

TORNALAMA TURNING

2026 | CATALOG

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İçindekiler

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Önizleme - İç Çap Torna Katerleri
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B58

S Tipi Katerler
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B59

C Tipi Katerler
C Type Tool Holder

B65

T Tipi Katerler
T Type Tool Holder

B65

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TORNALAMA UÇLARININ KOD SİSTEMİ (ISO)

TURNING INSERT CODE SYSTEM (ISO)

C

N

M

G

12

04

08

PM

1

2

3

4

5

6

7

8

Kesici Uç Şekli
Insert Shape

Kesici Uç Boşluk Açısı
Relief Angle

Tolerans
Tolerance

Kesit Tipi
Cross Section Type

Kesme Kenar Uzunluğu
Cutting Edge Length,
Diameter Of Inscribed Circle

Kesici Uç Kalınlığı
Height of Cutting Edge

Köşe Radyüsü
Nose Radius
(Nose R)

Talaş Kırıcı Form
Chip Breaker for Turning

1 Kesici Uç Şekli / Insert Shape

C N M G 12 04 08 PM

C D E K L

R S T V W

2 Kesici Uç Boşluk Açısı / Relief Angle

C N M G 12 04 08 PM

B C D E

F N P O

4 Kesit Tipi / Cross Section Type

C N M G 12 04 08 PM

A B C

F G H

J M N

Q R T

U W X

3 Tolerans / Tolerance

C N M G 12 04 08 PM

d m t

| Sınıf / Class | d | m | t |
|---------------|--------------|--------------|---------|
| A | ± 0.025 | ± 0.005 | ± 0.025 |
| 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 |
| J* | ± 0.05-±0.15 | ± 0.005 | ± 0.025 |
| K* | ± 0.05-±0.15 | ± 0.013 | ± 0.025 |
| L* | ± 0.05-±0.15 | ± 0.025 | ± 0.025 |
| M* | ± 0.05-±0.15 | ± 0.08-±0.20 | ± 0.13 |
| N* | ± 0.05-±0.15 | ± 0.08-±0.18 | ± 0.025 |
| U* | ± 0.08-±0.25 | ± 0.13-±0.38 | ± 0.13 |

* Kenarları taşlanmamış kesici uçlar içindir.
*Sides are based on unground insert

C, E, H, M, O, P, R, S, T, W Tipi Kesici Uçların Toleransları (Özel Durumlar)
Tolerance on C, E, H, M, O, P, R, S, T, W Insert Shape (Exceptional Case)

| d | Tolerans / Tolerance d | | Tolerans / Tolerance m | |
|--------|------------------------|--------|------------------------|--------|
| | J, K, L, M, N | U | M, N | U |
| 6.35 | ± 0.05 | ± 0.08 | ± 0.08 | ± 0.13 |
| 9.525 | ± 0.05 | ± 0.08 | ± 0.08 | ± 0.13 |
| 12.7 | ± 0.08 | ± 0.13 | ± 0.13 | ± 0.20 |
| 15.875 | ± 0.10 | ± 0.18 | ± 0.15 | ± 0.27 |
| 19.05 | ± 0.10 | ± 0.18 | ± 0.15 | ± 0.27 |
| 25.4 | ± 0.13 | ± 0.25 | ± 0.18 | ± 0.38 |

D Tipi Kesici Uçların Toleransları (Özel Durumlar)
Tolerance on D Insert Shape (Exceptional Case)

| d | Tolerans / Tolerance d | | Tolerans / Tolerance m | |
|--------|------------------------|--------|------------------------|--------|
| | 6.35 | ± 0.05 | | ± 0.11 |
| 9.525 | ± 0.05 | | ± 0.11 | |
| 12.7 | ± 0.08 | | ± 0.15 | |
| 15.875 | ± 0.10 | | ± 0.18 | |
| 19.05 | ± 0.10 | | ± 0.18 | |

TORNALAMA UÇLARININ KOD SİSTEMİ (ISO)

TURNING INSERT CODE SYSTEM (ISO)

C

N

M

G

12

04

08

PM

1

Kesici Uç Şekli
Insert Shape

2

Kesici Uç
Boşluk Açısı
Relief Angle

3

Tolerans
Tolerance

4

Kesit Tipi
Cross Section Type

5

Kesme Kenar
Uzunluğu
Cutting Edge Length,
Diameter Of Inscribed Circle

6

Kesici Uç Kalınlığı
Height of Cutting Edge

7

Köşe Radyüsü
Nose Radius
(Nose R)

8

Talaş Kırıcı Form
Chip Breaker for Turning

5 Kesme Kenar Uzunluğu

Cutting Edge Length, Diam. of Inscribed Circle

C N M G 12 04 08 PM

| Metrik / Metric | | | | | | İnç / Inch | d(mm) |
|-----------------|----|----|----|----|----|------------|--------|
| 04 | 03 | 06 | 03 | - | 02 | 1.2 (5) | 3.97 |
| 05 | 04 | 08 | 04 | 08 | S3 | 1.5 (6) | 4.76 |
| 06 | 05 | 09 | 05 | 09 | 03 | 1.8 (7) | 5.56 |
| - | - | - | 06 | - | - | - | 6.00 |
| 07 | 06 | 11 | 06 | 11 | 04 | 2 | 6.35 |
| 09 | 07 | 13 | 07 | 13 | 05 | 2.5 | 7.94 |
| - | - | - | 08 | - | - | - | 8.00 |
| 11 | 09 | 16 | 09 | 16 | 06 | 3 | 9.525 |
| - | - | - | 10 | - | - | - | 10.00 |
| 13 | 11 | 19 | 11 | 19 | 07 | 3.5 | 11.11 |
| - | - | - | 12 | - | - | - | 12.00 |
| 15 | 12 | 22 | 12 | 22 | 08 | 4 | 12.70 |
| 17 | 14 | 24 | 14 | 24 | 09 | 4.5 | 14.29 |
| 19 | 15 | 27 | 15 | 27 | 10 | 5 | 15.875 |
| - | - | - | 16 | - | - | - | 16.00 |
| 21 | 17 | 30 | 17 | 30 | 11 | 5.5 | 17.46 |
| 23 | 19 | 33 | 19 | 33 | 13 | 6 | 19.05 |
| - | - | - | 20 | - | - | - | 20.00 |
| 27 | 22 | 38 | 22 | 38 | 15 | 7 | 22.225 |
| - | - | - | 25 | - | - | - | 25.00 |
| 31 | 25 | 44 | 25 | 44 | 17 | 8 | 25.40 |
| 38 | 31 | 54 | 31 | 54 | 21 | 10 | 31.75 |
| - | - | - | 32 | - | - | - | 32.00 |

6 Kesici Uç Kalınlığı

Height of Cutting Edge

C N M G 12 04 08 PM

| Sembol / Symbol | | Kesme kenarın yüksekliği (t) Height of Cutting Edge (t) | |
|-----------------|------------|--|------------|
| Metrik / Metric | İnç / Inch | mm | İnç / Inch |
| 01 | 1(2) | 1.59 | 1/16 |
| T0 | 1.125 | 1.79 | 9/128 |
| T1 | 1.2 | 1.98 | 5/64 |
| 02 | 1.5(3) | 2.38 | 3/32 |
| T2 | 1.75 | 2.78 | 7/64 |
| 03 | 2 | 3.18 | 1/8 |
| T3 | 2.5 | 3.97 | 5/32 |
| 04 | 3 | 4.76 | 3/16 |
| 05 | 3.5 | 5.56 | 7/32 |
| 06 | 4 | 6.35 | 1/4 |
| 07 | 5 | 7.94 | 5/16 |
| 09 | 6 | 9.52 | 3/8 |
| 11 | 7 | 11.11 | 7/16 |
| 12 | 8 | 12.70 | 1/2 |

8 Köşe Radyüsü / Nose Radius (Nose R)

C N M G 12 04 08 PM

| Sembol Symbol | | Köşe Radyüsü Corner Radius | |
|------------------|-------------|-------------------------------|-------------|
| Metrik Metric | İnç Inch | Metrik Metric | İnç Inch |
| 003 | 0.1 | 0.03 | 0.001 |
| 005 | 0.13 | 0.05 | 0.002 |
| | 0.2 | 0.1 | 0.004 |
| | 0.5 | 0.2 | 0.008 |
| | 1 | 0.4 | 1/64 |
| | 2 | 0.8 | 1/32 |
| | 3 | 1.2 | 3/64 |
| M0 | 4 | 1.6 | 1/16 |
| | 5 | 2.0 | 5/64 |
| | 6 | 2.4 | 3/32 |
| | 7 | 2.8 | 7/64 |
| | 8 | 3.2 | 1/8 |
| | - | - | - |
| | - | - | - |

9 Talaş Kırıcı Form

Chip Breaker for Turning

C N M G 12 04 08 PM

ISO Değiştirilebilir Uçlar - Pozitif / ISO Indexable Inserts - Positive

ISO Değiştirilebilir Uçlar - Negatif / ISO Indexable Inserts - Negative

NEGATİF TALAŞ KIRICILAR

NEGATIVE CHIPBREAKERS

| Geometri Geometry | Özellikler Properties | Malzeme Grubu / Material group | | | | | | Kesme Kenarı Profili View of Cutting Edge | Temel Kesme Değerleri Diyagramı Basic cutting data diagram | Mevcut Geometrilere Available Geometries |
|----------------------|--|--------------------------------|---|---|---|---|---|--|---|--|
| | | P | M | K | N | S | H | | | |
| PBI | <p>Çelik finiş ve yarı finiş tornalama için talaş kırıcıdır. Düşük kesme kuvvetleri sayesinde ince ve zayıf parçalar için uygundur.</p> <p><i>Chipbreaker for steel finishing to semi-finishing. Low cutting forces, ideal for slender or thin-walled parts.</i></p> | ● | | | | | | | | CNMG DNMG SNMG TNMG VNMG WNMG |
| P83 | <p>Çelik yarı finiş tornalama için talaş kırıcıdır. Pozitif açılı kesme kuvvetini azaltır ve profil ile omuz tornalamada iyi talaş kontrolü sağlar.</p> <p><i>Chipbreaker for steel semi-finishing. Positive rake design reduces cutting forces and provides good chip control in profile and shoulder turning.</i></p> | ● | | | | | | | CNMG DNMG WNMG | |
| EF1 | <p>Orta kaba işleme için uygundur. Tok çeliklerde ve alın tornalamada iyi talaş kontrolü sağlar.</p> <p><i>Suitable for finishing of steel, especially forged steel where small workpieces is machined and good chip control is needed.</i></p> | ● | | | | | | | DNMG VNMG | |
| EF2 | <p>Paslanmaz çeliğin orta tornalama işlemleri için uygundur. Stabil kesme performansı ve etkili talaş kontrolü sağlar.</p> <p><i>Suitable for finishing and semi finishing of stainless steel. Provides stable cutting performance and effective chip control.</i></p> | | ● | | | | | | SNMG TNMG VNMG | |
| EF3 | <p>Yumuşak çelik finiş işlemleri için ilk tercihtir. Etkili talaş kontrolü sağlar.</p> <p><i>First choice for finishing mild steel. Provides effective chip control.</i></p> | ● | | | | | | | DNMG TNMG WNMG | |
| SF1 | <p>Keskin kesme kenarı tasarımı yığıntı talaş oluşumunu azaltır. İşleme sırasında stabil talaş tahliyesi sağlar.</p> <p><i>Sharp cutting edge design reduces built-up edge formation. Ensures stable chip evacuation during machining.</i></p> | | ● | | | ● | | | CNMG DNMG SNMG TNMG VNMG WNMG | |
| MBZ | <p>Paslanmaz çelik finiş tornalama için talaş kırıcıdır. Yüksek pozitif açılı kesme kuvvetini ve yığıntı talaşını azaltarak iyi yüzey kalitesi sağlar.</p> <p><i>Chipbreaker for stainless steel finishing. High positive rake reduces cutting force and built-up edge, providing good surface quality.</i></p> | | ● | | | ● | | | CNMG DNMG SNMG VNMG WNMG | |
| SCB | <p>Isıya dayanıklı alaşımlar ve titanyum alaşımlarının orta tornalaması için talaş kırıcıdır. Büyük açılı ve dar land yapısı kolay kesme ve düşük kesme kuvveti sağlar.</p> <p><i>Chipbreaker for medium turning of heat-resistant and titanium alloys. Large rake angle and small land width provide smooth cutting and low cutting forces.</i></p> | | ● | | | ● | | | CNMG DNMG SNMG TNMG VNMG WNMG | |

● 1st Choice ○ 2nd Choice

NEGATİF TALAŞ KIRICILAR

NEGATIVE CHIPBREAKERS

| Geometri Geometry | Özellikler Properties | Malzeme Grubu / Material group | | | | | | Kesme Kenarı Profili View of Cutting Edge | Temel Kesme Değerleri Diyagramı Basic cutting data diagram | Mevcut Geometrilere Available Geometries |
|----------------------|--|--------------------------------|---|---|---|---|---|--|---|--|
| | | P | M | K | N | S | H | | | |
| AL | Alüminyum sürekli tornalama için tasarlanmıştır. Yüksek açısı sayesinde kolay kesme ve uzun takım ömrü sağlar. Yüksek ilerlemeli finiş işlemleri için uygundur. <i>Designed for continuous turning of aluminum. High rake angle ensures smooth cutting and long tool life. Suitable for finishing with high feed.</i> | ○ | ○ | ● | ● | ○ | ○ | | | DNMG SNMG TNMG VNMG WNMG |
| ES1 | Farklı kesme derinliklerinde iyi talaş kontrolü sağlar. Alın tornalama işlemleri için uygundur. <i>Good chip control at various depths of cut. Suitable for facing turning.</i> | ● | ○ | ○ | ○ | ○ | ○ | | | DNMG TNMG VNMG CNMG |
| MA | Karbon çeliği ve alaşımlı çeliklerin orta işleme operasyonları için ilk tercihtir. Pozitif land tasarımı keskin ve stabil kesme sağlar. <i>First choice for medium machining of carbon and alloy steels. Positive land design ensures sharp and stable cutting.</i> | ● | ● | ○ | ○ | ○ | ○ | | | CNMG TNMG VNMG WNMG |
| ST | Dökme demirin orta işleme operasyonları için ilk tercihtir. Çeliğin orta işleme işlemlerinde de kullanılabilir. <i>First choice for medium machining of cast iron. Also suitable for medium machining of steel.</i> | ○ | ○ | ● | ○ | ○ | ○ | | | CNMG DNMG SNMG TNMG VNMG WNMG |
| PM1 | Çeliğin ve dökme demirin orta işleme operasyonları için uygundur. Stabil kesme performansı sağlar. <i>Suitable for medium machining of steel and cast iron. Provides stable cutting performance.</i> | ● | ○ | ● | ○ | ○ | ○ | | | CNMG DNMG SNMG TNMG WNMG |
| TM | Orta ve kaba işleme için talaş kırıcıdır. Orta ve yüksek ilerlemelerde stabil talaş kontrolü sağlar. <i>Chipbreaker for medium to rough machining. Designed for stable chip control at medium to high feed rates.</i> | ● | ○ | ○ | ○ | ○ | ○ | | | CNMG DNMG SNMG TNMG VNMG WNMG |
| PD | Çelik orta tornalama için talaş kırıcıdır. Çift açısı tasarımı keskin kesme kenarı, düşük kesme kuvveti ve güvenilir talaş kontrolü sağlar. <i>Chipbreaker for steel medium turning. Double rake design provides sharp cutting edges, low cutting forces, and reliable chip control.</i> | ● | ○ | ○ | ○ | ○ | ○ | | | CNMG DNMG SNMG TNMG VNMG WNMG |
| SM1 | Stabil talaş tahliyesi sağlar. Değişken land tasarımı krater aşınmasına karşı direnci artırarak takım ömrünü uzatır. <i>Ensures stable chip evacuation. Variable land design improves crater wear resistance and tool life.</i> | ○ | ● | ○ | ○ | ○ | ○ | | | CNMG DNMG SNMG TNMG VNMG WNMG |

● 1st Choice ○ 2nd Choice

NEGATİF TALAŞ KIRICILAR

NEGATIVE CHIPBREAKERS

| Geometri Geometry | Özellikler Properties | Malzeme Grubu / Material group | | | | | | Kesme Kenarı Profili View of Cutting Edge | Temel Kesme Değerleri Diyagramı Basic cutting data diagram | Mevcut Geometrilere Available Geometries |
|----------------------|---|--------------------------------|---|---|---|---|---|--|---|--|
| | | P | M | K | N | S | H | | | |
| EM2 | M tipi malzemelerin yan finiş işlemleri için önerilen talaş kırıcıdır. Çift taraflı tasarım paslanmaz çelik işlemede talaş kontrolünü iyileştirir ve yapışmayı azaltır. <i>Recommended chipbreaker for semi-finishing of M-type materials. Double-sided design improves chip control and reduces adhesion when machining stainless steel.</i> | | ● | | | | | | | SNMG TNMG |
| KR | Karbon çeliği, alaşımli çelik ve dökme demirin kaba işleme operasyonları için alternatif talaş kırıcıdır. Kesintili kesmeler ve yüksek ilerlemeler için uygundur. <i>Alternative chipbreaker for rough machining of carbon steel, alloy steel and cast iron. Suitable for interrupted cutting and high feed rates.</i> | | ○ | ● | | | | | | CNMG DNMG SNMG TNMG VNMG WNMG |
| KCA | Dökme demir tornalama için talaş kırıcıdır. Güçlü kesme kenarı stabil ve güvenilir işleme performansı sağlar. <i>Chipbreaker for cast iron turning. Strong cutting edge ensures stable and reliable machining performance.</i> | | | ● | | | | | | CNMG DNMG SNMG TNMG VNMG WNMG |
| SR1 | Zorlu uygulamalar için yüksek kesme kenarı dayanımı sağlar. Derin kesme derinliği operasyonları için tasarlanmıştır. <i>High cutting edge strength for demanding applications. Designed for deep depth-of-cut machining.</i> | | ● | | | | | | | CNMG DNMG SNMG TNMG WNMG |
| MCA | Paslanmaz çelik ve ısıya dayanıklı alaşımların kaba tornalaması için alternatif talaş kırıcıdır. Geniş talaş kırıcı geometrisi iyi talaş tahliyesi ve yüksek talaş kaldırma sağlar. <i>Alternative chipbreaker for rough turning of stainless steel and heat-resistant alloys. Large chipbreaker geometry ensures good chip evacuation and high metal removal.</i> | ● | | | | | | | | CNMG DNMG SNMG TNMG WNMG |
| PDS | Çelik kaba tornalama için alternatif talaş kırıcıdır. Güçlü kesme kenarı, düşük kesme kuvveti ve iyi talaş kontrolü sağlar. <i>Alternative chipbreaker for steel rough turning. Strong cutting edge with low cutting force and good chip control.</i> | ● | | | | | | | | CNMG DNMG WNMG |
| PR | Orta ve kaba işleme için talaş kırıcıdır. Yüksek ilerleme ve derin kesme şartlarında stabil kesme ve güvenilir talaş kontrolü sağlar. <i>Chipbreaker for medium to rough machining. Designed for stable cutting at higher feed rates and deeper depths of cut, providing reliable chip control.</i> | ● | | ○ | | | | | | CNMG LNMX SNMG |
| PF | Düşük kesme kuvveti sağlayan pozitif geometri ile stabil işleme performansı sunar. Orta talaş kaldırma operasyonlarında güvenilir talaş kontrolü ve iyi yüzey kalitesi sağlar. <i>Positive geometry ensures low cutting forces and stable machining performance. Provides reliable chip control and good surface finish in medium machining applications.</i> | ○ | | | | | | | | LNMX |

● 1st Choice ○ 2nd Choice

POZİTİF TALAŞ KIRICILAR

POSITIVE CHIPBREAKERS

| Geometri Geometry | Özellikler Properties | Malzeme Grubu / Material group | | | | | | Kesme Kenarı Profili View of Cutting Edge | Application Range Uygulama Alanı | Mevcut Geometrilere Available Geometries |
|----------------------|---|--------------------------------|---|---|---|---|---|--|-------------------------------------|--|
| | | P | M | K | N | S | H | | | |
| UF | Isıya dayanıklı alaşımların tormalaması için ilk tercihtir. Taşlanmış kenarlar hassas konumlama ve yüksek işleme doğruluğu sağlar. First choice for turning heat-resistant alloys. Ground edges provide precise positioning and high machining accuracy. | ○ | ● | | | ● | | | | CCGT DCGT TCGT VBGT |
| AL1 | Alüminyum sürekli tormalama için tasarlanmıştır. Yüksek açılı kesme ve uzun takım ömrü sağlar. Yüksek ilerlemeli finiş işlemleri için uygundur. Designed for aluminum continuous turning. High rake angle ensures smooth cutting and long tool life. Suitable for finishing with high feed. | | | | ● | | | | | CCGT DCGT RCGT SCGT TCGT VBGT VCGT |
| PBI | Çelik finiş tormalama için ilk tercihtir. Pozitif açılı kesme kuvvetini ve yığıntı talaşı azaltarak yüzey kalitesini ve takım ömrünü artırır. Paslanmaz çelik tormalamada da kullanılabilir. Ideal for steel finishing. Positive rake reduces cutting forces and built-up edge, improving surface finish and tool life. Also suitable for stainless steel turning. | ● | ● | | | ● | | | | CCMT DCMT SCMT VBMT VCMT |
| EF2 | Paslanmaz çeliğin finiş işleme operasyonları için uygundur. Suitable for finishing operations on stainless steel. | | ● | | | ○ | | | | CCMT DCMT SCMT TCMT VBMT |
| SF1 | Keskin kesme kenarı tasarımı yığıntı talaşı azaltır ve stabil talaş tahliyesi sağlar. Sharp edge design reduces built-up edge and ensures stable chip evacuation. | | ● | | | ● | | | | CCMT DCMT SCMT TCMT VBMT VCMT |
| PCZ | Çelik ve paslanmaz çeliğin yarı finiş tormalama işlemleri için ilk tercihtir. Keskin geometri düşük kesme kuvveti ve güvenilir talaş kontrolü sağlar. First choice for semi-finishing of steel and stainless steel. Sharp geometry ensures low cutting forces and reliable chip control. | ● | ● | | | ● | | | | CCMT DCMT SCMT TCMT VBMT VCMT |
| HM | Çeliğin orta işleme operasyonları için uygundur. Suitable for medium machining of steel and cast iron. | ● | | ● | | | | | | CCMT DCMT SCMT TCMT VBMT |
| SM1 | Stabil talaş tahliyesi sağlar. Değişken land tasarımı krater aşınmasına karşı direnci artırır. Provides stable chip evacuation. Variable land design improves resistance to crater wear. | | ● | | | ● | | | | CCMT DCMT SCMT TCMT VBMT |
| KCZ | Çelik, paslanmaz çelik ve dökme demir tormalama için genel amaçlı talaş kırıcıdır. Orta ve kaba işleme için uygundur ve geniş uygulama alanına sahiptir. General-purpose chipbreaker for turning steel, stainless steel and cast iron. Suitable for medium to rough machining with wide application range. | ● | ● | ● | | | | | | CCMT DCMT SCMT TCMT VBMT |

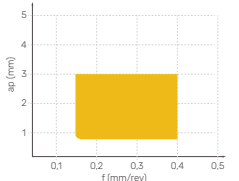
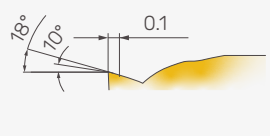
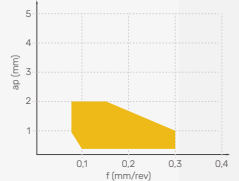
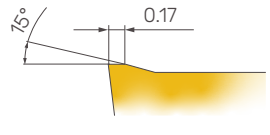
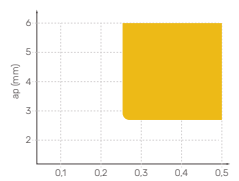
● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

POZİTİF TALAŞ KIRICILAR

POSITIVE CHIPBREAKERS

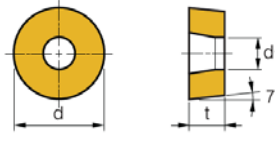
| Geometri Geometry | Özellikler Properties | Malzeme Grubu / Material group | | | | | | Kesme Kenarı Profili View of Cutting Edge | Application Range Uygulama Alanı | Mevcut Geometriler Available Geometries |
|----------------------|---|--------------------------------|---|---|---|---|--|---|---|--|
| | | P | M | K | N | S | H | | | |
| ST | <p>Dökme demirin orta tornalama operasyonları için ilk tercihtir. Stabil kesme performansı ve etkili talaş kontrolü sağlar.</p> <p>First choice for medium turning of cast iron. Provides stable cutting performance and effective chip control.</p> | ○ | | ● | | | |  |  | <p>CCMT DCMT SCMT TCMT</p> |
| VM | <p>Çelik ve paslanmaz çeliğin orta işleme operasyonları için alternatif talaş kırıcıdır. Pozitif geometri keskin kesme ve iyi talaş kontrolü sağlar.</p> <p>Alternative chipbreaker for medium machining of steel and stainless steel. Positive geometry ensures sharp cutting and good chip control.</p> | ● | ● | | | |  |  | <p>DCMT</p> | |
| HR | <p>Çeliğin kaba işleme operasyonları için uygundur. Ağır kesme şartlarında stabil kesme performansı sağlar.</p> <p>Suitable for rough machining of steel. Provides stable cutting performance in heavy cutting conditions.</p> | ● | | ○ | | |  |  | <p>TCMT</p> | |

