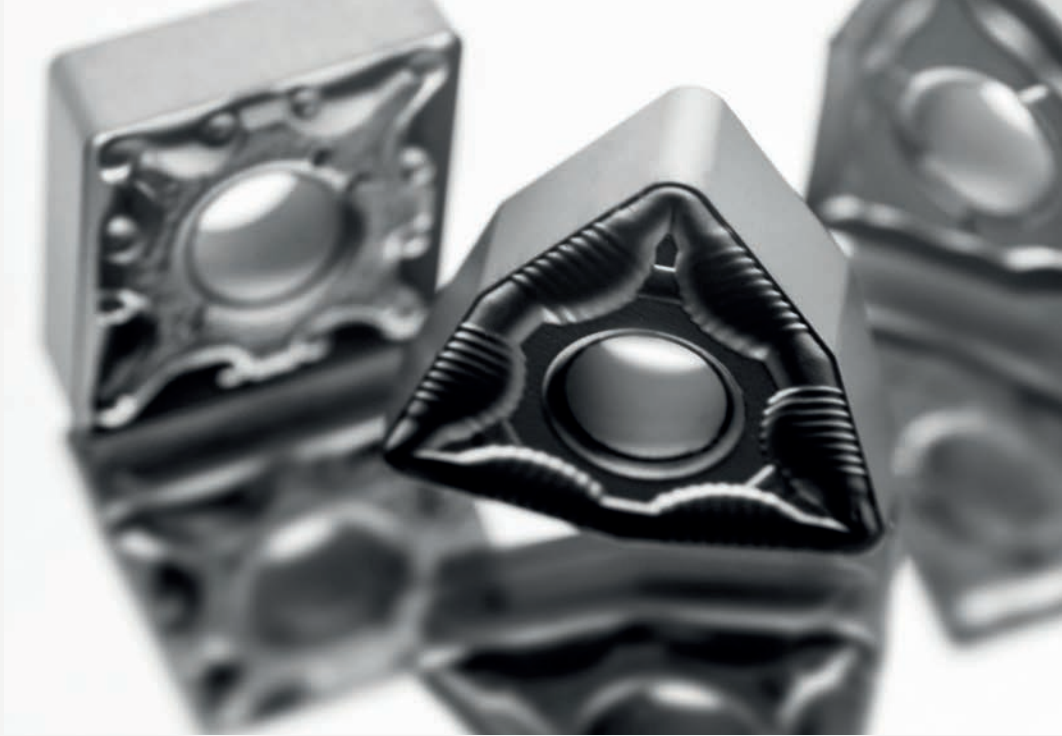
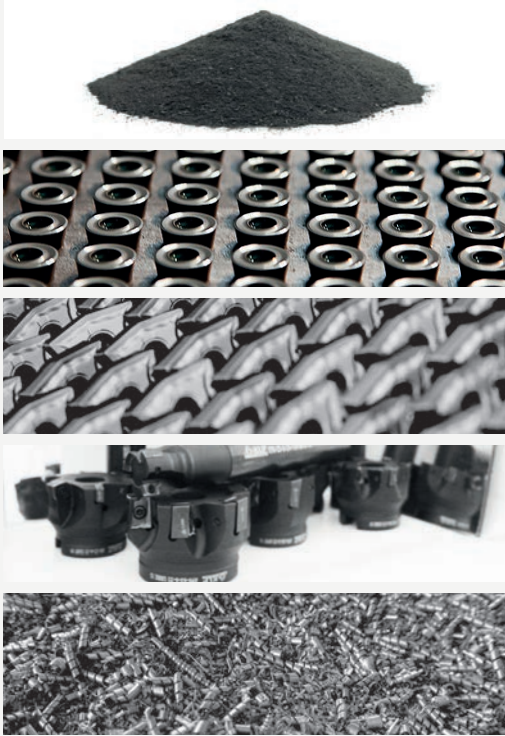


GENERAL PRODUCT CATALOGUE



GENEL ÜRÜN KATALOĞU

www.klp.com.tr





Karakoc Tooling & Metal Form Industry Co.

KLP Cutting Tools is a registered trade mark of **KARAKOÇ** Kalip Metal Form San. Tic. A.Ş.

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%Yüz Yerli

Dünyanın ucunu üretiyoruz

Türkiye'nin ilk ve tek tamamen entegre karbür kesici takımlar üreticisi KLP Kesici Takımlar, KARAKOÇ KALIP AŞ tarafından 2010 yılında kurulmuştur. Yeni doğan firmamızın kalite anlayışı kısa süre içerisinde tüm yerli ve yabancı müşterilerimiz tarafından beğeniyle karşılanmıştır.

Daha bu erken aşamalarında parlamaya başlayan Türk Markası KLP Kesici Takımlar, Türkiye'nin ilk ve tek karbür ucunu ihraç etmeye başlamıştır.

Yatırım, araştırma ve geliştirme sürekli surette devam etmektedir. 2018 öngörümüz 200 farklı geometride ve 400 farklı tipte insert üretim yapmak.

We produce inserts for the world

Turkey's the first and only fully-integrated carbide cutting tools factory KLP Cutting Tools was established by KARAKOÇ Inc. in 2010. Quality approach of the new-born company has been widely appreciated by all local and foreign customers in a short time.

Turkish brand **KLP CUTTING TOOLS**, as a new shining enterprise, has begun to export Turkey's carbide inserts.

Investment and RD activities are constantly developing in the company. The company anticipates producing Made in Turkey inserts in 400 different types and 200 different geometries its own facility by the year 2018.

Orta Anadolu, Konya 48 metrekairelik bir atölyede kalıp üretimine başladık. Sürekli gelişime, başarıya ve kaliteye odaklandık. Özveri ile çalıştık.

1979

Central Turkey, Konya 48 sqm workshop... We started to produce toolsets. We believed in continious development, innovation, focused in quality. We didn't stop, worked with devotion.

Soğuk saç biçimlendirmeye ve otomotiv endüstrisine yedek parça üretmeye başladık. Saç parça bastık, pres makinaları ürettik.

1987

We have started to serve automotive industry with cold formed spare parts. We have formed metal sheets, we have started to produce cold metal forming press machines, continiously worked, didn't stop...

Orta Anadolu'dan otomotivin başkenti Bursa'ya taşındık. Kalite, yenilik ve gelişim ana düsturumuz oldu.

1998

We have moved from Central Turkey, Konya to the heart of automotive industry Western Turkey Bursa... Quality, innovation, development were our main norm...

2004

Lazer kesim makinaları üretmeye başladık. Artık Karakoç, karmaşık problemlere getirdiği çabuk ve pratik çözümlerle marka olmuştu.

We have started to produce laser cutting machines. Karakoç was a very known brand of Turkish Industry especially on quick and practical solutions for complex problems...

2010

Ürün ve hizmet gamımız genişledi.; Soğuk sac biçimlendirme, kaynaklı parça imalatı, kalıp üretimi, egsantrik pres makinaları üretimi, hidrolik pres sistemleri üretimi, servo pres sistemleri, lazer kesim makinaları, transfer robotları...

Our product range has increased, cold pressed metal forming, welded parts production, toolset production, eccentric press machine systems, hydraulic press machine systems, servo press systems, laser cutting units, transfer robots...

2011

Türkiye'nin tamamen yerli sermayeli, tam entegre ilk ve tek tungsten karbür kesici takımları fabrikasını kurduk. Artık toplam üretim alanımız 13.500 metrekare.

We have established the first and only fully integrated tungsten carbide cutting tools factory. Our total production area is now 13.500 sqm.

2012

Kesici takımlar üretimi test fazı tamamlandı. KLP Kesici Takımlar artık memleket ve dünya piyasalarında...

Test phase of insert production is completed. KLP Cutting Tools is in the market.

2013

CVD Kaplama tesisimizi kurduk. Bir çok ülkeye ihracatımız başladı.

We founded insert production is completed. KLP Cutting Tools is in the market.

2014

Yeni ürün çeşitlerimiz ile büyümeye devam ettik.

We keep growing with our new product range.

2015

Kendi satış mağazalarımızı kurduk. Bursa, Konya, Ankara, İstanbul...

We have established our own sales offices Bursa, Konya, Ankara, İstanbul...

2017 DURMUYORUZ...
WE KEEP MOVING...



www.klp.com.tr

WE PRODUCE THE QUALITY...



TURNING & MILLING INSERTS

TORNA ve FREZE UÇLARI



CUT & GROOVING INSERTS

KESME ve KANAL UÇLARI



ROUND INSERTS

YUVARLAK UÇLAR



CARBIDE END MILLS

KARBÜR PARMAK FREZE



RAW CARBIDE STICKS

İŞLENMEMİŞ KARBÜR ÇUBUK



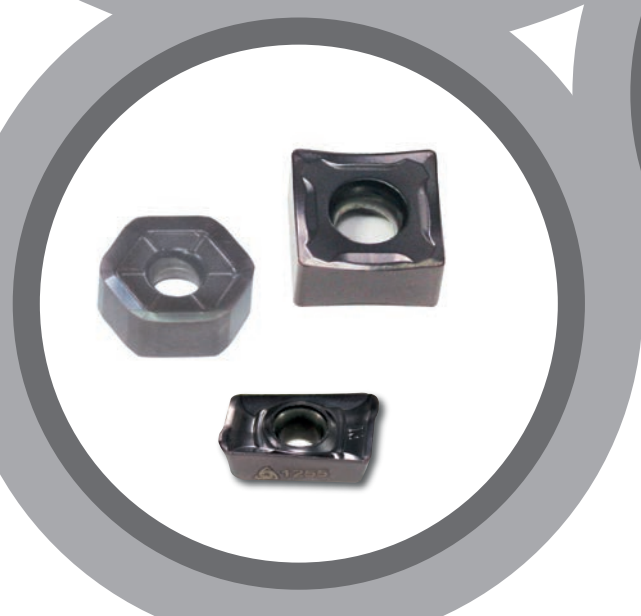
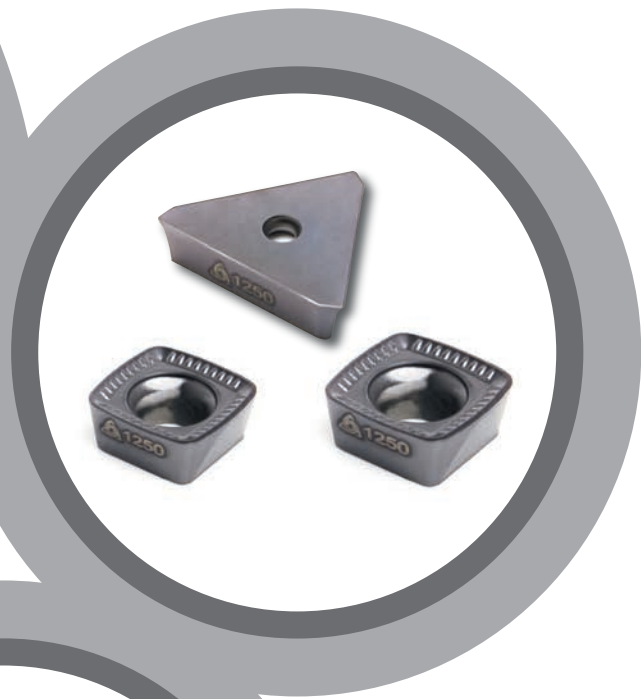
SPECIAL PRODUCTS

ÖZEL ÜRÜNLER





























PVD & CVD COATING

PVD ve CVD KAPLAMALAR



**FREZE
MILLING**

1		S	BİÇİM FORM
	A	85°	
	B	82°	
	C	80°	
	D	55°	
	E	75°	
	H	120°	
	K	55°	
	L	90°	
	M	86°	
	O	135°	
	P	108°	
	R	360°	
	S	90°	
	T	60°	
	V	35°	
	W	80°	

2		D	AÇI ANGLE
	A	3°	
	B	5°	
	C	7°	
	D	15°	
	E	20°	
	F	25°	
	G	30°	
	H	13°	
	N	0°	
	P	11°	

3		M	TOLERANS TOLERANCE
			
		d	m
A	mm	±0,025	±0,005
C	mm	±0,025	±0,013
E	mm	±0,025	±0,025
F	mm	±0,025	±0,005
G	mm	±0,013	±0,025
H	mm	±0,025	±0,013
J	mm	±0,013	±0,005
K	mm	*	±0,013
L	mm	*	±0,025
M	mm	*	*
U	mm	*	*
N	mm	*	*

4 T TALAŞ KIRICI
INSERT HOLE
OR BREAKER
**A****B**

70°-90°

**C**

70°-90°

**F****G****H**

70°-90°

**J**

70°-90°

**M****N****Q**

40°-60°

**R****T**

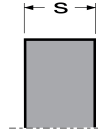
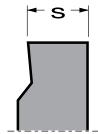
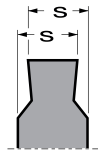
40°-60°

**U**

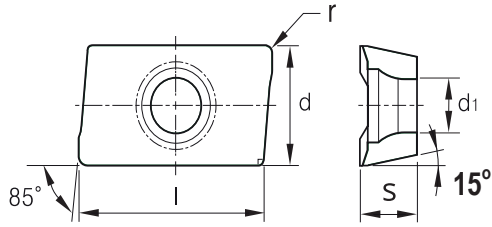
40°-60°

**W**

40°-60°

Özel Ürün
Special Product**X**
5 12 KESME BOYU
CUTTING LENGTH
**C, D, E, M, V****H****A, B, K****L****O****P****R****S****T****W**
6 04 KALINLIK
THICKNESS
**A, B, C, N, O, W****H, M, R, T****F, G, J, U**

01	=	1,588
T1	=	1,984
02	=	2,381
03	=	3,175
T3	=	3,969
04	=	4,763
05	=	5,556
06	=	6,350
07	=	7,938
09	=	9,525
11	=	11,113
12	=	12,700
14	=	14,288
15	=	15,875


KALİTELER / GRADES
KLP 1250
KLP 1255
KLP 855
ADKT

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
ADKT 150508 PDR	9,65	14,20	5,65	0,80	4,45
ADKT 150508 ALU	9,65	14,20	5,65	0,80	4,45

ADKT 1505 PDR
KLP 1250

ADKT 1505 PDR
KLP 1255

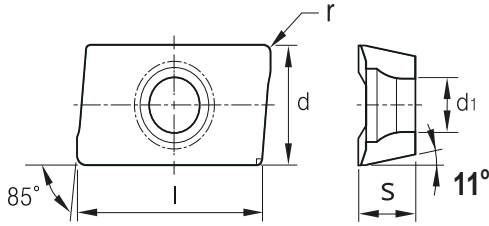
ADKT 150508 ALU
KLP 855

NEW

	KLP 1250	KLP 1255	KLP 855
--	----------	----------	---------

Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Döküm / Cast Iron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Özel Alaşımilar / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Kaliteler / Grades



KALİTELER / GRADES

KLP 1250

KLP 1255

APCT

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
APCT 113508 PDR	6,20	11,30	3,50	0,80	3,00

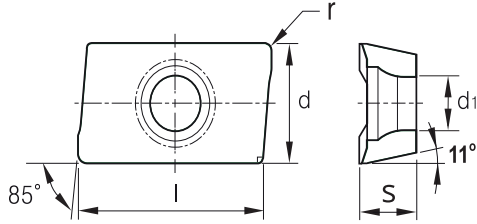
APCT 113508 PDR
KLP 1250APCT 113508 PDR
KLP 1255

KLP 1250

KLP 1255

Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>
Döküm / Cast Iron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Alüminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşım / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Kaliteler / Grades


KALİTELER / GRADES
KLP 1250
APKT 100305 CM / CF - 100308 CM - 100312 CR
KLP 1255
APKT 100305 CM / CF - 100308 CM - 100312 CR
APKT

KOD / CODE	d (mm)	l (mm)	s (mm)	r (mm)	d1 (mm)
APKT 100305 PDRCF	6,65	10,50	3,47	0,50	3,20
APKT 100305 PDRCM	6,65	10,50	3,47	0,50	3,20
APKT 100308 PDR CM	6,65	10,50	3,47	0,80	3,20
APKT 100312 PDR CR	6,65	10,50	3,47	1,20	3,20

APKT 100305 CF
KLP 1255

APKT 100305 CM
KLP 1255

APKT 100308 CM
KLP 1255

APKT 100312 CR
KLP 1255

KLP 1250
KLP 1255
Çelik /
 Steel

Paslanmaz Çelik /
 Stainless Steel

Döküm /
 Cast Iron

Aluminyum /
 Aluminum

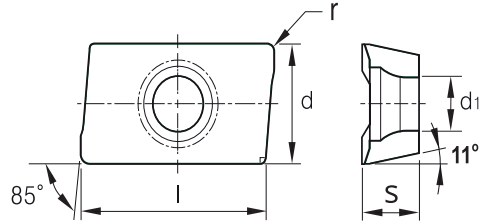
Özel Alaşımlar /
 Special Alloy

Sertleştirilmiş Çelik /
 Hardened Steel

Kaliteler / Grades

APKT

Kaliteler / Grades



KALİTELER / GRADES

KLP 1250

APKT 16 CM - 08 - 16

KLP 1255

APKT 17

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
APKT 160408 PDR CM	9,45	16,80	5,70	0,80	4,70
APKT 160416 PDR CR	9,45	16,80	5,70	1,60	4,70
APKT 170408 PDR	10,70	18,50	5,70	0,80	4,70

APKT 160408PDR CM
KLP 1255



APKT 160416 PDR CR
KLP 1255



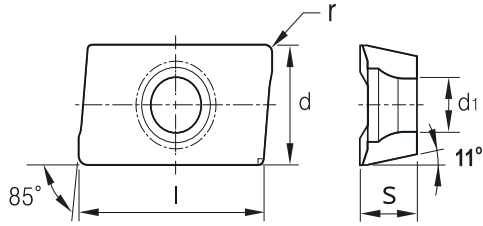
APKT 170408 PDR
KLP 1250



KLP 1250

KLP 1255

Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Döküm / Cast Iron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşım / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>


KALİTELER / GRADES
KLP 1250
KLP 1255
APXT

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
APXT 100308 PDR	6,30	11,30	3,50	0,80	3,00

APXT 1003 PDR
KLP 1250

APXT 1003 PDR
KLP 1255

KLP 1250
KLP 1255
Çelik /
 Steel

Paslanmaz Çelik /
 Stainless Steel

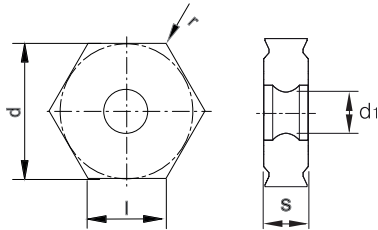
Döküm /
 Cast Iron

Aluminyum /
 Aluminum

Özel Alaşım /
 Special Alloy

Sertleştirilmiş Çelik /
 Hardened Steel

Kaliteler / Grades



KALİTELER / GRADES

KLP 1255HNMX10

KLP 1250HNMX10

KLP 1255HNMX09

HNMX

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
HNMX 100610 ANTN	19,00	10,00	6,34	1,00	6,29
HNMX 090610 ENACM	15,80	9,00	6,35	1,00	5,20

HNMX 100610 ANTN
KLP 1255



HNMX 090610 ENACM
KLP 1255

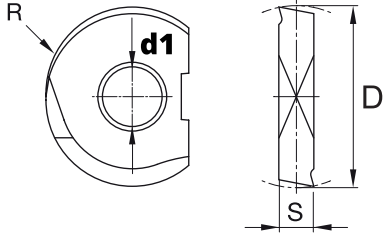


KLP 1250

KLP 1255

Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>
Döküm / Cast Iron	<input type="checkbox"/>	<input type="checkbox"/>
Alüminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşım / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Kaliteler / Grades


