179764	EVSCFR1010K1F10	C41
6179765	EVSCFR1010K0210	C41
6179766	EVSCFR1212K1B10	C41
6179767	EVSCFR1212K1B13	C41
6179768	EVSCFR1212K1F10	C41
6179769	EVSCFR1212K1F13	C41
6179770	EVSCFR1212K0210	C41
6179771	EVSCFR1212K0216	C41
6179772	EVSCFR1212K0310C	C41
6179773	EVSCFR1212K0316C	C41
6179774	EVSCFR1616K1B16	C41
6179775	EVSCFR1616K1F16	C41
6179776	EVSCFR1616K0216	C41
6179777	EVSCFR1616K0316C	C41
6179778	EVSCFR2020K1B16	C41
6179779	EVSCFR2020K1F16	C41
6179780	EVSCFR2020K0216	C41
6179781	EVSCFR2020K0316C	C41
6179921	EVSCFL1010K0210	C42
6179922	EVSCFL1212K1B10	C42
6179923	EVSCFL1212K1B13	C42
6179924	EVSCFL1212K1F10	C42
6179925	EVSCFL1212K1F13	C42
6179926	EVSCFL1212K0210	C42
6179927	EVSCFL1212K0216	C42
6179928	EVSCFL1212K0310C	C42
6179929	EVSCFL1212K0316C	C42
6179930	EVSCFL1616K1B16	C42
6179931	EVSCFL1616K1F16	C42
6179932	EVSCFL1616K0216	C42
6179933	EVSCFL1616K0316C	C42
6179934	EVSCFL2020K1B16	C42
6179935	EVSCFL2020K1F16	C42
6179936	EVSCFL2020K0216	C42
6179937	EVSCFL2020K0316C	C42
6180436	DNMG110412CT KCP10B	B76
6181213	LNUX191940S-WT5 KCP25B	E53
6181214	KNUX150405R20 KCP25B	E32
6181215	SNMX190640S-WT5 KCP25B	E53
6181216	KCUX110305R15 KCP25B	E32
6181217	KNUX150405R25 KCP25B	E31
6181311	CNMM190740RRP KCP10B	E53
6181316	RCMX2507M076 KCP25B	E53
6183779	RIQB6C4500S KBHK10	K56
6183780	RIQB7C4500S KBHK10	K56
6183831	RIQ07C4500S KBHK10	K56
6183832	RIQ08C4500S KBHK10	K56
6183833	RIQ09C4500S KBHK10	K56
6183834	RIQB6C4500S KBHK15	K56
6183836	RIQB7C4500S KBHK15	K56
6183837	RIQ07C4500S KBHK15	K56
6183838	RIQ08C4500S KBHK15	K56
6183839	RIQ09C4500S KBHK15	K56
6185769	XPPT060308ERD41 KCSM40	V7
6185770	XEPT160512ERD41 KCSM40	V31
6185921	XDPT090408ERD41 KCSM40	V15
6185922	XDPT090412ERD411 KCSM40	V15
6187383	SDPT1204PDERGB2 KCSM40	T105, T112, U52
6187384	SDPT1204PDSRGB2 KCSM40	T105, T112, U52
6187511	XPPW060310SRD KCPM40	V7
6187512	XPPW060310SRD KCPK30	V7
6187513	XPPW060310SRD KC522M	V7
6187514	XPPW060310SRD KC510M	V7
6187535	XDPW090412SRD KCPM40	V16
6187536	XDPW090412SRD KCPK30	V16
6187537	XDPW090412SRD KCK15	V16
6187538	XDPW090412SRD KC522M	V16
6187539	XDPW090412SRD KC510M	V16
6187714	XEPW160520SRD KCPM40	V31
6187715	XEPW160520SRD KCPK30	V31
6187716	XEPW160520SRD KCK15	V31
6187717	XEPW160520SRD KC522M	V31
6187806	XDPT120508ERD41 KCSM40	V23
6187808	XDPT120512ERD411 KCSM40	V24
6191237	KSDR100031E0W0S KD1400	S127
6191238	KSDR100031E0W0S KD1425	S127
6191356	RCGT2006M0ELF KCSM40	V83
6191357	RCGT2006M0SHF KCSM40	V83
6191557	XEPT160516ERD41 KCPM40	V31
6191558	XEPT160516ERD41 KCPK30	V31
6191559	XEPT160516ERD41 KC522M	V31
6191642	XDPT090412SRGP KCPM40	V16
6191643	XDPT090412SRGP KCPK30	V16
6191644	XDPT090412SRGP KC725M	V16
6191645	XDPT090412SRGP KC522M	V16
6197561	DTQ50140	S32–33
6200729	LNGU110416SRGEM KCK15	T9
6200730	LNGU110416SRGEM KCPK30	T9
6201021	LNGU110416SRGEM KC520M	T9
6201022	LNGU110416SRGEM KCPM40	T9
6201279	LNGU110404SRGE KC522M	T9
6201280	LNGU110404SRGE KCPM40	T9
6201291	LNGU110404SRGE KC510M	T9
6201292	LNGU110404ERLEJ KC422M	T8
6201351	LNGU110412ERGE KCSM40	T8
6201352	LNGU110412ERGE KC522M	T8
6201353	LNGU110412ERGE KCPM40	T8
6201354	LNGU110408ERGE KCSM40	T8
6202331	250C246RF60HN09C	S94
6202333	315Z328RF60HN09WSC	S94
6202340	ONPX080608SNGP KCK20	S36
6202371	ONPX080620SNHB KCK20	S36
6205876	BTQSW3L90	S32–33
6207836	KBDM250SD30	S126
6210796	HDHN070408SR KBK50	S112
6210797	SDHN1204ZZSN4W KBK50	S112
6210836	KCFMCA45SD12C	S111
6210837	KCFMCA45HD07	S111
6210838	HDHN070408ER KC514M	S112
6210839	SDHN1204ZZEN4W KC514M	S112
6210840	HDHN070408SR KY3500	S112
6213970	M4-11KITD16Z2A16SGEKCPM40	T11
6214071	M4-11KITD20Z2B20SGEKCPM40	T11
6214072	M4-11KITD20Z3A20SGEKCPM40	T11
6214073	M4-11KITD25Z3B25SGEKCPM40	T11
6214074	M4-11KITD25Z4A25SGEKCPM40	T11
6214075	M4-11KITD32Z4B32SGEKCPM40	T11
6214076	M4-11KITD32Z5A32SGEKCPM40	T11
6214077	M4-11KITD40Z4S16SGEKCPM40	T11
6214078	M4-11KITD40Z6S16SGEKCPM40	T11
6214079	M4-11KITD50Z5S22SGEKCPM40	T11
6214080	M4-11KITD50Z7S22SGEKCPM40	T11
6214081	M4-11KITD63Z9S22SGEKCPM40	T11
6214082	M4-11KITD16Z2A16EGEKC725M	T11
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6214085	M4-11KITD25Z3B20EGEKC725M	T11
6214086	M4-11KITD25Z4A25EGEKC725M	T11
6214087	M4-11KITD32Z4B32EGEKC725M	T11
6214088	M4-11KITD32Z5A32EGEKC725M	T11
6214089	M4-11KITD40Z4S16EGEKC725M	T11
6214090	M4-11KITD40Z6S16EGEKC725M	T11
6214091	M4-11KITD50Z5S22EGEKC725M	T11
6214092	M4-11KITD50Z7S22EGEKC725M	T11
6214093	M4-11KITD63Z9S22EGEKC725M	T11
6224238	KCFM080R08HD07W2	S110
6224239	KCFM100R08HD07W2	S110
6224240	KCFM125R10HD07W2	S110

Dizin

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
6224411	KCFM160R12HD07W4	S110
6224412	KCFM200R16HD07W4	S110
6224413	KCFM250R24HD07W6	S110
6226803	LNUX191940RRSM KCP25B	E52
6228171	NG2031L KCK20B	C155
6228172	NG2031R KCK20B	C154
6228173	NG2041L KCK20B	C155
6228174	NG2041R KCK20B	C154
6228175	NG2047R KCK20B	C154
6228176	NG2062L KCK20B	C155
6228177	NG2062R KCK20B	C154
6228178	NG2094L KCK20B	C155
6228179	NG2094R KCK20B	C154
6228180	NG2125L KCK20B	C155
6228181	NG3047L KCK20B	C155
6228182	NG3047R KCK20B	C154
6228183	NG3062L KCK20B	C155
6228184	NG3062R KCK20B	C154
6228185	NG3072R KCK20B	C154
6228186	NG3078R KCK20B	C154
6228187	NG3088R KCK20B	C154
6228188	NG3094L KCK20B	C155
6228189	NG3094R KCK20B	C154
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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Dizin

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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Sipariş No.	Katalog No.	Sayfa(lar):
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6401856	EVSMR2525M0226C	C36
6401857	EVSMR2020K0222C	C36
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6406851	ONGX080620SNGP KCPK30	S35
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6406853	ONPX080608SNGP KCPK30	S36
6406854	ONPX080620SNHB KCPK30	S36
6408009	XADA1000X4CH60 KCPM15	O48
6408010	XADA1200X5CH60 KCPM15	O48
6408041	XADA1600X6CH60 KCPM15	O48
6432549	COOL-HOSE-200-FLEX	C75
6432550	COOL-HOSE-300-FLEX	C75

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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1-8NPTF-JIC	C75
1.10820R310	E14
1.10825L310	E14
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1.10825R700	E14
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1.18016R110	E15
1.18020L110	E15
1.18020R110	E15
1.18020R310	E15
1.18025L310	E15
1.18025L315	E15
1.18025L330	E16
1.18025R110	E15
1.18025R310	E15
1.18025R315	E15
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1.18032R315	E15
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1.38025R021	E16
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1.77125R300	E17
1.77132R400	E17
1.77225R301	E18
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1.78016R100	E18
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160C07RS45SE14EG	S41
160C07RS90RC20C	V82
160C07RS90RC20CHP	V82
160C08RS90RC20C	V82
160C08RS90RC20CHP	V82
160C08RS90SD12DG	T102
160C10RP70SP15C2WFP	S79
160C10RP90BG15C10WHPM	S146
160C10RP90BG15C2WPM	S144
160C10RP90SP15C2WFP	S82
160C10RS45SE14EG	S41
160C10RS90ED18D	T72
160C10RS90SD12PL	V139
160C11RS90ED14D	T50
160C12RP00MD10CF	S68
160C12RP70SP12C3WFP	S72
160C12RP90SP12C3WFP	S76
160C12RS90ED18D	T72
160C12RS90SD12DG	T102
160C164RF60HN09C	S94
160C16RP70SP15C4WFP	S79
160C18RP70SP12C3WFP	S72
160C18RP90SP12C3WFP	S76
160C20RP00MD10CF	S68
160C22RF45HN09C	S89
160C24RF84SN12B	S102
160C24RF84SN12B3W	S103
160H10LK90SD12N18K	U41
160H10LK90SP10N14K	U28
160H10NK90SD12N18K	U42
160H10NK90SD12N20K	U43
160H10NK90SP10N14K	U30
160H10NK90SP10N16K	U31
160H10RK90SD12N18K	U40
160H10RK90SP10N14K	U27
160H11LP90SP10	U25
160H11RP90SP10	U25
160H12LP90SD12	U38
160H12NP90SP10N16K	U26
160H12RP90SD12	U38
160H14NP90SD12N20K	U39
160H15NS90LN12N10	U17
160H15NS90LN12N12	U17
160H16NS90LN12N06	U17
160Y10LK90SD12N18K	U46
160Y10LK90SP10N14K	U33
160Y10NK90SD12N18K	U48
160Y10NK90SD12N20K	U49
160Y10NK90SP10N14K	U34
160Y10NK90SP10N16K	U35
160Y10RK90SP10N14K	U32
160Y15RS90LN12N10	U18
160Y16RS90LN12N06	U18
160Y16RS90LN12N08	U18
169.974	J47
16A02R025A16ED10	T31
16A02R025A16ED10-170	T32
16A02R025A16ED10R31-170	T32
16A02R025B16ED10	T30
16A02R025M08ED10	T29
16A03R020A16ED07	T24
16ERAG60 KC5025	D53
16ERG55 KC5025	D52
170.000	K72
170.002	K47
170.003	E14–18, E49, E55, I14, K47, S68, S72, S76, S79, S82, S143–147
170.004	E16–18, J79, K44–47
170.005	I14, J80, K44–46, U8
170.006	J79–80, K44–46
170.008	J79–81
170.023	J10–15, J23, J25, J27, J29, J31, J33, J35, J37, U13
170.024	I23–24, J23, J25, J27, J29, J31, J33, J35, J37, J45–46, J98
170.025	I14, I23–24, J23, J25, J27, J29, J31, J33, J35, J37, J45–46, J98, S4–5, S8–10, S14, S17, S20–21, U13, V46–49, V53–56, V64
170.026	J45, V60
170.027	J10–15
170.028	I14, J10–12, J23, J25, J27, J29, J31, J33, J35, J37, J98
170.135	K47
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170.270	H58, H63, H65
170.271	H65
170.272	H58, H63, H65
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170.274	H58, H63, H65
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170.276	H58, H63, H65
170.277	H65
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170.309	H31–32
170.314	H31–32
170.345	H98
170.346	H98
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170.356	H98–99
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170.370	J23, J25, J31, J33, J35, J37
17X1R022B16STN16N	W40
18A02R028A16ED10-170	T32
190.076	I24
190.116	J67
190.195	I24
190.371	I24
190.458	J67
191.282	K72

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191.375	J45
191.405	B70, B115–119, B199, B202, B220–221, B240–242, B260–263, B376–378
191.406	B70–73, B92, B115–121, B139–142, B183, B229, B235–237, B260–263, B375, B378
191.407	B70–73, B92–93, B115–117, B119, B139–141, B183, B235, B378
191.698	H98, J23, J25, J27, J29, J45–46, J74–75
191.725	I14, V153
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191.916	C41–42, H98–99, J23, J25, J27, J29, J31, J33, J35, J37, J75, J98
191.924	H98, J23, J25, J27, J29, J31, J33, J35, J37, J45–46, J74–75, J98, V153
192.057	I24
192.111	J74–75
192.112	J74–75
192.126	J81
192.156	J77–79
192.157	J77–80
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192.416	J10–15, J67
192.419	J77–79
192.420	J77–79
192.421	J77–80
192.422	J77–79
192.423	J77–80
192.424	J77, J79–81
192.425	J77, J79–81
192.426	J80–81
192.432	H98, I14, J10–12, J23, J25, J27, J29, J31, J33, J35, J37, J67, J74–75, J98
192.433	J23, J25, J27, J29
192.529	U13
192.530	U13
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192.592	J67, J74
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192.759	J81
192.888	I14
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193.113	I24
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193.115	I24
193.116	I24
193.281	J10–15, J23, J25, J31, J33, J35, J37
193.297	C118
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193.371	J77–78
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193.390	V111–114, V129
193.391	V111–114, V128–130
193.392	V111–115, V128–130
193.393	V111–115, V128–130
193.394	V113–115, V130
193.395	V113–115
193.397	J67
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193.491	J23, J25, J27, J29, J31, J33, J35, J37
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193.525	H102–103
193.526	H102–103
193.531	S25
193.537	H102–103
193.545	H102–103
199.123	H64
19X1R023B20STN16T	W42
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200C09RS90RC20CHP	V82
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200J18NS90LN12N08	U17
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20A02R032A20ED10R31-170	T32
20A02R035M10SED14	T47
20A02R039A20SED14	T49
20A02R039B20SED14	T48
20A02R050A20SED14-170	T49
20A03R028A20ED10	T31
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20MHC160M	G85
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250C246RF60HN09C	S94
250C30RP00MD10CF	S68
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250Y18NK90SP10N16K	U35
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25A02R044A25SED14	T49
25A02R044A25SED18	T71
25A02R044A25SED18-150	T71
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25A02R044B25SED18	T70
25A02R050A25SED14-170	T49
25A02R050A25SED18-170	T71
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25A03R040A25ED10R31-200	T32
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25A03R044B25SED14	T48
25A03R050A25SED14-170	T49
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25A04R040A25ED10R31-200	T32
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25MHC120M	G85
25MHC140M	G85
25MHC160M	G85
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26X2R043B25STN16D	W43
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2CH1200MX075B KC633M	Q10
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2CH1400MR032B KC633M	Q10
2CH1400MX075A KC633M	Q10
2CH1400MX075B KC633M	Q10

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2CH1500DD026A KC633M	Q8
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2CH2000MR038B KC633M	Q10
2CH2000MX075A KC633M	Q10
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3.37042R320	I14
3.37042R820	I14
3.37051R320	I14
3.37051R820	I14
3.37052R320	I14
3.37052R820	I14
3.37060R720	I23
3.37061R320	I14
3.37061R820	I14
3.37062R320	I14
3.37062R820	I14
3.37071R320	I14
3.37071R820	I14
3.37080R720	I23
3.37081R320	I14
3.37081R820	I14
3.37091R320	I14
3.37091R820	I14
3.37092R320	I14
3.37092R820	I14
3.37100R720	I23
3.37101R332	I14
3.37101R832	I14
3.37111R332	I14
3.37111R832	I14
3.37120R732	I23
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3.37121R832	I14
3.37131R332	I14
3.37131R832	I14
3.37140R732	I23
3.37141R332	I14
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3.37180R732	I23
3.37181R332	I14
3.37181R832	I14
3.37526R006	I24
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3.37530R010	I24
3.37532R012	I24
3.37534R014	I24
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3.41220R900 KMF	I16
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3.41220R904 KC7315	I16
3.42805R001 CS5	I27
3.42805R001 KC7215	I27
3.42805R001 KMF	I27
3.42805R021 KC7015	I27
3.42805R021 KC7315	I27
3.42805R081 KC7215	I27
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3.42807R081 KC7215	I27
3.76045R028V	J72–73
3.76050R028V	J72–73
3.76055R032V	J72–73
3.76058R032V	J72–73
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3.77000R080V	J74
3.77000R081V	J74
3.77000R082V	J74
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3.77000R084V	J74
3.77000R085V	J74
3.77000R086V	J74
3.77000R087V	J74
3.77000R088V	J74
3.77000R224V	J75
3.77000R227V	J75
3.77000R228V	J75
3.77000R229V	J75
3.77000R230V	J75
3.77000R231V	J75
3.77000R239V	J75
3.77000R248V	J75
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3.77000R251V	J75
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3.77000R253V	J75
3.77000R274V	J75
3.77000R276V	J75
3.77000R278V	J75
3.77000R280V	J75
3.77000R282V	J75
3.77000R284V	J75
3.77000R286V	J75
3.77000R288V	J75
3.90016ECGD KMF	U9
3.90016SNGB KC735M	U9
3.90016SNGB KCPK30	U9
3.90016SNGD KC735M	U9
3.90016SNGD KCPK30	U9
3.90022ECGD KMF	U9
3.90022SNGB KC735M	U9
3.90022SNGB KCPK30	U9
3.90022SNGD KC735M	U9
3.90022SNGD KCPK30	U9
3.90030ECGD KMF	U9
3.90030SNGB KC735M	U9
3.90030SNGB KCPK30	U9
3.90030SNGD KC735M	U9
3.90030SNGD KCPK30	U9
3.90040ECGD KMF	U9
3.90040SNGB KC735M	U9
3.90040SNGB KCPK30	U9
3.90040SNGD KC735M	U9
3.90040SNGD KCPK30	U9
302.009	J79
302.010	J79
302.011	J79
302.014	J81
30X1R052B25STN27N	W40
30X1R092B25STN27L	W41
315K18LK90SD12N18K	U41
315K18NK90SD12N18K	U42
315K18NK90SD12N20K	U43
315K20NK90SP10N16K	U31
315Y18NK90SD12N18K	U48
315Y18NK90SD12N20K	U49
315Y20NK90SP10N16K	U35
315Z328RF60HN09WSC	S94
32A02R040M16SED18	T69
32A02R050A32SED18-200	T71
32A03R039B32SSP10G	T97
32A03R040A32RP12L190	V71
32A03R040B32RP12	V70
32A03R040M16SED14	T47
32A03R040M16SED18	T69
32A03R050A25SED14	T49
32A03R050A25SED18	T71
32A03R050A32SED14	T49
32A03R050A32SED14-200	T49
32A03R050A32SED18	T71
32A03R050A32SED18-200	T71
32A03R050B32SED14	T48
32A03R050B32SED18	T70
32A04R040A32ED10	T31
32A04R040B32ED10	T30
32A04R040M16ED10	T29
32A04R040M16SED14	T47
32A04R048A32ED10-200	T32
32A04R048A32ED10R31-200	T32
32A04R050A25SED14	T49
32A04R050A32SED14	T49
32A04R050A32SED14-200	T49
32A04R050B32SED14	T48
32A05R040A32ED10	T31
32A05R040B32ED10	T30
32A05R040M16ED10	T29
32A05R048A32ED10-200	T32
32A05R048A32ED10R31-200	T32
32E03R045M16RP12	V70
32M2R040A25SSD12PL	V138
32M2R050M16SSD12PL	V137
32MHC060M	G85
32MHC070M	G85
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32MHC090M	G85
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32MHC110M	G85
32MHC120M	G85
32MHC130M	G85
32MHC140M	G85
32MHC150M	G85
32MHC160M	G85
34A03R050A32SED18-250	T71
35E04R050A32RP12L200	V71
35X1R055B32STNB38N	W41
360.510	I23
360.511	I23
360.513	I23
360.550	I23–24
360.551	H64, I23–24
360.630	I23, I26
360.631	I23, I26
360.632	I23, I26
360.633	I23, I26
360.634	I23
360.635	I23, I26
360.636	I23, I26
360.637	I26
360.660	H64
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360.663	H64
360.664	H64
360.665	H64
360.666	H64
360.667	H64
360.668	H64
360.669	H64
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364.010	H58–59, H61, H63, H98
364.011	H58–61, H63, H98
364.012	H58, H60–63, H98–99
364.013	H58, H60, H62–63, H99
364.015	H58, H60, H63, H99
364.016	H58–59, H61, H63, H98
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37X1R058B32STN27N	W40
37X1R098B32STN27L	W41
3CH0100MS004A KC633M	Q20
3CH0150MS004A KC633M	Q20
3CH0200DL006A KC633M	Q18
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3CH0200MS006A KC633M	Q20
3CH0250DK003A KC633M	Q18
3CH0250DK003B KC633M	Q18
3CH0250DL007A KC633M	Q18
3CH0250DL007B KC633M	Q18
3CH0250MS006A KC633M	Q20
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3CH0350DL007B KC633M	Q18
3CH0400DK005A KC633M	Q18
3CH0400DK005B KC633M	Q18

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
3CH0400DL008A KC633M	Q18
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4.96082-204	U13
4.96102-204	U13
4.96102-205	U13
4.96102-206	U13
4.96124-204	U13
4.96124-205	U13
4.96124-210	U13
4.96124-212	U13
4.96164-204	U13
4.96164-205	U13
4.96164-210	U13
4.96205-208	U13
4.96255-206	U13
4.96255-208	U13
4.97060116	U7
4.97060130	U7
4.97060140	U7
4.97080116	U7
4.97080122	U7
4.97080130	U7
4.97080140	U7
4.97101116	U7
4.97101122	U7
4.97101130	U7
4.97101140	U7
4.97123116	U7
4.97123122	U7
4.97123130	U7
4.97123140	U7
4.97164122	U7
4.97164130	U7
4.97164140	U7
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4.97254130	U7
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40A04R040M16SED14	T47
40A04R040M16SED18	T69
40A04R049B32SSP10G	T97
40A04R050A32SED14	T49
40A04R050A32SED14-200	T49
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40A04R050A32SED18-200	T71
40A04R050A32SED18-250	T71
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40A04R050B32SED18	T70
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40A04RS90ED14D	T50
40A04RS90RP12	V72
40A05R040M16SED14	T47
40A05R050A32SED14	T49
40A05R050A32SED14-200	T49
40A05R050B32SED14	T48
40A05RS90ED14D	T50
40A06R040M16ED10	T29
40A06RS90ED10D	T33
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40E03R045M16RP16	V77
40E04R045M16RP12	V70
40M3R040A32SSD12PL	V138
40M3R050M16SSD12PL	V137
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410.083	S143–147
410.084	E17–18, S79, S82
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420.080	S143–144
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420.104	S68
420.120	S68, S76, S79, S82, S102–103, S143–144, S146–147
420.160	S32, S34, S68, S72, S76, S79, S82, S143–144, S146
420.200	S10, S14, S17, S21, S25, S32, S34, S48, S53, S68, S72, S76, S79, S82, S102–103, S132, S143–144, S146, T17, T50, T72
42A04RS90RP12	V72
42A06R040M16ED10	T29
42X2R045B32STN27D	W43
460.716	J81
460.887	U8
460.888	U7–8
460.889	U7–8
460.890	U7–8
460.897	U7–8
460.898	U7–8
460.899	U7–8
46X1R100B40STNB38L	W41
470.232	S10, S14, S17, S21, S25, S32, S34, S48, S53, S68, S72, S76, S79, S82, S102–103, S143–144, S146, T50, T72
470.233	S17, S21, S25, S32, S34, S48, S53, S68, S72, S76, S79, S82, S102–103, S143–144, S146, T17, T50, T72
470.234	S21, S25, S34, S68, S72, S76, S79, S82, S102, S144, S146
470.235	S21, S25, S34, S68, S144
470.236	S21, S25
470.269	S132
470.270	S132
470.271	S132
470.272	S132
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479.100	S72, S76, S79, S82
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4CH0400DD011A KC633M	Q26
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4CH2000MR038B KC633M	Q28
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
5.34032-025115	J78
5.34032-025200	J78
5.34032-028115	J78
5.34032-028200	J78
5.34032-032125	J78
5.34050-025300	J78
5.34050-025450	J78
5.34050-028300	J78
5.34050-028450	J78
5.34050-032200	J78
5.34050-032350	J78
5.34050-032500	J78
5.34050-040148	J78
5.34050-040300	J78
5.34050-040450	J78
5.34050-040600	J78
5.34050-048168	J78
5.34050-048300	J78
5.34050-048450	J78
5.34050-048600	J78
5.34050-058186	J78
5.34050-058300	J78
5.34050-058450	J78
5.34050-058600	J78
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5.34128R028150	J77
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5.34132R032200	J77
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5.34170R070500	J77
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5.34180R080500	J77
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5.34280R032080	J77
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5.34280R058080	J77
5.34280R070150	J77
5.34350-090100	J81
5.36050-154040	J80
5.36050-154050	J80
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50A03R049A32PBG15S3WHPM	S145
50A03R060S63PBG15S3WHSM	S147
50A03R140S63SKE25	T81
50A03R80A32SKE25	T79
50A03RP90BG15CM	S143
50A03RP90BG15CPM	S144
50A03RS45SE14EG	S41
50A03RS90SD12DG	T102
50A04RP70SP12CFP	S72
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50A04RS90RP12	V72
50A04RS90RP16	V78
50A04RS90SD12DG	T102
50A04RS90SD12PL	V139
50A05RP70SP12CFP	S72
50A05RP90SP12CFP	S76
50A05RS90ED10D	T33
50A05RS90ED14D	T50
50A05RS90ED18D	T72
50A05RS90RP12	V72
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50A05RS90SD12PLHF	V139
50A05RS90SP10DG	T98
50A06RP70SP12CFP	S72
50A06RS90ED14D	T50
50A08RS90ED10D	T33
50A3RS90SD12L32	T109
50HC030M	G85
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Dizin

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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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B211A03100SGL KCMS15	G38
B211A03175SGL KCMS15	G38
B211A03200SGL KCMS15	G38
B211A03300SGL KCMS15	G38
B211A03400SGL KCMS15	G38
B211A03455SGL KCMS15	G38

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
B211A03500SGL KCMS15	G38
B211A03571SGL KCMS15	G38
B211A03600SGL KCMS15	G38
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B211A03734SGL KCMS15	G38
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B211A03861SGL KCMS15	G38
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Katalog No.	Sayfa(lar):
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B212A06350SGL KCMS15	G39

Katalog No.	Sayfa(lar):
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B221A06500HP KCPK15	G47
B221A06528HP KCPK15	G47
B221A06600HP KCPK15	G47
B221A06630HP KCPK15	G47
B221A06700HP KCPK15	G47

Katalog No.	Sayfa(lar):
B221A06746HP KCPK15	G47
B221A06800HP KCPK15	G47
B221A06900HP KCPK15	G47
B221A07000HP KCPK15	G47
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B221A13100HP KCPK15	G49
B221A13200HP KCPK15	G49
B221A13300HP KCPK15	G49

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
B221A13500HP KCPK15	G49
B221A13600HP KCPK15	G49
B221A13700HP KCPK15	G49
B221A13800HP KCPK15	G49
B221A13891HP KCPK15	G49
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B222A07500HP KCPK15	G47
B222A07541HP KCPK15	G47

Katalog No.	Sayfa(lar):
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B222A08200HP KCPK15	G47
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B224A04496HP KCPK15	G51
B224A04623HP KCPK15	G51
B224A04700HP KCPK15	G51
B224A04763HP KCPK15	G51
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B224A05106HP KCPK15	G52

Katalog No.	Sayfa(lar):
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B224A05410HP KCPK15	G52
B224A05500HP KCPK15	G52
B224A05558HP KCPK15	G52
B224A05600HP KCPK15	G52
B224A05616HP KCPK15	G52
B224A05791HP KCPK15	G52
B224A05944HP KCPK15	G52
B224A05954HP KCPK15	G52
B224A06000HP KCPK15	G52
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B224A06700HP KCPK15	G52
B224A06746HP KCPK15	G52
B224A06800HP KCPK15	G52
B224A06909HP KCPK15	G52
B224A07000HP KCPK15	G52
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B224A07366HP KCPK15	G52
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B224A17000HP KCPK15	G55
B224A17463HP KCPK15	G55
B224A17500HP KCPK15	G55
B224A18000HP KCPK15	G55
B224A19000HP KCPK15	G55

Katalog No.	Sayfa(lar):
B224A19050HP KCPK15	G55
B224A20000HP KCPK15	G55
B225A03000HP KCPK15	G51
B225A03048HP KCPK15	G51
B225A03100HP KCPK15	G51
B225A03175HP KCPK15	G51
B225A03200HP KCPK15	G51
B225A03264HP KCPK15	G51
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B225A03500HP KCPK15	G51
B225A03571HP KCPK15	G51
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B225A04700HP KCPK15	G51
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B225A08100HP KCPK15	G52
B225A08200HP KCPK15	G52
B225A08300HP KCPK15	G53
B225A08334HP KCPK15	G53

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
B225A08400HP KCPK15	G53
B225A08433HP KCPK15	G53
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B255A09400YPC KCK10	G59
B255A09500YPC KCK10	G60

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
B255A09525YPC KCK10	G60
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B269A19050HP KCPK15	G70

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
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B269A20000HP KCPK15	G70
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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B343S16670HPG KC7315	I10

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
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CNGX120708T01020FW KY3500	B295
CNGX120708T02020 KY1615	B311
CNGX120712T01020 KYS25	B332
CNGX120712T01020 KYS30	B332
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CNMG090308FF KC5010	B48
CNMG090308FN KCK05	B49
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CNMG090308FN KCP10B	B49

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
CNMG090308MN KCP10	B50
CNMG090308MN KCP10B	B50
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CNMG120402FN KT315	B49
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CNMG120402MS KCU25	B52
CNMG120404B K68	B47
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CNMG120412RP KCP25	B53
CNMG120412RP KCP25B	B53
CNMG120412RP KCP30	B53
CNMG120412RP KCP30B	B53

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
CNMG120412RP KCP40	B53
CNMG120412RP KCP40B	B53
CNMG120412RP KCPK05	B53
CNMG120412RP KCU10	B53
CNMG120412RP KCU25	B53
CNMG120412UN KCK05	B54
CNMG120412UN KCK05B	B54
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CNMG120412UP KCM25B	B54
CNMG120412UP KCU10	B54
CNMG120416CT KCP10	B48
CNMG120416FN KCP10	B49
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CNMG120416MG KCP10B	B57
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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DFT630R2WD50M	J45
DFT640R2WD50M	J45
DFT650R2WD50M	J45
DFT660R2WD50M	J45
DFT670R2WD50M	J45

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
DNMG150408FP KT315	B77
DNMG150408FW KCK15B	B78
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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KSEM1700HPGM KCPM45	H45
KSEM1700HPLM KC7320	H50
KSEM1700HPM KC7315	H40
KSEM1700PCM KC7135	H56, H87
KSEM1700SPLM KCMS35	H52
KSEM1707HPCCLM KC7410	H48
KSEM1707HPGM KC7315	H42
KSEM1707HPGM KCPM45	H45
KSEM1707HPLM KC7320	H50
KSEM1707HPM KC7315	H40
KSEM170R10WN20M	H61
KSEM170R3WN20M	H59
KSEM170R5WN20M	H59
KSEM170R7WN20M	H61
KSEM170SEFM	H64
KSEM1735HPGM KC7315	H42
KSEM1746HPCCLM KC7410	H48
KSEM1746HPGM KC7315	H42
KSEM1746HPGM KCPM45	H45
KSEM1746HPLM KC7320	H50
KSEM1746HPM KC7315	H40
KSEM1746SPLM KCMS35	H52
KSEM1750FEGM KCPM45	H54
KSEM1750HPCCLM KC7410	H48
KSEM1750HPGM KC7315	H42
KSEM1750HPGM KCPM45	H45
KSEM1750HPLM KC7320	H50
KSEM1750HPM KC7315	H40
KSEM1750PCM KC7135	H56
KSEM1750SPLM KCMS35	H52
KSEM175R10WN20M	H61
KSEM175R3WN20M	H59
KSEM175R5WN20M	H59
KSEM175R7WN20M	H61
KSEM175SEFM	H64
KSEM1760HPCCLM KC7410	H48
KSEM1760HPGM KC7315	H42
KSEM1770HPGM KC7315	H42
KSEM1775HPLM KC7320	H50
KSEM1780HPLM KC7320	H50
KSEM1786HPGM KC7315	H42
KSEM1786HPGM KCPM45	H45
KSEM1786HPLM KC7320	H50
KSEM1786HPM KC7315	H40
KSEM1790HPLM KC7320	H50
KSEM1800FEGM KCPM45	H54
KSEM1800HPCCLM KC7410	H48, H87
KSEM1800HPGM KC7315	H42
KSEM1800HPGM KCPM45	H45
KSEM1800HPLM KC7320	H50
KSEM1800HPM KC7315	H40
KSEM1800PCM KC7135	H56, H87
KSEM1800SPLM KCMS35	H52
KSEM180R10WN20M	H61
KSEM180R3WN20M	H59
KSEM180R5WN20M	H59
KSEM180R7WN20M	H61
KSEM180SEFM	H64
KSEM181R10WN25M	H61
KSEM181R1WN25F45M	H63
KSEM181R1WN25M	H58

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
KSEM181R5WN25M	H59
KSEM1826HPCCLM KC7410	H48
KSEM1826HPGM KC7315	H42
KSEM1826HPGM KCPM45	H45
KSEM1826HPLM KC7320	H50
KSEM1826HPM KC7315	H40
KSEM1830SPLM KCMS35	H52
KSEM1850FEGM KCPM45	H54
KSEM1850HPCCLM KC7410	H48
KSEM1850HPGM KC7315	H42
KSEM1850HPGM KCPM45	H45
KSEM1850HPLM KC7320	H50
KSEM1850HPM KC7315	H40
KSEM1850PCM KC7135	H56
KSEM1850SPLM KCMS35	H52
KSEM185R10WN25M	H61
KSEM185R3WN25M	H59
KSEM185R5WN25M	H59
KSEM185R7WN25M	H61
KSEM185SEFM	H64
KSEM1860HPGM KC7315	H42
KSEM1860HPLM KC7320	H50
KSEM1865HPGM KC7315	H42
KSEM1865HPGM KCPM45	H45
KSEM1865HPLM KC7320	H50
KSEM1865HPM KC7315	H40
KSEM1880HPGM KC7315	H42
KSEM1890HPLM KC7320	H50
KSEM1900FEGM KCPM45	H54
KSEM1900HPCCLM KC7410	H48, H87
KSEM1900HPGM KC7315	H42
KSEM1900HPGM KCPM45	H45
KSEM1900HPLM KC7320	H50
KSEM1900HPM KC7315	H40
KSEM1900PCM KC7135	H56, H87
KSEM1900SPLM KCMS35	H52
KSEM1905FEGM KCPM45	H54
KSEM1905HPCCLM KC7410	H48
KSEM1905HPGM KC7315	H42
KSEM1905HPGM KCPM45	H45
KSEM1905HPLM KC7320	H50
KSEM1905HPM KC7315	H40
KSEM1905SPLM KCMS35	H52
KSEM190R10WN25M	H61
KSEM190R3WN25M	H59
KSEM190R5WN25M	H59
KSEM190R7WN25M	H61
KSEM190SEFM	H64
KSEM1920HPGM KCPM45	H45
KSEM1920HPLM KC7320	H50
KSEM1920SPLM KCMS35	H52
KSEM1923HPGM KCPM45	H45
KSEM1923HPLM KC7320	H50
KSEM1923HPM KC7315	H40
KSEM1923SPLM KCMS35	H52
KSEM1925HPGM KC7315	H42
KSEM1925HPGM KCPM45	H45
KSEM1925HPLM KC7320	H50
KSEM1925SPLM KCMS35	H52
KSEM1927HPCCLM KC7410	H48
KSEM1927HPGM KC7315	H42
KSEM1927HPGM KCPM45	H45
KSEM1927HPLM KC7320	H50
KSEM1927HPM KC7315	H40
KSEM1927SPLM KCMS35	H52
KSEM1932HPGM KC7315	H42
KSEM1935HPGM KC7315	H42
KSEM1935HPLM KC7320	H50
KSEM1935SPLM KCMS35	H52
KSEM1936HPLM KC7320	H50
KSEM1938HPLM KC7320	H50
KSEM1945HPCCLM KC7410	H48
KSEM1945HPGM KC7315	H42
KSEM1945HPGM KCPM45	H45
KSEM1945HPLM KC7320	H50
KSEM1945HPM KC7315	H40
KSEM1945SPLM KCMS35	H52
KSEM1950FEGM KCPM45	H54
KSEM1950HPCCLM KC7410	H48
KSEM1950HPGM KC7315	H42
KSEM1950HPGM KCPM45	H45
KSEM1950HPLM KC7320	H50
KSEM1950HPM KC7315	H40
KSEM1950PCM KC7135	H56
KSEM1950SPLM KCMS35	H52
KSEM195R10WN25M	H61
KSEM195R3WN25M	H59
KSEM195R5WN25M	H59
KSEM195R7WN25M	H61
KSEM195SEFM	H64
KSEM1965HPGM KCPM45	H45
KSEM1970HPGM KC7315	H42
KSEM1984FEGM KCPM45	H54
KSEM1984HPCCLM KC7410	H48
KSEM1984HPGM KC7315	H42
KSEM1984HPGM KCPM45	H45
KSEM1984HPLM KC7320	H50
KSEM1984HPM KC7315	H40
KSEM1984SPLM KCMS35	H52
KSEM2000FEGM KCPM45	H54
KSEM2000HPCCLM KC7410	H48, H87
KSEM2000HPGM KC7315	H42
KSEM2000HPGM KCPM45	H45
KSEM2000HPLM KC7320	H50
KSEM2000HPM KC7315	H40
KSEM2000PCM KC7135	H56, H87
KSEM2000SPLM KCMS35	H52
KSEM200R10WN25M	H61
KSEM200R1WN25F45M	H63
KSEM200R1WN25M	H58
KSEM200R3WN25M	H59
KSEM200R5WN25M	H59
KSEM200R7WN25M	H61
KSEM200SEFM	H64
KSEM2010HPLM KC7320	H50
KSEM2024HPCCLM KC7410	H48
KSEM2024HPGM KC7315	H42
KSEM2024HPGM KCPM45	H45
KSEM2024HPLM KC7320	H50
KSEM2024HPM KC7315	H40
KSEM2024SPLM KCMS35	H52
KSEM2035HPLM KC7320	H50
KSEM2050FEGM KCPM45	H54
KSEM2050HPCCLM KC7410	H48
KSEM2050HPGM KC7315	H42
KSEM2050HPGM KCPM45	H45
KSEM2050HPLM KC7320	H50
KSEM2050HPM KC7315	H40
KSEM2050PCM KC7135	H56
KSEM2050SPLM KCMS35	H52
KSEM205R10WN25M	H61
KSEM205R3WN25M	H59
KSEM205R5WN25M	H59
KSEM205R7WN25M	H61
KSEM205SEFM	H64
KSEM2064HPCCLM KC7410	H48
KSEM2064HPGM KC7315	H42
KSEM2064HPGM KCPM45	H45
KSEM2064HPLM KC7320	H50
KSEM2064HPM KC7315	H40
KSEM2064SPLM KCMS35	H52
KSEM2070HPGM KC7315	H42
KSEM2100FEGM KCPM45	H54
KSEM2100HPCCLM KC7410	H48, H87
KSEM2100HPGM KC7315	H42
KSEM2100HPGM KCPM45	H45
KSEM2100HPLM KC7320	H50
KSEM2100HPM KC7315	H40
KSEM2100PCM KC7135	H56, H87
KSEM2100SPLM KCMS35	H52
KSEM210R10WN25M	H61
KSEM210R3WN25M	H59
KSEM210R5WN25M	H59
KSEM210R7WN25M	H61
KSEM210SEFM	H64
KSEM2110HPGM KC7315	H42
KSEM2115HPLM KC7320	H50
KSEM2120HPGM KC7315	H42
KSEM2133HPGM KC7315	H43
KSEM2133HPLM KC7320	H50
KSEM2143HPCCLM KC7410	H48
KSEM2143HPGM KC7315	H43
KSEM2143HPGM KCPM45	H45
KSEM2143HPLM KC7320	H50
KSEM2143HPM KC7315	H40
KSEM2150FEGM KCPM45	H54
KSEM2150HPCCLM KC7410	H48
KSEM2150HPGM KC7315	H43
KSEM2150HPGM KCPM45	H45
KSEM2150HPLM KC7320	H50
KSEM2150HPM KC7315	H40
KSEM2150PCM KC7135	H56
KSEM2150SPLM KCMS35	H52
KSEM215R10WN25M	H61
KSEM215R3WN25M	H59
KSEM215R5WN25M	H59
KSEM215R7WN25M	H61
KSEM215SEFM	H64
KSEM2170HPGM KC7315	H43
KSEM2183HPGM KC7315	H43
KSEM2183HPGM KCPM45	H45
KSEM2183HPLM KC7320	H50
KSEM2183HPM KC7315	H40
KSEM2200FEGM KCPM45	H54
KSEM2200HPCCLM KC7410	H48, H87
KSEM2200HPGM KC7315	H43
KSEM2200HPGM KCPM45	H45
KSEM2200HPLM KC7320	H50
KSEM2200HPM KC7315	H40
KSEM2200PCM KC7135	H56, H87
KSEM2200SPLM KCMS35	H52
KSEM220R10WN25M	H61
KSEM220R3WN25M	H59
KSEM220R5WN25M	H59
KSEM220R7WN25M	H61
KSEM220SEFM	H64
KSEM2210HPCCLM KC7410	H48
KSEM2210HPGM KC7315	H43
KSEM2215HPGM KC7315	H43
KSEM221R10WN25M	H61
KSEM221R1WN25F45M	H63
KSEM221R1WN25M	H58
KSEM221R5WN25M	H59
KSEM2223HPCCLM KC7410	H48
KSEM2223HPGM KC7315	H43
KSEM2223HPGM KCPM45	H45
KSEM2223HPLM KC7320	H50
KSEM2223HPM KC7315	H40
KSEM2223SPLM KCMS35	H52
KSEM2244HPCCLM KC7410	H48
KSEM2244HPGM KC7315	H43
KSEM2244HPGM KCPM45	H45
KSEM2244HPLM KC7320	H50
KSEM2244HPM KC7315	H40
KSEM2250FEGM KCPM45	H54
KSEM2250HPCCLM KC7410	H48
KSEM2250HPGM KC7315	H43
KSEM2250HPGM KCPM45	H45
KSEM2250HPLM KC7320	H50
KSEM2250HPM KC7315	H40
KSEM2250PCM KC7135	H56
KSEM2250SPLM KCMS35	H52
KSEM225R10WN25M	H61
KSEM225R3WN25M	H60
KSEM225R5WN25M	H60
KSEM225R7WN25M	H61
KSEM225SEFM	H64
KSEM2262HPGM KC7315	H43
KSEM2277HPLM KC7320	H50
KSEM2300FEGM KCPM45	H54
KSEM2300HPCCLM KC7410	H48, H87
KSEM2300HPGM KC7315	H43
KSEM2300HPGM KCPM45	H45
KSEM2300HPLM KC7320	H50
KSEM2300HPM KC7315	H40
KSEM2300PCM KC7135	H56, H87
KSEM2300SPLM KCMS35	H52
KSEM2305HPGM KC7315	H43
KSEM230R10WN25M	H61
KSEM230R3WN25M	H60
KSEM230R5WN25M	H60
KSEM230R7WN25M	H61
KSEM230SEFM	H64
KSEM2310HPGM KC7315	H43
KSEM2325HPGM KC7315	H43
KSEM2330HPGM KC7315	H43
KSEM2342HPCCLM KC7410	H48
KSEM2342HPGM KC7315	H43
KSEM2342HPGM KCPM45	H45
KSEM2342HPLM KC7320	H50
KSEM2342HPM KC7315	H40
KSEM2350FEGM KCPM45	H54
KSEM2350HPCCLM KC7410	H48
KSEM2350HPGM KC7315	H43
KSEM2350HPGM KCPM45	H45
KSEM2350HPLM KC7320	H50
KSEM2350HPM KC7315	H40
KSEM2350PCM KC7135	H56
KSEM2350SPLM KCMS35	H52
KSEM235R10WN25M	H61
KSEM235R3WN25M	H60
KSEM235R5WN25M	H60
KSEM235R7WN25M	H61
KSEM235SEFM	H64
KSEM2360HPGM KCPM45	H45
KSEM2370HPGM KCPM45	H45
KSEM2381HPCCLM KC7410	H48
KSEM2381HPGM KC7315	H43
KSEM2381HPGM KCPM45	H45
KSEM2381HPLM KC7320	H50
KSEM2381HPM KC7315	H40
KSEM2381SPLM KCMS35	H52
KSEM2400FEGM KCPM45	H54
KSEM2400HPCCLM KC7410	H48, H87
KSEM2400HPGM KC7315	H43
KSEM2400HPGM KCPM45	H45
KSEM2400HPLM KC7320	H50
KSEM2400HPM KC7315	H40
KSEM2400PCM KC7135	H56, H87
KSEM2400SPLM KCMS35	H52
KSEM240R10WN25M	H61
KSEM240R3WN25M	H60
KSEM240R5WN25M	H60
KSEM240R7WN25M	H61
KSEM240SEFM	H64
KSEM241R10WN32M	H61
KSEM241R1WN32F45M	H63
KSEM241R1WN32M	H58
KSEM241R5WN32M	H60
KSEM2430HPGM KC7315	H43
KSEM2450FEGM KCPM45	H54
KSEM2450HPCCLM KC7410	H48
KSEM2450HPGM KC7315	H43
KSEM2450HPGM KCPM45	H45
KSEM2450HPLM KC7320	H50
KSEM2450HPM KC7315	H40
KSEM2450PCM KC7135	H56
KSEM2450SPLM KCMS35	H52
KSEM245R10WN32M	H61
KSEM245R3WN32M	H60
KSEM245R5WN32M	H60
KSEM245R7WN32M	H61
KSEM245SEFM	H64
KSEM2461HPCCLM KC7410	H48
KSEM2461HPGM KC7315	H43
KSEM2461HPGM KCPM45	H46
KSEM2461HPLM KC7320	H50
KSEM2461HPM KC7315	H40
KSEM2470HPGM KC7315	H43
KSEM2500FEGM KCPM45	H54
KSEM2500HPCCLM KC7410	H48, H87
KSEM2500HPGM KC7315	H43
KSEM2500HPGM KCPM45	H46
KSEM2500HPLM KC7320	H50
KSEM2500HPM KC7315	H40
KSEM2500PCM KC7135	H56, H87
KSEM2500SPLM KCMS35	H52
KSEM2507HPLM KC7320	H50
KSEM250R10WN32M	H61
KSEM250R3WN32M	H60
KSEM250R5WN32M	H60
KSEM250R7WN32M	H61
KSEM250SEFM	H64
KSEM2525SPLM KCMS35	H52
KSEM2530SPLM KCMS35	H52
KSEM2540FEGM KCPM45	H54
KSEM2540HPCCLM KC7410	H48
KSEM2540HPGM KC7315	H43