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

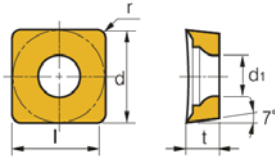
RC...



| Ölçüler - Dimensions | | | | |
|----------------------|------|------|----------------|--|
| Ölçü - Dimension | d | t | d ₁ | |
| 8 | 8.0 | 3.18 | 3.35 | |
| 10 | 10.0 | 3.18 | 3.6 | |
| 12 | 12.0 | 4.76 | 4.2 | |
| 16 | 16.0 | 6.35 | 5.2 | |

| Ürün Görseli Insert Shape | CB | Ürün Kodu Insert Code | ISO | | P | | | | | M | | | | | K | | | N | S | | | | U | | | | | | | | | |
|------------------------------|------|--------------------------|----------|--------------------------|------------------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|------------|--------------|--------------|--------------|--------------|--------------|-----------|-----------|-----------|-----------|--------|--------|--------|--------|--------|--------|--|
| | | | ap (mm) | Vc (m/dak) (m/min) | 350(100-600) | 300(220-400) | 300(220-400) | 240(200-320) | 240(200-320) | 145(45-250) | 190(130-250) | 180(120-250) | 160(120-200) | 150(110-200) | 130(100-160) | 90(70-110) | 300(220-360) | 300(220-360) | 240(180-300) | 240(180-300) | 600(450-750) | 50(30-90) | 45(30-60) | 45(30-60) | 45(30-60) | | | | | | | |
| | | | | | fn(mm/dev) (mm/rev) | TC0105 | TC0115 | TC2115 | TC0125 | TC1125 | TC2135 | TC1310 | TC1320 | TP4310 | TP4320 | TP4330 | TP4340 | TC2210 | TC0210 | TC2215 | TC0215 | TN7501 | TP2405 | TP2410 | TP4410 | TP2430 | TP2620 | TP3620 | TP2630 | TP3630 | TP4630 | |
| | AL1 | RCGT 0602M0 | 0.50-2.0 | 0.05-0.20 | | | | | | | | | | | | | | | | o | | | | | | | | | | | | |
| | | RCGT 0803M0 | 0.5-2.5 | 0.05-0.25 | | | | | | | | | | | | | | | | | • | | | | | | | | | | | |
| | | RCGT 1003M0 | 1.0-3.0 | 0.10-0.30 | | | | | | | | | | | | | | | | | • | | | | | | | | | | | |
| | | RCGT 1204M0 | 1.0-3.50 | 0.10-0.35 | | | | | | | | | | | | | | | | | o | | | | | | | | | | | |
| | RCMX | RCTX 0803M0 | 0.80-3.0 | 0.05-0.30 | | | | | | | | | | | | | | | | o | | | | | | | | | | | | |
| | | RCTX 1003M0 | 1.50-4.0 | 0.25-0.50 | | | | | | | | | | | | | | | | | • | | | | | | | | | | | |
| | | RCTX 1204M0 | 2.50-5.0 | 0.30-0.60 | | | | | | | | | | | | | | | | | o | | | | | | | | | | | |
| | | RCTX 1606M0 | 3.00-7.0 | 0.40-0.75 | | | | | | | | | | | | | | | | | • | | | | | | | | | | | |
| | | RCTX 2006M0 | 3.50-9.0 | 0.48-0.90 | | | | | | | | | | | | | | | | | • | | | | | | | | | | | |
| | | RCTX 2507M0 | 4.0-12.0 | 0.55-1.20 | | | | | | | | | | | | | | | | | o | | | | | | | | | | | |
| | | RCTX 3209M0 | 5.0-15.0 | 0.65-1.50 | | | | | | | | | | | | | | | | | o | | | | | | | | | | | |

SC...



| Ölçüler - Dimensions | | | | |
|----------------------|-------|------|----------------|--|
| Ölçü - Dimension | d | t | d ₁ | |
| 09 | 9.525 | 3.97 | 4.4 | |
| 12 | 12.7 | 4.76 | 5.5 | |

| Ürün Görseli Insert Shape | CB | Ürün Kodu Insert Code | ISO | | P | | | | | M | | | | | K | | | N | S | | | | U | | | | | | | | | |
|------------------------------|-----|--------------------------|-----------|--------------------------|------------------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|------------|--------------|--------------|--------------|--------------|--------------|-----------|-----------|-----------|-----------|--------|--------|--------|--------|--------|--------|--|
| | | | ap (mm) | Vc (m/dak) (m/min) | 350(100-600) | 300(220-400) | 300(220-400) | 240(200-320) | 240(200-320) | 145(45-250) | 190(130-250) | 180(120-250) | 160(120-200) | 150(110-200) | 130(100-160) | 90(70-110) | 300(220-360) | 300(220-360) | 240(180-300) | 240(180-300) | 600(450-750) | 50(30-90) | 45(30-60) | 45(30-60) | 45(30-60) | | | | | | | |
| | | | | | fn(mm/dev) (mm/rev) | TC0105 | TC0115 | TC2115 | TC0125 | TC1125 | TC2135 | TC1310 | TC1320 | TP4310 | TP4320 | TP4330 | TP4340 | TC2210 | TC0210 | TC2215 | TC0215 | TN7501 | TP2405 | TP2410 | TP4410 | TP2430 | TP2620 | TP3620 | TP2630 | TP3630 | TP4630 | |
| | AL1 | SCGT 09T302 | 0.10-4.00 | 0.02-0.30 | | | | | | | | | | | | | | | | o | | | | | | | | | | | | |
| | | SCGT 09T304 | 0.10-5.00 | 0.04-0.40 | | | | | | | | | | | | | | | | | • | | | | | | | | | | | |
| | | SCGT 09T308 | 0.10-5.00 | 0.03-0.40 | | | | | | | | | | | | | | | | | • | | | | | | | | | | | |
| | | SCGT 120404 | 0.05-3.00 | 0.01-0.12 | | | | | | | | | | | | | | | | | • | | | | | | | | | | | |
| | | SCGT 120408 | 0.10-3.00 | 0.02-0.15 | | | | | | | | | | | | | | | | | • | | | | | | | | | | | |
| | PBI | SCMT 09T304 | 0.30-2.4 | 0.04-0.14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SCMT 09T308 | 0.60-2.4 | 0.09-0.28 | | | | | | | | | | | | | | | | | o | | | | | | | | | | | |
| | | SCMT 120404 | 0.30-3.2 | 0.04-0.14 | | | | | | | | | | | | | | | | | o | | | | | | | | | | | |
| | EF2 | SCMT 09T304 | 0.10-2.0 | 0.06-0.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SCMT 09T308 | 0.15-2.0 | 0.08-0.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SF1 | SCMT 09T304 | 0.13-1.6 | 0.07-0.18 | | | | | | | | | | | | | | | | | o | o | | | | | | | | | | |
| | | SCMT 09T308 | 0.18-1.6 | 0.10-0.24 | | | | | | | | | | | | | | | | | | o | o | | | | | | | | | |

DIŞ ÇAP KATERLERİNİN KODLAMA SİSTEMİ

EXTERNAL TURNING TOOL HOLDER CODE SYSTEM



1 Bağlama Sistemleri / Clamping Method of Inserts

P C L N R 20 20 - K 12

Üstten Baskılı / Top Clamping Without Hole
Üstten Bağlamalı İçten Çektirmeli / Top and Hole Clamping (Multi Clamp, Pir and Clamp)
Üstten Bağlamalı İçten Çektirmeli / Top and Hole Clamping (Multi Clamp, Pir and Clamp)
Alttan Çektirmeli / Hole Clamping (Pin Lock)
Vidalı Sıkma / Screw On

C T M P S

3 Takım Tipi / Holder Style

P C L N R 20 20 - K 12

75° 45° 60° 90°
90° 93° 75° 95°
80° 62.5° 5° 45°
60° 72.5° 85° 100°

B D E F G J K L M N R S T V Y Z

4 Kesici Uç Boşluk Açısı / Clearance Angle of Insert

P C L N R 20 20 - K 12

5° 7° 15°
20° 25° 0°
11°

B C D E F N P

2 Kesici Uç Şekli / Insert Shape

P C L N R 20 20 - K 12

80° 55° 75° 55°
35° 80°

C D E K L R S T V W

5 Takım Kesme Yönü / Hand of Holder

P C L N R 20 20 - K 12

L N R

8 Takım Boyu / Length of Holder

P C L N R 20 20 - K 12

L N R

6 Sap Yüksekliği / Height of Shank

P C L N R 20 20 - K 12

H

9 Kesme Kenar Uzunluęu / Length of Insert Cutting Edge

P C L N R 20 20 - K 12

A.B.K C.D.E M.V H
L O P
R S T
W

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

X-Özel Takım / X-Special Item

7 Sap Geniřlięi / Width of Shank

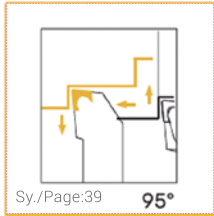
P C L N R 20 20 - K 12

W

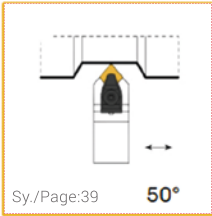
DIŞ ÇAP TORNA KATERLERİ - ÖNİZLEME

EXTERNAL TURNING - OVERVIEW

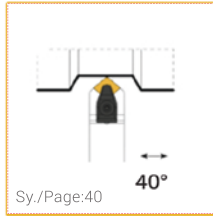
TCLNR/L



TCMNN



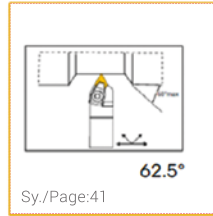
TCZNN



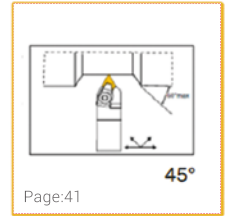
TDJNR/L



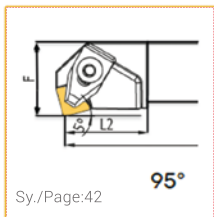
TDNNN



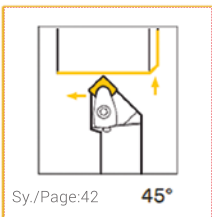
TSDNN



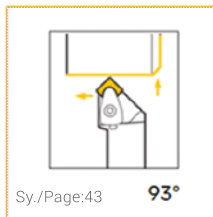
TSLNR/L



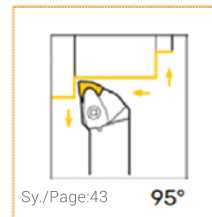
TSSNR/L



TTJNR/L



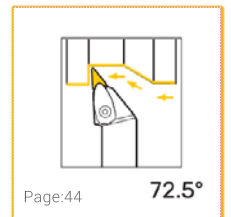
TWLNR/L



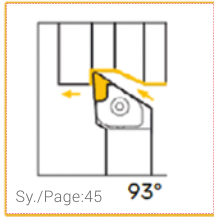
TVJNR/L



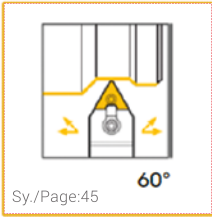
TVNNN



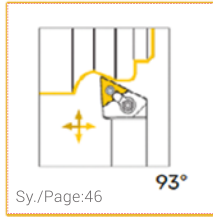
CKJNR/L



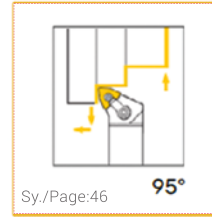
MTENN



MTJNR



MWLNR/L



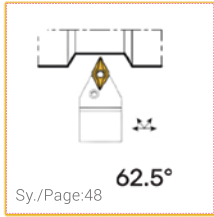
MWDNN



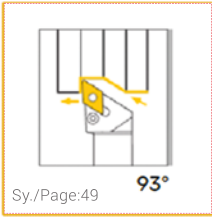
PCLNR/L



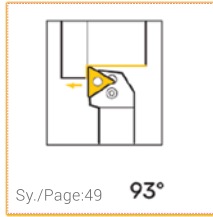
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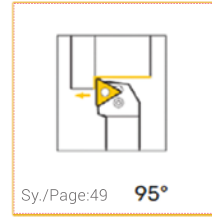
PDJNR/L



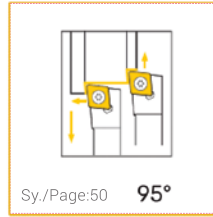
PTJNR/L



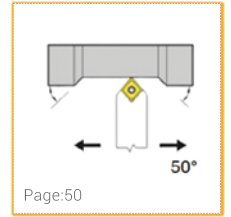
PWLNR/L



SCLCR/L



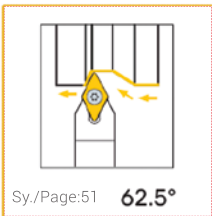
SCNCN



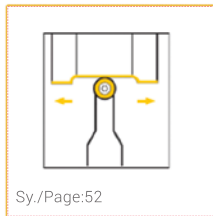
SDJCR/L



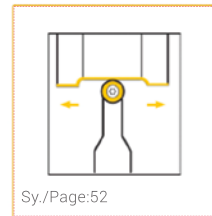
SDNCN



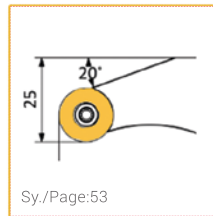
SRDCN



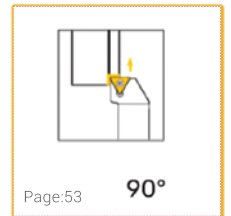
SRGCR/L



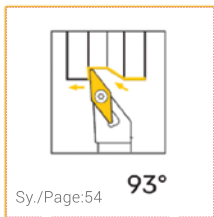
SRHCR/L



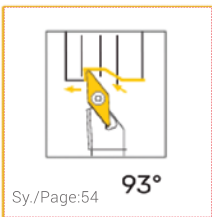
STFCR/L



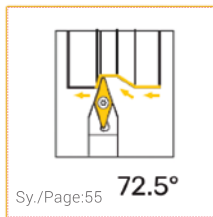
SVHBR/L



SVJBR/L



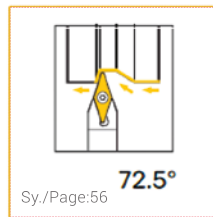
SVVBN



SVJCR/L



SVVCN

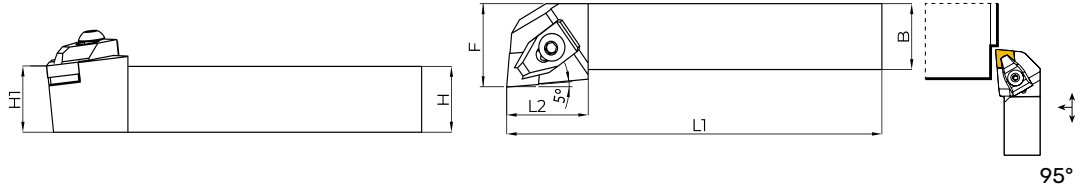


T TİPİ KATERLER / T TYPE TOOL HOLDER



CN**

TCLNR/L

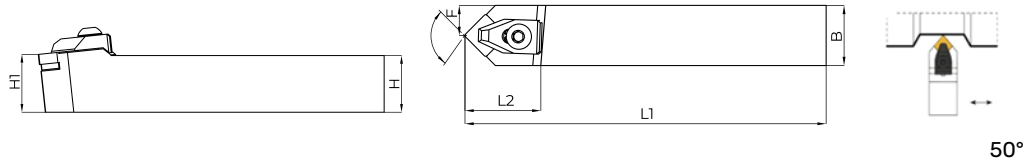


| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|-----------------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Pabuç Vidası Clamp Screw |
| TCLNR/L 1616-H12 | • | • | 16 | 16 | 25 | 100 | 35 | CNM. 1204.. | SCN12TM | SS0410M | CT0012M | CS0627M | A3 |
| TCLNR/L 2020-K12 | • | • | 20 | 20 | 25 | 125 | 35 | | | | | | |
| TCLNR/L 2525-M12 | • | • | 25 | 25 | 32 | 150 | 40 | | | | | | |
| TCLNR/L 3232-P12 | • | • | 32 | 32 | 40 | 170 | 40 | CNM. 1606... | SCN16TM | SS0510M | CT0016M | CS0627M | |
| TCLNR/L 2525-M16 | • | • | 25 | 25 | 32 | 150 | 40 | | | | | | |
| TCLNR/L 3232-P16 | • | • | 32 | 32 | 40 | 170 | 40 | | | | | | |
| TCLNR/L 3232-P19 | • | • | 32 | 32 | 40 | 170 | 40 | CNM. 1906.. | SCN19TM | SS0510M | CT0019M | CS0825M | A5 |
| TCLNR/L 4040-R19 | • | • | 40 | 40 | 50 | 200 | 45 | | | | | | |



CN**

TCMNN



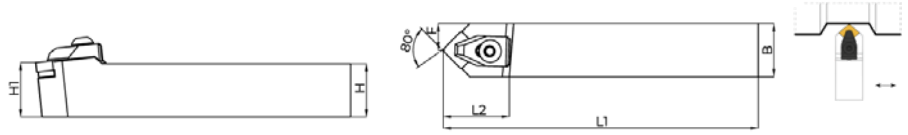
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|------|-----|---------------|--------------|-------------------------------|----------------|-----------------------------|----------------------|----|
| | H1 | H | B | F | L1 | L2 | Altık Shim | | Altık Vidası Shim Screw | Pabuç Clamp | Pabuç Vidası Clamp Screw | Anahtar Allen Key | |
| TCMNN 2020-K12 | • | • | 20 | 20 | 10 | 125 | 35 | CNM. 1204 | SCN12TM | SS0410M | CT0012M | CS0627M | A3 |
| TCMNN 2525-M12 | • | • | 25 | 25 | 12,5 | 150 | 40 | | | | | | |
| TCMNN 3232-P12 | • | • | 32 | 32 | 16 | 170 | 40 | | | | | | |
| TCMNN 3232-P16 | • | • | 32 | 32 | 16 | 170 | 40 | CNM. 1606 | SCN16TM | SS0510M | CT0016M | A5 | |
| TCMNN 3232-P19 | • | • | 32 | 32 | 16 | 170 | 40 | | | | | | |
| TCMNN 4040-S19 | • | • | 40 | 40 | 20 | 250 | 40 | CNM. 1906 | SCN19TM | SS0510M | CT0019M | | |

T TİPİ KATERLER / T TYPE TOOL HOLDER



CN**

TCZNN



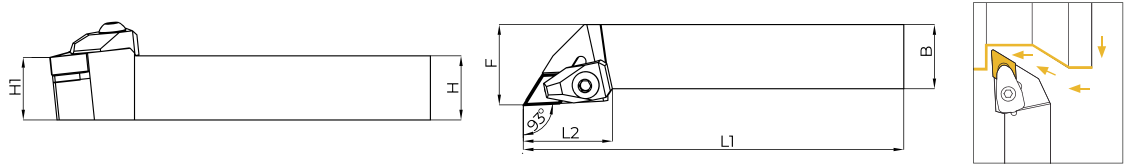
40°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|--|----|------|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|-----------------------------|
| | | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Pabuç Vidası Clamp Screw |
| TCZNN 2020-K12 | ● | 20 | 20 | 10 | 125 | 35 | CNM. 1204.. | SCN12TM | SS0410M | CT0012M | CS0627M | A3 |
| TCZNN 2525-M12 | ● | 25 | 25 | 12,5 | 150 | 40 | | | | | | |
| TCZNN 3232-P12 | ● | 32 | 32 | 16 | 170 | 40 | | | | | | |
| TCZNN 3232-P16 | ● | 32 | 32 | 16 | 170 | 40 | CNM. 1606 | SCN16TM | SS0510M | CT0016TM | CS0825M | A5 |
| TCZNN 3232-P19 | ● | 32 | 32 | 16 | 170 | 40 | CNM. 1906 | SCN19TM | | CT0019TM | | |
| TCZNN 4040-R19 | ● | 40 | 40 | 20 | 200 | 40 | | | | | | |



DN**

TDJNR/L



93°

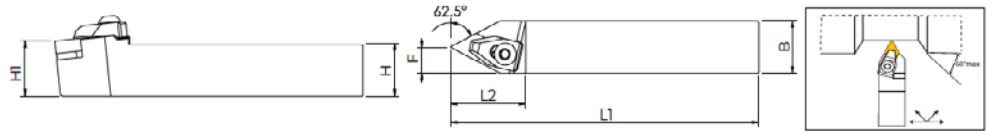
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|-----------------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Pabuç Vidası Clamp Screw |
| TDJNR/L 1616-K11 | ● | ● | 16 | 16 | 21 | 125 | 30 | DNM. 1104.. | SDN11TM | SS0411M | CT0011M | CS0523M | A3 |
| TDJNR/L 2020-K11 | ● | ● | 20 | 20 | 25 | 125 | 35 | | | | | | |
| TDJNR/L 2525-M11 | ● | ● | 25 | 25 | 32 | 150 | 40 | | | | | | |
| TDJNR/L 1616-K15 | ● | ● | 16 | 16 | 21 | 125 | 30 | DNM. 1506.. | SDN15TM | SS0410M | CT0015M | CS0627M | |
| TDJNR/L 2020-K15 | ● | ● | 20 | 20 | 25 | 125 | 35 | | | | | | |
| TDJNR/L 2525-M15 | ● | ● | 25 | 25 | 32 | 150 | 40 | | | | | | |
| TDJNR/L 3232-P15 | ● | ● | 32 | 32 | 40 | 170 | 40 | | | | | | |
| TDJNR/L 4040-R15 | ● | ● | 40 | 40 | 50 | 200 | 45 | | | | | | |

T TİPİ KATERLER / T TYPE TOOL HOLDER



DN**

TDNNN



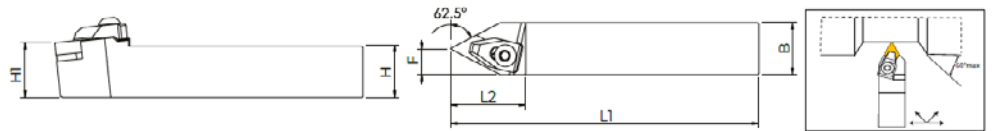
62.5°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|--|----|------|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|-----------------------------|
| | | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Pabuç Vidası Clamp Screw |
| TDNNN 1616-H11 | • | 16 | 16 | 8 | 100 | 30 | DNM. 1104.. | SDN11TM | SS0411M | CT0011M | CS0523M | A3 |
| TDNNN 2020-K11 | • | 20 | 20 | 10 | 125 | 35 | | | | | | |
| TDNNN 2525-M11 | • | 25 | 25 | 12,5 | 150 | 40 | | | | | | |
| TDNNN 2020-K15 | • | 20 | 20 | 10 | 125 | 35 | DNM. 1506.. | SDN15TM | SS0410M | CT0015M | CS0627M | |
| TDNNN 2525-M15 | • | 25 | 25 | 12,5 | 150 | 40 | | | | | | |
| TDNNN 3232-P15 | • | 32 | 32 | 16 | 170 | 40 | | | | | | |
| TDNNN 4040-R15 | • | 40 | 40 | 20 | 200 | 45 | | | | | | |



SN**

TSDNN



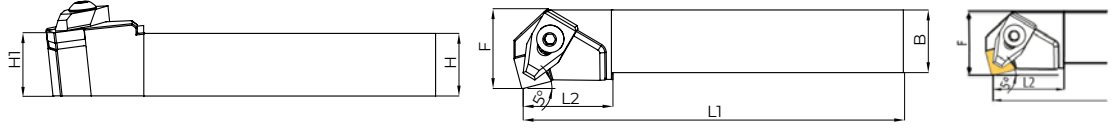
45°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|--|----|------|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|-----------------------------|
| | | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Pabuç Vidası Clamp Screw |
| TSDNN 2020-K12 | • | 20 | 20 | 10 | 125 | 35 | SNMG 1204.. | SSN12TM | SS0410M | CT0012M | CS0627M | A3 |
| TSDNN 2525-M12 | • | 25 | 25 | 12,5 | 150 | 40 | | | | | | |
| TSDNN 3232-P15 | • | 32 | 32 | 16 | 170 | 40 | SNMG 1506 | SSN15TM | SS0510M | CT0015M | CS0627M | A3 |
| TSDNN 4040-R15 | • | 40 | 40 | 20 | 200 | 45 | | | | | | |
| TSDNN 3232-P19 | • | 32 | 32 | 16 | 170 | 40 | SNMG 1906 | SSN19TM | SS0510M | CT0019M | CS0825M | A5 |
| TSDNN 4040-R19 | • | 40 | 40 | 20 | 200 | 45 | | | | | | |