KALİTELER / GRADES
KLP 1255
KFB 100 CF
KLP 1255
KFB 120 CF
KLP 1255
KFB 160 CF
KLP 1255
KFB 200 CF
KLP 1255
KFB 250 CF
KFB

KOD / CODE	D(mm)	S(mm)	R(mm)	d1 (mm)
KFB 100 CF	10.00	2.50	5.00	4.00
KFB 120 CF	12.00	2.50	6.00	5.00
KFB 160 CF	16.00	3.00	8.00	5.00
KFB 200 CF	20.00	3.00	10.00	5.00
KFB 250 CF	25.00	4.00	12.50	6.00

KFB 100 CF
KLP 1255

KFB 120 CF
KLP 1255

KFB 160 CF
KLP 1255

KFB 200 CF
KLP 1255

KFB 250 CF
KLP 1255

KLP 1255
Çelik /
Steel

Paslanmaz Çelik /
Stainless Steel

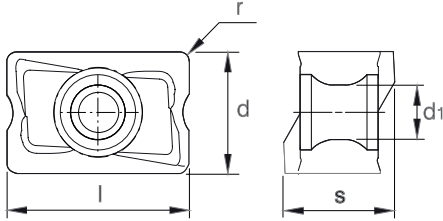
Döküm /
Cast Iron

Aluminyum /
Aluminum

Özel Alaşımlar /
Special Alloy

Sertleştirilmiş Çelik /
Hardened Steel

Kaliteler / Grades



KALİTELER / GRADES

KLP 1250 - 1255

LNMX 10

KLP 1250 - 1255

LNMX 15

LNMX

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
LNMX 100605 PNR - CM	6,50	10,00	6,35	0,50	3,60
LNMX 151008 PNR - CM	10,00	15,00	10,00	0,80	4,50

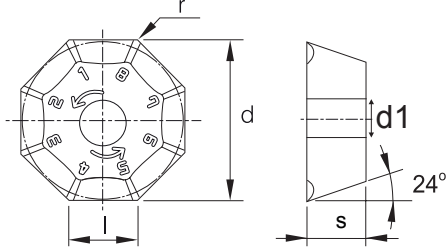
LNMX 100605 PNR CM
KLP 1250LNMX 151008 PNR CM
KLP 1250LNMX 100605 PNR CM
KLP 1255LNMX 151008 PNR CM
KLP 1255

KLP 1250

KLP 1255

Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>
Döküm / Cast Iron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşım / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Kaliteler / Grades


KALİTELER / GRADES
KLP 1250
KLP 1255
OFCR

KOD / CODE	d (mm)	l (mm)	s (mm)	r (mm)	d1 (mm)
OFCR 070410 CM	18,00	7,00	5,55	1,00	2,10

OFCR 070410 CM
KLP 1250

OFCR 070410 CM
KLP 1255

KLP 1250
KLP 1255
Çelik /
 Steel

Paslanmaz Çelik /
 Stainless Steel

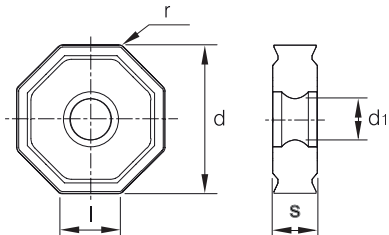
Döküm /
 Cast Iron

Aluminyum /
 Aluminum

Özel Alaşım /
 Special Alloy

Sertleştirilmiş Çelik /
 Hardened Steel

Kaliteler / Grades



KALİTELER / GRADES

KLP 1250

KLP 1255

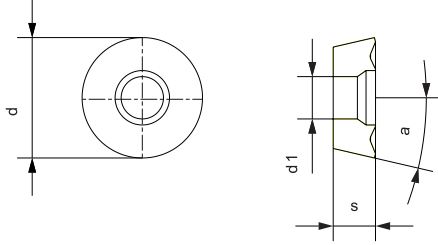
ONMU

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
ONMU 050505 CM	13,00	5,00	5,55	0,50	5,70

ONMU 0505 CM
KLP 1250ONMU 0505 CM
KLP 1255

Kaliteler / Grades

	KLP 1250	KLP 1255
Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Döküm / Cast Iron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşım / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>


KALİTELER / GRADES
KLP 1255 - 1250
RHKT 1605 M0TN
KLP 1255 - 1250
RHKT 1205 M0TN
KLP 1255 - 1250
RHKT 10T3 M0TN
RHKT

KOD / CODE	d (mm)	a (mm)	s(mm)	r(mm)	d1 (mm)
RHKT 1605 M0TN	16,00	13,00	5,20	8,00	5,60
RHKT 1205 M0TN	12,00	13,00	4,76	6,00	4,40
RHKT 10T3 M0TN	10,00	13,00	3,80	5,00	4,40

RHKT 1605 M0TN
KLP 1255

RHKT 1205 M0TN
KLP 1255

RHKT 10T3 M0TN
KLP 1255

KLP 1250
KLP 1255
Çelik /
 Steel

Paslanmaz Çelik /
 Stainless Steel

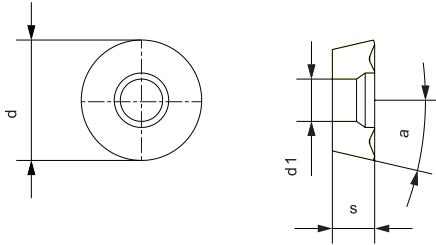
Döküm /
 Cast Iron

Aluminyum /
 Aluminum

Özel Alaşımlar /
 Special Alloy

Sertleştirilmiş Çelik /
 Hardened Steel

Kaliteler / Grades

**KALİTELER / GRADES****KLP 1250**

RHKW 05

KLP 1255 - 1250

RHKW 08

KLP 1250 - 1255

RHKW 10

KLP 1255 - 1250

RHKW 12

RHKW

KOD / CODE	d (mm)	a(mm)	s(mm)	r(mm)	d1 (mm)
RHKW 0501 M0TN	5,00	13,00	1,50	2,50	2,20
RHKW 0802 M0TN	8,00	13,00	2,60	4,00	3,70
RHKW 10T3 M0TN	10,00	13,00	3,80	5,00	4,40
RHKW 1204 M0TN	12,00	13,00	4,76	6,00	4,40

RHKW 0501 M0TN
KLP 1255**RHKW 0802** M0TN
KLP 1255**RHKW 10T3** M0TN
KLP 1255**RHKW 1204** M0TN
KLP 1255

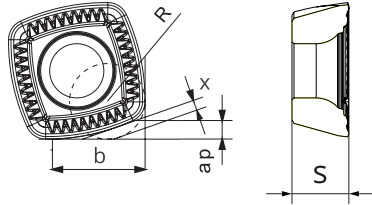
KLP 1250

KLP 1255

Çelik /
Steel**Paslanmaz Çelik /**
Stainless Steel**Döküm /**
Cast Iron**Aluminyum /**
Aluminum**Özel Alaşım /**
Special Alloy**Sertleştirilmiş Çelik /**
Hardened Steel**Kaliteler / Grades**



© KLP
A90-50-4-22



KALİTELER / GRADES

KLP 1250 - 1255

SDMT 07 - CM - CR

KLP 1250 - 1255

SDMT 09 - CM - CR - CF

KLP 1250 - 1255

SDMT 12 CM - CR

SDMT

KOD / CODE	d (mm)	R (mm)	b(mm)	ap(mm)	x (mm)	s (mm)
SDMT 070308 CM	7,94	1,60	6,20	0,80	0,14	3,17
SDMT 070308 CR	7,94	1,60	6,20	0,80	0,14	3,17
SDMT 09T312 CF	9,52	2,20	7,40	1,40	0,90	3,97
SDMT 09T312 CM	9,52	2,20	7,40	1,40	0,90	3,97
SDMT 09T312 CR	9,52	2,20	7,40	1,40	0,90	3,97
SDMT 09T312 CH	9,52	2,20	7,40	1,40	0,90	3,97
SDMT 120520 CM	12,70	3,70	9,00	1,80	1,10	5,55
SDMT 120520 CR	12,70	3,70	9,00	1,80	1,10	5,55

SDMT
070308CR
KLP 1255SDMT
070308CM
KLP 1250SDMT
09T312CR
KLP 1255SDMT
09T312CH
KLP 1255

NEW

SDMT
09T312CM
LP 1255SDMT
09T312CF
KLP 1255

NEW

SDMT
120520CM
KLP 1255SDMT
120520CR
KLP 1255

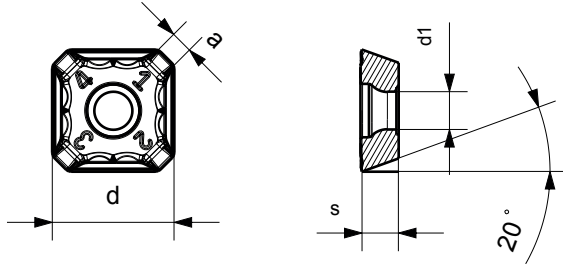
NEW

KLP 1250

KLP 1255

Çelik /
SteelPaslanmaz Çelik /
Stainless SteelDöküm /
Cast IronAlüminyum /
AluminumÖzel Alaşım /
Special AlloySertleştirilmiş Çelik /
Hardened Steel

Kaliteler / Grades


KALİTELER / GRADES
KLP 1250
KLP 1255
SEKT

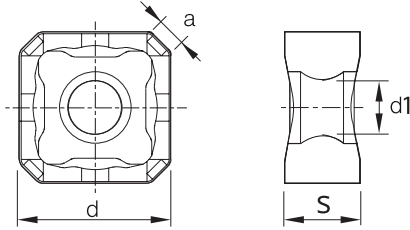
KOD / CODE	d (mm)	a(mm)	s(mm)	r(mm)	d1 (mm)
SEKT 12T3 AFTN-CM	13,40	2,20	3,96	0,60	4,20

SEKT 12T3 AFTN CM
KLP 1250

SEKT 12T3 AFTN CM
KLP 1255

Kaliteler / Grades

	KLP 1250	KLP 1255
Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Döküm / Cast Iron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşımilar / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>



KALİTELER / GRADES

KLP 1250

SNMX12

KLP 1255

SNMX12

SNMX

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
SNMX 120608 ANN	12,70	12,70	6,35	0,80	4,40
SNMX 120608 ENN	12,70	12,70	6,35	0,80	5,20

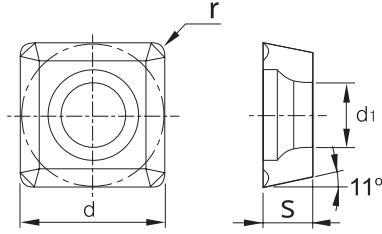
SNMX 120608 ANN
KLP 1250SNMX 120608 ENN
KLP 1250SNMX 120608 ANN
KLP 1255SNMX 120608 ENN
KLP 1255

KLP 1250

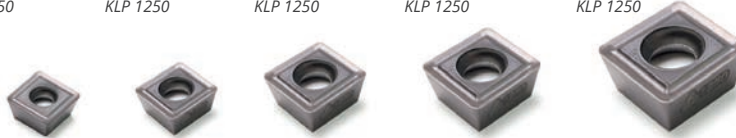
KLP 1255

Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Döküm / Cast Iron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşım / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Kaliteler / Grades


KALİTELER / GRADES
KLP 1250
SPMG 05
KLP 1250
SPMG 06
KLP 1250
SPMG 07
KLP 1250
SPMG 09
KLP 1250
SPMG 11
SPMG

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
SPMG 050204	5,00	5,00	2,38	0,40	2,20
SPMG 060204	6,00	6,00	2,38	0,40	2,70
SPMG 07T308	8,00	7,00	3,97	0,80	2,80
SPMG 090408	9,80	9,80	4,30	0,80	3,70
SPMG 110408	11,50	11,50	4,98	0,80	4,20

SPMG 050204
KLP 1250
SPMG 060204
KLP 1250
SPMG 07T308
KLP 1250
SPMG 090408
KLP 1250
SPMG 110408
KLP 1250

KLP 1250
Çelik /
 Steel

Paslanmaz Çelik /
 Stainless Steel

Döküm /
 Cast Iron

Aluminyum /
 Aluminum

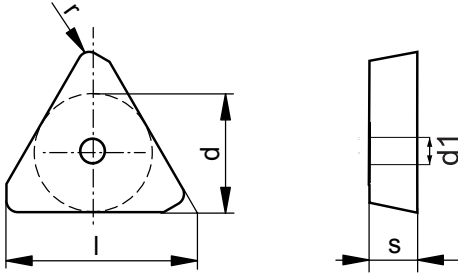
Özel Alaşım /
 Special Alloy

Sertleştirilmiş Çelik /
 Hardened Steel

Kaliteler / Grades

TPKN

Kaliteler / Grades



KALİTELER / GRADES

KLP 1255

TPKN 16

KLP 1255

TPKN 22

KLP 1275

TPKN 16

KLP 1275

TPKN 22

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
TPKN 1603 PPTN	9,52	16,50	3,18	0,20	2,50
TPKN 2204 PPTN	12,70	22,00	4,76	0,60	2,50

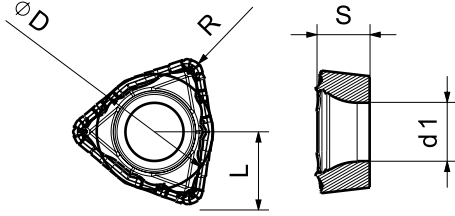
TPKN 1603 PPTN
KLP 1255TPKN 2204 PPTN
KLP 1255TPKN 1603 PPTN
KLP 1275TPKN 2204 PPTN
KLP 1275

KLP 1250

KLP 1255

KLP 1275

Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Döküm / Cast Iron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşımlar / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>


KALİTELER / GRADES
KLP 1255
WCMX 03
KLP 1255
WCMX 04
KLP 1255
WCMX 05
KLP 1255
WCMX 06
WCMX

KOD / CODE	L(mm)	R (mm)	D(mm)	S(mm)	d1 (mm)
WCMX 030208	3,70	0,80	5,52	2,50	2,80
WCMX 040208	4,30	0,80	6,32	2,50	3,10
WCMX 050308	5,40	0,80	7,90	3,40	3,40
WCMX 06T308	6,50	0,80	9,52	3,97	3,70

WCMX 030208
KLP 1255

WCMX 040208
KLP 1255

WCMX 050308
KLP 1255

WCMX 06T3008

KLP 1255
Çelik /
 Steel

Paslanmaz Çelik /
 Stainless Steel

Döküm /
 Cast Iron

Aluminyum /
 Aluminum

Özel Alaşımlar /
 Special Alloy

Sertleştirilmiş Çelik /
 Hardened Steel

Kaliteler / Grades

NANO PVD KAPLAMALI KALİTELER NANO PVD COATED GRADES

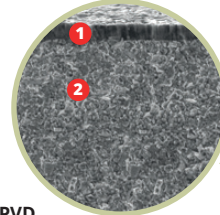
P05 - P25

YENİ KALİTE / NEW GRADE

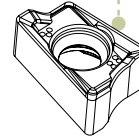
KLP 1255

Yüksek performans ve ömür için üretilmiş AlTiN pvd kaplamalı özel bir kalitedir. Yüksek hız ve ısı dayanımı artırılmış olup nitelikli çelikler için uygundur.

AlTiN coated special quality produced for high performance and long-lasting tool life. Compatible with high quality steels, increased heat resistance and higher cutting speeds.



- 1 PVD
- 2 ALT YAPI / INFRASTRUCTURE



P05 - P15

KLP 1250

Çok yüksek aşınma direncine sahip NANO - PVD kaplamalı bir kalitedir. Özellikle final operasyonlarında, rijit bağlanmış çelik parçaların yüksek kesme hızlarında işlenmesine olanak sağlayan bir kalitedir.

NANO - PVD coated grade offering a very high resistance against erosion. Especially in final operations, this grade enables rigid fitted steel parts processed through high speed cutting.

P25 - P35

KLP 1280

Genişletilmiş genel amaçlı ortadan düşük kesme hızlarına kadar iyi performans verebilen NANO PVD kaplamalı bir kalitedir. Yüksek aşınma direnci ve mükemmel köşe dayanımı için tasarlanmıştır. Uzun boy bağlamalarda ve darbeli kesim çelik işlemleri için ideal kalitedir.

NANO - PVD coated grade extended for general purposes, offering a good performance from medium to lower cutting speeds. Designed for excellent corner endurance and high resistance against erosion. An ideal grade for longer length fitting and impact cut steel processes.

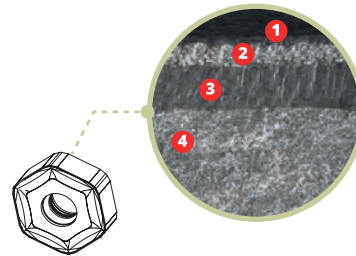
K10 - K25

MT-CVD KALİTE
MT-CVD GRADES

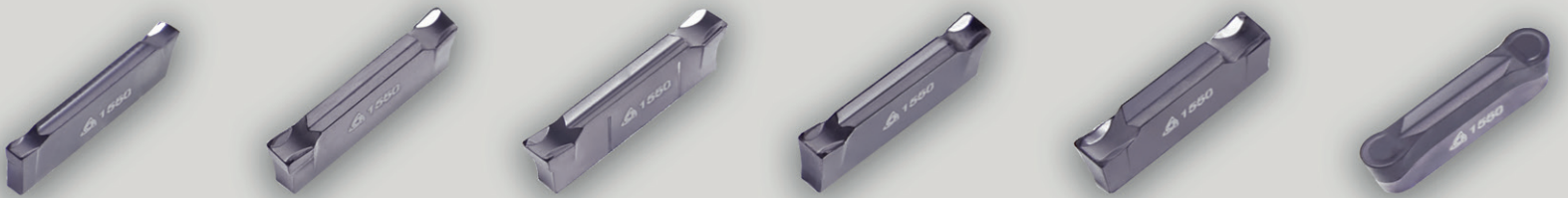
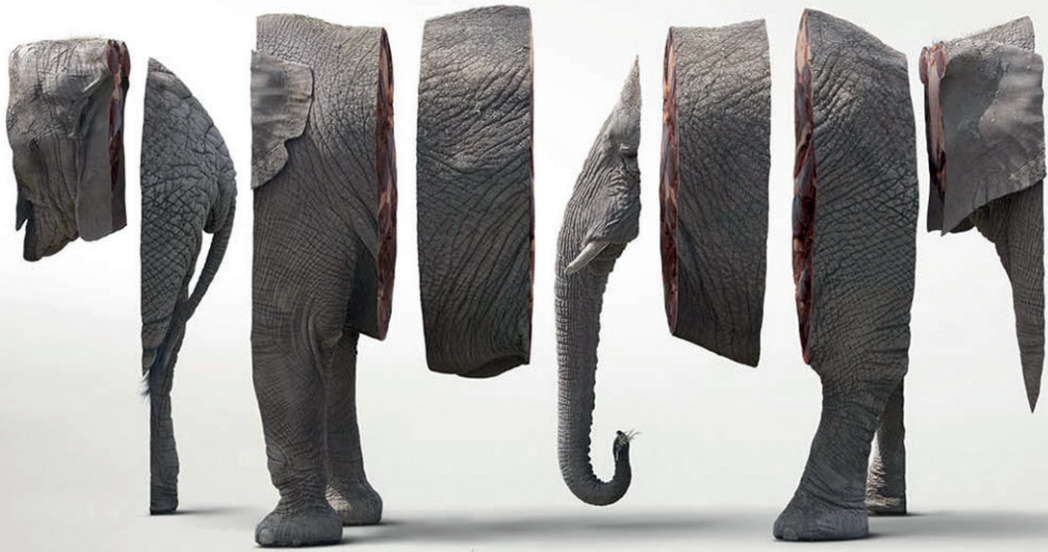
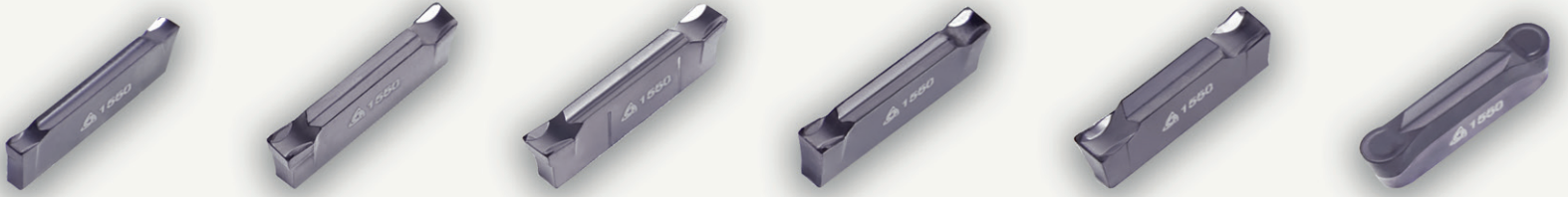
KLP 2460

Döküm malzemelerin işlenmesi için tasarlanmış MT CVD kaplamalı darbe ve aşınma direnci yüksek bir kalitedir.

