

SAPPHIRE CUTTING TOOLS





SAPPHIRE
CUTTING TOOLS

► Misyonumuz - Our Mission

Sürdürülebilir kalkınmayı kendimize yol haritası kabul ederek; çevreye duyarlı, en az maliyetle, paydaşlarımızın isteklerini karşılayan bir şirket olmaktır.

To be a company which recognise sustainable development as a road map to us to meet the demands of our clients with environmentally sensitive with minimal cost.

► Vizyonumuz - Our Vision

Toplam kalite felsefesi ile Dünya Sanayisi'ne güvenilir, kaliteli ürün ve hizmet vermektir.

Müşteri istek ve ihtiyaçlarını tam olarak anlamak ve karşılamak, kalite yönetim sistemimizin gelişimini ve etkinliğini sağlayarak iç ve dış pazarda rekabet gücümüzü arttırmak, sürekli gelişmek için tüm çalışanların eğitimini ve katılımını sağlamak, ürün kalitemizi arttırmak ve maliyetlerimizi düşürmek.

Sektörümüzdeki teknolojik gelişmeleri yakından takip etmek ve bu gelişmeleri her alanda uygulamak.

With the philosophy of total quality, serve the World Industrial Estate reliable and high quality products.

Understand exactly what the clients requests and needs, provide the development and effectiveness of our quality management system to increase our competitiveness in domestic and international market to continuous development ensure the training and participation of all employees; improve the products quality and reduce the costs.

Follow the technological developments in our industry and implement these developments in all areas.



SAPPHIRE
CUTTING TOOLS

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TURNING

INSERT DESIGNATION (BASED ON ISO 1832)

W
1
N
2
M
3
G
4

1. Insert Shape

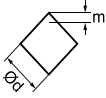
			
A	B	C	D
			
G	H	K	L
			
M	O	P	R
			
S	T	V	W

2. Clearance Angle



Letter Symbol	α
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	Special

3. Tolerance Class

d (mm)	Symbol	D	M	S
m (mm)	A	± 0.025	± 0.005	± 0.025
s (mm)	C	± 0.025	± 0.013	± 0.025
	E	± 0.025	± 0.025	± 0.025
	F	± 0.013	± 0.005	± 0.025
	G	± 0.025	± 0.025	± 0.130
	H	± 0.013	± 0.013	± 0.025
	J*	$\pm 0.05-0.15$	± 0.005	± 0.025
	K*	$\pm 0.05-0.15$	± 0.013	± 0.025
	L*	$\pm 0.05-0.15$	± 0.025	± 0.025
	M*	$\pm 0.05-0.15$	$\pm 0.08-0.20$	± 0.130
	N*	$\pm 0.05-0.15$	$\pm 0.08-0.20$	± 0.025
	U*	$\pm 0.08-0.25$	$\pm 0.13-0.38$	± 0.130

* Depending on the insert size.

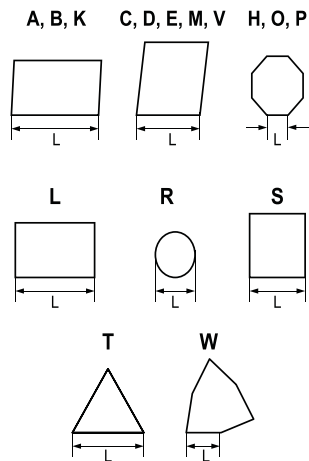
4. Fixing and Chipbreaker Types

Type	Symbol	Type	Symbol
A		N	
B		P	
F		R	
G		T	
H		W	
M		X	

TURNING

08
5
04
6
08
7
8
9
NN
10

5. Cutting Edge Length

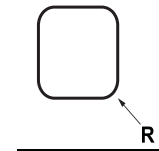


Disregarding any decimals e.g. 12,7 = 12

6. Insert Thickness

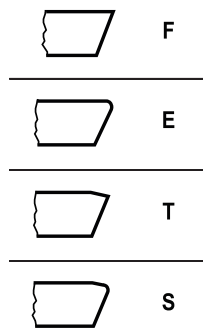
Symbol	mm
01	= 1.59
T1	= 1.98
02	= 2.38
03	= 3.18
T3	= 3.97
04	= 4.76
05	= 5.56
06	= 6.35
07	= 7.94
09	= 9.52

7. Insert Corner Radius



00 = Sharp corner or round insert (inch version)
M0 = Round insert (metric version)
01 = 0.1 mm
02 = 0.2 mm
04 = 0.4 mm
08 = 0.8 mm
12 = 1.2 mm
16 = 1.6 mm
etc

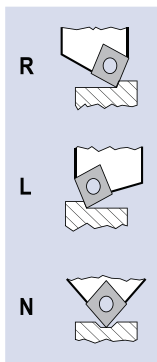
8. Edge Preparation



Optional information

9. Cutting Direction

Turning



Optional information

10. Internal Designation

e.g. Chipbreaker (Turning)

NN = General purpose
 NM = Roughing operations
 NX = General purpose Magia
 PP = All purpose grooving
 NS = Non-ferrous materials
 MP = Steel materials

Optional information

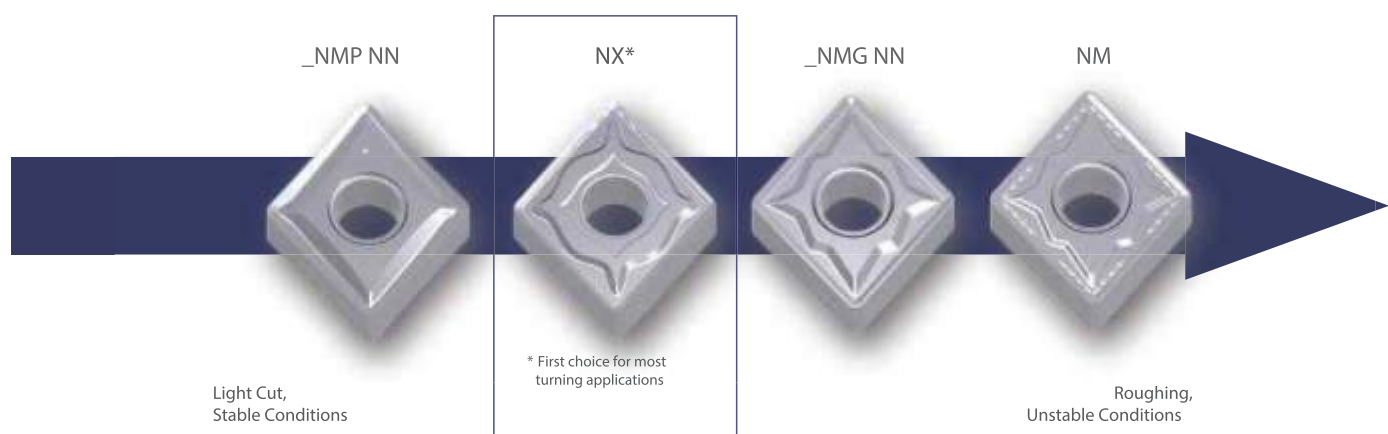
TURNING

TURNING CHIPBREAKER RECOMMENDATIONS

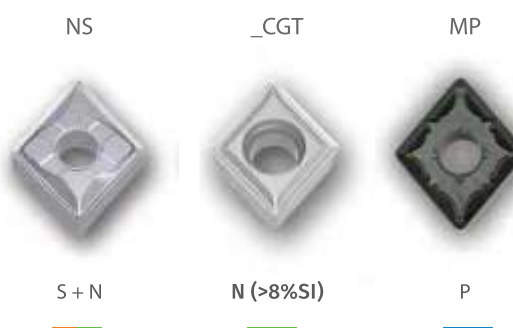
NEGATIVE TURNING CHIPBREAKERS OVERVIEW

	FINISHING	LIGHT CUT, STABLE CONDITIONS	ROUGHING, UNSTABLE CONDITIONS
P	MP	MP	MP
M	_NMP NN	NX	NX
K	NN	NM	NM
S	NS	NX	_NMG NN
H	NN	NM	NM
N (>8%Si)	_NMP NN	NX	_NMG NN
N (<8%Si)	NS		

MULTI-MATTM CHIPBREAKERS



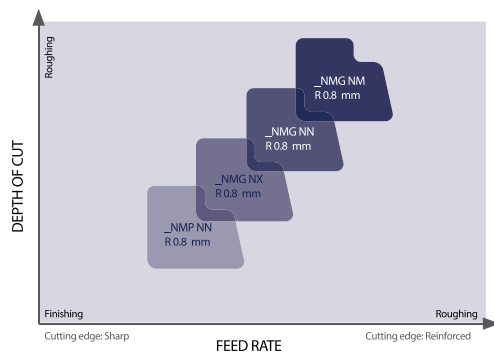
DEDICATED GEOMETRIES



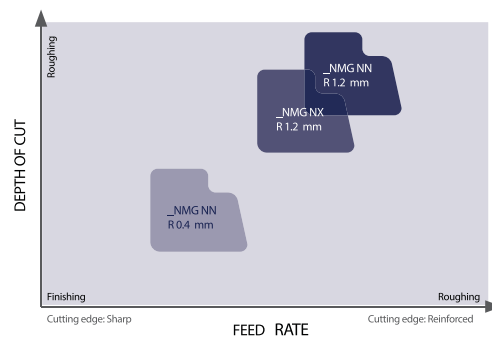
TURNING

TURNING CHIPBREAKER FRAGMENTATION CHARTS

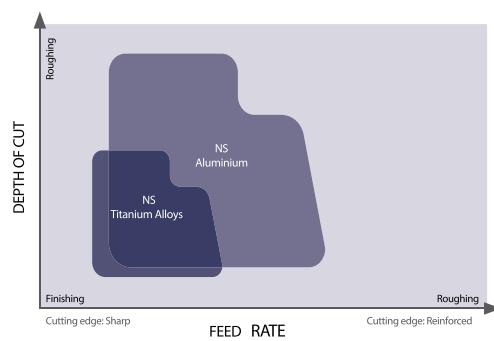
INSERT CORNER RADIUS = 0.8MM



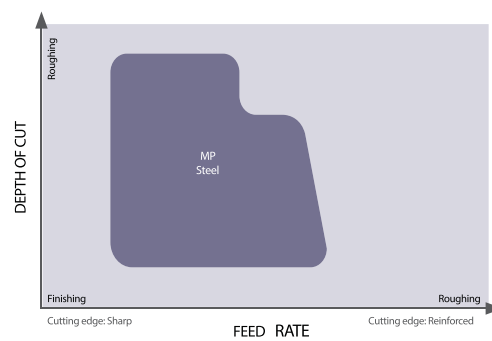
INSERT CORNER RADIUS = 0.4 AND 1.2



NS CHIPBREAKER



MP CHIPBREAKER



TURNING

CCGT



NS Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
CCGT 060204 NS	LT 1110S	●	☒		p. 244		T0004671
CCGT 09T304 NS	LT 1110S	●	☒		p. 244		T0004672

CCMT



NN Shown

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
CCMT 060204 NN	LT 1000	●	☒		p. 223		T0001888
CCMT 09T304 NN	LT 1000	●	☒		p. 220		T0001889
CCMT 09T308 NN	LT 1000	●	☒		p. 221		T0001890
CCMT 120404 NN	LT 1000	●	☒		p. 220		T0001891
CCMT 120408 NN	LT 1000	●	☒		p. 238		T0001892
CCMT 120412 NN	LT 1000	●	☒		p. 222		T0001893

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
CCMT 060204 NN	LT 10	●	☒		p. 223		T0000055
CCMT 09T304 NN	LT 10	●	☒		p. 220		T0000056
CCMT 09T308 NN	LT 10	●	☒		p. 221		T0000117
CCMT 120404 NN	LT 10	●	☒		p. 220		T0001456
CCMT 120408 NN	LT 10	●	☒		p. 238		T0001457
CCMT 120412 NN	LT 10	●	☒		p. 222		T0001776

 STABLE CONDITIONS
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED

 INTERRUPTED CUT
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED

V_c

 COOLANT

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CHIPBREAKER

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TECHNICAL SECTION

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TURNING

C N G G



NS Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
CNGG 09T304 NS	LT 1110S	●	☒		p. 244		T0004581
CNGG 120404 NS	LT 1110S	●	☒		p. 244		T0004579
CNGG 120408 NS	LT 1110S	●	☒		p. 244		T0004580

C N M G



MP Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
CNMG 120404 MP	LT 1125P	●	☒		p. 249		T0004963
CNMG 120408 MP	LT 1125P	●	●		p. 249		T0004964
CNMG 120412 MP	LT 1125P	●	●		p. 250		T0004965
CNMG 160616 MP	LT 1125P	●	●		p. 250		T0005030
CNMG 120408 NX	LT 1120M	●	●		p. 247		T0004711
CNMG 120412 NX	LT 1120M	●	●		p. 247		T0004855
CNMG 120404 NN	LT 1110S	●	☒		p. 248		T0004714
CNMG 120408 NX	LT 1110S	●	☒		p. 247		T0004694
CNMG 120412 NX	LT 1110S	●	☒		p. 247		T0004858

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
CNMG 120404 NN	LT 1000	●	☒		p. 220		T0001895
CNMG 120408 NX	LT 1000	●	☒		p. 224		T0002741
CNMG 120408 NN	LT 1000	●	☒		p. 225		T0001896
CNMG 120408 NM	LT 1000	●	☒		p. 228		T0001968
CNMG 120412 NN	LT 1000	●	☒		p. 226		T0001897
CNMG 120412 NX	LT 1000	●	☒		p. 227		T0004859

MATERIAL GROUP

STEEL	HIGH TEMP ALLOYS
STAINLESS STEEL	HARDENED MATERIAL
CAST IRON	ALU(>8%Si)

ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	CCMT 060204 NN LT 1000
CATALOG NUMBER	T0001888

TURNING

C N M G

NM Shown



ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
CNMG 120404 NN	LT 10	●	☒		p. 220		T0000491
CNMG 120408 NN	LT 10	●	☒		p. 225		T0000059
CNMG 120408 NM	LT 10	●	☒		p. 228		T0001966
CNMG 120412 NN	LT 10	●	☒		p. 226		T0000061

C N M M

NR Shown



MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
CNMM 120412 NR	LT 1000	●	☒		p. 237		T0001899

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
CNMM 120408 NR	LT 10	●	☒		p. 236		T0000669
CNMM 120412 NR	LT 10	●	☒		p. 237		T0000671



STABLE CONDITIONS
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED



INTERRUPTED CUT
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED



V_c



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TURNING

C N M P



NN Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
CNMP 120408 NN	LT 1120M	●	☒		p. 248		T0004732
CNMP 120412 NN	LT 1120M	●	☒		p. 248		T0004734

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
CNMP 120408 NN	LT 1000	●	○		p. 238		T0001900
CNMP 120412 NN	LT 1000	●	○		p. 222		T0001901

C P M T



NN Shown

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
CPMT 060204 NN	LT 1000	●	☒		p. 223		T0003088
CPMT 060208 NN	LT 1000	●	☒		p. 243		T0003144
CPMT 09T304 NN	LT 1000	●	☒		p. 220		T0003145
CPMT 09T308 NN	LT 1000	●	☒		p. 221		T0003146

MATERIAL GROUP

STEEL	HIGH TEMP ALLOYS
STAINLESS STEEL	HARDENED MATERIAL
CAST IRON	ALU(>8%Si)

ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	CCMT 060204 NN LT 1000
CATALOG NUMBER	T0001888

TURNING

DCGT



NS Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
DCGT 11T304 NS	LT 1110S	●	☒		p. 244		T0004674

DCMT



NN Shown

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
DCMT 070204 NN	LT 1000	●	☒		p. 223		T0001902
DCMT 11T304 NN	LT 1000	●	☒		p. 220		T0001903
DCMT 11T308 NN	LT 1000	●	☒		p. 221		T0001904

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
DCMT 070204 NN	LT 10	●	☒		p. 223		T0000064
DCMT 11T304 NN	LT 10	●	☒		p. 220		T0000065
DCMT 11T308 NN	LT 10	●	☒		p. 221		T0000721



STABLE CONDITIONS
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED



INTERRUPTED CUT
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED



V_c
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED

COOLANT

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CHIPBREAKER

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TECHNICAL SECTION

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TURNING

D N G G



NS Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
DNGG 110404 NS	LT 1110S	●	☒		p. 244	■	T0004593
DNGG 110408 NS	LT 1110S	●	☒		p. 244	■	T0004606
DNGG 150604 NS	LT 1110S	●	☒		p. 244	■	T0004561
DNGG 150608 NS	LT 1110S	●	☒		p. 244	■	T0004562

D N M G



NX Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
DNMG 110404 MP	LT 1125P	●	☒		p. 249	■	T0004966
DNMG 110408 MP	LT 1125P	●	●		p. 249	■	T0004967
DNMG 150404 MP	LT 1125P	●	☒		p. 249	■	T0004968
DNMG 150408 MP	LT 1125P	●	●		p. 249	■	T0004969
DNMG 150412 MP	LT 1125P	●	●		p. 250	■	T0004970
DNMG 150604 MP	LT 1125P	●	☒		p. 249	■	T0004971
DNMG 150608 MP	LT 1125P	●	●		p. 249	■	T0004972
DNMG 150612 MP	LT 1125P	●	●		p. 250	■	T0004973
DNMG 110408 NN	LT 1120M	●	●		p. 248	■	T0004735
DNMG 150408 NX	LT 1120M	●	●		p. 247	■	T0004736
DNMG 150412 NN	LT 1120M	●	●		p. 248	■	T0004738
DNMG 150608 NX	LT 1120M	●	●		p. 247	■	T0004739
DNMG 150612 NN	LT 1120M	●	●		p. 248	■	T0004741
DNMG 150404 NN	LT 1110S	●	☒		p. 246	■	T0004725
DNMG 150408 NX	LT 1110S	●	☒		p. 245	■	T0004707
DNMG 150604 NN	LT 1110S	●	☒		p. 246	■	T0004728
DNMG 150608 NX	LT 1110S	●	☒		p. 245	■	T0004709

MATERIAL GROUP

■ STEEL	■ HIGH TEMP ALLOYS
■ STAINLESS STEEL	■ HARDENED MATERIAL
■ CAST IRON	■ ALU(>8%Si)

ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	CCMT 060204 NN LT 1000
CATALOG NUMBER	T0001888