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
KSEM2540HPGM KCPM45	H46
KSEM2540HPLM KC7320	H50
KSEM2540HPM KC7315	H40
KSEM2540SPLM KCMS35	H52
KSEM2550FEGM KCPM45	H54
KSEM2550HPCCLM KC7410	H48
KSEM2550HPGM KC7315	H43
KSEM2550HPGM KCPM45	H46
KSEM2550HPLM KC7320	H50
KSEM2550HPM KC7315	H40
KSEM2550PCM KC7135	H56
KSEM2550SPLM KCMS35	H52
KSEM2554HPGM KC7315	H43
KSEM255R10WN32M	H61
KSEM255R3WN32M	H60
KSEM255R5WN32M	H60
KSEM255R7WN32M	H61
KSEM255SEFM	H64
KSEM2560HPGM KC7315	H43
KSEM2560HPGM KCPM45	H46
KSEM2560HPLM KC7320	H50
KSEM2560HPM KC7315	H40
KSEM2560SPLM KCMS35	H52
KSEM2565HPGM KC7315	H43
KSEM2565HPGM KCPM45	H46
KSEM2565HPLM KC7320	H51
KSEM2565SPLM KCMS35	H52
KSEM2567HPCCLM KC7410	H48
KSEM2567HPGM KC7315	H43
KSEM2567HPGM KCPM45	H46
KSEM2567HPLM KC7320	H51
KSEM2567HPM KC7315	H40
KSEM2567SPLM KCMS35	H52
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KSEM2581HPLM KC7320	H51
KSEM2581SPLM KCMS35	H52
KSEM2600FEGM KCPM45	H54
KSEM2600HPCCLM KC7410	H48, H87
KSEM2600HPGM KC7315	H43
KSEM2600HPGM KCPM45	H46
KSEM2600HPLM KC7320	H51
KSEM2600HPM KC7315	H41
KSEM2600PCM KC7135	H56, H87
KSEM2600SPLM KCMS35	H52
KSEM260R10WN32M	H62
KSEM260R3WN32M	H60
KSEM260R5WN32M	H60
KSEM260R7WN32M	H62
KSEM260SEFM	H64
KSEM2619FEGM KCPM45	H54
KSEM2619HPCCLM KC7410	H48
KSEM2619HPGM KC7315	H43
KSEM2619HPGM KCPM45	H46
KSEM2619HPLM KC7320	H51
KSEM2619HPM KC7315	H41
KSEM2619SPLM KCMS35	H52
KSEM261R10WN32M	H62
KSEM261R1WN32F45M	H63
KSEM261R1WN32M	H58
KSEM261R5WN32M	H60
KSEM2630SPLM KCMS35	H52
KSEM2650FEGM KCPM45	H54
KSEM2650HPCCLM KC7410	H48
KSEM2650HPGM KC7315	H43
KSEM2650HPGM KCPM45	H46
KSEM2650HPLM KC7320	H51
KSEM2650HPM KC7315	H41
KSEM2650PCM KC7135	H56
KSEM2650SPLM KCMS35	H52
KSEM2653HPGM KC7315	H43
KSEM2659HPCCLM KC7410	H48
KSEM2659HPGM KC7315	H43
KSEM2659HPGM KCPM45	H46
KSEM2659HPLM KC7320	H51
KSEM2659HPM KC7315	H41
KSEM2659SPLM KCMS35	H52
KSEM265R10WN32M	H62
KSEM265R3WN32M	H60
KSEM265R5WN32M	H60
KSEM265R7WN32M	H62
KSEM265SEFM	H64
KSEM2670FEGM KCPM45	H54
KSEM2670HPGM KC7315	H43
KSEM2670HPLM KC7320	H51
KSEM2700FEGM KCPM45	H54
KSEM2700HPCCLM KC7410	H48, H87
KSEM2700HPGM KC7315	H43
KSEM2700HPGM KCPM45	H46
KSEM2700HPLM KC7320	H51
KSEM2700HPM KC7315	H41
KSEM2700PCM KC7135	H56, H87
KSEM2700SPLM KCMS35	H52
KSEM270R10WN32M	H62
KSEM270R3WN32M	H60
KSEM270R5WN32M	H60
KSEM270R7WN32M	H62
KSEM270SEFM	H64
KSEM2750FEGM KCPM45	H54
KSEM2750HPCCLM KC7410	H48
KSEM2750HPGM KC7315	H43
KSEM2750HPGM KCPM45	H46
KSEM2750HPLM KC7320	H51
KSEM2750HPM KC7315	H41
KSEM2750SPLM KCMS35	H52
KSEM275R10WN32M	H62
KSEM275R3WN32M	H60
KSEM275R5WN32M	H60
KSEM275R7WN32M	H62
KSEM275SEFM	H64
KSEM2778HPCCLM KC7410	H48
KSEM2778HPGM KC7315	H43
KSEM2778HPGM KCPM45	H46
KSEM2778HPM KC7315	H41
KSEM2779HPLM KC7320	H51
KSEM2800FEGM KCPM45	H54
KSEM2800HPCCLM KC7410	H49, H87
KSEM2800HPGM KC7315	H43
KSEM2800HPGM KCPM45	H46
KSEM2800HPLM KC7320	H51
KSEM2800HPM KC7315	H41
KSEM2800PCM KC7135	H56, H87
KSEM2800SPLM KCMS35	H52
KSEM280R10WN32M	H62
KSEM280R3WN32M	H60
KSEM280R5WN32M	H60
KSEM280R7WN32M	H62
KSEM280SEFM	H64
KSEM2810HPLM KC7320	H51
KSEM2817HPLM KC7320	H51
KSEM2818HPCCLM KC7410	H49
KSEM2818HPGM KC7315	H43
KSEM2818HPGM KCPM45	H46
KSEM2818HPM KC7315	H41
KSEM281R10WN32M	H62
KSEM281R1WN32F45M	H63
KSEM281R1WN32M	H58
KSEM281R5WN32M	H60
KSEM2835HPGM KCPM45	H46
KSEM2850FEGM KCPM45	H54
KSEM2850HPCCLM KC7410	H49
KSEM2850HPGM KC7315	H43
KSEM2850HPGM KCPM45	H46
KSEM2850HPLM KC7320	H51
KSEM2850HPM KC7315	H41
KSEM2850PCM KC7135	H56
KSEM2850SPLM KCMS35	H52
KSEM2858HPCCLM KC7410	H49
KSEM2858HPGM KC7315	H43
KSEM2858HPGM KCPM45	H46
KSEM2858HPLM KC7320	H51
KSEM2858HPM KC7315	H41
KSEM2858SPLM KCMS35	H53
KSEM285R10WN32M	H62
KSEM285R3WN32M	H60
KSEM285R5WN32M	H60
KSEM285R7WN32M	H62
KSEM285SEFM	H64
KSEM2900FEGM KCPM45	H54
KSEM2900HPCCLM KC7410	H49, H87
KSEM2900HPGM KC7315	H43
KSEM2900HPGM KCPM45	H46
KSEM2900HPLM KC7320	H51
KSEM2900HPM KC7315	H41
KSEM2900PCM KC7135	H56, H87
KSEM2900SPLM KCMS35	H53
KSEM290R10WN32M	H62
KSEM290R3WN32M	H60
KSEM290R5WN32M	H60
KSEM290R7WN32M	H62
KSEM290SEFM	H64
KSEM2937HPCCLM KC7410	H49
KSEM2937HPGM KC7315	H43
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KSEM2950FEGM KCPM45	H54
KSEM2950HPCCLM KC7410	H49
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KSEM2950HPGM KCPM45	H46
KSEM2950HPLM KC7320	H51
KSEM2950HPM KC7315	H41
KSEM2950PCM KC7135	H56
KSEM2950SPLM KCMS35	H53
KSEM2955HPGM KC7315	H43
KSEM295R10WN32M	H62
KSEM295R3WN32M	H60
KSEM295R5WN32M	H60
KSEM295R7WN32M	H62
KSEM295SEFM	H64
KSEM2973HPGM KC7315	H43
KSEM2977HPCCLM KC7410	H49
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KSEM2977HPGM KCPM45	H46
KSEM2977HPLM KC7320	H51
KSEM2977HPM KC7315	H41
KSEM3000FEGM KCPM45	H54
KSEM3000HPCCLM KC7410	H49, H87
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KSEM3000HPGM KCPM45	H46
KSEM3000HPLM KC7320	H51
KSEM3000HPM KC7315	H41
KSEM3000PCM KC7135	H56, H87
KSEM3000SPLM KCMS35	H53
KSEM300R10WN32M	H62
KSEM300R3WN32M	H60
KSEM300R5WN32M	H60
KSEM300R7WN32M	H62
KSEM300SEFM	H64
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KSEM3016HPGM KCPM45	H46
KSEM3016HPLM KC7320	H51
KSEM3016HPM KC7315	H41
KSEM301R10WN32M	H62
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KSEM301R5WN32M	H60
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KSEM3050HPM KC7315	H41
KSEM3050PCM KC7135	H56
KSEM3050SPLM KCMS35	H53
KSEM3056HPGM KC7315	H43
KSEM305R3WN32M	H60
KSEM305R5WN32M	H60
KSEM305R7WN32M	H62
KSEM305SEFM	H64
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KSEM3096HPGM KCPM45	H46
KSEM3096HPM KC7315	H41
KSEM3100FEGM KCPM45	H54
KSEM3100HPCCLM KC7410	H49, H87
KSEM3100HPGM KC7315	H43
KSEM3100HPGM KCPM45	H46
KSEM3100HPLM KC7320	H51
KSEM3100HPM KC7315	H41
KSEM3100PCM KC7135	H56, H87
KSEM3100SPLM KCMS35	H53
KSEM310R10WN32M	H62
KSEM310R3WN32M	H60
KSEM310R5WN32M	H60
KSEM310R7WN32M	H62
KSEM310SEFM	H64
KSEM3115HPGM KCPM45	H46
KSEM3125HPGM KC7315	H43
KSEM3150FEGM KCPM45	H54
KSEM3150HPGM KC7315	H43
KSEM3150HPGM KCPM45	H46
KSEM3150HPLM KC7320	H51
KSEM3150HPM KC7315	H41
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KSEM315R7WN32M	H62
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KSEM3175HPM KC7315	H41
KSEM3175SPLM KCMS35	H53
KSEM3200FEGM KCPM45	H54
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KSEM3200PCM KC7135	H56, H87
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KSEM321R1WD50M	H58
KSEM321R3WD40M	H60
KSEM321R3WD50M	H60
KSEM321R5WD40M	H60
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KSEM3250HPGM KCPM45	H46
KSEM3250HPM KC7315	H41
KSEM3250SPLM KCMS35	H53
KSEM3254HPGM KC7315	H43
KSEM3254HPGM KCPM45	H46
KSEM3254HPLM KC7320	H51
KSEM3294HPGM KC7315	H43
KSEM3300FEGM KCPM45	H54
KSEM3300HPCCLM KC7410	H49, H87
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KSEM3300HPM KC7315	H41
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KSEM330R3WD50M	H60
KSEM330R5WD40M	H60
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KSEM3350SPLM KCMS35	H53
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KSEM3400HPCCLM KC7410	H49, H87
KSEM3400HPGM KC7315	H43
KSEM3400HPGM KCPM45	H46
KSEM3400HPLM KC7320	H51
KSEM3400HPM KC7315	H41
KSEM3400PCM KC7135	H56, H87
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KSEM340R3WD40M	H60
KSEM340R3WD50M	H60
KSEM340R5WD40M	H60

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
KSEM340R5WD50M	H60
KSEM3413HPGM KC7315	H43
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KSEM3493HPGM KC7315	H43
KSEM3493HPGM KCPM45	H46
KSEM3493HPLM KC7320	H51
KSEM3493HPM KC7315	H41
KSEM3500FEGM KCPM45	H54
KSEM3500HPCCLM KC7410	H49, H87
KSEM3500HPGM KC7315	H43
KSEM3500HPGM KCPM45	H46
KSEM3500HPLM KC7320	H51
KSEM3500HPM KC7315	H41
KSEM3500PCM KC7135	H56, H87
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KSEM3571HPLM KC7320	H51
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KSEM3600HPCCLM KC7410	H49, H87
KSEM3600HPGM KC7315	H43
KSEM3600HPGM KCPM45	H46
KSEM3600HPLM KC7320	H51
KSEM3600HPM KC7315	H41
KSEM3600PCM KC7135	H56, H87
KSEM3600SPLM KCMS35	H53
KSEM360R3WD40M	H60
KSEM360R3WD50M	H60
KSEM360R5WD40M	H60
KSEM360R5WD50M	H60
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KSEM370R5WD50M	H60
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KSEM3750SPLM KCMS35	H53
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KSEM3800HPCCLM KC7410	H49, H87
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KSEM3800HPLM KC7320	H51
KSEM3800HPM KC7315	H41
KSEM3800PCM KC7135	H56, H87
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KSEM3950SPLM KCMS35	H53
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KSEM4000HPGM KCPM45	H46
KSEM4000HPLM KC7320	H51
KSEM4000HPM KC7315	H41
KSEM4000PCM KC7135	H56, H87
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KSEMP10160FDS90B1M	H86, H96
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KSEMP2800HPGM KC7315	H87
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KSEMP2858FDS28B1M	H84, H94
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KSEMP2900FDS28B1M	H84, H94
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KSEMP2937FDS28B1M	H84, H94
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KSEMP3000FDS28B1M	H84, H94
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KSEMP3017FDS28B1M	H84, H94
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KSEMP3096FDS28B1M	H84, H94
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KSEMP3100FDS28B1M	H84, H94
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KSEMP3175FDS32B1M	H84, H94
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KSEMP3320FDS32B1M	H84, H94
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KSEMP3334FDS32B1M	H84, H94
KSEMP3400FDS32A1M	H80, H91, H98
KSEMP3400FDS32B1M	H84, H94
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KSEMP3493FDS32B1M	H84, H94
KSEMP3500FDS32A1M	H80, H91, H98
KSEMP3500FDS32B1M	H84, H94
KSEMP3500HPGM KC7315	H87
KSEMP3600FDS36A1M	H80, H92, H98
KSEMP3600FDS36B1M	H84, H94
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KSEMP3651FDS36B1M	H84, H94
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KSEMP3700FDS36B1M	H84, H94
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KSEMP3750FDS36B1M	H84, H94
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KSEMP3800FDS36B1M	H84, H95
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KSEMP3900FDS36B1M	H84, H95
KSEMP3900HPGM KC7315	H87
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KSEMP3970FDS36B1M	H84, H95
KSEMP4000FDS40A1M	H80, H92, H98
KSEMP4000FDS40B1M	H84, H95
KSEMP4000HPGM KC7315	H87
KSEMP4100FDS40A1M	H80, H92, H98
KSEMP4100FDS40B1M	H84, H95
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KSEMP4400FDS40A1M	H80, H92, H98
KSEMP4400FDS40B1M	H84, H95
KSEMP4445FDS40A1M	H80, H92, H98
KSEMP4445FDS40B1M	H84, H95
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KSEMP4500FDS45B1M	H85, H95
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KSEMP5300FDS50B1M	H85, H95
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KSEMP5715FDS56B1M	H85, H95
KSEMP5800FDS56A1M	H81, H92, H98
KSEMP5800FDS56B1M	H85, H95
KSEMP5900FDS56A1M	H81, H92, H98
KSEMP5900FDS56B1M	H85, H95
KSEMP6000FDS56A1M	H81, H92, H98
KSEMP6000FDS56B1M	H85, H95
KSEMP6033FDS56A1M	H81, H92, H98
KSEMP6033FDS56B1M	H85, H95
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KSEMP6600FDS63A1M	H81, H92, H99
KSEMP6600FDS63B1M	H85, H95
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KSEMP6900FDS63B1M	H85, H95
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KSEMP6985FDS63B1M	H85, H95
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KSEMP7400FDS71B1M	H86, H95
KSEMP7500FDS71A1M	H82, H92, H99
KSEMP7500FDS71B1M	H86, H95
KSEMP7600FDS71A1M	H82, H93, H99
KSEMP7600FDS71B1M	H86, H95
KSEMP7620FDS71A1M	H82, H93, H99
KSEMP7620FDS71B1M	H86, H95
KSEMP7700FDS71A1M	H82, H93, H99
KSEMP7700FDS71B1M	H86, H95
KSEMP7800FDS71A1M	H82, H93, H99
KSEMP7800FDS71B1M	H86, H95
KSEMP7900FDS71A1M	H82, H93, H99
KSEMP7900FDS71B1M	H86, H96
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KSEMP7938FDS80B1M	H86, H96
KSEMP8000FDS80A1M	H82, H93, H99
KSEMP8000FDS80B1M	H86, H96
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KSEMP8100FDS80B1M	H86, H96
KSEMP8200FDS80A1M	H82, H93, H99
KSEMP8200FDS80B1M	H86, H96
KSEMP8255FDS80A1M	H82, H93, H99
KSEMP8255FDS80B1M	H86, H96
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KSEMP8400FDS80B1M	H86, H96
KSEMP8500FDS80A1M	H82, H93, H99

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
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KT20	V111–115, V128–130
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KT6	V114–115
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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KUAM23	B73, B183, B229, B235–237, B260–263, C171, D41–42
KUAM25	B70–72, B92–93, B115–117, B119, B139–141, B183, B235, B378
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KUAM27	B72, B115, B119, T81
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LNEU1255R04 KC725M	U19
LNEU1255R04 KCPM40	U19
LNEU1255R08 KC520M	U19
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LT16ER16ACME KC5025	D54
LT16ER16STACME KC5025	D61
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M1H25J02R46A25ED10C8	T40
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M4-11KITD20Z2B20EGEKC725M	T11
M4-11KITD20Z2B20SGEKCPM40	T11
M4-11KITD20Z3A20EGEKC725M	T11
M4-11KITD20Z3A20SGEKCPM40	T11
M4-11KITD25Z3B20EGEKC725M	T11
M4-11KITD25Z3B25SGEKCPM40	T11
M4-11KITD25Z4A25EGEKC725M	T11
M4-11KITD25Z4A25SGEKCPM40	T11
M4-11KITD32Z4B32EGEKC725M	T11
M4-11KITD32Z4B32SGEKCPM40	T11
M4-11KITD32Z5A32EGEKC725M	T11
M4-11KITD32Z5A32SGEKCPM40	T11
M4-11KITD40Z4S16EGEKC725M	T11
M4-11KITD40Z4S16SGEKCPM40	T11
M4-11KITD40Z6S16EGEKC725M	T11
M4-11KITD40Z6S16SGEKCPM40	T11
M4-11KITD50Z5S22EGEKC725M	T11
M4-11KITD50Z5S22SGEKCPM40	T11
M4-11KITD50Z7S22EGEKC725M	T11
M4-11KITD50Z7S22SGEKCPM40	T11
M4-11KITD63Z9S22EGEKC725M	T11
M4-11KITD63Z9S22SGEKCPM40	T11
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M4D020Z03M10LN11	T4
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M4D032Z03M16LN15	T14
M4D032Z04A32LN11L200	T6
M4D032Z04A32LN15L110	T16
M4D032Z04A32LN15L200	T16
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M4D032Z05A32LN11L110	T6, T11
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M4D032Z06M16LN11	T4
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M4D040Z04A32LN15L200	T16
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M4D040Z06S16LN11	T7, T11
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M4D063Z09S22LN11	T7, T11
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M4KITD63Z06S22SGEKCPM40	T21
M4KITD63Z07S22SGEMKC520M	T21
M4KITD80Z07S27EGEKC725M	T21
M4KITD80Z07S27SGEKCPM40	T21
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M8-JIC	C75
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MB115RBHT16LF	K120
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MB24RBHT06F	K120
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MB30RBHT06F	K120
MB30RBHT06K	K121
MB40RBHT09F	K120
MB40RBHT09K	K121
MB50RBHT09F	K120
MB50RBHT09K	K121
MB66RBHT12F	K120
MB66RBHT12K	K121
MB66RBHT12LF	K120
MB66RBHT12LK	K121
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MCLNR3232P19	B62
MCLNR4040R19	B62
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MSKNR25CA19	B115
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NASR1616K3Q	C167, D27
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NEL2525M4	C168, D28
NEL25CA3	C171, D41–42
NEL3225P3	C168, D28
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NER3225P4	C168, D28
NER3232P4	C168, D28
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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NKLCRF1212M11Q	E36
NKLNL2020K15	E37
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
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PCSNR3232P19	B66
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PKG0011	K126
PKG1402	K126
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PKG1802	K126
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PKG3242	K130, K132
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
RCMT1204M0RP KCK15	B226
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
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RK90SD1220	U43, U45, U49
RK90SP1014	U27, U30, U32, U34
RK90SP1016	U31, U35
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RNGN190700T01020 KYS30	B334

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
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SDHT09T308EN423 KCSM40	T116
SDHT09T308EN423 SP6519	T116
SDHT09T308EN423 X500	T116
SDHT09T3AEEN422 SP6519	T116
SDHT120412EN422 KCSM40	T119
SDHT120412EN422 SP6519	T119
SDHT120412EN422 X500	T119
SDHT120412EN423 KCSM40	T119
SDHT120412EN423 SP6519	T119
SDHT120412EN423 X500	T119
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SDJCL1616H11	B210
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SDJCL2020K11	B210
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SDJCR2525M15	B210
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SDJCRF1010M07Q	B211
SDJCRF1212M07Q	B211
SDJCRF1616K11Q	B211
SDJPL10CA07	B220
SDJPR10CA07	B220
SDMT060304EGG KC730M	U4
SDMT060304EGG KC735M	U4
SDMT080308EGG KC505M	U4
SDMT080308EGG KC730M	U4
SDMT080308EGG KC735M	U4
SDMT09T308EN41 KCSM40	T117
SDMT09T308EN41 MP91M	T117
SDMT09T308EN41 SP6519	T117
SDMT09T308EN41 X500	T117
SDMT120408EGG KC505M	U4
SDMT120408EGG KC730M	U4
SDMT120408EGG KC735M	U4
SDMT120412EN41 KCSM40	T120
SDMT120412EN41 MP91M	T120
SDMT120412EN41 SP6519	T120
SDMT120412EN41 X500	T120
SDMW09T308TN KCSM40	T117
SDMW120412TN KCSM40	T120
SDMW120412TN SP6519	T120
SDNCN0808L07	B211
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SDNCN1212N07	B211
SDNCN1616H11	B211
SDNCN2020K11	B211
SDNCN2020K15	B211
SDNCN2525M15	B211
SDPCN1212M11Q	B212
SDPT120412PDENHPZ KC725M	V141
SDPT120412PDENHPZ KCPK30	V141
SDPT120412PDENHPZ KCPM40	V141
SDPT120412PDSNHPZ KC725M	V141
SDPT120412PDSNHPZ KCPK30	V141
SDPT120412PDSNHPZ KCPM40	V141
SDPT1204PDERGB2 KC725M	T105, T112, U52
SDPT1204PDERGB2 KCK15	T105, T112, U52
SDPT1204PDERGB2 KCPK30	T105, T112, U52
SDPT1204PDERGB2 KCPM40	T105, T112, U52
SDPT1204PDERGB2 KCSM40	T105, T112, U52
SDPT1204PDSRGB2 KC725M	T105, T112, U52
SDPT1204PDSRGB2 KCK15	T105, T112, U52
SDPT1204PDSRGB2 KCPK30	T105, T112, U52
SDPT1204PDSRGB2 KCPM40	T105, T112, U52
SDPT1204PDSRGB2 KCSM40	T105, T112, U52
SDSW66	V82
SDUPR10CA07	B221
SECT1404AEENLD2 KC725M	S42
SECT1404AEFNLE KC410M	S42
SECW1404AEENGNW KC725M	S43
SECW1404AESNGN KY3500	S43
SEKT1404AEENGP2 KC520M	S42
SEKT1404AEENGP2 KC725M	S42
SEKT1404AEENGP2 KCK15	S42
SEKT1404AEENGP2 KCPK30	S42
SEKT1404AEENGP2 KCPM40	S42
SEKT1404AESNGP2 KC520M	S42
SEKT1404AESNGP2 KC725M	S42
SEKT1404AESNGP2 KCK15	S42
SEKT1404AESNGP2 KCPK30	S42
SEKT1404AESNGP2 KCPM40	S42
SEPT1404AEENGB2 KC725M	S43
SEPT1404AEENGB2 KCK15	S43
SEPT1404AEENGB2 KCPK30	S43
SEPT1404AEENGB2 KCPM40	S43
SEPT1404AESNGB2 KC725M	S43
SEPT1404AESNGB2 KCK15	S43

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
SEPT1404AESNGB2 KCPK30	S43
SEPT1404AESNGB2 KCPM40	S43
SF075RBHT24	K119
SF100FBHO1660	K125
SF100RBHT30	K119
SF100RBHT50	K119
SF125RBHT40	K119
SF125RBHT66	K119
SF150FBHO1660	K125
SF150RBHT87	K119
SF200RBHT115	K119
SF300M1LA1RA	K64
SF300M1RS	K64
SF750M1LA1RA	K64
SF750M1RS	K64
SFCPS	K66
SFCR20	K67
SFCR20S	K67
SFCRHSK3263	K67
SFCRHSK63100	K67
SFEBCH	K66
SFEBS	K66
SFMGS	K67
SFSB450	K66
SFSB900	K66
SFSLLA	K65
SFSLLS	K65
SFSLRA	K65
SFSLRS	K65
SFSLSS	K65
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SIF100HC12090M	K47
SIF100HC20100M	K47
SIF100HC25100M	K47
SIF70HC12090M	K47
SIF70HC20100M	K47
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SIF80HC20100M	K47
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SKRN100300 K9	B227–228
SKRN1203M0 K9	B227–228
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SKSN566K K9	B115–117, B119
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SKSP453 K9	B233–234
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SMYE4 K9	D78–79, D81, D83–84, D86
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SMYI3 K9	D78–79, D81–86
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SMYI5 K9	D82, D84–85
SN2TPKG	W40, W42
SN3TM	W40, W42
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SN5TM	W40–43
SN7T	W40
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SNHX11T3PZFNGE KC510M	U14
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SNMG120412MW KCP10	B100
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SNMG120412RN KCP30B	B101
SNMG120412RN KCP40	B101
SNMG120412RN KCP40B	B101
SNMG120412RN KCPK05	B101

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
SNMG120412RP KC5010	B101
SNMG120412RP KC5025	B101
SNMG120412RP KCK05	B101
SNMG120412RP KCK15	B101
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SRS4	B180, B182, B209–211, B213, B233–234
SRS5	B227
SS10DL10100M	057

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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SS12DL10120M	057
SS12DL12120M	057
SS12SLDL10065M	056
SS12SLDL12065M	056
SS16DL10160M	057
SS16DL12160M	057
SS16DL16160M	057
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SS16KST115AR5M	K38
SS16SLDL10090M	056
SS16SLDL12080M	056
SS16SLDL16070M	056
SS20DL10200M	057
SS20DL12200M	057
SS20DL16200M	057
SS20DL20200M	057
SS20FBHS24	K135
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SS20KST135AR5M	K38
SS20KST155AR3M	K38
SS20KST155AR5M	K38
SS20KST175AR3M	K38
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SS20RBHT24	K120
SS20SLDL10115M	056
SS20SLDL12105M	056
SS20SLDL16080M	056
SS20SLDL20080M	056
SS25DL16250M	057
SS25DL20250M	057
SS25DL25250M	057
SS25FBHS31	K135
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SS25KST250AR5M	K38
SS25KST250RR3M	K39
SS25KST250RR5M	K39
SS25RBHT30	K120
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SS25SLDL25090M	056
SS32DL25250M	057
SS32DL32250M	057
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SS32KST300AR5M	K38
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SS32SLDL32105M	056
SS40DL32250M	057
SS40SLDL32140M	056
SS50DL32250M	057
SS50SLDL32200M	056
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SSA4T	D78–79, D81–86
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SSBCL1616H09	B233
SSBCR1212N09	B233
SSBCR2525M12	B233
SSDCN1212N09	B233
SSDCN1616H09	B233
SSDCN2020K09	B233
SSKCL12CA12	B235
SSKCL2020K12	B234
SSKCR12CA12	B235
SSKCR1616H09	B234
SSKCR16CA12	B235
SSKPR10CA09	B240
SSN2T	D81, D86
SSP025016M	B58–60, B66, B85, B89–90, B105–107, B132, B137, B149–150, B152, B161, B163
SSP025018M	B66, B105–106
SSP8	S126
SSRCL12CA12	B236
SSRCR12CA12	B236
SSRPR10CA09	B241
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STCM20	B61–63, B67–68, B72, B86, B90–91, B95, B108–110, B114, B133–134, B137, B151–153, B164
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STCM26	B153
STCM32	U27–28, U30
STCM37	B139–141
STCM38	B70–72, B92, B115–119, B139–141, B375–378
STCM4	B61–63, B67–68, B91, B108–110, B114, B133–134, B151–152, B170, B172–173, B353–355
STCM40	B72, B92, B115–117, B119
STCM5	B62, B67, B86, B90, B151, B162, B164, B172, B354
STCM8	B72, B115, B119, B170, B173–174, B353–355, B371, B378
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STFCR2525M16	B247
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SUWTCR	E58
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SVVBN3225P16	B268
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SWSM515	S126
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SYB24RBHT06F	K121
SYB30RBHT06F	K121
SYB40RBHT09F	K121
SYB50RBHT09F	K121
SYB66RBHT12F	K121
SYB66RBHT12LF	K121
SYB87RBHT12F	K121
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T15 S	T115, V9–12, V18–19, V21, V93–94, V101–104
T20 S	T118, V101–102, V104
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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T839M120X175R6H-D6 KSU31	M45
T839M140X200R6H-D6 KSP39	M45
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T848NPT05000-14R-D56 KSU30	M79
T848NPT07500-14R-D56 KSU30	M79
T848NPT10000-11,5R-D56 KSU30	M79
T848NPTF00625-27R-D56 KSU30	M79
T848NPTF01250-27R-D56 KSU30	M79
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T848NPTF10000-11,5R-D56 KSU30	M79
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T857G08750-14R-D56 KSP39	M78

Dizin

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
T857G08750-14R-D56 KSU31	M78
T857G10000-11R-D56 KSP39	M78
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TB15	V9, V11–12, V21, V87–89
TB20	V28
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TCDE1000AC5RE KC643M	P42
TCDE1200AC5RF KC643M	P42
TCDE1600A5CRG KC643M	P42
TCDE2000A5CRG KC643M	P42
TCDE2500A5CRG KC643M	P42
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THW2M	T58–59, V72, V78, V137–139
THW3M	U27–35, U40–49
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TM24D16L28Z2	W4
TM24D16L36Z1	W4
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TM25D20L44Z3	W10
TM25D22L43Z3	W10

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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TM25D30L55Z5	W10
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TM25EN12W KC610M	W15
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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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UGDE2500A5BRB KC643M	P37
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UGDE2500A5BRD KC643M	P37
UGDE2500A5BRE KC643M	P37
UGDE2500A5BRP KC643M	P37
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UJBE0700A6CP KCSM15	P62
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UJDE2500A6ARF KCSM15	P48
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Katalog No.	Sayfa(lar):
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VBGW110304S01015MT KBH20	B322
VBGW110304S01225MT KBH20	B322
VBGW110308S01015MT KBH10	B322
VBGW110308S01225MT KBH20	B322
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VBGW160404S01015MT KBH10	B322
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VBGW160408S01015MT KBH20	B322
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Katalog No.	Sayfa(lar):
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VBMT160404MP KCP25	B265
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VBMT160408LF KCM35	B265

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VCMR160404 KCU25	E33
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VCMR160404FP KCM25	E33
VCMR160404FP KCP10	E33
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VCMR160404FP KCU10	E33

Katalog No.	Sayfa(lar):
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VCMR160408 KC5025	E33
VCMR160408 KCM15B	E33
VCMR160408 KCU10	E33
VCMR160408 KCU25	E33
VCMR160408 KT315	E33
VCMR160408FP KCK05	E33
VCMR160408FP KCM25	E33
VCMR160408FP KCP10	E33
VCMR160408FP KCP25	E33
VDIB1M302040C	C67
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VDIB2M302040C	C67
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VDIB6M402544C	C69
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VNGP160402 KC5010	B143

Katalog No.	Sayfa(lar):
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VNMG220408MS KC5025	B146

Dizin

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

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W16	U29, U31, U35
W18	U40–42, U44, U46, U48
W20	U43, U45, U47, U49
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WNMG080408RN KCP40	B159

Sayfa referansları F–X için lütfen bkz. Cilt II • Dönme özellikli takım kataloğu.

Katalog No.	Sayfa(lar):
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WOEJ090512SRGD KCPK30	V41
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WPMT06T304LF KC5010	B272
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XADA1200X5CH45 KCPM15	O48
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XADA1600X6CH60 KCPM15	O48
XDLT090408ERD41 SC6525	V14
XDLT090408ERD41 SP6519	V14
XDLT090408ERD41 X500	V14
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XDLT090412ERD411 SP6519	V15
XDLT090412ERD411 X500	V15
XDLT120508ERD41 SC6525	V23
XDLT120508ERD41 SP6519	V23
XDLT120508ERD41 X500	V23
XDLT120508ERD721 GH2	V23
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XDLT120512ERD411 X500	V24
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XDLW090408SRD SC6525	V16
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XDLW090408SRD X500	V16
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XDLW120508SRD X400	V25
XDLW120508SRD X500	V25
XDPT090408ERD41 KCSM40	V15
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XDPW090412SRD KC522M	V16
XDPW090412SRD KCK15	V16
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XDPW090412SRD KCPM40	V16
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XDPW120515SRD KC522M	V25
XDPW120515SRD KCK15	V25
XDPW120515SRD KCPK30	V25
XDPW120515SRD KCPM40	V25
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XE025MTN4-C SP4060	P72
XE030MTN4-C SP4060	P72
XE040MTN4-C SP4060	P72
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XEPW160520SRD KCPK30	V31
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XPLT060308ERD41 X400	V7
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XPNT2020T306RF SP6519	V105
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XPNT32320612RF SP6519	V105
XPNT4040T716RF SP6519	V105
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XRDA1600X6CRM KCPM15	O49
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ZDET16M540FR721 GH1	T90
ZDET16M550FR721 GH1	T90
ZDET16M560FR721 GH1	T90
ZDET16M5PDFR721 GH1	T90

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Tornalama simgeleri

 Şaft: KM-TS™ (ISO 26622)	 Şaft: KM4X™	 Şaft: VDI Şaft:	 DIN numarası 69880	 İçten soğutmalı takım
 İçten soğutmalı takım: 100 bar	 İçten soğutmalı takım: 1500 psi	 İçten soğutmalı takım: 80 bar	 İçten soğutmalı takım: 1200 psi	 ISO: 26622
 ISO: 10889	 Tornalama	 Profil tornalama	 Alın tornalama	 Alına kanal açama
 Pah kırma	 Tersten delik işleme	 Vida dişi tornalama	 Kanal açma	 Kesme ve dilimleme
 İç çap tornalama	 İç çapta pah kırma	 iç çap alın tornalama	 İç çapta kanal açma	 İç çap alına kanal açma
 Derin kanal açma	 İç çap vida dişi açma			

Delik işleme simgeleri

 Havşa açma/ Darbeli pah kırma	 Konik delik delme	 Delik genişletme	 Delik delme	 Delik delme: Eğimli giriş
 Delik delme: Eğimli çıkış	 Delik delme: Merkezden kaçık çıkış	 Delik delme: Düz uç	 Delik delme: Yığın metal levhalar	 Delik delme: Dışbükey
 Delik delme: Kör delik	 Delik delme: İçbükey	 Delik delme: Zincir	Delik delme: Çapraz delik	Delik delme: Yarı silindir
Delik delme: Dik köşe delik delme 45°	Raybalama: Açık delik	Raybalama: Kör delik	Raybalama: Çakışan açık delikler	Raybalama: Kör ve çakışan delikler
Raybalama: Darbeli kesme	Delik delme derinliği: 1 x D	Delik delme derinliği: 3 x D	Delik delme derinliği: 5 x D	Delik delme derinliği: 8 x D
Delik delme derinliği: 10 x D	Delik delme derinliği: 12 x D	Delik delme derinliği: 7 x D	Delik delme derinliği: 4 x D	Delik delme derinliği: 1.5 x D

(devamı)

(Delik işleme simgeleri — devamı)

 Köşe tipi: Köşe pahı	 Köşe tipi: Dik kenar uç	 Şaft: Silindirik düz	 Şaft: Silindirik düz ≤h6	 Şaft: Silindirik Weldon®
 Şaft: Silindirik Whistle Notch	 Şaft: Silindirik Whistle Notch ≤h6	 Şaft: Silindirik Whistle Notch 2°	 Şaft: Düz bağlama yüzeyli, silindirik	 Düz bağlama yüzeyli şaft
 SK Şaft: Rübig	 Şaft: SK BT JIS B 6339	 Şaft: SK CAT(CV) ANSI B5.50	 Şaft: SK DV DIN 69871	 Şaft: Sürücülü ve flanşlı, silindirik Whistle Notch
 Şaft: Düz ve flanşlı, silindirik	 KM™ Şaft	 Şaft: HSK DIN 69893	 Şaft: HSK DIN 69893 Form A	 Şaft: KM-TS™ (ISO 26622)
 Şaft: KM-XMZ	 Şaft: ER	 Helis açısı: 0°	 Helis açısı: 15°	 Helis açısı: 30°
 Uç açısı: 118°	 Uç açısı: 130°	 Dengeleme (G 6.3/25,000)	 Dengeleme (G 6.3/10,000)	 Dengeleme (G 6.3/6,000)
 Dengeleme (G 16/20,000)	 DIN numarası 6537	 DIN numarası 6535	 DIN numarası 69893	 DIN numarası 69090-3
 Delik delme: Soğutma sıvısı kullanılmaz	 İçten soğutmalı: Radyal: Delik delme	 İçten soğutmalı: Radyal: Raybalama	 İçten soğutmalı: Radyal: Değiştirilebilir kesici uçlu matkaplar	 Dıştan soğutmalı: Delik delme
İçten soğutmalı: MQL (Az miktarda yağlama): Delik delme	İçten soğutmalı: Eksenel: Delik delme	İçten soğutmalı: Eksenel: Raybalama	İçten soğutmalı: Soğutma sıvısı girişi AD	İçten soğutmalı: Soğutma sıvısı girişi AD/B
Takım ölçüleri: 2 Kanal/2 Kenar boşluğu/ İçten soğutmalı	Takım ölçüleri: 2 Kanal/2 Kenar boşluğu/ Dıştan soğutmalı	Takım ölçüleri: 2 Kanal/3 Kenar boşluğu/ İçten soğutmalı	Takım ölçüleri: 2 Kanal/4 Kenar boşluğu/ İçten soğutmalı	Takım ölçüleri: 2 Kanal/4 Kenar boşluğu/ Dıştan soğutmalı
Takım ölçüleri: 2 Kanal/4 Kenar boşluğu/ X/İçten soğutmalı	Takım ölçüleri: 3 Kanal/3 Kenar boşluğu/ İçten soğutmalı	Takım ölçüleri: 3 Kanal/3 Kenar boşluğu/ Dıştan soğutmalı	Takım ölçüleri: Kanal yapılandırma: 2	Takım ölçüleri: Kanal yapılandırma: 3
Takım ölçüleri: Kanal yapılandırma: 4				

Vida dişi açma simgeleri

 Havşa açma/Darbeli pah kırma	 Delik delme: Düz uç	 Delik delme: Kör delik	 Vida dişi açma: Açık delik	 Vida dişi tornalama: Kör delik
 Vida dişi açma: Açık delik	 HSS-E: Yüksek sertlikte malzemeler için kobalt alaşımlı yüksek hız çeliği	 HSS-E-PM: Yüksek sertlikte malzemeler için kobalt alaşımlı yüksek hız çeliği (PM = Toz metal çelik)	 HM: (Karbür)	 Delik delme derinliği: 2 x D
 Ağızlama pahı Form B (3.5–5.5)	 Ağızlama pahı Form C (2-3)	 Ağızlama pahı Form D (3,5-5)	 Ağızlama pahı Form E (1,5-2)	 Yarı ağızlama pahı Form B (3-5)
 Vida dişi açma Helis açısı: 0°	 Vida dişi açma Helis açısı: 10°	 Vida dişi açma Helis açısı: L8°	 Vida dişi açma Helis açısı: 15°	 Vida dişi açma Helis açısı: L15°
 Vida dişi açma Helis açısı: 25°	 Vida dişi açma Helis açısı: 30°	 Vida dişi açma Helis açısı: 42°	 Vida dişi açma Helis açısı: 45°	 Çok amaçlı kılavuzlar: Helisel uç
TC Basma/Çekme	DIN 371 DIN numarası 371	DIN 374 DIN numarası 374	DIN 376 DIN numarası 376	DIN 5156 DIN numarası 5156
DIN 2174 DIN numarası 2174	 İçten soğutmalı: Radyal: Vida dişi açma	 Dıştan soğutmalı: Vida dişi açma	 İçten soğutmalı: Eksenel: Vida dişi açma	ISO 2 Üreticinin teknik özellikleri: ISO 2
ISO 3 Üreticinin teknik özellikleri: ISO 3	JIS Üreticinin teknik özellikleri: JIS	2B Uygunluk sınıfı: 2B	3B Uygunluk sınıfı: 3B	6H Uygunluk sınıfı: 6H
6HX Uygunluk sınıfı: 6HX	6G Uygunluk sınıfı: 6G	2BX Uygunluk sınıfı: 2BX	3BX Uygunluk sınıfı: 3BX	UNF Tekdüze (Unified) ince vida dişi
UNC Tekdüze (Unified) kaba vida dişi	NPT Dryseal (sızdırmazlık contalı) malzemeli vida dişleri için Amerikan konik boru vida dişi	NPTF Dryseal (sızdırmazlık contası olmayan) malzemesiz vida dişleri için Amerikan konik boru vida dişi	G Whitworth Boru vida dişi	UNJC Tekdüze (Unified) kaba vida dişi: J Profil
UNJF Tekdüze (Unified) ince vida dişi: J Profil	M ISO Metrik kaba vida dişi	MF ISO Metrik ince vida dişi		