T TİPİ KATERLER / T TYPE TOOL HOLDER



SN**



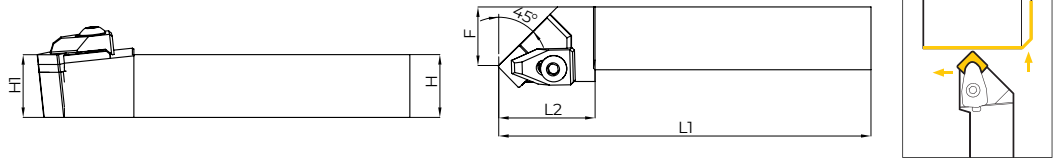
TSLNR/L

95°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|-----------------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Pabuç Vidası Clamp Screw |
| TSLNR/L 2020-K12 | • | • | 20 | 20 | 25 | 125 | 35 | SNMG 1204 | SSN12TM | SS0410M | CT0012M | CS0627M | A3 |
| TSLNR/L 2525-M12 | • | • | 25 | 25 | 32 | 150 | 40 | | | | | | |
| TSLNR/L 3232-P12 | • | • | 32 | 32 | 40 | 170 | 40 | SNMG 1204 | SSN12TM | SS0410M | CT0012M | CS0627M | A3 |
| TSLNR/L 3232-P15 | • | • | 32 | 32 | 40 | 170 | 40 | SNMG 1506 | SSN15TM | SS0510M | CT0015M | CS0627M | A3 |
| TSLNR/L 3232-P19 | • | • | 32 | 32 | 40 | 170 | 40 | SNMG 1906 | SSN19TM | SS0510M | CT0019M | CS0815M | A5 |
| TSLNR/L 4040-P15 | • | • | 40 | 40 | 50 | 170 | 40 | SNMG 1506 | SSN15TM | SS0510M | CT0015M | CS0627M | A3 |
| TSLNR/L 4040-R19 | • | • | 40 | 40 | 50 | 200 | 45 | SNMG 1906 | SSN19TM | SS0510M | CT0019M | CS0825M | A5 |



SN**



TSSNR/L

45°

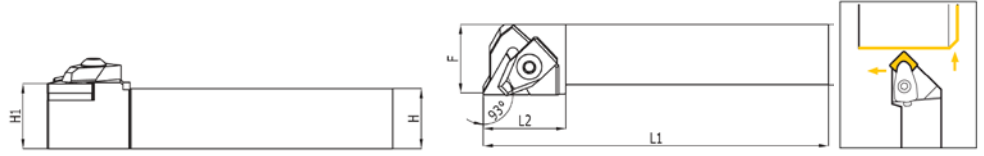
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|-----------------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Pabuç Vidası Clamp Screw |
| TSSNR/L 2020-K12 | • | • | 20 | 20 | 19 | 125 | 35 | SNMG 1204 | SSN12TM | SS0410M | CT0012M | CS0627M | A3 |
| TSSNR/L 2525-M12 | • | • | 25 | 25 | 24 | 150 | 40 | | | | | | |
| TSSNR/L 3232-P12 | • | • | 32 | 32 | 30 | 170 | 40 | SNMG 1506 | SSN15TM | SS0410M | CT0015M | CS0627M | A3 |
| TSSNR/L 3232-P15 | • | • | 32 | 32 | 30 | 170 | 40 | | | | | | |
| TSSNR/L 3232-P19 | • | • | 32 | 32 | 30 | 170 | 40 | SNMG 1906 | SSN19TM | SS0510M | CT0019M | CS0825M | A5 |
| TSSNR/L 4040-R19 | • | • | 40 | 40 | 38 | 200 | 45 | | | | | | |

T TİPİ KATERLER / T TYPE TOOL HOLDER



TN**

TTJNR/L



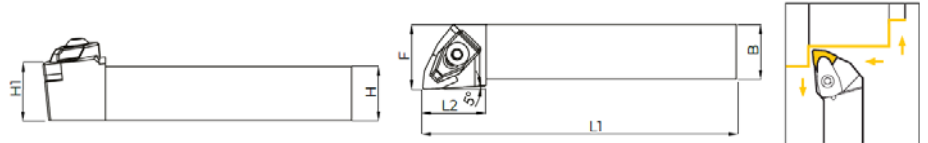
93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|-----------------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Pabuç Vidası Clamp Screw |
| TTJNR/L 1616-H16 | ● | ● | 16 | 16 | 21 | 100 | 30 | TNMG 1604 | STN16TMM | SS0410M | CT0016M | CS0523M | A3 |
| TTJNR/L 2020-K16 | ● | ● | 20 | 20 | 25 | 125 | 35 | | | | | | |
| TTJNR/L 2525-M16 | ● | ● | 25 | 25 | 32 | 150 | 40 | | | | | | |
| TTJNR/L 2020-K22 | ● | ● | 20 | 20 | 25 | 125 | 35 | TNMG 2204 | STN22TMM | SS0410M | CT0022M | CS0627M | |
| TTJNR/L 2525-M22 | ● | ● | 25 | 25 | 32 | 150 | 40 | | | | | | |
| TTJNR/L 3232-P22 | ● | ● | 32 | 32 | 40 | 170 | 40 | | | | | | |
| TTJNR/L 4040-R22 | ● | ● | 40 | 40 | 50 | 200 | 45 | TNMG 2204 | STN22TMM | SS0410M | CT0022M | CS0627M | A3 |



WN**

TWLNR/L



95°

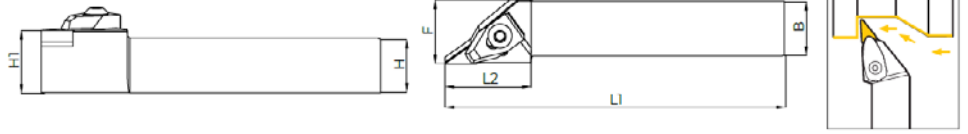
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|-----------------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Pabuç Vidası Clamp Screw |
| TWLNR/L 1616-K06 | ● | ● | 16 | 16 | 21 | 125 | 30 | WNM.0602.. | - | - | CT0006M | CS0515M | A3 |
| TWLNR/L 2020-K06 | ● | ● | 20 | 20 | 25 | 125 | 35 | | | | | | |
| TWLNR/L 2525-M06 | ● | ● | 25 | 25 | 32 | 150 | 40 | | | | | | |
| TWLNR/L 2020-K08 | ● | ● | 20 | 20 | 25 | 125 | 35 | WNM.0804.. | SWN08TMM | SS0410M | CT0008M | CS0627M | |
| TWLNR/L 2525-M08 | ● | ● | 25 | 25 | 32 | 150 | 40 | | | | | | |
| TWLNR/L 3232-P08 | ● | ● | 32 | 32 | 40 | 170 | 40 | | | | | | |
| TWLNR/L 4040-R08 | ● | ● | 40 | 40 | 50 | 200 | 45 | | | | | | |

T TİPİ KATERLER / T TYPE TOOL HOLDER



VN**

TVJNR/L



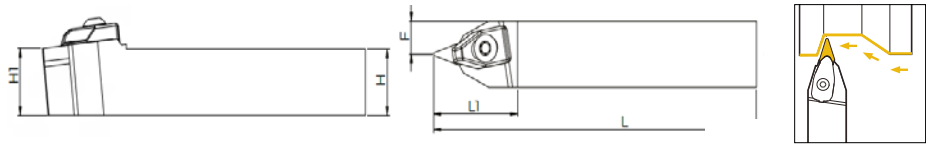
93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|-----------------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Pabuç Vidası Clamp Screw |
| TVJNR/L 1616-K16 | • | • | 16 | 16 | 25 | 125 | 35 | VNMG 1604 | SVN16TM | SS0411M | CT0016M | CS0627M | A3 |
| TVJNR/L 2020-K16 | • | • | 20 | 20 | 25 | 125 | 35 | | | | | | |
| TVJNR/L 2525-M16 | • | • | 25 | 25 | 32 | 150 | 40 | | | | | | |
| TVJNR/L 3232-P16 | • | • | 32 | 32 | 40 | 170 | 40 | | | | | | |
| TVJNR/L 4040-R16 | • | • | 40 | 40 | 50 | 200 | 45 | | | | | | |



VN**

TVNNT



72.5°

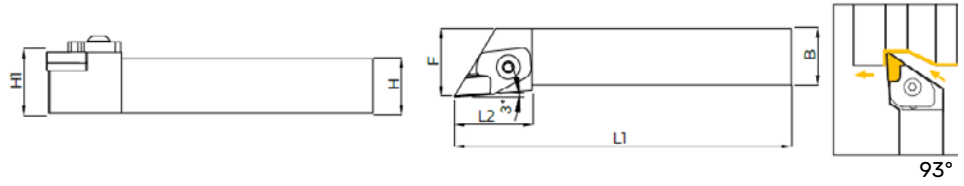
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|------|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|-----------------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Pabuç Vidası Clamp Screw |
| TVNNT 2020-K16 | • | | 20 | 20 | 10 | 125 | 30 | VNMG 1604 | SVN16TM | SS0411M | CT0116M | CS0627M | A3 |
| TVNNT 2525-M16 | • | | 25 | 25 | 12.5 | 150 | 35 | | | | | | |
| TVNNT 3232-P16 | • | | 32 | 32 | 16 | 170 | 40 | | | | | | |
| TVNNT 4040-P16 | • | | 40 | 40 | 16 | 170 | 40 | | | | | | |

C TİPİ KATERLER / C TYPE TOOL HOLDER



KN**

CKJNR/L



93°

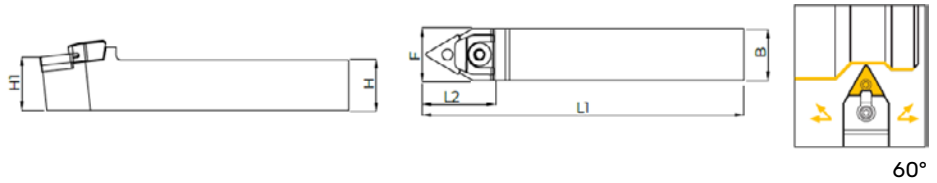
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|---------------|----------------|---------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Vida Screw | Pabuç Clamp | Vida Screw |
| CKJNR/L 2020-K16 | • | • | 20 | 20 | 25 | 125 | 35 | KNUX 1604.. | SK16RCM | SS0310M | CC0016M | CS0622M | A5 |
| CKJNR/L 2525-M16 | • | • | 25 | 25 | 32 | 150 | 40 | | | | | | |
| CKJNR/L 3232-P16 | • | • | 32 | 32 | 40 | 170 | 40 | | | | | | |
| CKJNR/L 4040-R16 | • | • | 40 | 40 | 50 | 200 | 45 | | | | | | |

M TİPİ KATERLER / M TYPE TOOL HOLDER



TN**

MTENN



60°

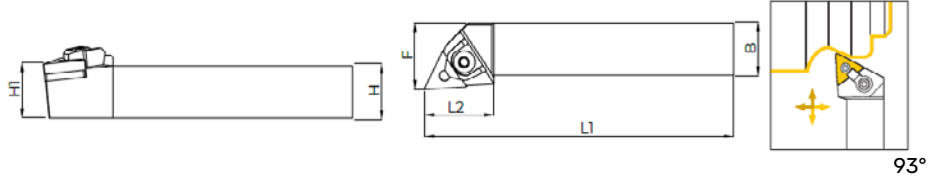
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|--|----|------|-----|----|--------------|-------------------------------|---------------|------------------------|----------------|---------------|
| | | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Pimi Shim Pin | Pabuç Clamp | Vida Screw |
| MTENN 1616-K16 | • | 16 | 16 | 8 | 125 | 30 | TNMG 1604 | STN16TMM | SP053615M | CM0016M | CS0627M | A3 |
| MTENN 2020-K16 | • | 20 | 20 | 10 | 125 | 35 | | | | | | |
| MTENN 2525-M16 | • | 25 | 25 | 12,5 | 150 | 40 | | | | | | |
| MTENN 3232-P16 | • | 32 | 32 | 16 | 170 | 35 | | | | | | |
| MTENN 2525-M22 | • | 25 | 25 | 12,5 | 150 | 40 | TNMG 2204 | STN22TMM | SPTN22M | CM0022M | | |
| MTENN 3232-P22 | • | 32 | 32 | 16 | 170 | 40 | | | | | | |
| MTENN 4040-R22 | • | 40 | 40 | 20 | 200 | 45 | | | | | | |

M TİPİ KATERLER / M TYPE TOOL HOLDER



TN**

MTJNR/L



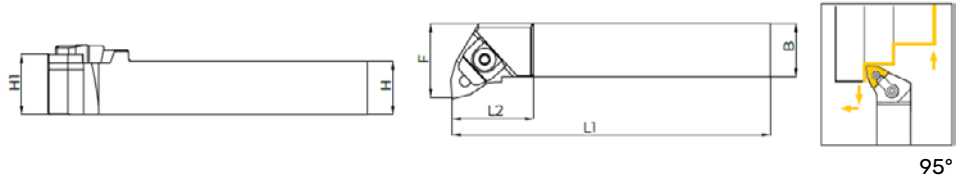
93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|------------------------|----------------|---------------|----------------------|
| | | | H1 | H | F | L1 | L2 | | Altık Shim | Altık Pimi Shim Pin | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| MTJNR/L 1616-K16 | ● | ● | 16 | 16 | 20 | 125 | 35 | TNMG 1604 | STN16TMM | SP053615M | CM0016M | CS0627M | A3 |
| MTJNR/L 2020-K16 | ● | ● | 20 | 20 | 25 | 125 | 35 | | | | | | |
| MTJNR/L 2525-M16 | ● | ● | 25 | 25 | 32 | 150 | 40 | | | | | | |
| MTJNR/L 3232-P16 | ● | ● | 32 | 32 | 40 | 170 | 40 | | | | | | |
| MTJNR/L 2525-M22 | ● | ● | 25 | 25 | 32 | 150 | 40 | TNMG 2204 | STN22TMM | SPTN22M | CM022M | CS0627M | A3 |
| MTJNR/L 3232-P22 | ● | ● | 32 | 32 | 40 | 170 | 40 | | | | | | |
| MTJNR/L 4040-R22 | ● | ● | 40 | 40 | 50 | 200 | 45 | | | | | | |



WN**

MWLNR/L



95°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|------------------------|----------------|---------------|----------------------|
| | | | H1 | H | F | L1 | L2 | | Altık Shim | Altık Pimi Shim Pin | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| MWLNR/L 1616-H06 | ● | ● | 16 | 16 | 30 | 100 | 35 | W NM.0602.. | SW N06MM | SP053615M | CM0006M | CS0523M | A3 |
| MWLNR/L 2020-K06 | ● | ● | 20 | 20 | 25 | 125 | 35 | | | | | | |
| MWLNR/L 2525-M06 | ● | ● | 25 | 25 | 32 | 150 | 40 | | | | | | |
| MWLNR/L 2020-K08 | ● | ● | 20 | 20 | 25 | 125 | 35 | W NM.0804.. | SW N08MM | SPTN22M | CM0008M | CS0627M | A3 |
| MWLNR/L 2525-M08 | ● | ● | 25 | 25 | 32 | 150 | 40 | | | | | | |
| MWLNR/L 3232-P08 | ● | ● | 32 | 32 | 40 | 170 | 40 | | | | | | |
| MWLNR/L 4040-R08 | ● | ● | 40 | 40 | 50 | 200 | 45 | | | | | | |

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

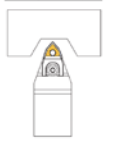
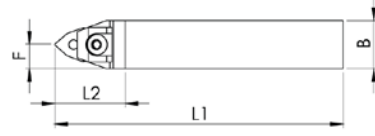
▲ Özel Sipariş - Special order

M TİPİ KATERLER / M TYPE TOOL HOLDER



WN**

MWDNN



50°

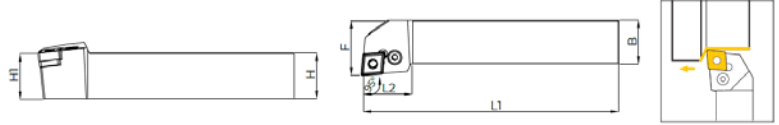
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|--|----|------|-----|----|--------------|-------------------------------|------------------------|----------------|---------------|----------------------|
| | | H1 H | B | F | L1 | L2 | | Altık Shim | Altık Pimi Shim Pin | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| MWDNN 1616-K06 | ● | 16 | 16 | 8 | 125 | 35 | WNM.0604 | SW N06MM | SP053615M | CM0006M | CS0523M | A3 |
| MWDNN 2020-K06 | ● | 20 | 20 | 10 | 125 | 35 | | | | | | |
| MWDNN 2020-K08 | ● | 20 | 20 | 10 | 125 | 40 | WNM.0804.. | SW N08MM | SP0658M | CM0008M | CS0627M | |
| MWDNN 2525-M08 | ● | 25 | 25 | 12,5 | 150 | 40 | | | | | | |
| MWDNN 3232-P08 | ● | 32 | 32 | 16 | 170 | 40 | | | | | | |
| MWDNN 4040-R08 | ● | 40 | 40 | 20 | 200 | 45 | | | | | | |

P TİPİ KATERLER / P TYPE TOOL HOLDER



CN**

PCLNR/L



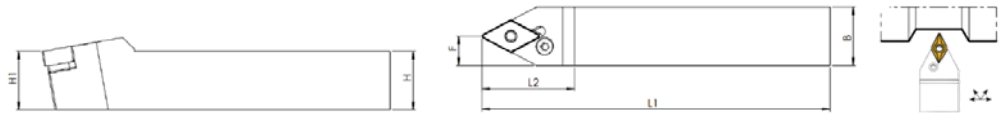
95°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|--------------------|---------------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Levyeye Crowbar | Altık Sacı Metal Sheet |
| PCLNR/L 2020-K12 | ● | ● | 20 | 20 | 25 | 125 | 35 | CNM. 1204.. | SCN12PM | SM8KM | CPL012M | SSP012M | A3 |
| PCLNR/L 2525-M12 | ● | ● | 25 | 25 | 32 | 150 | 35 | | | | | | |
| PCLNR/L 3232-P12 | ● | ● | 32 | 32 | 40 | 170 | 40 | | | | | | |
| PCLNR/L 4040-R12 | ● | ● | 40 | 40 | 50 | 200 | 40 | | | | | | |
| PCLNR/L 2525-M16 | ● | ● | 25 | 25 | 32 | 150 | 40 | CNM. 1606.. | SCN16PM | SM8UM | CPL016M | SSP016M | A4 |
| PCLNR/L 3232-P16 | ● | ● | 32 | 32 | 40 | 170 | 40 | | | | | | |
| PCLNR/L 4040-R16 | ● | ● | 40 | 40 | 50 | 200 | 45 | | | | | | |
| PCLNR/L 3232-P19 | ● | ● | 32 | 32 | 40 | 170 | 40 | | | | | | |
| PCLNR/L 4040-R19 | ● | ● | 40 | 40 | 50 | 200 | 45 | CNM. 1906.. | SCN19PM | | CPL019M | SSP019M | |



DN**

PDNNN



62.5°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|--------------------|---------------------------|
| | | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Levyeye Crowbar | Altık Sacı Metal Sheet |
| PDNNN 2020-K16 | ● | 20 | 20 | 25 | 125 | 35 | DNM1606 | SDN16PM | SM8KM | CPL015M | SSP015M | A3 |
| PDNNN 2525-M16 | ● | 25 | 25 | 32 | 150 | 40 | | | | | | |
| PDNNN 3232-P16 | ● | 32 | 32 | 40 | 170 | 40 | | | | | | |
| PDNNN 4040-R16 | ● | 40 | 40 | 45 | 200 | 45 | | | | | | |
| | | | | | | | | | SM8UM | | | A4 |

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

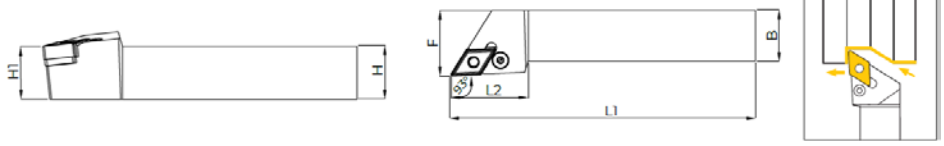
▲ Özel Sipariş - Special order

P TİPİ KATERLER / P TYPE TOOL HOLDER



DN**

PDJNR/L



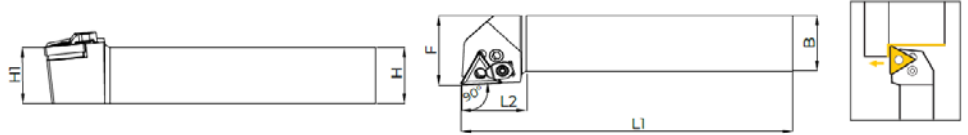
93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|--------------------|---------------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Levyeye Crowbar | Altık Sacı Metal Sheet |
| PDJNR/L 2020-K15 | • | • | 20 | 20 | 25 | 125 | 35 | DNM. 1506.. | SDN15PM | SM8KM | CPL015M | SSP015M | A3 |
| PDJNR/L 2525-M15 | • | • | 25 | 25 | 32 | 150 | 40 | | | | | | |
| PDJNR/L 3232-P15 | • | • | 32 | 32 | 40 | 170 | 40 | | | | | | |
| PDJNR/L 4040-R15 | • | • | 40 | 40 | 45 | 200 | 45 | | | | | | |



TN**

PTJNR/L



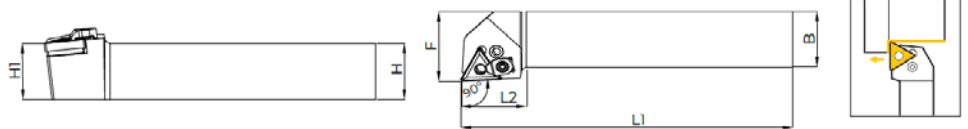
93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|--------------------|---------------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Levyeye Crowbar | Altık Sacı Metal Sheet |
| PTJNR 2020-K16 | | • | 20 | 20 | 25 | 125 | 35 | TNMG 1604 | STN16PM | SM8KM | CPL016M | SSP016M | A3 |
| PTJNR 2525-M16 | | • | 25 | 25 | 32 | 150 | 40 | | | SM8KM | | | |
| PTJNR 3232-P16 | | • | 32 | 32 | 40 | 170 | 40 | | | SM8UM | | | |
| PTJNR/L 2525-M22 | • | • | 25 | 25 | 32 | 150 | 40 | TNMG 2204 | STN22PM | SM8KM | CPL022M | SSP022M | A4 |
| PTJNR/L 3232-P22 | • | • | 32 | 32 | 40 | 170 | 40 | | | | | | |
| PTJNR 4040-R22 | | • | 40 | 40 | 50 | 200 | 45 | | | SM8UM | | | |



WN**

PWLNR/L



95°

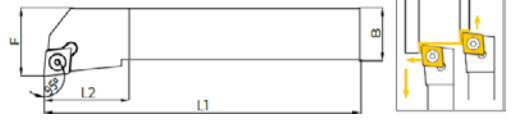
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|--------------------|---------------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Levyeye Crowbar | Altık Sacı Metal Sheet |
| PWLNR/L 2020-K08 | • | • | 20 | 20 | 25 | 125 | 35 | WNM.0804.. | SWN08PM | SM8KM | CPL08M | SSP08M | A3 |
| PWLNR/L 2525-M08 | • | • | 25 | 25 | 32 | 150 | 40 | | | | | | |
| PWLNR/L 3232-P08 | • | • | 32 | 32 | 40 | 170 | 40 | | | | | | |
| PWLNR/L 4040-R08 | • | • | 40 | 40 | 50 | 200 | 45 | | | | | | |

S TİPİ KATERLER / S TYPE TOOL HOLDER



CC**

SCLCR/L



95°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|---------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw |
| SCLCR/L 0808-H06 | • | • | 8 | 8 | 10 | 100 | 20 | CC.T 0602.. | - | - | - | SM2,5X7 | T8 |
| SCLCR/L 1010-H06 | • | • | 10 | 10 | 12 | 100 | 20 | | | | | | |
| SCLCR/L 1212-H06 | • | • | 12 | 12 | 15 | 100 | 20 | | | | | | |
| SCLCR/L 1616-H06 | • | • | 16 | 16 | 20 | 100 | 25 | | | | | | |
| SCLCR/L 1212-H09 | • | • | 12 | 12 | 15 | 100 | 20 | CC.T 09T3.. | - | - | - | SM3,5X10 | T15 |
| SCLCR/L 1616-H09 | • | • | 16 | 16 | 20 | 100 | 25 | | | | | | |
| SCLCR/L 2020-K09 | • | • | 20 | 20 | 25 | 125 | 35 | | | | | | |
| SCLCR/L 2525-M09 | • | • | 25 | 25 | 32 | 150 | 35 | | | | | | |
| SCLCR/L 1616-H12 | • | • | 16 | 16 | 20 | 100 | 25 | CC.T 1204.. | SCC12SM | SS0610M | - | SM4X14 | T15 |
| SCLCR/L 2020-K12 | • | • | 20 | 20 | 25 | 125 | 35 | | | | | | |
| SCLCR/L 2525-M12 | • | • | 25 | 25 | 32 | 150 | 35 | | | | | | |
| SCLCR/L 3232-P12 | • | • | 32 | 32 | 40 | 170 | 40 | | | | | | |