TURNING

D N M G



NX Shown

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
DNMG 110404 NN	LT 1000	●	☒		p. 220		T0001905
DNMG 110408 NN	LT 1000	●	☒		p. 225		T0001906
DNMG 150404 NN	LT 1000	●	☒		p. 220		T0001907
DNMG 150408 NX	LT 1000	●	☒		p. 224		T0003097
DNMG 150408 NN	LT 1000	●	☒		p. 225		T0001908
DNMG 150412 NN	LT 1000	●	☒		p. 226		T0001909
DNMG 150604 NN	LT 1000	●	☒		p. 220		T0001910
DNMG 150608 NX	LT 1000	●	☒		p. 224		T0003220
DNMG 150608 NN	LT 1000	●	☒		p. 225		T0001911
DNMG 150612 NN	LT 1000	●	☒		p. 226		T0001912

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
DNMG 110404 NN	LT 10	●	☒		p. 220		T0000066
DNMG 110408 NN	LT 10	●	☒		p. 225		T0000675
DNMG 150404 NN	LT 10	●	☒		p. 220		T0000476
DNMG 150408 NN	LT 10	●	☒		p. 225		T0000475
DNMG 150412 NN	LT 10	●	☒		p. 226		T0001021
DNMG 150604 NN	LT 10	●	☒		p. 220		T0000583
DNMG 150608 NN	LT 10	●	☒		p. 225		T0000067
DNMG 150612 NN	LT 10	●	☒		p. 226		T0000672



STABLE CONDITIONS

- RECOMMENDED
- ☒ ACCEPTABLE
- NOT RECOMMENDED



INTERRUPTED CUT

- RECOMMENDED
- ☒ ACCEPTABLE
- NOT RECOMMENDED

 V_c


COOLANT



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CHIPBREAKER



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TECHNICAL SECTION



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TURNING

D N U X



R Shown

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
DNUX 150608 R11	LT 1000				p. 224		T0002793

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
DNUX 150608 R11	LT 10				p. 224		T0002157

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	CCMT 060204 NN LT 1000
CATALOG NUMBER	T0001888

K N U X



R Shown

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
KNUX 160405 L	LT 10				p. 224		T0003884
KNUX 160405 R	LT 10				p. 224		T0000951

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	CCMT 060204 NN LT 1000
CATALOG NUMBER	T0001888

TURNING

RCMT



M0 Shown

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
RCMT 0602 M0	LT 1000	●	☒		p. 239		T0001914
RCMT 0803 M0	LT 1000	●	☒		p. 240		T0001915
RCMT 10T3 M0	LT 1000	●	☒		p. 241		T0001916
RCMT 1204 M0	LT 1000	●	☒		p. 242		T0001917

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
RCMT 0602 M0	LT 10	●	☒		p. 239		T0000090
RCMT 0803 M0	LT 10	●	☒		p. 240		T0000091
RCMT 10T3 M0	LT 10	●	☒		p. 241		T0000092
RCMT 1204 M0	LT 10	●	☒		p. 242		T0000093

MATERIAL GROUP			
	STEEL		HIGH TEMP ALLOYS
	STAINLESS STEEL		HARDENED MATERIAL
	CAST IRON		ALU(>8%Si)

ORDERING EXAMPLE	
QUANTITY	10 PIECES
DESIGNATION + GRADE	CCMT 060204 NN LT 1000
CATALOG NUMBER	T0001888

SCMT



NN Shown

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
SCMT 09T304 NN	LT 1000	●	☒		p. 220		T0001918
SCMT 09T308 NN	LT 1000	●	☒		p. 221		T0001919

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
SCMT 09T304 NN	LT 10	●	☒		p. 220		T0001459
SCMT 09T308 NN	LT 10	●	☒		p. 221		T0001458

STABLE CONDITIONS
● RECOMMENDED
☒ ACCEPTABLE
○ NOT RECOMMENDED

INTERRUPTED CUT
● RECOMMENDED
☒ ACCEPTABLE
○ NOT RECOMMENDED

V _c

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TURNING

S N M G



NX Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
SNMG 120408 MP	LT 1125P	●	●		p. 249		T0004974
SNMG 120412 MP	LT 1125P	●	●		p. 250		T0004975
SNMG 120408 NX	LT 1120M	●	●		p. 247		T0004742
SNMG 120408 NX	LT 1110S	●	☒		p. 245		T0004698

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
SNMG 120408 NX	LT 1000	●	☒		p. 229		T0003011
SNMG 120408 NN	LT 1000	●	☒		p. 230		T0001921
SNMG 120412 NN	LT 1000	●	☒		p. 231		T0001922

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
SNMG 120408 NN	LT 10	●	☒		p. 230		T0000322
SNMG 120412 NN	LT 10	●	☒		p. 231		T0000323

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	CCMT 060204 NN LT 1000
CATALOG NUMBER	T0001888

TURNING

T C M T

NN Shown



MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
TCMT 110204 NN	LT 1000	●	☒		p. 223		T0001924
TCMT 110208 NN	LT 1000	●	☒		p. 243		T0001925
TCMT 16T304 NN	LT 1000	●	☒		p. 220		T0001927
TCMT 16T308 NN	LT 1000	●	☒		p. 238		T0001928
TCMT 16T312 NN	LT 1000	●	☒		p. 222		T0001929

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
TCMT 110204 NN	LT 10	●	☒		p. 223		T0000477
TCMT 110208 NN	LT 10	●	☒		p. 243		T0000478
TCMT 16T304 NN	LT 10	●	☒		p. 220		T0000479
TCMT 16T308 NN	LT 10	●	☒		p. 238		T0000068
TCMT 16T312 NN	LT 10	●	☒		p. 222		T0001774

T N G G

NS Shown



MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
TNGG 160404 NS	LT 1110S	●	☒		p. 244		T0004608
TNGG 160408 NS	LT 1110S	●	☒		p. 244		T0004609

STABLE CONDITIONS
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED

INTERRUPTED CUT
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED

V_c

 COOLANT

 p. 357

CHIPBREAKER

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TECHNICAL SECTION

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TURNING

T N M G

NX Shown



MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
TNMG 160404 MP	LT 1125P	●	☒		p. 249		T0004976
TNMG 160408 MP	LT 1125P	●	●		p. 249		T0004977
TNMG 160412 MP	LT 1125P	●	●		p. 250		T0004978
TNMG 220408 MP	LT 1125P	●	●		p. 249		T0004979
TNMG 220412 MP	LT 1125P	●	●		p. 250		T0004980
TNMG 160408 NX	LT 1120M	●	●		p. 247		T0004746
TNMG 220408 NX	LT 1120M	●	●		p. 247		T0004748
TNMG 160404 NN	LT 1110S	●	☒		p. 246		T0004719
TNMG 160408 NX	LT 1110S	●	☒		p. 247		T0004700
TNMG 220404 NN	LT 1110S	●	☒		p. 246		T0004724
TNMG 220408 NX	LT 1110S	●	☒		p. 247		T0004703

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
TNMG 160404 NN	LT 1000	●	☒		p. 220		T0001931
TNMG 160408 NX	LT 1000	●	☒		p. 224		T0003012
TNMG 160408 NN	LT 1000	●	☒		p. 225		T0001932
TNMG 160412 NN	LT 1000	●	☒		p. 226		T0001933
TNMG 220404 NN	LT 1000	●	☒		p. 220		T0001934
TNMG 220408 NX	LT 1000	●	☒		p. 224		T0003013
TNMG 220408 NN	LT 1000	●	☒		p. 225		T0001935
TNMG 220412 NN	LT 1000	●	☒		p. 226		T0001936

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
TNMG 160404 NN	LT 10	●	☒		p. 220		T0000457
TNMG 160408 NN	LT 10	●	☒		p. 225		T0000069
TNMG 160412 NN	LT 10	●	☒		p. 226		T0001734
TNMG 220404 NN	LT 10	●	☒		p. 220		T0001873
TNMG 220408 NN	LT 10	●	☒		p. 225		T0000113
TNMG 220412 NN	LT 10	●	☒		p. 226		T0001735

MATERIAL GROUP			
 STEEL	 HIGH TEMP ALLOYS		
 STAINLESS STEEL	 HARDENED MATERIAL		
 CAST IRON	 ALU(>8%Si)		

ORDERING EXAMPLE	
QUANTITY	10 PIECES
DESIGNATION + GRADE	CCMT 060204 NN LT 1000
CATALOG NUMBER	T0001888

TURNING

T N M P



NN Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
TNMP 160408 NN	LT 1120M	●	☒		p. 248		T0004754

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
TNMP 160408 NN	LT 1000	●	○		p. 238		T0001937

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
TNMP 160408 NN	LT 10	●	○		p. 238		T0000492



STABLE CONDITIONS
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED



INTERRUPTED CUT
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED



V_c

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CHIPBREAKER

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TECHNICAL SECTION

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TURNING

T N U X



R Shown

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
TNUX 160404 L	LT 1000	●	○		p. 220		T0002794
TNUX 160404 R	LT 1000	●	○		p. 220		T0001938
TNUX 160408 L	LT 1000	●	⊗		p. 224		T0002795
TNUX 160408 R	LT 1000	●	⊗		p. 224		T0001939

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
TNUX 160404 L	LT 10	●	○		p. 220		T0001877
TNUX 160404 R	LT 10	●	○		p. 220		T0001125
TNUX 160408 L	LT 10	●	⊗		p. 224		T0003385
TNUX 160408 R	LT 10	●	⊗		p. 224		T0001137

T P M R



NN Shown

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
TPMR 160304 NN	LT 10	●	⊗		p. 220		T0001638
TPMR 160308 NN	LT 10	●	⊗		p. 238		T0001535

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	CCMT 060204 NN LT 1000
CATALOG NUMBER	T0001888

TURNING

VBMT



NN Shown

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
VBMT 110304 NN	LT 1000	●	☒		p. 223		T0001942
VBMT 160404 NN	LT 1000	●	☒		p. 220		T0001943
VBMT 160408 NN	LT 1000	●	☒		p. 221		T0001944

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
VBMT 110304 NN	LT 10	●	☒		p. 223		T0001460
VBMT 160404 NN	LT 10	●	☒		p. 220		T0000070
VBMT 160408 NN	LT 10	●	☒		p. 221		T0000071

VC GT



NS Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
VC GT 160404 NS	LT 1110S	●	☒		p. 244		T0004563
VC GT 160408 NS	LT 1110S	●	☒		p. 244		T0004565

STABLE CONDITIONS ● RECOMMENDED ☒ ACCEPTABLE ○ NOT RECOMMENDED	INTERRUPTED CUT ● RECOMMENDED ☒ ACCEPTABLE ○ NOT RECOMMENDED	V _c COOLANT p. 357	CHIPBREAKER p. 12 - 13	TECHNICAL SECTION p. 352 - 359
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TURNING

VCMT



NN Shown

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
VCMT 160404 NN	LT 1000	●	☒		220		T0001945
VCMT 160408 NN	LT 1000	●	☒		221		T0001946

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
VCMT 160404 NN	LT 10	●	☒		p. 220		T0001102
VCMT 160408 NN	LT 10	●	☒		p. 221		T0001103

VN GG



NS Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
VN GG 160404 NS	LT 1110S	●	☒		p. 244		T0004571
VN GG 160408 NS	LT 1110S	●	☒		p. 244		T0004575

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	CCMT 060204 NN LT 1000
CATALOG NUMBER	T0001888

TURNING

V N M G



NN Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
VNMG 160408 NN	LT 1120M	●	●		p. 248		T0004756
VNMG 160404 MP	LT 1125P	●	☒		p. 249		T0004981
VNMG 160408 MP	LT 1125P	●	☒		p. 249		T0004982

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
VNMG 160404 NN	LT 1000	●	☒		p. 220		T0001947
VNMG 160408 NN	LT 1000	●	☒		p. 221		T0001948

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
VNMG 160404 NN	LT 10	●	☒		p. 220		T0000072
VNMG 160408 NN	LT 10	●	☒		p. 221		T0000073

	STABLE CONDITIONS		INTERRUPTED CUT	V _c	COOLANT	CHIPBREAKER	TECHNICAL SECTION
●	RECOMMENDED	●	RECOMMENDED				
☒	ACCEPTABLE	☒	ACCEPTABLE		p. 357	p. 12 - 13	p. 352 - 359
○	NOT RECOMMENDED	○	NOT RECOMMENDED				

W N G G



NS Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
WNGG 060404 NS	LT 1110S	●	☒		p. 244		T0004610
WNGG 060408 NS	LT 1110S	●	☒		p. 244		T0004611
WNGG 080404 NS	LT 1110S	●	☒		p. 244		T0004612
WNGG 080408 NS	LT 1110S	●	☒		p. 244		T0004613

MATERIAL GROUP			
	STEEL		HIGH TEMP ALLOYS
	STAINLESS STEEL		HARDENED MATERIAL
	CAST IRON		ALU(>8%Si)

ORDERING EXAMPLE	
QUANTITY	10 PIECES
DESIGNATION + GRADE	CCMT 060204 NN L T 1000
CATALOG NUMBER	T0001888

W N M G

NN Shown



MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
WNMG 060408 MP	LT 1125P	●	●		p. 250		T0004983
WNMG 080404 MP	LT 1125P	●	☒		p. 249		T0004984
WNMG 080408 MP	LT 1125P	●	●		p. 250		T0004990
WNMG 080412 MP	LT 1125P	●	●		p. 250		T0004989
WNMG 060408 NX	LT 1120M	●	●		p. 247		T0004758
WNMG 080408 NX	LT 1120M	●	●		p. 247		T0004759
WNMG 060404 NN	LT 1110S	●	☒		p. 246		T0004716
WNMG 060408 NX	LT 1110S	●	☒		p. 245		T0004695
WNMG 080404 NN	LT 1110S	●	☒		p. 246		T0004717
WNMG 080408 NX	LT 1110S	●	☒		p. 245		T0004696
WNMG 080412 NN	LT1110S	●	☒		p. 246		T0004718

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
WNMG 060404 NN	LT 1000	●	☒		p. 220		T0001949
WNMG 060408 NX	LT 1000	●	☒		p. 232		T0003014
WNMG 060408 NN	LT 1000	●	☒		p. 233		T0001950
WNMG 080404 NN	LT 1000	●	☒		p. 220		T0001951
WNMG 080408 NX	LT 1000	●	☒		p. 232		T0002742
WNMG 080408 NN	LT 1000	●	☒		p. 233		T0001952
WNMG 080408 NM	LT 1000	●	☒		p. 235		T0001969
WNMG 080412 NN	LT 1000	●	☒		p. 234		T0001953

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
WNMG 060404 NN	LT 10	●	☒		p. 220		T0000133
WNMG 060408 NN	LT 10	●	☒		p. 233		T0000137
WNMG 080404 NN	LT 10	●	☒		p. 220		T0000584
WNMG 080408 NN	LT 10	●	☒		p. 233		T0000075
WNMG 080408 NM	LT 10	●	☒		p. 235		T0001967
WNMG 080412 NN	LT 10	●	☒		p. 234		T0000077

 STABLE CONDITIONS
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED

 INTERRUPTED CUT
 ● RECOMMENDED
 ☒ ACCEPTABLE
 ○ NOT RECOMMENDED

V_c


COOLANT
 p. 357

CHIPBREAKER
 p. 12 - 13

TECHNICAL SECTION
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W N M P



NN Shown

MAGIA PRO

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
WNMP 080408 NN	LT 1120M				p. 248		T0004762

MAGIA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
WNMP 060404 NN	LT 1000				p. 220		T0001954
WNMP 060408 NN	LT 1000				p. 233		T0001955
WNMP 080408 NN	LT 1000				p. 233		T0001956

ALPHA

DESIGNATION	GRADE			V _c	CUTTING DATA	MATERIAL RECOMMENDATION	CATALOG #
WNMP 060404 NN	LT 10				p. 220		T0000306
WNMP 060408 NN	LT 10				p. 233		T0000307
WNMP 080408 NN	LT 10				p. 233		T0000308

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	CCMT 060204 NN LT 1000
CATALOG NUMBER	T0001888

ALU TURNING

LT 05

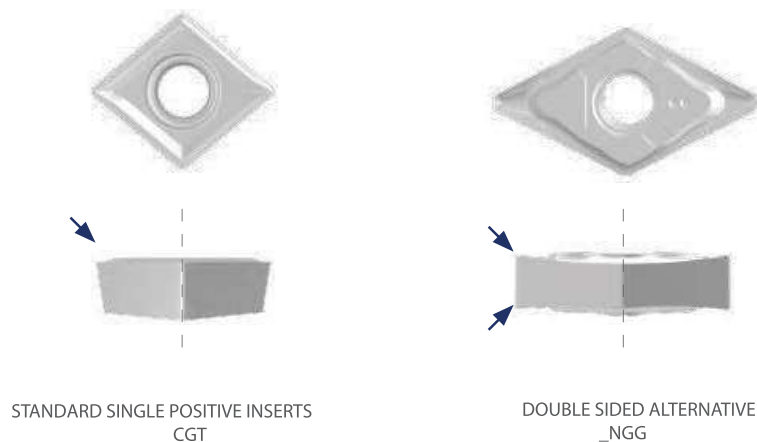
IMPROVED TURNING INSERTS FOR ALUMINIUM AND OTHER NON FERROUS MATERIALS

Our long lasting aluminium line has been improved by combining our unique PVD coating and sub-micron substrate with the newly designed NS chipbreaker for flawless aluminium turning.

The new NS chipbreaker has a larger supporting area in the pocket seat which provides greater stability and thus a better surface finish.

aluminium _CGT turning geometries are single sided positive inserts while our economic _NGG geometries are doubled sided and fit all standard ISO tool holders.