Karbür parmak freze simgeleri

 Yüzey frezeleme	 Helisel frezeleme	 Dalma frezeleme	 Dalma frezeleme: Küresel başlı	 Rampalama (eğimli işleme): Taslak
 Rampalama (eğimli işleme): 3° ye kadar	 Kanal açma: Küresel başlı	 Kanal açma: AP Ölçülü küresel başlı	 Kanal açma: Dik kenar uç	 Kanal açma: AP Ölçülü dik köşeli uç
 Yuvarlanma eğrisi yaparak (trokoit) frezeleme	 Yuvarlanma eğrisi yaparak (trokoit) frezeleme: Küresel başlı	 Kenar frezeleme/ Dik kenar frezeleme: Küresel başlı	 Kenar frezeleme/ Dik kenar frezeleme: AE/AP Ölçülü küresel baş	 Kenar frezeleme/ Dik kenar frezeleme: Dik kenar uç
 Kenar frezeleme/ Dik kenar frezeleme: AE/AP Ölçülü dik kenarlı uç	 Kenar frezeleme/ Dik kenar frezeleme: Yuvarlatılmış pah	 Kenar frezeleme/ Dik kenar frezeleme: AE/AP Ölçülü yuvarlatılmış pah	 Kenar frezeleme/ Dik kenar frezeleme: Son derece hassas son işleme	 Kenar frezeleme/ Dik kenar frezeleme: AE/AP Ölçülü çok hassas son işleme
 Kenar frezeleme/ Dik kenar frezeleme: Hassas son işleme	 Kenar frezeleme/ Dik kenar frezeleme: AE/AP Ölçülü hassas son işleme	 Kenar frezeleme/ Dik kenar frezeleme: İnce duvar karbür parmak frezeleme	 Kenar frezeleme/ Dik kenar frezeleme: Radyüs	 Kenar frezeleme/ Dik kenar frezeleme: AE/AP Ölçülü radyüs
 3D Profil işleme	 AE/AP Ölçülü 3D Profil işleme	 Dik kenar uçlu parmak freze ile 3D profil işleme	 Köşe tipi: Küresel başlı	 Köşe tipi: Köşe pahı
 Köşe tipi: Köşe radyüsü	 Köşe tipi: Dik kenar uç	 Köşe tipi: Torus	 Şaft: Silindirik düz	 Şaft: Silindirik Weldon®
 Şaft: SK BT JIS B 6339	 Şaft: SK CAT(CV) ANSI B5.50	 Şaft: HSK: CAT: Çekme çubuğu vida dişi: 5/8–11 UNC	 Şaft: HSK A/ DIN69893	 Şaft: Safe-Lock™ ≤h6
Şaft: Safe-Lock™	Şaft: PSC Şaft	Duo-Lock™ Bağlantı	Helis açısı: 0°	Helis açısı: 15°
Helis açısı: 20°	Helis açısı: 25°	Helis açısı: 30°	Helis açısı: 35°	Helis açısı: 38°
Helis açısı: 40°	Helis açısı: 45°	Helis açısı: 50°	Helis açısı: 60°	Helis açısı: 43°
Helis açısı: 36°	Helis açısı: 35°/38°	Helis açısı: 37°/39°	Dengeleme (G 2.5/25,000)	DIN numarası 6527
DIN numarası 6528	Delik delme: İçten soğutmalı	İçten soğutmalı	İçten soğutmalı: Eksenel: Karbür parmak freze	Takım ölçüleri: Kanal yapılandırma: X (Değişken)

(devamı)

(Karbür parmak freze simgeleri — devamı)

Takım ölçüleri: Kanal yapılandırma: 2	Takım ölçüleri: Kanal yapılandırma: 3	Takım ölçüleri: Kanal yapılandırma: 4	Takım ölçüleri: Kanal yapılandırma: 5	Takım ölçüleri: Kanal yapılandırma: 6
Takım ölçüleri: Kanal yapılandırma: 1	Takım ölçüleri: Kanal yapılandırma: 12	ISO 26622		

Değiştirilebilir kesici uçlu frezeleme simgeleri

Delik genişletme	Spiral dairesel	Yüzey frezeleme	Helisel frezeleme	Dalma frezeleme
Dalma frezeleme: Küresel başlı	Rampalama (eğimli işleme): Taslak	Kanal açma: Küresel başlı	Kanal açma: Kenar	Kanal açma: AE/AP Ölçülü kenar
Kanal açma: Kenar frezeleme: Küresel başlı	Kanal açma: Dik kenar uç	Kanal açma: T	Kanal açma: AP Ölçülü T	Kenar frezeleme/ Dik kenar frezeleme: Küresel başlı
Kenar frezeleme/ Dik kenar frezeleme: Taban dik kenar işleme	Kenar frezeleme/ Dik kenar frezeleme: Dik kenar uç	Kenar frezeleme/ Dik kenar frezeleme: Yuvarlatılmış pah	Kanal açma: Dik kenar profil işleme	Kanal açma: Dik kenar
3D Profil işleme	Dik kenar uçlu parmak freze ile 3D profil işleme	PCD Takım	Cep boşaltma	Şaft: Silindirik düz
Şaft: Silindirik Weldon®	Şaft: Silindirik Weldon 2 Düz	Şaft: Vidalı	Şaft: HSK DIN 69893	Alın Freze Şaftı
Frezeleme: İçten soğutmalı	İçten soğutmalı: Basınçlı hava soğutma: Radyal: Değiştirilebilir kesici uçlu frezeleme			

P	Çelik	N	Demir dışı metaller	H	Sertleştirilmiş malzemeler
M	Paslanmaz çelik	S	Isıl dirençli alaşımlar	C	CFRP Malzemeler
K	Dökme demir				

Malzeme grubu	Tanımlama	İçerik	Çekme mukavemeti RM (MPa)*	Sertlik (HB)	Sertlik (HRC)	Malzeme numarası
P0	Düşük karbonlu çelikler, uzun talaş veren	C <%0,25	<530	<125	–	–
P1	Düşük karbonlu çelikler, kısa talaş veren, kolay işlenebilir	C <%0,25	<530	<125	–	C15, Ck22, ST37-2, S235JR, 9SMnPb28, GS38
P2	Orta ve yüksek karbon çelikleri	C >%0,25	>530	<220	<25	ST52, S355JR, C35, GS60, Cf53
P3	Alaşım çelikler ve Takım çelikleri	C >%0,25	600–850	<330	<35	16MnCr5, Ck45, 21CrMoV5-7, 38SMn28
P4	Alaşım çelikler ve Takım çelikleri	C >%0,25	850–1400	340–450	35–48	100Cr6, 30CrNiMo8, 42CrMo4, C70W2, S6525, X120Mn12
P5	Ferritik, Martensitik ve PH Paslanmaz çelikler	–	600–900	<330	<35	100Cr6, 30CrNiMo8, 42CrMo4, C70W2, S6525, X120Mn12
P6	Yüksek dayanımlı ferritik, Martensitik ve PH Paslanmaz çelikler	–	900–1350	350–450	35–48	X102CrMo17, G-X120Cr29
M1	Ostenitik paslanmaz çelik	–	<600	130–200	–	X5CrNi 18 10, X2CrNiMo 17 13 2, G-X25CrNiSi18 9, X15CrNiSi 20 12
M2	Yüksek dayanımlı ostentik paslanmaz ve Döküm paslanmaz çelikler	–	600–800	150–230	<25	X2CrNiMo 13 4, X5NiCr 32 21, X5CrNiNb 18 10, G-X15CrNi 25-20
M3	Dupleks paslanmaz çelik	–	<800	135–275	<30	X8CrNiMo27 5, X2CrNiMoN22 5 3, X20CrNiSi25 4, G-X40CrNiSi27 4
K1	Gri dökme demir	–	125–500	120–290	<32	GG15, GG25, GG30, GG40, GTW40
K2	Düşük ve orta dayanımlı düktil demirler (Küresel grafitli (GJS) demirler) ve Sıkıştırılmış (yoğun) grafitli demirler (CGI)	–	<600	130–260	<28	GGG40, GTS35
K3	Yüksek dayanımlı düktil demirler ve Ostenit menevişli düktil demir (ADI)	–	>600	180–350	<43	GGG60, GTW55, GTS65
N1	İşlenmiş alüminyum	–	–	–	–	AlMg1, Al99.5, AlCuMg1, AlCuBiPb, AlMgSi1, ALMgSiPb
N2	Düşük silikon alüminyum alaşımlar ve Magnezyum alaşımlar	Si <%12.2	–	–	–	GAlSiCu4, GDAlSi10Mg
N3	Yüksek silikon alüminyum alaşımlar ve Magnezyum alaşımlar	Si >%12.2	–	–	–	G-ALSi12, G-AlSi17Cu4, G-AlSi21CuNiMg
N4	İşlenebilirlik dizini 70–100 aralığında Bakır, Pirinç, Çinko esaslı	–	–	–	–	CuZn40, Ms60, G-CuSn5ZnPb, CuZn37, CuSi3Mn
N5	Naylon, Plastikler, Lastikler, Fenolikler, Reçineler, Cam elyaf	–	–	–	–	Lexan®, Hostalen™, Polistirol, Makrolon®
N6	Karbon, Grafitli kompositler, CFRP	–	–	–	–	CFK, GFK
N7	Metal anayapılı karmalar (MMC)	–	–	–	–	–
S1	Demir esaslı alaşımlar, Isıl dirençli alaşımlar	–	500–1200	160–260	25–48	X1NiCrMoCu32 28 7, X12NiCrSi36 16, X5NiCrAlTi31 20, X40CoCrNi20 20
S2	Kobalt esaslı alaşımlar, Isıl dirençli alaşımlar	–	1000–1450	250–450	25–48	Haynes® 188, Stellite® 6,21,31
S3	Nikel esaslı alaşımlar, Isıl dirençli alaşımlar	–	600–1700	160–450	<48	INCONEL® 690, INCONEL 625, Hastelloy®, NIMONIC® 75
S4	Titanyum ve Titanyum alaşımları	–	900–1600	300–400	33–48	Ti1, TiAl5Sn2, TiAl6V4, TiAl4Mo4Sn2
H1	Sertleştirilmiş malzemeler	–	–	–	44–48	GX260NiCr42, GX330NiCr42, GX300CrNiSi952, GX300CrMo153, Hardox® 400
H2	Sertleştirilmiş malzemeler	–	–	–	48–55	–
H3	Sertleştirilmiş malzemeler	–	–	–	56–60	–
H4	Sertleştirilmiş malzemeler	–	–	–	>60	–
C1	CFRP, CFRP/CFRP	–	–	–	–	–
C2	CFRP/Demir dışı	–	–	–	–	–
C3	CFRP/Isıl direnç	–	–	–	–	–
C4	CFRP/Paslanmaz çelik	–	–	–	–	–
C5	CFRP/Demir dışı malzemeler/Isıl direnç	–	–	–	–	–

P0 İş parçası malzeme listesi • Çelik • P0

P0 Düşük karbonlu çelikler, uzun talaş veren *İçerik: C <%0,25* *Çekme mukavemeti RM (MPa)*: <530* *Sertlik (HB): <125*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
1013	USt 34-1	–	–	G10130	–	–	–	1233	–	–	1.0055	–
1010	C 10	045 M 10	S 10 C	G10100	C 10	XC 10	C 10	–	–	–	1.0301	–
1008	DD 11 (StW 22)	HR 3	SPHD	–	DD 11	1 C	–	–	–	–	1.0332	–
1020	C 22	050 A 20	S 22 C	G10200	1 C 22	C 20	C 20	1450	–	–	1.0402	–
1025	C 25	070 M 26	S 22 C	G10250	1 C 25	C 25	C 25	–	–	–	1.0406	–
1012	B 500 H	–	S 12 C	G10120	B 500 B	XC 12	B 500 B	1332	–	–	1.0439	–
1018	C16.8	080 A 17	–	G10180	–	–	–	–	–	–	1.0453	–
1108	10 S 20	210 M 15	–	G 11080	10 S 20	10 F 1	CF 10 S 20	–	–	–	1.0721	–
1010	Ck 10	040 A 10	S 10 C	G10100	2 C 10	XC 10	C 10	1265	–	–	1.1121	–
1022	20 Mn 5	120 M 19	SMn 420	G 10220	20 Mn 5	20 M 5	G 22 Mn 3	–	–	–	1.1133	–
1015	Ck 15	080 M 15	S 15 C	G 10150	2 C 15	XC 15	C 15	1370	–	–	1.1141	–
1021	22 B 2	–	SWRCHB 220	G10210	C 22 BE 69	21 B 3	–	–	–	–	1.5508	–
–	PS 275 TM	S 275 M	–	–	S 275 M	S 275 M	S 275 M	–	–	–	1.8818	–
–	DI-MC 355 B	–	–	–	S 355 M	E 355	S 355 M	–	–	–	1.8823	–
–	DI-MC 420 B	S 420 M	–	–	S 420 M	E 420	S 420 M	–	–	–	1.8825	–
–	S 460 M	S 460 M	–	–	S 460 M	E460; S460M	S460M	–	–	–	1.8827	–
–	BTStE 355 TM	S 355 ML	–	–	S 355 ML	E 355	S 355 ML	–	–	–	1.8834	–
–	BTStE 420 TM	S 420 MI	–	–	S 420 ML	E 420	S 420 ML	–	–	–	1.8836	–
–	St E 320-3Z	–	–	–	S 320 GD + ZA	–	–	–	–	–	1.0250	–

P1 İş parçası malzeme listesi • Çelik • P1

P1 Düşük karbonlu çelikler, kısa talaş veren, kolay işleme *İçerik: C <%0,25* *Çekme mukavemeti RM (MPa)*: <530* *Sertlik (HB): <125*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	R St 34-2/ S 205 G2T	34/20CR	–	K02502	–	–	–	–	–	–	1.0034	–
–	St 33	HR 15	SS 330	K01400	–	A 33	Fe 320	–	–	–	1.0035	–
A 570 Gr. 33	USt 37-2	4360-40 B	SS 34	K 02502	S 235 JR G1	E 24-2	Fe 360 BFU	1311	–	–	1.0036	–
–	St 37-2	HS 37/23	STKR 400	K02702	S 235 JR	E 28-2	Fe 430 C	1412	–	–	1.0037	–
A 570 Gr. 36	R St 37-2/S235 JRG2	4260-40 C	SS 34	K 02502	S235 JR G 2	E 24-2 NE	Fe 360 BFN	1312	–	–	1.0038	–
–	S 235 JRH	S 235 JRH	–	–	S235JRH	E 24-2	S 235 JRH	–	–	–	1.0039	–
–	R St 42-1	–	–	K02507	–	–	–	–	–	–	1.0077	–
–	S235J2G3/Fe 360 D1	S 235 J 2 G 3	–	K01501	S 235 J2 G3	E 24-4	S 235 J2G3	1313	–	–	1.0161	–
–	C 10 Pb	–	–	–	C 10 GPb	–	–	–	–	–	1.0302	–
–	QSt 32-3	–	SWRCH6R	–	CB 4 FF KD	–	CB 4 F U	–	–	–	1.0303	–
–	St 35,8	–	STPT 38	K01201	–	–	–	–	–	–	1.0305	–
–	St 37-2	360	STKM 12 A	K02504	S 235 JR	E 24-2	Fe 360	1412	–	–	1.0308	–
–	C10D	–	SWRM 10	–	C 10 D	FM 10	C 10 D	–	–	–	1.0310	–
–	C12D	–	SWRM 12	–	C 12 D	–	C 12 D	–	–	–	1.0311	–
–	R St 15	FeP05	–	–	Fe P05	FeP05	FeP05	–	–	–	1.0312	–
–	D 6-2	0 1 5 A 03	SWRM 6	G10050	C 4 D	–	3 CD 5	–	–	–	1.0314	–
–	St 37,8	–	STB 35	–	–	–	Fe 37	–	–	–	1.0315	–
–	St 13	CR 3	SPCD	–	–	–	–	–	–	–	1.0333	–
–	D D 13 (StW 24)	H S 3	SPHE	–	D D 13	3C	–	–	–	–	1.0335	–
–	USt 4/DC 04 G	–	–	–	D C 04 G 1	–	–	–	–	–	1.0336	–
–	Ro St 4/DC 04 GT	–	–	–	DC 04 GT	–	–	–	–	–	1.0337	–
–	St 4	DC 04/FeP04	SPCE	–	Fe P04	Fe 14	DC04/FeP04	–	–	–	1.0338	–
–	DC01Cu	–	–	–	DC 01 Cu	–	–	–	–	–	1.0344	–
–	RR St 3	CR 3	SPCD	–	Fe P03	F 13	DC 03/FeP 03	–	–	–	1.0347	–
–	U H I/P 195GH	–	SGV 480	–	P 195 Gh	–	–	–	–	–	1.0348	–
–	St 14 Cu 3	–	–	–	DC 04 Cu	–	–	–	–	–	1.0354	–
–	–	3 CR	–	–	D D 12	D D 12	–	–	–	–	1.0398	–
1015	C 15	080 M 15	S 15 C	G10170	C 15	C 12	C 15	1350	–	–	1.0401	–
–	LSt 45.8	–	–	–	C 16	–	C 16	–	–	–	1.0407	–
–	C15D	–	SWRM 15	–	C 15 D	FM 15	C 15 D	–	–	–	1.0413	–
–	C20D	–	SWRM 20	–	C 20 D	FM 20	C 20 D	–	–	–	1.0414	–
–	C26D	–	SWRH 27	–	C 26 D	FM 26	C 26 D	–	–	–	1.0415	–
–	C18D	–	SWRM 17	–	C 18 D	FM 18	C 18 D	–	–	–	1.0416	–
–	RSt 44-2	440	–	G10160	–	–	–	–	–	–	1.0419	–
–	P265 NB	–	SG 295	–	P 265 NB	BS 2	–	–	–	–	1.0423	–
–	P 265 GH	151-400	SG 30	K02801	P 265 GH	A42CP	P 265 GH	1430	–	–	1.0425	–
–	C 22,3	–	–	–	C 22 G 1	–	–	–	–	–	1.0427	–
–	BSt 420 S	–	–	–	Fe B 400	–	–	–	–	–	1.0428	–
–	C 21	–	SFVC 1	K03504	P 305 GH	–	–	–	–	–	1.0432	–
–	GS-45	A1	SC 450	J03001	GE 230	E23-45M	–	1305	–	–	1.0446	–
–	TStE 275 (S 275 NL)	40EE	–	–	S 275 NL	S 275 NL	S 275 NL	–	–	–	1.0491	–
–	St 42,8	–	STPT 42	–	–	–	Fe 42	–	–	–	1.0498	–
–	S 335 N (StE 355)	50 E	–	–	S 355 N	E 355	S 355 N	2134	–	–	1.0545	–
–	S 355 NL (TStE 355)	50 E E	–	–	S 355 NL	E 355	S 355 N L	2135	–	–	1.0546	–
–	R 7 S 6/C 7 RG 2	–	–	–	C 7 RG 2	–	–	–	–	–	1.0709	–
B1112	9 S 20	220 M 07	SUM 21	G 11120	–	–	CF 9 S 22	–	–	–	1.0711	–
1213	9 SMn 28/11 SMn 30	230 M 07	SUM 22	G 12130	11 SMn 28	S 250	CF 9 SMn 28	1912	–	–	1.0715	–
12L13	9 SMnPb 28	–	SUM 22 L	G 12134	11 SMnPb 28	S 250 Pb	CF 9 SMnPb 28	1914	–	–	1.0718	–
–	15 S 22/15 S 20	En32M	SUM 32	–	15 S 22	–	–	1922	–	–	1.0723	–
–	15 SMn 13	15 SMn 13	–	–	15 SMn 13	15 SMn 13	–	–	–	–	1.0725	–
1215	9 SMn 36/11 S Mn 37	240 M 07	SUM 25	G 12150	11 SMn 37	S 300	CF 9 SMn 36	–	–	–	1.0736	–
12L14	9 SMnPb 36/11 SMnPb 37	–	–	G 12144	11 SMnPb 37	S 300 Pb	CF 9 SMnPb 36	1926	–	–	1.0737	–
–	11 SMnPbTe 37	11 SMn 37	–	–	11 SMn 37	–	–	–	–	–	1.0738	–
–	15 SPb 20/15 SPb 22	–	–	–	15 SPb 22	–	–	–	–	–	1.0753	–
–	36 SMn 14	36SMn14	–	–	36SMn14	36SMn14	–	–	–	–	1.0764	–
–	C10D2	–	–	–	C 10 D 2	FM 10	C 10 D 2	–	–	–	1.1114	–
–	Cq 10 (C 10 C)	–	SWRCH 10 K	–	C 10 KD	–	–	–	–	–	1.1122	–
–	C15D2	–	–	–	C 15 D 2	FM 15	C 15 D 2	–	–	–	1.1126	–
–	C 18D2	–	–	–	C 18 D 2	FM 18	C 18 D 2	–	–	–	1.1129	–

(devamı)

P1 İş parçası malzeme listesi • Çelik • P1 *(devamı)*

P1 Düşük karbonlu çelikler, kısa talaş veren, kolay işleme *İçerik: C <%0,25* *Çekme mukavemeti RM (MPa)*: <530* *Sertlik (HB): <125*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	GS-16 Mn 5	–	–	–	G 17 Mn 5	G 17 Mn 5	G17Mn5	–	–	–	1.1131	–
–	C20D2	–	–	–	C 20 D 2	FM 20	C20D 2	–	–	–	1.1137	–
–	C26D2	–	–	–	C 26 D 2	FM 26	C26D 2	–	–	–	1.1139	–
–	GC 16 E/GS-Ck 16	–	–	–	GC 16 E	–	–	–	–	–	1.1142	–
–	C 16 E	C 16 E	–	–	C 16 E	XC 18	–	–	–	–	1.1148	–
–	Cm 22	070 M 20	C 22 R (3 C 22)	–	3 C 22	XC 18 u	C 22 R	–	–	–	1.1149	–
–	Ck 22	050 A 20	S 22 C	G10230	2 C 22	XC 25	C 20	–	–	–	1.1151	–
–	Cq 22	–	SWRCH20K	–	C 21 KD	–	CB 20 FF	–	–	–	1.1152	–
–	Ck 25	070 M 26	S 25 C	G10250	2 C 25	XC 25	C 25	–	–	–	1.1158	–
–	C2D1	–	–	–	C 2 D 1	–	C 2 D 1	–	–	–	1.1185	–
–	19 MnVS 6	–	–	–	19 MnVS 6	–	–	–	–	–	1.1301	–
–	PS 275 TM	S 275 M	–	–	S 275 M	S 275 M	S 275 M	–	–	–	1.8818	–
–	DI-MC 355 B	–	–	–	S 355 M	E 355	S 355 M	–	–	–	1.8823	–
–	DI-MC 420 B	S 420 M	–	–	S 420 M	E 420	S 420 M	–	–	–	1.8825	–
–	S 460 M	S 460 M	–	–	S 460 M	E460;S460M	S460M	–	–	–	1.8827	–
–	BTStE 355 TM	S 355 ML	–	–	S 355 ML	E 355	S 355 ML	–	–	–	1.8834	–
–	BTStE 420 TM	S 420 MI	–	–	S 420 ML	E 420	S 420 ML	–	–	–	1.8836	–
–	S 235 J 0 W (Allwesta 360)	S 235 J 0 W	SMA 400 BW	–	S 235 J0 W	S 235 J 0 W	–	–	–	–	1.8958	–
–	S 355 J 0 W (Allwesta 510)	WR 50 B	SMA 490 BW	–	S 235 J0 W	E24W-3	S 235 J0 W	–	–	–	1.8959	–
–	WTSt 37-2/S235JRW	WR 50 B	SMA 41 A	K11538	S 235 JR W	E 24 W-2	–	–	–	–	1.8960	–
–	WTSt 37-3	WR 50 C	SMA 50 A	–	S 235 J2 W	S 235 J 2 W	Fe 360 D FF	–	–	–	1.8961	–
–	USt 42-2	–	SS 41	–	–	HS 18-0-2-10	–	–	–	–	1.0040	–
–	St 37-2	–	–	–	S 235 JRC	E 24-2	S 235 JRC	–	–	–	1.0120	–
–	S 235 JR G1F	–	–	–	S 235 JRG 1 F	–	–	–	–	–	1.0160	–
–	St 12	DC 01/Fe P01	SPCC	–	Fe P01	DC 01/fe P01	DC 01/FeP0 1	–	–	–	1.0330	–
–	GS-38	A1	–	–	GE 200	230-400M	–	1306	–	–	1.0420	–
–	GS-20 Mn 5	–	SMnC 420	H15220	–	–	–	–	–	–	1.1120	–
–	G 20 Mn 5	–	–	–	G 20 Mn 5	–	G 20 Mn 5	–	–	–	1.6220	–

P2 İş parçası malzeme listesi • Çelik • P2

P2 Orta ve yüksek karbon çelikleri *İçerik: C >%0,25* *Çekme mukavemeti RM (MPa)*: >530* *Sertlik (HB): <220 (HRC): <25*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	S 355 JR	En 50 B	SM 490 YA	–	S 1207	E36-2	Fe 510 BFN	–	–	–	1.0045	–
1035	C 35	060 A 35	S 35 C	G 10350	1 C 35	CC 35	C 35	1550	–	–	1.0501	–
1045	GS-C 45	080 M 46	S 45 C	G10450	1 C 45	CC 45	C 45	1650	–	–	1.0503	–
1040	C 40	080 M 40	S 40 C	G 10 400	1 C 40	C 40	C 40	–	–	–	1.0511	–
1046	S 355 K 2 G 4 Cu	–	–	G10460	S 355 K2 G4 Cu	–	–	–	–	–	1.0519	–
1030	C30	080 M 30	SUP 7	G 10 300	1 C 30	C C 32	C 30	–	–	–	1.0528	–
1055	C 55	070 M 55	S 55 C	J05000	1 C 55	C 55	C 55	1655	–	–	1.0535	–
1551	C 50 Pb	–	–	G15510	C 50 G Pb	–	–	–	–	–	1.0542	–
–	GS-60	A3	–	–	GE 300	320-560M	C 45	1606	–	–	1.0558	–
1037	36 Mn4	170 H 36	–	G10370	–	–	–	–	–	–	1.0561	–
–	PSt 52-3 (S 355 J2 G3 F)	–	–	–	S 355 J2 G3 F	–	FE 510 C	–	–	–	1.0572	–
–	S 355 J2H (RoSt 52-3)	50D	–	–	S355J2H	–	S355J2H	–	–	–	1.0576	–
1060	C 60	080 A 62	S 60 C-CSP	G 10600	1 C 60	AF 70 C 55	C 60	–	–	–	1.0601	–
1070	C 67	CS 70	S 70 C -CSP	G10700	1 CS 67	C 68	C 67	–	–	–	1.0603	–
1074	C 75	CS 80	–	G10740	1 CS 75	C 75	C 75	–	–	–	1.0605	–
1059	C58D	–	S 58 C	G10590	C 58 D	FM 58	C 58 D	–	–	–	1.0609	–
1075	C76D	–	–	G10750	C 76 D	FM 76	C 76 D	–	–	–	1.0614	–
1080	C86D	CS 80	–	G10860	C 86 D	FM 86	C 86 D	–	–	–	1.0616	–
1095	C92D	95 CS	–	G10950	C 92 D	–	C 92 D	–	–	–	1.0618	–
1110	U 10 S 10	–	SUM 12	G11100	–	–	–	–	–	–	1.0702	–
11L08	10 SPb 20	–	–	G 11084	10 SPb 20	10 Pb F 2	CF 10 SPb 20	–	–	–	1.0722	–
1140	35 S 20	212 M 36	–	G 11400	35 S 20	35 MF 4	–	1957	–	–	1.0726	–
1146	45 S 20	212 M 44	–	G 11460	45 S 20	45 MF 4	–	1973	–	–	1.0727	–
1151	60 S 20	–	–	G11510	60 S 20	60 MF 4	–	–	–	–	1.0728	–
1141	36 Mn 6	212 M 36	S Mn 443	G 11410	–	–	–	–	–	–	1.1127	–
1039	40 Mn 4	150 M 36	–	G10390	–	35 M 5	–	–	–	–	1.1157	–
1536	34 Mn 5	En15B	SS 55	G15360	–	–	–	–	–	–	1.1166	–
1030	Cq 35	–	F.1133 (C 35 DF)	G 10300	C 35 KD	–	CB 35	–	–	–	1.1172	–
1034	Ck 34	080 M 34	S 34 C	G 10340	2 C 34	–	C 34	–	–	–	1.1173	–
1038 H	Ck 38	–	–	G 10380	–	XF 38	–	–	–	–	1.1176	–
1030	Ck 30	080 M 30	S 30 C	G 10300	2 C 30	XC 32	C 30	–	–	–	1.1178	–
1034	Ck 35	080 M 36	S 35 C	G 10340	2 C 35	XC 38 H1	C 35	1572	–	–	1.1181	–
1035	Cf 35	060 A 35	S 35 C	G 10350	C 35 G	XC 38 TS	C 35	1572	–	–	1.1183	–
1040	Ck 40	080 A 40	S 40 C	G 10400	2 C 40	XC 42 H1	C 40	–	–	–	1.1186	–
1045	Cf 45	060 A 47	S 45 C	G10450	C 45 G	XC 42 TS	C 43	1672	–	–	1.1193	–
1055	Ck 55	070 M 55	S 55 C	G10550	2 C 55	XC 55 H1	C 55	1655	–	–	1.1203	–
1050	Ck 50	080 M 50	S 50 C	G10500	2 C 50	XC 48 H1	C 50	1674	–	–	1.1206	–
1055	Cm 55	070 M 55	–	G 10550	3 C 55	XC 55 H1	C 55 R	–	–	–	1.1209	–
1053	Ck 53	En43C	S 53 C	G 10530	–	–	–	–	–	–	1.1210	–
1050	Cf 53	060 A 57	S 50 C	G 10500	C 53 G	XC 48 TS	C 48	1674	–	–	1.1213	–
1060	Ck 60	060 A 62	S 58 C	G 10640	2 C 60	XC 60	C 60	1678	–	–	1.1221	–
1552	52 Mn 5	–	–	G15520	–	–	–	–	–	–	1.1226	–
1065	FD (Yay çeliği teli)	095 A 65	–	G10650	C 68 D	–	–	–	–	–	1.1230	–
1070	Ck 67	060 A 67	S 70 C-CSP	G 10700	C 67 S	XC 68	C 70	1770	–	–	1.1231	–
1069	Ck 68	–	–	G10690	C 70 D	–	–	–	–	–	1.1234	–
1080	Ck 75	060 A 78	C 75	G 10800	C 75 S	XC 75	C 75	1774	–	–	1.1248	–
–	Cf 70	–	–	–	C 70 G	XC 70	–	–	–	–	1.1249	–
1090	Ck 85	–	SK 5 -CSP	G 10900	C 85 S	XC 90	C 90	–	–	–	1.1269	–
1085	90 Mn 4	080 A 83	SUP4	G 10850	–	–	–	–	–	–	1.1273	–
1095	Ck 101	060 A 96	SUP_4	G 10950	C 100 S	XC 100	C 100	1870	–	–	1.1274	–
1050	C 50	080 M 50	S 50 C	G 10 500	1 C 50	C 50	C 50	1674	–	–	1.0540	–
–	St 52-3 G	4360-50 B	SM 50 YB	–	S 355 J 2 G 3	E 36-3	Fe 510 B	2132	–	–	1.0570	–
1078	C78D	–	SWRH 77 B	G10780	C 78 D	FM 78	C 78 D	–	–	–	1.0620	–
1035	Cm 35	080 M 36	–	G 10350	3 C 35	38 H1 k	C 35 R	1572-03	–	–	1.1180	–
1566	66 Mn 4	–	–	G15660	–	–	–	–	–	–	1.1260	–
1084	C 85 W	–	SK 5	G10840	C 90 U	Y3 90	–	–	–	–	1.1830	–

NOT: Etiket için, bkz. sayfa Y217.

P3 İş parçası malzeme listesi • Çelik • P3

P3 Alaşımlı çelikler ve Takım çelikleri *İçerik: C >%0,25* *Çekme mukavemeti RM (MPa)*: 600–850* *Sertlik (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
1330	GS-30 Mn 5	120 M 36	SMn 433 H; SCMn 2	K13300	–	35 M 5	–	1330	–	–	1.1165	–
1330	28 Mn 6	150 M 28	SCMn 1	G 13300	28 Mn 6	35 M 5	C 28 Mn	–	–	–	1.1170	–
1335	36 Mn 5	150 M 36	SMn 438(H)	G13350	–	40 M 5	–	2120	–	–	1.1167	–
1345	StSch 90 C/GP 280 GH	–	–	G13450	GP 280 GH	GP 280 GH	GP 280 GH	–	–	–	1.0625	–
1513	P265	HR 40/30	–	G15130	–	12 M 5	–	–	–	–	1.0424	–
4142	43 CrMo 4	–	–	G41420	–	43 Cr Mo 4	–	–	–	–	1.3563	–
4147	48 CrMo 4	817 M 40	SNC 836	H41470	–	48 CrMo 4	–	–	–	–	1.3565	–
4419	GS-22 Mo 4	243-430	SCPH 11	G44190	G 20 Mo 5	G20Mo5	G 22 Mo 5	–	–	–	1.5419	–
4520	16 Mo 5	1503-245-420	SBC 690	K11522	–	–	16 Mo 5	–	–	–	1.5423	–
5015	15 Cr 3	523 M15	SCr 415 H	G50150	15 Cr 2	12 C 3	–	–	–	–	1.7015	–
5046	44 Cr 2	–	–	H50460	46 Cr 1 KD	44 Cr 2	–	–	–	–	1.3561	–
5115	16 MnCr 5	527 M 17	SCR 415	G 51150	16 MnCr 5 KD	16 MC 5	16 MnCr 5	2173	–	–	1.7131	–
5117	17 Cr 3	17 Cr 3	–	G51170	(15 Cr 2 KD)	18 C 3	–	–	–	–	1.7016	–
5130	28 Cr 4	530 A 30	–	G51300	28 Cr 4	30 CD 4	–	–	–	–	1.7030	–
5140	41 Cr 4	530 M 40	SCr 440 H	G51400	41 Cr 4	42 C 4	41 Cr 4	–	–	–	1.7035	–
5140	42 Cr 4	530 A 40	SCr 440	–	40 NiCrMo 3	42 C 4 TS	40 NiCrMo 3	2245	–	–	1.7045	–
9255	51 Si 7	250 A 53	–	G92550	–	51 S 7	48 Si 7	2090	–	–	1.0903	–
9255	55 Si 7	250 A 53	SKH 1; SKT 4	G92550	55 NiCrMoV 7	55 S 7	55 Si 8	2085	–	–	1.0904	–
9260	60 Si 7	251 A 60	–	G92600	60 Si 7	60 S 7	60 Si 7	–	–	–	1.5027	–
9262	60 SiCr 7	250 A 61	SUP 7	G92620	60 SiCr 8	60 SC 7	60 SiCr 8	–	–	–	1.0961	–
9262	60 SC 7	–	–	G92620	60 SiCr 8	61 SC 7	60 SiCr 8	–	–	–	1.5092	–
9262	60 SiCr 7	–	–	–	60 SiCr 8	–	–	–	–	–	1.7108	–
15B21 H	19 MnB 4	170 H 20	SWRCHB 420	H15211	19 MnB 4	20 MB 5	–	–	–	–	1.5523	–
15B21 H	20 MnB 5	–	SWRCHB 620	–	20 MnB 5	20 MnB 5	20 MnB 5	–	–	–	1.5530	–
50B40	37 CrB 1	120 M 36	SMnC 3 H	H50401	38 Cr 2	–	35 CB 1	–	–	–	1.7007	–
5130 H	34 Cr 4	530 A 32	SCr 430 H	G51300	34 Cr 4 KD	32 C 4	34 Cr 4 KB	–	–	–	1.7033	–
5132 H	37 Cr 4	530 A 36	SCr 435 H	G51320	37 Cr 4	38 C 4	36 CrMn 4	–	–	–	1.7034	–
A 204 Gr. A	15 Mo 3	1501-240	STFA 12	K11820	16 Mo 3	15 D3	16 Mo 3 KW	2912	–	–	1.5415	–
A 350-LF 5	10 Ni 14	503	SL 3 N 26	K31718	12 Ni 14	12Ni14	18 Ni 14 KT	–	–	–	1.5637	–
A 387 Gr. 12 Cl. 2	16 CrMo 4 4	–	–	K11564	–	–	A 18 CrMo 4 5 KW	–	–	–	1.7337	–
A 570 Gr. 36	St 37-3	4360-40 C	–	K01501	S 235 J2 G3	Fe 360 D1(2); E 24-3	Fe 360 D1(2)	1312	–	–	1.0116	–
A 570 Gr. 40	St 44-2	4360-43 B	SM 41 B	K 02502	S 275 JR	E 28-2	Fe 430 BFN	1412	–	–	1.0044	–
A 570 Gr. 50	St 50-2	4360-50 B	SS 50	–	E 295	A 50-2	Fe 490	2172	–	–	1.0050	–
A 573 Gr. 70	St 44-3	4360-43 C	SM 41 B	–	Fe 430 D1(2); S 275 J2 G3 (4)	Fe 430 D1(2); E 28-4	Fe 430 D FF	1414	–	–	1.0144	–
A 633 Gr. C	St E 355	P 355 N	SM 50 YB	K12000	P 355 N	E 355 R/FP	Fe E 355 KG	2132	–	–	1.0562	–
A 633 Gr. E	St E 420	S 420 N	SM 50 C	K02002	FeE 420 KGN	E 420-I	Fe E 420 KG	2143	–	–	1.8902	–
A 633 Gr. E	St E 460	P 460 N	SM 53 B	K02900	P 460 N	E 460-I	Fe E 460 KG	2143	–	–	1.8905	–
A-6	C 67 W	–	–	T30106	–	Y1 70	–	–	–	–	1.1744	–
E 52100	100 Cr 6	535 A 99	SUJ 2	G52986	100 Cr 6	100 C 6	100 Cr 6	2258	–	–	1.3505	–
O 2	90 MnCrV 8	BO 2	–	T31502	90 Mn V 8	90 MV 8	90 MnVCr 8 KU	–	–	–	1.2842	–
P21	90 Cr 3	–	–	T51621	–	–	–	–	–	–	1.2056	–
P3	10 NC 6	–	–	T51603	15 NiCr 6	10 NC 6	–	–	–	–	1.5713	–
P6	15 NiCr 14	–	SNC 22	T51606	–	10 NC 12	–	–	–	–	1.2735	–
T 8	C 80 W2	BW 1B	SKC 3	T12008	–	Y1 80	C 80 KU	–	–	–	1.1625	–
W 108	C 80 W1	–	–	T72301	C 80 U	Y1 90	C 80 KU	1880	–	–	1.1525	–
W 110	C 105 W1	B W 1 A	–	T72301	C 105 U	Y 105	C 100 KU	1880	–	–	1.1545	–
W 112	C 125 W	–	–	–	C 125 U	–	–	–	–	–	1.1563	–
W 112	C 125 W	–	SK 2	T72301	C 120 U	Y2 120	C 120 KU	–	–	–	1.1663	–
W 210	100 V 1	BW 2	SKS 43	T72302	100 V 2	Y1 105 V	102 V 2 KU	–	–	–	1.2833	–
–	St 50-1	–	–	–	–	–	–	–	–	–	1.0052	–
–	S 235 JO/ Fe 360 C	En 40C	–	–	S 235 JO	E24-3	Fe 360 CFN	–	–	–	1.0114	–
–	QSt 37-3	–	SWRCH 12R	–	–	–	–	–	–	–	1.0123	–
–	S 275 JO	En43C;S275J0	–	–	S 275 JO/ Fe 430 C	S 275 JO; E 28-3	S275J0;Fe430CFN	–	–	–	1.0143	–
–	S 275 J2 G4/ Fe 430 D 2	S 275 J2 G4	–	–	S 275 J2 G4	E28-4; S 275 J2 G4	S 275 J2 G4	1414	–	–	1.0145	–
–	Ro St 44-2	43C	–	–	S 275 J0 H	–	S 275 J0 H	–	–	–	1.0149	–
–	St 37.0	–	STPG 38	–	P 235 T1	–	–	–	–	–	1.0254	–
–	C9D	–	SWRM 8	–	C 9 D	FM 9	C 9 D	–	–	–	1.0304	–
–	C7D	C 7 D	SWRM 8	G10060	C 7 D	FM 8	C 7 D	–	–	–	1.0313	–
–	P235 GH	P 235 GH	SPV 50	K02503	P 235 GH	A 37 CP	Fe E 235	1330	–	–	1.0345	–
–	C 25 Pb	–	–	–	C 25 GPb	–	–	–	–	–	1.0411	–
–	L 245 MB	430	–	K03006	L 245 MB	L 245 MB	–	–	–	–	1.0418	–
–	P310 NB	224-410	SG 325	K02100	P280GH	BS 2	P 275 N	2103	–	–	1.0426	–
–	L 290 MB	–	–	–	L290MB	L 290 MB	–	–	–	–	1.0429	–
–	H III/P285NH	–	Sm 38	–	P 285 NH	–	–	–	–	–	1.0435	–
–	P310 NB	224-430	SG 325	K02100	P305GH	P 275 N	P 275 N	2103	–	–	1.0436	–
–	A St 41	P 275 N	STK 400	K02100	S 275 N	BS 3	P 275 N	2103	–	–	1.0437	–
–	B 500 A	–	SD 490	–	B 500 A	–	B 500 A	–	–	–	1.0438	–
–	H IV/P295NH	–	SG 37	K03102	–	–	Fe 460-2 KW	–	–	–	1.0445	–
–	StE 240.7	–	–	–	L 245 NB	L 245 NB	–	–	–	–	1.0457	–
–	TStE 255	–	–	K11535	–	–	–	–	–	–	1.0463	–
–	15 Mn 3 Al	–	–	–	C 14 GAl	–	–	–	–	–	1.0468	–
–	19 Mn 6/P 355 GH	P 355 GH	SGV 46	K03300	P355GH	A 52 CP	Fe E355-2	2101	–	–	1.0473	–
–	17 Mn 4/P 295 GH	224-460B	SG 37	K03501	P 295 GH	A 48 CP	Fe E 295	2102	–	–	1.0481	–
–	19 Mn 5	224-460	SG 37	K 03102	–	A 52 CP; AP; FP	Fe 460- 2 KW	–	–	–	1.0482	–
–	L 290 AG	–	–	–	L290GA	TS E 290	–	–	–	–	1.0483	–
–	L 290 NB	–	–	–	L290NB	L 290 NB	–	–	–	–	1.0484	–
–	21 Mn 6	–	–	K12320	–	–	–	–	–	–	1.0485	–
–	St E 285	P 275 N	SM 41 A	K 01802	P 275 N	P 275 N	Fe E 285 KG	–	–	–	1.0486	–
–	W St E 285	P 275 N	–	K 01802	P 275 NH	P 275 N	Fe E 285 KW	–	–	–	1.0487	–
–	T St E 285	P 275 NL 1	SLA 235 A	K 01803	P 275 NL 1	P 275 NL 1	Fe E 285 KT	–	–	–	1.0488	–
–	H 300/ZSt E 300	H280LA	–	–	H 280 LA	E 280 C	–	–	–	–	1.0489	–
–	S 275 NH	S 275 NH	–	–	S 275 NH	–	S 275 NH	–	–	–	1.0493	–
–	S 275 NLH	S275NLH	–	–	S 275 NLH	–	S275NLH	–	–	–	1.0497	–
–	C 35 Pb/C 35 GPb	–	–	–	C 35 Pb	–	–	–	–	–	1.0502	–
–	St E 315/P 315N	–	SM 50 A	K11506	P 315 N	–	Fe E 315 KG	–	–	–	1.0505	–
–	W St E 315	–	SNC 1	K02404	P 315 NH	–	Fe E 315 KW	2107	–	–	1.0506	–
–	St 55	–	STKM 16A	–	–	–	Fe 540	–	–	–	1.0507	–
–	T St E315	–	SLA 325 A	K02404	P 315 NL	–	–	2106	–	–	1.0508	–
–	C 40 Pb	–	–	–	C 40 G Pb	–	–	–	–	–	1.0512	–
–	C38D	–	SWRH 37	–	C 38 D	FM 38	C 38 D	–	–	–	1.0516	–
–	C48D	–	SWRH 48	–	C 48 D	FM 48	C 48 D	–	–	–	1.0517	–
–	C56D	–	–	–	C 56 D	FM 56	C 56 D	–	–	–	1.0518	–
–	S 355 NH	S 355 NH	–	–	S 355 NH	–	S 355 NH	–	–	–	1.0539	–
–	C42D	–	SWRH 42 B	–	C 42 D	FM 42	C 42 D	–	–	–	1.0541	–
–	S 355 JO H	50 C	–	–	S 355 JO H	–	S 355 JO H	–	–	–	1.0547	–
–	ZStE 340/ H 340	H 320 L A	–	–	H 320 LA	E 315 C	–	–	–	–	1.0548	–
–	S 335 NLH	50 EE	–	–	S 355 N LH	–	S 355 N L H	–	–	–	1.0549	–
–	S 355 JO	En 50 C; S 355 JO	SM 520 M	–	S 355 JO	S 355 JO; E 36-3	S 355 JO; Fe 510 C FN	–	–	–	1.0553	–
–	GS-70	50 C	–	–	S 355 JO C	E 36-3	Fe 510 C	–	–	–	1.0554	–