CC**

SCNCN



50°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|------|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|---------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw |
| SCNCN 0808-H06 | • | • | 8 | 8 | 4 | 100 | 16 | CC.T 0602.. | - | - | - | SM2,5X7 | T8 |
| SCNCN 1010-H06 | • | • | 10 | 10 | 5 | 100 | 16 | | | | | | |
| SCNCN 1212-H06 | • | • | 12 | 12 | 6 | 100 | 20 | | | | | | |
| SCNCN 1212-H09 | • | • | 12 | 12 | 6 | 100 | 20 | CC.T 09T3.. | - | - | - | SM3,5X10 | T15 |
| SCNCN 1616-H09 | • | • | 16 | 16 | 8 | 100 | 25 | | | | | | |
| SCNCN 2020-K09 | • | • | 20 | 20 | 10 | 125 | 35 | | | | | | |
| SCNCN 2525-M12 | • | • | 25 | 25 | 12,5 | 150 | 40 | CC.T 1204.. | SCC12SM | SS0610M | - | SM4X16 | T15 |

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

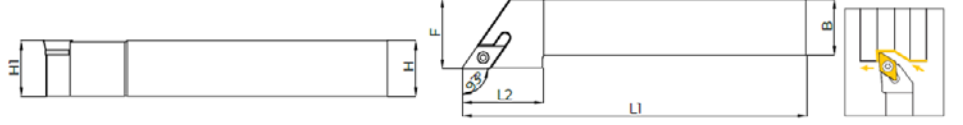
▲ Özel Sipariş - Special order

S TİPİ KATERLER / S TYPE TOOL HOLDER



DC**

SDJCR/L



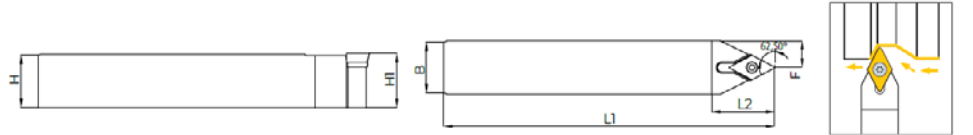
93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|---------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw |
| SDJCR/L 0808-H07 | • | • | 8 | 8 | 10 | 100 | 16 | DC.T 0702.. | - | - | - | SM2,5X7 | T8 |
| SDJCR/L 1010-H07 | • | • | 10 | 10 | 12 | 100 | 16 | | | | | | |
| SDJCR/L 1212-H07 | • | • | 12 | 12 | 16 | 100 | 20 | | | | | | |
| SDJCR/L 1616-H07 | • | • | 16 | 16 | 20 | 100 | 25 | | | | | | |
| SDJCR/L 1616-H11 | • | • | 16 | 16 | 20 | 100 | 25 | DC.T 11T3.. | SDC11SM | SS050535M | - | SM3,5X14 | T15 |
| SDJCR/L 2020-K11 | • | • | 20 | 20 | 25 | 125 | 35 | | | | | | |
| SDJCR/L 2525-M11 | • | • | 25 | 25 | 32 | 150 | 40 | | | | | | |
| SDJCR/L 3232-P11 | • | • | 32 | 32 | 40 | 170 | 40 | | | | | | |



DC**

SDNCN



62.5°

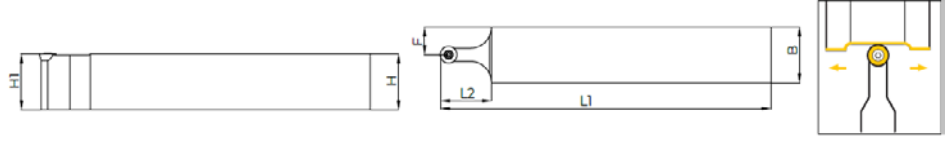
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|------|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|---------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw |
| SDNCN 0808-H07 | • | • | 8 | 8 | 4 | 100 | 16 | DC.T 0702.. | - | - | - | SM2,5X7 | T8 |
| SDNCN 1010-H07 | • | • | 10 | 10 | 5 | 100 | 16 | | | | | | |
| SDNCN 1212-H07 | • | • | 12 | 12 | 6 | 100 | 20 | | | | | | |
| SDNCN 1616-H07 | • | • | 16 | 16 | 8 | 100 | 25 | | | | | | |
| SDNCN 1212-M11 | • | • | 12 | 12 | 6 | 150 | 20 | DC.T 11T3.. | SDC11SM | SS050535M | - | SM3,5X14 | T15 |
| SDNCN 1616-H11 | • | • | 16 | 16 | 8 | 100 | 25 | | | | | | |
| SDNCN 2020-K11 | • | • | 20 | 20 | 10 | 125 | 35 | | | | | | |
| SDNCN 2525-M11 | • | • | 25 | 25 | 12,5 | 150 | 40 | | | | | | |
| SDNCN 3232-P11 | • | • | 32 | 32 | 16 | 170 | 45 | | | | | | |

S TİPİ KATERLER / S TYPE TOOL HOLDER



RC**

SRDCN

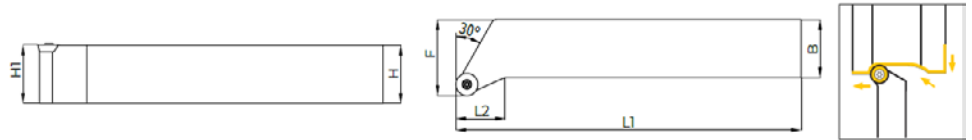


| Sipariş Kodu Order Code | Stok Durumu Stock Availability | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|--|----|------|-----|----|--------------|-------------------------------|----------------------------|----------------|---------------|----------------------|
| | | H1 H | B | F | L1 | L2 | | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| SRDCN 1616-H08 | • | 16 | 16 | 8 | 100 | 20 | RC.T 0803. | - | - | - | SM3X10 | T10 |
| SRDCN 2020-K08 | • | 20 | 20 | 10 | 125 | 30 | | | | | | |
| SRDCN 2525-M08 | • | 25 | 25 | 12,5 | 150 | 35 | | | | | | |
| SRDCN 1616-H10 | • | 16 | 16 | 8 | 100 | 20 | RC.T 10T3.. | - | - | - | SM4X12 | T15 |
| SRDCN 2020-K10 | • | 20 | 20 | 10 | 125 | 30 | | | | | | |
| SRDCN 2525-M10 | • | 25 | 25 | 12,5 | 150 | 35 | | | | | | |
| SRDCN 3232-P10 | • | 32 | 32 | 16 | 170 | 40 | RC.T 1204.. | - | - | - | SM5X12 | T20 |
| SRDCN 2020-K12 | • | 20 | 20 | 10 | 125 | 30 | | | | | | |
| SRDCN 2525-M12 | • | 25 | 25 | 12,5 | 150 | 35 | | | | | | |
| SRDCN 3232-P12 | • | 32 | 32 | 16 | 170 | 40 | RC.T 1604.. | - | - | - | SM5X12 | T20 |



RC**

SRGCR/L

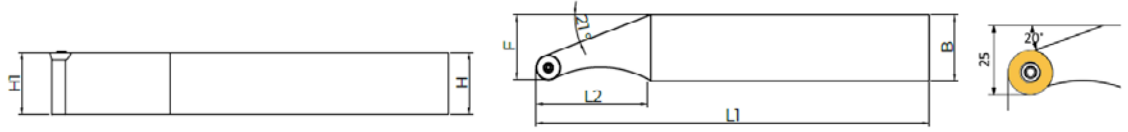


| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|----------------------------|----------------|---------------|----------------------|
| | L | R | H1 H | B | F | L1 | L2 | | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| SRGCR/L 1616-K08 | • | • | 16 | 16 | 21 | 125 | 25 | RC.T 0803.. | - | - | - | SM3X10 | T10 |
| SRGCR/L 1616-H10 | • | • | 16 | 16 | 21 | 100 | 25 | RC.T 10T3.. | - | - | - | SM4X12 | T15 |
| SRGCR/L 2525-M08 | • | • | 20 | 20 | 25 | 125 | 35 | RC.T 0803.. | - | - | - | SM3X10 | T10 |
| SRGCR/L 2525-M08 | • | • | 25 | 25 | 32 | 150 | 40 | | | | | | |
| SRGCR/L 2020-K10 | • | • | 20 | 20 | 25 | 125 | 35 | RC.T 10T3.. | - | - | - | SM4X12 | T15 |
| SRGCR/L 2525-M10 | • | • | 25 | 25 | 32 | 150 | 40 | | | | | | |
| SRGCR/L 2020-K12 | • | • | 20 | 20 | 25 | 125 | 35 | RC.T 1204.. | - | - | - | SM4X12 | T15 |
| SRGCR/L 2525-M12 | • | • | 25 | 25 | 32 | 150 | 40 | | | | | | |
| SRGCR/L 3232-P10 | • | • | 32 | 32 | 40 | 170 | 40 | RC.T 10T3.. | - | - | - | SM4X12 | T15 |
| SRGCR/L 3232-P12 | • | • | 32 | 32 | 40 | 170 | 40 | RC.T 1204.. | - | - | - | SM4X12 | T15 |

S TİPİ KATERLER / S TYPE TOOL HOLDER



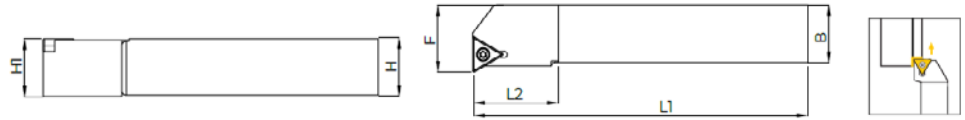
SRHCR/L



| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | | |
|----------------------------|-----------------------------------|---|--|----|----|----|-----|--------------|-------------------------------|---------------|----------------------------|----------------|---------------|----------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| SRHCR 1616-H08 | ● | ● | 16 | 16 | 16 | 16 | 100 | 20 | RC.T 0803.. | - | - | - | SM3X10 | T10 |
| SRHCR/L 2020-K08 | ● | ● | 20 | 20 | 20 | 20 | 125 | 35 | | - | - | - | SM3X10 | T10 |
| SRHCR/L 2525-M08 | ● | ● | 25 | 25 | 25 | 25 | 150 | 40 | | - | - | - | SM3X10 | T10 |
| SRHCR/L 2020-K10 | ● | ● | 20 | 20 | 20 | 20 | 125 | 35 | RC.T 10T3.. | - | - | - | SM4X12 | T15 |
| SRHCR/L 2525-M10 | ● | ● | 25 | 25 | 25 | 25 | 150 | 40 | | - | - | - | | |
| SRHCR 1616-K12 | ● | ● | 16 | 16 | 16 | 16 | 125 | 25 | RC.T 1204.. | - | - | - | SM4X12 | T15 |
| SRHCR/L 2020-K12 | ● | ● | 20 | 20 | 20 | 20 | 125 | 35 | | - | - | - | | |
| SRHCR/L 2525-M12 | ● | ● | 25 | 25 | 25 | 25 | 150 | 40 | | - | - | - | | |
| SRHCR/L 3232-K12 | ● | ● | 32 | 32 | 32 | 32 | 125 | 35 | RC.T 1204.. | - | - | - | SM4X12 | T15 |



STFCR/L



90°

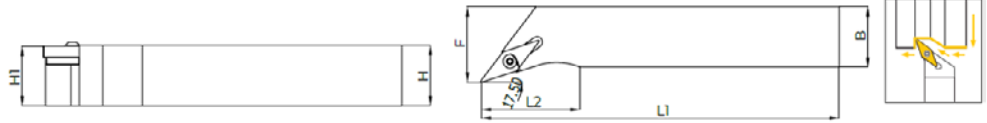
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | | |
|----------------------------|-----------------------------------|---|--|----|----|----|-----|--------------|-------------------------------|---------------|----------------------------|----------------|---------------|----------------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| STFCR/L 1212-H11 | ● | ● | 12 | 12 | 16 | 16 | 100 | 25 | TC.T 11.. | - | - | - | SM2,5X7 | T8 |
| STFCR/L 1616-H11 | ● | ● | 16 | 16 | 20 | 20 | 100 | 25 | | - | - | - | SM2,5X7 | T8 |
| STFCR/L 1616-H16 | ● | ● | 16 | 16 | 20 | 20 | 100 | 25 | | - | - | - | SM2,5X7 | T8 |
| STFCR/L 2020-K16 | ● | ● | 20 | 20 | 25 | 25 | 125 | 35 | TC.T 16T3.. | STC16SM | SS050535M | - | SM3,5X14 | T15 |
| STFCR/L 2525-M16 | ● | ● | 25 | 25 | 32 | 32 | 150 | 40 | | - | - | - | SM3,5X14 | T15 |

S TİPİ KATERLER / S TYPE TOOL HOLDER



VB**

SVHBR/L



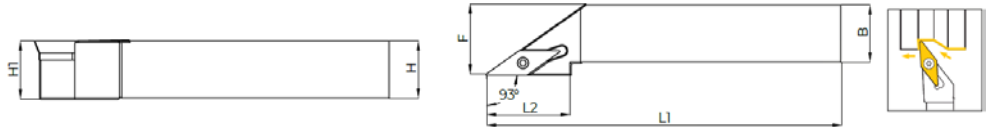
107.5°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|---------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw |
| SVHBR/L 1616-H11 | • | • | 16 | 16 | 20 | 100 | 25 | VBM. 1103.. | - | - | - | SM2,5X7 | T08 |
| SVHBR/L 2020-K11 | • | • | 20 | 20 | 25 | 125 | 30 | | - | - | - | SM2,5X7 | T08 |
| SVHBR/L 2020-K16 | • | • | 20 | 20 | 25 | 125 | 35 | | - | - | - | SM2,5X7 | T08 |
| SVHBR/L 2525-M16 | • | • | 25 | 25 | 32 | 150 | 40 | VBM. 1604.. | SVB16SM | SS050535M | - | SM3,5X14 | T15 |
| SVHBR/L 3232-P16 | • | • | 32 | 32 | 40 | 170 | 40 | | SVB16SM | SS050535M | - | SM3,5X14 | T15 |



VB**

SVJBR/L



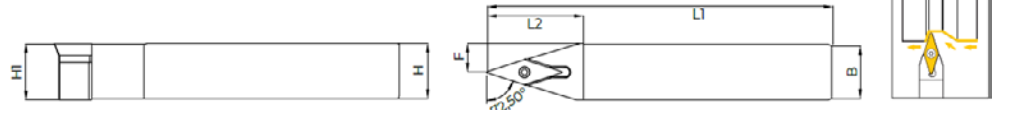
93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|---------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw |
| SVJBR 1212-H11 | | • | 12 | 12 | 20 | 100 | 20 | VBM. 1103.. | - | - | - | SM2,5X7 | T08 |
| SVJBR/L 1616-H11 | • | • | 16 | 16 | 20 | 100 | 25 | | - | - | - | SM2,5X7 | T08 |
| SVJBR/L 2020-K11 | • | • | 20 | 20 | 25 | 125 | 30 | | - | - | - | SM2,5X7 | T08 |
| SVJBR 2525-M11 | | • | 25 | 25 | 32 | 150 | 40 | VBM. 1604.. | SVB16SM | SS050535M | - | SM3,5X14 | T15 |
| SVJBR/L 1616-H16 | • | • | 16 | 16 | 20 | 100 | 25 | | SVB16SM | SS050535M | - | SM3,5X14 | T15 |
| SVJBR/L 2020-K16 | • | • | 20 | 20 | 25 | 125 | 35 | | SVB16SM | SS050535M | - | SM3,5X14 | T15 |
| SVJBR/L 2525-M16 | • | • | 25 | 25 | 32 | 150 | 40 | | SVB16SM | SS050535M | - | SM3,5X14 | T15 |
| SVJBR/L 3232-P16 | • | • | 32 | 32 | 40 | 170 | 40 | | SVB16SM | SS050535M | - | SM3,5X14 | T15 |

S TİPİ KATERLER / S TYPE TOOL HOLDER



SVVBN

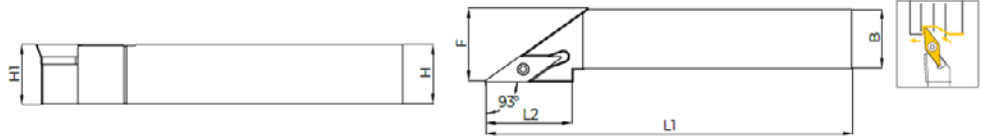


72.5°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|--|----|------|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|---------------|
| | | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw |
| SVVBN 1212-H11 | ● | 12 | 12 | 6 | 100 | 20 | VBM. 1103.. | - | - | - | SM2,5X7 | T08 |
| SVVBN 1616-H11 | ● | 16 | 16 | 8 | 100 | 25 | | | | | | |
| SVVBN 2020-K11 | ● | 20 | 20 | 12,5 | 125 | 35 | | | | | | |
| SVVBN 1616-H16 | ● | 16 | 16 | 8 | 100 | 25 | VBM. 1604.. | SVB16SM | SS050535M | - | SM3,5X14 | T15 |
| SVVBN 2020-K16 | ● | 20 | 20 | 10 | 125 | 35 | | | | | | |
| SVVBN 2525-M16 | ● | 25 | 25 | 12,5 | 150 | 40 | | | | | | |
| SVVBN 3232-P16 | ● | 32 | 32 | 16 | 170 | 40 | | | | | | |



SVJCR/L



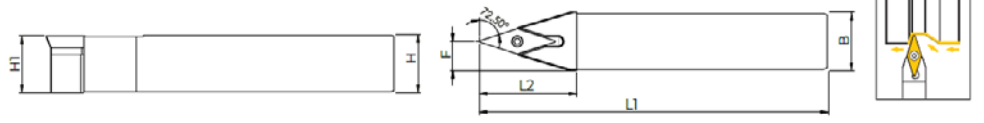
93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|----|----|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|---------------|
| | L | R | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw |
| SVJCR/L 1212-H11 | ● | ● | 12 | 12 | 20 | 100 | 20 | VCM. 1103.. | - | - | - | SM2,5X7 | T08 |
| SVJCR/L 1616-H11 | ● | ● | 16 | 16 | 20 | 100 | 25 | | | | | | |
| SVJCR/L 2020-K11 | ● | ● | 20 | 20 | 25 | 125 | 35 | | | | | | |
| SVJCR/L 1616-H16 | ● | ● | 16 | 16 | 20 | 100 | 25 | VCM. 1604.. | SVC16SM | SS050535M | - | SM3,5X14 | T15 |
| SVJCR/L 2020-K16 | ● | ● | 20 | 20 | 25 | 125 | 35 | | | | | | |
| SVJCR/L 2525-M16 | ● | ● | 25 | 25 | 32 | 150 | 40 | | | | | | |
| SVJCR/L 3232-P16 | ● | ● | 32 | 32 | 40 | 170 | 40 | | | | | | |

S TİPİ KATERLER / S TYPE TOOL HOLDER



SVVCN



72.5°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|--|----|------|-----|----|--------------|-------------------------------|---------------|----------------------------|----------------|---------------|
| | | H1 | H | B | F | L1 | | L2 | Altık Shim | Altık Vidası Shim Screw | Pabuç Clamp | Vida Screw |
| SVVCN 1212-H11 | ● | 12 | 12 | 6 | 100 | 20 | VCM. 1103.. | - | - | - | SM2,5X7 | T08 |
| SVVCN 1616-H11 | ● | 16 | 16 | 8 | 100 | 25 | | - | - | - | SM2,5X7 | T08 |
| SVVCN 2020-K11 | ● | 20 | 20 | 12,5 | 125 | 35 | | - | - | - | SM2,5X7 | T08 |
| SVVCN 1616-H16 | ● | 16 | 16 | 8 | 100 | 25 | VCM. 1604.. | SVC12SM | SS050535M | - | SM3,5X14 | T15 |
| SVVCN 2020-K16 | ● | 20 | 20 | 10 | 125 | 35 | | SVC12SM | SS050535M | - | SM3,5X14 | T15 |
| SVVCN 2525-M16 | ● | 25 | 25 | 12,5 | 150 | 40 | | SVC12SM | SS050535M | - | SM3,5X14 | T15 |
| SVVCN 3232-P16 | ● | 32 | 32 | 16 | 170 | 40 | | SVC12SM | SS050535M | - | SM3,5X14 | T15 |

İÇ ÇAP KATERLERİNİN KODLAMA SİSTEMİ

INTERNAL TURNING TOOL HOLDER CODE SYSTEM



1 Şaft Tipi / Type of Bar
S12M-SCLCR-07

- *"A" Soğutma kanallı çelik şaft
"A" Steel with coolant hole
- *"E" Çelik kafalı, soğutma kanallı karbür şaft
"E" Carbide bar with faced steel head and coolant hole
- *"C" Karbür Şaft / "C" Carbide Shank
- *"S" Çelik Şaft / "S" Steel Shank
- *"X" Özel tip / "X" Special type

2 Şaft Uzunluğu / Bar Diameter
S12M-SCLCR-07

3 Şaft Uzunluğu / Bar length
S12M-SCLCR-07

| Boy (L) Length (L) | (mm) |
|-----------------------|------|
| H | 100 |
| J | 110 |
| K | 125 |
| M | 150 |
| N | 160 |
| Q | 180 |
| R | 200 |
| S | 250 |
| T | 300 |
| U | 350 |
| V | 400 |
| W | 450 |
| Y | 500 |

4 Bağlama Sistemleri / Clamping Method of Inserts
S12M-SCLCR-07

5 Kesici Uç Şekli / Insert Shape
S12M-SC LCR-07

6 Uç Serbest Şekli / Lead Angle of Boring Bar
S12M-SC LCR-07

8 Şaft Kesme Yönü / Hand of Bar
S12M-SCLCR-07

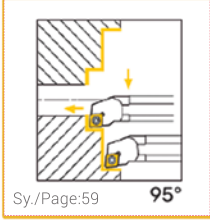
7 Ayrılma Açısı / Relief Angle of Insert
S12M-SCLCR-07

9 Kesme Kenar Uzunluğu / Length of Cutting Edge
S12M-SCLCR-07

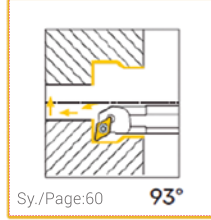
İÇ ÇAP TORNALAMA KATERLERİ - ÖNİZLEME

INTERNAL TURNING - OVERVIEW

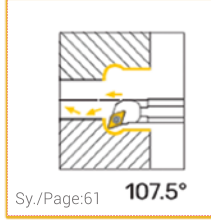
S.../A...SCLCR/L



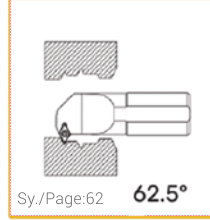
S.../A...SDUCR/L



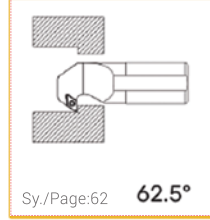
S.../A...SDQCR/L



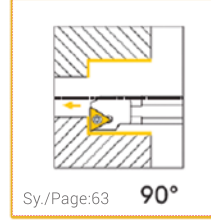
S...SD-CR/L



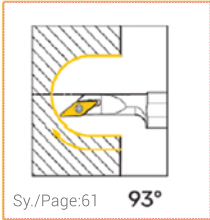
S... SDXCR/L



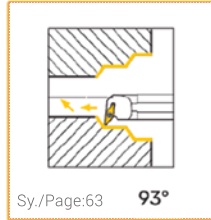
S...STFCR/L



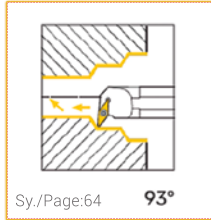
S...SVJBR/L



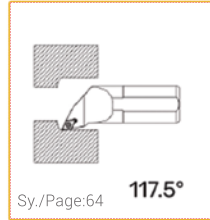
S...SVUBR/L



S...SVUCR/L



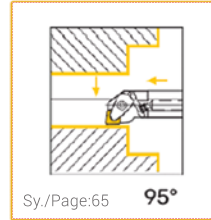
S...SDPCR/L



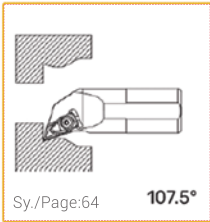
S...CKUNR/L



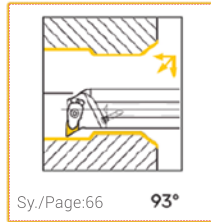
S...TCLNR/L



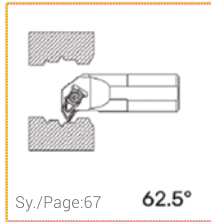
S...TDQNR/L



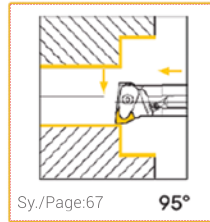
S...TDUNR/L



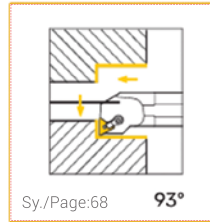
S...TD-NR/L



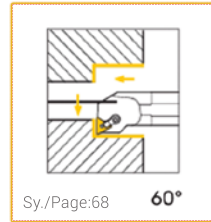
S...TWLNR/L



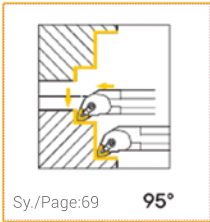
S...MTUNR/L



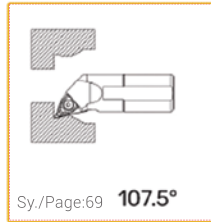
S...MT-NR/L



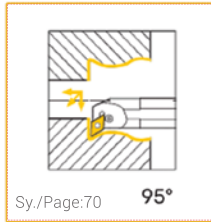
S...MWLNR/L



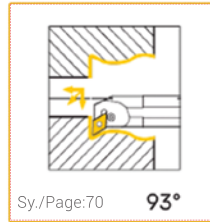
S...MTQNR/L



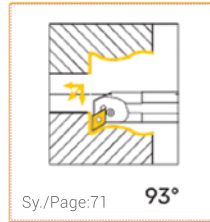
S...PCLNR/L



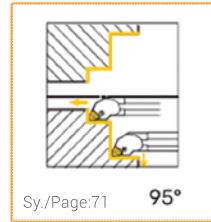
S...PDUNR/L



S...PTUNR

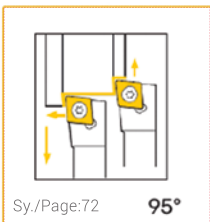


S...PWLNR/L

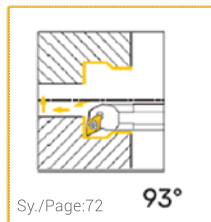


ANTI-VİBRASYON / ANTI-VIBRATION

SCLCR/L



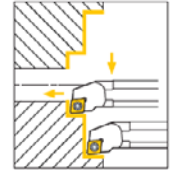
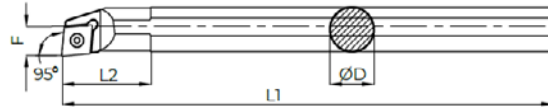
SDUCR/L