- Specially designed deflectors facilitate chip breaking and enhancing chip evacuation
- Larger supporting area in the pocket seat for greater stability and better surface finish
- Our unique PVD coating has low affinity for aluminium, eliminates built-up edge
- Sharp edges slide through aluminium without sticking



ALU TURNING

C C G T



DESIGNATION	GRADE	MATERIAL RECOMMENDATION	CATALOG #
CCGT 060204 NS	LT 05		T0004773
CCGT 09T304 NS	LT 05		T0004774

C N G G



DESIGNATION	GRADE	MATERIAL RECOMMENDATION	CATALOG #
CNGG 09T304 NS	LT 05		T0004578
CNGG 120404 NS	LT 05		T0004576
CNGG 120408 NS	LT 05		T0004577

D C G T



DESIGNATION	GRADE	MATERIAL RECOMMENDATION	CATALOG #
DCGT 11T304 NS	LT 05		T0004775

CUTTING DATA



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TECHNICAL SECTION



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ALU TURNING

D N G G



DESIGNATION	GRADE	MATERIAL RECOMMENDATION	CATALOG #
DNGG 110404 NS	LT 05		T0004589
DNGG 110408 NS	LT 05		T0004601
DNGG 150604 NS	LT 05		T0004403
DNGG 150608 NS	LT 05		T0004404

V C G T



DESIGNATION	GRADE	MATERIAL RECOMMENDATION	CATALOG #
VCGT 160404 NS	LT 05		T0004564
VCGT 160408 NS	LT 05		T0004566

V N G G



DESIGNATION	GRADE	MATERIAL RECOMMENDATION	CATALOG #
VNGG 160404 NS	LT 05		T0002830
VNGG 160408 NS	LT 05		T0002831

CUTTING DATA



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TECHNICAL SECTION



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ALU TURNING

T N G G



DESIGNATION	GRADE	MATERIAL RECOMMENDATION	CATALOG #
TNGG 160404 NS	LT 05	■	T0004602
TNGG 160408 NS	LT 05	■	T0004603

W N G G



DESIGNATION	GRADE	MATERIAL RECOMMENDATION	CATALOG #
WNGG 060404 NS	LT 05	■	T0004605
WNGG 060408 NS	LT 05	■	T0004551
WNGG 080404 NS	LT 05	■	T0004598
WNGG 080408 NS	LT 05	■	T0004552

CUTTING DATA



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TECHNICAL SECTION



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PARTING & GROOVING

GCTX



MAGIA

DESIGNATION	GRADE	W	R	MATERIAL RECOMMENDATION	CATALOG #
GCTX 2002 NN	LT 1000	2.00	0.18		T0002825
GCTX 3003 NN	LT 1000	3.00	0.25		T0002826
GCTX 3003 PP	LT 1000	3.00	0.25		T0002828

M G M N



ALPHA

DESIGNATION	GRADE	W	R	MATERIAL RECOMMENDATION	CATALOG #
MGMN 200 G	LT 10	2.00	0.2		T0003909
MGMN 300 M	LT 10	3.00	0.4		T0003910
MGMN 400 M	LT 10	4.00	0.4		T0003911
MGMN 500 M	LT 10	5.00	0.8		T0003921

WGE



ALPHA

DESIGNATION	GRADE	W	R	MATERIAL RECOMMENDATION	CATALOG #
WGE 2000	LT 10	2.00	0.2		T0003932
WGE 3000	LT 10	3.00	0.2		T0003933
WGE 4000	LT 10	4.00	0.2		T0003934
WGE 5000	LT 10	5.00	0.2		T0003935

CUTTING DATA



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THREAD TURNING

INSERT ORDERING CODE

ISO	0.5			ER	16	
PROFILE	PITCH			TYPE OF INSERT	INSERT SIZE	
PARTIAL PROFILE 60°, 55°	SHAPE	mm	TPI	ER External right handed	L	I.C.
	A	0.5 - 1.5	48 - 16		06	4.0
FULL PROFILE ISO METRIC, BSPT, NPT, UN, TRAPEZ, WITHWORTH	G	1.75 - 3.0	14 - 8	EL External left handed	08	5.0
	AG	0.5 - 3.0	48 - 8		11	6.3
	N	3.5 - 5.0	7 - 5	IR Internal right handed	16	9.5
	Q	5.5 - 6.0	4.5 - 4		22	12.7
	Full Profile			IL Internal left handed	27	15.8
	-	3.5 - 6.0	72 - 4			

PARTIAL (A,G,AG,N,Q)	FULL
 • Most economical solution • Used for wide range of pitches • It is partial because the exterior major or internal minor diameter is not machined	 • Cuts all thread shapes according to the requirements • Wide range of inserts needed in order to fit each standard and range of pitches

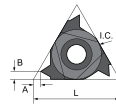
TOOL HOLDER ORDERING CODE

HER	2525	M		16	
HOLDER TYPE	SHANK	TOOL LENGTH		INSERT SIZE	
HER External right handed	External Tool holders	H	100	L	I.C.
	Square Shank:	K	125	06	4.0
HEL External left handed	8, 10, 12, 16,	L	140	08	5.0
	20, 25, 32	M	150	11	6.3
HIR Internal right handed	Internal Tool holders	P	170	16	9.5
	Round Shank:	R	200	22	12.7
HIL Internal left handed	10, 12, 16, 20,	S	250	27	15.8
	25, 32, 40	T	300		

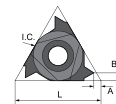


THREAD TURNING

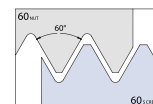
PARTIAL PROFILE 60°



EXTERNAL RIGHT

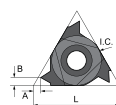


INTERNAL RIGHT

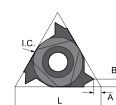


DESIGNATION	GRADE	PITCH RANGE		DIMENSIONS				CATALOG #
		mm	TPI	L mm	I.C.	A	B	
EXTERNAL								
A60 ER16	LT 10	0.5 - 1.5	48 - 16	16	9.5	0.8	0.9	TH000004
G60 ER16	LT 10	1.75 - 3.0	14 - 8	16	9.5	1.2	1.7	TH000010
AG60 ER16	LT 10	0.5 - 3.0	48 - 8	16	9.5	1.2	1.7	TH000016
N60 ER 22	LT 10	3.5 - 5.0	7 - 5	22	12.7	1.7	2.5	TH000116
INTERNAL								
A60 IR11	LT 10	0.5 - 1.5	48 - 16	11	6.3	0.8	0.9	TH000001
A60 IR16	LT 10	0.5 - 1.5	48 - 16	16	9.5	0.8	0.9	TH000007
G60 IR16	LT 10	1.75 - 3.0	14 - 8	16	9.5	1.2	1.7	TH000013
AG60 IR16	LT 10	0.5 - 3.0	48 - 8	16	9.5	1.2	1.7	TH000019
N60 IR 22	LT 10	3.5 - 5.0	7 - 5	22	12.7	1.7	2.5	TH000119

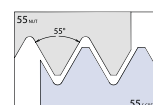
PARTIAL PROFILE 55°



EXTERNAL RIGHT



INTERNAL RIGHT



DESIGNATION	GRADE	PITCH RANGE		DIMENSIONS				CATALOG #
		mm	TPI	L mm	I.C.	A	B	
EXTERNAL								
A55 ER16	LT 10	0.5 - 1.5	48 - 8	16	9.5	0.8	0.9	TH000167
AG55 ER16	LT 10	0.5 - 3.0	48 - 8	16	9.5	1.2	1.7	TH000022
G55 ER16	LT 10	1.75 - 3.0	7 - 5	16	9.5	1.2	1.7	TH000168
N55 ER22	LT 10	3.5 - 5.0	7 - 5	22	12.7	1.7	2.5	TH000120
INTERNAL								
A55 IR16	LT 10	0.5 - 1.5	48 - 8	16	9.5	0.8	0.9	TH000183
AG55 IR16	LT 10	0.5 - 3.0	48 - 8	16	9.5	1.2	1.7	TH000025
G55 IR16	LT 10	1.75 - 3.0	7 - 5	16	9.5	1.2	1.7	TH000184
N55 IR22	LT 10	3.5 - 5.0	7 - 5	22	12.7	1.7	2.5	TH000121

CUTTING DATA



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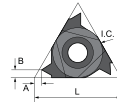
TECHNICAL SECTION



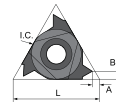
p. 360 - 365

THREAD TURNING

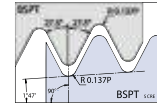
BSPT



EXTERNAL RIGHT



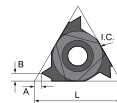
INTERNAL RIGHT



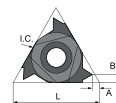
B.S. 21: 1985

DESIGNATION	GRADE	TPI	DIMENSIONS				CATALOG #
			L mm	I.C.	A	B	
EXTERNAL							
BSPT11 ER16	LT 10	11	16	9.525	1.1	1.5	TH000138
BSPT14 ER16	LT 10	14	16	9.525	1.0	1.2	TH000137
BSPT19 ER16	LT 10	19	16	9.525	0.8	0.9	TH000136
INTERNAL							
BSPT11 IR16	LT 10	11	16	9.525	1.1	1.5	TH000141
BSPT14 IR16	LT 10	14	16	9.525	1.0	1.2	TH000140
BSPT19 IR16	LT 10	19	16	9.525	0.8	0.9	TH000139

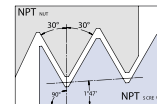
NPT



EXTERNAL RIGHT



INTERNAL RIGHT



ANSI/ASME B
1.20.1-1983

DESIGNATION	GRADE	TPI	DIMENSIONS				CATALOG #
			L mm	I.C.	A	B	
EXTERNAL							
NPT 8 ER16	LT 10	8	16	9.525	1.3	1.8	TH000145
NPT 11.5 ER16	LT 10	11.5	16	9.525	1.1	1.5	TH000144
NPT 14 ER16	LT 10	14	16	9.525	0.9	1.2	TH000143
NPT 18 ER16	LT 10	18	16	9.525	0.8	1.0	TH000142
INTERNAL							
NPT 8 IR16	LT 10	8	16	9.525	1.3	1.8	TH000148
NPT 11.5 IR16	LT 10	11.5	16	9.525	1.1	1.5	TH000147
NPT 14 IR16	LT 10	14	16	9.525	0.9	1.2	TH000146
NPT 27 IR16	LT 10	27	16	9.525	0.7	0.8	TH000181

CUTTING DATA



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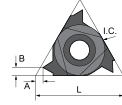
TECHNICAL SECTION



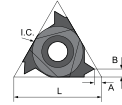
p. 360 - 365

THREAD TURNING

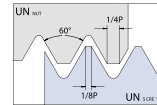
UN



EXTERNAL RIGHT



INTERNAL RIGHT



ANSI B1.1-1982

DESIGNATION	GRADE	TPI	DIMENSIONS				CATALOG #
			L mm	I.C.	A	B	
EXTERNAL							
UN 10 ER16	LT 10	10	16	9.525	1.1	1.5	TH000161
UN 12 ER16	LT 10	12	16	9.525	1.1	1.4	TH000088
UN 13 ER16	LT 10	13	16	9.525	1.0	1.3	TH000163
UN 16 ER16	LT 10	16	16	9.525	0.9	1.1	TH000082
UN 20 ER16	LT 10	20	16	9.525	0.8	0.9	TH000076
UN 24 ER16	LT 10	24	16	9.525	0.7	0.8	TH000165
UN 32 ER16	LT 10	32	16	9.525	0.6	0.6	TH000166
UN 5 ER22	LT 10	5	22	12.70	1.7	2.4	TH000186
UN 6 ER22	LT 10	6	22	12.70	1.6	2.3	TH000189
UN 7 ER22	LT 10	7	22	12.70	1.6	2.3	TH000190
INTERNAL							
UN 8 IR16	LT 10	8	16	9.525	1.2	1.6	TH000170
UN 9 IR16	LT 10	9	16	9.525	1.2	1.7	TH000171
UN 10 IR16	LT 10	10	16	9.525	1.1	1.5	TH000172
UN 11 IR16	LT 10	11	16	9.525	1.1	1.5	TH000173
UN 11.5 IR16	LT 10	11.5	16	9.525	1.1	1.5	TH000174
UN 12 IR16	LT 10	12	16	9.525	0.8	0.9	TH000091
UN 13 IR16	LT 10	13	16	9.525	1.0	1.3	TH000175
UN 16 IR16	LT 10	16	16	9.525	0.9	1.1	TH000085
UN 20 IR16	LT 10	20	16	9.525	1.1	1.4	TH000079
UN 32 IR16	LT 10	32	16	9.525	0.6	0.6	TH000182
UN 6 IR22	LT 10	6	22	12.70	1.6	2.3	TH000196
UN 7 IR22	LT 10	7	22	12.70	1.6	2.3	TH000198

CUTTING DATA



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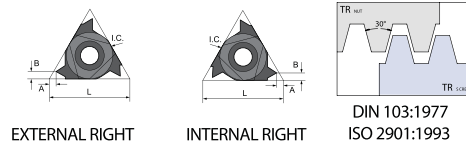
TECHNICAL SECTION



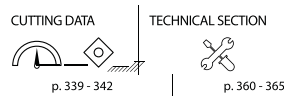
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THREAD TURNING

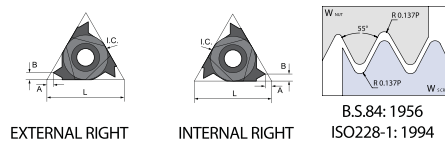
TRAPEZ



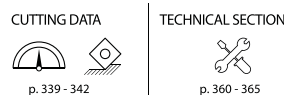
DESIGNATION	GRADE	PITCH mm	DIMENSIONS				CATALOG #
			L mm	I.C.	A	B	
EXTERNAL							
TR 2.0 ER16	LT 10	2.00	16	9.525	1.0	1.3	TH000160
TR 3.0 ER16	LT 10	3.00	16	9.525	1.3	1.5	TH000149
TR 5.0 ER22	LT 10	5.00	22	12.70	2.0	2.4	TH000185
TR 6.0 ER22	LT 10	6.00	22	12.70	2.0	2.4	TH000188
TR 4.0 ER22	LT 10	4.00	22	12.70	1.7	1.9	TH000150
INTERNAL							
TR 2.0 IR16	LT 10	2.00	16	9.525	1.0	1.3	TH000169
TR 3.0 IR16	LT 10	3.00	16	9.525	1.3	1.5	TH000151
TR 4.0 IR22	LT 10	4.00	22	12.70	1.7	1.9	TH000152
TR 5.0 IR22	LT 10	5.00	22	12.70	2.0	2.4	TH000194
TR 6.0 IR22	LT 10	6.00	22	12.70	2.0	2.4	TH000195



WHITWORTH

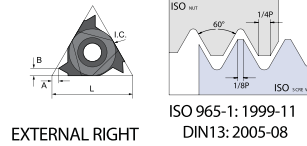


DESIGNATION	GRADE	TPI	DIMENSIONS				CATALOG #
			L mm	I.C.	A	B	
EXTERNAL							
W 10 ER16	LT 10	10	16	9.525	1.1	1.5	TH000162
W 11 ER16	LT 10	11	16	9.525	1.1	1.5	TH000100
W 14 ER16	LT 10	14	16	9.525	1.0	1.2	TH000094
W 16 ER16	LT 10	16	16	9.525	0.9	1.1	TH000164
W 19 ER16	LT 10	19	16	9.525	0.8	1.0	TH000134
W 5 ER22	LT 10	5	22	12.70	1.7	2.4	TH000187
W 7 ER22	LT 10	7	22	12.70	1.6	2.3	TH000191
INTERNAL							
W 11 IR16	LT 10	11	16	9.525	1.1	1.5	TH000103
W 14 IR16	LT 10	14	16	9.525	1.0	1.2	TH000097
W 16 IR16	LT 10	16	16	9.525	0.9	1.1	TH000176
W 18 IR16	LT 10	18	16	9.525	0.8	1.0	TH000177
W 19 IR16	LT 10	19	16	9.525	0.8	1.0	TH000135
W 20 IR16	LT 10	20	16	9.525	0.8	0.9	TH000178
W 24 IR16	LT 10	24	16	9.525	0.7	0.8	TH000179
W 26 IR16	LT 10	26	16	9.525	0.7	0.7	TH000180
W 6 IR22	LT 10	6	22	12.70	1.6	2.3	TH000197
W 7 IR22	LT 10	7	22	12.70	1.6	2.3	TH000199



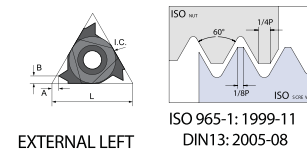
THREAD TURNING

ISO



DESIGNATION	GRADE	PITCH mm	DIMENSIONS				CATALOG #
			L mm	I.C.	A	B	
EXTERNAL							
ISO 0.5 ER16	LT 10	0.5	16	9.525	0.6	0.6	TH000122
ISO 0.6 ER16	LT 10	0.6	16	9.525	0.6	0.6	TH000123
ISO 0.7 ER16	LT 10	0.7	16	9.525	0.6	0.6	TH000124
ISO 0.75 ER16	LT 10	0.75	16	9.525	0.6	0.6	TH000125
ISO 0.8 ER16	LT 10	0.8	16	9.525	0.6	0.6	TH000036
ISO 1.0 ER16	LT 10	1.0	16	9.525	0.6	0.7	TH000037
ISO 1.25 ER16	LT 10	1.25	16	9.525	0.8	0.9	TH000043
ISO 1.5 ER16	LT 10	1.5	16	9.525	0.8	1.0	TH000049
ISO 1.75 ER16	LT 10	1.75	16	9.525	0.9	1.2	TH000055
ISO 2.0 ER16	LT 10	2.0	16	9.525	1.0	1.3	TH000058
ISO 2.5 ER16	LT 10	2.5	16	9.525	1.1	1.5	TH000064
ISO 3.0 ER16	LT 10	3.0	16	9.525	1.1	1.5	TH000070
ISO 3.5 ER22	LT 10	3.5	22	12.70	1.6	2.3	TH000126
ISO 4.0 ER22	LT 10	4.0	22	12.70	1.6	1.5	TH000127
ISO 5.0 ER22	LT 10	5.0	22	12.70	1.6	1.3	TH000192
ISO 6.0 ER22	LT 10	6.0	22	12.70	1.6	2.4	TH000193

ISO



DESIGNATION	GRADE	PITCH mm	DIMENSIONS				CATALOG #
			L mm	I.C.	A	B	
EXTERNAL							
ISO 1.0 EL16	LT 10	1.0	16	9.525	0.7	0.7	TH000210
ISO 1.25 EL16	LT 10	1.25	16	9.525	0.8	0.9	TH000212
ISO 1.5 EL16	LT 10	1.5	16	9.525	0.8	1.0	TH000158
ISO 2.0 EL16	LT 10	2.0	16	9.525	1.0	1.3	TH000206
ISO 2.5 EL16	LT 10	2.5	16	9.525	1.1	1.5	TH000208