(devamı)

P3 İş parçası malzeme listesi • Çelik • P3 *(devamı)*

P3 Alaşımlı çelikler ve Takım çelikleri *İçerik: C >%0,25* *Çekme mukavemeti RM (MPa)*: 600–850* *Sertlik (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	ZStE 420/H 420	46/40HR,HS,CS	–	–	H 400 LA	H 400 LA	–	–	–	–	1.0556	–
–	P355 NB	–	SG 365	–	P 355 NB	BS 4	–	–	–	–	1.0557	–
–	W St E 355	P 355 NH	–	K01600	P 355 NH	P 355 NH	Fe E 355 KW	–	–	–	1.0565	–
–	T St E355	P 355 NL1	SLA 37	–	P 355 NL1	P 355 NL1	Fe E 355 KT	–	–	–	1.0566	–
–	P355 QH1	P 355 QH	–	–	P 355 QH	P 355 QH	–	–	–	–	1.0571	–
–	S 355 J 2 G 4	S 355 J 2 G 4	–	–	S 355 J 2 G 4	S 355 J 2 G 4	S 355 J 2 G 4	–	–	–	1.0577	–
–	L 360 MB	–	–	–	L 360 MB	L 360 MB	–	–	–	–	1.0578	–
–	St 52,4	–	STS 49	–	–	–	–	–	–	–	1.0581	–
–	L 360 NB/StE 360.7	–	–	–	L360NB	L 360 NB	–	–	–	–	1.0582	–
–	S 355 J 2 G 3 Cu/St 52-3 Cu3	–	–	–	S 355 J2 G3 Cu + CR	–	–	–	–	–	1.0585	–
–	C50D	–	–	–	C 50 D	FM 50	C 50 D	–	–	–	1.0586	–
–	QSt 52-3 Cu 3	–	–	–	S 355 J2 G3 Cu C	–	–	–	–	–	1.0587	–
–	D 53-2	–	SWRH 52 B	–	C 52 D	FM 52	C 52 D	–	–	–	1.0588	–
–	S 355 J 2 G 4 Cu	–	–	–	S 355 J2 G4 Cu	–	–	–	–	–	1.0592	–
–	S355k2G3/Fe 510 DD1 (MULTIST	S 355 K 2 G 3	SM 520 C	K02505	S 355 K 2 G 3	E36-4	S 355 K 2 G 3	–	–	–	1.0595	–
–	S355K2G4/Fe 510 DD 2 (MULTIS	S 355 K 2 G 4	–	–	S 355 K 2 G 4	S 355 K 2 G 4	S 355 K 2 G 4	–	–	–	1.0596	–
–	C62D	–	SWRH 62 B	–	C 62 D	FM 62	C 62 D	–	–	–	1.0611	–
–	C66D	–	–	–	C 66 D	FM 66	C 66 D	–	–	–	1.0612	–
–	C68D	–	SWRH 67 B	–	C 68 D	FM 68	C 68 D	–	–	–	1.0613	–
–	C70D	–	–	–	C 70 D	FM 70	C 70 D	–	–	–	1.0615	–
–	C72D	–	SWRH 72 B	–	C 72 D	FM 72	C 72 D	–	–	–	1.0617	–
–	GS-C 25	–	SCPH 1	–	GP 240 GH	GP 240 GH	GP 240 Gh	–	–	–	1.0619	–
–	C80D	–	–	–	C 80 D	FM 80	C 80 D	–	–	–	1.0622	–
–	C82D	–	SWRH 82 B	–	C 82 D	FM 82	C 82 D	–	–	–	1.0626	–
–	35 SPb 20	35 SPb 20	–	–	35 SPb 20	35 SPb 20	–	–	–	–	1.0756	–
–	45 SPb 20	–	–	–	46 SPb 20	–	–	–	–	–	1.0757	–
–	38 SMnPb 28	38 SMnPb 28	–	–	38 SMnPb 28	38 SMnPb 28	–	–	–	–	1.0761	–
–	44 SMn 28	44 SMn 28	–	–	44 SMn 28	44 SMn 28	–	–	–	–	1.0762	–
–	44 SMnPb 28	44 SMnPb 28	–	–	44 SMnPb 28	44 SMnPb 28	–	–	–	–	1.0763	–
–	36 SMnPb 14	36 SMnPb 14	–	–	36 SMnPb 14	36 SMnPb 14	–	–	–	–	1.0765	–
–	QSt E 690 TM (S 700 MC)	–	–	–	S 700 MC	S 690 MC	S 700 MC	–	–	–	1.0966	–
–	QSt E 260 N 7 S 260 NC	–	AE 275 NC	–	S 260 NC	–	S 260 NCX	–	–	–	1.0971	–
–	QSt E 300 TM/S 315 MC	43 F35 HR,HS,CS	–	–	S 315 MC	E 315 D	S 315 MC	–	–	–	1.0972	–
–	QSt E 300 N 7/ S 315 NC	–	AE 340 NC	–	S 315 NC	–	S 315 NC	–	–	–	1.0973	–
–	QSt E340 TM	HR 40/30	–	–	S 340 MC	E 335 D	–	–	–	–	1.0974	–
–	QSt E340 N	–	–	–	S 340 NC	–	Fe E 355 TD	–	–	–	1.0975	–
–	QSt E 360TM	–	–	–	S 355 MC	E 355 D	Fe E 355 TM	–	–	–	1.0976	–
–	QSt E360 N	–	–	–	S 355 NC	–	Fe E 355 TD	–	–	–	1.0977	–
–	QSt E380 TM	–	–	–	S 380 MC	E 390 D	–	–	–	–	1.0978	–
–	QSt E380 N	–	–	–	S 380 NC	–	Fe E 380 TD	–	–	–	1.0979	–
–	QSt E420 TM	HR 50 F 45	–	–	S 420 MC	E 430 D	Fe E 420 TM	–	–	–	1.0980	–
–	QSt E 420 N	–	–	–	S 420 NC	–	Fe E 420 TD	–	–	–	1.0981	–
–	QSt E 460 TM	50/45 HR	–	–	S 460 MC	E 445 D	–	–	–	–	1.0982	–
–	QSt E 460 N	–	–	–	S 460 NC	–	Fe E 460 TD	–	–	–	1.0983	–
–	QSt E500 TM	–	–	–	S 500 MC	E 490 D	Fe E 490 TM	2662	–	–	1.0984	–
–	QSt E500 N	–	–	–	S 500 NC	–	–	–	–	–	1.0985	–
–	QSt E550 TM	60/55 HS	–	–	S 550 MC	E 560 D	Fe E 560 TM	–	–	–	1.0986	–
–	QSt E550 N	–	–	–	S 550 NC	–	–	–	–	–	1.0987	–
–	EStE 285	P 275 NL 2	STK 400	–	P 275 NL 2	P 275 NL 2	P 275 NL 2	–	–	–	1.1104	–
–	EStE 315	–	–	–	S 315 NL 1	–	–	–	–	–	1.1105	–
–	EStE 355	P 355 NL 2	STK 500	–	P 355 NL 2	P 355 NL 2	P 355 NL 2	–	–	–	1.1106	–
–	C5D2	–	–	–	C 5 D 2	FM 6	C 5 D 2	–	–	–	1.1111	–
–	C8D2	–	–	–	C 8 D 2	FM 8	C 8 D 2	–	–	–	1.1113	–
–	C 10 E W/RSD 11	–	–	–	C 10 EW	–	–	–	–	–	1.1115	–
–	C32D2	–	–	–	C 32 D 2	FM 32	C 32 D 2	–	–	–	1.1143	–
–	C36D2	–	–	–	C 36 D 2	FM 36	C 36 D 2	–	–	–	1.1145	–
–	C40D2	–	–	–	C 40 D 2	FM 40	C 40 D 2	–	–	–	1.1153	–
–	C42D2	–	–	–	C 42 D 2	FM 42	C 42 D 2	–	–	–	1.1154	–
–	C46D2	–	–	–	C 46 D 2	FM 46	C46D 2	–	–	–	1.1162	–
–	C 25 R	C 25 R	–	–	C 25 R	C 25 R	C 25 R	–	–	–	1.1163	–
–	C48D2	–	–	–	C 48 D 2	FM 48	C48 D 2	–	–	–	1.1164	–
–	20 Mn 6	150 M 19	–	–	–	20 M 5	20 Mn 6	–	–	–	1.1169	–
–	C50D2	–	–	–	C 50 D 2	FM 50	C50D 2	–	–	–	1.1171	–
–	C 30 R	C 30 R	C 30 R (3 C 30)	–	C 30 R	C 30 R	C 30 R	–	–	–	1.1179	–
–	C3D1	–	–	–	C 3 D 1	–	C 3 D 1	–	–	–	1.1187	–
–	C40R/Cm 40	C 40 R	–	–	C 40 R	C 40 R	C 40	–	–	–	1.1189	–
–	Ck 45	080 M 46	S 45 C	–	2 C 45	XC 42	C 40	1672	–	–	1.1191	–
–	Cq 45	–	SWRCH45K	–	C 45 KD	–	–	–	–	–	1.1192	–
–	C 45 R	080 M 46	S 50 C	–	C 45 R	XC 48 H1u	C 45 R	1672	–	–	1.1201	–
–	C52D2	–	–	–	C 52 D 2	FM 52	C 52 D 2	–	–	–	1.1202	–
–	C 53 R/Cm 53	–	–	–	C 53 R	–	–	–	–	–	1.1205	–
–	C 10 R	C 10 R	–	–	C 10 R	C 10 R	–	–	–	–	1.1207	–
–	C 16 R	C 16 R	–	–	C 16 R	C 16 R	–	–	–	–	1.1208	–
–	C58D2	–	–	–	C 58 D 2	FM 58	C 58 D 2	–	–	–	1.1212	–
–	C62D2	–	–	–	C 62 D 2	FM 62	C 62 D 2	–	–	–	1.1222	–
–	Cm 60	C 60 R	–	–	3 C 60	C 60 R	C 60 R	–	–	–	1.1223	–
–	C60D2	–	–	–	C 60 D 2	FM 60	C 60 D 2	–	–	–	1.1228	–
–	C68D2	–	–	–	C 68 D 2	FM 68	C 68 D 2	–	–	–	1.1232	–
–	C66D2	–	–	–	C 66 D 2	FM 66	C 66 D 2	–	–	–	1.1236	–
–	C50R	C 50 R	–	–	C 50 R	FM 50	C 50 R	–	–	–	1.1241	–
–	C72D2	–	–	–	C 72 D 2	FM 72	C 72 D 2	–	–	–	1.1242	–
–	C70D2	–	–	–	C 70 D 2	FM 70	C 70 D 2	–	–	–	1.1251	–
–	C78D2	–	–	–	C 78 D 2	FM 78	C 78 D 2	–	–	–	1.1252	–
–	C76D2	–	–	–	C 76 D 2	FM 76	C 76 D 2	–	–	–	1.1253	–
–	C80D2	–	–	–	C 80 D 2	FM 80	C 80 D 2	–	–	–	1.1255	–

NOT: Etiket için, bkz. sayfa Y217.

(devamı)

P3 İş parçası malzeme listesi • Çelik • P3 *(devamı)*

P3 Alaşımlı çelikler ve Takım çelikleri *İçerik: C >%0,25* *Çekme mukavemeti RM (MPa)*: 600–850* *Sertlik (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	C82D2	–	–	–	C 82 D 2	FM 82	C 82 D 2	–	–	–	1.1262	–
–	C86D2	–	–	–	C 86 D 2	FM 86	C 86 D 2	–	–	–	1.1265	–
–	C88D2	–	–	–	C 88 D 2	–	C 88 D 2	–	–	–	1.1272	–
–	C92D2	–	–	–	C 92 D 2	–	C 92 D 2	–	–	–	1.1282	–
–	C98D2	–	–	–	C 98 D 2	–	C 98 D 2	–	–	–	1.1283	–
–	46 MnVS 6	–	–	–	46 MnVS 6	–	–	–	–	–	1.1304	–
–	C 90 U	–	–	–	C90U	–	–	–	–	–	1.1535	–
–	85 Cr 1	–	–	–	–	Y1 100 C 2	–	–	–	–	1.2004	–
–	140 Cr 3	–	SKS 8	–	140 Cr 2	Y2 140 C	–	–	–	–	1.2008	–
–	21 MnCr 5	–	SCR 420 H	–	21 MnCr 5	20 NC 5	–	–	–	–	1.2162	–
–	40 CrMnNiMo 8 6 4	–	–	–	40 CrMnNiMo 8-6-4	–	–	–	–	–	1.2738	–
–	16 CrNiMo 6	820A16	–	–	–	16 NCD 6	16NiCrMo6	–	–	–	1.3531	–
–	100 CrMn 7 3	–	–	–	100 CrMnMo 7	100 CD 7	–	–	–	–	1.3536	–
–	100 CrMo 7	–	SUS 4	K19965	100 CrMo 7	100 CD 7	100CrMo7	–	–	–	1.3537	–
–	100 CrMnMo 8	–	–	–	–	100 CrMnMo 8	–	–	–	–	1.3539	–
–	46 Si 7	–	–	–	45 Si	46 S 7	–	–	–	–	1.5024	–
–	55 Si 7	250 A 53	–	G92550	56 Si 7	55 S 7	55 Si 8	2085	–	–	1.5026	–
–	37 MnSi 5	–	–	–	–	38 MS 5	–	F.130.A	–	–	1.5122	–
–	15 MnMoV 4 5	–	–	–	15 MnMoV 4-5	15 MDV 4.05	–	–	–	–	1.5402	–
–	11 MnMo 4 5	–	–	K11123	11 MnMo 45 KE	–	–	–	–	–	1.5425	–
–	13 MnMo 6 5	–	–	K11424	11 MnMo 65 KE	–	–	–	–	–	1.5426	–
–	35 B 2	–	SWRCHB 237	–	C 35 B	35 B 3	–	–	–	–	1.5511	–
–	24 Ni 8	–	SCPL 21	J22501	G 9 Ni 10	22 N 8	G9Ni10	–	–	–	1.5633	–
–	10 NiCr 5 4	10NiCr5-4	–	–	10 NiCr 5-4	10 NiCr 5-4	–	–	–	–	1.5805	–
–	18 MnMoNi 5 5	–	–	–	18 MnMoNi 5-5	–	–	–	–	–	1.6308	–
–	20 MnMoNi 4 5	–	SQV 2 B	K12539	20 MnMoNi 4-5	–	–	–	–	–	1.6311	–
–	15 MnCrMoNiV 5 3	–	–	–	15 MnCrMoNiV 5-3	–	–	–	–	–	1.6920	–
–	17 CrS 3	17 CrS3	–	–	17 CrS 3	17 CrS 3	–	–	–	–	1.7014	–
–	28 CrS 4	–	–	–	28CrS4	28CrS4	–	–	–	–	1.7036	–
–	34 CrS 4	34 CrS 4	–	–	34 CrS 4	34 CrS 4	34 CrS 4	–	–	–	1.7037	–
–	41 CrS 4	41 CrS 4	–	–	41 CrS 4	41 CrS 4	41 CrS 4	2245	–	–	1.7039	–
–	38 Cr 4	–	–	–	38 Cr 4	–	38 Cr 4	–	–	–	1.7043	–
–	16 CrMo 4	18 CrMo4	SCM 418 H	–	18 CrMo 4	15 CD 3,5	18 CrMo 4	–	–	–	1.7242	–
–	12 CrMo 11 10	–	–	–	–	–	–	–	–	–	1.7305	–
–	22 CrMoS 3 5	–	–	–	22 CrMoS 3-5	22 CrMoS 3-5	–	–	–	–	1.7333	–
–	12 CrMo 19 5	3606-625	SCMV 6	K41545	X 12 CrMo 5	Z 10 CD 5.05	16 CrMo 20 5	–	–	–	1.7362	–
–	X 7 CrMo 6 1	B 5	–	S50281	CM 5-IG	–	–	–	–	–	1.7373	–
–	51 CrMoV 4	–	–	–	51 CrMoV 4	51 CDV 4	51 CrMoV 4	–	–	–	1.7701	–
–	21 CrMoV 5 7	–	–	K14073	21 CrmoV 5-7	20 CDV 5,07	–	–	–	–	1.7709	–
–	20 CrMoVTiB 4 10	–	–	–	20 CrMoVTiB 4-10	20 CrMoVTiB 4-10	–	–	–	–	1.7729	–
–	PS 275 TMK	S 275 ML	–	–	S 275 ML	S 275 ML	S 275 ML	–	–	–	1.8819	–
–	S 500 M	–	–	–	S 500 m	–	–	–	–	–	1.8829	–
–	BTStE 460 TM	S 460 ML	–	–	S 460 ML	E 460	S 460 ML	–	–	–	1.8838	–
–	S 500 ML	–	–	–	S 500 ML	–	–	–	–	–	1.8839	–
–	S 275 MH	–	–	–	S 275 MH	–	S 275 MH	–	–	–	1.8843	–
–	S 275 MLH	–	–	–	S 275 MLH	–	S 275 MLH	–	–	–	1.8844	–
–	S 355 MH	–	–	–	S 355 MH	–	S 355 MH	–	–	–	1.8845	–
–	S 355 MLH	–	–	–	S 355 MLH	–	S 355 MLH	–	–	–	1.8846	–
–	S 420 MH	–	–	–	S 420 MH	–	S 420 MH	–	–	–	1.8847	–
–	S 420 MLH	–	–	–	S 420 MLH	–	S 420 MLH	–	–	–	1.8848	–
–	S 460 MH	–	–	–	S 460 MH	–	S 460 MH	–	–	–	1.8849	–
–	StE 460	S 460 N	–	–	S 460 N	E 460	S 460N	–	–	–	1.8901	–
–	TStE 460	S 460 L	–	–	S 460 NL	E460	S 460 NL	–	–	–	1.8903	–
–	S 550 Q	–	–	–	S 550 Q	E 550	S 550 Q	–	–	–	1.8904	–
–	S 460 Q	55 F	–	–	S 460 Q	E 460	S 460 Q	–	–	–	1.8908	–
–	S 420 NL/TStE 420	S 420 NL	STK 540	K02002	S 420 NL	E 420 T-I	Fe E 420 KT	–	–	–	1.8912	–
–	S 620 Q	–	–	–	S 620 Q	E 620	S 620 Q	–	–	–	1.8914	–
–	T St E 460/P460NL1	P 460 NL 1	–	K02900	P 460 NL1	E 460 T-I	Fe E 460 KT	–	–	–	1.8915	–
–	S 460 QL1	55 F	–	–	S 460 QL 1	–	–	–	–	–	1.8916	–
–	T St E 500	–	–	K02001	–	E 500 T-I	–	–	–	–	1.8917	–
–	EStE 460/P460NI2	P 460 NL 2	–	–	P 460 NL 2	P 460 NL 2	P 460 NL 2	–	–	–	1.8918	–
–	EStE 500/S500NL1	–	–	–	S 500 NL 1	–	–	–	–	–	1.8919	–
–	TStE 690 VA/S690G1QL	–	–	–	S 690 G 1 QL	–	–	–	–	–	1.8920	–
–	TStE 690 VB/S690G2QL	–	–	K11646	S 690 G 2 QL	–	–	–	–	–	1.8921	–
–	S 690 G 4 QL/TStE 690 VC	–	–	–	S 690 G 4 QL	–	–	–	–	–	1.8922	–
–	S 590 QL/TStE 590 V	–	–	–	S 590 QL	–	–	–	–	–	1.8923	–
–	S 500 Q (StE 500 V)	–	–	–	S 500 Q	E 500	S 500 Q	2614	–	–	1.8924	–
–	S 890 QL 1 (EStE 90 V)	–	–	–	S 890 QL 1	–	–	–	–	–	1.8925	–
–	S 690 QL (TStE 690 V)	–	SHY 685 NS	–	S 690 QL	–	–	–	–	–	1.8928	–
–	S 690 Q/StE 690 V	–	SHY 685 N	–	S 690 Q	E 690	S 690 Q	–	–	–	1.8931	–
–	WSt E 420/P420NH	S 420 NL	STK 540	K02002	S 420 NL	S 420 NL	Fe E 420 KW	–	–	–	1.8932	–
–	S 960 QL/TStE 960 V	–	–	–	S 960 QL	–	–	–	–	–	1.8933	–
–	WSt E 460/P460NH	P 460 NH	–	K02900	P 460 NH	P 460 NH	Fe E 460 KW	–	–	–	1.8935	–
–	S 960 Q	–	–	–	S 960 Q	E 960 T-II	S 960 Q	–	–	–	1.8941	–
–	S 355 J 0 WP	WR 50 A	–	–	S 355 J0 WP	E 36 W-A3	S 355 J0 WP	–	–	–	1.8945	–
–	S 355 J 2 WP	S 355 J 2 WP	–	–	S 355 J2 WP	E36W-A4	S 355 J2 WP	–	–	–	1.8946	–
–	L 415 QB	–	–	–	L 415 QB	L 415 QB	–	–	–	–	1.8947	–
–	L 360 QB	–	–	–	L 360 QB	L 360 QB	–	–	–	–	1.8948	–
–	L 450 QB	–	–	–	L 450 QB	L 450 QB	–	–	–	–	1.8952	–
–	S 460 NH (FGS 47)	–	–	–	S 460 NH	–	S 460 NH	–	–	–	1.8953	–
–	L 485 QB	–	–	–	L 485 QB	L 485 QB	–	–	–	–	1.8955	–
–	S 460 NLH/FG S 47	–	–	–	S 460 NLH	–	S460NLH	–	–	–	1.8956	–
–	L 555 QB	–	–	–	L 555 QB	L 555 QB	–	–	–	–	1.8957	–
–	9 CrNiCuP 3 2 4	WR 50 A	SPA-H	K11430	–	–	–	–	–	–	1.8962	–
–	WTSt 52-3	WR 50 C	SMA 58 W	K11430	S 355 J 2 G 1 W	E 36 W-A2	–	–	–	–	1.8963	–
–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	–	1.8965	–

(devamı)

P3 İş parçası malzeme listesi • Çelik • P3 *(devamı)*

P3 Alaşımlı çelikler ve Takım çelikleri *İçerik: C >%0,25* *Çekme mukavemeti RM (MPa)*: 600–850* *Sertlik (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	S 355 K 2 G 1 W	S 355 K 2 G 1 W	SMA 490 CW	–	S 355 K2 G1 W	S 355 K2 G1 W	S 355 K 2 G 1 W	–	–	–	1.8966	–
–	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	S 355 K2G2W	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	–	1.8967	–
–	QStE 600 TM/S 600 MC	–	–	–	S 600 MC	E 620 D	S 600 MC	–	–	–	1.8969	–
–	StE 415..7/L 415 NB	–	–	–	L 415 NB	L 415 NB	–	–	–	–	1.8972	–
–	StE 415.7 TM/L 415 MB	–	–	–	L 415 MB	L 415 MB	–	–	–	–	1.8973	–
–	S 700 MC (QStE 690 TM)	–	–	–	S 700 MC	E 690 D	S 700 MC	–	–	–	1.8974	–
–	L 450 MB/StE 445.7 TM	–	–	–	L 450 MB	L 450 MB	–	–	–	–	1.8975	–
–	S 650 MC (QStE 650 TM)	–	–	–	S 650 MC	E 620 D	S 650 MC	–	–	–	1.8976	–
–	L 485 MB/StE 480.7 TM	–	–	–	L 485 MB	L 485 MB	–	–	–	–	1.8977	–
–	StE 550.7 TM/L 555 MB	–	–	–	L 555 MB	L 555 MB	–	–	–	–	1.8978	–
–	St 60-2	4360-55 E	SM 58	–	E 335	A 60-2	Fe 60-2	1650	–	–	1.0060	–
–	St 70-2	E 360	–	–	E 360	A 70-2	Fe 70-2	1655	–	–	1.0070	–
–	C4D	–	–	–	C 4 D	FM 5	C 4 D	–	–	–	1.0300	–
–	C 22 8	–	–	–	P 250 GH	–	–	–	–	–	1.0460	–
–	H 260/ZSt E 260	H 240 LA	–	–	H 240 LA	E 240 C	–	–	–	–	1.0480	–
–	C32D	–	SWRH 32	K02701	C 32 D	FM 32	C 32 D	–	–	–	1.0530	–
–	ZStE 380/H 380	H 360 L A	–	–	H 360 LA	E 355 C	–	–	–	–	1.0550	–
–	C60D	–	–	–	C 60 D	FM 60	C 60 D	–	–	–	1.0610	–
–	38 SMn 28	38 SMn 28	–	–	38 SMn 28	38 SMn 28	–	–	–	–	1.0760	–
–	QSt E 260 TM/5260 MC	–	–	–	S 260 MC	41 S 7	Fe E 275 TM	–	–	–	1.0970	–
–	C3D2	–	–	–	C 3 D 2	FM 5	C 3 D 2	–	–	–	1.1110	–
–	C38D2	–	–	–	C 38 D 2	FM 38	C 38 D 2	–	–	–	1.1150	–
–	C 42 E Al/Ck 42 Al	–	–	–	S 355 G15	–	–	–	–	–	1.1190	–
–	C56D2/D 55-2	–	–	–	C 56 D 2	FM 56	C 56 D 2	–	–	–	1.1220	–
–	C 70 W1	–	–	–	CT 70	C 70 E 2 U	C 70 K U	–	–	–	1.1520	–
–	C 45 W	–	–	–	C 45 U	Y3 42	–	–	–	–	1.1730	–
–	C 60 W	–	SK 7	–	–	Y3 55	–	–	–	–	1.1740	–
–	100 CrMn 6	–	–	K19195	100 CrMn 6	100 CM 6	–	–	–	–	1.3520	–
–	28 B 2	–	SWRCHB 26	–	C 30 B	20 B 3	–	–	–	–	1.5510	–
–	St E 380	–	SM 50 B	–	S 380 N	–	Fe E 390 KG	–	–	–	1.8900	–
–	TStE 380/S380NL	–	–	–	S 380 NL	–	Fe E 390 KT	2117	–	–	1.8910	–
–	S 890 Q	–	–	–	S 890 Q	S 890 Q	S 890 Q	–	–	–	1.8940	–
–	46 Si 7	–	–	–	45 Si	46 S 7	–	–	–	–	1.5024	–
–	55 Si 7	250 A 53	–	G92550	56 Si 7	55 S 7	55 Si 8	2085	–	–	1.5026	–
–	37 MnSi 5	–	–	–	–	38 MS 5	–	F.130.A	–	–	1.5122	–
–	15 MnMoV 4 5	–	–	–	15 MnMoV 4-5	15 MDV 4.05	–	–	–	–	1.5402	–
–	11 MnMo 4 5	–	–	K11123	11 MnMo 45 KE	–	–	–	–	–	1.5425	–
–	13 MnMo 6 5	–	–	K11424	11 MnMo 65 KE	–	–	–	–	–	1.5426	–
–	35 B 2	–	SWRCHB 237	–	C 35 B	35 B 3	–	–	–	–	1.5511	–
–	24 Ni 8	–	SCPL 21	J22501	G 9 Ni 10	22 N 8	G9Ni10	–	–	–	1.5633	–
–	10 NiCr 5 4	10NiCr5-4	–	–	10 NiCr 5-4	10 NiCr 5-4	–	–	–	–	1.5805	–
–	18 MnMoNi 5 5	–	–	–	18 MnMoNi 5-5	–	–	–	–	–	1.6308	–
–	20 MnMoNi 4 5	–	SQV 2 B	K12539	20 MnMoNi 4-5	–	–	–	–	–	1.6311	–
–	15 MnCrMoNiV 5 3	–	–	–	15 MnCrMoNiV 5-3	–	–	–	–	–	1.6920	–
–	17 CrS 3	17 CrS3	–	–	17 CrS 3	17 CrS 3	–	–	–	–	1.7014	–
–	28 CrS 4	–	–	–	28CrS4	28CrS4	–	–	–	–	1.7036	–
–	34 CrS 4	34 CrS 4	–	–	34 CrS 4	34 CrS 4	34 CrS 4	–	–	–	1.7037	–
–	41 CrS 4	41 CrS 4	–	–	41 CrS 4	41 CrS 4	41 CrS 4	2245	–	–	1.7039	–
–	38 Cr 4	–	–	–	38 Cr 4	–	38 Cr 4	–	–	–	1.7043	–
–	16 CrMo 4	18 CrMo4	SCM 418 H	–	18 CrMo 4	15 CD 3,5	18 CrMo 4	–	–	–	1.7242	–
–	12 CrMo 11 10	–	–	–	–	–	–	–	–	–	1.7305	–
–	22 CrMoS 3 5	–	–	–	22 CrMoS 3-5	22 CrMoS 3-5	–	–	–	–	1.7333	–
–	12 CrMo 19 5	3606-625	SCMV 6	K41545	X 12 CrMo 5	Z 10 CD 5.05	16 CrMo 20 5	–	–	–	1.7362	–
–	X 7 CrMo 6 1	B 5	–	S50281	CM 5-IG	–	–	–	–	–	1.7373	–
–	51 CrMoV 4	–	–	–	51 CrMoV 4	51 CDV 4	51 CrMoV 4	–	–	–	1.7701	–
–	21 CrMoV 5 7	–	–	K14073	21 CrmoV 5-7	20 CDV 5,07	–	–	–	–	1.7709	–
–	20 CrMoVTiB 4 10	–	–	–	20 CrMoVTiB 4-10	20 CrMoVTiB 4-10	–	–	–	–	1.7729	–
–	PS 275 TMK	S 275 ML	–	–	S 275 ML	S 275 ML	S 275 ML	–	–	–	1.8819	–
–	S 500 M	–	–	–	S 500 m	–	–	–	–	–	1.8829	–
–	BTStE 460 TM	S 460 ML	–	–	S 460 ML	E 460	S 460 ML	–	–	–	1.8838	–
–	S 500 ML	–	–	–	S 500 ML	–	–	–	–	–	1.8839	–
–	S 275 MH	–	–	–	S 275 MH	–	S 275 MH	–	–	–	1.8843	–
–	S 275 MLH	–	–	–	S 275 MLH	–	S 275 MLH	–	–	–	1.8844	–
–	S 355 MH	–	–	–	S 355 MH	–	S 355 MH	–	–	–	1.8845	–
–	S 355 MLH	–	–	–	S 355 MLH	–	S 355 MLH	–	–	–	1.8846	–
–	S 420 MH	–	–	–	S 420 MH	–	S 420 MH	–	–	–	1.8847	–
–	S 420 MLH	–	–	–	S 420 MLH	–	S 420 MLH	–	–	–	1.8848	–
–	S 460 MH	–	–	–	S 460 MH	–	S 460 MH	–	–	–	1.8849	–
–	StE 460	S 460 N	–	–	S 460 NL	E 460	S 460N	–	–	–	1.8901	–
–	TStE 460	S 460 L	–	–	S 460 NL	E460	S 460 NL	–	–	–	1.8903	–
–	S 550 Q	–	–	–	S 550 Q	E 550	S 550 Q	–	–	–	1.8904	–
–	S 460 Q	55 F	–	–	S 460 Q	E 460	S 460 Q	–	–	–	1.8908	–
–	S 420 NL/TStE 420	S 420 NL	STK 540	K02002	S 420 NL	E 420 T-I	Fe E 420 KT	–	–	–	1.8912	–
–	S 620 Q	–	–	–	S 620 Q	E 620	S 620 Q	–	–	–	1.8914	–
–	T St E 460/P460NL1	P 460 NL 1	–	K02900	P 460 NL1	E 460 T-I	Fe E 460 KT	–	–	–	1.8915	–
–	S 460 QL1	55 F	–	–	S 460 QL 1	–	–	–	–	–	1.8916	–
–	T St E 500	–	–	K02001	–	E 500 T-I	–	–	–	–	1.8917	–
–	EStE 460/P460NI2	P 460 NL 2	–	–	P 460 NL 2	P 460 NL 2	P 460 NL 2	–	–	–	1.8918	–
–	EStE 500/S500NL1	–	–	–	S 500 NL 1	–	–	–	–	–	1.8919	–
–	TStE 690 VA/S690G1QL	–	–	–	S 690 G 1 QL	–	–	–	–	–	1.8920	–
–	TStE 690 VB/S690G2QL	–	–	K11646	S 690 G 2 QL	–	–	–	–	–	1.8921	–
–	S 690 G 4 QL/TStE 690 VC	–	–	–	S 690 G 4 QL	–	–	–	–	–	1.8922	–
–	S 590 QL/TStE 590 V	–	–	–	S 590 QL	–	–	–	–	–	1.8923	–
–	S 500 Q (StE 500 V)	–	–	–	S 500 Q	E 500	S 500 Q	2614	–	–	1.8924	–
–	S 890 QL 1 (EStE 90 V)	–	–	–	S 890 QL 1	–	–	–	–	–	1.8925	–
–	S 690 QL (TStE 690 V)	–	SHY 685 NS	–	S 690 QL	–	–	–	–	–	1.8928	–
–	S 690 Q/StE 690 V	–	SHY 685 N	–	S 690 Q	E 690	S 690 Q	–	–	–	1.8931	–

(devamı)

P3 İş parçası malzeme listesi • Çelik • P3 *(devamı)*

P3 Alaşımlı çelikler ve Takım çelikleri *İçerik: C >%0,25* *Çekme mukavemeti RM (MPa)*: 600–850* *Sertlik (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	WSt E 420/P420NH	S 420 NL	STK 540	K02002	S 420 NL	S 420 NL	Fe E 420 KW	–	–	–	1.8932	–
–	S 960 QL/TStE 960 V	–	–	–	S 960 QL	–	–	–	–	–	1.8933	–
–	WSt E 460/P460NH	P 460 NH	–	K02900	P 460 NH	P 460 NH	Fe E 460 KW	–	–	–	1.8935	–
–	S 960 Q	–	–	–	S 960 Q	E 960 T-II	S 960 Q	–	–	–	1.8941	–
–	S 355 J 0 WP	WR 50 A	–	–	S 355 J0 WP	E 36 W-A3	S 355 J0 WP	–	–	–	1.8945	–
–	S 355 J 2 WP	S 355 J 2 WP	–	–	S 355 J2 WP	E36W-A4	S 355 J2 WP	–	–	–	1.8946	–
–	L 415 QB	–	–	–	L 415 QB	L 415 QB	–	–	–	–	1.8947	–
–	L 360 QB	–	–	–	L 360 QB	L 360 QB	–	–	–	–	1.8948	–
–	L 450 QB	–	–	–	L 450 QB	L 450 QB	–	–	–	–	1.8952	–
–	S 460 NH (FGS 47)	–	–	–	S 460 NH	–	S 460 NH	–	–	–	1.8953	–
–	L 485 QB	–	–	–	L 485 QB	L 485 QB	–	–	–	–	1.8955	–
–	S 460 NLH/FG S 47	–	–	–	S 460 NLH	–	S460NLH	–	–	–	1.8956	–
–	L 555 QB	–	–	–	L 555 QB	L 555 QB	–	–	–	–	1.8957	–
–	9 CrNiCuP 3 2 4	WR 50 A	SPA-H	K11430	–	–	–	–	–	–	1.8962	–
–	WTSt 52-3	WR 50 C	SMA 58 W	K11430	S 355 J 2 G 1 W	E 36 W-A2	–	–	–	–	1.8963	–
–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	–	1.8965	–
–	S 355 K 2 G 1 W	S 355 K 2 G 1 W	SMA 490 CW	–	S 355 K2 G1 W	S 355 K2 G1 W	S 355 K 2 G 1 W	–	–	–	1.8966	–
–	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	S 355 K2G2W	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	–	1.8967	–
–	QStE 600 TM/S 600 MC	–	–	–	S 600 MC	E 620 D	S 600 MC	–	–	–	1.8969	–
–	StE 415..7/L 415 NB	–	–	–	L 415 NB	L 415 NB	–	–	–	–	1.8972	–
–	StE 415.7 TM/L 415 MB	–	–	–	L 415 MB	L 415 MB	–	–	–	–	1.8973	–
–	S 700 MC (QStE 690 TM)	–	–	–	S 700 MC	E 690 D	S 700 MC	–	–	–	1.8974	–
–	L 450 MB/StE 445.7 TM	–	–	–	L 450 MB	L 450 MB	–	–	–	–	1.8975	–
–	S 650 MC (QStE 650 TM)	–	–	–	S 650 MC	E 620 D	S 650 MC	–	–	–	1.8976	–
–	L 485 MB/StE 480.7 TM	–	–	–	L 485 MB	L 485 MB	–	–	–	–	1.8977	–
–	StE 550.7 TM/L 555 MB	–	–	–	L 555 MB	L 555 MB	–	–	–	–	1.8978	–
–	St 60-2	4360-55 E	SM 58	–	E 335	A 60-2	Fe 60-2	1650	–	–	1.0060	–
–	St 70-2	E 360	–	–	E 360	A 70-2	Fe 70-2	1655	–	–	1.0070	–
–	C4D	–	–	–	C 4 D	FM 5	C 4 D	–	–	–	1.0300	–
–	C 22 8	–	–	–	P 250 GH	–	–	–	–	–	1.0460	–
–	H 260/ZSt E 260	H 240 LA	–	–	H 240 LA	E 240 C	–	–	–	–	1.0480	–
–	C32D	–	SWRH 32	K02701	C 32 D	FM 32	C 32 D	–	–	–	1.0530	–
–	ZStE 380/H 380	H 360 L A	–	–	H 360 LA	E 355 C	–	–	–	–	1.0550	–
–	C60D	–	–	–	C 60 D	FM 60	C 60 D	–	–	–	1.0610	–
–	38 SMn 28	38 SMn 28	–	–	38 SMn 28	38 SMn 28	–	–	–	–	1.0760	–
–	QSt E 260 TM/5260 MC	–	–	–	S 260 MC	41 S 7	Fe E 275 TM	–	–	–	1.0970	–
–	C3D2	–	–	–	C 3 D 2	FM 5	C 3 D 2	–	–	–	1.1110	–
–	C38D2	–	–	–	C 38 D 2	FM 38	C 38 D 2	–	–	–	1.1150	–
–	C 42 E Al/Ck 42 Al	–	–	–	S 355 G15	–	–	–	–	–	1.1190	–
–	C56D2/D 55-2	–	–	–	C 56 D 2	FM 56	C 56 D 2	–	–	–	1.1220	–
–	C 70 W1	–	–	–	CT 70	C 70 E 2 U	C 70 K U	–	–	–	1.1520	–
–	C 45 W	–	–	–	C 45 U	Y3 42	–	–	–	–	1.1730	–
–	C 60 W	–	SK 7	–	–	Y3 55	–	–	–	–	1.1740	–
–	100 CrMn 6	–	–	K19195	100 CrMn 6	100 CM 6	–	–	–	–	1.3520	–
–	28 B 2	–	SWRCHB 26	–	C 30 B	20 B 3	–	–	–	–	1.5510	–
–	St E 380	–	SM 50 B	–	S 380 N	–	Fe E 390 KG	–	–	–	1.8900	–
–	TStE 380/S380NL	–	–	–	S 380 NL	–	Fe E 390 KT	2117	–	–	1.8910	–
–	S 890 Q	–	–	–	S 890 Q	S 890 Q	S 890 Q	–	–	–	1.8940	–

P4 İş parçası malzeme listesi • Çelik • P4

P4 Alaşım çelikler ve Takım çelikleri *İçerik: C >%0,25* *Çekme mukavemeti RM (MPa)*: 850–1400* *Sertlik (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
A 570 Gr. 40	St 44-2	4360-43 B	SM 41 B	K 02502	S 275 JR	E 28-2	Fe 430 BFN	1412	–	–	1.0044	–
–	S 235 J0/Fe 360 C	En 40C	–	–	S 235 J0	E24-3	Fe 360 CFN	–	–	–	1.0114	–
A 570 Gr. 36	St 37-3	4360-40 C	–	K01501	S 235 J2 G3	Fe 360 D1(2); E 24-3	Fe 360 D1(2)	1312	–	–	1.0116	–
–	QSt 37-3	–	SWRCH 12R	–	–	–	–	–	–	–	1.0123	–
–	S 275 J0	En43C;S275J0	–	–	S 275 J0/Fe 430 C	S 275 J0; E 28-3	S275J0;Fe430CFN	–	–	–	1.0143	–
A 573 Gr. 70	St 44-3	4360-43 C	SM 41 B	–	Fe 430 D1(2); S 275 J2 G3 (4)	Fe 430 D1(2); E 28-4	Fe 430 D FF	1414	–	–	1.0144	–
–	S 275 J2 G4/Fe 430 D 2	S 275 J2 G4	–	–	S 275 J2 G4	E28-4;S 275 J2 G4	S 275 J2 G4	1414	–	–	1.0145	–
–	Ro St 44-2	43C	–	–	S 275 J0 H	–	S 275 J0 H	–	–	–	1.0149	–
–	St 37,0	–	STPG 38	–	P 235 T1	–	–	–	–	–	1.0254	–
–	C9D	–	SWRM 8	–	C 9 D	FM 9	C 9 D	–	–	–	1.0304	–
–	C7D	C 7 D	SWRM 8	G10060	C 7 D	FM 8	C 7 D	–	–	–	1.0313	–
–	L 210 GA	–	–	–	L 210 GA	TS E 220 sınıf 2	–	–	–	–	1.0319	–
–	USD 7/C 8 G1 W	–	–	–	C 8 G 1 W	–	–	–	–	–	1.0323	–
–	RSD 7/C8G2W	–	–	–	C 8 G 2 W	–	–	–	–	–	1.0324	–
–	RSD 10 Si/C10WSi	–	–	–	C 10 W Si	–	–	–	–	–	1.0339	–
–	P235 GH	P 235 GH	SPV 50	K02503	P 235 GH	A 37 CP	Fe E 235	1330	–	–	1.0345	–
–	RRSD 10/C10 W	–	–	–	C 10 W	–	–	–	–	–	1.0351	–
–	St 45,8	–	STB 410	K02727	–	–	–	–	–	–	1.0405	–
–	C 25 Pb	–	–	–	C 25 GPb	–	–	–	–	–	1.0411	–
–	L 245 MB	430	–	K03006	L 245 MB	L 245 MB	–	–	–	–	1.0418	–
1513	P265	HR 40/30	–	G15130	–	12 M 5	–	–	–	–	1.0424	–
–	P310 NB	224-410	SG 325	K02100	P280GH	BS 2	P 275 N	2103	–	–	1.0426	–
–	L 290 MB	–	–	–	L290MB	L 290 MB	–	–	–	–	1.0429	–
–	H III/P285NH	–	Sm 38	–	P 285 NH	–	–	–	–	–	1.0435	–
–	P310 NB	224-430	SG 325	K02100	P305GH	P 275 N	P 275 N	2103	–	–	1.0436	–
–	A St 41	P 275 N	STK 400	K02100	S 275 N	BS 3	P 275 N	2103	–	–	1.0437	–
–	B 500 A	–	SD 490	–	B 500 A	–	B 500 A	–	–	–	1.0438	–
–	GS-45	–	SC 450	–	–	–	–	–	–	–	1.0443	–
–	H IV/P295NH	–	SG 37	K03102	–	–	Fe 460-2 KW	–	–	–	1.0445	–

(devamı)

P4 İş parçası malzeme listesi • Çelik • P4 *(devamı)*

P4 Alaşım çelikler ve Takım çelikleri *İçerik: C >%0,25* *Çekme mukavemeti RM (MPa)*: 850–1400* *Sertlik (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	StE 240.7	–	–	–	L 245 NB	L 245 NB	–	–	–	–	1.0457	–
–	HIII/L 235 GA	–	–	–	L 235 GA	–	–	–	–	–	1.0458	–
–	L 245 GA/RRStE 240.7	–	–	–	L 245 GA	TS E 250	–	–	–	–	1.0459	–
–	St E255	–	–	K01800	–	–	–	–	–	–	1.0461	–
–	TStE 255	–	–	K11535	–	–	–	–	–	–	1.0463	–
–	15 Mn 3 Al	–	–	–	C 14 GAl	–	–	–	–	–	1.0468	–
–	21 Mn 4	–	–	–	–	–	20 Mn 4	–	–	–	1.0469	–
–	19 Mn 6/P 355 GH	P 355 GH	SGV 46	K03300	P355GH	A 52 CP	Fe E355-2	2101	–	–	1.0473	–
–	17 Mn 4/P 295 GH	224-460B	SG 37	K03501	P 295 GH	A 48 CP	Fe E 295	2102	–	–	1.0481	–
–	19 Mn 5	224-460	SG 37	K 03102	–	A 52 CP; AP; FP	Fe 460- 2 KW	–	–	–	1.0482	–
–	L 290 AG	–	–	–	L290GA	TS E 290	–	–	–	–	1.0483	–
–	L 290 NB	–	–	–	L290NB	L 290 NB	–	–	–	–	1.0484	–
–	21 Mn 6	–	–	K12320	–	–	–	–	–	–	1.0485	–
–	St E 285	P 275 N	SM 41 A	K 01802	P 275 N	P 275 N	Fe E 285 KG	–	–	–	1.0486	–
–	W St E 285	P 275 N	–	K 01802	P 275 NH	P 275 N	Fe E 285 KW	–	–	–	1.0487	–
–	T St E 285	P 275 NL 1	SLA 235 A	K 01803	P 275 NL 1	P 275 NL 1	Fe E 285 KT	–	–	–	1.0488	–
–	H 300/ZSt E 300	H280LA	–	–	H 280 LA	E 280 C	–	–	–	–	1.0489	–
–	S 275 NH	S 275 NH	–	–	S 275 NH	–	S 275 NH	–	–	–	1.0493	–
–	S 275 NLH	S275NLH	–	–	S 275 NLH	–	S275NLH	–	–	–	1.0497	–
–	L 360 GA	–	–	–	L 360 GA	–	–	–	–	–	1.0499	–
–	C 35 Pb/C 35 GPb	–	–	–	C 35 Pb	–	–	–	–	–	1.0502	–
–	St E 315/P 315N	–	SM 50 A	K11506	P 315 N	–	Fe E 315 KG	–	–	–	1.0505	–
–	W St E 315	–	SNC 1	K02404	P 315 NH	–	Fe E 315 KW	2107	–	–	1.0506	–
–	St 55	–	STKM 16A	–	–	–	Fe 540	–	–	–	1.0507	–
–	T St E315	–	SLA 325 A	K02404	P 315 NL	–	–	2106	–	–	1.0508	–
–	C 40 Pb	–	–	–	C 40 G Pb	–	–	–	–	–	1.0512	–
–	C38D	–	SWRH 37	–	C 38 D	FM 38	C 38 D	–	–	–	1.0516	–
–	C48D	–	SWRH 48	–	C 48 D	FM 48	C 48 D	–	–	–	1.0517	–
–	C56D	–	–	–	C 56 D	FM 56	C 56 D	–	–	–	1.0518	–
–	StSch 700 (R 0 700)	–	–	–	R 0700	–	–	–	–	–	1.0521	–
–	StSch800 (R 0 800)	–	–	–	R 0800	–	–	–	–	–	1.0524	–
–	Cf 45 Pb	–	–	–	–	–	C 46	–	–	–	1.0526	–
–	C32D	–	SWRH 32	K02701	C 32 D	FM 32	C 32 D	–	–	–	1.0530	–
–	GL-A 40 (S 390 G 1 S)	–	–	–	S 390 G 1 S	–	–	–	–	–	1.0532	–
–	S 355 NH	S 355 NH	–	–	S 355 NH	–	S 355 NH	–	–	–	1.0539	–
–	C42D	–	SWRH 42 B	–	C 42 D	FM 42	C 42 D	–	–	–	1.0541	–
–	Schienen 60 F(R 0600/ St Sch 60)	–	–	–	R 0600	–	–	–	–	–	1.0544	–
–	S 355 J0 H	50 C	–	–	S 355 J0 H	–	S 355 J0 H	–	–	–	1.0547	–
–	ZStE 340/H 340	H 320 L A	–	–	H 320 LA	E 315 C	–	–	–	–	1.0548	–
–	S 335 NLH	50 EE	–	–	S 355 N LH	–	S 355 N L H	–	–	–	1.0549	–
–	GS-52	A2	–	–	GE 260	–	–	–	–	–	1.0552	–
–	S 355 J0	En 50 C;S 355 J0	SM 520 M	–	S 355 J0	S 355 J0; E 36-3	S 355 J0; Fe 510 C FN	–	–	–	1.0553	–
–	GS-70	50 C	–	–	S 355 J0 C	E 36-3	Fe 510 C	–	–	–	1.0554	–
–	GS-62	–	–	–	S 355 GO 1	–	–	–	–	–	1.0555	–
–	ZStE 420/H 420	46/40HR,HS,CS	–	–	H 400 LA	H 400 LA	–	–	–	–	1.0556	–
–	P355 NB	–	SG 365	–	P 355 NB	BS 4	–	–	–	–	1.0557	–
–	GS-62.3	–	–	–	S 355 GO 2	–	–	–	–	–	1.0559	–
A 633 Gr. C	St E 355	P 355 N	SM 50 YB	K12000	P 355 N	E 355 R/FP	Fe E 355 KG	2132	–	–	1.0562	–
–	N 80	–	–	–	–	–	–	–	–	–	1.0564	–
–	W St E 355	P 355 NH	–	K01600	P 355 NH	P 355 NH	Fe E 355 KW	–	–	–	1.0565	–
–	T St E355	P 355 NL1	SLA 37	–	P 355 NL1	P 355 NL1	Fe E 355 KT	–	–	–	1.0566	–
–	32 Mn 3	–	–	–	–	–	–	–	–	–	1.0567	–
–	P355 QH1	P 355 QH	–	–	P 355 QH	P 355 QH	–	–	–	–	1.0571	–
–	ZStE 460/H 460	–	–	–	–	–	–	–	–	–	1.0574	–
–	S 355 J 2 G 4	S 355 J 2 G 4	–	–	S 355 J 2 G 4	S 355 J 2 G 4	S 355 J 2 G 4	–	–	–	1.0577	–
–	L 360 MB	–	–	–	L 360 MB	L 360 MB	–	–	–	–	1.0578	–
–	St 52,4	–	STS 49	–	–	–	–	–	–	–	1.0581	–
–	L 360 NB/StE 360.7	–	–	–	L360NB	L 360 NB	–	–	–	–	1.0582	–
–	S 355 J 2 G 3 Cu/St 52-3 Cu3	–	–	–	S 355 J2 G3 Cu + CR	–	–	–	–	–	1.0585	–
–	C50D	–	–	–	C 50 D	FM 50	C 50 D	–	–	–	1.0586	–
–	QSt 52-3 Cu 3	–	–	–	S 355 J2 G3 Cu C	–	–	–	–	–	1.0587	–
–	D 53-2	–	SWRH 52 B	–	C 52 D	FM 52	C 52 D	–	–	–	1.0588	–
–	FStE 355 OS 3/S355G03	–	–	K12000	S 355 G03	–	–	–	–	–	1.0591	–
–	S 355 J 2 G 4 Cu	–	–	–	S 355 J2 G4 Cu	–	–	–	–	–	1.0592	–
–	S355k2G3/Fe 510 DD1 (MULTIST)	S 355 K 2 G 3	SM 520 C	K02505	S 355 K 2 G 3	E36-4	S 355 K 2 G 3	–	–	–	1.0595	–
–	S355K2G4/Fe 510 DD 2 (MULTIST)	S 355 K 2 G 4	–	–	S 355 K 2 G 4	S 355 K 2 G 4	S 355 K 2 G 4	–	–	–	1.0596	–
–	C 30 Pb	–	–	–	C 3 0 GPb	–	–	–	–	–	1.0598	–
–	C 60 Pb	–	–	–	C 60 GPb	–	–	–	–	–	1.0602	–
–	C 67 GPb/C 67 Pb	–	–	–	C 67 GPb	–	–	–	–	–	1.0606	–
–	C 75 GPb/C 75 Pb	–	–	–	C 75 GPb	–	–	–	–	–	1.0607	–

NOT: Etiket için, bkz. sayfa Y217.