S TİPİ KATERLER / S TYPE TOOL HOLDER



CC**



95°

S.../A...SCLCR/L

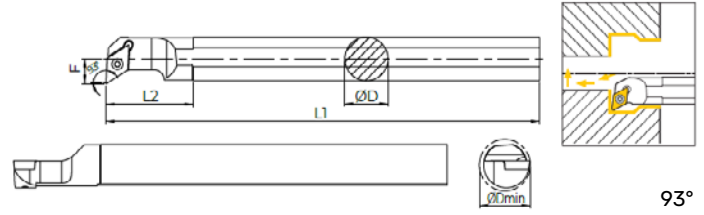
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Vida Screw | Anahtar Allen Key |
| S06-08H SCLCR/L-06 | ● | ● | 8 | 10 | 6 | 100 | 30 | CC.T 0602.. | - | - | SM2,5X5 | T08 |
| A06-08H SCLCR/L-06 | ● | ● | 8 | 10 | 6 | 100 | 30 | | | | | |
| S08H SCLCR/L-06 | ● | ● | 8 | 11 | 6 | 100 | 25 | | | | | |
| A08H SCLCR/L-06 | ● | ● | 8 | 11 | 6 | 100 | 25 | | | | | |
| S10K SCLCR/L-06 | ● | ● | 10 | 13 | 7 | 125 | 25 | | | | | |
| A10K SCLCR/L-06 | ● | ● | 10 | 13 | 7 | 125 | 25 | | | | | |
| S12K-SCLCR-06 | | ● | 12 | 12,5 | 7 | 125 | 25 | | | | | |
| S12M SCLCR/L-06 | ● | ● | 12 | 16 | 9 | 150 | 30 | | | | | |
| A12M SCLCR/L-06 | ● | ● | 12 | 16 | 9 | 150 | 30 | | | | | |
| S16Q SCLCR/L-06 | ● | ● | 16 | 20 | 11 | 180 | 35 | | | | | |
| A16Q SCLCR/L-06 | ● | ● | 16 | 20 | 11 | 180 | 35 | | | | | |
| S12M SCLCR/L-09 | ● | ● | 12 | 16 | 9 | 150 | 30 | | | | | |
| A12M SCLCR/L-09 | ● | ● | 12 | 16 | 9 | 150 | 30 | | | | | |
| S16Q SCLCR/L-09 | ● | ● | 16 | 20 | 11 | 180 | 35 | | | | | |
| A16Q SCLCR/L-09 | ● | ● | 16 | 20 | 11 | 180 | 35 | | | | | |
| S20R SCLCR/L-09 | ● | ● | 20 | 25 | 13 | 200 | 40 | | | | | |
| A20R SCLCR/L-09 | ● | ● | 20 | 25 | 13 | 200 | 40 | | | | | |
| S25S SCLCR/L-09 | ● | ● | 25 | 32 | 17 | 250 | 50 | | | | | |
| S32T SCLCR/L-09 | ● | ● | 32 | 40 | 23 | 300 | 60 | CC.T 1204.. | SCC125SM | SS060504M | SM4X11 | |
| S25S SCLCR/L-12 | ● | ● | 25 | 32 | 17 | 250 | 50 | | | | | |
| A25S SCLCR-12 | | ● | 25 | 32 | 17 | 250 | 50 | | | | | |
| S32T SCLCR/L-12 | ● | ● | 32 | 40 | 23 | 300 | 60 | | | | | |
| S40V SCLCR/L-12 | ● | ● | 40 | 50 | 27 | 400 | 70 | | | | | |

S TİPİ KATERLER / S TYPE TOOL HOLDER



DC**

S.../A...SDUCR/L



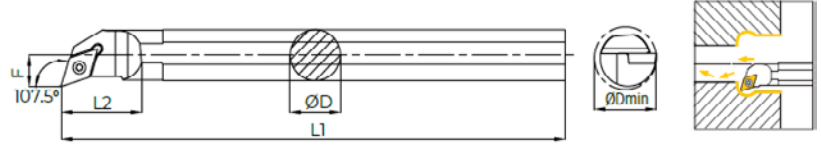
93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | |
|----------------------------|-----------------------------------|---|--|------|------|-----|----|--------------|-------------------------------|---------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Vida Screw | Anahtar Allen Key |
| S10K SDUCR/L-07 | • | • | 10 | 13 | 7,5 | 125 | 25 | DC.T 0702.. | - | - | SM2,5X5 | T08 |
| A10K SDUCR/L-07 | • | • | 10 | 13 | 7,5 | 125 | 25 | | | | | |
| S12M SDUCR/L-07 | • | • | 12 | 16 | 9 | 150 | 30 | | | | | |
| A12M SDUCR/L-07 | • | • | 12 | 16 | 9 | 150 | 30 | | | | | |
| S16Q SDUCR/L-07 | • | • | 16 | 20 | 11 | 180 | 35 | | | | | |
| S20R SDUCR/L-07 | • | • | 20 | 25 | 13 | 200 | 40 | | | | | |
| S25S SDUCR/L-07 | • | • | 25 | 32 | 17,5 | 250 | 50 | | | | | |
| S16Q SDUCR/L-11 | • | • | 16 | 20 | 11 | 180 | 35 | DC.T 11T3.. | - | - | SM3,5X8 | T15 |
| A16Q SDUCR/L-11 | • | • | 16 | 20 | 11 | 180 | 35 | | | | | |
| S20R SDUCR/L-11 | • | • | 20 | 25 | 13 | 200 | 40 | | | | | |
| A20R SDUCR/L-11 | • | • | 20 | 25 | 13 | 200 | 40 | | | | | |
| S25S SDUCR/L-11 | • | • | 25 | 32 | 17,5 | 250 | 50 | | | | | |
| A25R SDUCR/L-11 | • | • | 25 | 32 | 17,5 | 200 | 50 | | | | | |
| S32T SDUCR/L-11 | • | • | 32 | 40 | 23 | 300 | 60 | | | | | |
| S40V SDUCR/L-11 | • | • | 40 | 50 | 27 | 400 | 60 | SDC11SM | SS050535M | SM3,5X14 | | |

S TİPİ KATERLER / S TYPE TOOL HOLDER



DC**

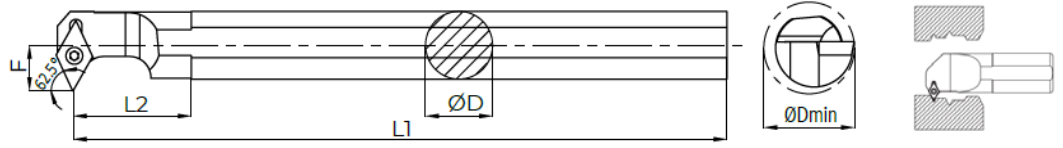


S.../A...SDQCR/L

107.5°

| Order Code | Stock Availability | | Dimensions (mm) | | | | | Insert | Spare Parts | | | |
|-----------------|--------------------|---|-----------------|------|------|-----|----|-------------|-------------|-------|---------|-----------|
| | L | R | D | Dmin | F | L1 | L2 | | Shim | Screw | Screw | Allen Key |
| S10K SDQCR/L-07 | • | • | 10 | 13 | 7,5 | 125 | 25 | DC.T 0702.. | - | - | SM2,5X5 | T08 |
| A10K SDQCR-07 | | • | 10 | 12 | 7,5 | 125 | 25 | | | | | |
| S12M SDQCR/L-07 | • | • | 12 | 16 | 9 | 150 | 30 | | | | | |
| A12M SDQCR-07 | | • | 12 | 16 | 9 | 150 | 30 | | | | | |
| S16Q SDQCR/L-07 | • | • | 16 | 20 | 11 | 180 | 35 | | | | | |
| S20R SDQCR/L-07 | • | • | 20 | 25 | 13 | 200 | 40 | | | | | |
| S25S SDQCR/L-07 | • | • | 25 | 32 | 17,5 | 250 | 50 | | | | | |
| S16Q SDQCR/L-11 | • | • | 16 | 20 | 11 | 180 | 35 | DC.T 11T3.. | - | - | SM3,5X8 | T15 |
| A16Q SDQCR-11 | | • | 16 | 20 | 11 | 180 | 35 | | | | | |
| S20R SDQCR/L-11 | • | • | 20 | 25 | 13 | 200 | 40 | | | | | |
| A20R SDQCR-11 | | • | 20 | 25 | 13 | 200 | 40 | | | | | |
| S25S SDQCR/L-11 | • | • | 25 | 32 | 17,5 | 250 | 50 | | | | | |
| S32T SDQCR/L-11 | • | • | 32 | 40 | 23 | 300 | 60 | | | | SDC11SM | |

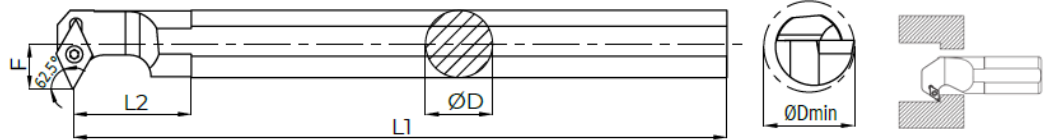
S TİPİ KATERLER / S TYPE TOOL HOLDER



S...SD-CR/L

62.5°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|------|-----|----|--------------|-------------------------------|---------------|---------------|----------------------|-----------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Vida Screw | Anahtar Allen Key | |
| S10K SD-CR/L-07 | • | • | 10 | 14 | 8,5 | 125 | 28 | DC.T 0702.. | - | - | SM2,5X5 | T08 | |
| S12M SD-CR/L-07 | • | • | 12 | 16 | 9 | 150 | 30 | | | | SM2,5X7 | | |
| S16Q SD-CR/L-07 | • | • | 16 | 23 | 14 | 180 | 40 | | | | SM3,5X8 | | |
| S16Q SD-CR/L-11 | • | • | 16 | 23 | 14 | 180 | 40 | DC.T 11T3.. | - | - | SM3,5X10 | T15 | |
| S20R SD-CR/L-11 | • | • | 20 | 25 | 14,5 | 200 | 45 | | | | SM3,5X14 | | |
| S25S SD-CR/L-11 | • | • | 25 | 32 | 19 | 250 | 55 | | | | SDC11SM | | SS050535M |
| S32T SD-CR/L-11 | • | • | 32 | 40 | 23 | 300 | 60 | | | | | | |
| S40V SD-CR/L-11 | • | • | 40 | 50 | 27 | 400 | 70 | | | | | | |

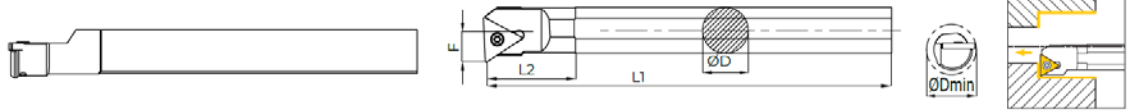


S...SDXCR/L

93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|------|-----|----|--------------|-------------------------------|---------------|---------------|----------------------|-----------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Vida Screw | Anahtar Allen Key | |
| S12M SDXCR/L-07 | • | • | 12 | 16 | 9 | 150 | 30 | DC.T 0702.. | - | - | M2,5X5 | T08 | |
| S16Q SDXCR/L-07 | • | • | 16 | 22 | 12,5 | 180 | 40 | | | | M2,5X7 | | |
| S16Q SDXCR/L-11 | • | • | 16 | 22 | 12,5 | 180 | 40 | | | | M3,5X8 | | |
| S20R SDXCR/L-11 | • | • | 20 | 25 | 14 | 200 | 55 | DC.T 11T3.. | - | - | M3,5X10 | T15 | |
| S25S SDXCR/L-11 | • | • | 25 | 32 | 17,5 | 250 | 65 | | | | M3,5X14 | | |
| S32T SDXCR/L-11 | • | • | 32 | 40 | 23 | 300 | 80 | | | | SDC11SM | | SS050535M |
| S40V SDXCR/L-11 | • | • | 40 | 50 | 27 | 400 | 80 | | | | | | |

S TİPİ KATERLER / S TYPE TOOL HOLDER



S...STFCR/L

90°

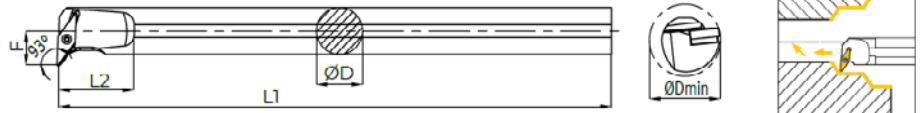
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | |
|----------------------------|-----------------------------------|---|--|------|------|-----|----|--------------|-------------------------------|---------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Vida Screw | Anahtar Allen Key |
| S12M STFCR-11 | | • | 12 | 15,5 | 9 | 150 | 30 | TC.T 11 | - | - | M2,5X6 | T08 |
| S16Q STFCR/L-16 | • | • | 16 | 20 | 11 | 180 | 35 | TC.T 16T3.. | - | - | SM3,5X8 | T15 |
| S20R STFCR/L-16 | • | • | 20 | 25 | 13 | 200 | 40 | | STC165M | SS050535M | SM3,5X11 | |
| S25S STFCR/L-16 | • | • | 25 | 32 | 17,5 | 250 | 50 | | | | | |
| S32T STFCR/L-16 | • | • | 32 | 40 | 23 | 300 | 60 | | | | | |



S...SVJBR/L

93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Vida Screw | Anahtar Allen Key |
| S25S SVJBR/L-16 | • | • | 25 | 32 | 17 | 250 | 50 | VBM. 1604.. | SVC16SM | SS050535M | SM3,5X11 | T15 |
| S32T SVJBR/L-16 | • | • | 32 | 40 | 23 | 300 | 80 | | | | | |
| S40V SVJBR-16 | | • | 40 | 50 | 27 | 400 | 80 | | | | | |

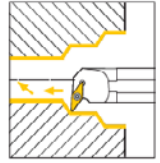
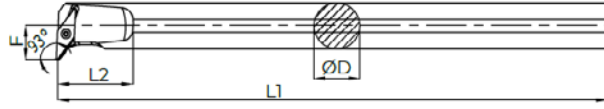
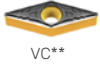


S...SVUBR/L

93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Vida Screw | Anahtar Allen Key |
| S16Q SVUBR/L-11 | • | • | 16 | 20 | 11 | 180 | 40 | VBM. 1103.. | - | - | SM2,5X7 | T08 |
| S20R SVUBR/L-11 | • | • | 20 | 25 | 13 | 200 | 40 | | | | | |
| S25S SVUBR/L-16 | • | • | 25 | 32 | 17 | 250 | 50 | VBM. 1604.. | SVB16SM | SS050535M | SM3,5X11 | T15 |
| S32T SVUBR/L-16 | • | • | 32 | 40 | 22 | 300 | 60 | | | | | |
| S40V SVUBR/L-16 | • | • | 40 | 50 | 27 | 400 | 70 | | | | | |

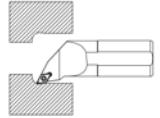
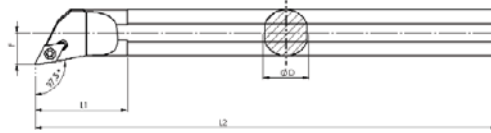
S TİPİ KATERLER / S TYPE TOOL HOLDER



93°

S...SVUCR/L

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Vida Screw | Anahtar Allen Key |
| S16Q SVUCR/L-11 | • | • | 16 | 20 | 11 | 180 | 40 | VCM. 1103.. | - | - | SM2,5X7 | T08 |
| S20R SVUCR/L-11 | • | • | 20 | 25 | 13 | 200 | 40 | | - | - | SM2,5X7 | T08 |
| S25S SVUCR/L-16 | • | • | 25 | 32 | 17 | 250 | 50 | VCM. 1604.. | SVC16SM | SS050535M | SM3,5X11 | T15 |
| S32T SVUCR/L-16 | • | • | 32 | 40 | 22 | 300 | 60 | | | | | |
| S40V SVUCR/L-16 | • | • | 40 | 50 | 27 | 400 | 70 | | | | | |



97.5°

S...SDPCR/L

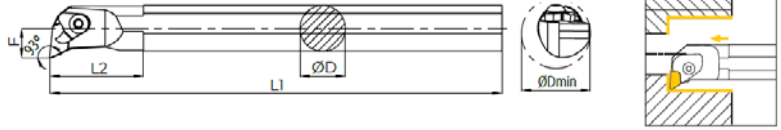
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | |
|----------------------------|-----------------------------------|---|--|------|------|-----|----|--------------|-------------------------------|---------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Vida Screw | Anahtar Allen Key |
| S10K SDPCR/L-07 | • | • | 10 | 13 | 7,5 | 125 | 25 | DC..T 0702 | - | - | M2,5X5 | T08 |
| S12M SDPCR/L-07 | • | • | 12 | 16 | 9 | 150 | 30 | | - | - | M2,5X5 | T08 |
| S16Q SDPCR/L-11 | • | • | 16 | 20 | 11 | 180 | 35 | DC..T 11T3 | - | - | M3,5X8 | T15 |
| S20R SDPCR/L-11 | • | • | 20 | 25 | 13 | 200 | 40 | | - | - | M3,5X8 | |
| S25S SDPCR/L-11 | • | • | 25 | 32 | 17,5 | 250 | 50 | | SDC11SM | SS050535M | M3,5X14 | |
| S32T SDPCR/L-11 | • | • | 32 | 40 | 23 | 300 | 60 | | | | | |

C TİPİ KATERLER / C TYPE TOOL HOLDER



KN**

S...CKUNR/L



93°

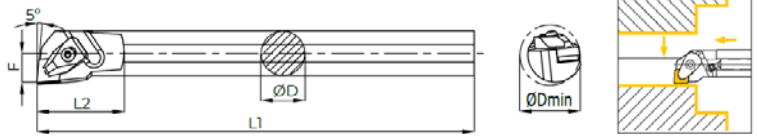
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------|----------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| S25S CKUNR/L-16 | • | • | 25 | 32 | 17 | 250 | 50 | KNUX 1604 | SKN16RCM SKN16LCM | SS0310M | CC0016M | CS0627M | A3 |
| S32T CKUNR/L-16 | • | • | 32 | 40 | 22 | 300 | 60 | | | | | | |
| S40V CKUNR/L-16 | • | • | 40 | 50 | 27 | 400 | 65 | | | | | | |
| S50W CKUNR-16 | | • | 50 | 63 | 35 | 450 | 70 | | | | | | |
| S50W CKUNR-16 | | • | 60 | 75 | 40 | 450 | 70 | | | | | | |

T TİPİ KATERLER / T TYPE TOOL HOLDER



CN**

S...TCLNR/L



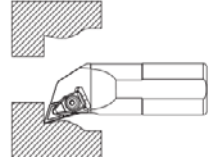
95°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------|----------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| S25S TCLNR/L-12 | • | • | 25 | 32 | 17 | 250 | 50 | CNM. 1204.. | SCN12TM | SS0410M | CT120105M | CS0620M | A3 |
| S32T TCLNR/L-12 | • | • | 32 | 40 | 22 | 300 | 60 | | | | | | |
| S40V TCLNR/L-12 | • | • | 40 | 50 | 27 | 400 | 70 | | | | | | |
| S32T TCLNR/L-16 | • | • | 32 | 40 | 22 | 300 | 60 | CNM. 1606.. | SCN16TM | SS0508M | CT160105M | CS0627M | |
| S40V TCLNR/L-16 | • | • | 40 | 40 | 27 | 400 | 70 | | | | | | |
| S50W TCLNR/L-16 | • | • | 50 | 63 | 35 | 450 | 75 | | | | | | |
| S60W TCLNR/L-16 | • | • | 60 | 75 | 40 | 450 | 75 | CNM. 1906.. | SCN19TM | SS0508M | CT190105M | CS0825M | A5 |
| S40V TCLNR/L-19 | • | • | 40 | 40 | 27 | 400 | 70 | | | | | | |
| S50W TCLNR-19 | | • | 50 | 63 | 35 | 450 | 75 | | | | | | |

T TİPİ KATERLER / T TYPE TOOL HOLDER



DN**



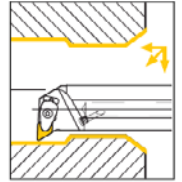
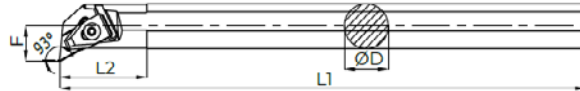
S...TDQNR/L

107.5°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------|----------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| S25S TDQNR/L-15 | • | • | 25 | 32 | 17 | 250 | 50 | DNM. 1506.. | SDN15TM | SS0410M | CT150105M | CS0627M | A3 |
| S32T TDQNR/L-15 | • | • | 32 | 40 | 22 | 300 | 60 | | | | | | |
| S40V TDQNR/L-15 | • | • | 40 | 50 | 27 | 400 | 70 | | | | | | |
| S50W TDQNR/L-15 | • | • | 50 | 63 | 35 | 450 | 75 | | | | | | |



DN**



S...TDUNR/L

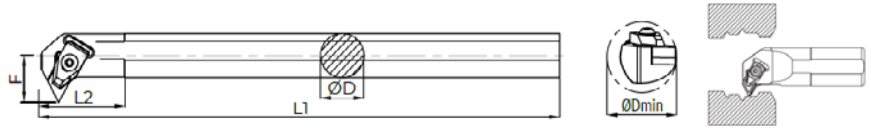
93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------|----------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| S20R TDUNR/L-11 | • | • | 20 | 25 | 13 | 200 | 40 | DNM. 1104.. | - | - | CT110105M | CS0523M | A3 |
| S25S TDUNR/L-15 | • | • | 25 | 32 | 17 | 250 | 50 | DNM. 1506.. | SDN15TM | SS0410M | CT150105M | CS0627M | |
| S32T TDUNR/L-15 | • | • | 32 | 40 | 22 | 300 | 60 | | | | | | |
| S40V TDUNR/L-15 | • | • | 40 | 50 | 27 | 400 | 70 | | | | | | |
| S50W TDUNR/L-15 | • | • | 50 | 63 | 35 | 450 | 75 | | | | | | |
| S60W TDUNR/L-15 | • | • | 60 | 75 | 40 | 450 | 75 | | | | | | |

T TİPİ KATERLER / T TYPE TOOL HOLDER



DN**



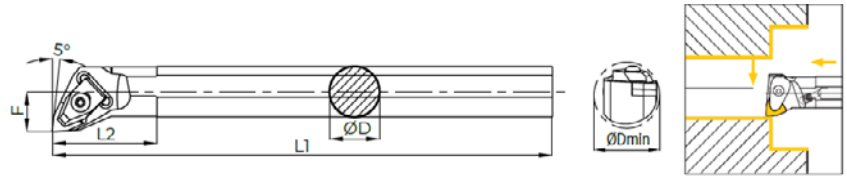
S...TD-NR/L

62.5°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|------|-----|----|--------------|-------------------------------|---------------|----------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| S32T TD-NR/L-15 | • | • | 32 | 43 | 26,5 | 300 | 60 | DNM. 1506 | SDN15TM | SS0410M | CT150105M | CS0627M | A3 |
| S40V TD-NR/L-15 | • | • | 40 | 50 | 29,5 | 400 | 70 | | | | | | |
| S50W TD-NR-15 | | • | 50 | 62 | 35 | 450 | 70 | | | | | | |