CUTTING DATA

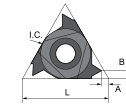


TECHNICAL SECTION

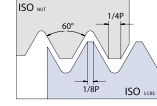


THREAD TURNING

ISO



INTERNAL LEFT



ISO 965-1: 1999-11
DIN13: 2005-08

DESIGNATION	GRADE	PITCH mm	DIMENSIONS				CATALOG #
			L mm	I.C.	A	B	
INTERNAL							
ISO 1.0 IL11	LT 10	1.0	11	6.35	0.6	0.7	TH000211
ISO 1.25 IL11	LT 10	1.5	11	6.35	0.8	0.8	TH000213
ISO 1.5 IL16	LT 10	1.5	16	9.525	0.8	1.0	TH000159
ISO 1.75 IL16	LT 10	1.75	16	9.525	0.9	1.2	TH000205
ISO 2.0 IL16	LT 10	2.0	16	9.525	1.0	1.3	TH000207
ISO 2.5 IL16	LT 10	2.5	16	9.525	1.1	1.5	TH000209

CUTTING DATA



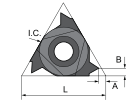
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TECHNICAL SECTION

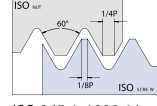


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ISO



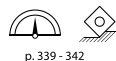
INTERNAL RIGHT



ISO 965-1: 1999-11
DIN13: 2005-08

DESIGNATION	GRADE	PITCH mm	DIMENSIONS				CATALOG #
			L mm	I.C.	A	B	
INTERNAL							
ISO 1.0 IR11	LT 10	1.0	11	6.35	0.6	0.7	TH000028
ISO 1.5 IR11	LT 10	1.5	11	6.35	0.8	1.0	TH000031
ISO 2.0 IR11	LT 10	2.0	11	6.35	0.8	0.9	TH000034
ISO 0.5 IR16	LT 10	0.5	16	9.525	0.6	0.4	TH000128
ISO 0.6 IR16	LT 10	0.6	16	9.525	0.6	0.6	TH000129
ISO 0.7 IR16	LT 10	0.7	16	9.525	0.6	0.6	TH000130
ISO 0.75 IR16	LT 10	0.75	16	9.525	0.6	0.6	TH000131
ISO 0.8 IR16	LT 10	0.8	16	9.525	0.6	0.6	TH000132
ISO 1.0 IR16	LT 10	1.0	16	9.525	0.7	0.7	TH000040
ISO 1.25 IR16	LT 10	1.25	16	9.525	0.8	0.9	TH000046
ISO 1.5 IR16	LT 10	1.5	16	9.525	0.8	1.8	TH000052
ISO 1.75 IR16	LT 10	1.75	16	9.525	0.9	1.2	TH000056
ISO 2.0 IR16	LT 10	2.0	16	9.525	1.0	1.3	TH000061
ISO 2.5 IR16	LT 10	2.5	16	9.525	1.1	1.5	TH000067
ISO 3.0 IR16	LT 10	3.0	16	9.525	1.1	1.5	TH000073
ISO 3.5 IR22	LT 10	3.5	16	9.525	1.6	2.3	TH000200
ISO 4.0 IR22	LT 10	4.0	22	12.70	1.6	2.3	TH000133
ISO 4.5 IR22	LT 10	4.5	22	12.70	1.6	2.4	TH000201
ISO 5.0 IR22	LT 10	5.0	22	12.70	1.6	2.3	TH000202
ISO 5.5 IR22	LT 10	5.5	22	12.70	1.6	2.3	TH000203
ISO 6.0 IR22	LT 10	6.0	22	12.70	1.6	2.4	TH000204

CUTTING DATA



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TECHNICAL SECTION



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MILLING

INSERT DESIGNATION (BASED ON ISO NORMS)



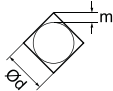
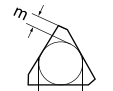
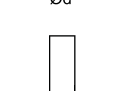
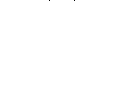
1. Insert Shape

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

2. Clearance Angle

Letter Symbol	α
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°
O	Special

3. Tolerance Class

d (mm) m (mm) s (mm)	Symbol	D	M	S
	A	± 0.025	± 0.005	± 0.025
	C	± 0.025	± 0.013	± 0.025
	E	± 0.025	± 0.025	± 0.025
	F	± 0.013	± 0.005	± 0.025
	G	± 0.025	± 0.025	± 0.130
	H	± 0.013	± 0.013	± 0.025
	J*	$\pm 0.05-0.15$	± 0.005	± 0.025
	K*	$\pm 0.05-0.15$	± 0.013	± 0.025
	L*	$\pm 0.05-0.15$	± 0.025	± 0.025
	M*	$\pm 0.05-0.15$	$\pm 0.08-0.20$	± 0.130
	N*	$\pm 0.05-0.15$	$\pm 0.08-0.20$	± 0.025
	U*	$\pm 0.08-0.25$	$\pm 0.13-0.38$	± 0.130

* Depending on the insert size.

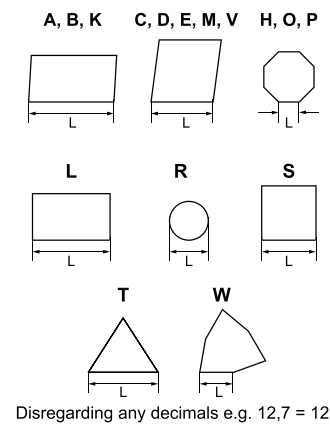
4. Fixing and Chipbreaker Types

Type	Symbol	Type	Symbol
A		N	
B		P	
F		R	
G		T	
H		W	
M		X	Special Design

MILLING

16	04	PD	T	R	
5	6	7	8	9	10

5. Cutting Edge Length



6. Insert Thickness

Symbol	mm
01	= 1.59
T1	= 1.98
02	= 2.38
03	= 3.18
T3	= 3.97
04	= 4.76
05	= 5.56
06	= 6.35
07	= 7.94
09	= 9.52

7. Insert Corner Radius

1 st letter (Milling)
A = 45°
D = 60°
E = 75°
F = 85°
P = 90°
Z = other
2 nd letter (Milling)
A = 3°
B = 5°
C = 7°
D = 15°
E = 20°
F = 25°
G = 30°
N = 0°
P = 11°
Z = other

00 = Sharp corner or round insert (inch version)

M0 = Round insert (metric version)

01 = 0.1 mm

02 = 0.2 mm

04 = 0.4 mm

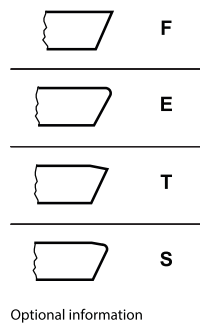
08 = 0.8 mm

12 = 1.2 mm

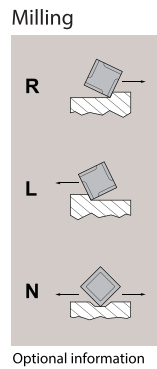
16 = 1.6 mm

etc

8. Edge Preparation



9. Cutting Direction



10. Internal Designation

e.g. Application (Milling)

- 45 = 45° Approach Angle
- 90 = 90° Approach Angle
- HF = High Feed

Optional information



MILLING

CUTTER DESIGNATION

LT 741 C - W - D016 / 2

1	2	3	4	5	6
1. Standard	2. Cutter Family Number	3. Coupling	4. Internal Coolant	5. Diameter	6. # of Teeth
LT - Metric RILT - Imperial		C - Cylindrical CL - Cylindrical Long W - Weldon WL - Weldon Long M - Shell Mill S - Screw Coupling FW - Long Edge	D - No Internal Coolant W - Internal Coolant	D016 = 16 mm D1000 = 1"	2 = 2 teeth

MILLING CUTTER LINES

CUTTER LINE	FITS INSERT
LT 060	RD.. 0602 M0
LT 070	RD.. 0702 M0
LT 080	RD.. 0803 M0
LT 100	RD.. 10T3 M0
LT 101	RX.. 10T3 M0
LT 120	RD.. 1204 M0
LT 121	RX.. 1204 M0
LT 160	RD.. 1604 M0
LT 400	SPMT 060304 TN SPMT 09T308 FN/TN SPMT 120408 TN
LT 600	SEKT 1204 AFTN
LT 610	SEKT 12T3 AGSN
LT 645	HNKX 0604-45
LT 731	APKT 160408 PDTR

CUTTER LINE	FITS INSERT
LT 737	APKT 1705 PETR
LT 741	APKT 100308 PDTR
LT 745	APKT 100332/40 PDTR
LT 752	APKT 060204 PDTR
LT 770	LDMT 1504 PDSR
LT 790	ADKT 1505 PDTR
LT 800	OFMT 05T305 TN
LT 902	SDKX 0904-HF
LT 903	SDKX 1205-HF
LT 910	XPKT 0602-HF XPKW 0602-HF
LT 946	SNKX 1205-45
LT 947	SNKX 1607-45
LT 987	ONKX 0806-45

MILLING

LT EXT C - W - M10

1 **2** **3** **4** **5**

LT - Metric
RILT - Imperial

Screw-on Coupling
Extension

C - Cylindric
W - Weldon
S - Screw Coupling

D - No Internal
Coolant
W - Internal Coolant

Coupling Dimension

D19(19) L150(30) - ST

6 **7** **8** **9** **10**

Shank Diameter

Neck Diameter

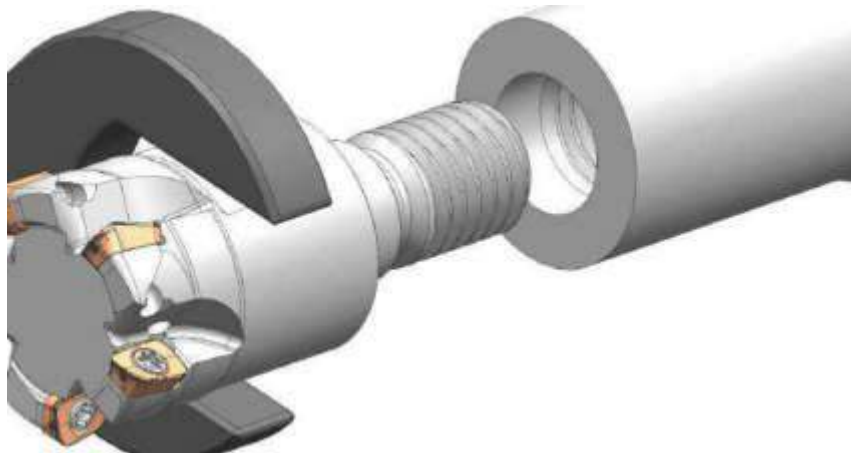
Total Length

Neck Length

ST - Steel
CC - Cemented Carbide

RECOMMENDED SCREW COUPLING TIGHTENING TORQUES

CONNECTING THREAD SIZE	TIGHTENING TORQUE	MOUNTING KEY SIZE (MM)
M6	10 NM	9
M8	25 NM	11
M10	40 NM	15
M12	60 NM	19
M16	80 NM	26



MILLING

SEKT



MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SEKT 1204 AFTN	LT 3130	-	4	LT 600		p. 322	M0004486
SEKT 12T3 AGSN	LT 3130	-	4	LT 610		p. 322	M0004487

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SEKT 1204 AFTN	LT 3000	-	4	LT 600		p. 296	M0002230
SEKT 12T3 AGSN	LT 3000	-	4	LT 610		p. 296	M0002231

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SEKT 1204 AFTN	LT 30	-	4	LT 600		p. 296	M0000045
SEKT 12T3 AGSN	LT 30	-	4	LT 610		p. 296	M0000045

MATERIAL GROUP

 STEEL
 STAINLESS STEEL
 CAST IRON

 HIGH TEMP ALLOYS
 HARDENED MATERIAL
 ALU(>8%Si)

COOLANT


 p. 357

ORDERING EXAMPLE

QUANTITY
 DESIGNATION + GRADE
 CATALOG NUMBER

10 PIECES
 APKT 060204 PDTR LT 3000
 M0004026

TECHNICAL SECTION


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MILLING

SNKX



MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SNKX 1205-45	LT 3130	-	8	LT 946		p. 323	M0004490
SNKX 1607-45	LT 3130	-	8	LT 947		p. 323	M0004491

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SNKX 1205-45	LT 3000	-	8	LT 946		p. 297	M0003415
SNKX 1607-45	LT 3000	-	8	LT 947		p. 298	M0002237

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SNKX 1205-45	LT 30	-	8	LT 946		p. 297	M0003221
SNKX 1607-45	LT 30	-	8	LT 947		p. 298	M0002205

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

COOLANT



ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



MILLING

H N K X



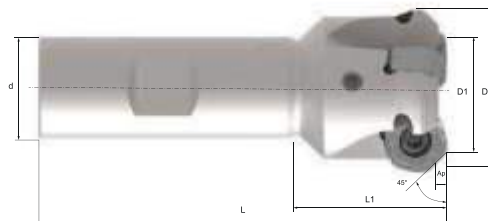
MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
HNKX 0604-45	LT 3130	-	12	LT 645		p. 314	M0004473

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
HNKX 0604-45	LT 3000	-	12	LT 645		p. 276	M0004364

CUTTERS HNKX



END MILL - HNKX 0604-45

DESIGNATION	D	D1	d	L	L1	Ap	Z	CATALOG #
LT 645 W-W-D025/3	34	25	20	32	82	3.2	3	M2001440
LT 645 W-W-D032/4	41	32	25	40	97	3.2	4	M2001441
LT 645 W-W-D040/5	49	40	32	40	115	3.2	5	M2001442

SCREW KEY
M2000597
M2000602

MATERIAL GROUP
 STEEL
 STAINLESS STEEL
 CAST IRON

 HIGH TEMP ALLOYS
 HARDENED MATERIAL
 ALU(>8%Si)

COOLANT

p. 357

ORDERING EXAMPLE
QUANTITY
DESIGNATION + GRADE
CATALOG NUMBER

10 PIECES
APKT 060204 PDTR LT 3000
M0004026

TECHNICAL SECTION

p. 366 - 376

MILLING

ONKX



MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
ONKX 0806-45	LT 3130	0.8	16	LT 987		p. 315	M0004475

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
ONKX 0806-45	LT 3000	0.8	16	LT 987		p. 282	M0002211

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
ONKX 0806-45	LT 30	0.8	16	LT 987		p. 282	M0003673

MATERIAL GROUP			
	STEEL		HIGH TEMP ALLOYS
	STAINLESS STEEL		HARDENED MATERIAL
	CAST IRON		ALU (>8% Si)

COOLANT

p. 357

ORDERING EXAMPLE
QUANTITY
DESIGNATION + GRADE
CATALOG NUMBER
10 PIECES
APKT 060204 PDTR LT 3000
M0004026

TECHNICAL SECTION

p. 366 - 376

MILLING

OFMT

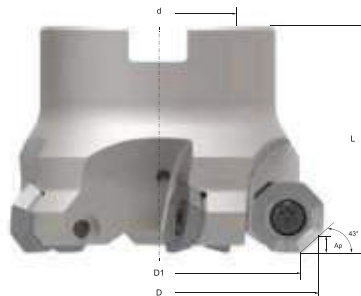


MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
OFMT 050405 TR	LT 3000	0.8	8	-		p. 278	M0002220
OFMT 05T305 TN	LT 3000	0.8	8	LT 800		p. 278	M0002221
OFMT 070405 TN	LT 3000	0.5	8	-		p. 281	M0002222

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
OFMT 050405 TR	LT 30	0.8	8	-		p. 278	M0000034
OFMT 05T305 TN	LT 30	0.8	8	LT 800		p. 278	M0000591
OFMT 070405 TN	LT 30	0.5	8	-		p. 281	M0000592



SHELL MILL - OFMT 05T305 TN

DESIGNATION	D	D1	d	L	Ap	Z	CATALOG #
LT 800 M-W-D040/3	47	40	16	40	3	3	M2000502
LT 800 M-W-D050/4	57	50	22	40	3	4	M2000503
LT 800 M-W-D063/5	70	63	22	40	3	5	M2000504
LT 800 M-W-D080/6	87	80	27	50	3	6	M2000505
LT 800 M-W-D100/7	107	100	32	50	3	7	M2000506
LT 800 M-W-D125/8	132	125	40	63	3	8	M2000507

SCREW M2000597
 KEY M2000602

MATERIAL GROUP
 STEEL
 STAINLESS STEEL
 CAST IRON

 HIGH TEMP ALLOYS
 HARDENED MATERIAL
 ALU(>8%Si)

COOLANT

 p. 357

ORDERING EXAMPLE
 QUANTITY 10 PIECES
 DESIGNATION + GRADE APKT 060204 PDTR LT 3000
 CATALOG NUMBER M0004026

TECHNICAL SECTION

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MILLING

ODMT



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
ODMT 0504 ZZTR	LT 3000	0.80	8	-		p. 278	M0003399
ODMT 060508 TN	LT 3000	0.80	8	-		p. 279	M0002219

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
ODMT 0504 ZZTR	LT 30	0.80	8	-		p. 278	M0000664
ODMT 060508 TN	LT 30	0.80	8	-		p. 279	M0001104

ODMW



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
ODMW 060508 TN	LT 3000	0.80	8	-		p. 280	M0003400

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
ODMW 060508 TN	LT 30	0.80	8	-		p. 280	M0000451

MATERIAL GROUP			
 STEEL	 HIGH TEMP ALLOYS		
 STAINLESS STEEL	 HARDENED MATERIAL		
 CAST IRON	 ALU(>8%Si)		

COOLANT
 p. 357

ORDERING EXAMPLE	
QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION
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MILLING

O F E R


MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
OFER 070405 TN	LT 3000	0.80	8	-		p. 281	M0003401

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
OFER 070405 TN	LT 30	0.80	8	-		p. 281	M0000033

S E K N


MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SEKN 1203 AFTN	LT 3000	-	4	-		p. 294	M0004031
SEKN 1204 AFTN	LT 3000	-	4	-		p. 294	M0004032
SEKN 1504 AFTN	LT 3000	-	4	-		p. 295	M0004033

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SEKN 1203 AFTN	LT 30	-	4	-		p. 294	M0000041
SEKN 1204 AFTN	LT 30	-	4	-		p. 294	M0000042
SEKN 1504 AFTN	LT 30	-	4	-		p. 295	M0000045

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

COOLANT



ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



MILLING

SEKR



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SEKR 1203 AFTN	LT 3000	-	4	-		p. 294	M0004034
SEKR 1204 AFTN	LT 3000	-	4	-		p. 294	M0004035

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SEKR 1203 AFTN	LT 30	-	4	-		p. 294	M0000043
SEKR 1204 AFTN	LT 30	-	4	-		p. 294	M0000044

SDKT



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SDKT 1204 AETN	LT 3000	-	4	-		p. 290	M0003411

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SDKT 1204 AETN	LT 30	-	4	-		p. 290	M0000171

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8% Si)