(devamı)

P4 İş parçası malzeme listesi • Çelik • P4 *(devamı)*

P4 Alaşım çelikler ve Takım çelikleri *İçerik: C >%0,25* *Çekme mukavemeti RM (MPa)*: 850–1400* *Sertlik (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	C62D	–	SWRH 62 B	–	C 62 D	FM 62	C 62 D	–	–	–	1.0611	–
–	C66D	–	–	–	C 66 D	FM 66	C 66 D	–	–	–	1.0612	–
–	C68D	–	SWRH 67 B	–	C 68 D	FM 68	C 68 D	–	–	–	1.0613	–
–	C70D	–	–	–	C 70 D	FM 70	C 70 D	–	–	–	1.0615	–
–	C72D	–	SWRH 72 B	–	C 72 D	FM 72	C 72 D	–	–	–	1.0617	–
–	GS-C 25	–	SCPH 1	–	GP 240 GH	GP 240 GH	GP 240 Gh	–	–	–	1.0619	–
–	GP 240 GR	–	–	–	GP 240 GR	GP 240 GR	GP 240 GR	–	–	–	1.0621	–
–	C80D	–	–	–	C 80 D	FM 80	C 80 D	–	–	–	1.0622	–
–	StSch 900 A (R 0900)	–	–	–	R 0900	–	–	–	–	–	1.0623	–
–	StSch 900 B (R 0900 Mn)	–	–	–	R 0900 Mn	–	–	–	–	–	1.0624	–
1345	StSch 90 C/GP 280 GH	–	–	G13450	GP 280 GH	GP 280 GH	GP 280 GH	–	–	–	1.0625	–
–	C82D	–	SWRH 82 B	–	C 82 D	FM 82	C 82 D	–	–	–	1.0626	–
–	C88D	–	–	–	C 88 D	–	C 88 D	–	–	–	1.0628	–
–	StSch 1200 (R 1200)	–	–	–	R 1200	–	–	–	–	–	1.0631	–
–	C 61/60 Mn 3	–	–	–	C 61	–	C 61	–	–	–	1.0642	–
–	C 85/85 Mn 3	–	–	–	C 85	–	C 85	–	–	–	1.0647	–
–	35 SPb 20	35 SPb 20	–	–	35 SPb 20	35 SPb 20	–	–	–	–	1.0756	–
–	45 SPb 20	–	–	–	46 SPb 20	–	–	–	–	–	1.0757	–
–	38 SMnPb 28	38 SMnPb 28	–	–	38 SMnPb 28	38 SMnPb 28	–	–	–	–	1.0761	–
–	44 SMn 28	44 SMn 28	–	–	44 SMn 28	44 SMn 28	–	–	–	–	1.0762	–
–	44 SMnPb 28	44 SMnPb 28	–	–	44 SMnPb 28	44 SMnPb 28	–	–	–	–	1.0763	–
–	36 SMnPb 14	36 SMnPb 14	–	–	36 SMnPb 14	36 SMnPb 14	–	–	–	–	1.0765	–
9255	51 Si 7	250 A 53	–	G92550	–	51 S 7	48 Si 7	2090	–	–	1.0903	–
9255	55 Si 7	250 A 53	SKH 1; SKT 4	G92550	55 NiCrMoV 7	55 S 7	55 Si 8	2085	–	–	1.0904	–
–	StSch 1100 (R 1100 Cr)	–	–	–	R 1100 Cr	–	–	–	–	–	1.0915	–
9262	60 SiCr 7	250 A 61	SUP 7	G92620	60 SiCr 8	60 SC 7	60 SiCr 8	–	–	–	1.0961	–
–	QSt E 690 TM (S 700 MC)	–	–	–	S 700 MC	S 690 MC	S 700 MC	–	–	–	1.0966	–
–	QSt E 260 N 7 S 260 NC	–	AE 275 NC	–	S 260 NC	–	S 260 NCX	–	–	–	1.0971	–
–	QSt E 300 TM/S 315 MC	43 F35 HR,HS,CS	–	–	S 315 MC	E 315 D	S 315 MC	–	–	–	1.0972	–
–	QSt E 300 N 7/S 315 NC	–	AE 340 NC	–	S 315 NC	–	S 315 NC	–	–	–	1.0973	–
–	QSt E340 TM	HR 40/30	–	–	S 340 MC	E 335 D	–	–	–	–	1.0974	–
–	QSt E340 N	–	–	–	S 340 NC	–	Fe E 355 TD	–	–	–	1.0975	–
–	QSt E 360TM	–	–	–	S 355 MC	E 355 D	Fe E 355 TM	–	–	–	1.0976	–
–	QSt E360 N	–	–	–	S 355 NC	–	Fe E 355 TD	–	–	–	1.0977	–
–	QSt E380 TM	–	–	–	S 380 MC	E 390 D	–	–	–	–	1.0978	–
–	QSt E380 N	–	–	–	S 380 NC	–	Fe E 380 TD	–	–	–	1.0979	–
–	QSt E420 TM	HR 50 F 45	–	–	S 420 MC	E 430 D	Fe E 420 TM	–	–	–	1.0980	–
–	QSt E 420 N	–	–	–	S 420 NC	–	Fe E 420 TD	–	–	–	1.0981	–
–	QSt E 460 TM	50/45 HR	–	–	S 460 MC	E 445 D	–	–	–	–	1.0982	–
–	QSt E 460 N	–	–	–	S 460 NC	–	Fe E 460 TD	–	–	–	1.0983	–
–	QSt E500 TM	–	–	–	S 500 MC	E 490 D	Fe E 490 TM	2662	–	–	1.0984	–
–	QSt E500 N	–	–	–	S 500 NC	–	–	–	–	–	1.0985	–
–	QSt E550 TM	60/55 HS	–	–	S 550 MC	E 560 D	Fe E 560 TM	–	–	–	1.0986	–
–	QSt E550 N	–	–	–	S 550 NC	–	–	–	–	–	1.0987	–
–	FStE 355 OS 3/S355G04	–	–	–	S 355 G04	–	–	–	–	–	1.1102	–
–	EStE 285	P 275 NL 2	STK 400	–	P 275 NL 2	P 275 NL 2	P 275 NL 2	–	–	–	1.1104	–
–	EStE 315	–	–	–	S 315 NL 1	–	–	–	–	–	1.1105	–
–	EStE 355	P 355 NL 2	STK 500	–	P 355 NL 2	P 355 NL 2	P 355 NL 2	–	–	–	1.1106	–
–	C5D2	–	–	–	C 5 D 2	FM 6	C 5 D 2	–	–	–	1.1111	–
–	USD 5/C 8 E1 W	–	–	–	C 8 E 1 W	–	–	–	–	–	1.1112	–
–	C8D2	–	–	–	C 8 D 2	FM 8	C 8 D 2	–	–	–	1.1113	–
–	C 10 E W/RSD 11	–	–	–	C 10 EW	–	–	–	–	–	1.1115	–
–	USD 6/C 8 E2 W	–	–	–	C 8 E 2 W	–	–	–	–	–	1.1116	–
–	G 24 Mn 4/GS 24 Mn 4	–	–	–	G 24 Mn 4	–	–	–	–	–	1.1136	–
–	C32D2	–	–	–	C 32 D 2	FM 32	C 32 D 2	–	–	–	1.1143	–
–	C36D2	–	–	–	C 36 D 2	FM 36	C 36 D 2	–	–	–	1.1145	–
–	C38D2	–	–	–	C 38 D 2	FM 38	C 38 D 2	–	–	–	1.1150	–
–	C 25 R	C 25 R	–	–	C 25 R	C 25 R	C 25 R	–	–	–	1.1163	–
–	C48D2	–	–	–	C 48 D 2	FM 48	C48 D 2	–	–	–	1.1164	–
1330	GS-30 Mn 5	120 M 36	SMn 433 H; SCMn 2	K13300	–	35 M 5	–	1330	–	–	1.1165	–
1335	36 Mn 5	150 M 36	SMn 438(H)	G13350	–	40 M 5	–	2120	–	–	1.1167	–
–	G 40 Mn 5/GS 40 Mn 5	–	–	–	G 40 Mn 5	–	–	–	–	–	1.1168	–
–	20 Mn 6	150 M 19	–	–	–	20 M 5	20 Mn 6	–	–	–	1.1169	–
–	C50D2	–	–	–	C 50 D 2	FM 50	C50D 2	–	–	–	1.1171	–
–	Ck 38 Pb	–	–	–	25 Mn 4	–	–	–	–	–	1.1177	–
–	C 30 R	C 30 R	C 30 R (3 C 30)	–	C 30 R	C 30 R	C 30 R	–	–	–	1.1179	–
–	Ck 35 Pb	–	–	–	S 355 G 13	–	–	–	–	–	1.1182	–
–	Ck 36	–	–	–	S 355 G 14	–	–	–	–	–	1.1184	–
–	C3D1	–	–	–	C 3 D 1	–	C 3 D 1	–	–	–	1.1187	–
–	C40R/Cm 40	C 40 R	–	–	C 40 R	C 40 R	C 40	–	–	–	1.1189	–
–	C52D2	–	–	–	C 52 D 2	FM 52	C 52 D 2	–	–	–	1.1202	–
–	C 53 R/Cm 53	–	–	–	C 53 R	–	–	–	–	–	1.1205	–
–	C 10 R	C 10 R	–	–	C 10 R	C 10 R	–	–	–	–	1.1207	–
–	C 16 R	C 16 R	–	–	C 16 R	C 16 R	–	–	–	–	1.1208	–
–	C58D2	–	–	–	C 58 D 2	FM 58	C 58 D 2	–	–	–	1.1212	–
–	Ck 53 Pb	–	–	–	C 90 S	–	–	–	–	–	1.1217	–
–	C62D2	–	–	–	C 62 D 2	FM 62	C 62 D 2	–	–	–	1.1222	–
–	Cm 60	C 60 R	–	–	3 C 60	C 60 R	C 60 R	–	–	–	1.1223	–
–	C60D2	–	–	–	C 60 D 2	FM 60	C 60 D 2	–	–	–	1.1228	–
–	C68D2	–	–	–	C 68 D 2	FM 68	C 68 D 2	–	–	–	1.1232	–
–	C66D2	–	–	–	C 66 D 2	FM 66	C 66 D 2	–	–	–	1.1236	–
–	C50R	C 50 R	–	–	C 50 R	FM 50	C 50 R	–	–	–	1.1241	–
–	C72D2	–	–	–	C 72 D 2	FM 72	C 72 D 2	–	–	–	1.1242	–
–	C70D2	–	–	–	C 70 D 2	FM 70	C 70 D 2	–	–	–	1.1251	–
–	C78D2	–	–	–	C 78 D 2	FM 78	C 78 D 2	–	–	–	1.1252	–
–	C76D2	–	–	–	C 76 D 2	FM 76	C 76 D 2	–	–	–	1.1253	–
–	C80D2	–	–	–	C 80 D 2	FM 80	C 80 D 2	–	–	–	1.1255	–
–	C82D2	–	–	–	C 82 D 2	FM 82	C 82 D 2	–	–	–	1.1262	–
–	C86D2	–	–	–	C 86 D 2	FM 86	C 86 D 2	–	–	–	1.1265	–
–	C88D2	–	–	–	C 88 D 2	–	C 88 D 2	–	–	–	1.1272	–
–	C92D2	–	–	–	C 92 D 2	–	C 92 D 2	–	–	–	1.1282	–
–	C98D2	–	–	–	C 98 D 2	–	C 98 D 2	–	–	–	1.1283	–
–	46 MnVS 6	–	–	–	46 MnVS 6	–	–	–	–	–	1.1304	–
–	C 90 U	–	–	–	C90U	–	–	–	–	–	1.1535	–
–	C 110 W	–	–	–	C 110 U	–	–	–	–	–	1.1554	–
–	C 120 U	–	–	–	C120U	–	–	–	–	–	1.1555	–
T 8	C 80 W2	BW 1B	SKC 3	T12008	–	Y1 80	C 80 KU	–	–	–	1.1625	–
–	C 105 W2	–	SK 3	–	–	–	–	–	–	–	1.1645	–
–	C 135 W	–	SK 1	–	–	Y2 140	C 140 KU	–	–	–	1.1673	–
A-6	C 67 W	–	–	T30106	–	Y1 70	–	–	–	–	1.1744	–

(devamı)

P4 İş parçası malzeme listesi • Çelik • P4 *(devamı)*

P4 Alaşım çelikler ve Takım çelikleri *İçerik: C >%0,25* *Çekme mukavemeti RM (MPa)*: 850–1400* *Sertlik (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	125 Cr 1	–	–	–	125 Cr 2	Y2 120 C	–	–	–	–	1.2002	–
–	85 Cr 1	–	–	–	–	Y1 100 C 2	–	–	–	–	1.2004	–
–	140 Cr 3	–	SKS 8	–	140 Cr 2	Y2 140 C	–	–	–	–	1.2008	–
–	105 Cr 4	–	SKC 11	–	–	–	–	–	–	–	1.2057	–
–	21 MnCr 5	–	SCR 420 H	–	21 MnCr 5	20 NC 5	–	–	–	–	1.2162	–
–	35 CrMo 7	–	–	–	35 CrMo 7	–	–	–	–	–	1.2302	–
–	48 CrMoV 67	–	–	–	–	45 CDV 6	–	–	–	–	1.2323	–
P6	15 NiCr 14	–	SNC 22	T51606	–	10 NC 12	–	–	–	–	1.2735	–
–	40 CrMnNiMo 8 6 4	–	–	–	40 CrMnNiMo 8-6-4	–	–	–	–	–	1.2738	–
–	57 NiCrMoV 7 7	–	–	–	55 NiCrMoV 7	–	–	–	–	–	1.2744	–
–	70 MnMoCr 8	–	–	–	70 MnMoCr 8	–	–	–	–	–	1.2824	–
–	95 MnWCr 5	–	–	–	95 MnWCr 5	–	–	–	–	–	1.2825	–
–	60 MnSi 4	–	–	–	–	60 MSC 4	–	–	–	–	1.2826	–
–	101 Cr 6	–	–	–	–	–	102 Cr 6 KU	–	–	–	1.3514	–
–	16 CrNiMo 6	820A16	–	–	–	16 NCD 6	16NiCrMo6	–	–	–	1.3531	–
–	100 CrMn 7 3	–	–	–	100 CrMnMo 7	100 CD 7	–	–	–	–	1.3536	–
–	100 CrMo 7	–	SUS 4	K19965	100 CrMo 7	100 CD 7	100CrMo7	–	–	–	1.3537	–
–	100 CrMnMo 8	–	–	–	–	100 CrMnMo 8	–	–	–	–	1.3539	–
5046	44 Cr 2	–	–	H50460	46 Cr 1 KD	44 Cr 2	–	–	–	–	1.3561	–
4142	43 CrMo 4	–	–	G41420	–	43 Cr Mo 4	–	–	–	–	1.3563	–
4147	48 CrMo 4	817 M 40	SNC 836	H41470	–	48 CrMo 4	–	–	–	–	1.3565	–
–	46 Si 7	–	–	–	45 Si	46 S 7	–	–	–	–	1.5024	–
9259H	51 Si 7	–	–	–	50 Si 7	–	48 Si 7	2090	–	–	1.5025	–
–	55 Si 7	250 A 53	–	G92550	56 Si 7	55 S 7	55 Si 8	2085	–	–	1.5026	–
9260	60 Si 7	251 A 60	–	G92600	60 Si 7	60 S 7	60 Si 7	–	–	–	1.5027	–
–	65 Si 7	–	SUP 7	–	–	–	–	–	–	–	1.5028	–
–	12 Mn 8	–	–	–	11 Mn 8 KE	–	–	–	–	–	1.5086	–
9262	60 SC 7	–	–	G92620	60 SiCr 8	61 SC 7	60 SiCr 8	–	–	–	1.5092	–
–	37 MnSi 5	–	–	–	–	38 MS 5	–	F.130.A	–	–	1.5122	–
–	50 MnSi 4	–	–	K04800	–	–	–	–	–	–	1.5131	–
–	15 MnMoV 4 5	–	–	–	15 MnMoV 4-5	15 MDV 4.05	–	–	–	–	1.5402	–
A 204 Gr. A	15 Mo 3	1501-240	STFA 12	K11820	16 Mo 3	15 D3	16 Mo 3 KW	2912	–	–	1.5415	–
4419	GS-22 Mo 4	243-430	SCPH 11	G44190	G 20 Mo 5	G20Mo5	G 22 Mo 5	–	–	–	1.5419	–
–	20 MnMo 3 5	–	–	K12121	–	–	–	–	–	–	1.5421	–
–	G 18 Mo 5	–	–	–	G18Mo5	–	G 18 Mo5	–	–	–	1.5422	–
4520	16 Mo 5	1503-245-420	SBC 690	K11522	–	–	16 Mo 5	–	–	–	1.5423	–
–	11 MnMo 4 5	–	–	K11123	11 MnMo 45 KE	–	–	–	–	–	1.5425	–
–	13 MnMo 6 5	–	–	K11424	11 MnMo 65 KE	–	–	–	–	–	1.5426	–
–	13 MnMo 8 5	–	–	K11423	11 MnMo 85 KE	–	–	–	–	–	1.5427	–
–	35 B 2	–	SWRCHB 237	–	C 35 B	35 B 3	–	–	–	–	1.5511	–
15B21 H	19 MnB 4	170 H 20	SWRCHB 420	H15211	19 MnB 4	20 MB 5	–	–	–	–	1.5523	–
15B21 H	20 MnB 5	–	SWRCHB 620	–	20 MnB 5	20 MnB 5	20 MnB 5	–	–	–	1.5530	–
–	24 Ni 8	–	SCPL 21	J22501	G 9 Ni 10	22 N 8	G9Ni10	–	–	–	1.5633	–
A 350-LF 5	10 Ni 14	503	SL 3 N 26	K31718	12 Ni 14	12Ni14	18 Ni 14 KT	–	–	–	1.5637	–
P3	10 NC 6	–	–	T51603	15 NiCr 6	10 NC 6	–	–	–	–	1.5713	–
–	10 NiCr 5 4	10NiCr5-4	–	–	10 NiCr 5-4	10 NiCr 5-4	–	–	–	–	1.5805	–
–	18 MnMoNi 5 5	–	–	–	18 MnMoNi 5-5	–	–	–	–	–	1.6308	–
–	20 MnMoNi 4 5	–	SQV 2 B	K12539	20 MnMoNi 4-5	–	–	–	–	–	1.6311	–
–	10 NiMnMo 6 5	–	–	K11160	–	–	–	–	–	–	1.6312	–
–	16 NiCrMO 12 6	–	–	–	–	16 NCD 13	–	–	–	–	1.6782	–
–	15 MnCrMoNiV 5 3	–	–	–	15 MnCrMoNiV 5-3	–	–	–	–	–	1.6920	–
50B40	37 CrB 1	120 M 36	SMnC 3 H	H50401	38 Cr 2	–	35 CB 1	–	–	–	1.7007	–
–	13 Cr 2	–	–	–	–	–	–	–	–	–	1.7012	–
–	17 CrS 3	17 CrS3	–	–	17 CrS 3	17 CrS 3	–	–	–	–	1.7014	–
5015	15 Cr 3	523 M15	SCr 415 H	G50150	15 Cr 2	12 C 3	–	–	–	–	1.7015	–
5117	17 Cr 3	17 Cr 3	–	G51170	(15 Cr 2 KD)	18 C 3	–	–	–	–	1.7016	–
5130 H	34 Cr 4	530 A 32	SCr 430 H	G51300	34 Cr 4 KD	32 C 4	34 Cr 4 KB	–	–	–	1.7033	–
5132 H	37 Cr 4	530 A 36	SCr 435 H	G51320	37 Cr 4	38 C 4	36 CrMn 4	–	–	–	1.7034	–
5140	41 Cr 4	530 M 40	SCr 440 H	G51400	41 Cr 4	42 C 4	41 Cr 4	–	–	–	1.7035	–
–	28 CrS 4	–	–	–	28CrS4	28CrS4	–	–	–	–	1.7036	–
–	34 CrS 4	34 CrS 4	–	–	34 CrS 4	34 CrS 4	34 CrS 4	–	–	–	1.7037	–
–	41 CrS 4	41 CrS 4	–	–	41 CrS 4	41 CrS 4	41 CrS 4	2245	–	–	1.7039	–
–	38 Cr 4	–	–	–	38 Cr 4	–	38 Cr 4	–	–	–	1.7043	–
5140	42 Cr 4	530 A 40	SCr 440	–	40 NiCrMo 3	42 C 4 TS	40 NiCrMo 3	2245	–	–	1.7045	–
–	54 SiCr 6	–	–	–	–	54 SC 6	–	–	–	–	1.7102	–
–	67 SiCr 5	–	–	–	67 SiCr 5	–	67 SiCr 5	–	–	–	1.7103	–
9262	60 SiCr 7	–	–	–	60 SiCr 8	–	–	–	–	–	1.7108	–
–	52 SiCrNi 5	–	–	–	–	52 SCN 5	–	–	–	–	1.7117	–
5115	16 MnCr 5	527 M 17	SCR 415	G 51150	16 MnCr 5 KD	16 MC 5	16 MnCr 5	2173	–	–	1.7131	–
–	49 CrMo 4	–	SCM 445	–	–	–	–	–	–	–	1.7238	–
–	16 CrMo 4	18 CrMo4	SCM 418 H	–	18 CrMo 4	15 CD 3,5	18 CrMo 4	–	–	–	1.7242	–
–	10 CrMo 11	–	–	–	–	12 CD 10	–	–	–	–	1.7276	–
–	16 CrMo 9 3	–	–	–	–	20 CD 8	–	–	–	–	1.7281	–
–	22 CrMoS 3 5	–	–	–	22 CrMoS 3-5	22 CrMoS 3-5	–	–	–	–	1.7333	–
A 387 Gr. 12 Cl. 2	16 CrMo 4 4	–	–	K11564	–	–	A 18 CrMo 4 5 KW	–	–	–	1.7337	–
–	12 CrMo 8 5	–	–	K21509	–	–	–	–	–	–	1.7358	–
–	12 CrMo 19 5	3606-625	SCMV 6	K41545	X 12 CrMo 5	Z 10 CD 5.05	16 CrMo 20 5	–	–	–	1.7362	–
–	X 7 CrMo 6 1	B 5	–	S50281	CM 5-IG	–	–	–	–	–	1.7373	–
–	12 CrMo 9 10	–	–	–	–	12 CrMo 9-10	–	–	–	–	1.7375	–
–	SG-CrMo 9	–	–	S50480	–	–	–	–	–	–	1.7388	–
–	51 CrMoV 4	–	–	–	51 CrMoV 4	51 CDV 4	51 CrMoV 4	–	–	–	1.7701	–
–	21 CrMoV 5 7	–	–	K14073	21 CrmoV 5-7	20 CDV 5,07	–	–	–	–	1.7709	–
–	20 CrMoVTiB 4 10	–	–	–	20 CrMoVTiB 4-10	20 CrMoVTiB 4-10	–	–	–	–	1.7729	–
6150	50 CrV 4	735 A 50	SUP 10	G61500	51 CrV 4	50 CV 4	50 CrV 4	2230	–	–	1.8159	–
–	PS 275 TMK	S 275 ML	–	–	S 275 ML	S 275 ML	S 275 ML	–	–	–	1.8819	–
–	S 355 G1 M	–	–	–	S 355 G 1 M	–	–	–	–	–	1.8822	–
–	BTStE 460 TM	S 460 ML	–	–	S 460 ML	E 460	S 460 ML	–	–	–	1.8838	–
–	S 500 ML	–	–	–	S 500 ML	–	–	–	–	–	1.8839	–

NOT: Etiket için, bkz. sayfa Y217.

(devamı)

P4 İş parçası malzeme listesi • Çelik • P4 *(devamı)*

P4 Alaşım çelikler ve Takım çelikleri *İçerik: C >%0,25* *Çekme mukavemeti RM (MPa)*: 850–1400* *Sertlik (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	S 275 MH	–	–	–	S 275 MH	–	S 275 MH	–	–	–	1.8843	–
–	S 275 MLH	–	–	–	S 275 MLH	–	S 275 MLH	–	–	–	1.8844	–
–	S 355 MH	–	–	–	S 355 MH	–	S 355 MH	–	–	–	1.8845	–
–	S 355 MLH	–	–	–	S 355 MLH	–	S 355 MLH	–	–	–	1.8846	–
–	S 420 MH	–	–	–	S 420 MH	–	S 420 MH	–	–	–	1.8847	–
–	S 420 MLH	–	–	–	S 420 MLH	–	S 420 MLH	–	–	–	1.8848	–
–	S 460 MH	–	–	–	S 460 MH	–	S 460 MH	–	–	–	1.8849	–
–	S 460 MLH	–	–	–	S 460 MLH	–	S 460 MLH	–	–	–	1.8850	–
–	FStE 355 OS 4/ S420G5Q	–	–	–	S 420 G 2	–	–	–	–	–	1.8853	–
–	P 550 QL	–	–	–	P 550 QL	–	–	–	–	–	1.8878	–
–	StE 460	S 460 N	–	–	S 460 N	E 460	S 460N	–	–	–	1.8901	–
A 633 Gr. E	St E 420	S 420 N	SM 50 C	K02002	FeE 420 KGN	E 420-I	Fe E 420 KG	2143	–	–	1.8902	–
–	TStE 460	S 460 L	–	–	S 460 NL	E460	S 460 NL	–	–	–	1.8903	–
–	S 550 Q	–	–	–	S 550 Q	E 550	S 550 Q	–	–	–	1.8904	–
A 633 Gr. E	St E 460	P 460 N	SM 53 B	K02900	P 460 N	E 460-I	Fe E 460 KG	2143	–	–	1.8905	–
–	BGH 8906	55 F	–	–	S 460 QL	S 460 QL	S 460 QL	–	–	–	1.8906	–
–	St E 500	–	SM 58	K02001	–	–	–	–	–	–	1.8907	–
–	S 460 Q	55 F	–	–	S 460 Q	E 460	S 460 Q	–	–	–	1.8908	–
–	S 420 NL/TStE 420	S 420 NL	STK 540	K02002	S 420 NL	E 420 T-I	Fe E 420 KT	–	–	–	1.8912	–
–	EStE 420/ S420NL1	–	STK 540	–	–	–	–	–	–	–	1.8913	–
–	S 620 Q	–	–	–	S 620 Q	E 620	S 620 Q	–	–	–	1.8914	–
–	T St E 460/ P460NL1	P 460 NL 1	–	K02900	P 460 NL1	E 460 T-I	Fe E 460 KT	–	–	–	1.8915	–
–	S 460 QL1	55 F	–	–	S 460 QL 1	–	–	–	–	–	1.8916	–
–	T St E 500	–	–	K02001	–	E 500 T-I	–	–	–	–	1.8917	–
–	EStE 460/ P460NI2	P 460 NL 2	–	–	P 460 NL 2	P 460 NL 2	P 460 NL 2	–	–	–	1.8918	–
–	EStE 500/ S500NL1	–	–	–	S 500 NL 1	–	–	–	–	–	1.8919	–
–	TStE 690 VB/ S690G2QL	–	–	K11646	S 690 G 2 QL	–	–	–	–	–	1.8921	–
–	S 690 G 4 QL/ TStE 690 VC	–	–	–	S 690 G 4 QL	–	–	–	–	–	1.8922	–
–	S 590 QL/TStE 590 V	–	–	–	S 590 QL	–	–	–	–	–	1.8923	–
–	S 500 Q (StE 500 V)	–	–	–	S 500 Q	E 500	S 500 Q	2614	–	–	1.8924	–
–	S 890 QL 1 (EStE 90 V)	–	–	–	S 890 QL 1	–	–	–	–	–	1.8925	–
–	S 690 QL (TStE 690 V)	–	SHY 685 NS	–	S 690 QL	–	–	–	–	–	1.8928	–
–	TStE 690 VD/ S690G3QL	–	–	–	S 690 G 3 QL	–	–	–	–	–	1.8929	–
–	S 690 Q/StE 690 V	–	SHY 685 N	–	S 690 Q	E 690	S 690 Q	–	–	–	1.8931	–
–	WSt E 420/ P420NH	S 420 NL	STK 540	K02002	S 420 NL	S 420 NL	Fe E 420 KW	–	–	–	1.8932	–
–	S 960 QL/TStE 960 V	–	–	–	S 960 QL	–	–	–	–	–	1.8933	–
–	WSt E 460/ P460NH	P 460 NH	–	K02900	P 460 NH	P 460 NH	Fe E 460 KW	–	–	–	1.8935	–
–	P420 QH	–	–	–	P 420 QH	–	–	–	–	–	1.8936	–
–	TStE 770 V/ S770QL	–	–	–	S 770 QL	–	–	–	–	–	1.8938	–
–	EStE 790 V/ S790QL1	–	–	–	S 790 QL 1	–	–	–	–	–	1.8939	–
–	S 960 Q	–	–	–	S 960 Q	E 960 T-II	S 960 Q	–	–	–	1.8941	–
–	S 550 G 1 QL 1/ EStE 550 VA	–	–	–	S 550 G 1 QL 1	–	–	–	–	–	1.8944	–
–	S 355 J 0 WP	WR 50 A	–	–	S 355 J0 WP	E 36 W-A3	S 355 J0 WP	–	–	–	1.8945	–
–	S 355 J 2 WP	S 355 J 2 WP	–	–	S 355 J2 WP	E36W-A4	S 355 J2 WP	–	–	–	1.8946	–
–	L 415 QB	–	–	–	L 415 QB	L 415 QB	–	–	–	–	1.8947	–
–	L 360 QB	–	–	–	L 360 QB	L 360 QB	–	–	–	–	1.8948	–
–	L 450 QB	–	–	–	L 450 QB	L 450 QB	–	–	–	–	1.8952	–
–	S 460 NH (FGS 47)	–	–	–	S 460 NH	–	S 460 NH	–	–	–	1.8953	–
–	EStE620VA/S 620 G 1 QL 1	–	–	–	S 620 G 1 QL 1	–	–	–	–	–	1.8954	–
–	L 485 QB	–	–	–	L 485 QB	L 485 QB	–	–	–	–	1.8955	–
–	S 460 NLH/FG S 47	–	–	–	S 460 NLH	–	S460NLH	–	–	–	1.8956	–
–	L 555 QB	–	–	–	L 555 QB	L 555 QB	–	–	–	–	1.8957	–
–	9 CrNiCuP 3 2 4	WR 50 A	SPA-H	K11430	–	–	–	–	–	–	1.8962	–
–	WTSt 52-3	WR 50 C	SMA 58 W	K11430	S 355 J 2 G 1 W	E 36 W-A2	–	–	–	–	1.8963	–
–	EStE 690 VA	–	–	–	S 690 G1 QL1	–	–	–	–	–	1.8964	–
–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	S 355 J 2 G 2 W	S 355 J 2 G 2 W	S 355 J 2 G 2 W	–	–	–	1.8965	–
–	S 355 K 2 G 1 W	S 355 K 2 G 1 W	SMA 490 CW	–	S 355 K2 G1 W	S 355 K2 G1 W	S 355 K 2 G 1 W	–	–	–	1.8966	–
–	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	S 355 K2G2W	S 355 K 2 G 2 W	S 355 K 2 G 2 W	–	–	–	1.8967	–
–	QStE 600 TM/S 600 MC	–	–	–	S 600 MC	E 620 D	S 600 MC	–	–	–	1.8969	–
–	StE 415..7/L 415 NB	–	–	–	L 415 NB	L 415 NB	–	–	–	–	1.8972	–
–	StE 415.7 TM/L 415 MB	–	–	–	L 415 MB	L 415 MB	–	–	–	–	1.8973	–
–	S 700 MC (QStE 690 TM)	–	–	–	S 700 MC	E 690 D	S 700 MC	–	–	–	1.8974	–
–	L 450 MB/StE 445.7 TM	–	–	–	L 450 MB	L 450 MB	–	–	–	–	1.8975	–
–	S 650 MC (QStE 650 TM)	–	–	–	S 650 MC	E 620 D	S 650 MC	–	–	–	1.8976	–
–	L 485 MB/StE 480.7 TM	–	–	–	L 485 MB	L 485 MB	–	–	–	–	1.8977	–
–	StE 550.7 TM/L 555 MB	–	–	–	L 555 MB	L 555 MB	–	–	–	–	1.8978	–

(devamı)

P4 İş parçası malzeme listesi • Çelik • P4 *(devamı)*

P4 Alaşım çelikler ve Takım çelikleri *İçerik: C >%0,25* *Çekme mukavemeti RM (MPa)*: 850–1400* *Sertlik (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
A 570 Gr. 50	St 50-2	4360-50 B	SS 50	–	E 295	A 50-2	Fe 490	2172	–	–	1.0050	–
–	St 60-2	4360-55 E	SM 58	–	E 335	A 60-2	Fe 60-2	1650	–	–	1.0060	–
–	St 70-2	E 360	–	–	E 360	A 70-2	Fe 70-2	1655	–	–	1.0070	–
–	C4D	–	–	–	C 4 D	FM 5	C 4 D	–	–	–	1.0300	–
–	C 22 8	–	–	–	P 250 GH	–	–	–	–	–	1.0460	–
–	H 260/ZSt E 260	H 240 LA	–	–	H 240 LA	E 240 C	–	–	–	–	1.0480	–
–	ZStE 380/H 380	H 360 L A	–	–	H 360 LA	E 355 C	–	–	–	–	1.0550	–
–	GL-E - 40 (S 390 G 3 S)	–	–	–	S 390 G 3 S	–	–	–	–	–	1.0560	–
–	C60D	–	–	–	C 60 D	FM 60	C 60 D	–	–	–	1.0610	–
–	C 64/64 Mn 3	–	–	–	C 64	–	–	–	–	–	1.0640	–
–	38 SMn 28	38 SMn 28	–	–	38 SMn 28	38 SMn 28	–	–	–	–	1.0760	–
–	QSt E 260 TM/5260 MC	–	–	–	S 260 MC	41 S 7	Fe E 275 TM	–	–	–	1.0970	–
–	C3D2	–	–	–	C 3 D 2	FM 5	C 3 D 2	–	–	–	1.1110	–
1330	28 Mn 6	150 M 28	SCMn 1	G 13300	28 Mn 6	35 M 5	C 28 Mn	–	–	–	1.1170	–
–	C 42 E Al/Ck 42 Al	–	–	–	S 355 G15	–	–	–	–	–	1.1190	–
–	C56D2/D 55-2	–	–	–	C 56 D 2	FM 56	C 56 D 2	–	–	–	1.1220	–
–	C 70 W1	–	–	–	CT 70	C 70 E 2 U	C 70 K U	–	–	–	1.1520	–
–	C 70 W2	–	–	–	C 70 U	–	–	–	–	–	1.1620	–
–	C 45 W	–	–	–	C 45 U	Y3 42	–	–	–	–	1.1730	–
–	C 60 W	–	SK 7	–	–	Y3 55	–	–	–	–	1.1740	–
–	100 CrMn 6	–	–	K19195	100 CrMn 6	100 CM 6	–	–	–	–	1.3520	–
–	28 B 2	–	SWRCHB 26	–	C 30 B	20 B 3	–	–	–	–	1.5510	–
5130	28 Cr 4	530 A 30	–	G51300	28 Cr 4	30 CD 4	–	–	–	–	1.7030	–
–	S 420 G1 M	–	–	–	P 550 M	–	–	–	–	–	1.8830	–
–	St E 380	–	SM 50 B	–	S 380 N	–	Fe E 390 KG	–	–	–	1.8900	–
–	TStE 380/ S380NL	–	–	–	S 380 NL	–	Fe E 390 KT	2117	–	–	1.8910	–
–	TStE 690 VA/ S690G1QL	–	–	–	S 690 G 1 QL	–	–	–	–	–	1.8920	–
–	WSt E 380/ P380Nh	–	–	–	P 380 NH	–	Fe E 390 KW	2116	–	–	1.8930	–
–	S 890 Q	–	–	–	S 890 Q	S 890 Q	S 890 Q	–	–	–	1.8940	–

P5 İş parçası malzeme listesi • Çelik • P5

P5 Ferritik, Martensitik ve PH Paslanmaz çelikler *Çekme mukavemeti RM (MPa)*: 600–900* *Sertlik (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
410 S	X 7 Cr 14	–	–	–	–	–	–	–	–	–	1.4001	–
405	X 6 CrAl 13	405 S 17	SUS 405	S40500	X 6 CrAl 13	Z 6 CA 13	X 6 CrAl 13	2302	–	–	1.4002	–
–	X 2 CrNi 1 2	–	–	–	Hyfab3/12	CLC4003	F12N(Mn<1,50)	–	–	–	1.4003	–
416	X 12CrS 13	416 S 21	SUS416	S41600	X 12 CrS 13	Z 12 CF 13	X12CrS13	2380	–	–	1.4005	ATI 416™
410	X 12Cr 13	410 S 21	SUS410	S 41000	(X 12 Cr 13 KD)	Z 12 C 13	X12Cr13	2302	–	–	1.4006	ATI 410™
414	GX 8 CrNi 1 3	410 C 21	SCS 1	S41400	GX 7 CrNiMo 12-1	Z 12 CN 13 M	GX 12 Cr 13	–	–	–	1.4008	–
–	X 8 Cr 14	–	SUS Y 410	S41080	X 8 Cr 13 KE	–	–	–	–	–	1.4009	B13Fe
–	GX 12 Cr 1 2	–	–	–	GX12Cr12	GX12Cr12	–	–	–	–	1.4011	–
–	N 3 2 0 (LW)	–	–	–	3S62	–	–	–	–	–	1.4014	–
–	X 8 Cr 18	–	SUS Y 430	S43080	–	–	–	–	–	–	1.4015	B17Fe
430	X 8 Cr 17	430 S 15	SUS430	S 43000	X 8 Cr 17	Z8C17	X8Cr17	2320	–	–	1.4016	ATI 430™
–	X 6 CrNi 17 1	–	–	–	X6CrNi17-1	F17N	X6CrNi17-1	–	–	–	1.4017	–
420	X20Cr13	420 S 37	SUS 420J1	S42000	X 20 Cr 13	Z20C13	X20Cr13	2303	–	–	1.4021	ATI 420™
403	X 15 Cr 13	420 S 29	SUS 410 J1	J91201	X 15 Cr 13	Z 12 C 13 M	X 12 Cr 13	2301	–	A403M	1.4024	ATI 403™
–	GX 20 Cr 1 4	420 C 29	SCS 2	–	–	Z 20 C 13 M	–	–	–	A743-4	1.4027	–
420	X 40 Cr 13	–	SUS 420 J2	S42080	X 40 Cr 13	Z 40 C 14	X 40 Cr 14	2304	–	–	1.4031	–
–	GX 120 Cr 29	425 C 11	–	–	–	–	–	–	–	F30C	1.4086	–
430 F	X 12 CrMoS 17	441 S 29	SUS 430 F	S 43020	X 14 CrMoS 17	Z 10 CF 17	X 10 CrS 17	2383	–	–	1.4104	–
430	X 4 CrMoS 18	–	SUS 430F	–	X 6 CrMoS 17	Z 6 CDF 18 - 02	–	–	–	–	1.4105	–
–	X 2 CrMoSiS 18 2 1	–	–	J91151	–	–	–	–	–	CA15	1.4106	–
–	GX 8 CrNi 1 2	–	–	–	GX 8 CrNi 12	GX8CrNi 12	G X 8 CrNi 12	–	–	–	1.4107	–
434	X 6CrMo 17	434 S 17	SUS434	S43400	434S17	Z8CD17-01	X8CrMo17	2325	–	–	1.4113	AL 434
–	X 15 CrMo 13	–	–	–	–	–	–	–	–	–	1.4119	–
–	GX 70 CrMo 29 2	–	–	–	–	Z 60 CD 29.2 M	–	–	–	–	1.4136	–
–	X 2 CrNi 24 12	309 S 93	–	–	X 2 CrNi 24 13 KE	Z 2 CN 24-14	–	–	–	–	1.4332	CN23/12-IG
–	X 5 NiCr 32 21	–	–	S33200	–	–	–	–	–	B536	1.4333	H521
–	GX 5 CrNiMo 16 5	–	–	–	GX 4 CrNiMo 16-5-1	GX4CrNiMo 16-5-1	G X 4 CrNiMo 16-5-1	–	–	–	1.4405	–
–	ERO 4411 A	–	–	–	GX 4 CrNiMo 16-5-2	GX 4 CrNiMo 16-5-2	–	–	–	–	1.4411	–
–	X 38 CrMo 14	–	–	–	–	–	–	–	–	–	1.4419	–
–	X 8 CrTi 18	–	–	–	X 6 Cr 18 KE	–	–	–	–	–	1.4502	–
430 Nb	X 6 CrNb 17	–	SUS 430 LX	–	X 3 CrNb 17	Z 8 CNb 17	X 6 CrNb 17	–	–	–	1.4511	AXC525
409	X 6 CrTi 12	409 S 19	SUH 409	S40900	X 5 CrTi 12	Z 6 CT 12	X 6 CrTi 12	–	–	–	1.4512	–
–	X 6 CrNiTi 12	–	–	–	X 6 CrNiTi 12	X 6 CrNiTi 12	X 6 CrNiTi 12	–	–	–	1.4516	–
–	X 2 CrTi 17	–	SUS 430 LX	–	X 2 CrTi 17	F 20T	X 2 CrTi 17	–	–	–	1.4520	–
–	X 8 CrMoTi 17	–	–	–	X 2 CrMoTiS 18 2	X2CrMoTiS18-2	–	–	–	–	1.4523	1802
–	GX 5 CrNiCu 16 4	–	–	–	GX 5 CrNiCu 16-4	GX 5 CrNiCu 16-4	–	–	–	–	1.4525	–
–	X 6 CrMoNb 17 1	–	–	–	X 6 CrMoNb 17-1	X6CrMoNb 17-1	F 17 MNb	–	–	–	1.4526	–
904 L	X 1 NiCrMoCuN 25 20 5	904 S 13	–	N08904	X 1 NiCrMoCuN 25 20 5	Z 1 NCDU 25 20	–	2562	–	–	1.4539	ATI 904L™
348	X 5 CrNiNb 18 10	S 527	–	J92640	–	–	X 6 CrNiNb 18 11	–	–	–	1.4546	ATI 348™
–	X 5 CrNiNb 19 9	–	SUS Y 347	S34780	X 5 CrNiNb 20 10 KE	Z 6 CNNb 20-10	–	–	–	–	1.4551	–
–	GX 7 NiCrMoCuNb 42 20	–	–	–	GX 7 NiCrMoCuNb 4220	–	–	–	–	–	1.4559	–
–	X 5 CrNiMoNb 19 12	318 S 96	–	S31980	X 5 CrNiMoNb 19 12 03 KE	Z 4 CNDSNb 19-12-03	–	–	–	–	1.4576	–
–	X 2 CrAlTi 18 2	–	–	–	X 2 CrAlTi 18-2	DMV 59	X 2 CrAlTi 18-2	–	–	–	1.4605	–
–	X 10 CrAl 7	–	–	–	X 10 CrAl 7	–	–	–	–	–	1.4713	–

NOT: Etiket için, bkz. sayfa Y217.