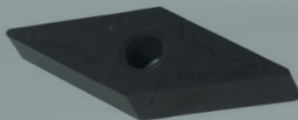
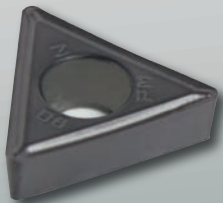
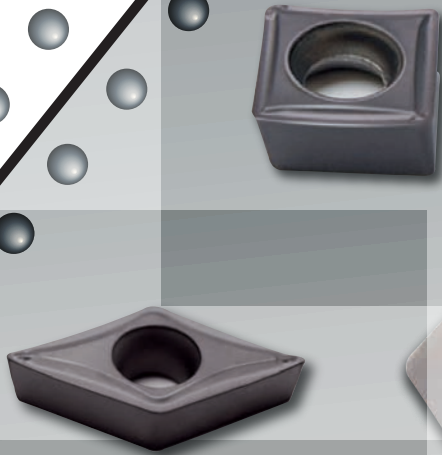
NANO CVD coated grade with high resistance against impact and erosion. It is designed for cast material processing.









































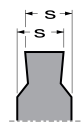
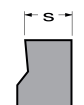
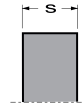
- 1 TM
- 2 AlO3
- 3 MTTCN
- 4 ALT YAPI / INFRASTRUCTURE



TORNA TURNING



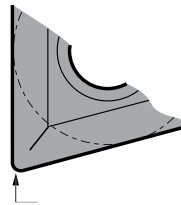
1	W	BIÇİM FORM	2	N	ACI ANGLE	3	M	TOLERANS TOLERANCE	4	G	TALAŞ KIRICI INSERT HOLE OR BREAKER		
	A	85°		A	3°					A			
	B	82°		B	5°		d	m	s		B	70-90°	
	C	80°		C	7°		A mm	±0,025	±0,005	±0,025		C	70-90°
	D	55°		E	20°		C mm	±0,025	±0,013	±0,025		F	
	E	75°		F	25°		E mm	±0,025	±0,025	±0,025		G	
	H	120°		P	11°		F mm	±0,025	±0,005	±0,025		H	70-90°
	K	55°					G mm	±0,013	±0,025	±0,013		J	70-90°
	L	90°					H mm	±0,025	±0,013	±0,025		M	
	M	86°					J mm	±0,013	±0,005	±0,025		N	
	O	135°					K mm	*	±0,013	±0,025		Q	40-60°
	P	108°					L mm	*	±0,025	±0,025		R	
	R	360°					M mm	*	*	±0,127		T	40-60°
	S	90°					N mm	*	*	±0,127		U	40-60°
	T	60°					U mm	*	*	±0,127		W	40-60°
	V	35°					N mm	*	*	±0,025		X	Özel Ürün Special Product
	W	80°											

5 08 KESME BOYU
CUTTING LENGTH**C, D, E,
M, V****H****A, B, K****L****O****P****R****S****T****W****6 04** KALINLIK
THICKNESS

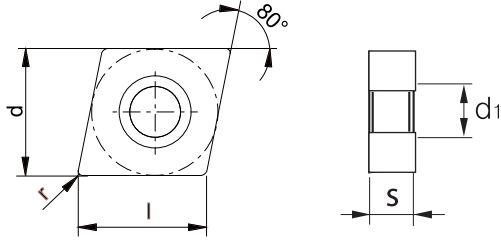
01	=	1,588
T1	=	1,984
02	=	2,381
03	=	3,175
T3	=	3,969
04	=	4,763
05	=	5,556
06	=	6,350
07	=	7,938
09	=	9,525
11	=	11,113
12	=	12,700
14	=	14,288
15	=	15,875

7 08 UÇ RAYUSU
EDGE RADIUS

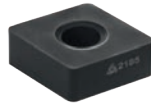
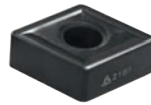
01	=	0,1
02	=	0,2
04	=	0,4
08	=	0,8
12	=	1,2
16	=	1,6
20	=	2,0

**8 NM** GEOMETRİ
GEOMETRIES

PM
PF
NF
NF1
NM
NM1
NR
NR1
A


KALİTELER / GRADES
KLP 2355 - 2365
CNMG16
KLP 2175 - 2185
CNMG16
KLP 2355 - 2365
CNMG19
KLP 2175 - 2185
CNMG19
CNMA - CNMG

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
CNMA 190612 A	15,9	16,12	6,35	1,20	6,30
CNMG 190612 NR	15,9	16,12	6,35	1,20	6,30
CNMA 160616 A	15,9	16,12	6,35	1,60	6,30
CNMG 160616 NR	15,9	16,12	6,35	1,60	6,30
CNMA 160612 A	19,05	19,60	6,35	1,20	8,10
CNMG 160612 NR	19,05	19,60	6,35	1,20	8,10

A
KLP 2355

NR
KLP 2175


	KLP 1550	KLP 2175	KLP 2185	KLP 2355	KLP 2365
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Çelik /
Steel

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Paslanmaz Çelik /
Stainless Steel

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Döküm /
Cast Iron

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Aluminyum /
Aluminum

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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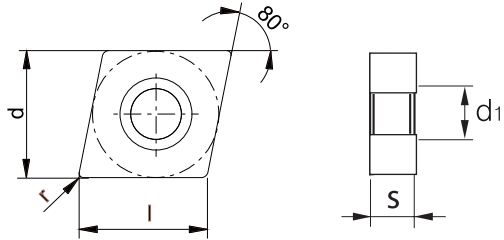
Özel Alaşımlar /
Special Alloy

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Sertleştirilmiş Çelik /
Hardened Steel

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Kaliteler / Grades



KALİTELER / GRADES

KLP 2175 - 2185

NF - NM1 - NR

KLP 2355 - 2365

KLP 1550

CNMA - CNMG

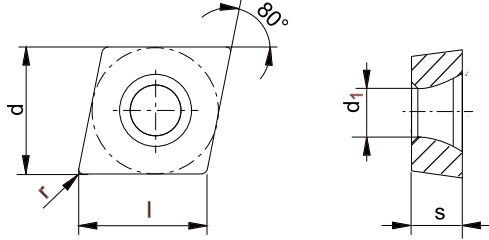
KOD / CODE	d (mm)	l (mm)	s (mm)	r (mm)	d1 (mm)
CNMA 120408 NF	12,7	12,90	4,76	0,80	5,20
CNMG 120408 NM	12,7	12,90	4,76	0,40	5,20
CNMG 120408 NM1	12,7	12,90	4,76	0,40	5,20
CNMG 120408 NR	12,7	12,90	4,76	0,40	5,20
CNMG 120408 A	12,7	12,90	4,76	0,80	5,20
CNMG 120412 A	12,7	12,90	4,76	0,80	5,20
CNMG 120412 NR	12,7	12,90	4,76	0,80	5,20



KLP 1550	KLP 2175	KLP 2185	KLP 2355	KLP 2365
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Çelik / Steel	✓	✓	✓	✓	✓
Paslanmaz Çelik / Stainless Steel	✓				
Döküm / Cast Iron				✓	✓
Alüminyum / Aluminum					
Özel Alaşım / Special Alloy					
Sertleştirilmiş Çelik / Hardened Steel		✓		✓	

Kaliteler / Grades


KALİTELER / GRADES
KLP 1150

CCMT 06

KLP 1150

CCMT 09

KLP 1150

CCMT 12

KLP 2175 - 85

CCMT 06

KLP 2175 - 85

CCMT 09

KLP 2175 - 85

CCMT 12

CCMT

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
CCMT 0602004 RF	6,35	6,45	2,38	0,40	2,81
CCMT 060204 PM	6,35	6,45	2,38	0,40	2,81
CCMT 09T304 PF	9,52	9,67	3,97	0,40	4,40
CCMT 09T304 PM	9,52	9,67	3,97	0,40	4,40
CCMT 09T308 PF	9,52	9,67	3,97	0,80	4,40
CCMT 09T308 PM	9,52	9,67	3,97	0,80	4,40
CCMT 120408 PF	12,07	12,09	4,76	0,80	5,50
CCMT 120408 PM	12,07	12,09	4,76	0,80	5,50

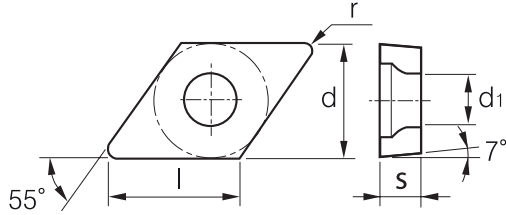
CCMT 060204 PF **CCMT 060204 PM** **CCMT 09T304 PF** **CCMT 09T304 PM** **CCMT 09T308 PF** **CCMT 09T308 PM** **CCMT 120408 PF** **CCMT 120408 PM**
 KLP 1150 KLP 1150 KLP 1150 KLP 1150 KLP 1150 KLP 1150 KLP 1150 KLP 1150



KLP 1150 **KLP 2175** **KLP 2185** **KLP 2355** **KLP 2365**

Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Döküm / Cast Iron	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşımlar / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Kaliteler / Grades



KALİTELER / GRADES

KLP 1150

DCMT 07

KLP 1150

DCMT 11

KLP 2175 - 2185

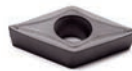
DCMT 07

KLP 2175 - 2185

DCMT 11

DCMT

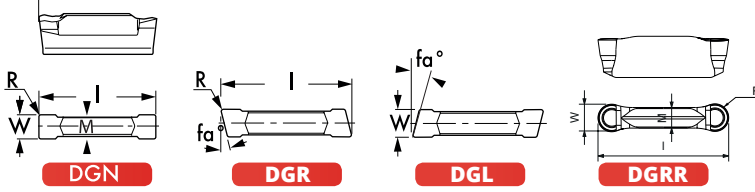
KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
DCMT 070202 PF	6,35	7,75	2,38	0,20	2,81
DCMT 070202 PM	6,35	7,75	2,38	0,20	2,81
DCMT 070204 PF	6,35	7,75	2,38	0,40	2,81
DCMT 070204 PM	6,35	7,75	2,38	0,40	2,81
DCMT 11T304 PF	9,52	11,63	3,97	0,40	4,40
DCMT 11T304 PM	9,52	11,63	3,97	0,40	4,40
DCMT 11T308 PF	9,52	11,63	3,97	0,80	4,40
DCMT 11T308 PM	9,52	11,63	3,97	0,80	4,40

DCMT 070202 PM
KLP 1150DCMT 11T308 PM
KLP 1150DCMT 11T304 PM
KLP 1150DCMT 070202 PF
KLP 1150DCMT 11T308 PF
KLP 1150DCMT 11T304 PF
KLP 1150

KLP 1150	KLP 2175	KLP 2185	KLP 2355	KLP 2365
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Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Döküm / Cast Iron	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Alüminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşım / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Kaliteler / Grades


KALİTELER / GRADES
KLP 1550
DGN 2102
KLP 1550
DGN 3102
KLP 1550
DGR 3102 - DGL 3102
KLP 1550
DGN 4003 - DGN 4040
DGN

KOD / CODE	W	l (mm)	R	M	fa°
DGN 2002	2.00	19.90	0.20	1.70	--
DGN 3102	3.10	20.00	0.20	2.40	--
DGR 3102	3.10	21.00	0.20	2.40	6.0
DGL 3102	3.10	21.00	0.20	2.40	6.0
DGN 4003	4.00	18.80	0.30	3.00	--
DGRR 4020	4.00	18.80	2.00	3.00	--

DGN 2002
KLP 1550

DGN 3102
KLP 1550

DGL 3102
KLP 1550

DGR 3102
KLP 1550

DGN 4003
KLP 1550

DGRR 4020
KLP 1550

KLP 1550
Çelik /
Steel

Paslanmaz Çelik /
Stainless Steel

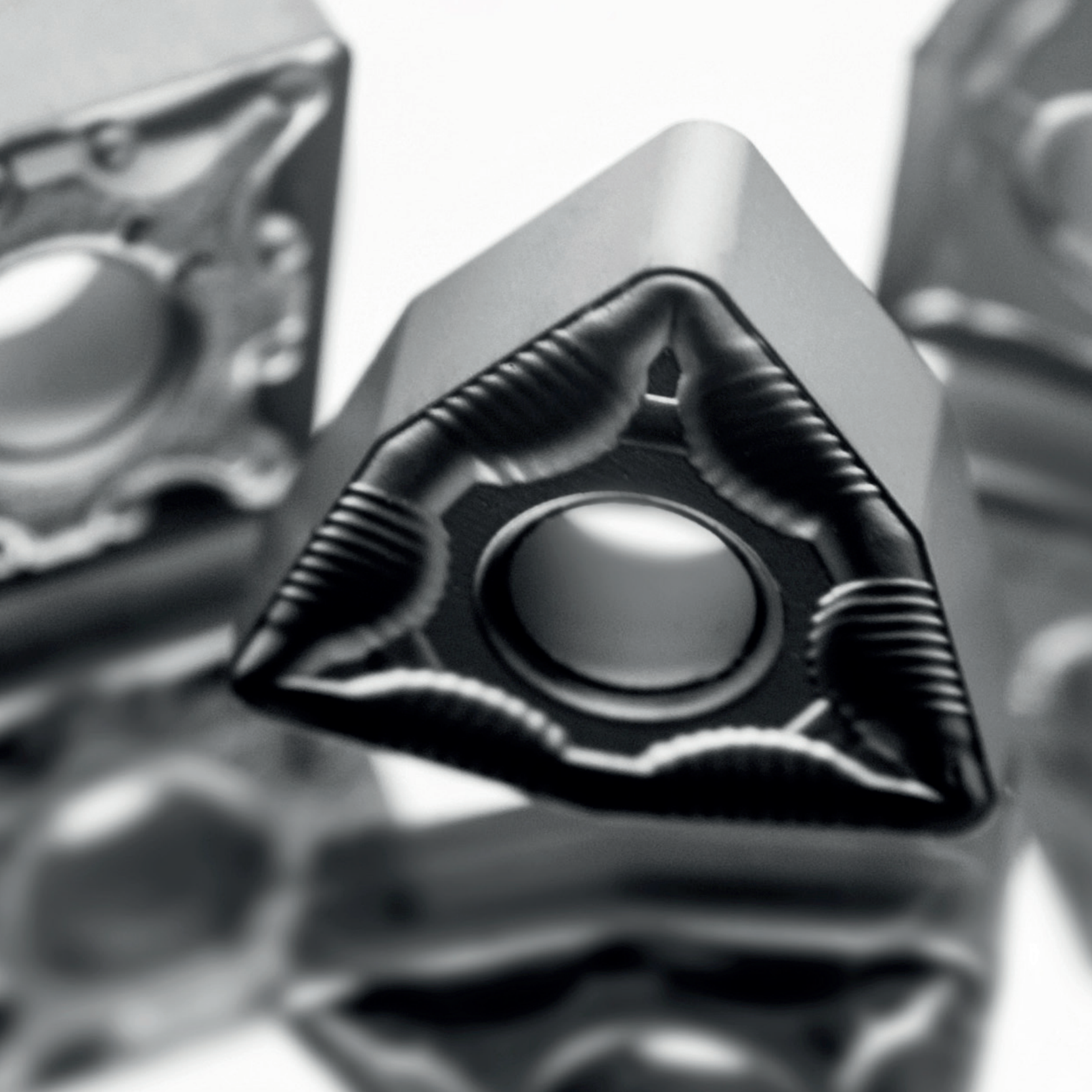
Döküm /
Cast Iron

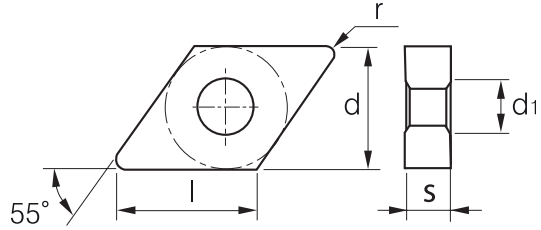
Aluminyum /
Aluminum

Özel Alaşımlar /
Special Alloy

Sertleştirilmiş Çelik /
Hardened Steel

Kaliteler / Grades





DNMA-DNMG

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
DNMA 150608	12,70	15,50	6,50	0,80	5,20
DNMA 150612	12,70	15,50	6,50	1,20	5,20
DNMG 150604 NR	12,70	15,50	6,50	0,40	5,20
DNMG 150604 NM	12,70	15,50	6,50	0,40	5,20
DNMG 150604 NM1	12,70	15,50	6,50	0,40	5,20
DNMG 150604 NF	12,70	15,50	6,50	0,40	5,20
DNMG 150604 LR	12,70	15,50	6,50	0,40	5,20
DNMG 150604 RL	12,70	15,50	6,50	0,40	5,20

Kaliteler / Grades

	KLP 1550	KLP 2175	KLP 2185	KLP 2355	KLP 2365
Çelik / Steel	✓	✓	✓		
Paslanmaz Çelik / Stainless Steel	✓				
Döküm / Cast Iron				✓	✓
Aluminyum / Aluminum					
Özel Alaşımlar / Special Alloy					
Sertleştirilmiş Çelik / Hardened Steel		✓		✓	

KALİTELER / GRADES

KLP 1150 - 1550

NM

KLP 2175 - 2185

NF, NM, NM1, NR, NR1, LR, RL

KLP 2355 - 2365

DNMA 150608, DNMA 150612

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
DNMG 150608 NR	12,70	15,50	6,50	0,80	5,20
DNMG 150608 NR1	12,70	15,50	6,50	0,80	5,20
DNMG 150608 NM	12,70	15,50	6,50	0,80	5,20
DNMG 150608 NM1	12,70	15,50	6,50	0,80	5,20
DNMG 150608 LR	12,70	15,50	6,50	0,80	5,20
DNMG 150608 RL	12,70	15,50	6,50	0,80	5,20
DNMG 150612 NR	12,70	15,50	6,50	1,20	5,20
DNMG 150612 NR1	12,70	15,50	6,50	1,20	5,20
DNMG 150612 NM	12,70	15,50	6,50	1,20	5,20
DNMG 150612 NM1	12,70	15,50	6,50	1,20	5,20