COOLANT



p. 357

ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



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MILLING

SPUN



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SPUN 120308	LT 3000	0.80	4	-	  	p. 306	M0004039

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SPUN 120308	LT 30	0.80	4	-	  	p. 306	M0000050

SPKN



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SPKN 1203 EDTR	LT 3000	-	4	-	  	p. 299	M0004036
SPKN 1204 EDTR	LT 3000	-	4	-		p. 299	M0004181
SPKN 1504 EDTR	LT 3000	-	4	-		p. 299	M0004037

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SPKN 1203 EDTR	LT 30	-	4	-	  	p. 299	M0000046
SPKN 1204 EDTR	LT 30	-	4	-		p. 299	M0000047
SPKN 1504 EDTR	LT 30	-	4	-		p. 299	M0001673

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

COOLANT



ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



MILLING

S P K R



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SPKR 1203 EDTR	LT 3000	-	4	-		p. 300	M0004038
SPKR 1204 EDTR	LT 3000	-	4	-		p. 300	M0004182

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SPKR 1203 EDTR	LT 30	-	4	-		p. 300	M0000048
SPKR 1204 EDTR	LT 30	-	4	-		p. 300	M0000049

MATERIAL GROUP

STEEL	HIGH TEMP ALLOYS
STAINLESS STEEL	HARDENED MATERIAL
CAST IRON	ALU(>8%Si)

COOLANT



ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



MILLING

ANKX

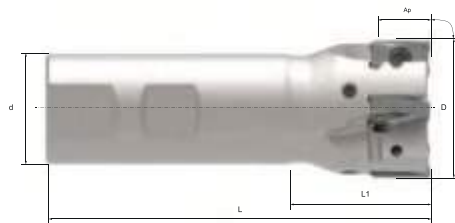


MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
ANKX 170608 PNTR	LT 3130	0.8	4	LT 787		P. 312	M0004025

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
ANKX 170608 PNTR	LT 3000	0.8	4	LT 787		p. 268	M0004467



END MILL - ANKX 170608 PNTR

DESIGNATION	D	d	L	L1	Ap	Z	CATALOG #
LT 787 W-D-D025/2	25	25	44	100	12	2	M2001787
LT 787 W-W-D032/3	32	32	50	110	12	3	M2001789
LT 787 W-W-D040/4	40	32	50	115	12	4	M2001792

SCREW M2000597
KEY M2000602

ANKX and cutter family LT 787 Available Q4 2019

MATERIAL GROUP	COOLANT	ORDERING EXAMPLE	TECHNICAL SECTION
 STEEL  STAINLESS STEEL  CAST IRON	 p. 357  HIGH TEMP ALLOYS  HARDENED MATERIAL  ALU(>8%Si)	QUANTITY 10 PIECES DESIGNATION + GRADE APKT 060204 PDTR LT 3000 CATALOG NUMBER M0004026	 p. 366 - 376

MILLING

APKT



MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
APKT 060204 PDTR	LT 3130	0.40	2	LT 752		p. 310	M0004468
APKT 100308 PDTR	LT 3130	0.80	2	LT 741		p. 312	M0004470
APKT 160408 PDTR	LT 3130	0.80	2	LT 731		p. 312	M0004471

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
APKT 060204 PDTR	LT 3000	0.40	2	LT 752		p. 260	M0004026
APKT 100304 PDTR	LT 3000	0.40	2	LT 741		p. 262	M0003389
APKT 100308 PDTR	LT 3000	0.80	2	LT 741		p. 263	M0003388
APKT 100312 PDTR	LT 3000	1.20	2	LT 741		p. 264	M0003391
APKT 100316 PDTR	LT 3000	1.60	2	LT 741		p. 265	M0003392
APKT 100332 PDTR	LT 3000	3.20	2	LT 745		p. 266	M0003394
APKT 100340 PDTR	LT 3000	4.00	2	LT 745		p. 267	M0003395
APKT 160408 PDTR	LT 3000	0.80	2	LT 731		p. 268	M0002182
APKT 160416 PDTR	LT 3000	1.60	2	LT 731		p. 269	M0004027
APKT 160424 PDTR	LT 3000	2.40	2	LT 731		p. 270	M0004029
APKT 160432 PDTR	LT 3000	3.20	2	LT 731		p. 271	M0004030
APKT 1705 PETR	LT 3000	0.80	2	LT 737		p. 272	M0002212

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

COOLANT



p. 357

ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



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MILLING

A D K T



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
ADKT 1505 PDTR	LT 3000	0.96	2	LT 790		p. 258	M0002209

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
ADKT 1505 PDTR	LT 30	0.96	2	LT 790		p. 258	M0001573

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

COOLANT



p. 357

ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



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MILLING

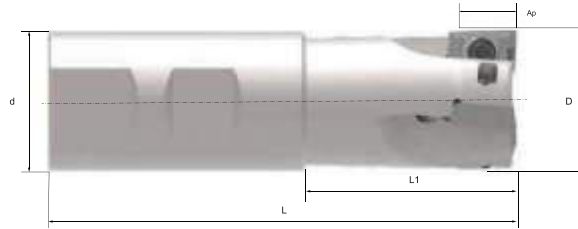
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ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
LDMT 1504 PDSR	LT 30	0.74	2	LT 770		p. 277	M0001772

CUTTERS LDMT



END MILL - LDMT 1504

DESIGNATION	D	d	L	L1	Ap	Z	α	CATALOG #
LT 770 W-W-D025/2*	25	25	100	44	15	2	5	M2001822
LT 770 W-W-D032/3*	32	35	110	50	15	3	3	M2001823
LT 770 W-W-D040/4*	40	32	115	45	15	4	2.5	M2001824

*On Request

SCREW KEY
M2001418
M2000602

MATERIAL GROUP	
 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si i)

COOLANT
 p. 357

ORDERING EXAMPLE
QUANTITY 10 PIECES
DESIGNATION + GRADE APKT 060204 PDTR LT 3000
CATALOG NUMBER M0004026

TECHNICAL SECTION
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MILLING

SPMT

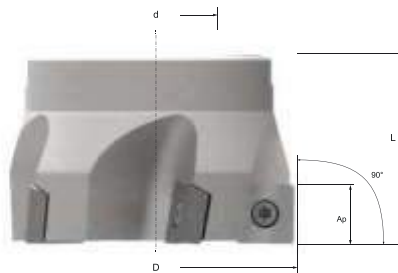


MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SPMT 12T308	LT 3000	0.80	4	LT 710		p. 304	M0003420

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SPMT 12T308	LT 30	0.80	4	LT 710		p. 304	M0001226



SHELL MILL - SPMT 12T308

DESIGNATION	D	d	L	Ap	Z	CATALOG #
LT 710 M-W-D050/4	50	22	40	10.7	4	M2004927
LT 710 M-W-D063/5	63	22	40	10.7	5	M2004928
LT 710 M-W-D080/7	80	27	50	10.7	7	M2004929
LT 710 M-W-D100/9	100	32	50	10.7	9	M2004930
LT 710 M-W-D125/11	125	40	63	10.7	11	M2004931

SCREW M2001418
KEY M2000602

MATERIAL GROUP	
 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

COOLANT

p. 357

ORDERING EXAMPLE
QUANTITY 10 PIECES
DESIGNATION + GRADE APKT 060204 PDTR LT 3000
CATALOG NUMBER M0004026

TECHNICAL SECTION

p. 366 - 376

MILLING

T P K N



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
TPKN 1603 PDTR	LT 3000	1.2	3	-		p. 306	M0004040
TPKN 2204 PDTR	LT 3000	1.2	3	-		p. 306	M0004041

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
TPKN 1603 PDTR	LT 30	1.2	3	-		p. 306	M0000051
TPKN 2204 PDTR	LT 30	1.2	3	-		p. 306	M0000052

T P K R



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
TPKR 1603 PDTR	LT 3000	1.20	3	-		p. 307	M0004042
TPKR 2204 PDTR	LT 3000	1.20	3	-		p. 308	M0004043

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
TPKR 1603 PDTR	LT 30	1.20	3	-		p. 307	M0000053
TPKR 2204 PDTR	LT 30	1.20	3	-		p. 308	M0000983

MATERIAL GROUP			
 STEEL	 HIGH TEMP ALLOYS		
 STAINLESS STEEL	 HARDENED MATERIAL		
 CAST IRON	 ALU(>8%Si)		

COOLANT
 p. 357

ORDERING EXAMPLE	
QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION
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MILLING

TPUN



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
TPUN 160308	LT 3000	0.80	3	-	  	p. 309	M0004044

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
TPUN 160308	LT 30	0.80	3	-	  	p. 309	M0000054

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

COOLANT



ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



MILLING

A O M T



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
AOMT 123608 PETR	LT 3000	0.70	2	-		p. 259	M0002210

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
AOMT 123608 PETR	LT 30	0.70	2	-		p. 259	M0001640

A P M T



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
APMT 0903 PDTR	LT 3000	0.40	2	-		p. 263	M0004161
APMT 1135 PDTR	LT 3000	0.70	2	-		p. 274	M0002216
APMT 1604 PDTR	LT 3000	0.66	2	-		p. 275	M0002183
APMT 160408 PDTR	LT 3000	0.70	2	-		p. 275	M0002218

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
APMT 0903 PDTR	LT 30	0.40	2	-		p. 263	M0000663
APMT 1135 PDTR	LT 30	0.70	2	-		p. 274	M0001133
APMT 1604 PDTR	LT 30	0.66	2	-		p. 275	M0001134
APMT 160408 PDTR	LT 30	0.70	2	-		p. 275	M0001733

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8% Si)

COOLANT



ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



MILLING

S D K W


MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SDKW 0904-HF	LT 3130	2.0	4	LT 902		p. 321	M0004482
SDKW 1205-HF	LT 3130	2.5	4	LT 903		p. 321	M0004483

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SDKW 0904-HF	LT 3000	2.0	4	LT 902	  	p. 291	M0004263
SDKW 1205-HF	LT 3000	2.5	4	LT 903		p. 291	M0004224

S D K X


MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SDKX 0904-HF	LT 3130	2.0	4	LT 902	 	p. 320	M0004484
SDKX 1205-HF	LT 3130	2.5	4	LT 903		p. 320	M0004485

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SDKX 0904-HF	LT 3000	2.0	4	LT 902	    	p. 292	M0003412
SDKX 1205-HF	LT 3000	2.5	4	LT 903		p. 293	M0003413

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU (>8%Si)

COOLANT



ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



MILLING

X P K T



MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
XPKT 0602-HF	LT 3130	1.20	2	LT 910		p. 310	M0005548

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
XPKT 0602-HF	LT 3000	1.20	2	LT 910		p. 261	M0005549

X P K W



MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
XPKW 0602-HF	LT 3130	1.20*	2	LT 910		p. 311	M0005544

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
XPKW 0602-HF	LT 3000	1.20	2	LT 910		p. 273	M0005545

* XPKT, XPKW and cutter family LT 910 Available Q4 2019

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU (>8%Si)

COOLANT



ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



MILLING

R D M T



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
RDMT 0602 M0	LT 3000	3	-	LT 060		p. 283	M0003403
RDMT 0702 M0	LT 3000	3.5	-	LT 070		p. 284	M0003404
RDMT 0803 M0	LT 3000	4	-	LT 080		p. 285	M0003405
RDMT 1003 M0	LT 3000	5	-	-		p. 286	M0002224
RDMT 10T3 M0	LT 3000	5	-	LT 100		p. 286	M0002225
RDMT 1204 M0	LT 3000	6	-	LT 120		p. 287	M0002226
RDMT 12T3 M0	LT 3000	6	-	-		p. 287	M0002227
RDMT 1604 M0	LT 3000	8	-	LT 160		p. 288	M0003407

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
RDMT 0602 M0	LT 30	3	-	LT 060		p. 283	M0000035
RDMT 0702 M0	LT 30	3.5	-	LT 070		p. 284	M0001882
RDMT 0803 M0	LT 30	4	-	LT 080		p. 285	M0000037
RDMT 1003 M0	LT 30	5	-	-		p. 286	M0001875
RDMT 10T3 M0	LT 30	5	-	LT 100		p. 286	M0000038
RDMT 1204 M0	LT 30	6	-	LT 120		p. 287	M0000039
RDMT 12T3 M0	LT 30	6	-	-		p. 287	M0001876
RDMT 1604 M0	LT 30	8	-	LT 160		p. 288	M0001881

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

COOLANT



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ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



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MILLING

R D M W


MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
RDMW 1003 M0	LT 3000	5	-	-		p. 289	M0004424
RDMW 10T3 M0	LT 3000	5	-	LT 100		p. 289	M0002228
RDMW 1204 M0	LT 3000	6	-	LT 120		p. 289	M0003408
RDMW 12T3 M0	LT 3000	6	-	-		p. 289	M0004425

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
RDMW 1003 M0	LT 30	5	-	-		p. 289	M0004452
RDMW 10T3 M0	LT 30	5	-	LT 100		p. 289	M0001550
RDMW 1204 M0	LT 30	6	-	LT 120		p. 289	M0001551
RDMW 12T3 M0	LT 30	6	-	-		p. 289	M0004453

R D M X


MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
RDMX 1003 M0	LT 3000	5	-	-		p. 286	M0004426
RDMX 10T3 M0	LT 3000	5	-	LT 100		p. 286	M0003409
RDMX 1204 M0	LT 3000	6	-	LT 120		p. 287	M0003410
RDMX 12T3 M0	LT 3000	6	-	-		p. 287	M0004427

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
RDMX 1003 M0	LT 30	5	-	-		p. 286	M0004454
RDMX 10T3 M0	LT 30	5	-	LT 100		p. 286	M0001552
RDMX 1204 M0	LT 30	6	-	LT 120		p. 287	M0001553
RDMX 12T3 M0	LT 30	6	-	-		p. 287	M0004455

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU(>8%Si)

COOLANT



ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



MILLING

R X M T



MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
RXMT 10T3 M0	LT 3130	5	4	LT 101		p. 317	M0004476
RXMT 1204 M0	LT 3130	6	4	LT 121		p. 317	M0004477

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
RXMT 10T3 M0	LT 3000	5	4	LT 101		p. 286	M0004171
RXMT 1204 M0	LT 3000	6	4	LT 121		p. 287	M0004366

R X M W



MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
RXMW 10T3 M0	LT 3130	5	4	LT 101		p. 318	M0004478
RXMW 1204 M0	LT 3130	6	4	LT 121		p. 318	M0004479

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
RXMW 10T3 M0	LT 3000	5	4	LT 101		p. 289	M0004371
RXMW 1204 M0	LT 3000	6	4	LT 121		p. 289	M0004375

MATERIAL GROUP			
STEEL	HIGH TEMP ALLOYS	HARDENED MATERIAL	
STAINLESS STEEL		ALU(>8%Si)	
CAST IRON			

COOLANT
p. 357

ORDERING EXAMPLE
QUANTITY 10 PIECES
DESIGNATION + GRADE APKT 060204 PDTR LT 3000
CATALOG NUMBER M0004026

TECHNICAL SECTION
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MILLING

R X M X



MAGIA PRO

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
RXXM 10T3 M0	LT 3130	5	4	LT 101		p. 319	M0004480
RXXM1204 M0	LT 3130	6	4	LT 121		p. 319	M0004481

MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
RXXM 10T3 M0	LT 3000	5	4	LT 101		p. 286	M0004373
RXXM1204 M0	LT 3000	6	4	LT 121		p. 287	M0004377

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU (>8%Si)

COOLANT



ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



S P M T



MAGIA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SPMT 060304 TN	LT 3000	0.40	4	LT 400		p. 301	M0003416
SPMT 09T308 TN	LT 3000	0.80	4	LT 400		p. 302	M0003417
SPMT 120408 TN	LT 3000	0.80	4	LT 400		p. 303	M0003419

ALPHA

DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SPMT 060304 TN	LT 30	0.40	4	LT 400		p. 301	M0003100
SPMT 09T308 TN	LT 30	0.80	4	LT 400		p. 302	M0003063
SPMT 120408 TN	LT 30	0.80	4	LT 400		p. 303	M0003105

MATERIAL GROUP

 STEEL	 HIGH TEMP ALLOYS
 STAINLESS STEEL	 HARDENED MATERIAL
 CAST IRON	 ALU (>8%Si)

COOLANT



ORDERING EXAMPLE

QUANTITY	10 PIECES
DESIGNATION + GRADE	APKT 060204 PDTR LT 3000
CATALOG NUMBER	M0004026

TECHNICAL SECTION



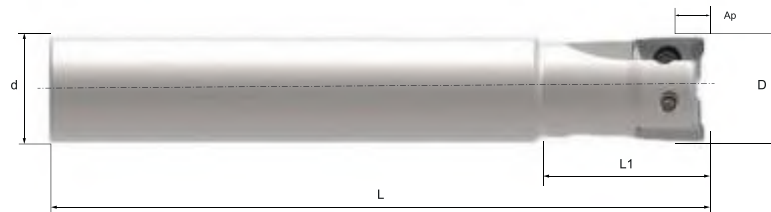
ALU MILLING

APGT



DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #	
APGT 100304 PDER -	ALU	LT 05	0.4	2	LT 741		p. 324	M0003089
APGT 160408 PDER -	ALU	LT 05	0.8	2	LT 731		P. 324	M0001010

CUTTERS APTG



END MILL - APTG 100304 PDER

DESIGNATION	D	d	L	L1	Ap	Z	α	CATALOG #
LT 741 C-W-D016/2	16	16	100	25	9	2	12	M2002806
LT 741 CL-W-D016/2	16	16	150	35	9	2	12	M2002817
LT 741 C-W-D018/2	18	20	100	30	9	2	12	M2002807
LT 741 C-W-D020/3	20	20	100	30	9	3	7	M2002808
LT 741 CL-W-D020/3	20	20	150	35	9	3	7	M2002818
LT 741 C-W-D022/3	22	20	100	30	9	3	7	M2002809
LT 741 C-W-D025/3	25	25	120	30	9	3	5	M2002810
LT 741 CL-W-D025/4	25	25	200	40	9	4	5	M2002819
LT 741 C-W-D025/4	25	25	120	30	9	4	5	M2002811
LT 741 C-W-D028/4	28	25	120	30	9	4	2	M2002812
LT 741 C-W-D030/4	30	25	120	30	9	4	2	M2002813
LT 741 W-W-D032/5	32	32	120	30	9	5	3	M2002814
LT 741 WL-W-D032/4	32	32	200	40	9	4	3	M2002820