(devamı)

P5 İş parçası malzeme listesi • Çelik • P5 *(devamı)*

P5 Ferritik, Martensitik ve PH Paslanmaz çelikler *Çekme mukavemeti RM (MPa)*: 600–900* *Sertlik (HB): <330 (HRC): <35*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	X 215 Cr 12	–	–	–	–	–	–	–	–	–	1.4721	–
H-12	X 10 CrAl 13	BH 12	SUS 405	T20812	X 10 CrAl 13	Z 10 C 13	X 10 CrAl 12	–	–	–	1.4724	–
430	X 10 CrAl 18	(430 S 15)	SUH 21	S43000	–	Z 10 CAS 18	(X 8 Cr 17)	–	–	–	1.4742	–
446	X 10 CrAl 25	–	SUH 442	S44600	X 10 CrAl 24	Z 10 CAS 24	X 16 Cr 26	2322	–	–	1.4762	–
–	GX 40 CrNiSi 27 4	–	–	J92605	–	–	–	–	–	–	1.4823	–
–	X 12 CrNi 22 12	311 S 94	SUS Y 309	S30980	X 15 CrNi 23 13	–	X 16 CrNi 23 14	–	–	309	1.4829	–
–	X 9 CrNiSiNCe 21 11 2	–	–	–	X 9 CrNiSiNCe 21-11-2	–	–	–	–	–	1.4835	–
314	X 15 CrNiSi 25 20	314 S 25	SUH 310	S31400	X 15 CrNiSi 25 20	Z 15 CNS 25.20	X 16 CrNiSi 25 20	–	–	–	1.4841	Cronifer® 2520
–	X 12 CrNi 25 20	310 S 94	–	S31080	X 12 CrNi 26 21 KE	Z 12 CN 26-21	–	–	–	–	1.4842	–
–	CrNi 25 20	–	SCS 18	S31400	–	–	–	–	–	–	1.4843	–
310 S	X 12 CrNi 25 21	310 S 24	SUS 310 S	S31008	X 8 CrNi 25 21	Z 12 CN 25.20	X 6 CrNi 25 20	2361	–	–	1.4845	ATI 310S™
HK	X 40 CrNiSi 25 20	310 C 40	SCH 21	J94204	–	–	GX 40 CrNi 26 20	–	–	–	1.4848	–
–	GX 40 NiCrSiNb 38-18	–	–	–	3072,76	–	–	–	–	–	1.4849	–
–	GX 10 NiCrNb 32 20	–	–	J95151	–	–	–	–	–	–	1.4859	–
330	X 12 NiCrSi 35 16	NA 17	SUH 330	N08330	X 12 NiCrSi 35 1 6	Z 12 NCS 37.18	–	–	–	–	1.4864	–
–	X40NiCrSi38-18	330 C 40	SCH15/SCH16	J94605	330C11/330C40/331C40	–	GX50NiCr39-19	–	–	–	1.4865	–
–	GX 50 CrNi 30-30	–	–	N08801	–	Z5NCT3220	–	–	–	–	1.4868	–
B163	X 10 NiCrAlTi 32 20	NA 15	NCF800(TP)	–	NA15(H)	Z10NC32.21	–	–	B163	–	1.4876	B163
–	X 6 NiCrNbCe 32 27	–	–	–	X 6 NiCrNbCe 32-27	–	–	–	–	–	1.4877	–
–	X 12 NiCrSi 35 19	–	–	N08830	X1 0 NiCrSi 35 19	–	–	–	–	–	1.4886	330
–	X 10 NiCrSiNb 35 22	–	–	–	X10NiCrSiNb35-22	–	–	–	–	–	1.4887	–
–	X 10 CrMoV 9 1	–	–	S59180	X 10 CrMoV 9-1	–	–	–	–	–	1.4903	–
–	X 20 CrMoV 12 1	–	–	–	X 20 CrMoV 11-1	–	X 20 CrMoV 12 01 KW	2317	–	–	1.4922	–
–	GX 22 CrMoV 12 1	–	–	–	G-X 22 CrMoV 12 1	GX23CrMoV12-1	G X 23 CrMoV 12-1	–	–	–	1.4931	–
422	X 20 CrMoWV 12 1	–	SUH 616	S42200	–	–	X 22 CrMoWV 12 1	–	–	–	1.4935	–
661	X 12 CrCoNi 21 20	–	SUH 661	R30155	–	–	–	–	–	–	1.4971	–
R30155	X 12 CrCoNiMoWNb 21 20 20	–	–	R30155	X 12 CrCoNiMoWNb 21 20 20	Z 12 CKNDWNb 21.20.20	N-155	–	–	–	1.4974	–
–	X 40 CoCrNi 20 20	–	–	–	–	Z 42 CNKDWNb	–	–	–	–	1.4977	–
403	X 6 Cr 13	403 S 17	SUS 403	S 40300	X 6 Cr 13	Z 6 C 13	X 6 Cr 13	2301	–	A240	1.4000	ATI 410S™
439	X 6 CrTi 17	–	SUS 430 LX	S 43035	X 8 CrTi 1 7	Z 8 CT 1 7	X 6 CrTi 17	–	–	–	1.4510	430 Ti
–	X 22 CrMoV 1 -1 = ST12T	–	–	–	–	–	–	–	–	A437-76 Kalite B4B	–	ATI FV448™
409 Cb	–	–	–	–	–	–	–	–	–	–	–	ATI 409Cb™
436 S	–	–	–	–	–	–	–	–	–	–	–	ATI 436S™
439 HP	–	–	–	S43035	–	–	–	–	–	–	–	ATI 439 HP™
441 HP	–	–	–	–	–	–	–	–	–	–	–	ATI 441 HP™
–	–	–	–	S44735	–	–	–	–	–	A240	–	AL 29-4C®
–	–	–	–	–	–	–	–	–	–	B625	–	ATI E-BRITE®
403Cb	–	–	–	–	–	–	–	–	–	–	–	T656
420 Biçimi değiştirilmiş	–	–	–	–	–	–	–	–	–	–	–	Stavax ESR
–	–	–	–	–	–	–	–	–	–	–	–	420HC
–	–	–	–	–	–	–	–	–	–	–	–	CPM 154
–	–	–	–	–	–	–	–	–	–	–	–	CPM® S30V®
–	–	–	–	–	–	–	–	–	–	–	–	CPM® S35VN®
420 V	–	–	–	–	–	–	–	–	–	–	–	CPM® S90V®
–	–	–	–	–	–	–	–	–	–	–	–	M390
422	–	–	–	S42200	–	–	–	–	–	–	–	616

P6 İş parçası malzeme listesi • Çelik • P6

P6 Yüksek dayanımlı ferritik, martensitik ve PH Paslanmaz çelikler *Çekme mukavemeti RM (MPa)*: 900–1350* *Sertlik (HB): 350–450 (HRC): 35–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	17-7 PH	301 S 81	SUS 631	S17700	X 7 CrNiAl 17-7	X7CrNiAl17-7;Z9CNA17-07	X 7 CrNiAl 17-7	2388	–	A693	1.4564	ATI 17-7™
–	GX 22 CrNi 17	ANC 2	–	J91803	–	Z 20 CN 17,2 M	–	–	–	CB30	1.4059	–
–	GX 30 CrSi 6	–	–	–	–	–	–	–	–	–	1.4710	–
–	GX 4 CrNi 13 4	–	–	–	GX 4 CrNi 13-4	GX 4 CrNi 13-4	GX 4 CrNi 13-4	–	–	–	1.4317	–
–	GX 40 CrSi 17	–	–	–	–	–	GX 35 Cr 17	–	–	–	1.4740	–
–	GX 40 CrSi 24	–	SCH 1	–	–	–	GX 35 Cr 13	–	–	–	1.4745	–
–	GX 40 CrSi 28	452 C 11	SCH 2	J92605	–	–	GX 35 Cr 28	–	–	CC50	1.4776	–
–	X 105 CrCoMo 18 2	–	–	–	–	–	–	–	–	–	1.4528	N690
440 C	X 105CrMo 17	–	SUS 440C	S44004	X 105 CrMo 17	Z 100 CD 17	X 105 CrMo 17	–	–	–	1.4125	ATI 440C™
–	X 110 CrMoV 15	–	SUS 430 LX	–	–	Z 4 CN b 17	X 6 CrNb 17	–	–	–	1.4111	–
5718,9	X 12 CrNiMo 12	S.151	–	S64152	–	Z12CNDV12	–	–	–	–	1.4939	ATI Jethete™ M152
–	X 12 CrNiMoV 12 3	–	–	–	X 12 CrNiMoV 12-3	X 12 CrNiMoV 12-3	–	–	–	–	1.4938	T522
–	X 15 TN	–	–	–	420S25	Z40CDV16-02	X40CrMoVN16-2	–	–	F899	1.4123	X 15 TN
15-5 PH	X 15 U 5 W	–	–	S15500	–	Z6CNU15.05	–	–	–	A564/ A693/A705	1.4545	ATI 15-5™
–	X 19 CrMoNbVN 11 1	–	–	–	–	Z 21 CDNbV 11	–	–	–	–	1.4913	Jethete X19
431	X 19 CrNi 17 2	431 S 29	SUS 431	S 43100	X 19 CrNi 17 2	Z 15 CN 16.02	X 16 CrNi 16	2321	–	–	1.4057	431 (HT)
–	X 20 CrMo 17 1	–	–	–	–	–	–	–	–	–	1.4115	B17MoFe
420F Mod	X 22 CrMoNiS 13 1	–	–	–	–	–	–	–	–	–	1.4121	Bioline 4C27A
–	X 22 CrMoV 12 1	762	–	–	X 22 CrMoV 12-1	Z 21 CDV 12	X 22 CrMoV 12 1	–	–	–	1.4923	Jethete X20
420	X 29 CrS 13	416 S 37	SUS 416	–	X 29 CrS 13	Z29CF13	X 29 CrS 13	–	–	–	1.4029	–
–	X 3 CrNiCuTi 12 9	–	–	S45500	–	–	X 6 CrNiNb 18 11	–	–	–	1.4543	ATI 455™
13-8 PH	X 3 CrNiMoAl 13 8 2	–	–	S13800	–	Z4 CNDAT 13 09	–	–	–	–	1.4534	ATI 13-8Mo™
420 F	X 30 Cr 13	420 S 45	SUS420J2	S42020	X 30 Cr 13	Z 30 C 13	X 30 Cr 13	2304	–	CA40	1.4028	–
–	X 30CrMoN 15 1	–	–	–	420S45	Z33C13	–	2304	–	–	1.4108	N360
–	X 35 CrMo 17	–	–	–	X 39 CrMo 17 1	X39CrMo17-1	X 35 CrMo 17	–	–	–	1.4122	–
–	X 4 CrNiCuNb 16 4	–	–	J92200	–	Z 4 CNUNb 16.4 M	–	–	–	–	1.4540	–
415 M	X 4 CrNiMo 16 5 1	–	–	–	X 4 CrNiMo 16 5 1	Z 6 CND 16.05.01	–	2387	–	–	1.4418	APX4
–	X 40 CrNi 25 21	310 S 98	SCH 13	–	–	–	–	–	–	–	1.4846	–
–	X 40 CrSiMo 10 2	–	SUH3	–	X 40 CrSiMo 10-2	Z40CSD10	–	–	–	–	1.4731	–
420	X 45 Cr 13	(420 S45)	–	–	X 45 Cr 13	Z 40 C 14	X 40 Cr 14	–	–	–	1.4034	–
–	X 45 CrMoV 15	–	–	–	X 50 CrMoV 15	Z 50 CD 15	X 50 CrMo V 15	–	–	–	1.4116	UGI 4116N
HNV3	X 45 CrSi 9 3	–	SUH1	–	401S45	Z45CS9	X45CrSi8	–	HNV3	–	1.4718	–
HNV 2	X 45 SiCr 4	–	–	S64006	–	–	–	–	–	–	1.4704	–
CA 6-NM	X 5 CrNi 134	425 C 11	SCS 5	J91540	X 3 CrNiMo 13 4	Z 4 CDN 13.4	X 6 CrNi 13 04	2385	–	–	1.4313	–
630	X 5 CrNiCuNb 16 4	–	SUS 630	–	X 5 CrNiCuNb 16-4	Z6CNU17.04	–	–	–	CB7Cu	1.4542	UGIMA® 4542
17-4 PH	X 5 CrNiCuNb 17 4 4	–	SUS 630	S17400	X 5 CrNiCuNb 16-4	X5CrNiCuNb16.4	–	–	–	A693	1.4548	–
–	X 5 CrNiMoCuNb 14 5	–	–	–	X 5 CrNiMoCuNb 14-5	X 5 CrNiMoCuNb 14-5	X 5 CrNiMoCuNb 14-5	–	–	–	1.4594	–
–	X 50 CoCrNi 20 20	–	–	–	–	–	–	–	–	–	1.4978	–
EV8	X 53 CrMnNiN 2 9	349 S 54	SUH35/SUH36	S63008	349S54	Z52CMN21.09	X53CrMnNiN21-9	–	EV8	–	1.4871	–
–	X 55 CrMo 14	–	–	–	–	Z 50 CD 13	–	–	–	–	1.4110	–
–	X 60 CrMnMoVNbN 21 10	–	–	–	–	Z 60 CMDVNb 21-10 Az	–	–	–	–	1.4785	–
440 A	X 65 CrMo 14	–	SUS 440A	S44002	X 70 CrMo 15	Z 70 CD 14	–	–	–	–	1.4109	ATI 440A™
–	X 7 CrNiAl 17 7	301 S 81	SUS 631	S17700	X 7 CrNiAl 17-7	X7CrNiAl17-7;Z9CNA17-07	X 7 CrNiAl 17-7	2388	–	A693	1.4568	–
632	X 7 CrNiMoAl 15 7	–	–	S15700	–	–	–	–	–	–	1.4574	PH 15-7 Mo®
–	X 8 CrCoNiMo 10 6	Z 9 CKD 11	–	–	S152	Z10CKD10	–	–	–	–	1.4911	ATI FV535™
15-7 PH	X 8 CrNiMoAl 15 7 2	–	–	S15700	X 8 CrNiMoAl 15-7-2	Z8CNDA15.07	X 8 CrNiMoAl 15-7-2	–	–	A693	1.4532	ATI 15-7™
HNV 6	X 80 CrNiSi 20	443 S 65	SUH 4	S65006	X 80 CrNiSi 20	Z 80 CSN 20.02	X 80 CrSiNi 20	–	–	–	1.4747	–
–	X 85 CrMoV 18 2	–	–	–	X 85 CrMoV 18 2	Z 85 CDMV 18.02	X 85 CrMoV 19 3	–	–	–	1.4748	–
440 B	X 90 CrMoV 18	409 S 1 9	SUS 440 B	S44003	X 90 CrMoV 18	Z 3 CT 1 2	X 6 Cr Ti 1 2	–	–	–	1.4112	–
–	X45CrNiW18-9	331 S 40	SUH31	–	X 45 CrNiW 18 9	Z35CNWS14.14	X45CrNiW18-9	–	–	–	1.4873	–

NOT: Etiket için, bkz. sayfa Y217.

M1 İş parçası malzeme listesi • Paslanmaz çelik • M1

M1 Ostentik paslanmaz çelik *Çekme mukavemeti RM (MPa)*: <600* *Sertlik (HB): 130–200*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
CF-8	X 6 CrNi 18 9	304 C 15	SCS 13	–	X 2 CrNiN 18 7	Z 6 CN 18,10 M	G X 5 CrNi 19-10	2333	–	CF8	1.4308	CF-8
–	X 2 NiCr 18 16	–	–	–	–	Z 3 CDT 18-02	–	–	–	–	1.4321	–
–	X 1 CrNi 25 21	–	–	–	X 1 CrNi 25 21	X1CrNi25-21	X 1 CrNi 25-21	–	–	–	1.4335	Uranus 65
610	X1CrNiSi 18-15-4	–	–	S30600	X 1 CrNiSi 18-15-4	Z1 CNS 17.5	X 1 CrNiSi 18-15-4	–	–	A240-97A	1.4361	ATI 610™
CF-8M	X 6 CrNiMo 18 10	316 C 16	SCS 14	J92900	GX 5 CrNiMo 19-11-2	GX5CrNiMo 19-11-2	G X 5 CrNiMo 19-11-2	2343	–	–	1.4408	–
–	GX 2 CrNiMo 19 11 2	–	–	–	GX 2 CrNiMo 19-11-2	GX 2 CrNiMo 19-11-2	GX 2 CrNiMo 19-11-2	–	–	–	1.4409	–
–	ERO 4412 AHMo	–	–	J92900	GX 5 CrNiMo19-11-3	GX 5 CrNiMo 19-11-3	–	–	–	A743CF8M	1.4412	–
–	ERO 4416 AHCRMo	–	–	–	GX 2 NiCrMoN 25-20-5	GX2NiCrMoN 25-20-5	–	–	–	–	1.4416	–
–	GX 6 CrNiMo 18 12	317 C 12	–	–	–	–	–	–	–	–	1.4437	–
–	X 2 CrNiMo 18 16 5	–	–	S31780	–	–	–	–	–	–	1.4440	–
–	GX 2 CrNiMoN 17 1 3 4	–	–	–	GX 2 CrNiMoN 17 1 3 4	–	–	–	–	–	1.4446	–
–	GX 6 CrNiMo 17 13	317 C 16	–	J93000	–	–	–	–	–	CG8M	1.4448	–
–	GX 2 NiCrMo 28 20 2	–	–	–	GX 2 NiCrMo 28-20-2	GX 2 NiCrMo 28-20-2	GX 2 NiCrMo 28-20-2	–	–	–	1.4458	–
–	GX 4 NiCrCuMo 30 20 4	–	–	–	GX 4 NiCrCuMo 30-20-4	GX 4 NiCrCuMo 30-20-4	–	–	–	–	1.4527	–
–	GX 5 CrNiNb 18 9	347 C 17	SCS 21	J92710	GX 5 CrNiNb 19-11	Z 4 CNNb 19.10 M	G-X 5 CrNiNb 19-11	–	–	–	1.4552	–
–	GX 2 CrNiMoCuN 20 18 6	–	–	–	GX 2 CrNiMoCuN 20-18-6	GX 2 CrNiMoCuN 20-18-6	–	–	–	–	1.4557	–
–	X 3 CrNiCuMo 17 11 3 2	–	–	–	X 3 CrNiCuMo17 11 3 2	X3CrNiCuMo 17-11-3-2	X 3 CrNiCuMo 17-11-3-2	–	–	–	1.4578	–
–	GX 5 CrNiMoNb 18 10	318 C 17	SCS 22	–	GX 5 CrNiMoNb 19-11-2	Z 4 CNDNb 18.12 M	GX 6 CRNOMONB 20 11	–	–	–	1.4581	–
–	GX 2 NiCrMoCu 25 2 0 5	–	–	–	GX 2 NiCrMoCu 25-20-5	GX 2 NiCrMoCu 25-20-5	–	–	–	–	1.4584	–
–	GX 7 CrNiMoCuNb 18 18	–	–	J94651	–	–	–	–	–	–	1.4585	–
–	GX 2 NiCrMoCuN 29 25 5	–	–	–	GX 2 NiCrMoCuN 29-25-5	GX 2 NiCrMoCuN 29-25-5	–	–	–	–	1.4587	–
–	GX 2 NiCrMoCuN 25 20 6	–	–	–	GX 2 NiCrMoCuN 25-20-6	GX 2 NiCrMoCuN 25-20-6	–	–	–	–	1.4588	–
–	GX 25 CrNiSi 18 9	302 C 35	–	J92602	–	–	G X 16 CrNi 20 10	–	–	CF20	1.4825	–
–	GX 40 CrNiSi 22 9	–	SCH 12	J92603	–	–	–	–	–	–	1.4826	–
–	GX 50 CrNiNb 25 22	–	–	–	–	–	–	–	–	–	1.4836	–
–	GX 40 CrNiSi 25 12	309 C 30	SCS 17	J93503	–	–	GX 35 CrNi 25 12	–	–	CE30	1.4837	–
334	X 8 CrNiAlTi 20 20	–	–	S33400	–	–	–	–	–	–	1.4847	ATI 334™
–	GX 40 NiCrSiNb 38 18	–	–	N08004	–	–	–	–	–	–	1.4849	–
–	GX 40 NiCrSiNb 35 25	–	–	–	–	–	–	–	–	–	1.4852	–
–	GX 40 NiCrSi 35 25	–	–	J95705	–	–	GX 50 NiCr 35 25	–	–	–	1.4857	–
105 MA	BGH 4892	–	–	–	–	–	–	–	–	–	1.4892	–
–	X 3 CrNi 18 11	–	–	–	–	–	X 2 CrNiN 18 11	–	–	–	1.4949	–
–	X 2 CrNiMo 19 12	316 S 93	–	S31683	x 2 CrNiMo 19 13 03 KE	Z 2 CND 19-12-03	–	–	–	–	1.4430	–
–	GX 7 NiCrMoCuNb 25 20	–	SCS 23	J95150	10.204.3.1B	Z 3 NCDU 25.20 M	GX 5 NiCrCuMo 29 21	–	–	–	1.4500	–
–	X 3 CrNiCu 19 9 2	–	–	–	S 124 M	PHYHQ 4560	304 RH1	–	–	–	1.4560	ACX276
–	–	–	–	S63198	–	–	–	–	19-9 DL	–	–	19-9 DL
–	X 2 CrNiMoN 17 13 3	–	–	–	–	Z 2 CND 17.13	X 2 CrNiMoN 17 13 3	–	–	–	–	–
332	–	–	–	N08800	–	–	–	–	–	–	–	ATI 332™
–	–	–	–	N08367	–	–	–	–	–	–	–	AL-6XN®
611	–	–	–	S30601	–	–	–	–	–	A240-97A	–	ATI 611™

M2 İş parçası malzeme listesi • Paslanmaz çelik • M2

M2 Yüksek dayanımlı ostenitik paslanmaz çelikler ve Döküm paslanmaz çelikler *Çekme mukavemeti RM (MPa)*: 600–800*
Sertlik (HB): 150–230 (HRC): <25

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
304 H	X 5 CrNi 18 10	304 S 15	SUS 304	S30409	X 6 CrNi 18 10 KD	Z 6 CN 18.09	X 5 CrNi 18 10	2332	–	–	1.4301	–
–	X 5 CrNi 19 9	308 S 96	–	S30888	X 6CrNi 20 10 KE	–	–	–	–	–	1.4302	–
305	X 4 CrNi 18 12	305 S 19	SUS 305	S30500	X 4 CrNi18 12 KD	Z 5 CN 18.12	X 4 CrNi 19 10	–	–	–	1.4303	–
303	X 10 CrNiS 18 9	303 S 21	SUS 303	S30300	X 10 CrNiS 18 9	Z 10 CNF 18.09	X 10 CrNiS 18 09	2346	–	–	1.4305	ATI 303™
304 L	X 2 CrNi 19 11	304 C 12	SUS 304L	S30403	X 3 CrNi18 10 KD	Z 2 CN 18.09	GX 2 CrNi 19 10	2352	–	CF3	1.4306	ATI 304L™
304 L	X 2 CrNi 18 9	304 S 11	SUS 304L	–	X 2 CrNi 18 9	CLC18.9.L	X 2 CrNi 18-9	–	–	–	1.4307	–
–	GX 2 CrNi 19 11	304 C 12	–	J92500	GX2CrNi19-11	GX2CrNi19-11	GX2CrNi19-11	2352	–	CF3	1.4309	–
304 LN	X 2 CrNiN 18 10	304 S 62	SUS 304 LN	S30453	X 2 CrNiN 18 10	Z 8 CN 18.12	X 8 CrNi 19 10	2371	–	–	1.4311	–
305	GX 10 CrNi 18 8	302 C 25	SCS 12	–	–	Z 10 CN 18,9 M	–	–	–	–	1.4312	ATI 305™
308 L	X 2 CrNi 19 9	308 S 92	SUS Y 308L	S30883	X 2 CrNi 20 10 KE	Z 2 CN 20.10	–	–	–	–	1.4316	–
–	X 2 CrNiN 18 7	–	–	–	X 2 CrNiN 18-7	18-7L	18-7L	–	–	–	1.4318	–
302	X 10 CrNi 18 9	302 S 26	SUS 302	S20200	302S31	Z10CN18-09	X 10 CrNi 18 09	2330	–	–	1.4319	ATI 302™
301	X 10 CrNi 18 9	302 S 26	–	J92501	X 10 CrNi 18 9	–	–	–	–	–	1.4324	–
–	X 10 CrNi 30 9	312 S 94	–	–	X 12 CrNi 30 09 KE	Z 10 CN 31-10	–	–	–	–	1.4337	–
–	X 3 CrNi 13 4	–	–	S41086	X 3 CrNi 14 04 KE	–	–	–	–	–	1.4351	410NiMo
202	X 3CrMnNiN 18 8 7	–	–	–	284S16	Z8CMN18-08-05	–	–	–	–	1.4371	–
201	X 12 CrMnNiN 17 7 5	284 S 16	SUS 201	–	X 12 CrMnNiN 17-7-5	X 12 CrMnNiN17-7-5	X 12 CrMnNiN 17-7-5	–	–	–	1.4372	ACX060
316	X 5 CrNiMo 17 12 2	316 S 16	SUS 316	S31600	X6 CrNiMo 17 12 2 KD	Z 6 CND 17.11	X 5 CrNiMo 17 12	2347	–	–	1.4401	ATI 316™
316L	X 2 CrNiMo 17 13 2	316 S 12	SUS 316 L	S31603	GX 3 CrNiMo 17 12 2 KD	Z 3 CND 19.10 M	GX 2 CrNiMo 19 11	2348	–	–	1.4404	ATI 316L™
316 LN	X 2 CrNiMoN 17 12 2	316 S 61	SUS 316 LN	S31653	X 3 CrNiMoN 17 12 2	Z 2 CND 17.12 Az	X 2 CrNiMoN 17 12	2353	–	–	1.4406	ATI 316LN™
–	X 5 CrNiMo 13 4	–	–	J91550	–	Z 6 CND 16.05.01	–	–	–	–	1.4407	–
–	X12CrNiMoS18-11	–	–	–	–	Z3CNDF17-13	–	–	–	–	1.4427	Chronifer® Özel KL
316L	X 2 CrNiMo 17 12 3	316 S 13	SUS 316L	–	X 2 CrNiMo 17 12 2	Z 3 CND 17-13-30	X 2 CrNiMo 17-12-3	2348/2353/2354	–	–	1.4432	–
–	X 2 CrNiMoN 18 12 4	–	–	–	317 LN	CLC18.12.4.LN	X2CrNiMoN1812-4	–	–	–	1.4434	–
316 L	X 2 CrNiMo 18 14 3	316 S 11	SCS 16	S31603	X 2 CrNiMo 18 16	Z 2 CND 17.13	X 2 CrNiMo 17 13	2353	–	–	1.4435	–
316	X 5 CrNiMo 17 1 3 3	316 S 16	SUS 316	S31600	X6 CrNiMo 18 13 3 KD	Z 6 CND 17.12	X 5 CrNiMo 17 13	2343	–	–	1.4436	–
317 L	X 2 CrNiMo 18 16 4	317 S 12	SUS 317 L	S31703	X 3 CrNiMo 18 16 4	Z 2 CND 19.15	X 2 CrNiMo 18 15	2367	–	–	1.4438	ATI 317L™
–	X 2 CrNiMoN 17 13 5	–	–	–	X 3 CrNiMo 17 13 5	Z 3 CND 18.14-05 AZ	–	–	–	–	1.4439	–
–	X 2 CrNiMo 18 15 4	–	–	S31675	–	X 3 CrNiMoN 19-14	–	–	–	–	1.4442	–
317	X 5 CrNiMo 17 13	317 S 16	SUS 317	S31700	–	–	X 5 CrNiMo 18 15	–	–	–	1.4449	AL 317L+E55
–	X 5 CrNiCuNb 16 4	–	–	–	–	Z7CNU16.04	–	–	–	–	1.4452	–
–	–	–	–	S21904	–	–	–	–	–	A666	1.4454	ATI 219
–	X 2 CrNiMnMoN 20 16	–	–	–	X 2 CrNiMnMoN 20 15 08 KE	–	–	–	–	–	1.4455	–
–	X 1 CrNiMoN 25 2 5 2	–	–	S31050	–	–	–	–	–	–	1.4465	2RE69

(devamı)

M2 İş parçası malzeme listesi • Paslanmaz çelik • M2 *(devamı)*

M2 Yüksek dayanımlı ostenitik paslanmaz çelikler ve Döküm paslanmaz çelikler ***Çekme mukavemeti RM (MPa)*: 600–800***
Sertlik (HB): 150–230 (HRC): <25

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	X 1 CrNiMoN 25 22 2	–	–	–	725 LN	DMV 25.22.2	X 1 CrNiMoN 25-22-2	–	–	–	1.4466	–
–	X 1 NiCrMoCuN 25 20 6	–	–	–	–	–	–	–	–	–	1.4529	Uranus B26 6Mo
–	GX 2 NiCrMoCuN 25 20	–	–	J94650	GX 2 CrNiMoCuN 25-20-6	–	–	–	–	–	1.4536	–
–	X 1 CrNiMoCuN 25 25 5	–	–	–	X 1 CrNiMoCuN 25-25-5	X 1 CrNiMoCuN 25-25-5	X 1 CrNiMoCuN 25-25-5	–	–	–	1.4537	–
321	X 6 CrNiTi 18 10	321 S 12	SUS 321	S32100	X 6 CrNiTi 18 10	Z 6 CNT 18.10	X 6 CrNiTi 18 11	2337	–	–	1.4541	ATI 321™
321	A 700	304 S 31	–	J92630	–	Z 10 CNT 18 11	X 6 CrNiTi 18 11	–	–	–	1.4544	–
–	X 1 CrNiMoCuN 20 18 7	X 1 CrNiMoCuN 20 18 7	–	S31254	X 1 CrNiMoCuN 20-18-7	X 1 CrNiMoCuN 20-18-7	X 1 CrNiMoCuN 20-18-7	–	–	–	1.4547	Uranus B25 6Mo
–	X 2 NiCrAlTi 32 20	–	NCF 800 TB	–	–	–	–	–	–	–	1.4558	–
–	X 1 NiCrMoCuN 31 27 4	–	–	–	X 1 NiCrMoCu 31 27 4	X 1 NiCrMoCuN 31 -27-4	X 1 NiCrMoCuN 31 -27-4	2584	–	–	1.4563	–
–	X 3 CrNiCu 18 9 4	394 S 17	SUS XM7	–	X3CrNiCu18-9-4	304CU	304K	–	–	–	1.4567	–
316 Ti	X 6 CrNiMoTi 17 12 2	320 S 31	SUS 316Ti	–	X 6 CrNiMoTi 17 12 2	Z 6 CNDT 17.12	X 6 CrNiMoTi 17 12	2350	–	–	1.4571	ATI 316Ti™
–	GX 5 CrNiMoNb 23 9	–	–	–	–	–	–	–	–	–	1.4572	–
316 Ti	X 10 CrNiMoTi 18 12	320 S 33	SUS 316Ti	S31635	–	–	X 6 CrNiMoTi 17 13	–	–	–	1.4573	–
318	X 10 CrNiMoNb 18 12	–	–	–	–	–	X 6 CrNiMoNb 17 13	–	–	–	1.4583	–
–	X 2 CrNiCu 19 10	–	–	–	X 2 CrNiCu 19-10	TX 304L	–	–	–	–	1.4650	–
–	X1CrNiMoCuN24-22-8	–	–	S32654	–	–	–	–	–	–	1.4652	654 SMO®
–	153 MA	–	–	S30415	X 6 CrNiSiNCe 19 10	–	–	–	–	–	1.4818	153 MA™
–	X 20 CrNiSi 25 4	–	–	S44635	X 15 CrNiSi 25 4	Z 20 CNS 25.04	X 20 CrNiSi 25 4	–	–	–	1.4821	–
309	X 15 CrNiSi 20 12	309 S 24	SUH 309	S30900	X 15 CrNiSi 20 12	Z 15 CNS 20.12	X 16 CrNiSi 25,20	–	–	–	1.4828	ATI 309™
309 S	X 7 CrNi 23 14	309 S 24	SUS 309 S	J93400	X 12 CrNi 23 13	Z 15 CN 24.13	X 6 CrNi 23 14	–	–	–	1.4833	–
–	353 MA	–	–	S35315	X 6 NiCrSiNCe 35-25	–	–	–	–	–	1.4854	353 MA®
–	X 8 NiCrSi 38 18	NA 17	–	N08330	–	Z 12 NCS 37.18	–	–	–	–	1.4862	–
–	X 33 CrNiMnN 23 8	–	–	–	X 33 CrNiMnN 23-8	X 33 CrNiMnN 23-8	–	–	–	–	1.4866	–
EV 12	X 55 CrMnNiN 20 8	–	–	S63012	X 55 CrMnNiN 20-8	Z 55 CMN 20.08 Az	–	–	–	–	1.4875	–
321	X 12 CrNiTi 18 9	321 S 20	SUS 321	S32100	X 10 CrNiTi 18 10	Z 6 CNT 18.12	X 6 CrNiTi 18,11	2337	–	–	1.4878	ACX315
EV 11	X 70 CrMnNiN 21 6	–	–	S63011	–	–	X 70 CrMnNiN 21 6	–	–	–	1.4881	–
–	X 50 CrMnNiNbN 21 9	–	–	–	X 50 CrMnNiNbN 21-9	Z 50 CMNNb 21.09	–	–	–	–	1.4882	–
–	X 7 CrNiNb 18 10	–	SUS347H	S34709	X7CrNiNb18-10	X7CrNiNb18-10	–	–	–	–	1.4912	–
316 H	X 6 CrNiMo 17 13	316 S 51	–	S31609	X 6 CrNiMo 17 12 2	Z 6 CND 17-13 B	–	–	–	–	1.4919	–
321 H	X 8 CrNiTi 18 10	–	–	–	X 6 CrNiTiB 18-10	Z 6 CNT 18-10 B	X 6 CrNiTiB 11	–	–	–	1.4941	–
A660	X 4 NiCrTi 25 15	HR251	SUH 660	S66286	–	Z 6 NCTDV 25.15 B	–	–	–	–	1.4943	Discaloy
–	X 6 CrNiWNb 16 16	–	–	–	–	–	–	–	–	–	1.4945	–
–	X 6 CrNi 18 11	304 S 51	–	S30480	X 6 CrNi 18 10	Z 6 CN 18-09	X 5 CrNi 18 10 KW	2333	–	–	1.4948	–
–	X 6 CrNi 25 20	–	–	–	310 H	–	–	–	–	–	1.4951	–
–	X 8 CrNiNb 16 13	347 S 51	–	–	–	–	–	–	–	–	1.4961	–
–	Esshete12 50	–	–	S21500	X 10 CrNiMoMnNbVB 15-10-1	X 10 CrNiMoMnNbVB 15-10-1	–	–	–	A213	1.4982	Esshete 1250
–	X 8 CrNiMoBNb 16 16	–	–	–	X 7 CrNiMoBNb 16-16	–	–	–	–	–	1.4986	–
301	X 12 CrNi 17 7	301 S 21	SUS 301	S30100	X 12 CrNi 17 7	Z 12 CN 17.07	X 12 CrNi 17 07	2331	–	–	1.4310	ATI 301™
–	GX 40 CrNi 27 4	–	–	J92615	–	–	GX 35 CrNi 28 05	–	–	–	1.4340	–
304	X 5 CrNi 18 9	304 S 31	SUS 304	S30400	1	Z6CN18.09	X5CrNi1810	2332/2333	–	A276	1.4350	ATI 304™
–	X 15 CrNiMn 18 8	307 S 98	–	–	X 15 CrNiMn 18 08 KE	Z 8 CNM 19-09-07	–	–	–	–	1.4370	–
S32750	GX 10 CrNiMo 18 9	–	SCS 14 A	S32750	X 2 CrNiMoN 25-7-4	Z 5 CND 20.10 M	X 2 CrNiMoN 25-7-4	–	–	–	1.4410	–
–	X 5 CrNiMo 18 11	315 S 16	–	–	–	–	–	2340	–	–	1.4420	–
347	X 6 CrNiNb 18 10	347 S 17	SUS 347	S34700	X 6 CrNiNb 18 10	Z 6 CNNb 18.10	X 6 CrNiNb 18 11	2338	–	–	1.4550	ATI 347™
316 Cb	X 6 CrNiMoNb 17 12 2	318 S 17	–	–	X 6 CrNiMoNb 17 12 2	Z 6 CNDNb 17.12	X 6 CrNiMoNb 17 12	–	–	–	1.4580	–
–	X 3 CrNiMoN 17 13	–	–	–	X 3 CrNiMoN 17-13-3	–	X 2 CrNiMoN 17 12	–	–	–	1.4910	–
–	X 6 CrNi 23 13	–	–	–	309 H	–	–	–	–	–	1.4950	–
A286	X 6 NiCrTiMoVB 25-15-2	286 S 31	–	S66286	X 6 NiCrTiMoVB 21-15-2	–	–	–	–	–	1.4980	Incoloy A 286
XM-19	–	–	–	S20910	–	–	–	–	–	F1314	–	ATI XM-19™
303 plus X	–	–	–	S30310	–	–	–	–	–	XM-5	–	303 plus X
–	X 2 CrNi 18 13 3	–	–	–	–	–	–	–	–	–	–	Staybrite® 4435NCu
218	–	–	–	S21800	–	–	–	–	–	–	–	Nitronic 60
201LN	–	–	–	S20153	–	–	–	–	–	–	–	ATI 201LN™-MIL
–	X 2 CrNiMoN 17 13 3	–	–	–	–	Z 2 CND 17.13	X 2 CrNiMoN 17 13 3	–	–	–	–	AL 316LXN
–	–	–	–	S31675	–	–	–	–	–	F1586	–	ATI REX 734™
–	–	–	–	–	–	–	–	–	–	–	–	P558
–	X 1 NiCrMoCu 22 24 6	–	–	–	–	–	–	–	–	–	–	Uranus B66
–	–	–	–	–	–	–	–	–	–	–	–	ATI Datalloy 2®
–	–	–	–	–	–	–	–	–	–	–	–	ATI Staballoy® AG17®
–	–	–	–	–	–	–	–	–	–	–	–	P530
–	X 1 NiCrMoCu 31 27 4	–	–	N08028	–	–	–	–	–	–	–	Uranus B28
–	–	–	–	–	–	–	–	–	–	–	–	P750
–	–	–	–	–	–	–	–	–	–	–	–	P750-I
–	X 4 CrNiMoN 21 9 4	–	–	–	–	–	–	–	–	F1586	–	M30NW
–	–	–	–	–	–	–	–	–	–	–	–	P550
–	–	–	–	–	–	–	–	–	–	–	–	P580
–	–	–	–	–	–	–	–	–	–	–	–	P650
–	–	–	–	–	–	–	–	–	–	–	–	ATI Datalloy HP™

NOT: Etiket için, bkz. sayfa Y217.