A

KLP 2355

**NR**

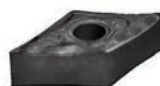
KLP 2185

**NR1**

KLP 2185

**NM**

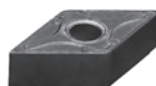
KLP 2185

**NM1**

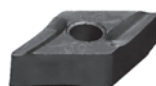
KLP 2185

**NF**

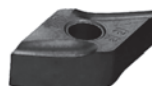
KLP 2185

**L**

KLP 2355

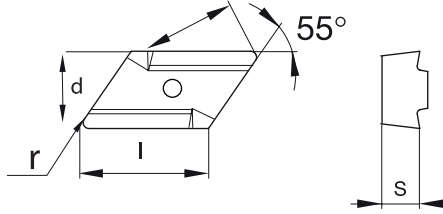
**R**

KLP 2185

**NM**

KLP 1550





KALİTELER / GRADES

KLP 2175 - 2185

KNUX

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
KNUX 160405 R	9,52	19,72	4,76	0,50	--
KNUX 160405 L	9,52	19,72	4,76	0,50	--

KNUX 160405 R
KLP 2185



KNUX 160405 L
KLP 2185

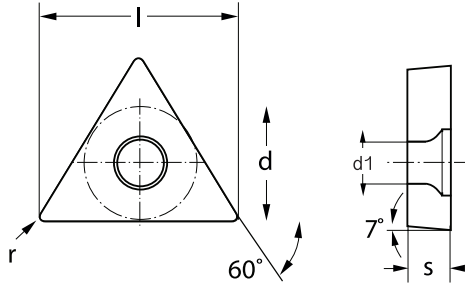


Kaliteler / Grades

	KLP 2175	KLP 2185
Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Döküm / Cast Iron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşımlar / Special Alloy	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>

TCMT

Kaliteler / Grades



KALİTELER / GRADES

KLP 1150

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
TCMT 160404 PM	9,52	16,50	3,97	0,40	4,30
TCMT 160408 PM	9,52	16,50	3,97	0,80	4,30

TCMT 160404 PM
KLP 1150



TCMT 160408 PM
KLP 1150



KLP 1150

Çelik /
Steel



Paslanmaz Çelik /
Stainless Steel



Döküm /
Cast Iron



Alüminyum /
Aluminum

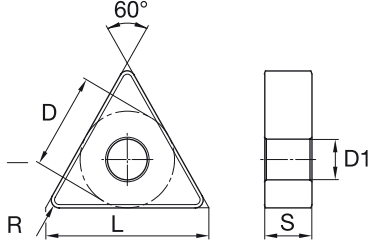


Özel Alaşım /
Special Alloy



Sertleştirilmiş Çelik /
Hardened Steel





TNMA-TNMG

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
TNMA 160408	9,52	16,5	4,76	0,80	3,80
TNMA 160412	9,52	16,5	4,76	1,20	3,80
TNMG 160404 NR1	9,52	16,5	4,76	0,40	3,80
TNMG 160404 NM	9,52	16,5	4,76	0,40	3,80
TNMG 160404 NM1	9,52	16,5	4,76	0,40	3,80
TNMG 160404 NF	9,52	16,5	4,76	0,40	3,80

Kaliteler / Grades

	KLP 1550	KLP 2175	KLP 2185	KLP 2355	KLP 2365
Çelik / Steel	✓	✓	✓		
Paslanmaz Çelik / Stainless Steel	✓				
Döküm / Cast Iron				✓	✓
Aluminyum / Aluminum					
Özel Alaşımlar / Special Alloy	✓		✓		
Sertleştirilmiş Çelik / Hardened Steel	✓	✓		✓	

KALİTELER / GRADES

KLP 1550

NM

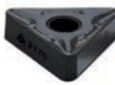
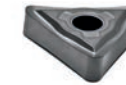
KLP 2175 - 2185

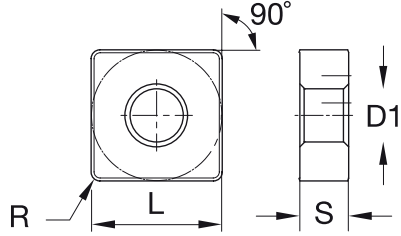
NR, NR1, NM, NM1, NF, NF1

KLP 2365 - 2355

A- NR

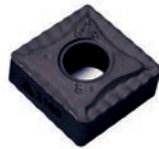
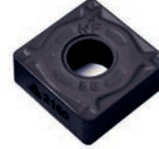
KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
TNMG 160408 NR	9,52	16,5	4,76	0,80	3,80
TNMG 160408 NR1	9,52	16,5	4,76	0,80	3,80
TNMG 160408 NM	9,52	16,5	4,76	0,80	3,80
TNMG 160408 NM1	9,52	16,5	4,76	0,80	3,80
TNMG 160408 NF	9,52	16,5	4,76	0,80	3,80
TNMG 160408 NF1	9,52	16,5	4,76	0,80	3,80
TNMG 160408 RR	9,52	16,5	4,76	0,80	3,80
TNMG 160408 LR	9,52	16,5	4,76	0,80	3,80
TNMG 160412 NR	9,52	16,5	4,76	1,20	3,80
TNMG 160412 NR1	9,52	16,5	4,76	1,20	3,80
TNMG 160412 NM	9,52	16,5	4,76	1,20	3,80
TNMG 160412 NM1	9,52	16,5	4,76	1,20	3,80
TNMG 160412 RR	9,52	16,5	4,76	1,20	3,80
TNMG 160412 LR	9,52	16,5	4,76	1,20	3,80

A
KLP 2365NR
KLP 2185NR1
KLP 2185NM
KLP 2185NM1
KLP 2185NF
KLP 2185NF1
KLP 2185NM
KLP 1550


KALİTELER / GRADES
KLP 2175 - 2185
NR1, NF1
KLP 2365 - 2355
SNMA
SNMA-SNMG

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
SNMG 120408 A	12,7	12,90	4,76	0,80	5,20
SNMG 120408 NR1	12,7	12,90	4,76	0,80	5,20
SNMI 120408 NMI	12,7	12,90	4,76	0,80	5,20
SNMG 120408 NF1	12,7	12,90	4,76	0,80	5,20

SNMA 120408
KLP 2365

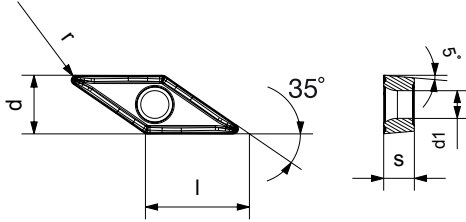
SNMG 120408 NR1
KLP 2185

SNMG 120408 NF1
KLP 2185


KLP 2175	KLP 2185	KLP 2355	KLP 2365
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Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Döküm / Cast Iron	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşımlar / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Kaliteler / Grades




KALİTELER / GRADES
KLP 1150
KLP 855
VBMT

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
VBMT 160404 PM	9,52	16	4,75	0,40	4,35
VBMT 160408 PM	9,52	16	4,75	0,80	4,35
VCMT 160412 ALU	9,52	16	4,75	0,80	4,35

VBMT 160404 PM
KLP 1150

VBMT 160408 PM
KLP 1150

VCMT 160412 RL
KLP 855

NEW
KLP 855
KLP 1150
Çelik /
Steel

Paslanmaz Çelik /
Stainless Steel

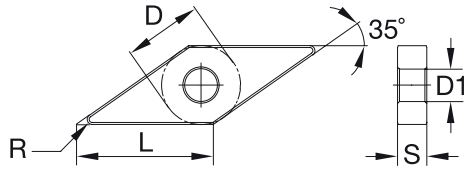
Döküm /
Cast Iron

Aluminyum /
Aluminum

Özel Alaşımlar /
Special Alloy

Sertleştirilmiş Çelik /
Hardened Steel

Kaliteler / Grades



KALİTELER / GRADES

KLP 2175

KLP 2185

VNMG

KOD / CODE	d (mm)	l (mm)	s (mm)	r (mm)	d1 (mm)
VNMG 160404 NR	9,52	12,79	4,76	0,40	3,81
VNMG 160404 NF	9,52	12,79	4,76	0,40	3,81
VNMG 160408 NR	9,52	12,79	4,76	0,80	3,81
VNMG 160408 NF	9,52	12,79	4,76	0,80	3,81

VNMG 160404 NR
KLP 2175



VNMG 160404 NF
KLP 2185



VNMG 160408 NR
KLP 2185



VNMG 160408 NF
KLP 2185



KLP 2175

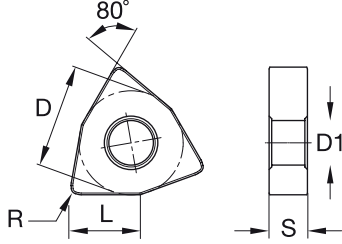
KLP 2185

KLP 2355

KLP 2365

Çelik / Steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Paslanmaz Çelik / Stainless Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Döküm / Cast Iron	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminyum / Aluminum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Özel Alaşımlar / Special Alloy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sertleştirilmiş Çelik / Hardened Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Kaliteler / Grades



WNMA-WNMG

Kaliteler / Grades

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
WNMG 060408 NR	9,52	6,45	4,76	0,80	3,80
WNMG 060408 NM	9,52	6,45	4,76	0,80	3,80
WNMG 060408 NF	9,52	6,45	4,76	0,80	3,80
WNMA 080408	12,7	8,60	4,76	0,80	5,20
WNMA 080412	12,7	8,60	4,76	1,20	5,20
WNMA 080416	12,7	8,60	4,76	1,60	5,20
WNMG 080404 NR	12,7	8,60	4,76	0,40	5,20
WNMG 080404 NR1	12,7	8,60	4,76	0,40	5,20
WNMG 080404 NM	12,7	8,60	4,76	0,40	5,20
WNMG 080404 NM1	12,7	8,60	4,76	0,40	5,20
WNMG 080404 NF	12,7	8,60	4,76	0,40	5,20

	KLP 1550	KLP 2175	KLP 2185	KLP 2355	KLP 2365
Çelik / Steel	✓	✓	✓	✓	✓
Paslanmaz Çelik / Stainless Steel	✓				
Döküm / Cast Iron				✓	✓
Aluminyum / Aluminum					
Özel Alaşımlar / Special Alloy					
Sertleştirilmiş Çelik / Hardened Steel		✓		✓	

KALİTELER / GRADES

KLP 1550 *NM*KLP 2175 - 2185- 2355 - 2365 *NR, NR1, NM, NM1, NF, NF1*KLP 1150 *WNMG 06*KLP 2175 - 2185 *WNMG 06, NF, NR*

KOD / CODE	d (mm)	l (mm)	s(mm)	r(mm)	d1 (mm)
WNMG 080408 NR	12,7	8,60	4,76	0,80	5,20
WNMG 080408 NR1	12,7	8,60	4,76	0,80	5,20
WNMG 080408 NM	12,7	8,60	4,76	0,80	5,20
WNMG 080408 NM1	12,7	8,60	4,76	0,80	5,20
WNMG 080408 NF	12,7	8,60	4,76	0,80	5,20
WNMG 080412 NR	12,7	8,60	4,76	1,20	5,20
WNMG 080412 NR1	12,7	8,60	4,76	1,20	5,20
WNMG 080412 NM	12,7	8,60	4,76	1,20	5,20
WNMG 080412 NM1	12,7	8,60	4,76	1,20	5,20
WNMG 080412 NF	12,7	8,60	4,76	1,20	5,20

060408 NR
KLP 2175060408 NM
KLP 1550A
KLP 2365NR
KLP 2185NR1
KLP 2175NF1
KLP 2185NM
KLP 2185NM1
KLP 2185NF
KLP 2185NM
KLP1550

P15 - P25

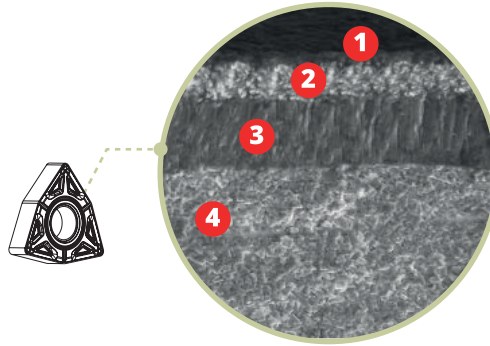
KLP 2175

Çok yüksek aşınma direncine sahip MT-CVD kaplamalı bir kalitedir. Özellikle rijit koşullarda tornalama operasyonları için önerilir. İyi işleme koşullarında yüksek kesme hızlarında çalışmak için tasarlanmıştır. *MT - CVD coated grade offering extremely high resistance against erosion. Especially suggested for turning operations under rigid conditions. Designed to operate in high speed cutting within fine process conditions.*

P25 - P35

KLP 2185

MT-CVD kaplamalı bir kalitedir. Hafif ve orta kaba tornalama, darbeli tornalama operasyonları için önerilir. Yüksek tokluğa ve dayanıma sahip genel torna kalitesidir. Yüksek ve orta kesme hızlarında çalışmak için ideal kalitedir. *MT-CVD coated grade. Suggested for lower and medium rough turning as well as impact turning operations. It is a common turning grade having a high toughness and endurance. It is ideal to operate within higher and medium cutting speed.*



- 1 TIN
- 2 AlO3
- 3 MTTCN
- 4 ALT YAPI / INFRASTRUCTURE

MT-CVD KALİTE
MT-CVD GRADES

K05 - K15

KLP 2355

Yüksek aşınma direnci ve mükemmel kenar güvenliği bir araya getirilmiş MT-CVD ile kaplanmış bir kalitedir. Ortadan yüksek kesme hızlarına kadar geniş bir aralıkta döküm malzemelerin sürekli kesim işlenmesi için tasarlanmıştır.

MT-CVD coated grade offering both high resistance against erosion and excellent edge security. Designed for continous process of cast materials, within a wide range from medium to higher speed cutting.

MT-CVD KALİTE
MT-CVD GRADES

K10 - K20

KLP 2365

Yüksek darbe dayanımı ve yüksek aşınma direncinin bir arada olduğu MT-CVD kaplamalı bir döküm kalitesidir. Döküm malzemelerin orta ve yüksek hızlarda tornalanması için gelişmiştir.

MT-CVD coated cast grade offering both high endurance against impact and high resistance against erosion. Developed for turning process of cast materials within medium and higher speed.

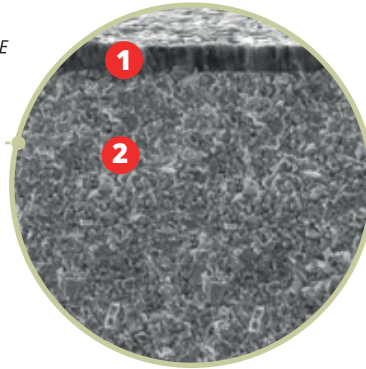
P05 - P15

KLP 1150

Çok yüksek aşınma direncine sahip NANO PVD kaplamalı bir kalitedir. Özellikle rijit koşullarda final tornalama operasyonları için önerilir. İyi işleme koşullarında yüksek kesme hızlarında çalışmak için tasarlanmıştır.

NANO PVD coated grade offering a very high resistance against erosion. Especially suggested for rigid cutting conditions and final turning operations. Designed to operate in high speed cutting under fine processing conditions.

- 1 PVD
- 2 ALT YAPI / INFRASTRUCTURE

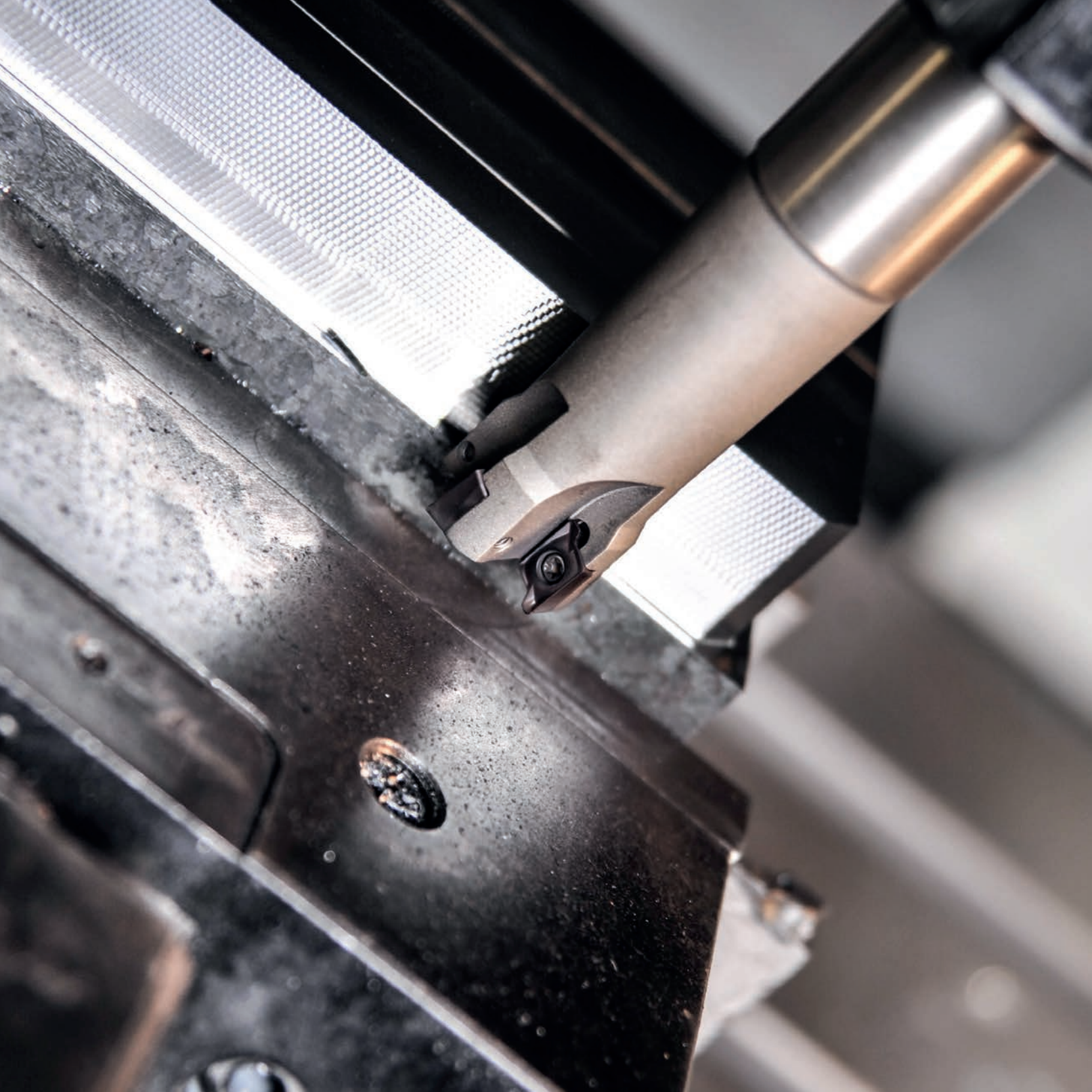


M10 - M15

KLP 1550

Yüksek işleme sıcaklıklarına dayanabilen ve NANO PVD kaplamalı bir kalitedir. Paslanmaz çelik ve sert çelik malzemelerin işlenmesi için tasarlanmıştır. Yüksek aşınma direncine sahip, darbe ve vibrasyon dayanımı zayıf, sert bir kalitedir.

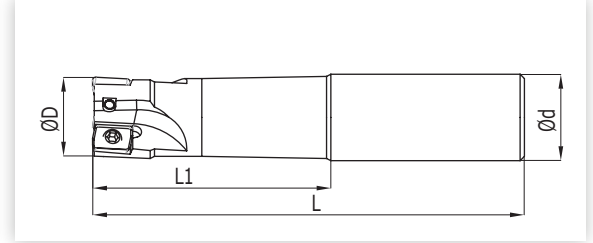
NANO - PVD coated grade with resistance against high processing heat. Designed to process stainless steel and hard steel materials. It is a rough grade offering a higher resistance against erosion but a lower resistance against impact and vibration.