SCREW KEY M2002181
M2000601

MATERIAL GROUP
 STEEL
 STAINLESS STEEL
 CAST IRON

HIGH TEMP ALLOYS
 HARDENED MATERIAL
 ALU (>8%Si)

COOLANT

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ORDERING EXAMPLE
 QUANTITY 10 PIECES
 DESIGNATION + GRADE APKT 060204 PDTR LT 3000
 CATALOG NUMBER M0004026

TECHNICAL SECTION

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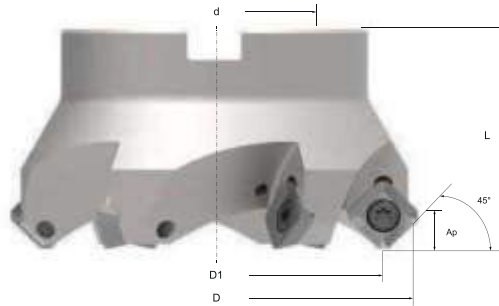
ALU MILLING

S E G T



DESIGNATION	GRADE	RADIUS (mm)	CUTTING EDGES	CUTTER LINE	MATERIAL RECOMMENDATION	CUTTING DATA	CATALOG #
SEGT 1204 AFEN - ALU	LT 05	0.84	4	LT 600		p. 324	M0001008

CUTTERS SEGT



SHELL MILL - SEGT 1204 AFEN-ALU

DESIGNATION	D	D1	d	L	Ap	Z	α	CATALOG #
LT 600 M-W-D040/3	53	40	16	40	6	3	10	M2000546
LT 600 M-W-D050/4	63	50	22	48	6	4	8	M2000547
LT 600 M-W-D063/5	76	63	22	48	6	5	6	M2000548
LT 600 M-W-D080/6	93	80	27	50	6	6	4.5	M2000549
LT 600 M-W-D100/6	113	100	32	50	6	6	3.5	M2000550
LT 600 M-W-D125/7	138	125	40	63	6	7	3	M2000551
LT 600 M-D-D160/8	173	160	40	63	6	8	2.2	M2000552

SCREW M2000599
KEY M2000603

MATERIAL GROUP

- STEEL
- STAINLESS STEEL
- CAST IRON
- HIGH TEMP ALLOYS
- HARDENED MATERIAL
- ALU(>8%Si)

COOLANT



p. 357

ORDERING EXAMPLE

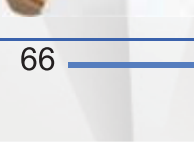
QUANTITY 10 PIECES
DESIGNATION + GRADE APKT 060204 PDTR LT 3000
CATALOG NUMBER M0004026

TECHNICAL SECTION



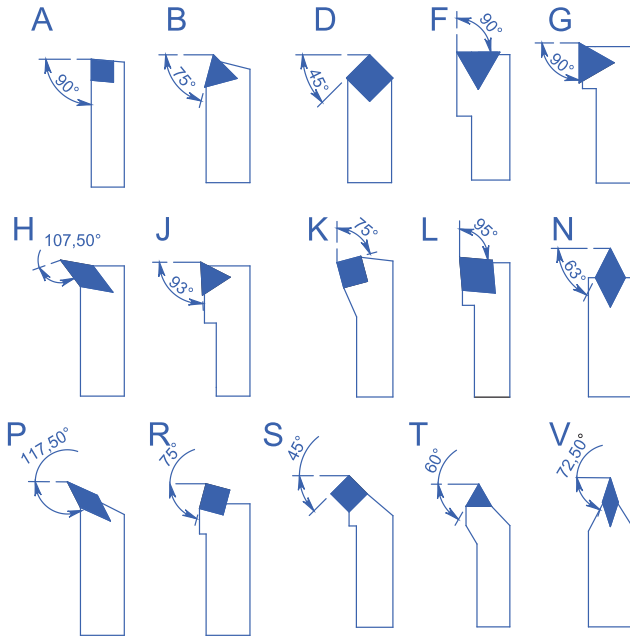
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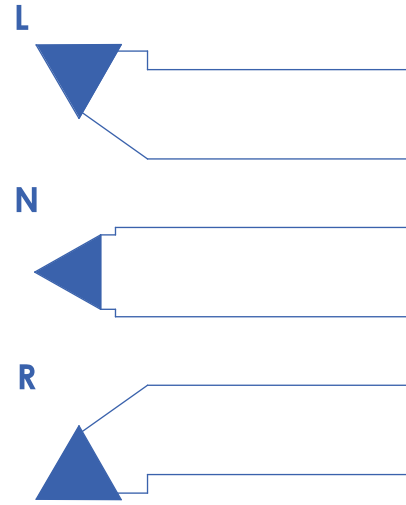
	▶ DIŞ KANAL KATERLERİ EXTERNAL GROOVING TOOLHOLDERS Sayfa / Page : 72-77		▶ ŞAFTLI TARAMALAR MILLING TOOLS Sayfa / Page : 117-149
	▶ DIŞ KANAL KATERLERİ OTOMAT EXTERNAL GROOVING TOOLHOLDERS AUTOMAT Sayfa / Page : 78		▶ ŞAFTLI TARAMALAR HIGH FEED MILLING TOOLS HIGH FEED Sayfa / Page : 150-161
	▶ İÇ KANAL KATERLERİ INTERNAL GROOVING TOOLHOLDERS Sayfa / Page : 79-82		▶ HIGH FEED FINISH TAKIMLARI HIGH FEED FINISH TOOLS Sayfa / Page : 162-164
	▶ S-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ S-SYSTEM EXTERNAL TURNING TOOLHOLDERS Sayfa / Page : 83-91		▶ FREZELEME TAKIMLARI FACE MILLING Sayfa / Page : 165-168
	▶ C-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ C-SYSTEM EXTERNAL TURNING TOOLHOLDERS Sayfa / Page : 92-93		▶ TARAMA KAFALARI FACE MILLING Sayfa / Page : 169-205
	▶ T-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ T-SYSTEM EXTERNAL TURNING TOOLHOLDERS Sayfa / Page : 94-101		▶ HIGH FEED TARAMA KAFALARI HIGH FEED MILLINGS Sayfa / Page : 206-217
	▶ M-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ M-SYSTEM EXTERNAL TURNING TOOLHOLDERS Sayfa / Page : 102-103		▶ VİDALI TARAMALAR SCREW TYPE Sayfa / Page : 208-237
	▶ S-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ S-SYSTEM INTERNAL TURNING TOOLHOLDERS Sayfa / Page : 104-109		▶ U-DRILLER U-DRILLS Sayfa / Page : 238-246
	▶ C-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ C-SYSTEM INTERNAL TURNING TOOLHOLDERS Sayfa / Page : 110-111		▶ KATERLER CUTTING TOOLS Sayfa / Page : 247-249
	▶ T-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ T-SYSTEM INTERNAL TURNING TOOLHOLDERS Sayfa / Page : 112-114		▶ YEDEK PARÇALAR SPARE PARTS Sayfa / Page : 250-253
	▶ M-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ M-SYSTEM INTERNAL TURNING TOOLHOLDERS Sayfa / Page : 115-116		



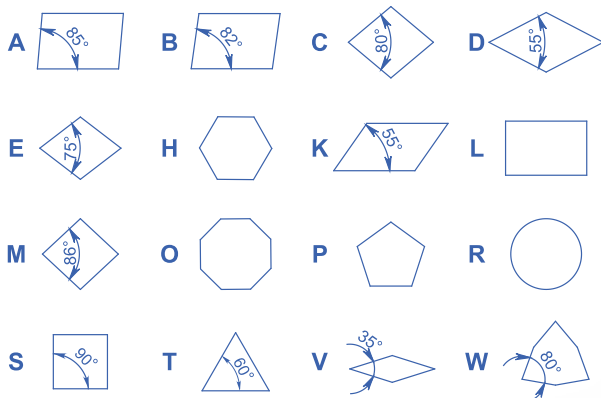
► **Takım Tipi / Tool Type**



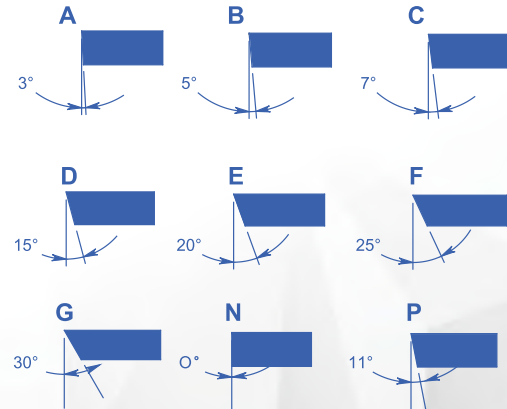
► **Kesme Yönü / Cutting Directions**



► **Uç Şekli / Insert Form**

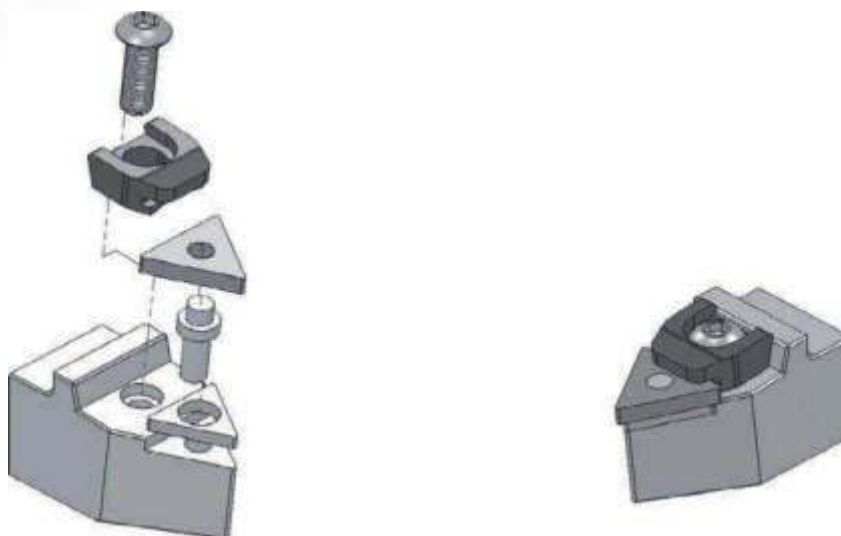


► **Uç Kenar Boşluk Açısı / Clearance Angle of Insert**

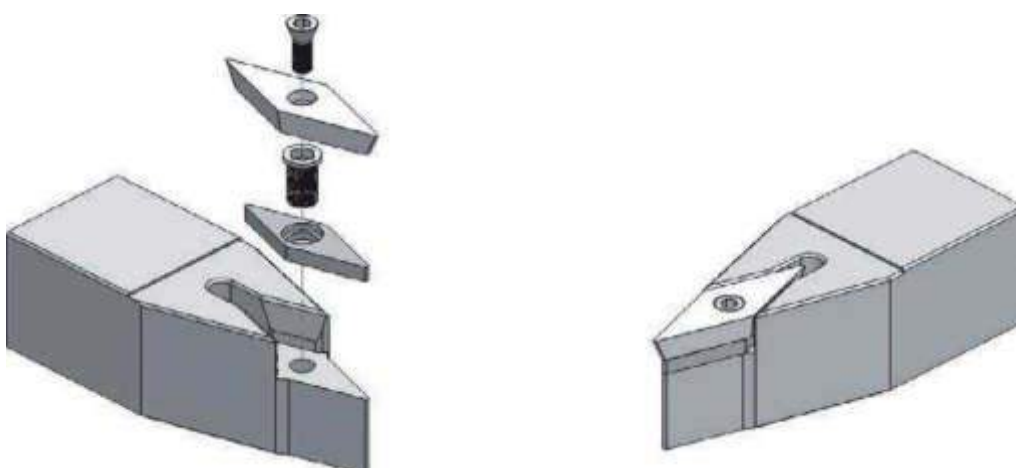




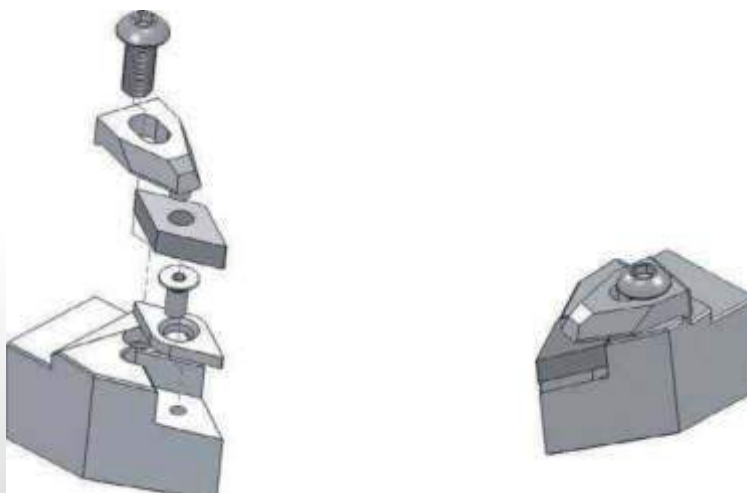
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► **S Sistem / S System**



► **T Sistem / T System**



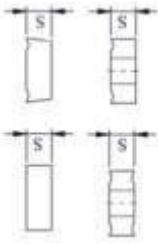
— www.sapphiretools.ru —



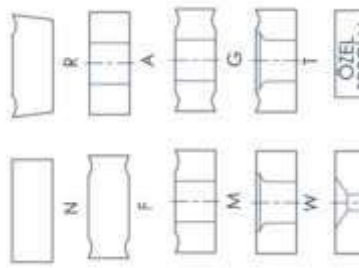
7	UÇ RADİÜSÜ Chamfer or corner radius Plattense oder Eckradius
SEMBOL	R
00	0
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
24	2.4
32	3.2



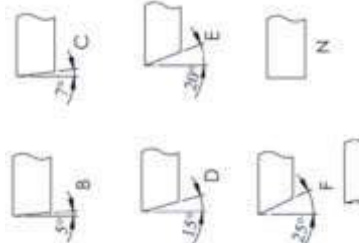
6	UÇ KALINLIĞI Height of cutting edge Schneidkantenhöhe
SEMBOL	S
01	1.59
T1	1.98
02	2.38
03	3.18
T3	3.97
04	4.76
05	5.56
06	6.35
07	7.94
09	9.52



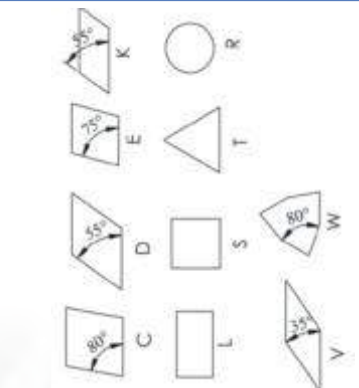
4	KESİCİ UÇ DELİK TİPİ Type of insert Plattentyp
---	--



2	UÇ AÇISI Clearance Angle Fräswinkel
---	---



1	KESİCİ UÇ TİPİ Shape Plattentform
---	---



8 9
H R

7 08

6 06

5 15

4 G

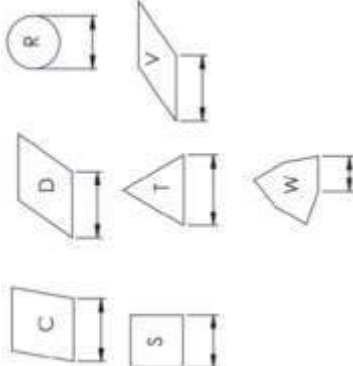
3 M

2 N

1 D

8-9	KESME KENARI ŞEKLİ Insert Forms WSP-Form
	UÇ FORMLARI Insert Forms WSP-Form

5	KESME KENARI UZUNLUĞU Length of Cutting edge Schneiden länge
---	--



3		UÇ TOLERANSLARI Tolerance Toleranz		
SEMBOL Shape Plattenform	m (±)	S (±)	d (±)	
A	0.005	0.025	0.025	
F	0.005	0.025	0.013	
C	0.013	0.025	0.025	
H	0.013	0.025	0.013	
E	0.025	0.025	0.025	
G	0.025	0.130	0.025	
J	0.005	0.025	0.05 - 0.013	
K	0.013	0.025	0.05 - 0.013	
L	0.025	0.025	0.05 - 0.013	
M	0.08 - 0.18	0.130	0.05 - 0.013	
N	0.08 - 0.18	0.025	0.05 - 0.013	
U	0.05 - 0.38	0.130	0.08 - 0.025	



DIŞ KANAL KATERLERİ
EXTERNAL GROOVING TOOLHOLDERS



DIŞ KANAL KATERLERİ / EXTERNAL GROOVING TOOLHOLDERS



L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

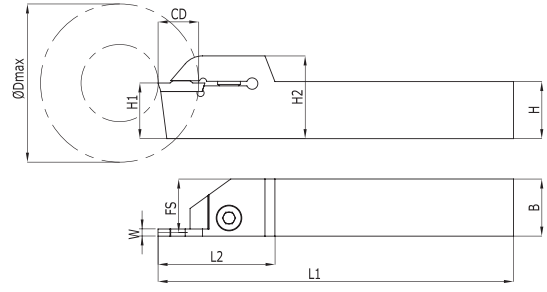
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SAPPHIRE
CUTTING TOOLS

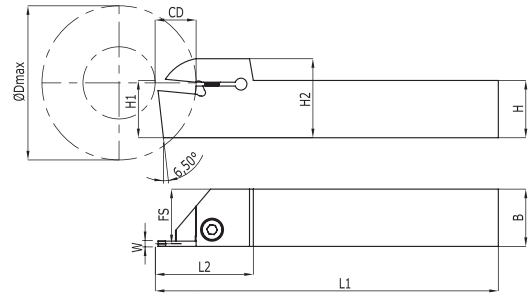
DIŞ KANAL KATERLERİ
EXTERNAL GROOVING TOOLHOLDERS