WN**



S...TWLNR/L

95°

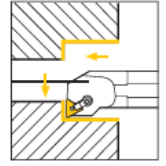
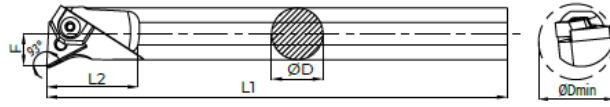
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------|----------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| S20R TW LNR/L-06 | • | • | 20 | 25 | 13 | 200 | 40 | W NM. 0602.. | - | - | CT06105M | CS0520M | A3 |
| A20R TW LNR/L-06 | • | • | 20 | 25 | 13 | 200 | 40 | | | | | | |
| S25S TW LNR/L-08 | • | • | 25 | 32 | 17 | 250 | 50 | | | | | | |
| A25S TW LNR/L-08 | • | • | 25 | 32 | 17 | 250 | 50 | W NM. 0804.. | SW N08TMM | SS0410M | CT080105M | CS0627M | |
| S32T TW LNR/L-08 | • | • | 32 | 40 | 22 | 300 | 60 | | | | | | |
| S40V TW LNR/L-08 | • | • | 40 | 50 | 27 | 400 | 70 | | | | | | |
| S50W TW LNR/L-08 | • | • | 50 | 63 | 35 | 450 | 75 | | | | | | |
| S60W TW LNR/L-08 | • | • | 60 | 75 | 40 | 450 | 75 | | | | | | |

M TİPİ KATERLER / M TYPE TOOL HOLDER



TN**

S...MTUNR/L



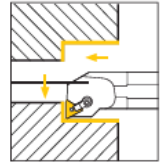
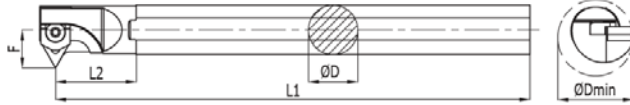
93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|------------------------|----------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Altık Pimi Shim Pim | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| S20R MTUNR/L-16 | • | • | 20 | 25 | 13 | 200 | 40 | TNM. 1604.. | - | - | CM0016M | CS0515M | A3 |
| S25S MTUNR/L-16 | • | • | 25 | 32 | 17 | 250 | 50 | | STN16TMM | SP0536125M | | CS0523M | |
| S32T MTUNR/L-16 | • | • | 32 | 40 | 22 | 300 | 60 | | | SP053615M | | | |
| S40V MTUNR/L-16 | • | • | 40 | 50 | 27 | 400 | 70 | | | | | | |
| S32T MTUNR/L-22 | • | • | 32 | 40 | 22 | 300 | 60 | TNM. 2204.. | STN22TMM | SP060515M | CM0022M | CS0627M | |
| S40V MTUNR/L-22 | • | • | 40 | 50 | 27 | 400 | 70 | | | | | | |
| S50W MTUNR/L-22 | • | • | 50 | 63 | 35 | 450 | 75 | | | | | | |



TN**

S...MT-NR/L



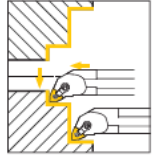
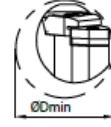
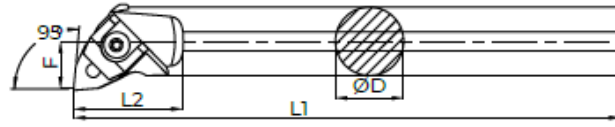
60°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|------|-----|----|--------------|-------------------------------|------------------------|----------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Altık Pimi Shim Pim | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| S20R MT-NR/L-16 | • | • | 20 | 25 | 16 | 200 | 40 | TNM. 1604.. | - | SP0536125M | CM0016M | CS0515M | A3 |
| S25S MT-NR/L-16 | • | • | 25 | 32 | 19,5 | 250 | 50 | | STN16TMM | SP053615M | | CS0523M | |
| S32T MT-NR/L-16 | • | • | 32 | 40 | 23 | 300 | 60 | | | | | | |
| S40V MT-NR/L-16 | • | • | 40 | 50 | 29,5 | 400 | 70 | | | | | | |
| S32T MT-NR-22 | | • | 32 | 40 | 23 | 300 | 55 | TNM. 2204.. | STN22TMM | SPTN22M | CM0022M | CS0627M | |
| S40V MT-NR-22 | | • | 40 | 50 | 29,5 | 400 | 70 | | | | | | |
| S50W MT-NR-22 | • | • | 50 | 32 | 35 | 450 | 70 | | | | | | |

M TİPİ KATERLER / M TYPE TOOL HOLDER



WN**



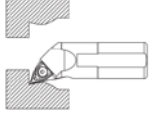
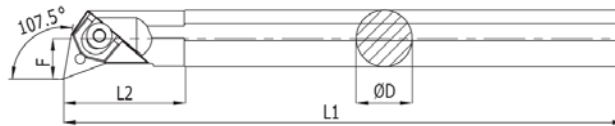
S...MWLNR/L

95°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|------------------------|----------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Altık Pimi Shim Pim | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| S16Q MWLNR/L-06 | • | • | 16 | 20 | 11 | 180 | -5 | W NM. 0604.. | - | SP053615M | CM0006M | CS0515M | A3 |
| S20R MWLNR/L-06 | • | • | 20 | 25 | 13 | 200 | -5 | | | | | | |
| S25S MWLNR/L-08 | • | • | 25 | 32 | 17 | 250 | -5 | W NM. 0804.. | SW N08TMM | SPW N08M | CM0008M | CS06620M | |
| S32T MWLNR/L-08 | • | • | 32 | 40 | 22 | 300 | -5 | | | | | | |
| S40V MWLNR/L-08 | • | • | 40 | 50 | 27 | 400 | -5 | | | | | | |
| S50W MWLNR/L-08 | • | • | 50 | 63 | 35 | 450 | -5 | | | | | | |



TN**



S...MTQNR/L

107.5°

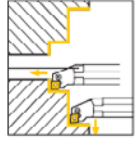
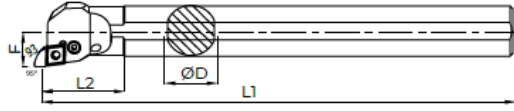
| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|------------------------|----------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Altık Pimi Shim Pim | Pabuç Clamp | Vida Screw | Anahtar Allen Key |
| S20R MTQNR/L-16 | • | • | 20 | 25 | 13 | 200 | 40 | TNMG 1604 | - | SP0536125M | CM0016M | CS515M | A3 |
| S25S MTQNR/L-16 | • | • | 25 | 32 | 17 | 250 | 50 | | | | | | |
| S232T MTQNR/L-16 | • | • | 32 | 40 | 22 | 300 | 60 | | | | | | |
| S40V MTQNR/L-16 | • | • | 40 | 50 | 27 | 400 | 70 | | | | | | |
| S32T MTQNR/L-22 | • | • | 32 | 40 | 22 | 300 | 60 | TNMG 2204 | STN22MM | SP06515M | CM0022M | CS627M | |
| S40V MTQNR/L-22 | • | • | 40 | 50 | 27 | 400 | 70 | | | | | | |

P TİPİ KATERLER / P TYPE TOOL HOLDER



CN**

S...PCLNR/L



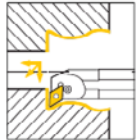
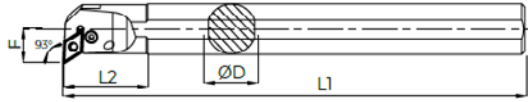
95°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------------------|---------------|------------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Altık Sacı Metal Sheet | Vida Screw | Levyeye Lever | Anahtar Allen Key |
| S25S PCLNR/L-12 | ● | ● | 25 | 32 | 17 | 250 | 50 | CNM. 1204.. | SCN12PM | SP012M | S00KM08M | LP012M | A3 |
| S32T PCLNR/L-12 | ● | ● | 32 | 40 | 22 | 300 | 60 | | | | | | |
| S40V PCLNR/L-12 | ● | ● | 40 | 50 | 27 | 400 | 70 | | | | | | |
| S32T PCLNR-16 | | ● | 32 | 40 | 22 | 300 | 60 | CNM. 1606.. | SCN16PM | SP016M | S00KM08M | LP016M | A3 |
| S40V PCLNR-16 | | ● | 40 | 50 | 27 | 400 | 70 | | | | | | |
| S40V PCLNR-19 | | ● | 40 | 50 | 27 | 400 | 70 | CNM. 1906.. | SCN19PM | SP019M | LP019M | A3 | |
| S50W PCLNR-19 | | ● | 50 | 63 | 35 | 400 | 75 | | | | | | |



DN**

S...PDUNR/L



93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------------------|---------------|------------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Altık Sacı Metal Sheet | Vida Screw | Levyeye Lever | Anahtar Allen Key |
| S25S PDUNR-15 | | ● | 25 | 32 | 17 | 250 | 50 | DNM. 1506.. | SDN15PM | SPM012M | S00KM8M | LP012M | A3 |
| S32T PDUNR-15 | | ● | 32 | 40 | 22 | 300 | 60 | | | | | | |
| S40V PDUNR-15 | | ● | 40 | 50 | 27 | 400 | 70 | | | | | | |
| S50W PDUNR-15 | | ● | 50 | 63 | 35 | 450 | 75 | | | | | | |

● Stok ürün - Stock item

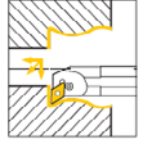
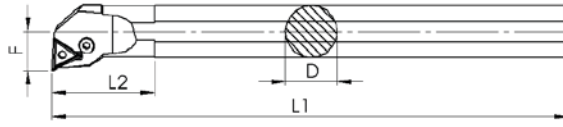
○ Stok dışı ürün - Non Stock item

▲ Özel Sipariş - Special order

P TİPİ KATERLER / P TYPE TOOL HOLDER



TN**



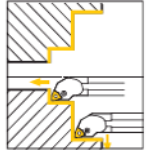
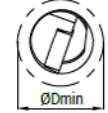
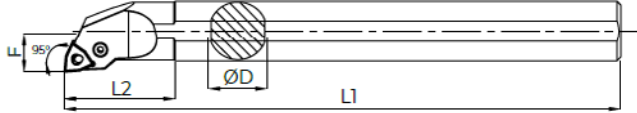
93°

S...PTUNR

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------------------|---------------|----------------|----------------------|--|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Altık Sacı Metal Sheet | Vida Screw | Levye Lever | Anahtar Allen Key | |
| S20R-PTUNR-16 | | • | 20 | 25 | 13 | 200 | 40 | TNMG 1604 | - | | | | | |
| S25S-PTUNR-16 | | • | 25 | 32 | 17 | 250 | 50 | TNMG 1604 | STN16PM | SP016M | S00KM8M | LP016M | | |
| S32T-PTUNR-16 | | • | 32 | 40 | 22 | 300 | 60 | | | | | | A3 | |
| S32T-PTUNR-22 | | • | 32 | 40 | 22 | 300 | 60 | | | | | | A3 | |
| S40V-PTUNR-22 | | • | 40 | 50 | 27 | 400 | 70 | TNM. 2204.. | STN22PM | SP022M | S00KM8U | LP022M | | |
| S50W-PTUNR-22 | | • | 50 | 63 | 35 | 450 | 75 | | | | | | | |



WN**



95°

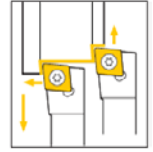
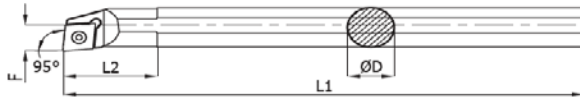
S...PWLNR/L

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------------------|---------------|----------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Altık Sacı Metal Sheet | Vida Screw | Levye Lever | Anahtar Allen Key |
| S25M-PWLNR-08 | | • | 25 | 32 | 17 | 250 | 50 | | | | | | |
| S32P-PWLNR-08 | | • | 32 | 40 | 22 | 300 | 60 | | | | | | |
| S40R-PWLNR-08 | | • | 40 | 50 | 27 | 400 | 70 | WNM. 0804.. | SWN08PM | SP008M | S00KM8M | LP012M | A3 |
| S50W-PWLNR-08 | | • | 50 | 63 | 35 | 450 | 75 | | | | | | |

ANTI-VİBRASYON TAKIMLAR / *ANTI-VIBRATION TOOLS*


CC**

SCLCR/L



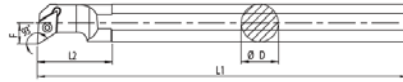
95°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | |
|----------------------------|-----------------------------------|---|--|------|----|-----|----|--------------|-------------------------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Anahtar Allen Key |
| C8H SCLCR/L-06 | Δ | Δ | 8 | 11 | 6 | 100 | 30 | CC.T 0602 | - | SM2,5X5 | T08 |
| C8K SCLCR/L-06 | Δ | Δ | 8 | 11 | 6 | 125 | 25 | | | | |
| C10K SCLCR-06 | | Δ | 10 | 13 | 7 | 125 | 25 | | | | |
| A10K SCLCR/L-06 | Δ | Δ | 10 | 13 | 7 | 125 | 25 | | | | |
| C12K SCLCR-06 | Δ | Δ | 12 | 16 | 9 | 125 | 30 | | | | |
| A12K SCLCR/L-06 | Δ | Δ | 12 | 16 | 9 | 125 | 30 | | | | |
| C16Q-SCLCR-09 | | Δ | 16 | 20 | 11 | 180 | 35 | CC.T 09T3 | - | SM3,5X8 | T15 |
| C18Q SCLCR-/09 | Δ | Δ | 18 | 20 | 11 | 180 | 35 | | | | |
| C20M SCLCR-09 | | Δ | 20 | 25 | 13 | 150 | 40 | | | | |
| C20Q SCLCR-09 | | Δ | 20 | 25 | 13 | 180 | 40 | | | | |
| A20Q SCLCR-09 | | Δ | 20 | 25 | 13 | 180 | 40 | | | | |



DC**

SDUCR/L




93°

| Sipariş Kodu Order Code | Stok Durumu Stock Availability | | Takım Ölçüleri (mm) Dimensions (mm) | | | | | Uç Insert | Yedek Parçalar Spare Parts | | |
|----------------------------|-----------------------------------|---|--|------|-----|-----|----|--------------|-------------------------------|---------------|----------------------|
| | L | R | D | Dmin | F | L1 | L2 | | Altık Shim | Vida Screw | Anahtar Allen Key |
| C10K SDUCR-07 | | Δ | 10 | 13 | 7,5 | 125 | 25 | DC.T 0702 | - | SM2,5X5 | T08 |
| A10K SDUCR/L-07 | Δ | Δ | 10 | 13 | 7,5 | 125 | 25 | | | | |
| C12K SDUCR/L-07 | Δ | Δ | 12 | 16 | 9 | 125 | 30 | | | | |
| A12K SDUCR/L-07 | Δ | Δ | 12 | 16 | 9 | 125 | 30 | | | | |
| C12M SDUCR-07 | | Δ | 12 | 16 | 9 | 150 | 30 | | | | |
| C16K SDUCR-11 | | Δ | 16 | 20 | 11 | 125 | 35 | DC.T 11T3 | - | SM3,5X8 | T15 |
| A16Q SDUCR/L-11 | Δ | Δ | 16 | 20 | 11 | 180 | 35 | | | | |
| C16Q SDUCR-11 | | Δ | 16 | 20 | 11 | 180 | 35 | | | | |
| C18Q SDUCR-11 | | Δ | 18 | 20 | 11 | 180 | 35 | | | | |
| C20K SDUCR-11 | | Δ | 20 | 25 | 13 | 125 | 40 | | | | |
| C20Q SDUCR-11 | | Δ | 20 | 25 | 13 | 180 | 40 | | | | |
| C20R SDUCR-11 | | Δ | 20 | 25 | 13 | 200 | 40 | | | | |

SERMET UÇLAR / *CERMET INSERTS*NEGATİF UÇLAR / *NEGATIVE INSERTS*

| Ölçü - <i>Dimension</i> | Boyut / <i>Size</i> | | |
|-------------------------|---------------------|------|----------------|
| | d | t | d ₁ |
| 12 | 12.7 | 4.76 | 5.16 |
| 16 | 15.875 | 6.35 | 6.35 |
| 19 | 19.05 | 6.35 | 7.93 |
| 25 | 25.4 | 9.52 | 9.12 |

CNGG

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | |
|---|------|-------------------------------|----------|--------------------------------|---------------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
|  | CPM1 | CNGG 120402R/L | 0.20-2.0 | 0.08-0.25 | Δ | Δ | | | | |
| | | CNGG 120404R/L | 0.24-2.4 | 0.10-0.25 | Δ | Δ | | | | |
| | | CNGG 120408R/L | 0.26-2.6 | 0.10-0.28 | Δ | Δ | | | | |

| Ölçü - <i>Dimension</i> | Boyut / <i>Size</i> | | |
|-------------------------|---------------------|-------------|----------------|
| | d | t | d ₁ |
| 11 | 9.525 | 4.76 | 3.81 |
| 15 | 12.7 | 4.76 / 6.35 | 5.16 |

DNGG

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | |
|---|----|-------------------------------|----------|--------------------------------|---------------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
|  | | DNGG 110402R/L | 0.50-2.5 | 0.12-0.20 | Δ | Δ | | | | |
| | | DNGG 110404R/L | 0.80-3.0 | 0.13-0.30 | Δ | Δ | | | | |
| | | DNGG 110408R/L | 0.50-2.5 | 0.12-0.20 | Δ | Δ | | | | |
| | | DNGG 150402R/L | 0.80-3.0 | 0.13-0.30 | Δ | Δ | | | | |
| | | DNGG 150404R/L | 0.50-2.5 | 0.12-0.20 | Δ | Δ | | | | |
| | | DNGG 150408R/L | 0.80-3.0 | 0.13-0.30 | Δ | Δ | | | | |

SERMET UÇLAR / *CERMET INSERTS*

 NEGATİF UÇLAR / *NEGATIVE INSERTS*

| Ölçü - Dimension | Boyut / Size | | |
|------------------|--------------|-------------|----------------|
| | d | t | d ₁ |
| 9 | 9.525 | 3.18 | 3.81 |
| 12 | 12.7 | 4.76 | 5.16 |
| 15 | 15.875 | 6.35 | 6.35 |
| 19 | 19.05 | 4.76 / 6.35 | 6.35 |
| 25 | 25.4 | 6.35 / 9.52 | 9.12 |

SNGG

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / Grades | | | | | |
|-------------------------------------|----|-------------------------------|----------|--------------------------------|--------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
| | | SNGG 090302R/L | 0.20-2.0 | 0.08-0.25 | Δ | Δ | | | | |
| | | SNGG 090304R/L | 0.24-2.4 | 0.10-0.25 | Δ | Δ | | | | |
| | | SNGG 090308R/L | 0.26-2.6 | 0.10-0.28 | Δ | Δ | | | | |
| | | SNGG 120402R/L | 0.24-2.4 | 0.10-0.25 | Δ | Δ | | | | |
| | | SNGG 120404R/L | 0.26-2.6 | 0.10-0.28 | Δ | Δ | | | | |
| | | SNGG 120408R/L | 0.24-2.4 | 0.10-0.25 | Δ | Δ | | | | |

| Ölçü - Dimension | Boyut / Size | | |
|------------------|--------------|------|----------------|
| | d | t | d ₁ |
| 16 | 9.525 | 4.76 | 3.81 |
| 22 | 12.7 | 4.76 | 5.16 |

TNGG

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / Grades | | | | | |
|-------------------------------------|----|-------------------------------|----------|--------------------------------|--------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
| | | TNGG 160402R/L | 0.20-2.0 | 0.08-0.25 | Δ | Δ | | | | |
| | | TNGG 160404R/L | 0.24-2.4 | 0.10-0.25 | Δ | Δ | | | | |
| | | TNGG 160408R/L | 0.26-2.6 | 0.10-0.28 | Δ | Δ | | | | |

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

▲ Özel Sipariş - Special order

SERMET UÇLAR / *CERMET INSERTS*NEGATİF UÇLAR / *NEGATIVE INSERTS*

| Ölçü - <i>Dimension</i> | Boyut / <i>Size</i> | | |
|-------------------------|---------------------|------|----------------|
| | d | t | d ₁ |
| 12 | 12.7 | 4.76 | 5.16 |
| 16 | 15.875 | 6.35 | 6.35 |
| 19 | 19.05 | 6.35 | 7.93 |
| 25 | 25.4 | 9.52 | 9.12 |

CNMG

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | | |
|-------------------------------------|-----|-------------------------------|-----------|--------------------------------|---------------------------|-------------|--------------|--------------|--------------|--------------|--|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) | |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 | |
| | CES | CNMG 120404 | 0.50-2.50 | 0.12-0.25 | ○ | | ○ | | | | |
| | | CNMG 120408 | 0.50-2.50 | 0.15-0.30 | ○ | | ○ | | | | |

| Ölçü - <i>Dimension</i> | Boyut / <i>Size</i> | | |
|-------------------------|---------------------|-------------|----------------|
| | d | t | d ₁ |
| 15 | 12.7 | 4.76 / 6.35 | 5.16 |

DNMG

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | | |
|-------------------------------------|-----|-------------------------------|-----------|--------------------------------|---------------------------|-------------|--------------|--------------|--------------|--------------|---|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) | |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 | |
| | VF | DNMG 150404R/L | 0.70-4.20 | 0.10-0.35 | ○ | | ○ | ○ | | | |
| | CES | DNMG 150404 | 0.05-0.30 | 0.80-3.50 | ○ | | | | | ○ | |
| | | DNMG 150408 | 0.08-0.40 | 0.80-4.00 | ○ | | | | | ○ | |
| | | DNMG 150604 | 0.05-0.30 | 0.80-4.00 | ○ | | | | | | ● |
| | | DNMG 150608 | 0.08-0.40 | 0.80-4.00 | ○ | | | | | | ● |

SERMET UÇLAR / *CERMET INSERTS*

 NEGATİF UÇLAR / *NEGATIVE INSERTS*

| Ölçü - Dimension | Boyut / Size | | |
|------------------|--------------|------|----------------|
| | d | t | d ₁ |
| 12 | 12.7 | 4.76 | 5.16 |

SNMG

| Ürün Görseli Insert Shape | CB | Uç Kodu Insert Code | ISO | | Kaliteler / Grades | | | | | |
|------------------------------|-----|------------------------|-----------|----------------------|--------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) (m/min) | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | CES | SNMG 120404 | 0.80-4.00 | 0.05-0.30 | ○ | | ○ | ○ | | |
| | | SNMG 120408 | 0.80-4.00 | 0.08-0.40 | ○ | | ○ | ○ | | |

| Ölçü - Dimension | Boyut / Size | | |
|------------------|--------------|------|----------------|
| | d | t | d ₁ |
| 16 | 9.525 | 4.76 | 3.81 |

TNMG

| Ürün Görseli Insert Shape | CB | Uç Kodu Insert Code | ISO | | Kaliteler / Grades | | | | | |
|------------------------------|-----|------------------------|-----------|----------------------|--------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) (m/min) | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | VF | TNMG 160404R/L | 0.50-3.20 | 0.10-0.30 | ● | | | | ○ | |
| | | TNMG 160408R/L | 0.50-4.0 | 0.10-0.30 | ○ | | | | ○ | |
| | CES | TNMG 160404 | 0.50-2.0 | 0.08-0.20 | ○ | | | | ○ | |
| | | TNMG 160408 | 0.50-2.0 | 0.10-0.25 | ● | | | | ● | |
| | CMT | TNMG 160404 | 1.00-4.00 | 0.20-0.40 | ○ | | | | ○ | |
| | | TNMG 160408 | 1.00-4.00 | 0.20-0.40 | ○ | | | | ○ | |

● Stok ürün - Stock item



○ Stok dışı ürün - Non Stock item

▲ Özel Sipariş - Special order

SERMET UÇLAR / *CERMET INSERTS*NEGATİF UÇLAR / *NEGATIVE INSERTS*



| Ölçü - <i>Dimension</i> | Boyut / <i>Size</i> | | |
|-------------------------|---------------------|------|----------------|
| | d | t | d ₁ |
| 16 | 9.525 | 4.76 | 3.81 |

VNMG

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | |
|--|-----|-------------------------------|-----------|--------------------------------|---------------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
|  | CES | VNMG 160404 | 0.50-3.50 | 0.10-0.40 | ○ | | ○ | | | |
| | | VNMG 160408 | 0.50-3.50 | 0.12-0.45 | ○ | | ○ | | | |
|  | CMT | VNMG 160404 | 1.00-4.00 | 0.20-0.40 | ○ | | ○ | | | |

| Ölçü - <i>Dimension</i> | Boyut / <i>Size</i> | | |
|-------------------------|---------------------|------|----------------|
| | d | t | d ₁ |
| 08 | 12.7 | 4.76 | 5.16 |

WNMG

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | |
|---|-----|-------------------------------|-----------|--------------------------------|---------------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
|  | CES | W NMG 080404 | 0.50-2.50 | 0.12-0.25 | ○ | | | | ○ | |
| | | W NMG 080408 | 0.50-2.50 | 0.12-0.25 | ○ | | | | ○ | |
|  | CMT | W NMG 080404 | 1.00-4.00 | 0.20-0.40 | ○ | | | | ○ | |
| | | W NMG 080408 | 1.00-4.00 | 0.20-0.40 | ○ | | | | ○ | |

SERMET UÇLAR / *CERMET INSERTS*

 POZİTİF UÇLAR / *POSITIVE INSERTS*

| Boyut / Size | | | |
|------------------|-------|------|----------------|
| Ölçü - Dimension | d | t | d ₁ |
| 06 | 6.35 | 2.38 | 2.8 |
| 09 | 9.525 | 3.97 | 4.4 |