FREZE UÇLARI / END MILLS

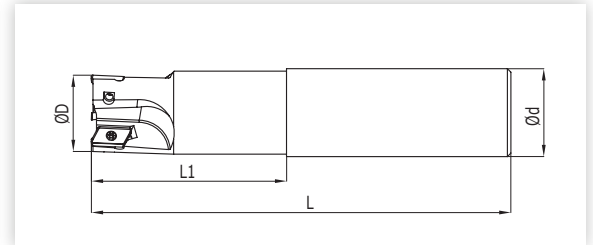





APCT 11



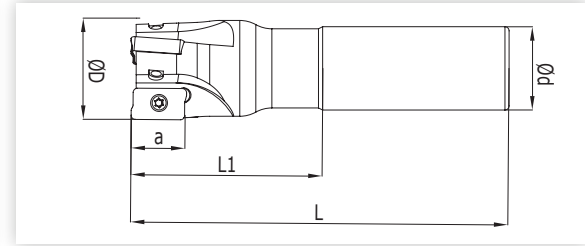
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP APCT 11		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
C90-16-2-16-150 APCT 11	✓	✓	16	2	40	150	16	APCT 11	M2.5x6	T08	
C90-20-3-20-150 APCT 11	✓	✓	20	3	40	150	20		M2.5x7		
C90-25-4-25-150 APCT 11	✓	✓	25	4	50	150	25		M2.5x8		
C90-26-4-25-150 APCT 11	✓	✓	26	4	31	150	25		M2.5x8		
C90-32-5-32-150 APCT 11	✓	✓	32	5	35	150	32		M2.5x8		
C90-32-5-32-250 APCT 11	✓	✓	32	5	100	250	32		M2.5x8		




APKT 10



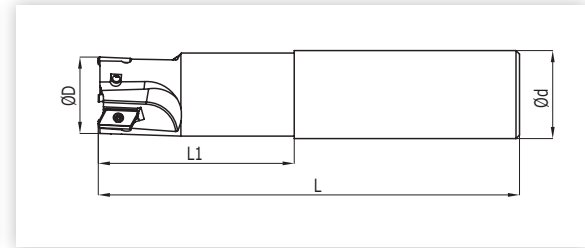
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP APKT 10		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
C90-16-2-16-150 APKT 10	✓	✓	16	2	40	150	16	APKT 10	M2.5x6	T08	
C90-17-2-16-150 APKT 10	✓	✓	17	2	25	150	16		M2.5x6		
C90-18-2-16-150 APKT 10	✓	✓	18	2	25	150	16		M2.5x6		
C90-20-3-20-120 APKT 10	✓	✓	20	3	40	120	20		M2.5x6		
C90-20-3-20-150 APKT 10	✓	✓	20	3	45	150	20		M2.5x6		
C90-21-3-20-200 APKT 10	✓	✓	21	3	50	200	20		M2.5x6		
C90-22-3-20-150 APKT 10	✓	✓	22	3	45	150	20		M2.5x7		
C90-25-4-25-150 APKT 10	✓	✓	25	4	50	150	25		M2.5x7		
C90-25-4-25-200 APKT 10	✓	✓	25	4	60	200	25		M2.5x7		
C90-26-4-25-150 APKT 10	✓	✓	26	4	50	150	25		M2.5x8		
C90-32-5-32-150 APKT 10	✓	✓	32	5	35	150	32		M2.5x8		
C90-35-5-32-150 APKT 10	✓	✓	35	5	35	150	32		M2.5x8		
C90-40-6-32-150 APKT 10	✓	✓	40	5	40	150	32		M2.5x8		




APKT 16



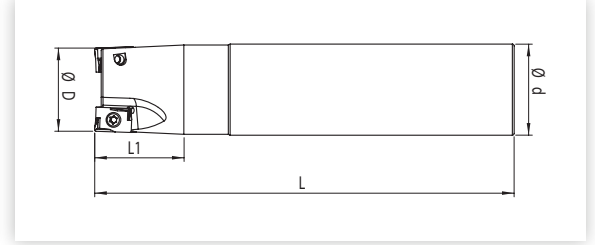
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP APKT 16		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
C90-25-2-25-150 APKT 16	✓	✓	25	2	50	150	25	APKT 16		M3.5x8	T15
C90-26-2-25-150 APKT 16	✓	✓	26	2	50	150	25			M3.5x8	
C90-30-3-25-150 APKT 16	✓	✓	30	3	35	150	25			M3.5x10	
C90-30-3-25-250 APKT 16	✓	✓	30	3	35	250	25			M3.5x10	
C90-32-3-32-150 APKT 16	✓	✓	32	3	50	150	32			M3.5x10	
C90-32-3-32-250 APKT 16	✓	✓	32	3	100	250	32			M3.5x10	
C90-35-3-32-150 APKT 16	✓	✓	35	3	40	150	32			M3.5x10	
C90-40-4-32-150 APKT 16	✓	✓	40	4	40	150	32			M3.5x10	




APXT 10



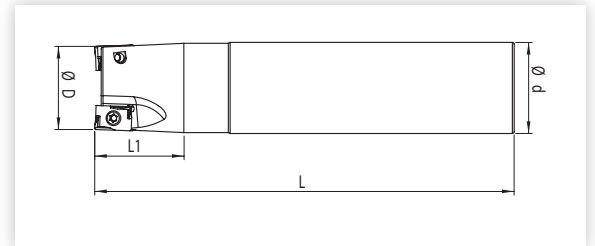
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP APXT 10		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
C90-16-2-16-150 APXT 10	✓	✓	16	2	40	150	16	APXT 10		M2.5x6	T08
C90-17-2-16-150 APXT 10	✓	✓	17	2	25	150	16			M2.5x6	
C90-18-2-16-150 APXT 10	✓	✓	18	2	25	150	16			M2.5x6	
C90-20-3-20-150 APXT 10	✓	✓	20	3	25	150	20			M2.5x7	
C90-21-3-20-200 APXT 10	✓	✓	21	3	50	200	20			M2.5x7	
C90-22-3-20-150 APXT 10	✓	✓	22	3	25	150	20			M2.5x7	
C90-25-4-25-150 APXT 10	✓	✓	25	4	50	150	25			M2.5x8	
C90-25-4-25-200 APXT 10	✓	✓	25	4	60	200	25			M2.5x8	
C90-26-4-25-150 APXT 10	✓	✓	26	4	50	150	25			M2.5x8	
C90-32-5-32-150 APXT 10	✓	✓	32	5	35	150	32			M2.5x8	
C90-40-6-32-150 APXT 10	✓	✓	40	6	40	150	32			M2.5x8	




LNMX 10



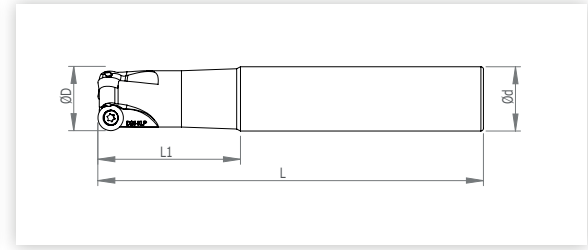
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP LNMX 10		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
C90-16-2-16-150 LNMX 10	✓	✓	16	2	40	150	16	LNMX 10		M3x6	T10
C90-18-2-16-150 LNMX 10	✓	✓	18	2	25	150	16			M3x6	
C90-20-2-20-150 LNMX 10	✓	✓	20	2	40	150	20			M3x8	
C90-25-4-25-150 LNMX 10	✓	✓	25	4	35	150	25			M3x8	
C90-26-4-25-150 LNMX 10	✓	✓	26	4	35	150	25			M3x8	
C90-32-4-32-150 LNMX 10	✓	✓	32	4	40	150	32			M3x8	




LNMX 15



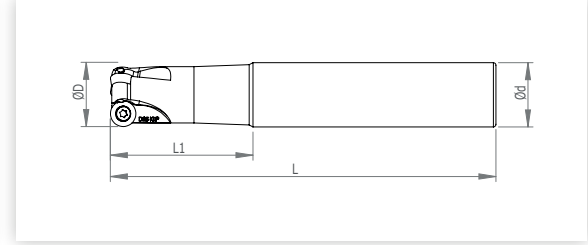
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP LNMX 15		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
C90-32-3-32-150 LNMX 15	✓	✓	32	3	50	150	32	LNMX 15		M3x8	T10
C90-40-4-32-150 LNMX 15	✓	✓	40	4	40	150	32			M3x8	




RHKW 08



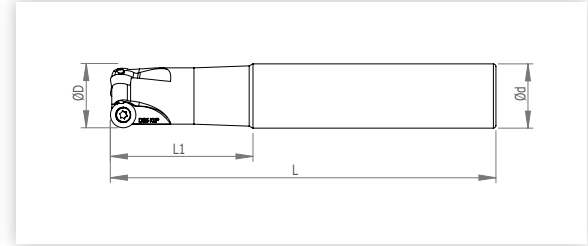
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP RHKW 08		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
CR-16-2-16-150 RHKW 08	✓	✓	16	2	40	150	16		RHKW 08	M3x6	T10
CR-20-3-20-150 RHKW 08	✓	✓	20	3	40	150	20	M3x6			
CR-25-4-25-150 RHKW 08	✓	✓	25	4	50	150	25	M3x6			




RHKW 10



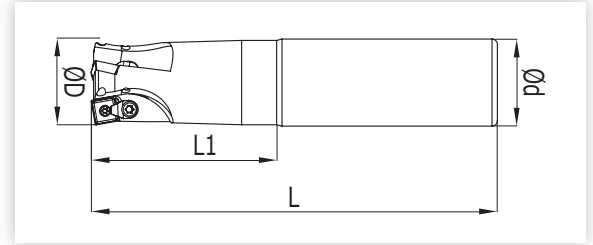
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP RHKW 10		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
CR-20-2-20-150 RHKW 10	✓	✓	20	2	50	150	20		RHKW 10	M3.5x6	T15
CR-25-3-25-150 RHKW 10	✓	✓	25	3	50	150	25	M3.5x8			
CR-32-4-32-150 RHKW 10	✓	✓	32	4	60	150	32	M3.5x8			




RHKW 12



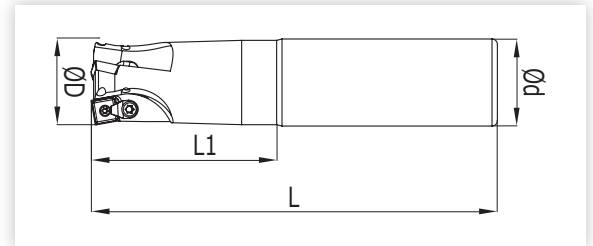
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP RHKW 12		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
CR-25-2-25-150 RHKW 12	✓	✓	25	2	50	150	25		RHKW 12	M3.5x8	T15
CR-32-4-32-150 RHKW 12	✓	✓	32	4	50	150	32	M3.5x8			




SDMT 07



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP SDMT 07		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
CH-20-2-20-150 SDMT 07	✓	✓	20	2	45	150	20	SDMT 07	M3x8	T10	
CH-22-3-20-150 SDMT 07	✓	✓	22	3	25	150	20		M3x8		
CH-25-4-25-150 SDMT 07	✓	✓	25	4	50	150	25		M3x8		

SDMT 09

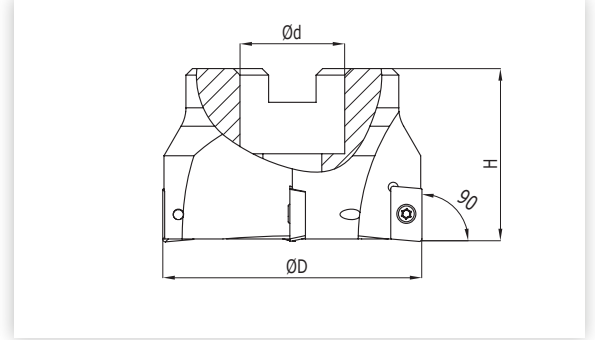





Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP SDMT 09		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
CH-25-3-25-150 SDMT 09	✓	✓	25	3	50	150	25	SDMT 09	M3.5x8	T15	
CH-26-3-25-150 SDMT 09	✓	✓	26	3	35	150	25		M3.5x8		
CH-32-4-32-150 SDMT 09	✓	✓	32	4	70	150	32		M3.5x8		

TARAMA KAFALARI / FACE MILLINGS

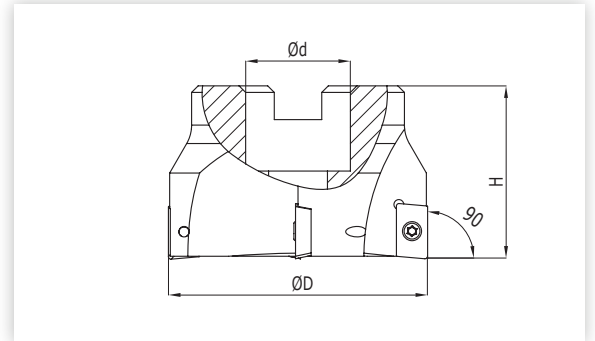





APKT 10



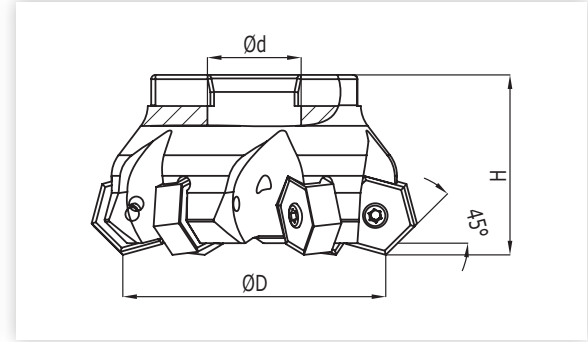
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d			
							Uç Insert	Vida Screw	Anahtar Torx Key
KLP APKT 10									
A90-40-5-16 APKT 10	✓	✓	40	5	45	16	APKT 10	M2.5x7	T08
A90-50-6-22 APKT 10	✓	✓	50	6	45	M2.5x7			
A90-63-7-22 APKT 10	✓	✓	63	7	45	M2.5x7			




APKT 16



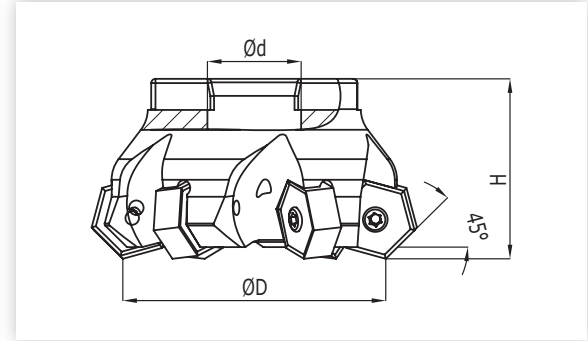
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d			
							Uç Insert	Vida Screw	Anahtar Torx Key
KLP APKT 16									
A90-40-4-16 APKT 16	✓	✓	40	4	45	16	APKT 16	M3.5x11	T15
A90-50-5-22 APKT16	✓	✓	50	5	45	M3.5x11			
A90-63-6-22 APKT 16	✓	✓	63	6	45	M3.5x11			
A90-80-8-27 APKT 16	✓		80	8	52	M3.5x11			
A90-100-10-32 APKT 16	✓		100	10	52	M3.5x11			




HNMX 09



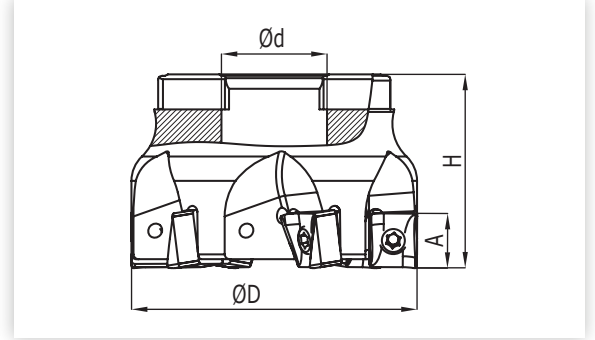
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
KLP HNMX 09		Inter Cooland	D	Z	H	d		Uç Insert	Vida Screw	Anahtar Torx Key
A45-50-5-22 HNMX 09	✓	✓	50	5	40	22		HNMX 09	M4x12	T15
A45-63-6-22 HNMX 09	✓	✓	63	6	40	22	M4x12			
A45-80-8-27 HNMX 09	✓	✓	80	8	50	27	M4x12			




HNMX 10



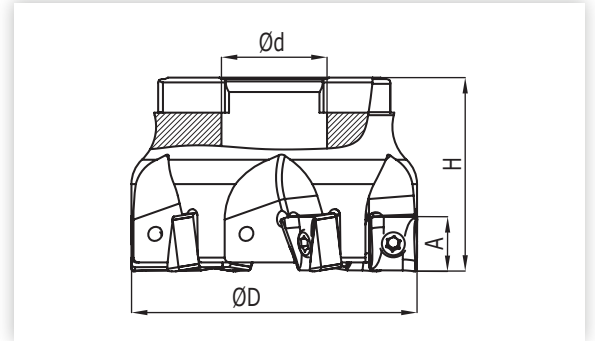
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
KLP HNMX 10		Inter Cooland	D	Z	H	d		Uç Insert	Vida Screw	Anahtar Torx Key
A45-100-9-32 HNMX 10	✓	✓	100	9	50	32		HNMX 10	M4x12	T15
A45-125-10-40 HNMX 10	✓	✓	125	10	62	40	M4x12			
A45-160-12-40 HNMX 10	✓	✓	160	12	62	40	M4x12			




LNMX 10



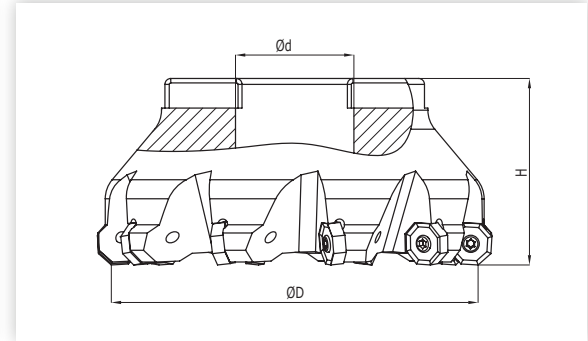
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
KLP LNMX 10		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
A90-40-5-16 LNMX 10	✓	✓	40	5	40	16	LNMX 10	M3x10	T10	
A90-50-6-22 LNMX 10	✓	✓	50	6	40	M3x10				


LNMX 15



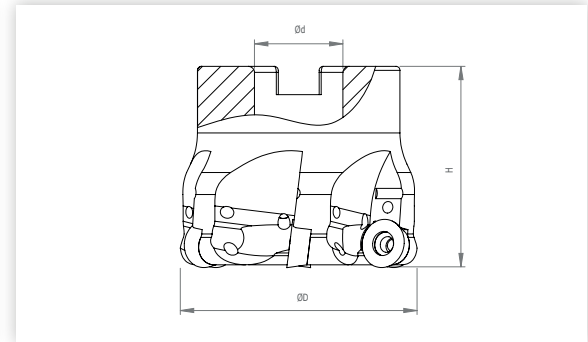
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
KLP LNMX 15		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
A90-50-5-22 LNMX 15	✓	✓	50	5	40	22	LNMX 15	M4x11	T15	
A90-63-6-22 LNMX 15	✓	✓	63	6	40	M4x11				
A90-80-7-27 LNMX 15	✓	✓	80	7	52	M4x11				
A90-100-8-32 LNMX 15	✓	✓	100	8	52	M4x11				