► **DKT I**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock															
DGN ISCR	R	L	Dmax	W	H	B	FS	L1	L2	H1	H2	CD	Uç Insert	Vida Screw	Anahtar Allen Key	
DKT I 001 DGN	✓	✓	62	2	12	12	11	90	31	12	24	16	DGN-2	M5X16	A4	
DKT I 002 DGN	✓	✓	62	2	16	16	15	125	43	16	28,5	16		M6X26		
DKT I 003 DGN	✓	✓	62	2	20	20	19	125	43	20	28,5	18		DGN-3		M5X16
DKT I 004 DGN	✓	✓	62	2	25	25	24	150	47	25	35	22				M6X26
DKT I 005 DGN	✓	✓	62	3	12	12	10,5	90	31	12	24	18				
DKT I 006 DGN	✓	✓	62	3	16	16	14,5	125	43	16	28,5	18				
DKT I 007 DGN	✓	✓	62	3	20	20	18,5	125	43	20	28,5	18				
DKT I 008 DGN	✓	✓	62	3	25	25	23,5	150	47	25	35	22				
DKT I 009 DGN	✓	✓	62	3	32	32	30,5	170	47	32	42	22				
DKT I 010 DGN	✓	✓	62	4	16	16	14	125	43	16	28,5	18				
DKT I 011 DGN	✓	✓	62	4	20	20	18	125	43	20	28,5	18				
DKT I 012 DGN	✓	✓	62	4	25	25	23	150	47	25	35	22				
DKT I 013 DGN	✓	✓	62	4	32	32	30	170	47	32	42	22				
DKT I 014 DGN	✓	✓	62	5	20	20	17,5	125	43	20	28,5	18				
DKT I 015 DGN	✓	✓	62	5	25	25	22,5	150	47	25	35	22				
DKT I 016 DGN	✓	✓	62	5	32	32	29,5	170	47	32	42	22				
DKT I 017 DGN	✓	✓	62	6	25	25	22,5	150	47	25	35	22				
DKT I 018 DGN	✓	✓	62	6	32	32	29,5	170	47	32	42	22				
DKT I 019 DGN	✓	✓	62	3	25	25	23,5	150	47	25	35	40				
DKT I 020 DGN	✓	✓	62	4	25	25	23	150	47	25	35	40				

► **DKT H**

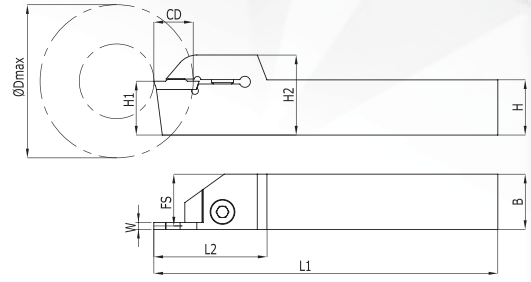


Kesici Uç Uyumluluğu Insert Suitability			Stok Stock													
S229 HRN	R	L	Dmax	W	H	B	FS	L1	L2	H1	H2	CD	Uç Insert	Vida Screw	Anahtar Allen Key	
DKT H 001 S229	✓	✓	62	3	16	16	14,5	125	46	16	24	17	S229-3	M6X26	A4	
DKT H 002 S229	✓	✓	62	3	20	20	18,5	125	46	20	28,5	22				
DKT H 003 S229	✓	✓	62	3	25	25	23,5	150	46	25	35	23				
DKT H 004 S229	✓	✓	62	3	32	32	30,5	170	46	32	42	24	S229-4			
DKT H 005 S229	✓	✓	62	4	20	20	18	125	46	20	28,5	22				
DKT H 006 S229	✓	✓	62	4	25	25	23	150	46	25	35	23				
DKT H 007 S229	✓	✓	62	4	32	32	30	170	46	32	42	24	S229-5			
DKT H 008 S229	✓	✓	62	5	20	20	17,5	125	46	20	28,5	22				
DKT H 009 S229	✓	✓	62	5	25	25	22,5	150	46	25	35	23				
DKT H 010 S229	✓	✓	62	5	32	32	27,5	170	46	32	42	24	S229-6			
DKT H 011 S229	✓	✓	62	6	25	25	22	150	46	25	35	23				

DIŞ KANAL KATERLERİ EXTERNAL GROOVING TOOLHOLDERS

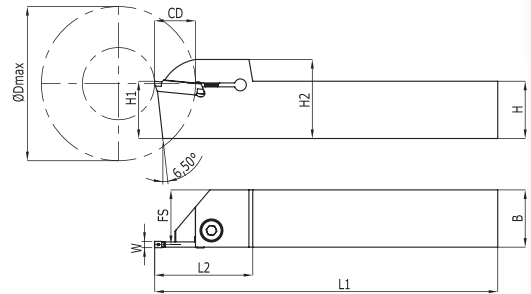


► DKT K



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock																
MGM. KRLY	R	L	Dmax	W	H	B	FS	L1	L2	H1	H2	CD	Uç Insert	Vida Screw	Anahtar Allen Key		
DKT K 001 MGM.	✓	✓	62	2	12	12	11	90	31	12	24	16	MGM.2	M5x16	A4		
DKT K 002 MGM.	✓	✓	62	2	16	16	15	125	41	16	28,5	17		M6X26			
DKT K 003 MGM.	✓	✓	62	2	20	20	19	125	41	20	28,5	17				M5x16	
DKT K 004 MGM.	✓	✓	62	2	25	25	24	150	45	25	35	18					MGM.3
DKT K 005 MGM.	✓	✓	62	2	32	32	31	170	45	32	42	21					
DKT K 006 MGM.	✓	✓	62	3	12	12	10,5	90	31	12	24	16	MGM.3				
DKT K 007 MGM.	✓	✓	62	3	16	16	14,5	125	41	16	28,5	21		MGM.3			
DKT K 008 MGM.	✓	✓	62	3	20	20	18,5	125	41	20	28,5	21				MGM.3	
DKT K 009 MGM.	✓	✓	62	3	25	25	23,5	150	45	25	35	21					MGM.3
DKT K 010 MGM.	✓	✓	62	3	32	32	30,5	170	45	32	42	22					
DKT K 011 MGM.	✓	✓	62	4	16	16	14	125	41	16	28,5	21	MGM.4				
DKT K 012 MGM.	✓	✓	62	4	20	20	18	125	41	20	28,5	21		M6X26			
DKT K 013 MGM.	✓	✓	62	4	25	25	23	150	45	25	35	21				MGM.4	
DKT K 014 MGM.	✓	✓	62	4	32	32	30	170	45	32	42	21					MGM.5
DKT K 015 MGM.	✓	✓	62	5	20	20	17,5	125	41	20	28,5	21					
DKT K 016 MGM.	✓	✓	62	5	25	25	22,5	150	45	25	35	22	MGM.5				
DKT K 017 MGM.	✓	✓	62	5	32	32	29,5	170	45	32	42	22		MGM.6			
DKT K 018 MGM.	✓	✓	62	6	25	25	22	150	45	25	35	23				MGM.6	
DKT K 019 MGM.	✓	✓	62	6	32	32	29	170	45	32	42	23					MGM.6
DKT K 023 MGM.	✓	✓	62	4	25	25	23	150	45	25	35	40					
DKT K 030 MGM.	✓	✓	62	3	25	25	23,5	150	45	25	35	40	MGM.3				

► DKT HK



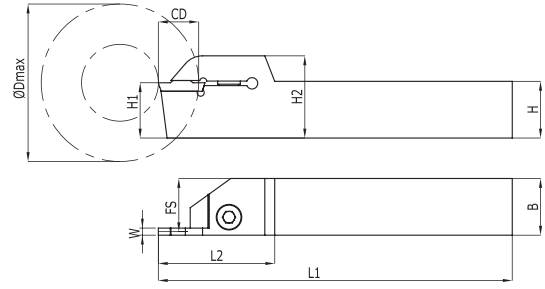
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock																		
S224 HRN	R	L	Dmax	W	H	B	FS	L1	L2	H1	H2	CD	Uç Insert	Vida Screw	Anahtar Allen Key				
DKT HK 001 S224	✓	✓	62	2	16	16	15	125	43	16	28	18	S224-2	M6X26	A4				
DKT HK 002 S224	✓	✓	62	2	20	20	19	125	43	20	28	18							
DKT HK 003 S224	✓	✓	62	2	25	25	24	150	43	25	35	21							
DKT HK 004 S224	✓	✓	62	3	16	16	14,5	125	43	16	28	18	S224-3			M6X26	A4		
DKT HK 005 S224	✓	✓	62	3	20	20	18,5	125	43	20	28	18							
DKT HK 006 S224	✓	✓	62	3	25	25	23,5	150	43	25	35	21							
DKT HK 007 S224	✓	✓	62	3	32	32	30,5	170	46	32	42	24	S224-4					M6X26	A4
DKT HK 008 S224	✓	✓	62	4	16	16	14	125	43	16	28	18							
DKT HK 009 S224	✓	✓	62	4	20	20	18	125	43	20	28	18							
DKT HK 010 S224	✓	✓	62	4	25	25	23	150	43	25	35	21							
DKT HK 011 S224	✓	✓	62	4	32	32	30	170	46	32	42	24							



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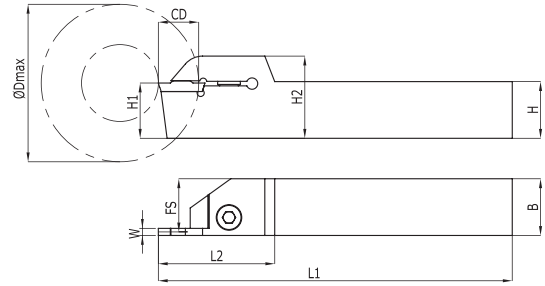
DIŞ KANAL KATERLERİ EXTERNAL GROOVING TOOLHOLDERS

► DKT TT



Kesici Uç Uyumluluğu Insert Suitability													Stok Stock																	
TD.. TGTC	R	L	Dmax	W	H	B	FS	L1	L2	H1	H2	CD	Uç Insert	Vida Screw	Anahtar Allen Key															
DKT TT 001 TD..	✓	✓	62	2	12	12	11	90	31	12	24	16	TD.. 2	M5x16	A4															
DKT TT 002 TD..	✓	✓	62	2	16	16	15	125	41	16	28,5	17		M6X26																
DKT TT 003 TD..	✓	✓	62	2	20	20	19	125	41	20	28,5	17																		
DKT TT 004 TD..	✓	✓	62	2	25	25	24	150	45	25	35	18																		
DKT TT 005 TD..	✓	✓	62	3	12	12	10,5	90	31	12	24	16	TD.. 3	M5x16																
DKT TT 006 TD..	✓	✓	62	3	16	16	14,5	125	41	16	28,5	21		M6X26																
DKT TT 007 TD..	✓	✓	62	3	20	20	18,5	125	41	20	28,5	21																		
DKT TT 008 TD..	✓	✓	62	3	25	25	23,5	150	45	25	35	21																		
DKT TT 009 TD..	✓	✓	62	3	32	32	30,5	170	45	32	42	22	TD.. 4																	
DKT TT 010 TD..	✓	✓	62	4	16	16	14	125	41	16	28,5	21		M6X26																
DKT TT 011 TD..	✓	✓	62	4	20	20	18	125	41	20	28,5	21																		
DKT TT 012 TD..	✓	✓	62	4	25	25	23	150	45	25	35	21																		
DKT TT 013 TD..	✓	✓	62	4	32	32	30	170	45	32	42	21	TD.. 5	M6X26																
DKT TT 014 TD..	✓	✓	62	5	25	25	22,5	150	45	25	35	21																		

► DKT ZCC2

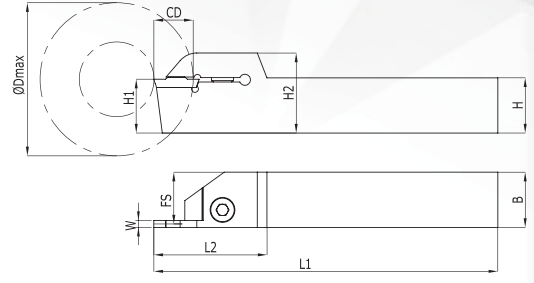


Kesici Uç Uyumluluğu Insert Suitability													Stok Stock				
ZCC ZT.D	R	L	Dmax	W	H	B	FS	L1	L2	H1	H2	CD	Uç Insert	Vida Screw	Anahtar Allen Key		
DKT ZCC2 001 ZT.D	✓	✓	62	2	20	20	19	125	41	20	28,5	17	ZT.D 2	M6X26	A4		
DKT ZCC2 002 ZT.D	✓	✓	62	2	25	25	24	150	45	25	35	21					
DKT ZCC2 003 ZT.D	✓	✓	62	2,5	16	16	14,75	125	41	16	24,5	17	ZT.D 2,5				
DKT ZCC2 004 ZT.D	✓	✓	62	2,5	20	20	18,75	125	41	20	28,5	17					
DKT ZCC2 005 ZT.D	✓	✓	62	2,5	25	25	23,75	150	45	25	35	21	ZT.D 3				
DKT ZCC2 006 ZT.D	✓	✓	62	3	16	16	14,5	125	41	16	24,5	21					
DKT ZCC2 007 ZT.D	✓	✓	62	3	20	20	18,5	125	41	20	28,5	21					
DKT ZCC2 008 ZT.D	✓	✓	62	3	25	25	23,5	150	45	25	35	21					
DKT ZCC2 009 ZT.D	✓	✓	62	4	16	16	14	125	41	16	24,5	21	ZT.D 4				
DKT ZCC2 010 ZT.D	✓	✓	62	4	20	20	18	125	41	20	28,5	21					
DKT ZCC2 011 ZT.D	✓	✓	62	4	25	25	23	150	45	25	35	21					
DKT ZCC2 012 ZT.D	✓	✓	62	4	32	32	30	170	45	32	42	23					
DKT ZCC2 013 ZT.D	✓	✓	62	5	16	16	13,5	125	41	16	24,5	21	ZT.D 5				
DKT ZCC2 014 ZT.D	✓	✓	62	5	20	20	17,5	125	41	20	28,5	21					
DKT ZCC2 015 ZT.D	✓	✓	62	5	25	25	22,5	150	45	25	35	21					
DKT ZCC2 016 ZT.D	✓	✓	62	5	32	32	29,5	170	45	32	42	23					
DKT ZCC2 017 ZT.D	✓	✓	62	6	20	20	17	125	41	20	28,5	21	ZT.D 6				
DKT ZCC2 018 ZT.D	✓	✓	62	6	25	25	22	150	45	25	35	21					
DKT ZCC2 019 ZT.D	✓	✓	62	6	32	32	29	170	45	32	42	23					
DKT ZCC2 020 ZT.D	✓	✓	62	2,5	20	20	18,75	125	41	20	28,5	22	ZT.D 2,5				

DIŞ KANAL KATERLERİ EXTERNAL GROOVING TOOLHOLDERS

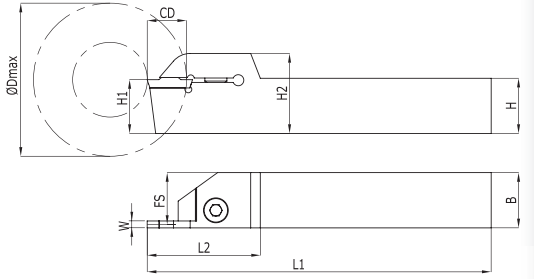


► DKT KYC



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
KYC-GDM	R	L	Dmax	W	H	B	FS	L1	L2	H1	H2	CD	Uç Insert	Vida Screw	Anahtar Allen Key
DKT KY 001 GDM	✓	✓	62	2	12	12	11	125	41	12	20,5	17	GDM.2	M6X26	A4
DKT KY 002 GDM	✓	✓	62	2	16	16	15	125	41	16	24,5	17			
DKT KY 003 GDM	✓	✓	62	2	20	20	19	125	41	20	28,5	17			
DKT KY 004 GDM	✓	✓	62	2	25	25	24	150	45	25	35	18			
DKT KY 005 GDM	✓	✓	62	3	12	12	10,5	125	41	12	20,5	17	GDM.3		
DKT KY 006 GDM	✓	✓	62	2	16	16	15	125	41	16	24,5	17			
DKT KY 007 GDM	✓	✓	62	3	20	20	18,5	125	43	20	28,5	18			
DKT KY 008 GDM	✓	✓	62	3	25	25	23,5	150	45	25	35	21			
DKT KY 009 GDM	✓	✓	62	4	16	16	15	125	41	16	24,5	17	GDM.4		
DKT KY 010 GDM	✓	✓	62	2	20	20	19	125	41	20	28,5	17	GDM.2		
DKT KY 011 GDM	✓	✓	62	2	25	25	24	150	45	25	35	10			
DKT KY 012 GDM	✓	✓	62	3	25	25	23,5	150	45	25	35	25	GDM.3		
DKT KY 013 GDM	✓	✓	62	4	25	25	23	150	45	25	35	25	GDM.4		

► DKT SND



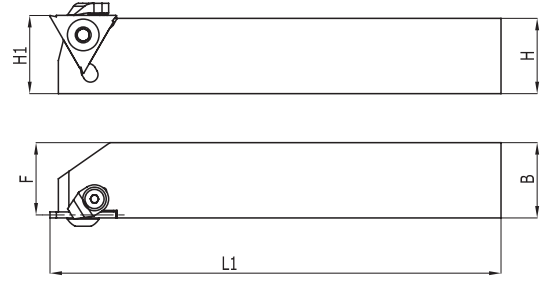
															
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ZCC ZT.D	R	L	Dmax	W	H	B	FS	L1	L2	H1	H2	CD	Uç Insert	Vida Screw	Anahatar Allen Key
DKT SND 004 N123	✓	✓	62	2	25	25	24	150	45	25	35	21	N123-2C	M6X26	A4
DKT SND 007 N123	✓	✓	62	3	20	20	18,5	125	41	20	28,5	21	N123-3C		
DKT SND 008 N123	✓	✓	62	3	25	25	23,5	150	45	25	35	21	N123-4C		
DKT SND 011 N123	✓	✓	62	4	20	20	18	125	41	20	28,5	21			
DKT SND 012 N123	✓	✓	62	4	25	25	23	150	45	25	35	21	N123-5C		
DKT SND 014 N123	✓	✓	62	5	20	20	17,5	125	41	20	28,5	21			
DKT SND 015 N123	✓	✓	62	5	25	25	22,5	150	45	25	35	21			
DKT SND 016 N123	✓	✓	62	5	32	32	29,5	170	45	32	42	23	N123-1,5C		
DKT SND 019 N123	✓	✓	62	1,5	25	25	24,25	150	45	25	35	21			



SAPPHIRE
CUTTING TOOLS

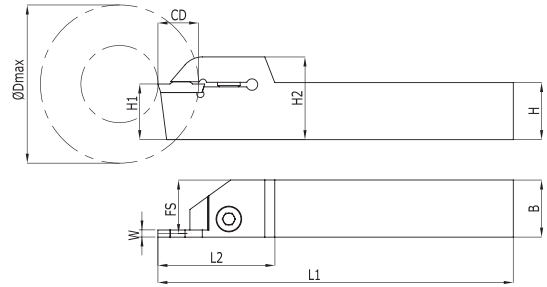
DİŞ KANAL KATERLERİ
EXTERNAL GROOVING TOOLHOLDERS