CCGT

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | |
|-------------------------------------|----|-------------------------------|----------|--------------------------------|---------------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
| | | CCGT 060202R/L | 0.20-1.0 | 0.05-0.18 | | ○ | | | | △ |
| | | CCGT 060204R/L | 0.22-1.2 | 0.07-0.20 | | ○ | | | | △ |
| | | CCGT 09T302R/L | 0.25-1.5 | 0.10-0.22 | | ○ | | | | △ |
| | | CCGT 09T304R/L | 0.22-1.2 | 0.07-0.20 | | ○ | | | | △ |

| Boyut / Size | | | |
|------------------|-------|------|----------------|
| Ölçü - Dimension | d | t | d ₁ |
| 06 | 6.35 | 2.38 | 2.8 |
| 09 | 9.525 | 3.97 | 4.4 |

CCMT

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | |
|-------------------------------------|-----|-------------------------------|-----------|--------------------------------|---------------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
| | CFG | CCMT 060204 | 0.30-1.50 | 0.05-0.15 | ○ | | | ○ | | |
| | | CCMT 09T304 | 0.60-1.50 | 0.10-0.25 | ○ | | | ● | | |
| | | CCMT 09T308 | 0.60-1.50 | 0.10-0.25 | ○ | | | ○ | | |
| | CF1 | CCMT 060202 | 0.50-2.00 | 0.06-0.15 | ● | | | ○ | | |
| | | CCMT 060204 | 0.50-2.00 | 0.08-0.20 | ○ | | | ○ | | |
| | | CCMT 09T302 | 0.50-2.00 | 0.06-0.15 | ○ | | | ○ | | |
| | | CCMT 09T304 | 0.50-2.00 | 0.08-0.20 | ○ | | | ○ | | |
| | | CCMT 09T308 | 0.50-2.00 | 0.10-0.25 | ○ | | | ○ | | |

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

SERMET UÇLAR / *CERMET INSERTS*POZİTİF UÇLAR / *POSITIVE INSERTS*

| Ölçü - Dimension | Boyut / Size | | |
|------------------|--------------|------|----------------|
| | d | t | d ₁ |
| 07 | 6.35 | 2.38 | 2.8 |
| 11 | 9.525 | 3.97 | 4.4 |

DCGT

| Ürün Görseli Insert Shape | CB | Uç Kodu Insert Code | ISO | | Kaliteler / Grades | | | | | | |
|--|----|------------------------|-----------|----------------------|-------------------------|-------------|--------------|--------------|--------------|--------------|--------|
| | | | ap (mm) | Vc (m/dk) (m/min) | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) | |
| | | | | | fn (mm/dev) (mm/rev) | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
|  | | DCGT 070202R/L | 0.40-1.50 | 0.07-0.20 | ○ | | | | △ | | |
| | | DCGT 070204R/L | 0.40-1.50 | 0.07-0.20 | ○ | | | | △ | | |
| | | DCGT 11T302R/L | 0.40-1.50 | 0.07-0.20 | ○ | | | | △ | | |
| | | DCGT 11T304R/L | 0.60-1.50 | 0.10-0.25 | ○ | | | | △ | | |
| | | DCGT 11T308R/L | 0.60-1.50 | 0.10-0.25 | ○ | | | | △ | | |

| Ölçü - Dimension | Boyut / Size | | |
|------------------|--------------|------|----------------|
| | d | t | d ₁ |
| 07 | 6.35 | 2.38 | 2.8 |
| 11 | 9.525 | 3.97 | 4.4 |

DCMT

| Ürün Görseli Insert Shape | CB | Uç Kodu Insert Code | ISO | | Kaliteler / Grades | | | | | | |
|---|-----|------------------------|-----------|----------------------|-------------------------|-------------|--------------|--------------|--------------|--------------|--------|
| | | | ap (mm) | Vc (m/dk) (m/min) | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) | |
| | | | | | fn (mm/dev) (mm/rev) | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
|  | CFG | DCMT 070204 | 0.20-1.6 | 0.10-0.16 | ○ | ○ | | | | ○ | |
| | | DCMT 11T304 | 0.20-1.6 | 0.10-0.16 | ○ | ○ | | | | ● | |
| | | DCMT 11T308 | 0.22-2.0 | 0.12-0.20 | ○ | ○ | | | | ○ | |
|  | CF1 | DCMT 070202 | 0.50-2.00 | 0.06-0.12 | ○ | ○ | | | | ○ | |
| | | DCMT 070204 | 0.50-2.00 | 0.08-0.22 | ○ | ○ | | | | ○ | |
| | | DCMT 11T302 | 0.50-2.00 | 0.06-0.12 | ○ | ● | | | | ● | |
| | | DCMT 11T304 | 0.50-2.00 | 0.08-0.22 | ○ | ○ | | | | ○ | |
| | | DCMT 11T308 | 0.50-2.00 | 0.10-0.25 | ● | ○ | | | | ○ | |

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

SERMET UÇLAR / *CERMET INSERTS*

 POZİTİF UÇLAR / *POSITIVE INSERTS*

| Boyut / Size | | | |
|------------------|-------|------|----------------|
| Ölçü - Dimension | d | t | d ₁ |
| 09 | 9.525 | 3.97 | 4.4 |

SCMT

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | |
|-------------------------------------|-----|-------------------------------|-----------|--------------------------------|---------------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
| | CMT | SCMT 09T304 | 0.70-3.50 | 0.10-0.25 | ○ | | ● | | | |
| | | SCMT 09T308 | 0.70-3.50 | 0.10-0.25 | ○ | | ○ | | | |

| Boyut / Size | | | |
|------------------|------|------|----------------|
| Ölçü - Dimension | d | t | d ₁ |
| 06 | 3.97 | 1.59 | 2.16 |
| 11 | 6.35 | 3.22 | 3.3 |

TBGT

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | |
|-------------------------------------|----|-------------------------------|----------|--------------------------------|---------------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
| | | TBGT 060102R/L | 0.20-1.0 | 0.05-0.18 | Δ | | | | | Δ |
| | | TBGT 060104R/L | 0.22-1.2 | 0.07-0.20 | Δ | | | | | Δ |
| | | TBGH 110302R/L | 0.10-1.5 | 0.08-0.15 | Δ | | | | | Δ |
| | | TBGH 110304R/L | 0.20-1.6 | 0.10-0.16 | Δ | | | | | Δ |

● Stok ürün - Stock item


○ Stok dışı ürün - Non Stock item

Δ Özel Sipariş - Special order

SERMET UÇLAR / *CERMET INSERTS*POZİTİF UÇLAR / *POSITIVE INSERTS*


| Ölçü - <i>Dimension</i> | Boyut / <i>Size</i> | | |
|-------------------------|---------------------|------|----------------|
| | d | t | d ₁ |
| 11 | 6.35 | 2.38 | 2.8 |

TCGT

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | | |
|---|----|-------------------------------|----------|-----------------------------|--------------------------------|-------------|--------------|--------------|--------------|--------------|--------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) | |
| | | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
|  | | TCGT 110202R/L | 0.20-1.0 | 0.05-0.18 | Δ | Δ | | | | | |
| | | TCGT 110204R/L | 0.22-1.2 | 0.07-0.20 | Δ | Δ | | | | | |
| | | TCGT 110302R/L | 0.22-1.2 | 0.07-0.20 | Δ | Δ | | | | | |
| | | TCGT 110304R/L | 0.25-1.5 | 0.10-0.22 | Δ | Δ | | | | | |

| Ölçü - <i>Dimension</i> | Boyut / <i>Size</i> | | |
|-------------------------|---------------------|------|----------------|
| | d | t | d ₁ |
| 09 | 5.56 | 2.38 | 2.5 |
| 11 | 6.35 | 2.38 | 2.8 |
| 16 | 9.525 | 3.77 | 4.4 |

TCMT

| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | | |
|---|-----|-------------------------------|-----------|-----------------------------|--------------------------------|-------------|--------------|--------------|--------------|--------------|--------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) | |
| | | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
|  | CF1 | TCMT 090202 | 0.50-2.00 | 0.08-0.20 | | ○ | | | | | |
| | | TCMT 090204 | 0.50-2.00 | 0.08-0.20 | | ○ | | | | | |
| | | TCMT 110202 | 0.50-2.00 | 0.08-0.20 | ○ | | ○ | | | | |
| | | TCMT 110204 | 0.50-2.00 | 0.08-0.20 | ○ | | ○ | | | | |
| | | TCMT 110208 | 0.50-2.00 | 0.10-0.25 | ○ | | ○ | | | | |
| | | TCMT 16T304 | 0.50-2.00 | 0.10-0.25 | ○ | | ○ | | | | |
|  | CFG | TCMT 110204 | 0.40-1.50 | 0.07-0.20 | ○ | | ○ | | | | |
| | | TCMT 16T304 | 0.60-1.50 | 0.10-0.25 | ○ | | ○ | | | | |

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

SERMET UÇLAR / *CERMET INSERTS*

 POZİTİF UÇLAR / *POSITIVE INSERTS*

| Ölçü - Dimension | Boyut / Size | | |
|------------------|--------------|-------------|----------------|
| | d | t | d ₁ |
| 09 | 5.56 | 2.38 | 3.0 |
| 11 | 6.35 | 2.38 / 3.18 | 3.4 |

TPGT

| Ürün Görseli Insert Shape | CB | Uç Kodu Insert Code | ISO | | Kaliteler / Grades | | | | | | |
|------------------------------|----|------------------------|----------|----------------------|-------------------------|-------------|--------------|--------------|--------------|--------------|--------|
| | | | ap (mm) | Vc (m/dk) (m/min) | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) | |
| | | | | | fn (mm/dev) (mm/rev) | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
| | | TPGT 090202R/L | 0.30-1.2 | 0.10-0.20 | Δ | | Δ | | | | |
| | | TPGT 090204R/L | 0.30-1.2 | 0.10-0.20 | Δ | | Δ | | | | |
| | | TPGT 110302R/L | 0.30-1.2 | 0.10-0.20 | Δ | | Δ | | | | |
| | | TPGT 110304R/L | 0.30-1.2 | 0.10-0.20 | Δ | | Δ | | | | |
| | | TPGT 110308R/L | 0.50-1.2 | 0.10-0.20 | Δ | | Δ | | | | |

| Ölçü - Dimension | Boyut / Size | | |
|------------------|--------------|-------------|----------------|
| | d | t | d ₁ |
| 11 | 6.35 | 2.38 / 3.18 | 3.4 |

TPMT

| Ürün Görseli Insert Shape | CB | Uç Kodu Insert Code | ISO | | Kaliteler / Grades | | | | | |
|------------------------------|-----|------------------------|-----------|----------------------|-------------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) (m/min) | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | | | | | fn (mm/dev) (mm/rev) | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 |
| | CF1 | TPMT 110304 | 0.20-1.60 | 0.10-0.16 | | ○ | | | ● | |
| | | TPMT 110308 | 0.22-2.00 | 0.12-0.20 | | ○ | | | ○ | |

● Stok ürün - Stock item


○ Stok dışı ürün - Non Stock item

Δ Özel Sipariş - Special order

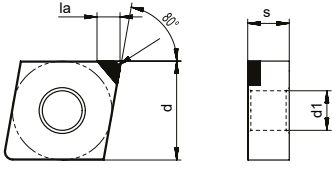
SERMET UÇLAR / *CERMET INSERTS*POZİTİF UÇLAR / *POSITIVE INSERTS*

| Ölçü - <i>Dimension</i> | Boyut / <i>Size</i> | | |
|-------------------------|---------------------|------|----------------|
| | d | t | d ₁ |
| 11 | 6.35 | 3.18 | 2.8 |
| 16 | 9.525 | 4.76 | 4.4 |

VBMT

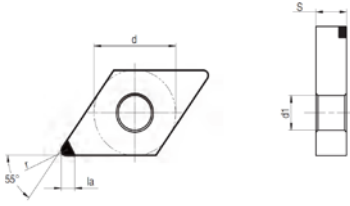
| Ürün Görseli <i>Insert Shape</i> | CB | Uç Kodu <i>Insert Code</i> | ISO | | Kaliteler / <i>Grades</i> | | | | | |
|---|-----|-------------------------------|-----------|--------------------------------|---------------------------|-------------|--------------|--------------|--------------|--------------|
| | | | ap (mm) | Vc (m/dk) <i>(m/min)</i> | 220(150-300) | 100(70-200) | 250(150-310) | 250(150-310) | 150(100-280) | 150(100-280) |
| | | | | fn (mm/dev) <i>(mm/rev)</i> | CN7610 | CN7620 | CP1610 | CP4610 | CP1620 | CP4620 |
|  | CF1 | VBMT 110304 | 0.50-2.00 | 0.08-0.20 | | ○ | | | ○ | |
| | | VBMT 160404 | 0.50-2.00 | 0.08-0.20 | | ○ | ● | | ○ | |

CBN KESİCİ UÇLAR / *CBN INSERTS*


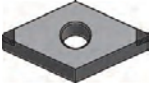
 Negatif / *Negative 80°(CN)*


| Boyut / <i>Size (mm)</i> | | | | |
|--------------------------|------|------|-----|------|
| Ölçü / <i>Dimensions</i> | d | s | la | d1 |
| CN_1204_ | 12,7 | 4,76 | 3,0 | 5,16 |

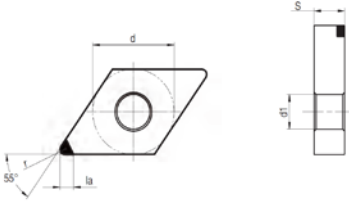
| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | r (mm) | Önerilen Kesme Koşulları <i>Recommended Cutting Parameters</i> | | Kaliteler <i>Grades</i> | | |
|-------------------------|-------------------------------|--------|---|----------|----------------------------|--------|--------|
| | | | f (mm/rev) | ap (mm) | BN7405 | BN7415 | BN7208 |
| | CNGA 120402 S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | CNGA 120404 S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | CNGA 120408 S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | CNGA 120412 S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-CNGA 120402 S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-CNGA 120404 S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-CNGA 120408 S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-CNGA 120412 S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 4C-CNGA 120402 S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-CNGA 120404 S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-CNGA 120408 S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-CNGA 120412 S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |

CBN KESİCİ UÇLAR / *CBN INSERTS*Negatif / *Negative 55°(DN)*

| Ölçü / Dimensions | Boyut / Size (mm) | | | |
|----------------------|-------------------|------|-----|------|
| | d | s | la | d1 |
| DN_1504_ | 12,7 | 4,76 | 3,0 | 5,16 |
| DN_1506_ | 12,7 | 6,35 | 3,0 | 5,16 |

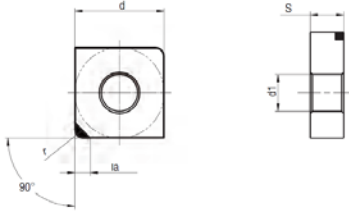
| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kaliteler Grades | | |
|---|------------------------|--------|--|----------|---------------------|--------|--------|
| | | | f (mm/rev) | ap (mm) | BN7405 | BN7415 | BN7208 |
|  | DNGA 150402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | DNGA 150404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | DNGA 150408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | DNGA 150412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | DNGA 150602-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | DNGA 150604-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | DNGA 150608-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | DNGA 150612-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
|  | 2C-DNGA 150402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-DNGA 150404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-DNGA 150408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-DNGA 150412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-DNGA 150602-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-DNGA 150604-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-DNGA 150608-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-DNGA 150612-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |

CBN KESİCİ UÇLAR / *CBN INSERTS*




 Negatif / *Negative 55°(DN)*


| Ölçü / Dimensions | Boyut / Size (mm) | | | |
|----------------------|-------------------|------|-----|------|
| | d | s | la | d1 |
| DN_1504_ | 12,7 | 4,76 | 3,0 | 5,16 |
| DN_1506_ | 12,7 | 6,35 | 3,0 | 5,16 |

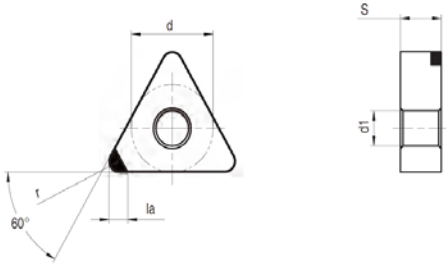
| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kaliteler Grades | | |
|------------------|------------------------|--------|--|----------|---------------------|--------|--------|
| | | | f (mm/rev) | ap (mm) | BN7405 | BN7415 | BN7208 |
| | 4C-DNGA 150402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-DNGA 150404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-DNGA 150408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-DNGA 150412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-DNGA 150602-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-DNGA 150604-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-DNGA 150608-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-DNGA 150612-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |

CBN KESİCİ UÇLAR / *CBN INSERTS*Negatif / *Negative 90°(SN)*

| Boyut / <i>Size (mm)</i> | | | | |
|--------------------------|------|------|-----|------|
| Ölçü / <i>Dimensions</i> | d | s | la | d1 |
| SN_1204_ | 12,7 | 4,76 | 3,0 | 5,16 |

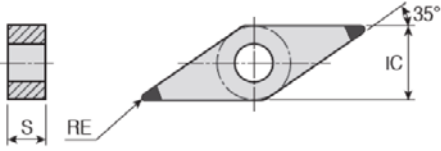
| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kaliteler Grades | | |
|---|------------------------|--------|--|----------|---------------------|--------|--------|
| | | | f (mm/rev) | ap (mm) | BN7405 | BN7415 | BN7208 |
|  | SNGA 120402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | SNGA 120404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | SNGA 120408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | SNGA 120412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
|  | 4C-SNGA 120402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-SNGA 120404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 4C-SNGA 120408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 4C-SNGA 120412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
|  | 8C-SNGA 120402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 8C-SNGA 120404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 8C-SNGA 120408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 8C-SNGA 120412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |

CBN KESİCİ UÇLAR / *CBN INSERTS*




 Negatif / *Negative 60°(TN)*


| Boyut / <i>Size (mm)</i> | | | | |
|--------------------------|------|------|-----|------|
| Ölçü / <i>Dimensions</i> | d | s | la | d1 |
| TN_1604_ | 9,52 | 4,76 | 3,0 | 3,81 |

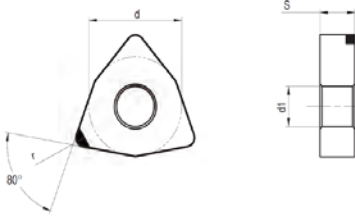
| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | r (mm) | Önerilen Kesme Koşulları <i>Recommended Cutting Parameters</i> | | Kaliteler <i>Grades</i> | | |
|-------------------------|-------------------------------|--------|---|----------|----------------------------|--------|--------|
| | | | f (mm/rev) | ap (mm) | BN7405 | BN7415 | BN7208 |
| | TNGA 160402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | TNGA 160404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | TNGA 160408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | TNGA 160412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-TNGA 160402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 3C-TNGA 160404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-TNGA 160408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-TNGA 160412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 6C-TNGA 160402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 6C-TNGA 160404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 6C-TNGA 160408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 6C-TNGA 160412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |

CBN KESİCİ UÇLAR / *CBN INSERTS*Negatif / *Negative 35°(VN)*

| Boyut / <i>Size (mm)</i> | | | | |
|--------------------------|-------|------|-----|------|
| Ölçü / <i>Dimensions</i> | d | s | la | d1 |
| VN_1604_ | 9,525 | 4,76 | 3,0 | 3,81 |

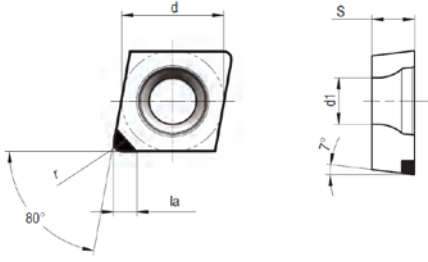
| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | r (mm) | Önerilen Kesme Koşulları <i>Recommended Cutting Parameters</i> | | Kaliteler <i>Grades</i> | | |
|---|-------------------------------|--------|---|----------|----------------------------|--------|--------|
| | | | f (mm/rev) | ap (mm) | BN7405 | BN7415 | BN7208 |
|  | VNGA 160402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | VNGA 160404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | VNGA 160408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | VNGA 160412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
|  | 2C-VNGA 160402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-VNGA 160404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-VNGA 160408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-VNGA 160412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
|  | 4C-VNGA 160402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-VNGA 160404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 4C-VNGA 160408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 4C-VNGA 160412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |

CBN KESİCİ UÇLAR / *CBN INSERTS*


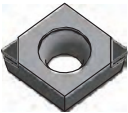
 Negatif / *Negative 80°(WN)*


| Boyut / <i>Size (mm)</i> | | | | |
|--------------------------|-------|------|-----|------|
| Ölçü / <i>Dimensions</i> | d | s | la | d1 |
| VN_1604_ | 9,525 | 4,76 | 3,0 | 3,81 |

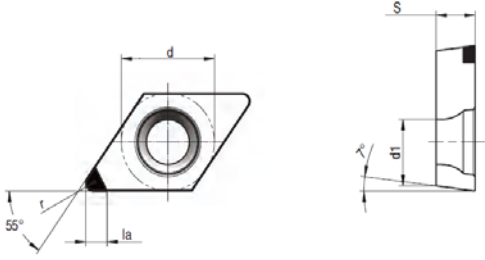
| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | r (mm) | Önerilen Kesme Koşulları <i>Recommended Cutting Parameters</i> | | Kaliteler <i>Grades</i> | | |
|-------------------------|-------------------------------|--------|---|----------|----------------------------|--------|--------|
| | | | f (mm/rev) | ap (mm) | BN7405 | BN7415 | BN7208 |
| | W NGA 080402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | W NGA 080404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | W NGA 080408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | W NGA 080412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-W NGA 080402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 3C-W NGA 080404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-W NGA 080408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-W NGA 080412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 6C-W NGA 080402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 6C-W NGA 080404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 6C-W NGA 080408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 6C-W NGA 080412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |

CBN KESİCİ UÇLAR / *CBN INSERTS*Pozitif / *Positive 80°(CC)*

| Boyut / <i>Size (mm)</i> | | | | |
|--------------------------|------|------|-----|------|
| Ölçü / <i>Dimensions</i> | d | s | la | d1 |
| CC_0602_ | 6,35 | 2,38 | 3,0 | 2,80 |
| CC_09T3_ | 9,52 | 3,97 | 3,0 | 4,40 |
| CC_1204_ | 12,7 | 4,76 | 3,0 | 5,50 |

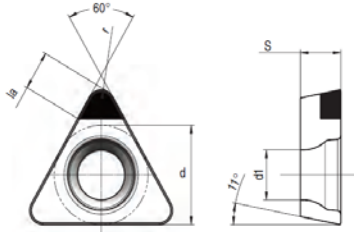
| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | r (mm) | Önerilen Kesme Koşulları <i>Recommended Cutting Parameters</i> | | Kaliteler <i>Grades</i> | | |
|---|-------------------------------|--------|---|----------|----------------------------|--------|--------|
| | | | f (mm/rev) | ap (mm) | BN7405 | BN7415 | BN7208 |
|  | CCGW 060202-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | CCGW 060204-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | CCGW 060208-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | CCGW 09T302-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | CCGW 09T304-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | CCGW 09T308-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | CCGW 120402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | CCGW 120404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | CCGW 120408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | CCGW 120412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
|  | 2C-CCGW 060202-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-CCGW 060204-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-CCGW 060208-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-CCGW 09T302-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-CCGW 09T304-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-CCGW 09T308-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-CCGW 120402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-CCGW 120404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-CCGW 120408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-CCGW 120412-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |

CBN KESİCİ UÇLAR / *CBN INSERTS*

 Pozitif / *Positive 55°(DC)*


| Ölçü / Dimensions | Boyut / Size (mm) | | | |
|----------------------|-------------------|------|-----|------|
| | d | s | la | d1 |
| DC_0702_ | 6,35 | 2,38 | 3,0 | 2,80 |
| DC_11T3_ | 9,52 | 3,97 | 3,0 | 4,40 |

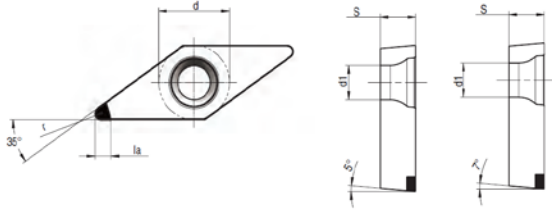
| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kaliteler Grades | | |
|------------------|------------------------|--------|--|----------|---------------------|--------|--------|
| | | | f (mm/rev) | ap (mm) | BN7405 | BN7415 | BN7208 |
| | DCGW 070202-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | DCGW 070204-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | DCGW 070208-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | DCGW 11T302-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | DCGW 11T304-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | DCGW 11T308-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | DCGW 11T312-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-DCGW 070202-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-DCGW 070204-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-DCGW 070208-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-DCGW 11T302-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-DCGW 11T304-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-DCGW 11T308-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-DCGW 11T312-S01020 | 1,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |

CBN KESİCİ UÇLAR / *CBN INSERTS*Pozitif / *Positive 60°(TP)*

| Ölçü / <i>Dimensions</i> | Boyut / <i>Size (mm)</i> | | | |
|-----------------------------|--------------------------|------|-----|------|
| | d | s | la | d1 |
| TP_0802_ | 4,76 | 2,38 | 3,0 | 2,40 |
| TP_1102_ | 6,35 | 2,38 | 4,0 | 2,80 |
| TP_1103_ | 6,35 | 3,18 | 4,0 | 3,40 |
| TP_1604_ | 9,52 | 4,76 | 3,0 | 4,40 |