ONMU 05



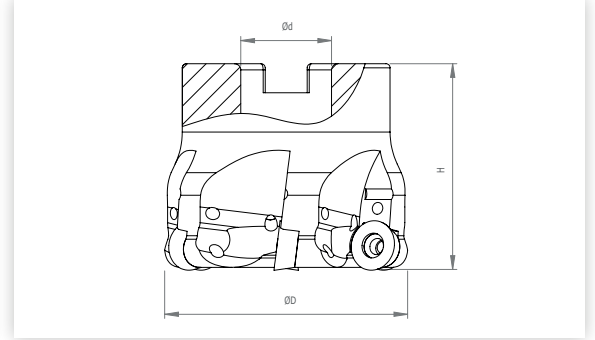
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d			
							Uç Insert	Vida Screw	Anahtar Torx Key
KLP ONMU 05							ONMU 05	M4.5x12	T20
A45-50-5-22 ONMU 05	✓	✓	50	5	40	22	ONMU 05	M4.5x12	T20
A45-63-6-22 ONMU 05	✓	✓	63	6	45	22		M4.5x12	
A45-80-8-27 ONMU 05	✓	✓	80	8	52	27		M4.5x12	
A45-100-10-32 ONMU 05	✓	✓	100	10	52	32		M4.5x12	
A45-125-11-40 ONMU 05	✓	✓	125	11	62	40		M4.5x12	


RHKT 16



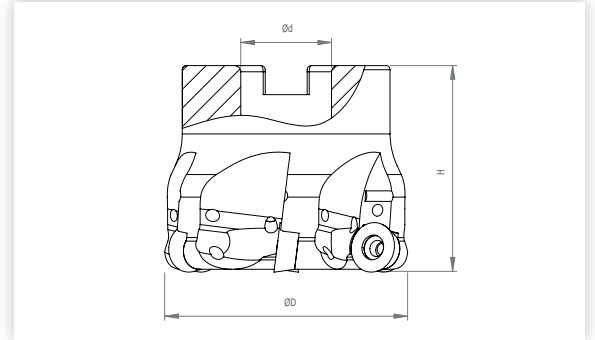
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d					
							Uç Insert	Vida Screw	Papuç Clamp	Vida Screw	Anahtar Torx Key
KLP RHKT 16							RHKT 16	M5x12	TP11	M4x11	T20
AR-50-5-22 RHKT 16	✓	✓	50	5	46	22	RHKT 16	M5x12	TP11	M4x11	T20
AR-52-5-22 RHKT 16	✓	✓	52	5	46	22		M5x12		M4x11	
AR-63-6-22 RHKT 16	✓	✓	63	6	50	22		M5x12		M4x11	
AR-80-7-27 RHKT 16	✓	✓	80	7	52	27		M5x12		M4x11	
AR-100-9-32 RHKT 16	✓	✓	100	9	52	32		M5x12		M4x11	


RHKW 10



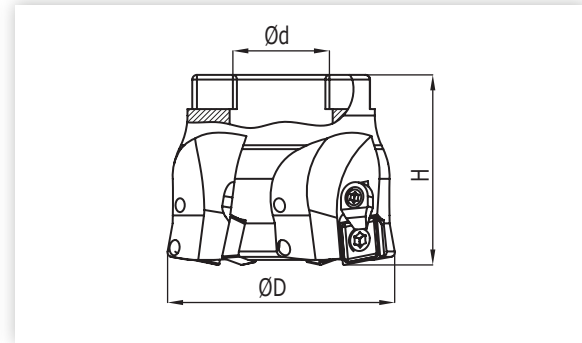
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d					
							Uç Insert	Vida Screw	Papuç Clamp	Vida Screw	Anahtar Torx Key
KLP RHKW 10							RHKW 10	M3.5x10	CK14	M3.5x8	T15
AR-50-6-22 RHKW 10	✓	✓	50	6	46	22	M3.5x10	M3.5x8			
AR-63-7-22 RHKW 10	✓	✓	63	7	50	22	M3.5x10	M3.5x8			

RHKW 12



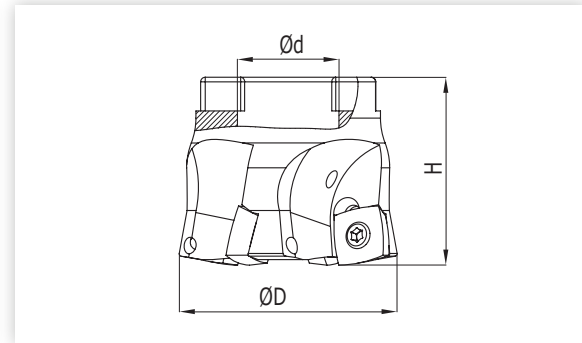
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d					
							Uç Insert	Vida Screw	Papuç Clamp	Vida Screw	Anahtar Torx Key
KLP RHKW 12							RHKW 12	M3.5x10	CK14	M3.5x8	T15
AR-50-6-22 RHKW 12	✓	✓	50	6	46	22	M3.5x10	M3.5x8			
AR-63-7-22 RHKW 12	✓	✓	63	7	50	22	M3.5x10	M3.5x8			
AR-80-8-27 RHKW 12	✓	✓	80	8	52	27	M3.5x10	M3.5x8			




SDMT 09



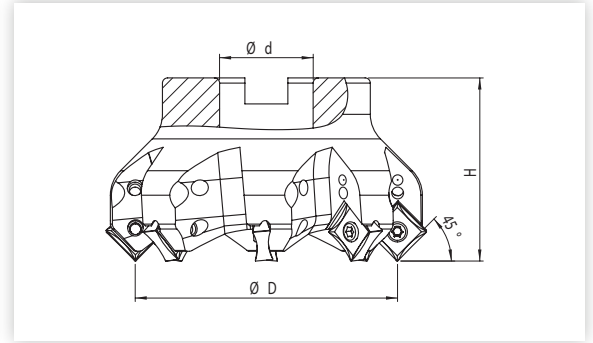
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Papuç Clamp	Vida Screw	Anahtar Torx Key
KLP SDMT 09											
AH-52-6-22 SDMT 09	✓	✓	52	6	40	22	SDMT 09	M3.5x11	CK14	M3.5x11	T15
AH-63-7-22 SDMT 09	✓	✓	63	7	40	22		M3.5x11		M3.5x11	






SDMT 12



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
KLP SDMT 12									
AH-52-5-22 SDMT 12	✓	✓	52	5	40	22	SDMT 12	M3.5x10	T15
AH-63-6-22 SDMT 12	✓	✓	63	6	45	22		M3.5x10	
AH-80-7-27 SDMT 12	✓	✓	80	7	50	27		M3.5x10	

SNMX 12

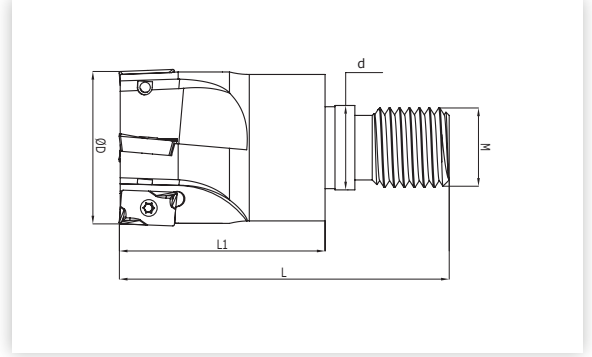





Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Papuç Clamp	Vida Screw	Anahtar Torx Key	
KLP SNMX 12												
A45-50-5-22 SNMX 12	✓	✓	50	5	40	22	SNMX 12	M4x12	CK15	M4x12	T15	
A45-50-5-22 SNMX 12	✓	✓	63	6	40	M4x12		M4x12				
A45-80-8-27 SNMX 12	✓	✓	80	8	50	M4x12		M4x12				
A45-100-10-32 SNMX 12	✓	✓	100	10	50	M4x12		M4x12				
A45-125-11-40 SNMX 12	✓	✓	125	11	62	M4x12		M4x12				
A88-50-5-22 SNMX 12	✓	✓	50	5	40	M4x12		M4x12				
A88-63-6-22 SNMX 12	✓	✓	63	6	40	M4x12		M4x12				
A88-80-8-27 SNMX 12	✓	✓	80	8	50	M4x12		M4x12				
A88-100-10-32 SNMX 12	✓	✓	100	10	50	M4x12		M4x12				
A88-125-11-40 SNMX 12	✓	✓	125	11	62	M4x12		M4x12				

VIDALI TAKIMLAR / MODULAR TOOLS

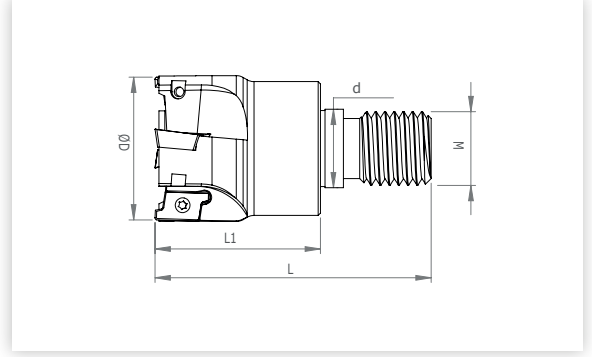





APKT 10



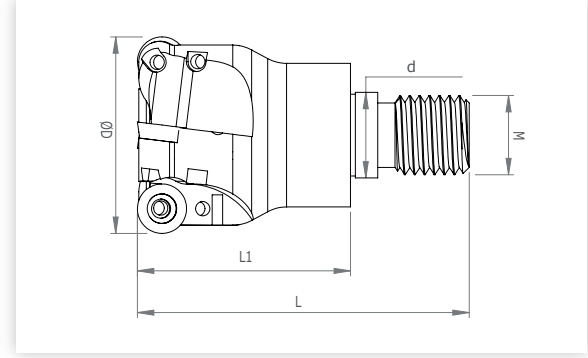
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP APKT 10		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
KV-25-5-M12 APKT 10	✓	✓	25	5	28	50	12.5	APKT 10	M2.5x7	T08	
KV-32-5-M16 APKT 10	✓	✓	32	5	35	60	17		M2.5x7		
KV-35-5-M16 APKT 10	✓	✓	35	5	35	60	17		M2.5x7		
KV-40-6-M16 APKT 10	✓	✓	40	6	35	60	17		M2.5x7		
KV-42-6-M16 APKT 10	✓	✓	42	6	35	60	17		M2.5x7		




APXT 10



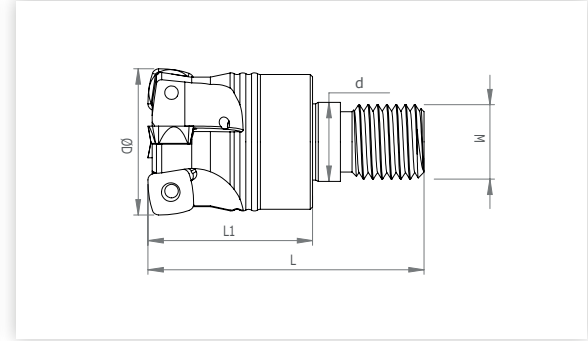
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP APXT 10		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
KV-25-4-M12 APXT 10	✓	✓	25	4	28	50	M12	APXT 10	M2.5x6		
KV-32-5-M16 APXT 10	✓	✓	32	5	35	60	M16		M2.5x6		
KV-40-6-M16 APXT 10	✓	✓	40	6	35	60	M16		M2.5x6		
KV-42-6-M16 APXT 10	✓	✓	42	6	35	60	M16		M2.5x6		




RHKW 10



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP RHKW 10		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
KVR-25-3-M12 RHKW 10	✓	✓	25	3	28	52	12.5	RHKW 10		M3.5x8	T15
KVR-32-4-M16 RHKW 10	✓	✓	32	4	40	64	17			M3.5x8	
KVR-35-4-M16 RHKW 10	✓	✓	35	4	40	64	17			M3.5x8	
KVR-40-5-M16 RHKW 10	✓	✓	40	5	40	67	17			M3.5x8	
KVR-42-5-M16 RHKW 10	✓	✓	42	5	40	67	17			M3.5x8	

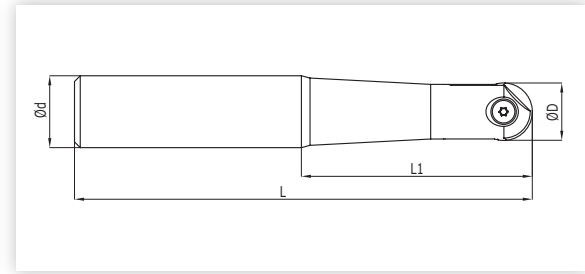
SDMT 09






Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP SDMT 09		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
KVH-25-3-M12 SDMT 09	✓	✓	25	3	28	50	12.5	SDMT 09		M3.5x8	T15
KVH-32-4-M16 SDMT 09	✓	✓	32	4	35	60	17			M3.5x8	
KVH-35-4-M16 SDMT 09	✓	✓	35	4	35	60	17			M3.5x8	
KVH-40-5-M16 SDMT 09	✓	✓	40	5	35	60	17			M3.5x8	
KVH-42-5-M16 SDMT 09	✓	✓	42	5	35	60	17			M3.5x8	




PROFIL TAKIMLARI / PROFILE MILLINGS






**KFB 100**

Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP KFB 100		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
Q10-1-12-150 KFB	✓	✓	10	1	45	150	12	KFB 10	M4x0,5x9	T15	




KFB 120

Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP KFB 120		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
Q12-1-16-150 KFB	✓	✓	12	1	45	150	16	KFB 12	M4x0,5x9	T15	




KFB 160

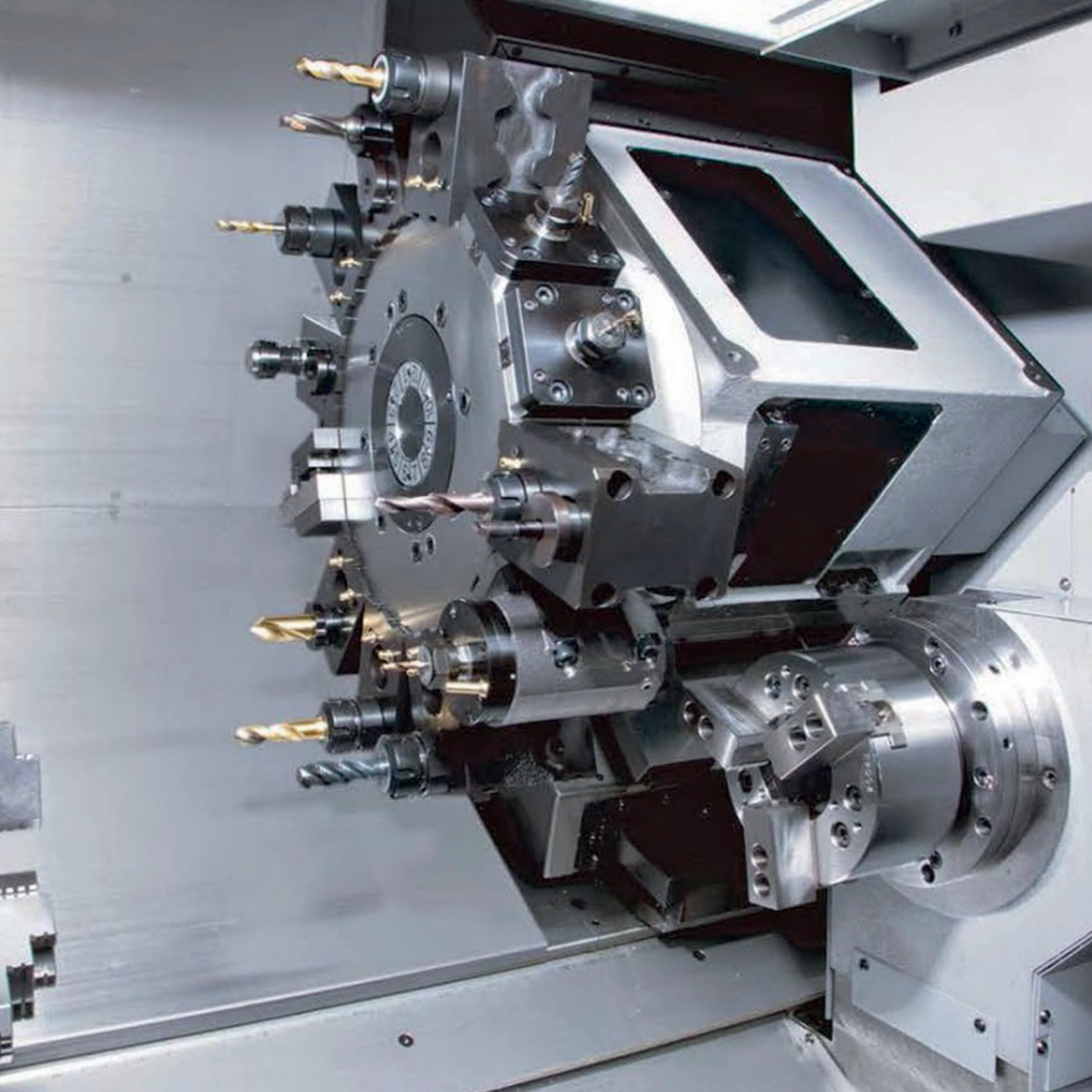
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP KFB 160		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
Q16-1-20-150 KFB	✓	✓	16	1	60	150	20	KFB 16	M5x0,5x10	T20	

KFB 200

Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP KFB 200		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
Q20-1-25-150 KFB	✓	✓	20	1	60	150	25	KFB 20	M5x0,5x13	T20	

KFB 250

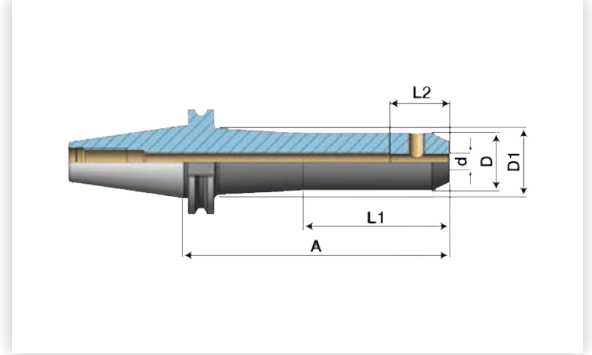
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP KFB 250		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
Q25-1-32-200 KFB	✓	✓	25	1	60	200	32	KFB 25	M6x0,75x17	T20	



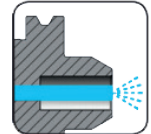
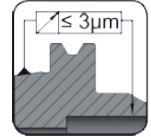
TUTUCU TAKIMLAR / TOOL HOLDERS