M3 İş parçası malzeme listesi • Paslanmaz çelik • M3

M3 Dupleks Paslanmaz Çelik *Çekme mukavemeti RM (MPa)*: <800* *Sertlik (HB): 135–275 (HRC): <30*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	GX 120 CrMo 29 2	–	–	–	–	–	–	–	–	F30M	1.4138	PK324
–	X 2 CrMnNiN 21 5 1	–	–	S32101	–	–	–	–	–	–	1.4162	LDX2101
–	GX 6 CrNiN 26 7	–	–	–	GX 6 CrNiN 26-7	–	–	–	–	–	1.4347	–
S32304	X 2 CrNiN 23 4	–	–	S32304	SAF 2304	35 N	X 2 CrNiN 23-4	2327	–	A240	1.4362	ATI 2304™
S31500	X 2 CrNiMoSi 19 5	–	–	S39215	GX 2 CrNiMoN 25-7-3	GX 2 CrNiMoN 25-7-3	–	2376	–	–	1.4417	–
S31803	X 2 CrNiMoN 22 5 3	318 S 13	SUS 329J 3L	S31803 ve S32205	X 2 CrNiMoN 22 5 3	Z 3 CND 22.05 AZ	X 2 CrNiMoN 22-5-3	2377	F51	2205	1.4462	ATI 2205™
–	GX 6 CrNiMo 24 8 2	–	–	–	–	–	–	–	–	–	1.4463	–
–	GX 2 CrNiMoN 25 6 3	–	–	–	GX 2 CrNiMoN 25-6-3	GX 2 CrNiMoN 25-6-3	–	–	–	–	1.4468	–
–	GX 2 CrNiMoN 26 7 4	–	–	J93404	GX 2 CrNiMoN 26-7-4	GX 2 CrNiMoN 26-7-4	GX 2 CrNiMoN 26-7-4	–	–	–	1.4469	–
–	X 2 CrNiMoCuWN 25 7 4	–	–	S32760	X 2 CrNiMoCuWN 25 7 4	X 2 CrNiMoCuWN 25-7-4	X 2 CrNiMoCuWN 25-7-4	–	–	F 55	1.4501	F55
2507	X 2 CrNiMoCuN 25 6 3	–	–	–	X 2 CrNiMoCuN 25-6-3	DMV25.7Cu	329SK	–	–	–	1.4507	Uranus 52N+
–	GX 2 CrNiMoCuWN 25 8 4	–	–	–	X 6 CrNiCu 18 10 4 KD	Z 4 CNUD 17-11-03 FF	–	–	–	–	1.4508	–
–	GX 2 CrNiMoCuN 25 6 3 3	–	–	–	GX 2 CrNiMoCuN 25-6-3-3	GX 2 CrNiMoCuN 25-6-3-3	GX 2 CrNiMoCuN 25-6-3-3	–	–	–	1.4517	–
–	X 4 CrNiMoNb 25 7	–	SCS 22	–	–	–	–	–	–	–	1.4582	PK343
–	BGH 4593	–	–	–	GX 3 CrNiMoCuN 24 6 2 3	–	–	–	–	–	1.4593	Noridur®
329	X 4 CrNiMo 27 5 2	–	SUS 329 J1	S32900	X 3 CrNiMo 27 5 2	X 2 CrNiMo 25-7-3	X 3 CrNiMo 27-5-2	2324	–	A240	1.4460	10RE51
–	GX 2 CrNiMoN 22 5 3	–	–	–	GX 2 CrNiMoN 22-5-3	GX 2 CrNiMoN 22-5-3	GX 2 CrNiMoN 22-5-3	–	–	–	1.4470	–
S32550	–	–	–	S32550	–	–	–	–	–	–	–	Ferralium® Alaşım 255
–	–	–	–	S32003	–	–	–	–	–	–	–	ATI 2003®
–	–	–	–	S80211	–	–	–	–	–	–	–	ATI 2102™
–	–	–	–	S32550	–	–	–	–	–	–	–	ATI 255™
–	–	–	–	S34565	–	–	–	–	–	–	–	ATI 4565™
–	X 2 CrNiMoN 25 6 3	–	–	–	–	–	–	–	–	–	–	Uranus 47N+
–	–	–	–	–	–	–	F60	–	–	32760	–	Zeron® 100

Dökme demir

K1 İş parçası malzeme listesi • Dökme demir • K1

K1 Gri dökme demir *Çekme mukavemeti RM (MPa)*: 125–500* *Sertlik (HB): 120–290 (HRC): <32*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	GG-150HB	–	–	–	GJL-HB 170	–	–	–	–	–	0.6012	–
A48-25 B	GG-15	150 Kalite	FC 150	–	GJL-150	FGL 150	G 15	0115-00	–	A 48 Sınıf 25	0.6015	–
–	GG-170HB	–	–	N06985	GJL-HB 205	–	–	–	–	–	0.6017	–
–	GG-190HB	–	–	N06022	GJL-HB 230	–	–	–	–	–	0.6022	–
A48-35 B	GG-25	260 Kalite	FC 250	–	GJL-250	FGL 250	G 25	0125-00	–	A 48 Sınıf 35	0.6025	–
–	GG-26	–	FC260	–	–	–	G 26	0126-00	–	–	0.6026	–
–	GG-220HB	–	–	W06027	GJL-HB 250	FGL 250	–	–	–	–	0.6027	–
–	GG-240HB	–	–	–	GJL-HB 275	–	–	–	–	–	0.6032	–
A48-50 B	GG-35	350 Kalite	FC 350	–	GJL-350	FGL 350	G 35	0135-00	–	A 48 Sınıf 50	0.6035	–
–	GG-260HB	–	–	–	GJL-HB 275	–	–	–	–	–	0.6037	–
A48-20 B	GG-10	100 Kalite	FC 100	–	GJL-100	FGL 100	G 10	0110-00	–	A 48 Sınıf 20	0.6010	–
A48-30 B	GG-20	220 Kalite	FC 200	W06020	GJL-200	FGL 200	G 20	0120-00	–	A 48 Sınıf 30	0.6020	–
A48-45 B	GG-30	300 Kalite	FC 300	–	GJL-300	FGL 300	G 30	0130-00	–	A 48 Sınıf 45	0.6030	–
A48-55 B	GG-40	400 Kalite	–	–	GJL-400	FGL 400	–	0140-00	–	A 48 Sınıf 55	0.6040	–
A48-40	–	–	–	–	–	–	–	–	–	A 48 Sınıf 40	–	–
A48-60	–	–	–	–	–	–	–	–	–	A 48 Sınıf 60	–	–
–	–	–	–	–	–	–	–	–	G1800	A 159 G1800	–	–
–	–	–	–	–	–	–	–	–	G3000	A 159 G3000	–	–
–	–	–	–	–	–	–	–	–	G10H18	A 159 G3000	–	–
–	–	–	–	–	–	–	–	–	G11H18	A 159 G3000	–	–
–	–	–	–	–	–	–	–	–	G3500	A 159 G3500	–	–
–	–	–	–	–	–	–	–	–	G11H20	A 159 G3500	–	–
–	–	–	–	–	–	–	–	–	G4000	A 159 G4000	–	–
–	–	–	–	–	–	–	–	–	G13H19	A 159 G4000	–	–
–	–	–	–	–	–	–	–	–	G12H21	A 159 G4000	–	–
–	–	–	–	–	–	–	–	–	G9H12	A 159 G1800	–	–
–	GG-26-Cr	–	–	–	–	–	–	–	–	–	–	–
–	GG-25-Cr	–	–	–	–	–	–	–	–	–	–	–

K2 İş parçası malzeme listesi • Dökme demir • K2

K2 Düşük ve orta dayanımlı düktil demirler (Küresel grafitli (GJS) demirler) ve sıkıştırılmış (yoğun) grafitli demirler (CGI)
Çekme mukavemeti RM (MPa): <600 Sertlik (HB): 130–260 (HRC): <28*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	GGL-NiMn137	L-NiMn 13 7	FCA NiMn 13 7	F43000	GJLA-XNiMn 13-7	L-NM 13 7	–	–	–	–	0.6652	–
A 436 Tip 1	GGL- NiCuCr1562	L-NiCuCr 15 6 2	FCA -NiCuCr 15 6 2	F41000	GJLA-XNiCuCr 15-6-2	L-NUC 15 6 2	–	–	–	–	0.6655	–
A 436 Tip 1b	GGL-NiCuCr1563	L-NiCuCr 15 6 3	FCA-NiCuCr 15 6 3	F41001	GJLA-XNiCuCr 15-6-3	L-NUC 15 6 3	–	–	–	–	0.6656	–
A 436 Tip 2b	GGL-NiCr203	L-NiCr 20 3	FCA-NiCr 20 3	F41003	GJLA-XNiCr 20-3	L-NC 20 3	–	–	–	–	0.6661	–
–	GGL-NiSiCr2053	L-NiSiCr 20 5 3	FCA-NiSiCr 20 5 3	–	GJLA-XNiSiCr 20-5-3	L-NSC 20 5 3	–	–	–	–	0.6667	–
A 436 Tip 3	GGL- NiCr303	L-NiCr 30 3	FCA-NiCr 30 3	F41004	GJLA-XNiCr 30-3	L-NC 30 3	–	–	–	–	0.6676	–
–	GGG-35.3	–	–	–	GJS-350-22	–	–	0717-15	–	–	0.7033	–
–	GGG-40.3	SNG 370/17	FCD 370	–	GJS-400-18	FGS 370-17	GSO 42/15	0717-15	–	–	0.7043	–
–	GGG-45	–	FCD 450	–	–	–	–	–	–	–	0.7045	–
–	–	–	–	–	–	FGS450.10	–	–	–	–	0.7049	–
–	GGG-65	–	–	–	–	–	–	–	–	–	0.7065	–
–	GGG-NiMn137	S-NiMn 13 7	FCDA-NiMn 13 7	–	GJSA-XNiMn 13-7	S-Mn 13 7	–	0772-00	–	–	0.7652	–
–	GGG-NiCrNb202	S2W	FCDA-NiCrNb 20 2	–	GJSA-XNiCrNb 20-2	–	–	–	–	–	0.7659	–
A 439 Tip D-2B	GGG-NiCr203	S-NiCr 20 3	FCDA-NiCr 20 3	F43001	GJSA-XNiCr 20-3	–	–	–	–	–	0.7661	–
–	GGG-NiSiCr2052	S-NiSiCr 20 5 2	FCDA-NiSiCr 20 5 2	–	GJSA-XNiSiCr 20-5-2	S-NSC 20 5 2	–	–	–	–	0.7665	–
A 571 Tip D-2M	GGG-NiMn234	S-NiMn 23 4	FCDA-NiMn 23 4	–	GJSA-XNiMn 23-4	S-NM 23 4	–	–	–	–	0.7673	–
A 439 Tip D-3	GGG-NiCr303	S-NiCr 30 3	FCDA-NiCr 30 3	F43003	GJSA-XNiCr 30-3	S-NC 30 3	–	–	–	–	0.7676	–
A 439 Tip D-3A	GGG-NiCr301	S-NiCr 30 1	FCDA-NiCr 30 1	F43004	GJSA-XNiCr 30-1	S-NC 30 1	–	–	–	–	0.7677	–
–	GGG-NiSiCr3055	–	FCDA-NiSiCr 30 5 5	–	GJSA-XNiSiCr 30-5-5	–	–	–	–	–	0.7679	–
A 439 Tip D-5	GGG-Ni35	S-Ni 35	FCDA-Ni 35	F43006	GJSA-XNi 35	S-N 35	–	–	–	–	0.7683	–
A 439 Tip D-5A	GGG-NiCr353	S-NiCr 35 3	FCDA-NiCr 35 3	F43007	GJSA-XNiCr 35-3	S-NC 35 3	–	–	–	–	0.7685	–
–	GGG-NiSiCr3552	–	FCDA-NiSiCr 35 5 2	–	GJSA-XNiSiCr 35-5-2	FGS Ni35 Si 5 Cr2	–	–	–	–	0.7688	–
–	GTW-35-04	W 35-04	FCMW 330 sınıf 1	–	GJMW-35-0-4	MB 35-7	W 35-04	–	–	–	0.8035	–
–	GTW-S-38-1 2	W 38-12	–	–	GJMW-360-12	MB 300-12	–	–	–	–	0.8038	–
–	GTW-45-07	W 45-07	FCMWP 440 sınıf 3	–	GJMW-450-7	MB 450-7	GMB 45	–	–	–	0.8045	–
–	GTW-55	–	–	–	–	–	GMB 55	–	–	–	0.8055	–
–	GTW-65	–	–	–	–	–	GMB 65	–	–	–	0.8065	–
32510	GTS-35-10	B 340/12	FCMP 330	–	GJMB-350-10	MN 350-10	–	815	–	–	0.8135	–
40010	GTS-45-06	P 440/7	FCMP 440	–	GJMB-450-6	MN 450 - 6	P 45-06	852	–	–	0.8145	–
50005	GTS-55-04	P 510/4	FCMP 490	–	GJMB-550-4	MN 550-4	P 55-04	854	–	–	0.8155	–
70003	GTS-65-02	P 570/3	FCMP 540	–	GJMB-650-2	MN 650-3	P 65-02	0858-00, 0856-00	–	–	0.8165	–
90001	GTS-70-02	P 690/2	FCMP 690	–	GJMB-700-2	MN 700-2	P 70-02	0862-03; 0864-03	–	–	0.8170	–
–	GGV-30	–	–	–	GJV-300	–	–	–	–	–	0.9991	–
A 436 Tip 2	GGL-NiCr202	L-NiCr 20 2	FCA-NiCr 20 2	F41002	GJLA-XNiCr 20-2	L-NC 20 2	–	0523-00	–	–	0.6660	–
A 436 Tip 4	GGL- NiSiCr3055	L-NiSiCr 30 5 5	FCA-NiSiCr 30 5 5	F41005	GJLA-XNiSiCr 30-5-5	L-NSC 30 5 5	–	–	–	–	0.6680	–
60-40-18	GGG-40	SNG 420/12	FCD 400 sınıf 1	F32800	GJS-400-15	FGS400-12	GS400-12	0717-02	60-40-18	60-40-18	0.7040	–
65-45-12	GGG-50	SNG 500/7	FCD 500	F33100	GJS-500-7	FGS 500-7	GS 500/7	0727-02	65-45-12	65-45-12	0.7050	–
–	GGG-60	SNG 600/3	FCD 600-3	–	GJS-600-3	–	GS 600/3	–	80-55-06	80-55-06	0.7060	–
100-70-03	GGG-70	SNG 700/2	FCD 700	F34800	GJS-700-2	FGS 700-2	GS 700-2	0737-01	100-70-03	100-70-03	0.7070	–
120-90-02	GGG-80	SNG 800/2	FCD 800	F36200	GJS-800-2	FGS 800-2	GS 800-2	–	120-90-02	120-90-02	0.7080	–
A 439 Tip D-2	GGG-NiCr202	L-NiCuCr 20 2	FCDA-NiCr 20 2	–	GJSA-XNiCr 20-2	L-NC 20 2	–	0523-00	–	–	0.7660	–
A 439 Tip D-2C	GGG-Ni22	S-Ni 22	FCDA-Ni 22	F43002	GJSA-XNi 22	S-N 22	–	–	–	–	0.7670	–
A 439 Tip D-4	GGG-NiSiCr3053	S-NiSiCr 30 5 5	FCDA-NiSiCr 30 5 4	F43005	GJSA-XNiSiCr 30-5-3	S-NSC 30 5 5	–	–	–	–	0.7680	–
–	GTW-40-05	W 40-05	FCMW 370	–	–	MB 400-5	GMB 40	–	–	–	0.8040	–
–	GGV-40	–	–	–	GJV-400	–	–	–	–	–	0.9990	–
80-55-06	–	–	–	F33800	–	FGS 350-22	–	0732-03	D5506	–	–	–
–	–	–	–	–	–	–	–	–	D4018	–	–	–
–	–	–	–	–	–	–	–	–	D400	–	–	–
–	–	–	–	–	–	–	–	–	D4512	–	–	–
–	–	–	–	–	–	–	–	–	D450	–	–	–
–	–	–	–	–	–	–	–	–	M3210	–	–	–
–	–	–	–	–	–	–	–	–	M4504	–	–	–
–	–	–	–	–	–	–	–	–	M5003	–	–	–
–	–	–	–	–	–	–	–	–	M5503	–	–	–
–	–	–	–	–	–	–	–	–	M7002	–	–	–
–	–	–	–	–	–	–	–	–	D7003	–	–	–
–	–	–	–	–	–	–	–	–	M8501	A 602 M8501	–	–
–	GGV-45	–	–	–	GJV-450	–	–	–	–	–	–	–
–	GGG--SiMo3.08	–	–	–	–	–	–	–	–	–	–	–
–	GGG--SiMo4.10	–	–	–	–	–	–	–	–	–	–	–
–	GGG--SiMo5.10	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	HPI C13 06
–	GGV-35	–	–	–	GJV-350	–	–	–	–	–	–	–
–	GGV-50	–	–	–	GJV-500	–	–	–	–	–	–	–

K3 İş parçası malzeme listesi • Dökme demir • K3

K3 Yüksek dayanımlı düktil (dövülgen sünek) demirler ve Ostenitik düktil demir (Bainitik yapı, ADI) Çekme mukavemeti RM (MPa): >600 Sertlik (HB): 180–350 (HRC): <43*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	–	–	–	–	–	–	–	–	–	A 897 125-80-10	–	–
–	–	–	–	–	–	–	–	–	–	A 897 150-100-7	–	–
–	–	–	–	–	–	–	–	–	–	A 897 175-125-4	–	–
–	–	–	–	–	–	–	–	–	–	A 897 200-150-1	–	–
–	–	–	–	–	–	–	–	–	–	A 897 230-185	–	–

NOT: Etiket için, bkz. sayfa Y217.

N1 İş parçası malzeme listesi • Demir dışı metaller • N1

N1 Dövme alüminyum

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
1080	Al99.8	–	1A	–	–	–	–	–	–	–	3.0128	–
1050	Al99.5	L 31	1B	–	–	A 59050 C	–	–	–	–	3.0255	–
–	SG-Al 99,5	–	–	–	–	–	–	–	–	–	3.0259	–
1070	Al99.7	–	–	–	–	–	4508	–	–	–	3.0275	–
3103	AlMn	–	N3	–	–	–	–	–	–	–	3.0515	–
3003	AlMnCu	–	–	–	–	–	–	–	–	–	3.0517	–
3005	AlMn1Mg0.5	–	–	–	–	–	–	–	–	–	3.0525	–
3004	AlMn1Mg1	–	–	–	–	–	–	–	–	–	3.0526	–
–	AlMgSiPb	–	–	–	–	–	–	–	–	–	3.0615	–
–	SG-Al 99,5Ti	–	–	–	–	–	–	–	–	–	3.0805	–
–	SG-Al 99,5 Ti	–	–	–	–	–	–	–	–	–	3.0805	–
2014	AlCuSiMn	–	H15	–	–	A-U4SG	3581	–	–	–	3.1255	–
2017	AlCuMg 1	–	–	–	AW-2017 A	A-U4G	3579	–	–	–	3.1325	–
2024	AlCuMg 2	–	L97	–	AW-2024	A-U4G1	–	–	–	–	3.1355	–
–	AlCuMgPb	–	–	–	–	–	–	–	–	–	3.1645	–
2011	AlCuBiPb	–	FC1	–	–	A-U5PbBi	6362	–	–	–	3.1655	–
6082	AlMgSi 1	–	H30	–	AW-6005 A	A-SGM0.7	3571	–	–	–	3.2315	–
6060	AlMgSi0.5	–	–	–	–	–	–	–	–	–	3.3206	–
6063	AlMgSi0.7	–	H9	–	–	A-GS	3569	–	–	–	3.3206	–
6463	EAlMgSi0.5	–	91E	–	–	–	–	–	–	–	3.3207	–
5005	AlMg 1	–	N41	–	AW-6082	A-G0.6	5764-66	–	–	–	3.3315	–
5050	–	–	–	–	–	–	–	–	–	–	3.3316	–
5052	AlMg2.5	–	2L56	–	–	A-G2.5C	4574	–	–	–	3.3523	–
5754	AlMg 3	–	N5	–	–	A-G3M	3575	–	–	–	3.3535	–
5454	AlMg2.5Mn	–	N51	–	–	A-G2.5MC	7789	–	–	–	3.3537	–
5086	AlMg4Mn	–	–	–	–	–	–	–	–	–	3.3545	–
–	SG-Al Mg 4,5 Mn Zr	–	–	–	–	–	–	–	–	–	3.3546	–
5083	AlMg4,5Mn	–	N8	–	–	A-G4.5MC	7790	–	–	–	3.3547	–
5056	AlMg5	–	N6	–	–	A-G5	3576	–	–	–	3.3549	–
–	AlMg 5	–	–	–	–	–	–	–	–	–	3.3555	–
7050	AlZnMgCu0,5	L 86	–	–	–	AZ 4 GU/9051	811-04	–	–	–	3.4144	–
7020	AlZn4.5Mg1	–	H17	–	–	A-Z5G	–	–	–	–	3.4335	–
7022	AlZnMgCu0.5	–	–	–	–	–	–	–	–	–	3.4345	–
–	AlZn5,5MgCu	–	–	–	–	–	–	–	–	–	3.4365	–
7075	AlZnMgCu 1.5	–	DTD5074	A97075	AL-P7075	A-Z5GU	3735	–	7075	–	3.4365	–
1000	Al99.5H	L31	–	–	–	A59050C	–	–	–	–	3.0250	–
–	Al99.8	–	–	–	–	–	–	–	–	–	3.0280	–
–	AlMg3Mn	–	–	–	–	–	–	–	–	–	–	–
2025	–	–	A 2025 FD	A92025	–	–	–	–	2025	B 247 2025	–	–
1100	–	–	–	–	–	–	–	–	–	–	–	–
3105	–	–	–	–	–	–	–	–	–	–	–	–
5657	AlMg0.8Si	–	–	–	–	–	–	–	–	–	–	–
6070	–	–	–	–	–	–	–	–	–	–	–	–
6262	–	–	–	–	–	–	–	–	–	–	–	–
7003	–	–	–	–	–	–	–	–	–	–	–	–
2050	–	–	–	–	–	–	–	–	–	–	–	–
7475	–	–	–	–	–	–	–	–	–	–	–	–
7175	–	–	–	–	–	–	–	–	–	–	–	–
7178	–	–	–	–	–	–	–	–	–	–	–	–
5251	AlMg2Mo3	–	N4	–	–	A-G2M	3574	–	–	–	–	–
6151	–	–	–	–	–	–	–	–	–	–	–	–
7001	–	–	–	–	–	–	–	–	–	–	–	–
7040	–	–	–	–	–	–	–	–	–	–	–	–

N2 İş parçası malzeme listesi • Demir dışı metaller • N2

N2 Düşük silikon alüminyum alaşımlar ve Magnezyum alaşımlar *İçerik: Si <%12,2*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	SG-Al99,8	–	–	–	–	–	–	–	–	–	3.0286	–
–	G-AlCu 4 TiMg	–	–	–	–	–	–	–	–	–	3.1371	–
–	G-AlCu 4 TiMg	–	–	–	–	–	–	–	–	–	3.1371	–
–	G-AlCu 5 Ni 1,5	–	–	–	–	–	–	–	–	–	3.1754	–
–	G-AlCu 4 Ti	–	–	–	–	–	–	–	–	–	3.1841	–
–	G-AlSi 5 Cu 1	–	–	–	–	–	–	–	–	–	3.2131	–
–	G-AlSi 6 Cu 4	–	–	–	–	–	–	–	–	–	3.2151	–
–	G-AlSi 8 Cu 3	–	–	–	–	–	–	–	–	–	3.2161	–
–	G-AlSi 9 Cu 3	–	–	–	–	–	–	–	–	–	3.2163	–
–	G-AlSi 1 1	–	–	–	–	–	–	–	–	–	3.2211	–
–	SG-AlSi 5	–	–	–	–	–	–	–	–	–	3.2245	–
–	SG-AlSi 5	–	–	–	–	–	–	–	–	–	3.2245	–
–	G-AlSi 5 Mg	–	–	–	–	–	–	–	–	–	3.2341	–
4218 B	G-AlSi 7 Mg	–	–	–	–	–	–	–	–	–	3.2371	–
–	G-AlSi 9 Mg	–	–	–	–	–	–	–	–	–	3.2373	–
–	G-AlSi 10 Mg	–	–	–	–	–	–	–	–	–	3.2381	–
–	G-D AlSi 10 Mg	–	–	–	–	–	–	–	–	–	3.2382	–
A 360,2	G-AlSi 10 Mg(Cu)	LM 9	–	–	–	–	–	4253	–	–	3.2383	–
A 413,0	G-D AlSi 12	–	–	–	–	–	–	4247	–	–	3.2582	–
–	SG-AlSi 12	–	–	–	–	–	–	–	–	–	3.2585	–
–	G-D AlSi 12(Cu)	–	–	–	–	–	–	–	–	–	3.2982	–
6061	AlMgSiCu	–	H20	–	–	A-GSUC	6170	–	–	–	3.3211	–
–	G-AlMg 3 Si	–	–	–	–	–	–	–	–	–	3.3241	–
–	G-AlMg 5 Si	–	–	–	–	–	–	–	–	–	3.3261	–
–	G-D AlMg 9	–	–	–	–	–	–	–	–	–	3.3292	–
–	G-AlMg5Si(Cu,Mn)	–	–	–	–	–	–	–	–	–	3.3458	–
–	SG-AlMg 3	–	–	–	–	–	–	–	–	–	3.3536	–

(devamı)

N2 İş parçası malzeme listesi • Demir dışı metaller • N2 *(devamı)*

N2 Düşük silikon alüminyum alaşımlar ve Magnezyum alaşımlar *İçerik: Si <%12,2*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	G-AlMg 3	–	–	–	–	–	–	–	–	–	3.3541	–
–	SG-AlMg 4,5 Mn	–	–	–	–	–	–	–	–	–	3.3548	–
–	SG-AlMg 5	–	–	–	–	–	–	–	–	–	3.3556	–
–	G-AlMg 5	–	–	–	–	–	–	–	–	–	3.3561	–
ZE 41	G-MgZn 4 SE 1 Zr 1	MAG 5	–	–	MCMgZn 4 RE 1 Zr	G-Z 4 TR	–	–	–	–	3.5101	–
–	G-MgZn 5 Th 2 Zr 1	–	–	–	–	–	–	–	–	–	3.5102	–
EZ 33	MgSE 3 Zn 2 Zr 1	MAG 6	–	–	MCMgRE 3 Zn 2 Zr	G-TR 3 Z 2	–	–	–	–	3.5103	–
–	MgAl 9 Zn 1	–	–	–	–	–	–	–	–	–	3.5104	–
–	G-MgTh 3 Zn 2 Zr 1	–	–	–	–	–	–	–	–	–	3.5105	–
QE 22	G-MgAg 3 SE 2 Zr 1	MAG 12	–	–	MCMgRE 2 Ag 2 Zr	G-Ag 22,5	–	–	–	–	3.5106	–
–	G-D MgAl 6 Zn 1	–	–	–	–	–	–	–	–	–	3.5612	–
–	G-D MgAl 6	–	–	–	–	–	–	–	–	–	3.5662	–
AZ 81	G-MgAl 8 Zn 1	MAG 1	–	–	MCMgAl 8 Zn 1	G-A 9	–	–	–	–	3.5812	–
AZ 91	G-MgAl 9 Zn 1	MAG 7	–	–	MCMgAl 9 Zn 1	G-A 9 Z 1	–	–	–	–	3.5912	–
–	G-MgAl 8 Zn 1	–	–	–	–	–	–	–	–	–	3.5200	–
AS 41	G-D MgAl 4 Si 1	–	–	–	MCMgAl4Si	G-A4S 1	–	–	–	–	3.5470	–
–	G-AlZn10Si8Mg	–	–	–	–	–	–	–	–	–	–	–
AS 7 G	AlSi7Mg	–	–	–	–	–	–	–	–	–	–	–
2117	–	–	–	–	–	–	–	–	–	–	–	–
2218	AlCuMgNi2	–	–	–	–	–	–	–	–	–	–	–
2091	–	–	–	–	–	–	–	–	–	–	–	–
8090	–	–	–	–	–	–	–	–	–	–	–	–
2090	–	–	–	–	–	–	–	–	–	–	–	–
2224	–	–	–	–	–	–	–	–	–	–	–	–
2094	–	–	–	–	–	–	–	–	–	–	–	–
2095	–	–	–	–	–	–	–	–	–	–	–	–
2097	–	–	–	–	–	–	–	–	–	–	–	–
2098	–	–	–	–	–	–	–	–	–	–	–	–
2099	–	–	–	–	–	–	–	–	–	–	–	–
2195	–	–	–	–	–	–	–	–	–	–	–	–
2196	–	–	–	–	–	–	–	–	–	–	–	–
2197	–	–	–	–	–	–	–	–	–	–	–	–
2198	–	–	–	–	–	–	–	–	–	–	–	–
2297	–	–	–	–	–	–	–	–	–	–	–	–
2397	–	–	–	–	–	–	–	–	–	–	–	–
8017	–	–	–	–	–	–	–	–	–	–	–	–
8024	–	–	–	–	–	–	–	–	–	–	–	–
8091	–	–	–	–	–	–	–	–	–	–	–	–
8093	–	–	–	–	–	–	–	–	–	–	–	–
2199	–	–	–	–	–	–	–	–	–	–	–	–

N3 İş parçası malzeme listesi • Demir dışı metaller • N3

N3 Yüksek silikon alüminyum alaşımlar ve Magnezyum alaşımlar *İçerik: Si >%12,2*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
A 413,1	G-AlSi 12(Cu)	LM 20	–	–	–	–	–	4260	–	–	3.2583	–
A 413,2	G-AlSi 12	LM 6	–	–	–	–	–	4261	–	–	3.2581	–
–	G-AlSi17Cu4Mg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi18CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi21CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi12CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	GK-AlSi25CuNiMg	–	–	–	–	–	–	–	–	–	–	–
–	G-AlSi 21 CuNiMg	–	–	–	–	–	–	–	–	–	–	–
4032	–	–	–	–	–	–	–	–	–	–	–	–

N4 İş parçası malzeme listesi • Demir dışı metaller • N4

İşlenebilirlik dizini 70–100 aralığında N4 Bakır, Pirinç, Çinko esaslı

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
C 11000	E-Cu 58	C 101	–	–	–	Cn-a2	–	–	–	–	2.0065	–
C 81100	G-CuL 45	HCC 1	–	–	–	–	–	–	–	–	2.0082	–
C 81100	G-Cu L 50	HCC 1	–	–	–	–	–	–	–	–	2.0085	–
–	CuZn 40 MnPb	–	–	–	–	–	–	–	–	–	2.0241	–
C 26000	CuZn 30	CZ 102	C 2600	–	–	CuZn 30	–	–	–	–	2.0265	–
C 27200	CuZn 37	CZ 108	–	–	–	CuZn 37	C 2720	–	–	–	2.0321	–
–	CuZn 36 Pb 1.5	–	–	–	–	–	–	–	–	–	2.0331	–
–	S-CuZn40	–	–	–	–	–	–	–	–	–	2.0366	–
–	CuZn 39 Pb 3 + D567	–	–	–	–	–	–	–	–	–	2.0401	–
–	CuZn 40 Pb 2	–	–	–	–	–	–	–	–	–	2.0402	–
B-198	G-CuZn 15Si 4	–	–	–	–	–	–	–	–	–	2.0492	–
–	CuZn 40Al 1	–	–	–	–	–	–	–	–	–	2.0561	–
–	G-KCuZn 38 Al	–	–	–	–	–	–	–	–	–	2.0591	–
C 86500	G-CuZn 35 Al 1	HTB 1	–	–	–	U-Z 36 N 3	–	–	–	–	2.0592	–
–	G-KCuZn 37 Al 1	–	–	–	–	–	–	–	–	–	2.0595	–
C 86200	G-CuZn 34 Al 2	HTB 1	–	–	–	U-Z 36 N 3	–	–	–	–	2.0596	–
–	G-CuZn 25 Al 5	–	–	–	–	–	–	–	–	–	2.0598	–
–	S - CuNi 30 Fe	–	–	–	–	–	–	–	–	–	2.0837	–
–	CuNi 10 Fe 1 Mn	–	–	–	–	–	–	–	–	–	2.0872	–

NOT: Etiket için, bkz. sayfa Y217.

(devamı)

N4 İş parçası malzeme listesi • Demir dışı metaller • N4 *(devamı)*

İşlenebilirlik dizini 70–100 aralığında N4 Bakır, Pirinç, Çinko esaslı

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	S - CuNi 10 Fe	–	–	–	–	–	–	–	–	–	2.0873	–
–	CuNi 30 Mn 1 Fe	–	–	–	–	–	–	–	–	–	2.0882	–
–	SG-Cu Al 8	–	–	–	–	–	–	–	–	–	2.0921	–
–	SG-CuAl 8 Ni 2	–	–	–	–	–	–	–	–	–	2.0922	–
–	SG-CuAl 9 Ni5 Fe	–	–	–	–	–	–	–	–	–	2.0927	–
–	CuAl 10 Fe 3 Mn 2	CA 103	–	–	–	U-A 10 Fe	–	–	–	–	2.0936	–
–	SG-Cu Al 10 Fe	–	–	–	–	–	–	–	–	–	2.0937	–
C 63000	CuAl 10 Ni 5 Fe 4	Ca 104	–	–	–	U-A 10 N	–	–	–	–	2.0966	–
B-148-52	G-CuAl 10 Ni	–	–	–	–	–	–	–	–	–	2.0975	–
–	SG-Cu Sn	–	–	–	–	–	–	–	–	–	2.1006	–
–	SG-Cu Sn 6	–	–	–	–	–	–	–	–	–	2.1022	–
C 90800	G-CuSn 12	Pb 2	–	–	–	UE 12 P	–	–	–	–	2.1052	–
–	G-CuSn 12 Pb	–	–	–	–	–	–	–	–	–	2.1061	–
–	G-CuSn 10 Zn	–	–	–	–	–	–	–	–	–	2.1086	–
C 93200	G-CuSn 7 ZnPb	–	–	–	–	U-E 7 Z 5 Pb 4	–	–	–	–	2.1091	–
–	G-CuSn 6 ZnNi	LG 4	–	–	–	–	–	–	–	–	2.1093	–
C 83600	G-CuSn 5 ZnPb	LG 2	–	–	–	U-E 5 Pb 5 Z 5	–	–	–	–	2.1096	–
–	G-CuSn 2 ZnPb	–	–	–	–	–	–	–	–	–	2.1098	–
C 93700	G-CuPb 10 Sn	LB 2	–	–	–	U-E 10 Pb 10	–	–	–	–	2.1176	–
C 93800	G-CuPb 15 Sn	LB 1	–	–	–	U-Pb 15 E 8	–	–	–	–	2.1182	–
C 94100	G-CuPb 20 Sn	LB 5	–	–	–	U-Pb 20	–	–	–	–	2.1188	–
C 81500	G-CuCrF 35	CC1-FF	–	–	–	–	–	–	–	–	2.1292	–
C 18200	CuCrZr	CC 102	–	–	–	U-Cr 0,8 Zr	–	–	–	–	2.1293	–
–	SG-Cu Mn 13 Al 7	–	–	–	–	–	–	–	–	–	2.1367	–
–	SG-Cu Si 3	–	–	–	–	–	–	–	–	–	2.1461	–
CuSi 3 Mn	–	–	–	–	–	–	–	–	–	–	2.1525	–
–	OF-Cu	–	–	–	–	–	–	–	–	–	2.0040	–
B-120	E-Cu 57	–	–	–	–	–	–	–	–	–	2.0060	–
C 10300	SE-Cu	C 101	–	–	–	Cu-c1	–	–	–	–	2.0070	–
–	CuZn 5	–	–	–	–	–	–	–	–	–	2.0220	–
C 23000	CuZn 15	CZ 102	C 2300	–	–	CuZn 15	–	–	–	–	2.0240	–
–	G-CuZn 33 Pb	–	–	–	–	–	–	–	–	–	2.0290	–
–	CuZn 36 Pb 2	–	–	–	–	–	–	–	–	–	2.0330	–
–	G-CuZn 37 Pb	–	–	–	–	–	–	–	–	–	2.0340	–
–	CuZn 40	–	–	–	–	–	–	–	–	–	2.0360	–
–	CuZn 39 Pb 2	–	–	–	–	–	–	–	–	–	2.0380	–
–	CuZn 20 Al 2	–	–	–	–	–	–	–	–	–	2.0460	–
–	CuZn 37Al 1	–	–	–	–	–	–	–	–	–	2.0510	–
–	CuZn 40 Al 2	–	–	–	–	–	–	–	–	–	2.0550	–
–	G-CuZn 40 Fe	–	–	–	–	–	–	–	–	–	2.0590	–
–	G-CuAl 10 Fe	–	–	–	–	–	–	–	–	–	2.0940	–
C 90700	G-CuSn 10	CT 1	–	–	–	–	–	–	–	–	2.1050	–
C 91700	G-CuSn 12 Ni	–	–	–	–	–	–	–	–	–	2.1060	–
–	C35100	–	–	–	–	–	–	–	–	–	–	–
–	17665	–	–	C95500	–	–	–	–	–	–	–	–
–	MS60	–	–	–	–	–	–	–	–	–	–	–

N5 İş parçası malzeme listesi • Demir dışı metaller • N5

N5 Naylon, Plastikler, Lastikler, Fenolikler, Reçineler, Cam Elyaf

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	LEXAN	–	–	–	–	–	–	–	–	–	–	–
–	HOSTALEN	–	–	–	–	–	–	–	–	–	–	–
–	Polistirol	–	–	–	–	–	–	–	–	–	–	–
–	Makralon	–	–	–	–	–	–	–	–	–	–	–

N6 İş parçası malzeme listesi • Demir dışı metaller • N6

N6 Karbon, Grafitli alaşımlar, CFRP

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	GFK	–	–	–	–	–	–	–	–	–	–	–
–	CFK	–	–	–	–	–	–	–	–	–	–	–
Grafit	–	–	–	–	–	–	–	–	–	–	–	–
CFRP	–	–	–	–	–	–	–	–	–	–	–	–

S1 İş parçası malzeme listesi • Isıl dirençli alaşımlar • S1

S1 Demir esaslı alaşımlar, Isıl dirençli alaşımlar *Çekme mukavemeti RM (MPa)*: 500–1200* *Sertlik (HB): 160–260 (HRC): 25–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	X 10 Cr 25	–	–	–	–	–	–	–	–	–	1.3811	–
–	D 1 a	–	–	–	–	–	–	–	–	–	1.3915	–
–	D 3	BD 3	–	–	X 210 Cr 1 2	Z 200 C 12	X 205 Cr 12 KU	–	–	–	1.3916	–
–	RNi 12	–	–	–	–	–	–	–	–	–	1.3926	–
–	RNi 8	–	–	–	–	–	–	–	–	–	1.3927	–
–	GX 2 NiCoMoTi1 7 10	–	–	–	–	–	–	–	–	–	1.6351	Maraging
6501, 6512, 6520	X 2 NiCoMo 18 8 5	–	–	UNS K92890	S162	Z2NKD18.8	–	–	–	ASTM A646	1.6359	ATI VascoMax® C-250
–	X 2 NiCoMo 18-8-5	–	–	K92890	–	–	–	–	–	–	1.6359	Maraging
–	X 1 CrNiCoMo 13 8 5	–	–	–	–	–	–	–	–	–	–	Maraging
–	Ni 36	–	–	–	–	–	–	–	–	–	1.3910	Magnifer 36
–	Ni 46	–	–	–	–	–	–	–	–	–	1.3920	–
–	X 2 CrNiCoMo 12 8 5	–	–	–	–	–	–	–	–	–	1.6980	Maraging
ASTM B463	–	–	–	UNS N08020	–	–	–	–	–	ASTM B463	2.4660	20CB-3
ASTM A666	–	–	–	–	–	–	–	–	–	ASTM A666	–	21.06.2009
ASTM B753	–	–	–	–	–	–	–	–	–	ASTM B753	–	AL 4750
S66286	–	–	NAS 660	UNS S66286	–	–	A-286	–	–	–	–	ATI A286™
–	–	–	–	UNS K92810	–	–	–	–	–	–	–	ATI VascoMax® C-200
6514	–	–	–	UNS K93120	–	–	–	–	–	–	–	ATI VascoMax® C-300
–	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® C-350
–	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® T-200
6518, 6519, 6591	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® T-250
–	–	–	–	–	–	–	–	–	–	–	–	ATI VascoMax® T-300
5725	–	–	–	–	–	Z3NCT25	–	–	SAE 16-25-6	–	–	Discaloy 16-25-6
ASTM A638	–	–	–	–	–	Z3NCT25	–	–	Discaloy	ASTM A638	–	Discaloy 24
–	–	–	–	R30556	–	–	–	–	–	–	–	Haynes® 556
5768	X 12 CrCoNi 21 20	–	–	–	–	Z12CKNDWNb21.20.20	–	–	–	–	–	Haynes 556
ASTM F30	–	–	–	–	–	–	–	–	Invar	ASTM F30	–	Invar 42
5768	–	–	–	UNS R30155	–	Z12CNKDW20	–	–	–	–	–	Multimet N-155
–	–	–	–	–	–	–	–	–	–	–	–	Multimet N-156
5533	X 40 CoCrNi 20 20	–	–	–	–	Z42CKNDW	–	–	–	–	–	S 590
–	X 2 NiCrAlTi 32 20	–	–	–	–	–	–	–	–	–	–	Sanicro 30
AISI:665	–	–	–	–	–	Z8NCTDA2613	–	–	–	–	–	W-545

S2 İş parçası malzeme listesi • Isıl dirençli alaşımlar • S2

S2 Kobalt esaslı alaşımlar, Isıl dirençli alaşımlar *Çekme mukavemeti RM (MPa)*: 1000–1450* *Sertlik (HB): 250–450 (HRC): 25–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	CoCr 26 Ni 9 Mo	–	–	–	–	–	–	–	–	–	2.4681	–
–	CoCr 25 NiW	–	–	–	–	KC25WN	–	–	–	ASTM A567	2.4682	Stellite® 31 (X40)
–	CoCr 22 NiW	–	–	–	–	–	–	–	–	–	2.4683	–
–	CoCr 28 Mo	–	–	–	–	KC27D5NFe	–	–	–	ASTM F-75	2.4691	HS 21
–	CoCr 20 Ni 15 Mo	–	–	–	–	–	–	–	–	–	2.4711	–
–	CoCr 29 Mo	–	–	–	–	–	–	–	–	–	2.4723	–
–	CoCr 33 W	–	–	–	–	–	–	–	–	–	2.4775	–
–	CoCr 28	–	–	–	–	–	–	–	–	–	2.4778	–
–	CoCr 28 Nb	–	–	–	–	–	–	–	–	–	2.4779	–
–	–	–	–	–	–	–	–	–	–	ASTM F90	2.4964	F 90
–	–	–	–	R30605	–	KC20WN	–	–	–	–	2.4964	Haynes 25
–	CoCr 20 W 15 Ni	HR 240	–	R30605	–	KC20WN	–	–	–	5759	2.4964	L 605
–	CoCr 20 W 15 Ni	–	–	CAST, L605 sürümü	–	KC20WN	–	–	–	5759	2.4964	Stellite 25
AMS 5399	NiCr 19 Co 11 MoTi	–	–	–	–	NC 19 KDT	–	–	–	–	2.4973	–
–	CoCr 20 Ni 20 W	–	–	–	–	–	–	–	–	5534	2.4979	S 816
–	CoCr20NiW	–	–	–	–	–	–	–	–	–	2.4989	–
–	–	–	–	R31537 ve R31538	–	CoCr28Mo	–	–	–	ASTM F1537	–	F 1537
–	–	–	–	–	–	–	–	–	–	ASTM F562	–	F 562
–	–	–	–	–	–	–	–	–	–	ASTM F563	–	F 563
–	–	–	–	R30188	–	KC22N22W14Fe	–	–	–	–	–	Haynes 188
AISI 670	CoCr 20 W 15 Ni	–	–	–	–	KC20WN	–	–	–	–	–	HS 25
–	CoCr 26 Ni 14 Mo	–	–	–	–	–	–	–	–	5380	–	HS 30
–	CoCr 19 W 14 NiB	–	–	–	–	–	–	–	–	–	–	HS 36
–	–	–	–	–	–	–	–	–	–	–	–	L 251
–	CoCrW 10 TaZrB	–	–	–	–	KC21W10Ta9	–	–	–	–	–	MAR-M 302
–	CoCr 22 W 9 TaZrNb	–	–	–	–	KC21W9Ta	–	–	–	–	–	MAR-M 322
–	CoCr 24 Ni 10 WTaZrB	–	–	–	–	KC23N10W7Ta	–	–	–	–	–	MAR-M 509
–	–	–	–	–	–	KC20N20Ta7	–	–	–	–	–	MAR-M 905
–	CoCr 20 Ni 20 Ta	–	–	–	–	KC20N20Ta7	–	–	–	–	–	MAR-M 918
–	–	–	–	R30159	–	–	–	–	–	–	–	MP159
–	–	–	–	R30035	–	–	–	–	–	–	–	MP35N
–	–	–	–	–	–	KC33W13	–	–	–	–	–	Stellite 1
–	–	–	–	–	–	KC28W8	–	–	–	–	–	Stellite 12
–	–	–	–	–	–	KC22N22W14Fe	–	–	–	–	–	Stellite 188
–	–	–	–	–	–	KC26NW	–	–	–	–	–	Stellite 6
–	–	–	–	–	–	–	–	–	–	–	–	Stellite 8 (F75)
–	CoCr 25 Ni 20 MoWNb	–	–	–	–	KC25N20DFeWNb	–	–	–	–	–	V-36
–	CoCr 21 Mo 11 W	–	–	–	–	KC21W11ANbT	–	–	–	–	–	WI-52
–	–	–	–	–	–	KC25N10W7Fe	–	–	–	–	–	X 45
–	–	–	–	–	–	–	–	–	J-1570	–	–	–
–	K13C20N126Fe15D7	–	–	R3003 ve R3008	–	K13C20N126Fe15D7	–	–	–	ASTM F1058	–	–

NOT: Etiket için, bkz. sayfa Y217.