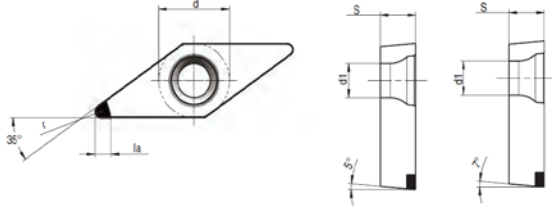
| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | r (mm) | Önerilen Kesme Koşulları <i>Recommended Cutting Parameters</i> | | Kaliteler <i>Grades</i> | | |
|-------------------------|-------------------------------|--------|---|----------|----------------------------|--------|--------|
| | | | f (mm/rev) | ap (mm) | BN7405 | BN7415 | BN7208 |
| | TPGW 080202-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | TPGW 080204-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | TPGW 090202-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | TPGW 090204-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | TPGW 090208-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | TPGW 110302-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | TPGW 110304-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | TPGW 160402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | TPGW 160404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | TPGW 160408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 3C-TPGW 080202-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-TPGW 080204-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-TPGW 090202-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-TPGW 090204-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-TPGW 090208-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-TPGW 110302-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-TPGW 110304-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 3C-TPGW 160402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 3C-TPGW 160404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 3C-TPGW 160408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |

CBN KESİCİ UÇLAR / *CBN INSERTS*



 Pozitif / *Positive 35°(V)*


| Ölçü / Dimensions | Boyut / Size (mm) | | | |
|----------------------|-------------------|------|-----|------|
| | d | s | la | d1 |
| VB_1103_ | 6,35 | 3,18 | 3,0 | 2,80 |
| VB_1604_ | 9,52 | 4,76 | 3,0 | 4,40 |
| VC_1103_ | 6,35 | 3,18 | 3,0 | 2,80 |
| VC_1604_ | 9,52 | 4,76 | 3,0 | 4,40 |

| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kaliteler Grades | | |
|------------------|------------------------|--------|--|----------|---------------------|--------|--------|
| | | | f (mm/rev) | ap (mm) | BN7405 | BN7415 | BN7208 |
| | VBGW 110302-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | VBGW 110304-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | VBGW 110308-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | VBGW 160402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | VBGW 160404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | VBGW 160408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | 2C-VBGW 110302-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-VBGW 110304-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-VBGW 110308-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-VBGW 160402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-VBGW 160404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-VBGW 160408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |

CBN KESİCİ UÇLAR / *CBN INSERTS*Pozitif / *Positive 35°(V)*

| Ölçü / Dimensions | Boyut / Size (mm) | | | |
|----------------------|-------------------|------|-----|------|
| | d | s | la | d1 |
| VB_1103_ | 6,35 | 3,18 | 3,0 | 2,80 |
| VB_1604_ | 9,52 | 4,76 | 3,0 | 4,40 |
| VC_1103_ | 6,35 | 3,18 | 3,0 | 2,80 |
| VC_1604_ | 9,52 | 4,76 | 3,0 | 4,40 |

| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kaliteler Grades | | |
|---|------------------------|--------|--|----------|---------------------|--------|--------|
| | | | f (mm/rev) | ap (mm) | BN7405 | BN7415 | BN7208 |
|  | VCGW 110302-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | VCGW 110304-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | VCGW 110308-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | VCGW 160402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | VCGW 160404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
| | VCGW 160408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ● | ● | ● |
|  | 2C-VCGW 110302-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-VCGW 110304-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-VCGW 110308-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-VCGW 160402-S01020 | 0,2 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-VCGW 160404-S01020 | 0,4 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |
| | 2C-VCGW 160408-S01020 | 0,8 | 0.03-0.3 | 0.05-0.5 | ○ | ○ | ○ |

CBN KESİCİ UÇLAR / *CBN INSERTS*

Solid CBN

CNGN

| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | Ölçüler / <i>Dimensions</i> (mm) | | | Kaliteler / <i>Grades</i> | |
|-------------------------|-------------------------------|----------------------------------|------|-----|---------------------------|--------|
| | | I.C. | T | r | BS7204 | BP2204 |
| | CNGN 120408 | 12,70 | 4,76 | 0,8 | ● | ○ |
| | CNGN 120412 | 12,70 | 4,76 | 1,2 | ● | ○ |

SNGN

| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | Ölçüler / <i>Dimensions</i> (mm) | | | Kaliteler / <i>Grades</i> | |
|-------------------------|-------------------------------|----------------------------------|------|-----|---------------------------|--------|
| | | I.C. | T | r | BS7204 | BP2204 |
| | SNGN 090304 | 9,53 | 3,18 | 0,4 | ○ | ○ |
| | SNGN 090308 | 9,53 | 3,18 | 0,8 | ○ | ○ |
| | SNGN 120404 | 12,70 | 4,76 | 0,4 | ○ | ○ |
| | SNGN 120408 | 12,76 | 4,76 | 0,8 | ● | ○ |
| | SNGN 120412 | 12,76 | 4,76 | 1,2 | ● | ○ |

TNGN

| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | Ölçüler / <i>Dimensions</i> (mm) | | | Kaliteler / <i>Grades</i> | |
|-------------------------|-------------------------------|----------------------------------|------|-----|---------------------------|--------|
| | | I.C. | T | r | BS7204 | BP2204 |
| | TNGN 160408 | 9,53 | 4,76 | 0,8 | ● | ○ |
| | TNGN 160412 | 9,53 | 4,76 | 1,2 | ● | ○ |

● Stock item

○ Non Stock item

▲ Special order

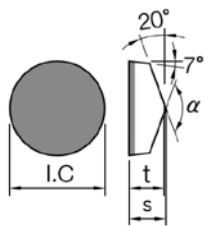
PCD KESİCİ UÇLAR / *PCD INSERTS*

Solid CBN

RNGN

| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | Ölçüler / <i>Dimensions</i> (mm) | | | Kaliteler / <i>Grades</i> | | |
|---|-------------------------------|----------------------------------|------|---|---------------------------|--------|--------|
| | | I.C. | T | r | BS7404 | BS7204 | BP2204 |
|  | RNGN 060300 | 6,35 | 3,18 | | ○ | ○ | ○ |
| | RNGN 090300 | 9,53 | 3,18 | | ○ | ○ | ○ |
| | RNGN 090400 | 9,53 | 4,76 | | ○ | ○ | ○ |
| | RNGN 120300 | 12,70 | 3,18 | | ○ | ○ | ○ |
| | RNGN 120400 | 12,70 | 4,76 | | ○ | ○ | ○ |

RCGX

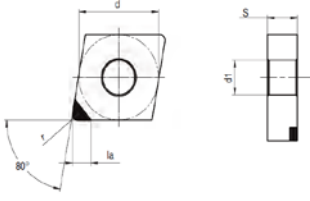
| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | Ölçüler / <i>Dimensions</i> (mm) | | | | Kaliteler / <i>Grades</i> | | |
|---|-------------------------------|----------------------------------|------|------|----------|---------------------------|--------|--------|
| | | I.C. | t | s | α | BN7405 | BN7415 | BN7208 |
|  | RCGX 060300 | 6,35 | 3,18 | 3,32 | 140° | ● | ● | ○ |
| | RCGX 090300 | 9,525 | 3,18 | 3,32 | 140° | ● | ● | ○ |
| | RCGX 090700 | 9,53 | 7,7 | 7,94 | 120° | ○ | ○ | ○ |
| | RCGX 120400 | 12,700 | 4,76 | 4,94 | 140° | ● | ● | ○ |
| | RCGX 120700 | 12,70 | 7,7 | 7,94 | 140° | ○ | ○ | ○ |
| | RCGX 191000 | 19,050 | 9,77 | 10 | 120° | ○ | ○ | ○ |

Full Face CBN

RCGX

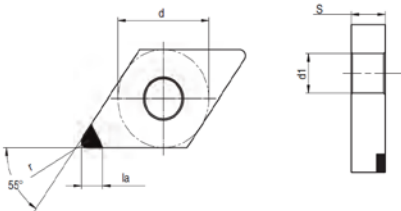
| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | Ölçüler / <i>Dimensions</i> (mm) | | | | Kaliteler / <i>Grades</i> | | |
|---|-------------------------------|----------------------------------|------|------|----------|---------------------------|--------|--------|
| | | I.C. | t | T | α | BS7404 | BS7204 | BP2204 |
|  | RCGX 060300 | 6,35 | 3,18 | 3,32 | 140° | ● | ● | ○ |
| | RCGX 090300 | 9,525 | 3,18 | 3,32 | 140° | ● | ● | ○ |
| | RCGX 090700 | 9,53 | 7,7 | 7,94 | 120° | ● | ○ | ○ |
| | RCGX 120400 | 12,700 | 4,76 | 4,94 | 140° | ● | ● | ○ |
| | RCGX 120700 | 12,70 | 7,7 | 7,94 | 140° | ● | ○ | ○ |
| | RCGX 191000 | 19,050 | 9,77 | 10 | 120° | ○ | ○ | ○ |

PCD KESİCİ UÇLAR / *PCD INSERTS*

 Negatif / *Negative 80°(CN)*


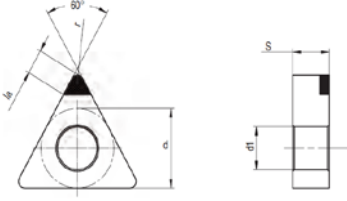
| Ölçü / Dimensions | Boyut / Size (mm) | | | |
|----------------------|-------------------|------|-----|------|
| | d | s | la | d1 |
| CN_1204_ | 12,7 | 4,76 | 3,0 | 5,16 |

| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kalite Grades |
|------------------|------------------------|--------|--|----------|------------------|
| | | | f (mm/rev) | ap (mm) | DN7505 |
| | CNGA 120402 | 0,2 | 0.03-0.2 | 0.05-0.5 | ○ |
| | CNGA 120404 | 0,4 | 0.03-0.2 | 0.05-0.5 | ● |
| | CNGA 120408 | 0,8 | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-CNGA 120402 | 0,2 | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-CNGA 120404 | 0,4 | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-CNGA 120408 | 0,8 | 0.03-0.2 | 0.05-0.5 | ● |

 Negatif / *Negative 55°(DN)*


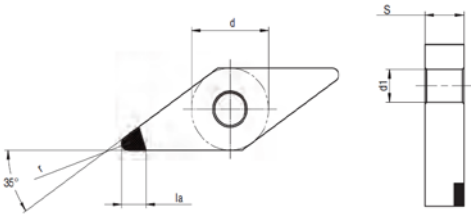
| Ölçü / Dimensions | Boyut / Size (mm) | | | |
|----------------------|-------------------|------|-----|------|
| | d | s | la | d1 |
| DN_1504_ | 12,7 | 4,76 | 3,0 | 5,16 |

| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kalite Grades |
|------------------|------------------------|--------|--|----------|------------------|
| | | | f (mm/rev) | ap (mm) | DN7505 |
| | DNGA 150402 | 0,2 | 0.03-0.2 | 0.05-0.5 | ● |
| | DNGA 150404 | 0,4 | 0.03-0.2 | 0.05-0.5 | ● |
| | DNGA 150408 | 0,8 | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-DNGA 150402 | 0,2 | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-DNGA 150404 | 0,4 | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-DNGA 150408 | 0,8 | 0.03-0.2 | 0.05-0.5 | ○ |

PCD KESİCİ UÇLAR / *PCD INSERTS*Negatif / *Negative 60°(TN)*

| Ölçü / Dimensions | Boyut / Size (mm) | | | |
|----------------------|-------------------|------|-----|------|
| | d | s | la | d1 |
| TN_1604_ | 9,52 | 4,76 | 3,0 | 3,81 |

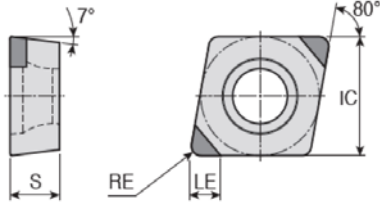
| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kalite Grades |
|------------------|------------------------|--------|--|----------|------------------|
| | | | f (mm/rev) | ap (mm) | DN7505 |
| | TNGA 160402 | 0,2 | 0.03-0.2 | 0.05-0.5 | ● |
| | TNGA 160404 | 0,4 | 0.03-0.2 | 0.05-0.5 | ● |
| | TNGA 160408 | 0,8 | 0.03-0.2 | 0.05-0.5 | ● |
| | 3C-TNGA 160402 | 0,2 | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TNGA 160404 | 0,4 | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TNGA 160408 | 0,8 | 0.03-0.2 | 0.05-0.5 | ○ |

Negatif / *Negative 35°(VN)*

| Ölçü / Dimensions | Boyut / Size (mm) | | | |
|----------------------|-------------------|------|-----|------|
| | d | s | la | d1 |
| VN_1604_ | 9,525 | 4,76 | 3,0 | 3,81 |

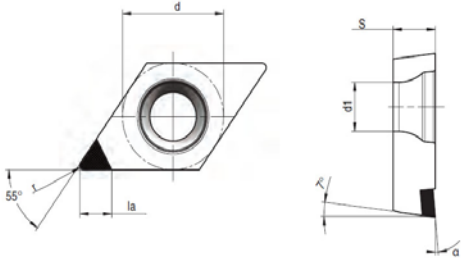
| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kalite Grades |
|------------------|------------------------|--------|--|----------|------------------|
| | | | f (mm/rev) | ap (mm) | DN7505 |
| | VNGA 160402 | 0,2 | 0.03-0.2 | 0.05-0.5 | ● |
| | VNGA 160404 | 0,4 | 0.03-0.2 | 0.05-0.5 | ● |
| | VNGA 160408 | 0,8 | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-VNGA 160402 | 0,2 | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-VNGA 160404 | 0,4 | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-VNGA 160408 | 0,8 | 0.03-0.2 | 0.05-0.5 | ○ |

PCD KESİCİ UÇLAR / *PCD INSERTS*

 Pozitif / *Positive 80°(CC)*


| Ölçü / Dimensions | Boyut / Size (mm) | | | |
|----------------------|-------------------|------|-----|------|
| | d | s | la | d1 |
| CC_0602_ | 6,35 | 2,38 | 3,0 | 2,80 |
| CC_09T3_ | 9,52 | 3,97 | 3,0 | 4,40 |
| CC_1204_ | 12,7 | 4,76 | 3,0 | 5,50 |

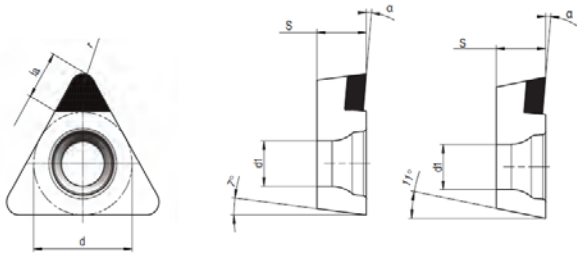
| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | α (°) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kalite Grades |
|------------------|------------------------|--------|--------------|--|----------|------------------|
| | | | | f (mm/rev) | ap (mm) | DN7505 |
| | CCGW 060202 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | CCGW 060204 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | CCGW 060208 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | CCGW 09T302 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | CCGW 09T304 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | CCGW 09T308 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | CCGW 120402 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | CCGW 120404 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | CCGW 120408 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-CCGW 060202 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-CCGW 060204 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-CCGW 060208 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-CCGW 09T302 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-CCGW 09T304 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-CCGW 09T308 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-CCGW 120402 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-CCGW 120404 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-CCGW 120408 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |

PCD KESİCİ UÇLAR / *PCD INSERTS*Pozitif / *Positive 55°(DC)*

| Ölçü / Dimensions | Boyut / Size (mm) | | | |
|----------------------|-------------------|------|-----|------|
| | d | s | la | d1 |
| DC_0702_ | 6,35 | 2,38 | 3,0 | 2,80 |
| DC_11T3_ | 9,52 | 3,97 | 3,0 | 4,40 |

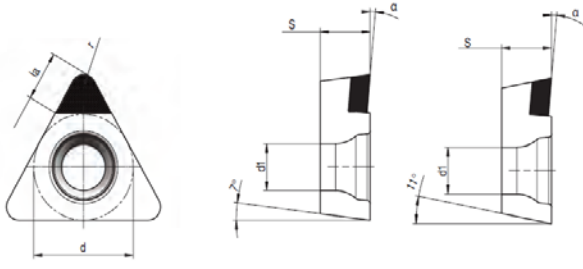
| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | α (°) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kalite Grades |
|---|------------------------|--------|--------------|--|----------|------------------|
| | | | | f (mm/rev) | ap (mm) | DN7505 |
|  | DCGW 070202 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | DCGW 070204 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | DCGW 070208 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | DCGW 11T302 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | DCGW 11T304 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | DCGW 11T308 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
|  | 2C-DCGW 070202 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-DCGW 070204 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-DCGW 070208 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-DCGW 11T302 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-DCGW 11T304 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-DCGW 11T308 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |

PCD KESİCİ UÇLAR / *PCD INSERTS*



 Pozitif / *Positive 60°(T)*


| Ölçü / Dimensions | Boyut / Size (mm) | | | |
|----------------------|-------------------|------|-----|------|
| | d | s | la | d1 |
| TC_0802_ | 4,76 | 2,38 | 3,0 | 2,40 |
| TC_1103_ | 6,35 | 3,18 | 3,0 | 2,80 |
| TC_16T3_ | 9,52 | 3,97 | 2,5 | 4,40 |
| TP_0802_ | 4,76 | 2,38 | 3,0 | 2,40 |
| TP_1102_ | 6,35 | 2,38 | 4,0 | 2,80 |
| TP_1103_ | 6,35 | 3,18 | 4,0 | 3,40 |
| TP_1604_ | 9,52 | 4,76 | 3,0 | 4,40 |

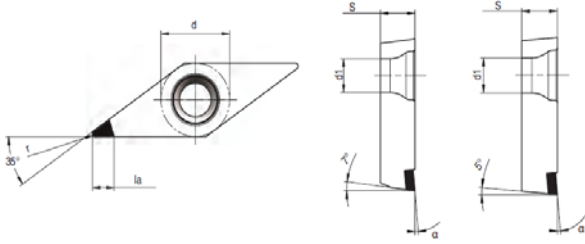
| Uçlar Inserts | Uç Kodu Insert Code | r (mm) | α (°) | Önerilen Kesme Koşulları Recommended Cutting Parameters | | Kalite Grades |
|------------------|------------------------|--------|--------------|--|----------|------------------|
| | | | | f (mm/rev) | ap (mm) | DN7505 |
| | TCGW 080202 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | TCGW 080204 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | TCGW 080208 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | TCGW 110202 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | TCGW 110204 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | TCGW 110302 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | TCGW 110304 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | TCGW 110308 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | TCGW 16T302 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | TCGW 16T304 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | TCGW 16T308 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 3C-TCGW 080202 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TCGW 080204 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TCGW 080208 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TCGW 110302 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TCGW 110304 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TCGW 110308 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TCGW 16T302 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TCGW 16T304 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TCGW 16T308 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ○ |

PCD KESİCİ UÇLAR / *PCD INSERTS*Pozitif / *Positive 60°(T)*

| Ölçü / <i>Dimensions</i> | Boyut / <i>Size (mm)</i> | | | |
|-----------------------------|--------------------------|------|-----|------|
| | d | s | la | d1 |
| TC_0802_ | 4,76 | 2,38 | 3,0 | 2,40 |
| TC_1103_ | 6,35 | 3,18 | 3,0 | 2,80 |
| TC_16T3_ | 9,52 | 3,97 | 2,5 | 4,40 |
| TP_0802_ | 4,76 | 2,38 | 3,0 | 2,40 |
| TP_1102_ | 6,35 | 2,38 | 4,0 | 2,80 |
| TP_1103_ | 6,35 | 3,18 | 4,0 | 3,40 |
| TP_1604_ | 9,52 | 4,76 | 3,0 | 4,40 |

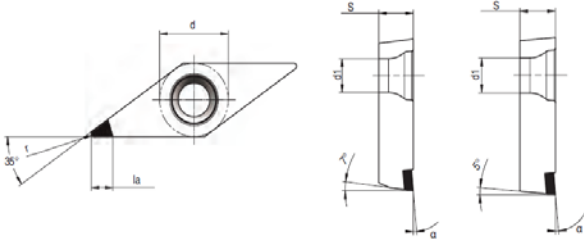
| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | r (mm) | α (°) | Önerilen Kesme Koşulları <i>Recommended Cutting Parameters</i> | | Kalite <i>Grades</i> |
|---|-------------------------------|--------|-------|---|----------|-------------------------|
| | | | | f (mm/rev) | ap (mm) | DN7505 |
|  | TPGW 080202 | 0,2 | 11° | 0.03-0.2 | 0.05-0.5 | ● |
| | TPGW 080204 | 0,4 | 11° | 0.03-0.2 | 0.05-0.5 | ● |
| | TPGW 110202 | 0,2 | 11° | 0.03-0.2 | 0.05-0.5 | ● |
| | TPGW 110204 | 0,4 | 11° | 0.03-0.2 | 0.05-0.5 | ● |
| | TPGW 110304 | 0,4 | 11° | 0.03-0.2 | 0.05-0.5 | ● |
| | TPGW 110308 | 0,8 | 11° | 0.03-0.2 | 0.05-0.5 | ● |
| | TPGW 160302 | 0,2 | 11° | 0.03-0.2 | 0.05-0.5 | ● |
| | TPGW 160304 | 0,4 | 11° | 0.03-0.2 | 0.05-0.5 | ● |
|  | 3C-TPGW 080202 | 0,2 | 11° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TPGW 080204 | 0,4 | 11° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TPGW 080208 | 0,8 | 11° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TPGW 160402 | 0,2 | 11° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TPGW 160404 | 0,4 | 11° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 3C-TPGW 160408 | 0,8 | 11° | 0.03-0.2 | 0.05-0.5 | ○ |

PCD KESİCİ UÇLAR / *PCD INSERTS*


 Pozitif / *Positive 35°(V)*


| Ölçü / <i>Dimensions</i> | Boyut / <i>Size (mm)</i> | | | |
|-----------------------------|--------------------------|------|-----|------|
| | d | s | la | d1 |
| VB_1103_ | 6,35 | 3,18 | 3,0 | 2,80 |
| VB_1604_ | 9,52 | 4,76 | 3,0 | 4,40 |
| VC_1103_ | 6,35 | 3,18 | 3,0 | 2,80 |
| VC_1604_ | 9,52 | 4,76 | 3,0 | 4,40 |

| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | r (mm) | α (°) | Önerilen Kesme Koşulları <i>Recommended Cutting Parameters</i> | | Kalite <i>Grades</i> |
|-------------------------|-------------------------------|--------|--------------|---|----------|-------------------------|
| | | | | f (mm/rev) | ap (mm) | DN7505 |
| | VBGW 110302 | 0,2 | 5° | 0.03-0.2 | 0.05-0.5 | ● |
| | VBGW 110304 | 0,4 | 5° | 0.03-0.2 | 0.05-0.5 | ● |
| | VBGW 110308 | 0,8 | 5° | 0.03-0.2 | 0.05-0.5 | ● |
| | VBGW 160402 | 0,2 | 5° | 0.03-0.2 | 0.05-0.5 | ● |
| | VBGW 160404 | 0,4 | 5° | 0.03-0.2 | 0.05-0.5 | ● |
| | VBGW 160408 | 0,8 | 5° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-VBGW 110302 | 0,2 | 5° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-VBGW 110304 | 0,4 | 5° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-VBGW 110308 | 0,8 | 5° | 0.03-0.2 | 0.05-0.5 | ○ |
| | 2C-VBGW 160402 | 0,2 | 5° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-VBGW 160404 | 0,4 | 5° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-VBGW 160408 | 0,8 | 5° | 0.03-0.2 | 0.05-0.5 | ● |

PCD KESİCİ UÇLAR / *PCD INSERTS*Pozitif / *Positive 35°(V)*

| Boyut / <i>Size (mm)</i> | | | | |
|--------------------------|------|------|-----|------|
| Ölçü / <i>Dimensions</i> | d | s | la | d1 |
| VB_1103_ | 6,35 | 3,18 | 3,0 | 2,80 |
| VB_1604_ | 9,52 | 4,76 | 3,0 | 4,40 |
| VC_1103_ | 6,35 | 3,18 | 3,0 | 2,80 |
| VC_1604_ | 9,52 | 4,76 | 3,0 | 4,40 |

| Uçlar <i>Inserts</i> | Uç Kodu <i>Insert Code</i> | r (mm) | α (°) | Önerilen Kesme Koşulları <i>Recommended Cutting Parameters</i> | | Kalite <i>Grades</i> |
|---|-------------------------------|--------|--------------|---|----------|-------------------------|
| | | | | f (mm/rev) | ap (mm) | DN7505 |
|  | VCGW 110302 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | VCGW 110304 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | VCGW 160404 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | VCGW 160408 | 0,8 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | VCGW 160412 | 1,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
|  | 2C-VCGW 110302 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-VCGW 110304 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-VCGW 110308 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-VCGW 160402 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-VCGW 160404 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-VCGW 160408 | 0,2 | 7° | 0.03-0.2 | 0.05-0.5 | ● |
| | 2C-VCGW 160412 | 0,4 | 7° | 0.03-0.2 | 0.05-0.5 | ● |

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