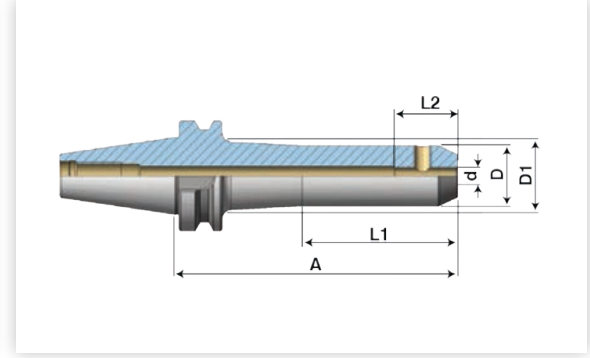


DIN 69871 AD Veldon Tutucu DIN 6359 / Weldon DIN 6359



Malzeme Tanımı Description Of Goods	Stok Stock	Inter Cooland	d	A	D	D1	L1	L2
DIN 69871 AD SK40 6 - 50		✓	6	50	25	-	-	30
DIN 69871 AD SK40 6 - 100		✓	6	100	25	-	-	30
DIN 69871 AD SK40 8 - 50		✓	8	50	28	-	-	40
DIN 69871 AD SK40 8 - 100		✓	8	100	28	-	-	40
DIN 69871 AD SK40 10 - 50		✓	10	50	35	-	-	38
DIN 69871 AD SK40 10 - 100		✓	10	100	35	-	-	38
DIN 69871 AD SK40 12 - 50		✓	12	50	42	-	-	51
DIN 69871 AD SK40 12 - 100		✓	12	100	42	-	-	51
DIN 69871 AD SK40 14 - 50		✓	14	50	44	-	-	51
DIN 69871 AD SK40 14 - 100		✓	14	100	44	-	-	51
DIN 69871 AD SK40 16 - 63		✓	16	63	48	-	-	54
DIN 69871 AD SK40 16 - 100		✓	16	100	48	-	-	54
DIN 69871 AD SK40 18 - 63		✓	18	63	50	-	-	54
DIN 69871 AD SK40 18 - 100		✓	18	100	50	-	-	54
DIN 69871 AD SK40 20 - 63		✓	20	63	52	-	-	56
DIN 69871 AD SK40 20 - 100		✓	20	100	52	-	-	56
DIN 69871 AD SK40 25 - 100		✓	25	100	63	-	-	64
DIN 69871 AD SK40 32 - 100		✓	32	100	72	-	-	68
DIN 69871 AD SK40 40 - 120		✓	40	120	80	-	-	78
DIN 69871 AD SK50 6 - 63		✓	6	63	25	-	-	30
DIN 69871 AD SK50 8 - 63		✓	8	63	28	-	-	40
DIN 69871 AD SK50 10 - 63		✓	10	63	35	-	-	38
DIN 69871 AD SK50 12 - 63		✓	12	63	42	-	-	51
DIN 69871 AD SK50 14 - 63		✓	14	63	44	-	-	51
DIN 69871 AD SK50 16 - 63		✓	16	63	48	-	-	54
DIN 69871 AD SK50 18 - 63		✓	18	63	50	-	-	54
DIN 69871 AD SK50 20 - 63		✓	20	63	52	-	-	56
DIN 69871 AD SK50 25 - 80		✓	25	80	63	-	-	64
DIN 69871 AD SK50 32 - 100		✓	32	100	72	-	-	68
DIN 69871 AD SK50 40 - 100		✓	40	100	80	-	-	78

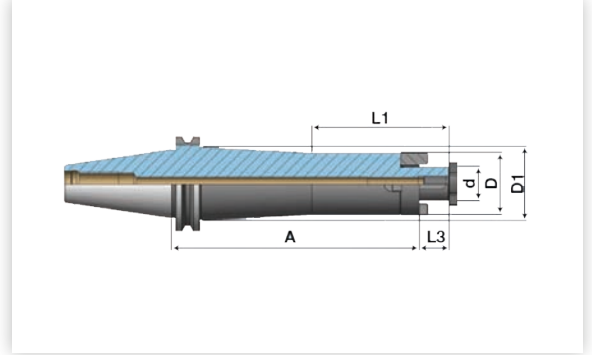
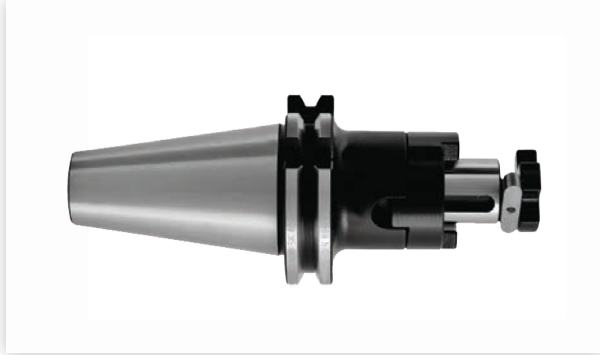




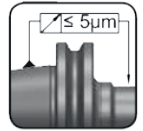
Malzeme Tanımı Description Of Goods	Stok Stock	Inter Cooland	d	A	D	D1	L1	L2
MAS 403 BT AD BT40 6 - 50		✓	6	50	25	-	-	30
MAS 403 BT AD BT40 6 - 100		✓	6	100	25	-	-	30
MAS 403 BT AD BT40 8 - 50		✓	8	50	28	-	-	40
MAS 403 BT AD BT40 8 - 100		✓	8	100	28	-	-	40
MAS 403 BT AD BT40 10 - 63		✓	10	63	35	-	-	38
MAS 403 BT AD BT40 10 - 100		✓	10	100	35	-	-	38
MAS 403 BT AD BT40 12 - 63		✓	12	63	42	-	-	51
MAS 403 BT AD BT40 12 - 100		✓	12	100	42	-	-	51
MAS 403 BT AD BT40 14 - 63		✓	14	63	44	-	-	51
MAS 403 BT AD BT40 14 - 100		✓	14	100	44	-	-	51
MAS 403 BT AD BT40 16 - 63		✓	16	63	48	-	-	54
MAS 403 BT AD BT40 16 - 100		✓	16	100	48	-	-	54
MAS 403 BT AD BT40 18 - 63		✓	18	63	50	-	-	54
MAS 403 BT AD BT40 18 - 100		✓	18	100	50	-	-	54
MAS 403 BT AD BT40 20 - 63		✓	20	63	52	-	-	56
MAS 403 BT AD BT40 20 - 100		✓	20	100	52	-	-	56
MAS 403 BT AD BT40 25 - 90		✓	25	90	63	-	-	64
MAS 403 BT AD BT40 32 - 100		✓	32	100	72	-	-	68
MAS 403 BT AD BT40 40 - 120		✓	40	120	80	-	-	78
MAS 403 BT AD BT50 6 - 63		✓	6	63	25	-	-	30
MAS 403 BT AD BT50 8 - 63		✓	8	63	28	-	-	40
MAS 403 BT AD BT50 10 - 63		✓	10	63	35	-	-	38
MAS 403 BT AD BT50 12 - 63		✓	12	63	42	-	-	51
MAS 403 BT AD BT50 14 - 63		✓	14	63	44	-	-	51
MAS 403 BT AD BT50 16 - 63		✓	16	63	48	-	-	54
MAS 403 BT AD BT50 18 - 80		✓	18	80	50	-	-	54
MAS 403 BT AD BT50 20 - 80		✓	20	80	52	-	-	56
MAS 403 BT AD BT50 25 - 100		✓	25	100	63	-	-	64
MAS 403 BT AD BT50 32 - 105		✓	32	105	72	-	-	68
MAS 403 BT AD BT50 40 - 110		✓	40	110	80	-	-	78



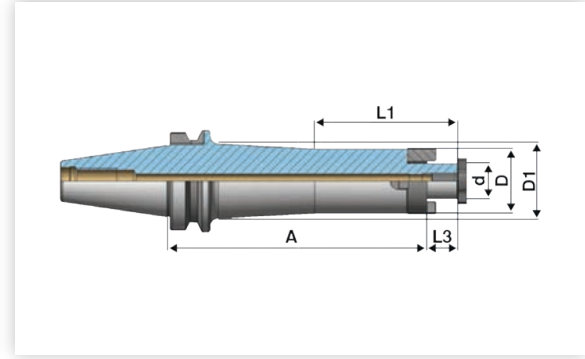
DIN 69871 AD Kombi Malafa DIN 6358 / Combi Shell Mill Holder DIN 6358



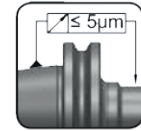
Malzeme Tanımı Description Of Goods	Stok Stock	Inter Cooland	d	A	D	D1	L1	L2
DIN 69871 AD SK40 16 - 55			16	55	32	-	-	17
DIN 69871 AD SK40 16 - 100			16	100	32	-	-	17
DIN 69871 AD SK40 22 - 55			22	55	40	-	-	19
DIN 69871 AD SK40 22 - 100			22	100	40	-	-	19
DIN 69871 AD SK40 27 - 55			27	55	48	-	-	21
DIN 69871 AD SK40 27 - 100			27	100	48	-	-	21
DIN 69871 AD SK40 32 - 55			32	55	58	-	-	24
DIN 69871 AD SK40 32 - 100			32	100	58	-	-	24
DIN 69871 AD SK40 40 - 60			40	60	70	-	-	27
DIN 69871 AD SK50 16 - 55			16	55	32	-	-	17
DIN 69871 AD SK50 16 - 100			16	100	32	-	-	17
DIN 69871 AD SK50 22 - 55			22	55	40	-	-	19
DIN 69871 AD SK50 22 - 100			22	100	40	-	-	19
DIN 69871 AD SK50 27 - 55			27	55	48	-	-	21
DIN 69871 AD SK50 27 - 100			27	100	48	-	-	21
DIN 69871 AD SK50 32 - 55			32	55	58	-	-	24
DIN 69871 AD SK50 32 - 100			32	100	58	-	-	24
DIN 69871 AD SK50 40 - 55			40	55	70	-	-	27

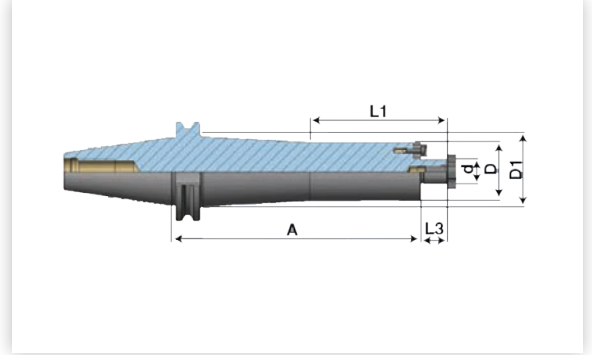


MAS 403 BT AD Kombine Malafa DIN 6358 / Combi Shell Mill Holder DIN 6358

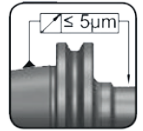


Malzeme Tanımı Description Of Goods	Stok Stock	Inter Cooland	d	A	D	D1	L1	L2
MAS 403 BT AD BT40 16 - 55			16	55	32	-	-	17
MAS 403 BT AD BT40 16 - 100			16	100	32	-	-	17
MAS 403 BT AD BT40 22 - 55			22	55	40	-	-	19
MAS 403 BT AD BT40 22 - 100			22	100	40	-	-	19
MAS 403 BT AD BT40 27 - 55			27	55	48	-	-	21
MAS 403 BT AD BT40 27 - 100			27	100	48	-	-	21
MAS 403 BT AD BT40 32 - 55			32	55	58	-	-	24
MAS 403 BT AD BT0 32 - 100			32	100	58	-	-	24
MAS 403 BT AD BT40 40 - 60			40	60	70	-	-	27
MAS 403 BT AD BT50 16 - 55			16	55	32	-	-	17
MAS 403 BT AD BT50 16 - 100			16	100	32	-	-	17
MAS 403 BT AD BT50 22 - 55			22	55	40	-	-	19
MAS 403 BT AD BT50 22 - 100			22	100	40	-	-	19
MAS 403 BT AD BT50 27 - 55			27	55	48	-	-	21
MAS 403 BT AD BT50 27 - 100			27	100	48	-	-	21
MAS 403 BT AD BT50 32 - 60			32	60	58	-	-	24
MAS 403 BT AD BT50 32 - 100			32	100	58	-	-	24
MAS 403 BT AD BT50 40 - 60			40	60	70	-	-	27

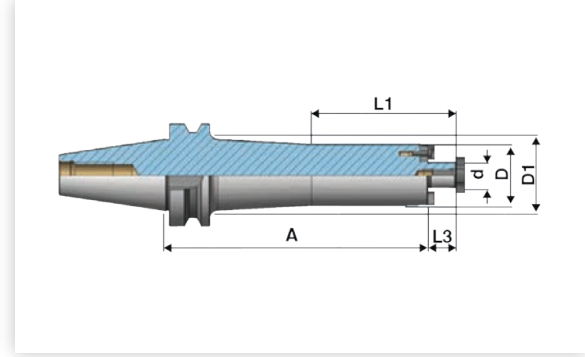




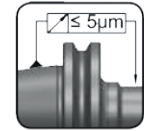
Malzeme Tanımı Description Of Goods	Stok Stock	Inter Cooland	d	A	D	D1	L1	L3
DIN 69871 AD SK40 16 - 35			16	35	38	-	-	17
DIN 69871 AD SK40 16 - 100			16	100	38	-	-	17
DIN 69871 AD SK40 22 - 35			22	35	48	-	-	19
DIN 69871 AD SK40 22 - 100			22	100	48	-	-	19
DIN 69871 AD SK40 27 - 40			27	40	58	-	-	21
DIN 69871 AD SK40 27 - 100			27	100	58	-	-	21
DIN 69871 AD SK40 32 - 50			32	50	78	-	-	24
DIN 69871 AD SK40 32 - 100			32	100	78	-	-	24
DIN 69871 AD SK40 40 - 50			40	50	88	-	-	27
DIN 69871 AD SK50 16 - 35			16	35	38	-	-	17
DIN 69871 AD SK50 16 - 100			16	100	38	-	-	17
DIN 69871 AD SK50 22 - 35			22	35	48	-	-	19
DIN 69871 AD SK50 22 - 100			22	100	48	-	-	19
DIN 69871 AD SK50 27 - 40			27	40	58	-	-	21
DIN 69871 AD SK50 27 - 100			27	100	58	-	-	21
DIN 69871 AD SK50 32 - 50			32	50	78	-	-	24
DIN 69871 AD SK50 32 - 100			32	100	78	-	-	24
DIN 69871 AD SK50 40 - 50			40	50	88	-	-	27

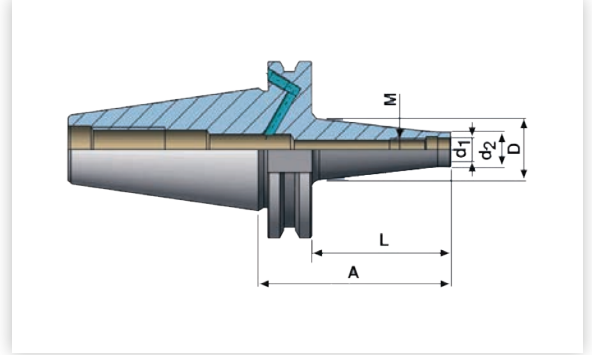


MAS 403 BT AD Alın Kamalı Malafa DIN 6357 / Shell Mill Holder DIN 6357

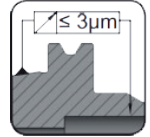


Malzeme Tanımı Description Of Goods	Stok Stock	Inter Cooland	d	A	D	D1	L1	L3
MAS 403 BT AD BT40 16 - 35			16	35	38	-	-	17
MAS 403 BT AD BT40 16 - 100			16	100	38	-	-	17
MAS 403 BT AD BT40 22 - 35			22	35	48	-	-	19
MAS 403 BT AD BT40 22 - 100			22	100	48	-	-	19
MAS 403 BT AD BT40 27 - 40			27	40	58	-	-	21
MAS 403 BT AD BT40 27 - 100			27	100	58	-	-	21
MAS 403 BT AD BT40 32 - 50			32	50	78	-	-	24
MAS 403 BT AD BT40 32 - 100			32	100	78	-	-	24
MAS 403 BT AD BT40 40 - 50			40	50	88	-	-	27
MAS 403 BT AD BT50 16 - 35			16	35	38	-	-	17
MAS 403 BT AD BT50 16 - 100			16	100	38	-	-	17
MAS 403 BT AD BT50 22 - 35			22	35	48	-	-	19
MAS 403 BT AD BT50 22 - 100			22	100	48	-	-	19
MAS 403 BT AD BT50 27 - 40			27	40	58	-	-	21
MAS 403 BT AD BT50 27 - 100			27	100	58	-	-	21
MAS 403 BT AD BT50 32 - 50			32	50	78	-	-	24
MAS 403 BT AD BT50 32 - 100			32	100	78	-	-	24
MAS 403 BT AD BT50 40 - 50			40	50	88	-	-	27

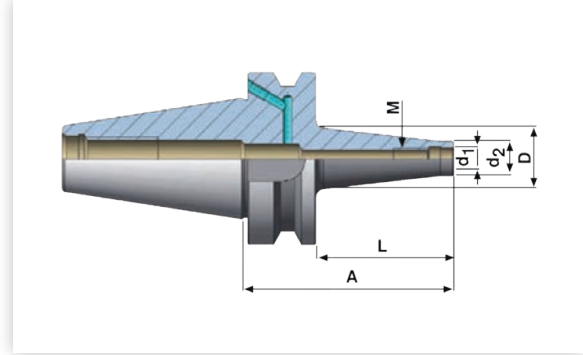




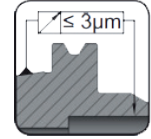
Malzeme Tanımı Description Of Goods	Stok Stock	Inter Cooland	M	d1	d2	A	D	L
DIN 69871 AD SK40 M6 - L25		√	6	6,5	10	44	13	25
DIN 69871 AD SK40 M6 - L50		√	6	6,5	10	69	20	50
DIN 69871 AD SK40 M6 - L75		√	6	6,5	10	94	23	75
DIN 69871 AD SK40 M8 - L25		√	8	8,5	13	44	15	25
DIN 69871 AD SK40 M8 - L50		√	8	8,5	13	69	23	50
DIN 69871 AD SK40 M8 - L75		√	8	8,5	13	94	23	75
DIN 69871 AD SK40 M8 - L100		√	8	8,5	13	119	25	100
DIN 69871 AD SK40 M10 - L25		√	10	10,5	18	44	20	25
DIN 69871 AD SK40 M10 - L50		√	10	10,5	18	69	23	50
DIN 69871 AD SK40 M10 - L75		√	10	10,5	18	94	28	75
DIN 69871 AD SK40 M10 - L100		√	10	10,5	18	119	32	100
DIN 69871 AD SK40 M10 - L150		√	10	10,5	18	169	36,5	150
DIN 69871 AD SK40 M12 - L25		√	12	12,5	21	44	24	25
DIN 69871 AD SK40 M12 - L50		√	12	12,5	21	69	24	50
DIN 69871 AD SK40 M12 - L75		√	12	12,5	21	94	31	75
DIN 69871 AD SK40 M12 - L100		√	12	12,5	21	119	33	100
DIN 69871 AD SK40 M12 - L150		√	12	12,5	21	169	40	150
DIN 69871 AD SK40 M16 - L25		√	16	17	29	44	29	25
DIN 69871 AD SK40 M16 - L50		√	16	17	29	69	34	50
DIN 69871 AD SK40 M16 - L75		√	16	17	29	94	34	75
DIN 69871 AD SK40 M16 - L100		√	16	17	29	119	36	100
DIN 69871 AD SK40 M16 - L150		√	16	17	29	169	42,5	150
DIN 69871 AD SK50 M8 - L50		√	8	8,5	13	69	23	50
DIN 69871 AD SK50 M8 - L100		√	8	8,5	13	119	25	100
DIN 69871 AD SK50 M8 - L150		√	8	8,5	13	169	30	150
DIN 69871 AD SK50 M10 - L50		√	10	10,5	18	69	23	50
DIN 69871 AD SK50 M10 - L100		√	10	10,5	18	119	32	100
DIN 69871 AD SK50 M10 - L150		√	10	10,5	18	169	36,5	150
DIN 69871 AD SK50 M12 - L50		√	12	12,5	21	69	24	50
DIN 69871 AD SK50 M12 - L100		√	12	12,5	21	119	33	100
DIN 69871 AD SK50 M12 - L150		√	12	12,5	21	169	40	150
DIN 69871 AD SK50 M16 - L50		√	16	17	29	69	34	50
DIN 69871 AD SK50 M16 - L100		√	16	17	29	119	36	100
DIN 69871 AD SK50 M16 - L150		√	16	17	29	169	42,5	150