S3 İş parçası malzeme listesi • Isıl dirençli alaşımlar • S3

S3 Nikel esaslı alaşımlar, Isıl dirençli alaşımlar *Çekme mukavemeti RM (MPa)*: 600–1700* *Sertlik (HB): 160–450 (HRC): <48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	X 7 NiCrCoMo 54 20	–	–	–	–	–	–	–	–	–	1.2789	–
–	Ni 99,7 Mg 0,07	–	–	J24053	–	–	–	–	–	A 915 J24053	2.4053	–
–	LC-Ni 99,6	–	–	N02201	–	–	–	–	–	–	2.4061	–
–	–	–	–	N02200	–	–	–	–	–	–	2.4066	200
Nikel 200	Ni 99,2	NA 11	–	N02200	–	–	–	–	–	–	2.4066	–
–	–	–	–	N02201	–	–	–	–	–	–	2.4068	201
Nikel 201	LC-Ni 99	NA 12	–	–	–	–	–	–	–	–	2.4068	–
–	NiMn 1	–	–	–	–	–	–	–	–	–	2.4106	–
–	NiMn 1 C	–	–	–	–	–	–	–	–	–	2.4108	–
–	NiMn 1,5	–	–	–	–	–	–	–	–	–	2.4109	–
–	NiMn 3 Al	–	–	–	–	–	–	–	–	–	2.4122	–
–	NiMn 3 SiMg	–	–	–	–	–	–	–	–	–	2.4126	–
–	NiCr 2 Mn	–	–	–	–	–	–	–	–	–	2.4145	–
–	NiCr 2 MnSi	–	–	–	–	–	–	–	–	–	2.4146	–
–	NiCr 5 MnSi	–	–	–	–	–	–	–	–	–	2.4151	–
–	SG-NiTi 4	NA32	–	–	NA 32	–	–	–	–	–	2.4155	–
CZ-100	G-Ni 93 C	–	–	–	–	–	–	–	–	–	2.4175	–
–	NiCr 4 Mn	–	–	–	–	–	–	–	–	–	2.4199	–
M 35-1/2	G-NiCu 30 Nb	–	–	N24030	–	–	–	–	–	–	2.4365	–
–	EL-NiCu 30 Mn	–	–	N04402	–	–	–	–	–	–	2.4366	–
M 30-H	G-NiCu 30 Si 3	–	–	–	–	–	–	–	–	–	2.4367	–
M-255	G-NiCu 30 Si 4	–	–	–	–	–	–	–	–	–	2.4368	–
–	NiCu 30 Al	–	–	–	–	–	–	–	–	–	2.4374	–
–	NiCu 30 Al	NA 18	–	N05500	3072,76	NU 30 AT	–	–	–	–	2.4375	Monel® K500
–	SG-NiCu 30 MnTi	NA 33	–	–	–	–	–	–	–	–	2.4377	–
–	NiFe 16 CuCr	–	–	–	–	–	–	–	–	–	2.4501	–
–	G-NiMo 16 CrW	–	–	–	–	–	–	–	–	–	2.4537	–
–	NiCr 21 Mo 14 W	–	–	N26022	–	–	–	–	–	–	2.4602	INCONEL® alloy 622
–	NiCr 30 FeMo	–	–	–	–	–	–	–	–	–	2.4603	Hastelloy® G-30
–	–	–	–	N06059	–	–	–	–	–	ASTM B575	2.4605	Allcorr
–	NiCr 23 Mo 16 Al	–	–	–	–	–	–	–	–	–	2.4605	–
–	SG/UP-NiCr 23 Mo 16	–	–	–	–	–	–	–	–	–	2.4607	–
–	NiCr 26 MoW	–	–	–	–	–	–	–	–	–	2.4608	–
–	SG-NiMo 27	–	–	–	–	–	–	–	–	–	2.4615	–
–	NiMo 28	–	–	N10665	–	NiMo 28	–	–	–	–	2.4617	–
–	NiCr 22 Mo 6 Cu	–	–	–	–	–	–	–	–	–	2.4618	–
–	–	–	–	N06985	–	–	–	–	–	–	2.4619	Hastelloy G-3
–	NiCr 22 Mo 7 Cu	–	–	N06985	–	–	–	–	–	–	2.4619	–
–	SG-NiCr 23 Al	NA 49	–	–	–	–	–	–	–	–	2.4626	–
–	SG-NiCr 22 Co 12 Mo	NA 50	–	–	–	–	–	–	–	–	2.4627	–
–	NiCr 20 Ti	HR5	–	N06075	HR5, 203.4	NC 20 T	–	–	–	–	2.4630	Nimonic® 75
–	NiCr 20 TiAl	NA 20	NCF 80A	N07080	HR401, 601	NC 20 TA	–	–	–	–	2.4631	Nimonic 80A
–	NiCr 20 Co 18 Ti	NA 36	–	N07090	HR2, 202	NC20KTA	–	–	–	–	2.4632	Nimonic 90
–	NiCo 20 Cr 15 MoAlTi	–	–	N13021	HR3	NCKD20ATV	–	–	–	–	2.4634	Nimonic 105
–	NiCo 15 Cr 15 MoAlTi	HR4	–	–	HR401, 601	NCVK15ATD	–	–	–	–	2.4636	Nimonic 115
AISI 687	NiCo 15 Cr 15 MoAlTi	–	–	–	–	NCKD20AT	–	–	–	–	2.4636	Udimet® 700
–	NiCr 22 Mo 8 AlCuTi	–	–	–	–	–	–	–	–	–	2.4637	–
–	SG-NiCr 20	NA 34	–	–	–	–	–	–	–	–	2.4639	–
–	NiCr 21 Mo 6 Cu	–	NCF 600 TP	–	–	–	–	–	–	–	2.4641	–
–	NiCr 29 Fe	–	NCF 690	N06690	–	NC 30 Fe	–	–	–	–	2.4642	INCONEL® alloy 690
–	NiCr 25 FeAlYC	–	–	–	–	–	–	–	–	–	2.4647	–
–	NiCr 20 CoMoTi	NA 38	NCF 690	N07263	HR10	NCK 20 D	–	–	–	–	2.4650	Nimonic C263
–	EL-NiCr 26 Mo	–	–	–	–	–	–	–	–	–	2.4652	–
–	NiCr 19 Co 14 Mo 4 Ti	–	–	N07001	–	NC20K14Y	–	–	–	–	2.4654	Waspaloy
–	SG-NiCr 29 Mo	–	–	–	–	–	–	–	–	–	2.4656	–
–	NiCr 70 30	–	–	N06008	–	–	–	–	–	–	2.4658	–
–	SG-NiCr 30 Mo 5 W	–	–	–	–	–	–	–	–	–	2.4659	–
–	EL-NiCr 29 Mo 5 W	–	–	–	–	–	–	–	–	–	2.4661	–
–	NiFe 35 Cr 14 MoTi	–	–	N09901	–	Z8NCDT42	–	–	–	–	2.4662	INCOLOY® 901
–	NiCr 13 Mo 6 Ti 3	–	–	N09901	–	Z8NCDT42	–	–	–	–	2.4662	Nimonic 901
–	NiCr 23 Co 12 Mo	–	–	N06617	–	NC22K12D9A	–	–	–	–	2.4663	INCONEL® alaşım 617
–	NiCr 22 FeMo	–	–	N06002	HR6, 204	NC22FeD	–	–	–	–	2.4665	Hastelloy X
–	NiCr 22 Fe 18 Mo	NA 40	–	N06002	–	NC22FeD	–	–	–	–	2.4665	INCONEL alaşım HX
–	NiCr 18 CoMo	–	–	–	–	NKCD20ATU	–	–	–	–	2.4666	Nimonic PK25
–	SG-NiCr 19 NbMoTi	NA 51	–	–	–	–	–	–	–	–	2.4667	–
–	NiCr 19 FeNbMo	–	–	N07718	HR8	NC 19 Fe Nb	–	–	–	–	2.4668	INCONEL alaşım 718
–	NiCr 15 Fe 7 TiAl	–	–	N07750	–	NC 15 Fe 7 TA	–	–	–	–	2.4669	INCONEL alaşım X750
–	G-NiCr 12 Al 6 MoNb	–	–	–	–	–	–	–	–	–	2.4671	–
–	G-NiCr 20 Co 20 MoTi	–	–	–	–	–	–	–	–	–	2.4672	–
–	NiCo 15 Cr 10 MoAlTi	–	–	N13100	–	NK15CAT	–	–	–	–	2.4674	IN 100
–	NiCo 15 Cr 10 MoAlTi	–	–	–	–	NK15C10A5T	–	–	–	–	2.4674	René 100
–	G-NiCo 15 Cr 10 AlTiMo	–	–	–	–	–	–	–	–	–	2.4674	–
–	G-NiCo 10 W 10 CrAlNb	–	–	–	–	–	–	–	–	–	2.4676	–
–	G-NiCr 50	–	–	–	–	–	–	–	–	–	2.4678	–
–	G-NiCr 35	–	–	–	–	–	–	–	–	–	2.4679	–
–	–	–	–	N10665	–	–	–	–	–	N7M	2.4685	Hastelloy B-2
CW-12 MW	G-NiMo 17 CrW	–	–	–	–	–	–	–	–	–	2.4686	–
–	NiCr 25 Mo 7 Ti	–	–	–	–	–	–	–	–	–	2.4693	–
–	NiCr 16 Fe 7 TiAl	–	–	N 07751	–	–	–	–	–	–	2.4694	INCONEL alaşım 751
–	G-NiCr 20 Mo 15	–	–	–	–	–	–	–	–	–	2.4697	–
–	NiCr 22 W 14 Mo	–	–	–	–	–	–	–	–	–	2.4733	–
–	NiCr 20 AlY	–	–	–	–	–	–	–	–	–	2.4764	–
–	NiCr 17 AlWY	–	–	–	–	–	–	–	–	–	2.4765	–
–	SG-NiCr 20 Nb	NA 35	–	–	–	–	–	–	–	–	2.4806	–
–	G-NiCr 50 Nb	–	–	–	–	–	–	–	–	–	2.4813	–
–	NiCr 15 Fe	NA 14	NCF 600	N06600	3072,76	NC 15 Fe	–	–	–	–	2.4816	INCONEL alaşım 600
–	G-NiMo 30	–	–	N10276	–	NC 15 D 14 KFe	–	–	–	–	2.4819	Hastelloy C-276
ASME SB575	NiMo 16 Cr 15 W	–	–	N10276	–	NC 17 D	–	–	–	–	2.4819	Nimonic C276

(devamı)

S3 İş parçası malzeme listesi • Isıl dirençli alaşımlar • S3 *(devamı)*

S3 Nikel esaslı alaşımlar, Isıl dirençli alaşımlar *Çekme mukavemeti RM (MPa)*: 600–1700* *Sertlik (HB): 160–450 (HRC): <48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	SG-NiCr 21 Mo 9 Nb	–	–	–	–	–	–	–	–	–	2.4831	–
–	NiCr 20 Mo 15	–	–	–	–	–	–	–	–	–	2.4836	–
–	SG-NiCr 20 Mo 15	–	–	–	–	–	–	–	–	–	2.4839	–
–	–	–	–	N06601	–	–	–	–	–	–	2.4851	Haynes® 601
–	NiCr 23 Fe	–	NCF 601	N06601	–	NC 23 Fe 14 A	–	–	–	–	2.4851	INCONEL alaşım 601
–	NiFe 33 Cr 25 Co	–	–	–	–	–	–	–	–	–	2.4854	–
–	NiCr 19 Mo 9 Si	–	–	–	–	–	–	–	–	–	2.4855	–
ASME SB443	NiCr 22 Mo 9 Nb	–	–	N06625	–	NC 22 Fe DNb	–	–	–	–	2.4856	Haynes 625
ASME SB443.4	NiCr 22 Mo 9 Nb	NA 21	NCF 625	N06625	–	NC 22 Fe DNb	–	–	–	–	2.4856	INCONEL alaşım 625
ASME SB163	NiCr 21 Mo	–	–	N08825	3072,76	NC21FeDU	–	–	–	–	2.4858	INCOLOY® 825
–	NiCr 60 15	–	–	–	–	–	–	–	–	–	2.4867	–
–	NiCr 80 20	–	–	–	–	–	–	–	–	–	2.4869	–
–	NiCr 20 AlSi	–	–	–	–	–	–	–	–	–	2.4872	–
–	G-NiCr 28 W	–	–	–	–	–	–	–	–	–	2.4879	Centralloy® 4879
–	NiCr 17 Mo 17 FeW	–	–	N10002	–	NC17DWY	–	–	–	CW12MW	2.4883	Hastelloy C
–	G-NiMo 16 Cr	–	–	–	–	–	–	–	–	–	2.4883	–
–	SG-NiMo 16 cr 16 W	NA 48	–	–	–	–	–	–	–	–	2.4886	–
–	G-NiCr 13 MoAl	–	–	–	–	–	–	–	–	–	2.4888	–
–	NiCr 20 Ti	HR 5	–	N06621	–	NC 20 T	–	–	–	–	2.4951	–
–	NiCr 20 TiAl	NA 20	NCF 80 A	N07080	–	NC 20 TA	–	–	–	–	2.4952	–
–	NiFe 25 Cr 20 NbTi	–	–	–	NiFe 25 Cr 20 NbTi	–	–	–	–	–	2.4955	–
–	NiCr 20 Co 18 Ti	NA 19	–	N07090	–	–	–	–	–	–	2.4969	–
–	NiCr 22 W 12 Fe	–	–	–	–	–	–	–	–	–	2.4972	–
–	NiCr 19 Co 11 MoTi	–	–	N07041	–	NC19KDT	–	–	–	–	2.4973	René 41
–	NiFeCr 12 Mo	–	–	–	–	–	–	–	–	–	2.4975	–
–	NiCr 20 Mo	–	–	–	–	–	–	–	–	–	2.4976	–
–	NiCr 20 CoMo	–	–	–	–	–	–	–	–	–	2.4982	–
–	NiCr 18 Co	–	–	N07500	–	–	–	–	–	–	2.4983	Co500
AISI 684	NiCr 18 CoMoAlTi	–	–	N07500	–	NCK19DAT	–	–	–	–	2.4983	Udimet® 500
–	Ni 99,6	NA 46	–	–	–	–	–	–	–	–	2.4060	–
–	NiMn 2	–	–	–	–	–	–	–	–	–	2.4110	–
SZ-100	G-Ni 95	–	–	–	–	–	–	–	–	–	2.4170	–
–	G-Ni 93 Si	–	–	–	–	–	–	–	–	–	2.4180	–
–	NiCu 30 Fe	–	–	N04400	3072,76	NU30	–	–	–	–	2.4360	Monel® 400
–	NiCu 30 Ti	–	–	–	–	–	–	–	–	–	2.4370	Monel 60
–	NiFe 44	–	–	–	–	–	–	–	–	–	2.4420	Magnifer 53
–	NiFe 16 CuMo	–	–	–	–	–	–	–	–	–	2.4530	Perm 77
–	NiFeK 6040	–	–	–	–	–	–	–	–	–	2.4560	–
–	NiMo 16 Cr 16 Ti	NA 45	–	N26455	–	–	–	–	–	–	2.4610	Hastelloy C-4
–	–	–	–	–	–	20CB-3	–	–	–	ASTM B463	2.4660	INCOLOY 020
–	NiCr 20 CuMo	–	–	N08020	–	–	–	–	–	–	2.4660	–
–	G-NiCr 13 Al 16 MoNb	–	–	–	HC203	NC13AD	–	–	–	–	2.4670	Nimocast 713
–	G-NiCr 50 Nb	–	–	–	–	–	–	–	–	–	2.4680	–
–	NiMo 23 Cr 8 Fe	–	–	–	–	–	–	–	–	–	2.4710	–
–	NiMo 30	–	–	–	–	ND27FeV	–	–	–	N-12 MV	2.4810	Hastelloy B
–	NiCr 45 23	–	–	–	–	–	–	–	–	–	2.4890	–
–	–	–	–	N13017	–	NK17C15D5AT	–	–	–	–	–	Astroloy
–	–	–	–	–	–	–	–	–	–	–	–	Centralloy® 60HTD
AISI 686	–	–	–	–	–	NC15Fe10D5AT	–	–	–	–	–	GMR 235
–	NiCr 16 MoAl	–	–	–	–	NC15D5FeAT	–	–	–	–	–	GMR 235-D
–	–	–	–	–	–	–	–	–	–	CW6M	–	Hastelloy C-22
–	–	–	–	N06007	–	NC22Fe19D6KTa	–	–	–	–	–	Hastelloy G
–	–	–	–	N10003	–	–	–	–	–	–	–	Hastelloy N
–	–	–	–	N06635	–	NC15D14KFe	–	–	–	–	–	Hastelloy S
–	–	–	–	N10004	–	–	–	–	–	–	–	Hastelloy W
–	–	–	–	N07263	–	NC20K20D6T	–	–	–	–	–	Haynes® 263
–	–	–	–	–	–	–	–	–	–	–	–	Haynes 282
–	NiCr 15 Fe	–	–	N06600	–	–	–	–	–	–	–	Haynes 600
–	–	–	–	–	–	–	–	–	–	–	–	Haynes 75
–	NiCo 32 Cr 26 Mo	–	–	–	–	–	–	–	–	–	–	HS27
–	–	–	–	N06102	–	–	–	–	–	–	–	IN 102
ASME SB409	X 10 NiCrAlTi 32-20	–	–	N08800	3082,76	Z10NC3221	–	–	–	–	–	INCOLOY 800
–	–	–	–	–	–	Z4NC3221	–	–	–	–	–	INCOLOY 802
–	–	–	–	–	–	NC29Fe25	–	–	–	–	–	INCOLOY 804
–	NiFe 42 K 15 Nb	–	–	N19903	–	Z3NK28	–	–	–	–	–	INCOLOY 903
–	–	–	–	N19907	–	–	–	–	–	–	–	INCOLOY 907
–	–	–	–	N09925	–	–	–	–	–	–	–	INCOLOY 925
–	–	–	–	N09945	–	–	–	–	–	–	–	INCOLOY 945
ASME SB575	–	–	–	–	–	NiMo16Cr15	–	–	–	–	–	INCONEL ALAŞIM 22
–	–	–	–	–	–	–	–	–	–	–	–	INCONEL ALAŞIM 230
–	–	–	–	–	–	–	–	–	–	–	–	INCONEL ALAŞIM 600SP
–	–	–	–	–	–	–	–	–	–	–	–	INCONEL ALAŞIM 62
–	–	–	–	N06626	–	–	–	–	–	–	–	INCONEL ALAŞIM 625LCF
–	–	–	–	–	–	NC15A	–	–	–	–	–	INCONEL ALAŞIM 702
–	–	–	–	N09706	–	NFe10C16NbT	–	–	–	–	–	INCONEL ALAŞIM 706
–	–	–	–	N07718	–	–	–	–	–	–	–	INCONEL ALAŞIM 718 OP
–	–	–	–	–	–	NC16Fe8TM	–	–	–	–	–	INCONEL ALAŞIM 721
–	NiCr 16 FeTi	–	–	N07722	–	NC16FeTi	–	–	–	–	–	INCONEL ALAŞIM 722
–	–	–	–	R30783	–	–	–	–	–	–	–	INCONEL ALAŞIM 783
–	–	–	–	N09925	–	–	–	–	–	B983 N09925	–	INCONEL ALAŞIM 925
–	–	–	–	N10276	–	–	–	–	–	–	–	INCONEL ALAŞIM C-276
–	–	–	–	N07754	–	–	–	–	–	–	–	INCONEL ALAŞIM MA754
–	–	–	–	N07751	–	–	–	–	–	–	–	INCONEL ALAŞIM X751
–	–	–	–	K93600 K93603	–	–	–	–	–	ASTM F1684	–	INVAR® 36
–	NiCr 20 Co 18 Ti	–	–	–	–	–	–	–	–	–	–	Jessop G81
–	G-NiCr 19 Co	–	–	N07252	–	–	–	–	–	–	–	M 252
–	–	–	–	N04405	–	–	–	–	–	–	–	Monel® R405

NOT: Etiket için, bkz. sayfa Y217.

(devamı)

S3 İş parçası malzeme listesi • Isıl dirençli alaşımlar • S3 *(devamı)*

S3 Nikel esaslı alaşımlar, Isıl dirençli alaşımlar *Çekme mukavemeti RM (MPa)*: 600–1700* *Sertlik (HB): 160–450 (HRC): <48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
–	NiFe 33 Cr 17 Mo	–	–	–	–	–	–	–	–	–	–	Nimocast PD16
–	–	–	–	–	HC202	NC20N13	–	–	–	–	–	Nimocast PE10
–	–	–	–	–	–	NC19K18Fe5TA	–	–	–	–	–	Nimonic® 95
ASME SB575	–	–	–	N06022	–	–	–	–	–	–	–	Nimonic C22
–	NiCr 22 Fe 18 Mo	–	–	–	HR6, 204	NC22FeD	–	–	–	–	–	Nimonic PE13
–	NiFe 33 Cr 17 Mo	–	–	–	HR207	NW11AC	–	–	–	–	–	Nimonic PE16
–	NiCr 20 Co 16 MoTi	–	–	–	–	NC19KDUN	–	–	–	–	–	Nimonic PK33
–	–	–	NCF 3015	–	–	–	–	–	–	–	–	NiReVa 3015
AISI 686	–	–	–	–	–	–	–	–	–	–	–	R-235
AISI 690	–	–	–	–	–	Z6NKCDT38	–	–	–	–	–	Refractaloy 26
–	–	–	–	–	–	NK10C8W7ATaTD	–	–	–	–	–	René 125
–	–	–	–	–	–	NK15C14D6AWT	–	–	–	–	–	René 65
–	–	–	–	–	–	NC15K15ADT	–	–	–	–	–	René 77
–	–	–	–	–	–	NC14K9T5DWA	–	–	–	–	–	René 80
–	–	–	–	–	–	NC14K8	–	–	–	–	–	René 95
–	NiTa 9 Co 8 W 6 CrAl	–	–	–	–	NTa9K7C6W5A5DT	–	–	–	–	–	TRW VIA
–	NiCr 19 NbMo	–	–	–	–	NC18Fe18Nb6DWT	–	–	–	–	–	Udimet® 630
–	–	–	–	–	–	NCK18TDA	–	–	–	–	–	Udimet 710
–	–	–	–	–	–	NC18K15TDA	–	–	–	–	–	Udimet 720

S4 İş parçası malzeme listesi • Isıl dirençli alaşımlar • S4

S4 Titanyum ve Titanyum alaşımlar *Çekme mukavemeti RM (MPa)*: 900–1600* *Sertlik (HB): 300–400 (HRC): 33–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
R 50250	Ti-99.8	2 TA 1	–	UNS R50250	TA6, TA7, TA8, TA9	AIR:9182T35	–	–	–	ASTM B381F1	3.7025	ATI 30 CP Kalite 1
R 50400	Ti-99.7	2 TA 2-5	–	UNS R50400	TA2.5	AIR:9182T40	–	–	–	ASTM B381F2	3.7035	ATI 40 CP Kalite 2
–	SG-Ti 2	–	–	–	–	–	–	–	–	–	3.7036	–
R 50550	Ti-99.6	TA 3	–	UNS R50550	TA2, TA3, TA4, TA5	AIR:9182T50	–	–	–	ASTM B381F3	3.7055	ATI 55 CP Kalite 3
R 50700	Ti-99.5	2 TA 6-9	–	UNS R50700	–	AIR:9182T60	–	–	–	ASTM B381F4	3.7065	ATI 70 CP Kalite 4
–	TiNi 0,8 Mo 0,3	–	–	UNS R53400	–	–	–	–	Ti-3Al-1.5Mn	ASTM Kalite 12	3.7105	–
Ti 5Al-2.5Sn	TiAl 5 Sn 2,5	–	–	UNS R54520	TA 14,17	T-A5E	–	–	Ti-5Al-2.5Sn	–	3.7115	ATI Kalite 6
–	TiCu 2	2 TA 21-24	–	–	–	–	–	–	Ti-2Cu	–	3.7124	–
R 54620	TiAl 6 Sn 2 Zr 4 Mo 2 Si	–	–	UNS R54620	–	–	–	–	Ti-6Al-2Sn-2Zr-4Mo-2Si	–	3.7145	–
–	TiAl 6 ZrMo 0,5	TA 43	–	–	–	–	–	–	Ti-6-5-0.5	–	3.7155	–
R 56400	TiAl 6 V 4	TA 10-13	TC4	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V	–	–	Ti-6Al-4V	–	3.7164	ATI 6-4™
–	TiAl 6 V4	–	TC4	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V; AIR:9183	–	–	Ti-6Al-4V (Beta)	–	3.7164	–
R 56620	TiAl 6 V 6 Sn2	–	–	UNS R56620	–	–	–	–	Ti-6Al-6V-2Sn	–	3.7175	ATI 6-6-2™
–	TiAl 4 Mo 4 Sn 2	TA 45-51	–	–	–	–	–	–	Ti-4Al-4Mo-2Sn	–	3.7185	–
–	TiAl 3 V2.5	–	–	UNS R56320	–	–	–	–	Ti-3Al-2.5V	ASTM Kalite 9	3.7195	ATI 3-2.5-MIL™
R 52250	Ti 1 Pd	TP 1	–	UNS R 52250	–	–	–	–	–	ASTM Kalite 11	3.7225	–
R 52400	Ti 2 Pd	–	–	UNS R 52400	–	–	–	–	–	ASTM Kalite 7	3.7235	–
–	Ti 3 Pd	–	–	–	–	–	–	–	–	–	3.7255	–
–	TiAl 5 Fe 2,5	–	–	–	–	–	–	–	Ti-5Al-2.5Fe	–	3.7110	–
–	TiV13Cr11Al3	–	–	–	–	–	–	–	Ti-13V-11Cr-3Al	–	–	13.11.2003
–	Ti-10V-2Fe-3Al	–	–	–	–	–	–	–	Ti-10.2.3	–	–	ATI 10-2-3™
–	–	–	–	UNS R58153	–	–	–	–	Ti-15-333	–	–	ATI 15-333™
–	–	–	–	–	–	–	–	–	Ti-15Mo (Alpha + Beta)	–	–	ATI 15Mo™ (Alpha + Beta)
–	–	–	–	–	–	–	–	–	Ti-15Mo (Beta)	–	–	ATI 15Mo™ (Beta)
–	Ti5Al2Sn2Zr4Cr4Mo	–	–	UNS R58650	–	–	–	–	–	–	–	ATI 17™
–	TiAl 3 V 8 Cr 6 Mo 4 Z 4	–	–	–	–	–	–	–	Ti-3Al-8V-6Cr-4Mo-4Zr	ASTN Kalite 19	–	ATI 38-644™
–	–	–	–	UNS R54250	–	–	–	–	Ti-425	ASTM B265	–	ATI 425®
–	–	–	–	–	–	–	–	–	Ti-425 MIL	–	–	ATI 425®-MIL
–	TiAl 4 Mo 4 Sn 2 Si 0.5	–	–	–	5103	T-A4DE	–	–	Ti-4Al-4Mo-2Sn-0.5Si	–	–	ATI 4-4-2™
–	–	–	–	–	–	–	–	–	Ti-45Nb	–	–	ATI 45Nb™
–	–	–	–	–	–	–	–	–	Ti-5Al-5V-5Mo-3Cr	–	–	ATI 5-5-5-3 PM™
–	–	–	–	–	–	–	–	–	Ti-6Al-2Sn-2Zr-2Mn-2Cr-0.2Si	–	–	ATI 6-2222™
–	–	–	–	UNS R54620	–	–	–	–	Ti-6Al-4Zr-2Mo-2Sn	–	–	ATI 6-2-4-2 PM™
–	TiAl6Zr4Mo2Sn2	–	–	UNS R54620 modifiye	–	–	–	–	Ti-6Al-4Zr-2Mo-2Sn-0.2Si	–	–	ATI 6-2-4-2-Si PM™
–	–	–	–	UNS R56260	–	–	–	–	Ti-6-2-4-6	–	–	ATI 6-2-4-6™
–	–	–	–	UNS R56401	–	–	–	–	Ti-6Al-4V ELI	–	–	ATI 6-4 ELI™
–	TiAl 6 V4	–	–	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V; AIR:9183	–	–	Ti-6Al-4V MIL	–	–	ATI 6-4-MIL™
–	TiAl 6 V4	–	–	UNS R56400	TA10 TA11 TA12 TA13 TA28 TA56	TA6V; AIR:9183	–	–	Ti-6Al-4V MIL (HT)	–	–	ATI 6-4-MIL™
–	–	–	–	UNS R56700	–	–	–	–	Ti-6-7	ASTM F 1295	–	ATI 6-7™
–	TiAl8Mo1V1	–	–	UNS R54810	–	–	–	–	Ti-8Al-1Mo-1V	–	–	ATI 8-1-1™
–	–	–	–	–	–	–	–	–	Ti-15Mo-3Nb-3Al-0.2Si	ASTM Kalite 21	–	Beta 21-S
–	–	–	–	–	–	–	–	–	Ti-12Mo-6Zr-2Fe	–	–	TMZF
–	TiAl7Nb	–	–	–	–	–	–	–	Ti-6Al-7Nb	–	–	–
–	TiAl7Mo4	–	–	–	–	–	–	–	–	ASTM B381	–	–
–	TiAl 4 Mo 4 Sn 4 Si 0.5	–	–	–	5203	–	–	–	Ti-4Al-4Mo-4Sn-0.5Si	–	–	–
–	TiA6Zr5Mo0.5Si0.25	–	–	–	–	T.AGZ.50	–	–	Ti-6Al-5Zr-0.5Mo-0.25Si	–	–	–
–	TiAl6Zr5Mo4CuSi0.2	–	–	–	M201	–	–	–	Ti-6Al-5Zr-4Mo-Cu-0.2Si	–	–	–
–	–	–	TC18	–	–	–	–	–	Ti-5Al-5Mo-5V-1Cr-1Fe	–	–	–
–	–	–	–	UNS %58210	–	–	–	–	Ti Beta 21 S	ASTM Kalite 21	–	–
Ti 98.8	Ti 98.8	–	–	–	–	–	–	–	–	–	–	–
Ti 99.9	Ti 99.9	–	–	–	–	–	–	–	–	–	–	–
–	TiAL 6 Sn 2 Zr 4 Mo 2	–	–	–	–	–	–	–	–	–	–	–

NOT: Etiket için, bkz. sayfa Y217.

H1 İş parçası malzeme listesi • Sertleştirilmiş çelikler ve demirler • H1

H1 Sertleştirilmiş malzemeler *Sertlik (HRC): 44–48*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
H 11	X 38 CrMoV 5 H1	BH 11	SKD 6	T20811	X 38 CrMoV 5 H1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	–	–	–	1.2343	–
H11	X 38 CrMoV 5 H1	BH 11	SKD 6	T20811	X 38 CrMoV 5 H1	Z 38 CDV 5	X 37 CrMoV 5 1 KU	–	–	–	1.2343	–
H 13	X 40 CrMoV 5 1	BH 13	SKD 61	T20813	X 40 CrMoV 5 1	Z 40 CDV 5	X 40 CrMoV 5 1 1 KU	2242	–	–	1.2344	–
H 10	X 32 CrMoV 3 3	BH 10	SKD 7	T 20810	X 32 CrMoV 12H-28	32 DCV 28	30 CrMoV 12 27 KU	–	–	–	1.2365	–
H19	X 45 CrCoVW 5 5 5	–	–	–	–	–	–	–	–	–	1.2678	–
A 532 I B NiCr-LC	GX 260 NiCr 42	Kalite 2 A	0512-00	F45001	GJH-X260NiCr 4-2	–	–	0512-00	–	–	0.9620	–
L6	–	–	–	–	–	55 NCDV 07 (HT)	–	–	–	–	–	–

H2 İş parçası malzeme listesi • Sertleştirilmiş çelikler ve demirler • H2

H2 Sertleştirilmiş malzemeler *Sertlik (HRC): 48–55*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
A 532 I A NiCr-HC	G-X 330 NiCr 42	Kalite 2 B	0513-00	F45000	GJH-X330NiCr 4-2	FB Ni 4 Cr2 HC	–	0513-00	–	–	0.9625	–
H 21	X 30 WCrV 93	BH 21	SKD 5	T 20821	X 30 WCrV 9 3	Z 30 WCV 9	X 30 WCrV 9 3 KU	–	–	–	1.2581	–
H 12	X 37 CrMoW 5 1	BH 12	SKD 62	T20812	–	Z 35 CWDV 5	X 35 CrMoW 05 KU	–	–	–	1.2606	–
–	G-X 300 NiMo 3 Mg	–	–	–	GJH-X300NiMo 3 Mg	–	–	–	–	–	0.9610	–
A 532 I B NiCr-LC	GX 260 NiCr 42	Kalite 2 A	0512-00	F45001	GJH-X260NiCr 4-2	–	–	0512-00	–	–	0.9620	–
A 532 III A %5 Cr	GX 260 Cr 27	Kalite 3 D	0466-00	–	GJH-X260Cr 27	–	–	–	–	–	0.9650	–
–	X 2 NiCoMoTi 180905	–	–	–	–	Z 2 NKD 180905	–	–	–	–	–	Durimphy
K12	–	–	–	–	–	–	–	–	–	–	–	ATI K12 MIL

H3 İş parçası malzeme listesi • Sertleştirilmiş çelikler ve demirler • H3

H3 Sertleştirilmiş malzemeler *Sertlik (HRC): 56–60*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
A 532 IIC %15 CrMo-HC	G-X 300CrMo 15 3	Kalite 3 A	–	–	GJH-X300CrMo 15-3	–	–	–	–	–	0.9635	–
–	G-X 300 CrMoNi 15 2 1	Kalite 3 B	–	F45005	GJH-X300CrMoNi15-2-1	–	–	–	–	–	0.9640	–
A 532 IID%20 CrMo-LC	GX 260 CrMoNi 20 2 1	Kalite C 3	–	F45007	GJH-X260CrMoNi20-2-1	–	–	–	–	–	0.9645	–
A 532 III A %5 Cr	G-X 300 CrMo 27 1	Kalite 3 E	–	–	GJH-X300CrMo 27-1	–	–	–	–	–	0.9655	–
A 2	X 100 CrMoV 5 1	SKD 12	–	–	BA 2	Z 100 CDV 5 (HT)	X 100 CrMoV 51 KU	2260	–	–	1.2363	–
D7 (HT)	–	–	–	T30407	–	Z 230 CVA 12 04	–	–	–	–	1.2378	–
O 2	90 MnCrV 8	BO 2	–	T31502	90 MnV 8	90 MnV 8	90 MnVCr 8 KU	–	–	–	1.2842	–
A 532 I D Ni-HiCr	G-X 300 CrNiSi 95 2	Kalite C 2	0457-00	F45003	GJH-X300CrNiSi 9-5-2	–	–	–	–	–	0.9630	Nihard tip 4
S 1	60 WCrV 7	BS 1	–	–	6020 WCrV 8	55 WC 20	55 WCrV 8 KU	–	–	–	1.2550	–
S 1	60 WCrV 7	BS 1	–	–	60 WCrV 8	55 WC 20	55 WCrV 8 UK	–	–	–	1.2550	–
S 7	50 CrMoV 13 14	–	–	–	–	–	–	–	–	–	–	Cryodur 2357
K 12 (HT)	–	–	–	–	–	–	–	–	–	–	–	ATI K12-MIL

H4 İş parçası malzeme listesi • Sertleştirilmiş çelikler ve demirler • H4

H4 Sertleştirilmiş malzemeler *Sertlik (HRC): >60*

AISI**	DIN	BTS	JIS	UNS	EN	AFNOR	UNI	SIS	SAE	ASTM	Malzeme numarası	İmalatçı referansı
W 108	C 80 W 1	–	–	T72301	C 80 U	Y1 90	C 80 KU	1880	–	–	1.1525	–
D 2	X 155 CrVMo 12 1	BD 2	SKD §§	T 30402	X 153 CrMoV 12	Z 160 CDV 12	X 155 CrVMo 12 1 KU	2310	–	–	1.2379	–
–	100 WV4	–	SKS 21	–	–	–	–	–	–	–	1.2515	–
D 3	X 210 Cr 12	BD 3	SKD 1	T30403	X 210 Cr 1 2	Z 200 C 12	X 205 Cr 12 KU	–	–	–	1.2080	–
O 7	110 WCrV 5	–	–	–	–	–	–	–	–	–	–	–
–	Mh97 + Pb	–	–	–	–	–	–	–	–	–	–	LAW 100 Pb

İş parçası malzeme listesi kısaltma tanımları

* 1 Mpa = 145 psi.
** ASTM ve SAE malzeme özelliklerini içerir.
AISI — Amerikan Demir ve Çelik Enstitüsü
AFNOR — Fransa Uluslararası Standartlar Organizasyonu
AMS — Havacılık Malzeme Spesifikasyonları
ASTM — Amerika Makine Mühendisleri Birliği
BS — İngiliz Standartları
DIN — Almanya Standartlar Enstitüsü
EN — Avrupa Standartları
JIS — Japonya Endüstriyel Standartları
SAE — Otomotiv Mühendisleri Birliği
SIS — İsveç Standartlar Enstitüsü
UNI — İtalya Standartlar Organizasyonu
UNS — Tekdüze (Unified) numaralandırma sistemi

Hizmet ve Destek

Müşteri uygulama desteği (CAS)

En zorlu metal işleme sorunlarınıza, hızlı ve güvenilir yanıtlar alın

Müşteri uygulama desteği (CAS) ekibimiz, takımlama uygulaması çözümleri ve sorun çözümleme alanında metal işleme endüstrisinin lider yardım masası kaynağıdır.

Kanıtlanmış metal işleme uzmanlığına kolay erişim!

Kennametal Müşteri uygulama mühendisleri, dünyanın dört bir yanındaki müşteri ve mühendislik gruplarına, tüm Kennametal takımlarını kapsayan ürün programı için uzmanlık içeren takım seçimi ve uygulama önerileriyle yardımcı olur.

MÜKEMMEL HİZMET DÜZEYİ	Hızlı telefon yanıtı.
	Hızlı teknik çözümler.
	Etkin durum yönetimi.
HİZMETLER	İşletim parametreleri.
	En uygun duruma getirilmiş iş süreci.
	Donanım desteği.
	Takımlama seçimi.
	Sorun giderme.
SINIFININ EN İYİSİ DESTEK TAKIMLARI VE TEKNOLOJİ	Malzeme veri tabanı.
	Uygulama hesaplayıcıları.
	Takımlama performansı uzmanları.



Menşe ülke	Dil	Telefon	E-posta
Avustralya	İngilizce	1800 666 667	ap-kmt.techsupport@kennametal.com
Avusturya	Almanca	0800 202873	eu.techsupport@kennametal.com
Belçika	İngilizce/Fransızca	0800 80850	eu.techsupport@kennametal.com
Çin	Çince	400 889 2238	k-cn.techsupport@kennametal.com
Danimarka	İngilizce	808 89298	na.techsupport@kennametal.com
Finlandiya	İngilizce	0800 919412	na.techsupport@kennametal.com
Fransa	Fransızca	080 5540 367	eu.techsupport@kennametal.com
Almanya	Almanca	0800 0006651	eu.techsupport@kennametal.com
Hindistan	İngilizce	1 800 103 5227	in.techsupport@kennametal.com
İsrail	İngilizce	1809 449889	na.techsupport@kennametal.com
İtalya	İtalyanca	800 916561	eu.techsupport@kennametal.com
Japonya	İngilizce	03 3820 2855	ap-kmt.techsupport@kennametal.com
Kore (Güney)	İngilizce	+82 2 2100 6100	ap-kmt.techsupport@kennametal.com
Malezya	İngilizce	1800 812 990	ap-kmt.techsupport@kennametal.com
Meksika	İspanyolca	1800 253 0758	na.techsupport@kennametal.com
Hollanda	İngilizce	0800 0201 130	eu.techsupport@kennametal.com
Yeni Zelanda	İngilizce	0800 450 941	ap-kmt.techsupport@kennametal.com
Norveç	İngilizce	800 10080	na.techsupport@kennametal.com
Polonya	Lehçe	0080 04411887	eu.techsupport@kennametal.com
Rusya (sabit hat)	Rusça	8800 5556394	eu.techsupport@kennametal.com
Rusya (cep telefonu)	Rusça	+7 8005556394	eu.techsupport@kennametal.com
Singapur	İngilizce	1800 6221031	ap-kmt.techsupport@kennametal.com
Güney Afrika	İngilizce	0800 981643	na.techsupport@kennametal.com
İsveç	İngilizce	020799246	na.techsupport@kennametal.com
Tayvan	İngilizce	0800 666 197	ap-kmt.techsupport@kennametal.com
Tayland	İngilizce	1800 4417820	ap-kmt.techsupport@kennametal.com
Birleşik Krallık	İngilizce	0800 032 8339	na.techsupport@kennametal.com
Ukrayna	Rusça	0800502664	eu.techsupport@kennametal.com
ABD	İngilizce	800 835 3668	na.techsupport@kennametal.com

Gösterilen numaralar sadece listelenen ilgili ülkede hizmet vermektedir.

METAL KESME VE IŞLEME GÜVENLIĞI

ÖNEMLİ GÜVENLİK YÖNERGELERİ

Bu katalogda yer alana takımlar kullanılmadan önce okunmalıdır!

Fırlama ve parçalara ayrılma tehlikeleri:

Modern metal kesme ve işleme uygulamaları yüksek işmili ve kesici hızları ile yüksek ısı ve kesme kuvvetleri gerektirmektedir. Isınan talaşlar, metal işleme sırasında iş parçasından dışarı fırlayabilir. Kesici takımları, yüksek kesme kuvvetleri ve yüksek ısılara dayanacak şekilde tasarlanmış ve üretilmiş olsa da, özellikle aşırı gerilmelere, kritik darbelere veya diğer bir şekilde yanlış veya hatalı kullanıldıklarında parçalanabilirler.

Yaralanmaların önüne geçmek için:

- Metal işleme tezgahlarında veya bunların yakınında çalışırken her zaman, koruyucu gözlükler de dahil olmak üzere uygun kişisel koruyucu donanımlar kullanılır.
- Tüm tezgah korumalarının yerinde olduğundan her zaman emin olun.

Solunum ve cilt yoluyla temas tehlikeleri:

Karbür veya diğer gelişmiş kesici takım malzemelerinin bilenmesi sırasında toz veya buhar içeren metal parçacıklarının ortaya çıkmasına neden olur. Bu toz veya buharın, özellikle uzun süreli olarak solunulması, geçici veya kalıcı bir akciğer hastalığına veya mevcut sağlık durumunun kötüleşmesine neden olabilir. Bu toz veya buharla temas halinde gözler, cilt ve mukoza zarlarını tahriş olabilir ve mevcut cilt sorunları kötüleşebilir.

Yaralanmaların önüne geçmek için:

- Bileme sırasında her zaman koruyucu solunum maskeleri ve gözlükler takılır.
- Havalandırma kontrolü sağlanır ve bileme sonucu oluşan toz, buhar ya da atıklar uygun şekilde ortamdan uzaklastırılır.
- Cildin toz veya buharla temas etmesi önlenir.

Daha fazla bilgi için, Kennametal tarafından sağlanan ilgili Malzeme güvenlik bilgisi formu okunmalı ve Federal Yönetmelikler yasasının bölüm 1910, 29. başlığı altında yayımlanan, Genel endüstri güvenlik ve sağlık düzenlemelerine bakılmalıdır.

Bu güvenlik yönergeleri genel yol gösterici bilgiyi kapsar. İşleme uygulamalarını birçok değişken etkiler. Özel durumların her birini tek tek ele alma olanağı yoktur. Bu katalogda yer alan teknik bilgi ve ve işleme uygulamalarıyla ilgili öneriler kişisel belirli bir işlem için geçerli olmayabilir. Daha fazla bilgi için, Kennametal' in 724 539 5747 numaralı telefon veya 724 539 5439 numaralı faks. aracılığıyla ücretsiz olarak edinebileceğiniz Metal kesme ve işleme güvenliği kitapçığına bakınız. Ürün güvenliği ve çevreyle ilgili özellik içeren sorular için, 724 539 5066 numaralı telefon veya 724 539 5372 numaralı fakstan Kurumsal Çevre sağlığı ve güvenliği ofisimizle iletişme geçiniz.

Kennametal, genelleştirilmiş K, A2, A4, AluMill, Beyond, Beyond Blast, Beyond Drive, Beyond Evolution, Blue Box, CTR, DFC, DFR, DFS, DFSP, DFT, Dodeka, Dodeka MAX, Drill Fix, ERCKSON, Fix-Perfect, GOdrill, GOmill, GOtap, Green Box, HARVI, HexaCut, HTS, HydroForce, K10, K715, KB1345, KB5630, KBK45, KC5010, KC5025, KC522M, KC625M, KC633M, KC635M, KC637M, KC639M, KC643M, KC7135, KC7210, KC7225, KC725M, KC7315, KC7320, KC7325, KC7410, KC9105, KCK10, KCM15, KCMS, KCMS35, KCN05, KCP15, KCPK10, KCPK15, KCPK20, KCPK30, KCPM15, KCPM40, KCPM45, KCSM15, KCU10, KCU25, KCU40, KCU45, KD1400, KD1405, KD1415, KD1420, KD1425, KDF400, KDMB, KDMT, KenClamp, Kendex, KenFeed, Kenlever, Kenloc, Kenna Perfect, Kenna Universal, KenTIP, KF1, KGEM, KIPR, K-Lock, KM, KM25, KM40, KM40TS, KM4X, KM4X100, KM-TS, KN25, KNS, KP6505, KP6525, KSCM, KSEM, KSEM PLUS, KSOM, KSRM, KSSM, KSSM8+, KSSR, KSSS, KTMS, KTP10, KU25T, KVNS, KY1310, KY3500, KYK10, KYK25, KYS40, Load Optimised Insert Spacing, MaxiMet, MEGA, Mill 1-7, Mill 1-10, Mill 1-14, Mill 1-18, Mill 1-25, Mill 4, Mill 4-11, Mill 4-15, Mill 16, ModBORE, NOVO, RIQ, RHR, Rodeka, Romicron, RMS, SIF, SEFAS, Stellite, Stellram, Top Notch, Wedgelock, X-Grade ve Y-TECH, Kennametal, Inc. firmasının ticari markalarıdır ve bu burada tanımlandığı şekilde kullanılmaktadır. Bu listede bir ürün, hizmet adı veya logo yer almıyorsa bu durum, o ad ya da logoyla ilgili Kennametal ticari marka ya da diğer fikri mülkiyet haklarından feragat edildiği anlamına gelmez.

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