MAS 403 BT AD Vidalı Tutucu DIN 7388 / Milling Cutter Arbor DIN 7388



Malzeme Tanımı Description Of Goods	Stok Stock	Inter Cooland	M	d1	d2	A	D	L
DIN 69871 AD SK40 M6 - L25		√	6	6,5	10	52	13	25
DIN 69871 AD SK40 M6 - L50		√	6	6,5	10	77	20	50
DIN 69871 AD SK40 M6 - L75		√	6	6,5	10	102	23	75
DIN 69871 AD SK40 M8 - L25		√	8	8,5	13	52	15	25
DIN 69871 AD SK40 M8 - L50		√	8	8,5	13	77	23	50
DIN 69871 AD SK40 M8 - L75		√	8	8,5	13	102	23	75
DIN 69871 AD SK40 M8 - L100		√	8	8,5	13	127	25	100
DIN 69871 AD SK40 M10 - L25		√	10	10,5	18	52	20	25
DIN 69871 AD SK40 M10 - L50		√	10	10,5	18	77	23	50
DIN 69871 AD SK40 M10 - L75		√	10	10,5	18	102	28	75
DIN 69871 AD SK40 M10 - L100		√	10	10,5	18	127	32	100
DIN 69871 AD SK40 M10 - L150		√	10	10,5	18	177	36,5	150
DIN 69871 AD SK40 M12 - L25		√	12	12,5	21	52	24	25
DIN 69871 AD SK40 M12 - L50		√	12	12,5	21	77	24	50
DIN 69871 AD SK40 M12 - L75		√	12	12,5	21	102	31	75
DIN 69871 AD SK40 M12 - L100		√	12	12,5	21	127	33	100
DIN 69871 AD SK40 M12 - L150		√	12	12,5	21	177	40	150
DIN 69871 AD SK40 M16 - L25		√	16	17	29	52	29	25
DIN 69871 AD SK40 M16 - L50		√	16	17	29	77	34	50
DIN 69871 AD SK40 M16 - L75		√	16	17	29	102	34	75
DIN 69871 AD SK40 M16 - L100		√	16	17	29	127	36	100
DIN 69871 AD SK40 M16 - L150		√	16	17	29	177	42,5	150
DIN 69871 AD SK50 M8 - L50		√	8	8,5	13	88	23	50
DIN 69871 AD SK50 M8 - L100		√	8	8,5	13	138	25	100
DIN 69871 AD SK50 M8 - L150		√	8	8,5	13	188	30	150
DIN 69871 AD SK50 M10 - L50		√	10	10,5	18	88	23	50
DIN 69871 AD SK50 M10 - L100		√	10	10,5	18	138	32	100
DIN 69871 AD SK50 M10 - L150		√	10	10,5	18	188	36,5	150
DIN 69871 AD SK50 M12 - L50		√	12	12,5	21	88	24	50
DIN 69871 AD SK50 M12 - L100		√	12	12,5	21	138	33	100
DIN 69871 AD SK50 M12 - L150		√	12	12,5	21	188	40	150
DIN 69871 AD SK50 M16 - L50		√	16	17	29	88	34	50
DIN 69871 AD SK50 M16 - L100		√	16	17	29	138	36	100
DIN 69871 AD SK50 M16 - L150		√	16	17	29	188	42,5	150



TORNALAMA İÇİN FORMÜLLER / FORMULAS FOR TURNING OPERATIONS

$$\text{DEVİR SAYISI} \\ \text{REVOLUTIONS} = n = \frac{Vc \times 1000}{\pi \times D} \quad \text{devir / dakika} \\ \text{Revs / min.}$$

n: Devir Sayısı (dev. / dk)
Revolutions (Revs / min.)

Vc: Kesme Hızı (m / dk)
Cutting Speed (Meter / min.)

$$\text{KESME HIZI} \\ \text{CUTTING SPEED} = Vc = \frac{\pi \times D \times n}{1000} \quad \text{devir / dakika} \\ \text{Revs / min.}$$

D: İş Parçasının Çapı (mm)
Workpiece Diameter (mm)

π : Sabit Sayı (3,14)
Constant (3,14)

TORNALAMA DA İŞLEME ZAMANININ HESAPLANMASI / FORMULAS FOR TURNING TIME

$$\text{ÇAP TORNALAMADA} \\ \text{TURNING DIAMETER} = th = \frac{L \times Ps}{n \times f} \quad \text{metre / dakika} \\ \text{meter / minute}$$

Ps: Paso Sayısı (kaç defa'da)
No Of Passes

th: İşleme Zamanı (dakika)
Processing Time (min)

f: İlerleme (mm)
feedrate (mm)

$$\text{ALIN TORNALAMADA} \\ \text{LENGHT TURNING} = th = \frac{dx \pi \times L \times Ps}{Vc \times 1000 \times f} \quad \text{dakika} \\ \text{minute}$$

L: Parça Boyu (mm)
Part Lenght (mm)

Alın Tornalama İçin Boy
Face Turning Length

$$L = \frac{d1 - d2}{2} \quad \text{mm}$$

Dolu Malzemede Alın
Tornalama
Face Turning Length

$$L = \frac{d}{2} \quad \text{mm}$$

FORMÜLLER / FORMULAS

YÜZEY FREZELERDE KULLANILAN FORMÜLLER / FORMULAS FOR MILLING OPERATIONS

$$\text{DEVİR SAYISI} \\ \text{REVOLUTIONS} = n = \frac{V_c \times 1000}{\pi \times D} \quad \text{devir / dakika} \\ \text{Revs / min.}$$

z: Frezinin Ağız Sayısı (adet)
Number of teeth

k: Disk Frezinin Etketif Ağız Sayısı (adet)
Effective Edge Of The Cutter

$$\text{KESME HIZI} \\ \text{CUTTING SPEED} = V_c = \frac{\pi \times D \times n}{1000} \quad \text{metre / dakika} \\ \text{meter / min.}$$

fz: Ağız Başına İlerleme (mm/ağız)
Feedrate Per Cutting (mm / Z)

th: İşleme Zamanı (dak.)
Process Time

$$\text{TABLA İLERLEMESİ} \\ \text{FEEDRATE} = V_f = n \times z \times f_z \quad \text{mm / dakika} \\ \text{mm / min.}$$

Ps: Paso Sayısı
Number Of Passes

D: Takım Çapı
Tool Diameter

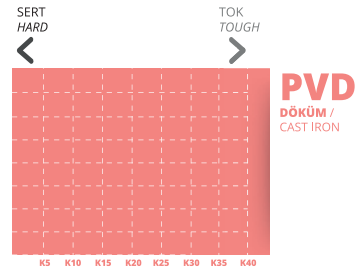
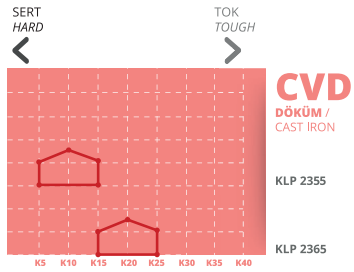
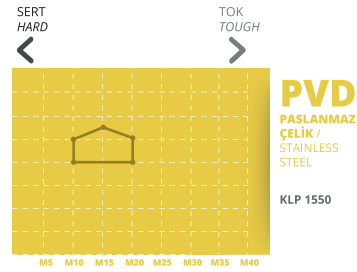
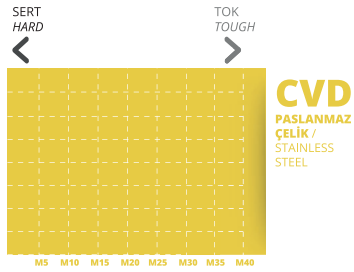
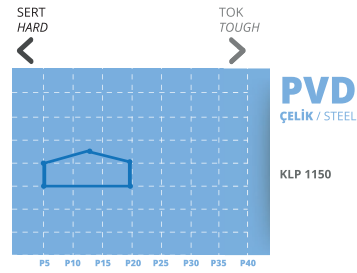
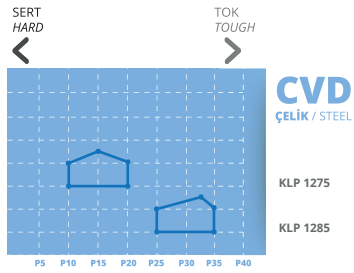
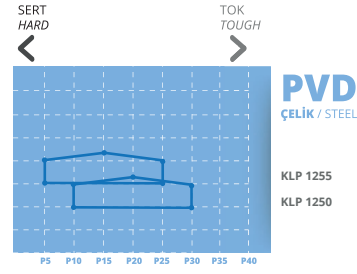
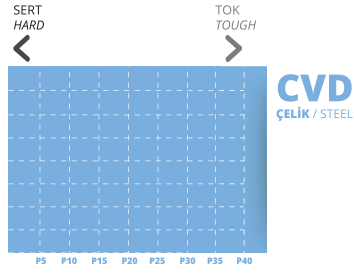
Vc: Sabit Değer
Fixed Value

ÇAPLAR VE KESME HIZINA GÖRE ÇAP/DEVİR TABLOSU
DIAMETER ROTATION SPEED TABLE BY CUTTING SPEED

VC HIZI m/dk.	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
50	1137	995	885	796	724	663	612	569	531	498	468	442	419	398	379	362	346	332	318
60	1365	1194	1062	955	869	769	735	682	637	597	562	531	503	478	455	434	415	398	382
70	1592	1393	1238	1115	1013	929	857	796	743	697	656	619	587	557	531	507	485	464	446
80	1820	1592	1415	1274	1158	1062	980	910	849	796	749	708	670	637	607	579	554	531	510
90	2047	1791	1592	1592	1303	1194	1102	1024	955	896	853	796	754	717	682	651	623	597	573
100	2275	1990	1769	1752	1448	1327	1225	1137	1062	995	937	885	838	796	758	724	692	663	637
110	2502	2189	1946	1910	1592	1460	1347	1251	1168	1095	1030	973	922	876	834	796	762	730	700
120	2730	2389	2123	2070	1737	1592	1470	1365	1274	1194	1124	1062	1006	955	910	869	831	796	764
130	2957	2588	2300	2229	1882	1725	1592	1479	1380	1294	1218	1150	1090	1035	986	941	900	863	828
140	3185	2787	2477	2389	2027	1858	1715	1592	1486	1393	1311	1238	1173	1115	1062	1013	969	929	892
150	3412	2986	2654	2548	2171	1990	1837	1706	1592	1493	1405	1327	1257	1194	1137	1086	1038	995	955
160	3640	3185	2831	2707	2316	2143	1960	1820	1699	1592	1499	1415	1341	1274	1213	1158	1108	1062	1019
170	3867	3384	3008	2866	2461	2256	2082	1934	1805	1692	1592	1504	1425	1354	1289	1230	1177	1128	1083
180	4095	3583	3185	3025	2606	2389	2205	2047	1911	1791	1686	1592	1509	1433	1365	1303	1246	1194	1146
190	4322	3782	3362	3185	2750	2521	2327	2161	2017	1891	1780	1681	1592	1513	1441	1375	1315	1261	1210
200	4550	3981	3539	3344	2895	2654	2450	2275	2123	1990	1873	1769	1676	1592	1517	1448	1385	1327	1274
210	4777	4180	3715	3503	3040	2787	2572	2389	2229	2090	1967	1858	1760	1672	1592	1520	1454	1393	1138
220	5005	4379	3892	3662	3185	2919	2695	2502	2335	2189	2061	1946	1844	1752	1668	1592	1523	1460	1401
230	5232	4578	4069	3822	3329	3052	2817	2616	2442	2289	2154	2035	1928	1831	1744	1665	1592	1526	1465
240	5460	4777	4246	3981	3474	3185	2940	2730	2548	2389	2248	2123	2011	1911	1820	1737	1662	1592	1529
250	5687	4976	4423		3619	3317	3062	2843	2654	2488	2342	2212	2095	1990	1896	1809	1731	1659	1592

KALİTE TABLOSU / GRADE CHART

FREZE / MILLING



TORNA / TURNING

KALİTE KARŞILAŞTIRMA TABLOSU
GRADE COMPARISON CHART

TORNA - TURNING

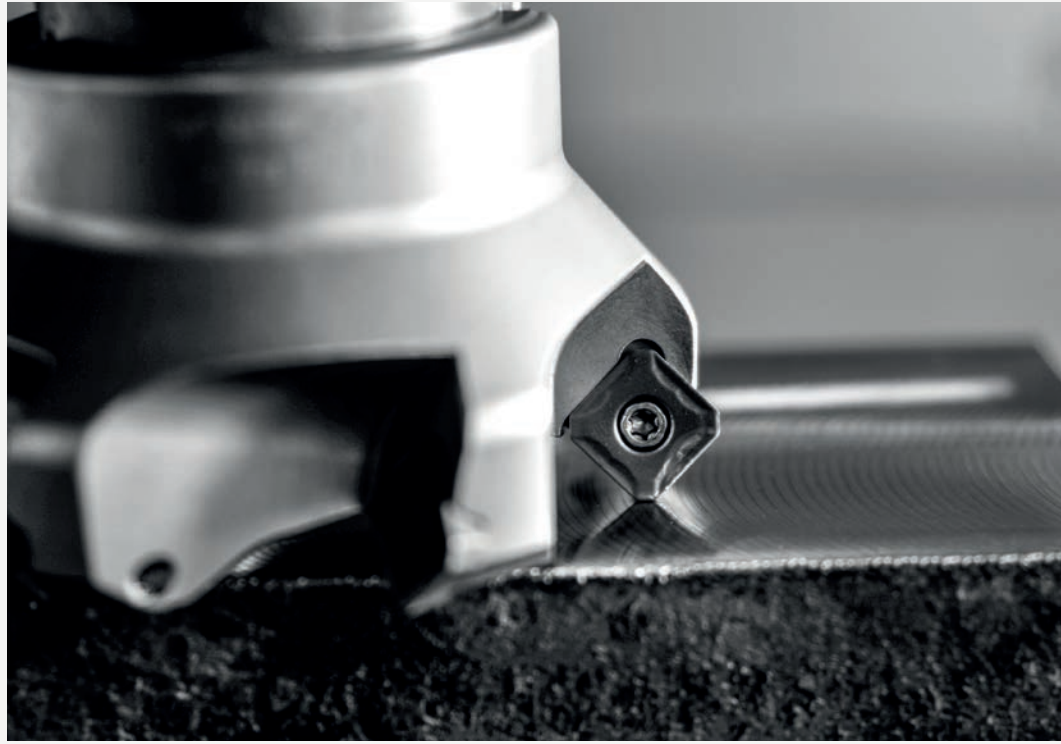
UYGULAMA APPLICATION	SINIF - CLASS	KALİTE - GRADE	KLP	SUMITOMO ELECTRIC	MITSUBISHI	TUNGALOY	KYOCERA	HITACHI	SANDVIK	KENNAMETAL	DIJET	VALENTINE	SECO TOOLS JAPAN	WALTER	ISCAR
P çelik, steel	P05	KLP 1150	AC810P	UE610S	T910S	CA550S	HG8010	GC420S	KCP05 KC910S	JC110V	VP5515 VP1510	TP0500	WPP05	IC8005 IC428	
	P10	KLP 1150	AC810P AC820P	UE6110	T911S	CA551S	HG8010	GC421S	KCP10 KC9110	JC110V JC215V	SV310 SV315 SV51S	TP1500	WPP10S WPP10	IC8150 IC9015	
	P20	KLP 2170	AC820P	MC602S UE6020	T912S	CA552S	IP2000 HG802S GM2S	GC422S	KCP2S KC912S	JC215V	SV31S SV32S VP552S	TP2500	WPP20S WPP20	IC8250 IC9015	
	P30	KLP 2180	AC830P AC630M	UE603S VP15TF	T913S	CA553S	IP3000 HG803S	GC423S	KCP30 KC9140	JC215V JC325V	VP553S SV32S SV230	TP3500	WPP30S WPP30	IC8350 IC802S	
	P40	KLP 2190	AC830P AC630M	UE603S UH6400	T913S	PR660	IP3000 HG803S	GC423S	KC9140	JC325V JC450V	SV23S V1N VP553S	TP3500	WTN53	IC8350 IC802S	
M paslanmaz çelik stainless steel	M10	KLP 1550	AC610M AC510M	US90S VP05RT VP10RT US7020	T911S AH110 AH90S	PR130S CA651S PR90S	IP050S IP100S	GC201S GC110S GC111S	KCM15 KC5510 KCU10	JC605X JC5003 JC110V	SV310 SV31S VC929	TP1500 TS2000	WSM10	IC807 IC802S IC907	
	M30	KLP 1580	AC630M AC830P AC530U	US73S VP15TF VP20MF	AH72S T6030 AH630	PR132S CA652S PR660 PR112S	GM803S GX30	GC203S	KCM3S KC9240	JC501S JC801S JC525X	VC901 V1N	TP3500 TM4000	WSM30	IC8080 IC830	
K döküm cast iron	K10	KLP 2350	AC415K	UC510S UC511S	T511S T512S	CA450S CA451S CA411S	HX330S HG330S HG331S HX331S	GC3210	KCK15	JC105V	SV410 SV51S	TK1000 TK1001	WAK10 WAK20	IC5010 IC5100	
	K20	KLP 2360	AC420K	UC511S VP15TF UE6110	T512S T912S	CA451S CA4120 CA411S	HX331S HG331S HG8010	GC321S	KCK20	JC215V	SV41S SV51S	TK2000 TK2001	WAK20 WAK30	IC8150	

UYGULAMA APPLICATION	SINIF - CLASS	KALİTE - GRADE	KLP	SUMITOMO ELECTRIC	MITSUBISHI	TUNGALOY	KYOCERA	HITACHI	SANDVIK	KENNAMETAL	DJET	VALENTINE	SECO TOOLS JAPAN	WALTER	ISCAR
FREZE - MILLING	P çelik, steel	KLP 1250	ACP100	FH7020 F7030	T3130 T3030			HX3315 HG3315 HG8010	GC4220 GC4230 GC4240	KC930M KC935M	JC730U	V1N	T250M T350M MP1500 MP2500 MP3000	WKP25 WKP35 WAP35 WKP35S	IC4100 IC4050 IC520M
		KLP 1280	ACP200 ACP300	VP15TF VP20RT VP30RT	AH120 AH725 AH130 AH140	PR1230 PR1225 PR830 PR760 PR660 PR630	JP4005 GX2140 JP4020 CY150 CY250 JX1045 JX1060		GC1010 GC1025 GC1030	KC530M KC610M KC715M KC725M KC735M KC792M	JC8015 JC5003 JC5030 JC5015 JC5040	VC935	F25M F30M F40M T60M	WXM15 WSP45 WSM35 WXP45	IC808 IC908 IC910 IC928 IC950 IC328
	M paslanmaz çelik stainless steel	KLP 1650	ACP300	VP15TF VP20RT VP30RT	AH120 AH725 AH130 AH140	PR1225 PR830 PR760 PR660 PR630	JP4060 JP4020 CY150 CY250 JX1045 JX1060		GC2040 GC1040 S30T S40T GC1025 GC1030 GC2030 GC2035	KC522M KC635M KC715M KC725M KC520M KC525M	JC8015 JC5003 JC5030 JC5015 JC5040	VC935	F25M F30M F40M	WSM35 WXM35	IC808 IC830 IC908 IC928 IC328
		KLP 2460	ACK200	F5010 F5020 MC5020	T1115	PR905			GC3220 GC3020 GC3040 K15W K20D K20W	KC915M KC930M KC935M	JC600 JC610	VN5	T150M T200M MK1500 MK3000	WAK15 WKK25 WKP35S	IC5100 IC4100 IC520M IC4050 DT7150
	K döküm cast iron	KLP 1450	ACP300	VP15TF VP20RT	AH110 GH110 AH725 AH120	PR1210 PR905	GX2140 JP4020 CY150 CY250 JX1045		GC1020 GC1025 GC1030	KC620M KC510M KC515M KC520M KC525M	JC5080 JC5003 JC5015	VC928	MK2000 MH1000		IC810 IC908 IC910 IC928 IC950

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NOTLAR / NOTES

A series of horizontal dashed lines for writing notes.



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