► **DKT H360**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	H1	H	B	F	L1	L2	λS	Y0	Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key	Anahtar Allen Key
HRN S312															
DKT H 360 001 S312	✓	16	16	15,5	125	-	0	0	0	S312-1	M5X12 A3	C110105	M4X10	T15	A3
DKT H 360 002 S312	✓	20	20	19,5	125	-	0	0	0	S312-1					
DKT H 360 003 S312	✓	25	25	24,5	150	-	0	0	0	S312-1					
DKT H 360 004 S312	✓	16	16	15	125	-	0	0	0	S312-2					
DKT H 360 005 S312	✓	20	20	19	125	-	0	0	0	S312-2					
DKT H 360 006 S312	✓	25	25	24	150	-	0	0	0	S312-2					
DKT H 360 007 S312	✓	16	16	14,5	125	-	0	0	0	S312-3					
DKT H 360 008 S312	✓	20	20	18,5	125	-	0	0	0	S312-3					
DKT H 360 009 S312	✓	25	25	23,5	150	-	0	0	0	S312-3					

► **DKT LMN**

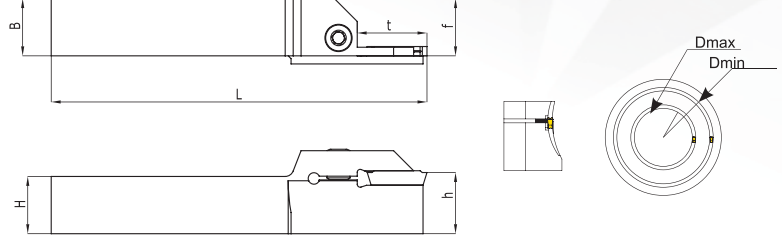


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock															
LMN GCX	R	L	Dmax	W	H	B	FS	L1	L2	H1	H2	CD	Uç Insert	Vida Screw	Anahtar Allen Key	
DKT LMN 001 GCX	✓	✓	62	2	12	12	11	90	31	12	24	16	GCX-2	M5X16	A4	
DKT LMN 002 GCX	✓	✓	62	2	16	16	15	125	43	16	28,5	16		M6X26		
DKT LMN 003 GCX	✓	✓	62	2	20	20	19	125	43	20	28,5	18				
DKT LMN 004 GCX	✓	✓	62	2	25	25	24	150	47	25	35	22	GCX-3			M5X16
DKT LMN 005 GCX	✓	✓	62	3	12	12	10,5	90	31	12	24	18				
DKT LMN 006 GCX	✓	✓	62	3	16	16	14,5	125	43	16	28,5	18				
DKT LMN 007 GCX	✓	✓	62	3	20	20	18,5	125	43	20	28,5	18	M6X26			
DKT LMN 008 GCX	✓	✓	62	3	25	25	23,5	150	47	25	35	22				
DKT LMN 009 GCX	✓	✓	62	3	32	32	30,5	170	47	32	42	22				
DKT LMN 010 GCX	✓	✓	62	4	16	16	14	125	43	16	28,5	18	GCX-4			
DKT LMN 011 GCX	✓	✓	62	4	20	20	18	125	43	20	28,5	18				
DKT LMN 012 GCX	✓	✓	62	4	25	25	23	150	47	25	35	22				
DKT LMN 013 GCX	✓	✓	62	4	32	32	30	170	47	32	42	22				

DIŞ KANAL KATERLERİ EXTERNAL GROOVING TOOLHOLDERS



► ALIN KANAL KATERİ



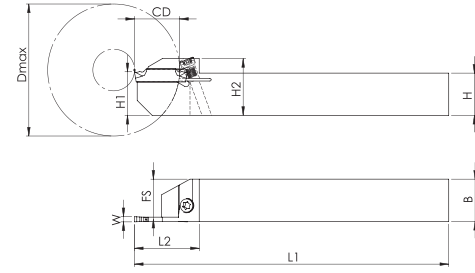
													
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock									Uç Insert	Vida Screw	Anahtar Allen Key
KRLY MGM	R	L	Dmin	Dmax	H	B	f	L1	h	t max	KRLY MGM. 300	M6x26 A4	A4
AKT K 001 MGM.	✓	×	30	40	25	25	26,7	150	25	17,5			
AKT K 002 MGM.	✓	×	35	50	25	25	26,7	150	25	17,5			
AKT K 003 MGM.	✓	×	45	70	25	25	26,7	150	25	17,5			
AKT K 004 MGM.	✓	×	65	105	25	25	26,7	150	25	17,5			
AKT K 005 MGM.	✓	×	100	150	25	25	26,7	150	25	17,5	KRLY MGM. 400		
AKT K 006 MGM.	✓	×	30	40	25	25	26,8	150	25	17,5			
AKT K 007 MGM.	✓	×	35	50	25	25	26,8	150	25	17,5			
AKT K 008 MGM.	✓	×	45	70	25	25	26,8	150	25	17,5			
AKT K 009 MGM.	✓	×	65	105	25	25	26,8	150	25	17,5			
AKT K 010 MGM.	✓	×	100	150	25	25	26,8	150	25	17,5	KRLY MGM. 500		
AKT K 011 MGM.	✓	×	75	110	25	25	27	150	25	17,5			
AKT K 012 MGM.	✓	×	105	150	25	25	27	150	25	17,5			
AKT K 013 MGM.	✓	×	145	200	25	25	27	150	25	17,5			



SAPPHIRE
CUTTING TOOLS

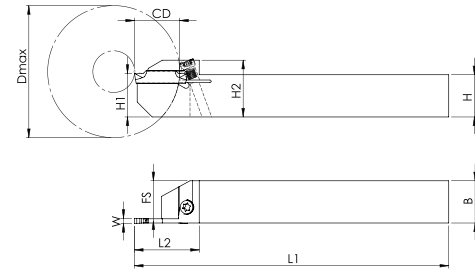
DIŞ KANAL KATERLERİ OTOMAT
EXTERNAL GROOVING TOOLHOLDERS AUTOMAT

► **DKT I OTOMAT**



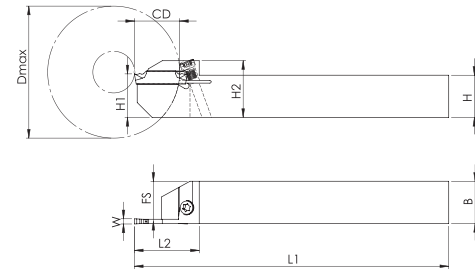
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
DGN ISCR	R	L	Dmax	W	H	B	FS	L1	L2	H1	H2	CD	Uç Insert	Vida Screw	Anahtar Allen Key
DKT I 001 DGN OT	✓	✓	50	1,5	10	10	9,25	125	30	10	21	17	DGN-1,5	M4	A4
DKT I 002 DGN OT	✓	✓	50	1,5	12	12	11,25	125	30	12	21	17			
DKT I 003 DGN OT	✓	✓	50	1,5	16	16	15,25	125	30	16	21	17			
DKT I 004 DGN OT	✓	✓	50	2	12	12	11	125	30	12	21	17	DGN-2		
DKT I 005 DGN OT	✓	✓	50	3	12	12	10,5	125	30	12	21	17	DGN-3		
DKT I 006 DGN OT	✓	✓	50	3	16	16	14,5	125	30	16	21	17			

► **DKT KYC OTOMAT**



Kesici Uç Uyumluluğu Insert Suitability			Stok Stock												
KYC-GDM	R	L	Dmax	W	H	B	FS	L1	L2	H1	H2	CD	Uç Insert	Vida Screw	Anahtar Allen Key
DKT KY 001 GDM OT	✓	✓	50	2	10	10	9	125	30	10	21	17	GDM.2	M4	A4
DKT KY 002 GDM OT	✓	✓	50	2	12	12	11	125	30	12	21	17			
DKT KY 003 GDM OT	✓	✓	50	2	16	16	15	125	30	16	21	17	GDM.3		
DKT KY 004 GDM OT	✓	✓	50	3	12	12	10,5	125	30	12	21	17			
DKT KY 005 GDM OT	✓	✓	50	3	16	16	14,5	125	30	16	21	17			

► **DKT SND OTOMAT**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock														
SND N123	R	L	Dmax	W	H	B	FS	L1	L2	H1	H2	CD	Uç Insert	Vida Screw	Anahtar Allen Key
DKT SND 001 N123 OT	✓	✓	50	1,5	12	12	11,25	125	30	12	21	17	N123-1,5C	M4	A4
DKT SND 002 N123 OT	✓	✓	50	1,5	16	16	15,25	125	30	16	21	17			
DKT SND 003 N123 OT	✓	✓	50	2	12	12	11,25	125	30	12	21	17	N123-2C		
DKT SND 004 N123 OT	✓	✓	50	3	12	12	11,25	125	30	12	21	17	N123-3C		

İÇ KANAL KATERLERİ
INTERNAL GROOVING TOOLHOLDERS



İÇ KANAL KATERLERİ / INTERNAL GROOVING TOOLHOLDERS



L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

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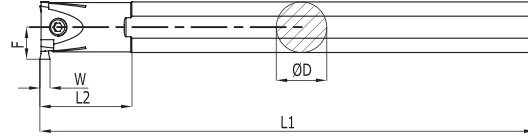
SAPPHIRE

CUTTING TOOLS

İÇ KANAL KATERLERİ

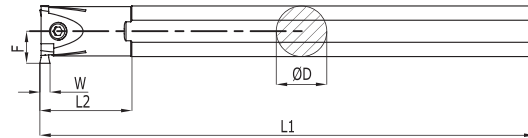
INTERNAL GROOVING TOOLHOLDERS

► İKT K



												
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
MGM KRLY		D	D min	F	L1	L2	W	Uç Insert	Vida Screw	Anahtar Allen Key		
İKT K 001 MGM	✓	16	20	12	180	25	2	MGM.-2	M4X12	A3		
İKT K 002 MGM	✓	20	25	14	200	30	2					
İKT K 003 MGM	✓	25	31	18	250	35	2					
İKT K 004 MGM	✓	32	39	22	250	30	2					
İKT K 005 MGM	✓	20	25	14,5	200	30	3	MGM.-3	M6X16	A5		
İKT K 006 MGM	✓	25	32	18,5	250	35	3					
İKT K 007 MGM	✓	32	42	25	250	35	3	MGM.-4				
İKT K 008 MGM	✓	20	25	14,5	200	30	4					
İKT K 009 MGM	✓	25	32	18,5	250	30	4					
İKT K 010 MGM	✓	32	42	25	250	35	4	MGM.-3				
İKT K 011 MGM	✓	40	52	30	400	60	3					
İKT K 012 MGM	✓	40	52	30	400	60	4	MGM.-4				
İKT K 013 MGM	✓	40	52	30	400	60	5					
İKT K 014 MGM	✓	32	42	25	250	35	5	MGM.-5				
İKT K 015 MGM	✓	25	32	18,5	250	30	5					

► İKT I

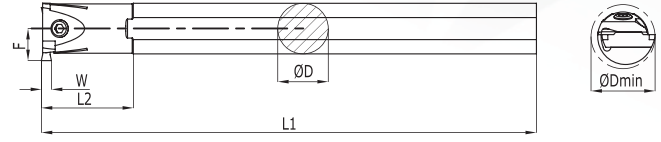


										
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
DGN. ISCR		D	D min	F	L1	L2	W	Uç Insert	Vida Screw	Anahtar Allen Key
İKT I 000 DGN.	✓	16	20	12	180	25	1,5	DGN-1.5	M4X12	A3
İKT I 001 DGN.	✓	20	25	14	200	30	2	DGN-2		
İKT I 002 DGN.	✓	25	32	18,5	250	40	2		M6X16	A5
İKT I 003 DGN.	✓	32	41	24,5	250	45	2			
İKT I 004 DGN.	✓	20	25	14	200	30	3	DGN-3	M4X12	A3
İKT I 005 DGN.	✓	25	32	18,5	250	40	3		M6X16	A5
İKT I 006 DGN.	✓	32	41	24,5	250	45	3			
İKT I 007 DGN.	✓	20	25	14	200	30	4	DGN-4	M4X12	A3
İKT I 008 DGN.	✓	25	32	18,5	250	40	4		M6X16	A5
İKT I 009 DGN.	✓	32	41	24,5	350	45	4			

İÇ KANAL KATERLERİ INTERNAL GROOVING TOOLHOLDERS

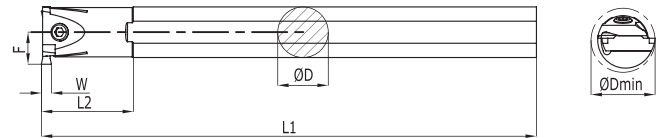


► IKT HK



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	D	D min	F	L1	L2	W	Uç Insert	Vida Screw	Anahtar Allen Key
HRN S224										
IKT HK 001 S224	✓	20	25	14	200	30	2	S224-2	M4X12	A3
IKT HK 002 S224	✓	25	33	19	250	40	2		M6X16	A5
IKT HK 003 S224	✓	32	40	23	250	45	2			
IKT HK 004 S224	✓	20	25	14	200	30	3	S224-3	M4X12	A3
IKT HK 005 S224	✓	25	33	19	250	40	3		M6X16	A5
IKT HK 006 S224	✓	32	40	23	250	45	3			
IKT HK 007 S224	✓	20	25	14	200	30	4	S224-4	M4X12	A3
IKT HK 008 S224	✓	25	33	19	250	40	4		M6X16	A5
IKT HK 009 S224	✓	32	40	23	250	45	4			

► IKT H



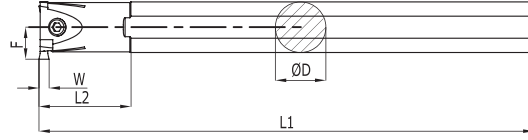
										
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
HRN S229		D	D min	F	L1	L2	W	Uç Insert	Vida Screw	Anahtar Allen Key
IKT H 001 S229	✓	25	34	20,5	250	40	3	S229-3	M6X16	A5
IKT H 002 S229	✓	32	43	26	250	45	3			
IKT H 003 S229	✓	40	52	30	400	60	3			
IKT H 004 S229	✓	25	34	20,5	250	40	4	S229-4		
IKT H 005 S229	✓	32	43	26	250	45	4			
IKT H 006 S229	✓	40	52	30	400	60	4			
IKT H 007 S229	✓	25	34	20,5	250	40	5	S229-5		
IKT H 008 S229	✓	32	43	26	250	45	5			
IKT H 009 S229	✓	40	52	30	400	60	5			



SAPPHIRE CUTTING TOOLS

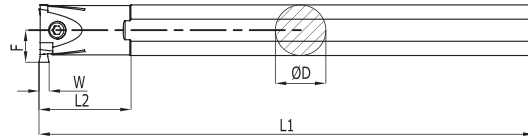
İÇ KANAL KATERLERİ INTERNAL GROOVING TOOLHOLDERS

► IKT ZCC2



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
ZCC ZT.D		D	D min	F	L1	L2	W	Uç Insert	Vida Screw	Anahtar Allen Key
IKT ZCC2 001 ZT.D	✓	20	25	14,5	200	30	3	ZT.D-3	M4X12	A3
IKT ZCC2 002 ZT.D	✓	25	32	18,5	250	35	3		M6X16	A5
IKT ZCC2 003 ZT.D	✓	32	42	25	250	35	3			
IKT ZCC2 004 ZT.D	✓	25	32	18,5	250	30	4	ZT.D-4		
IKT ZCC2 005 ZT.D	✓	32	42	25	250	35	4			
IKT ZCC2 006 ZT.D	✓	32	42	25	250	35	5	ZT.D-5		
IKT ZCC2 007 ZT.D	✓	40	52	30	400	60	5	ZT.D-2	M4X12	A3
IKT ZCC2 008 ZT.D	✓	25	32	18,5	250	35	2			
IKT ZCC2 009 ZT.D	✓	16	20	12	180	25	2			
IKT ZCC2 010 ZT.D	✓	20	25	14,5	200	30	2			

► IKT SND



										
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
SND ZCC		D	D min	F	L1	L2	W	Uç Insert	Vida Screw	Anahtar Allen Key
IKT SND 001 N123	✓	20	25	14,5	200	30	3	N123-3C	M6X16	A5
IKT SND 002 N123	✓	25	32	18,5	250	35	3			
IKT SND 003 N123	✓	32	42	25	250	35	3			
IKT SND 004 N123	✓	25	32	18,5	250	30	4	N123-4C		
IKT SND 005 N123	✓	32	42	25	250	35	4			

S-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ
S-SYSTEM EXTERNAL TURNING TOOLHOLDERS



S-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ / S-SYSTEM EXTERNAL TURNING TOOLHOLDERS

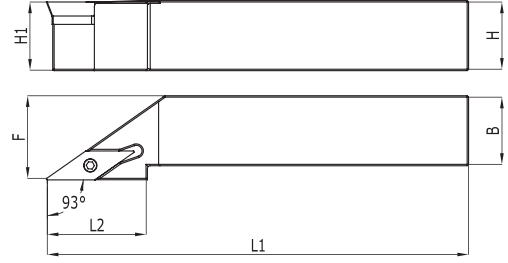


L: Sol/Left
R: Sağ/Right

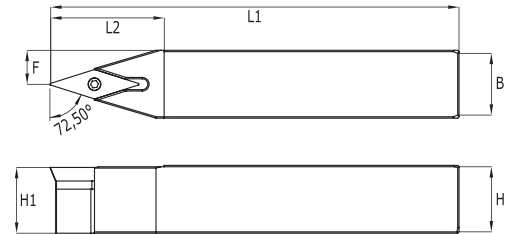
✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

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S-SYSTEM EXTERNAL TURNING TOOLHOLDERS
► SVJBR ISO


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock														
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Vida Screw	Vida Screw	Anahtar Torx Key	
SVJBR 001 ISO	✓	✓	12	12	20	100	20	0	0	VBM. 1103..	-	-	M2,5X7	T08	
SVJBR 002 ISO	✓	✓	16	16	20	100	25	0	0		-	-			
SVJBR 003 ISO	✓	✓	16	16	20	100	25	0	0	VBM. 1604..	-	-	M3,5X11	T15	
SVJBR 004 ISO	✓	✓	20	20	25	125	35	0	0	VBM. 1103..	-	-	M2,5X7	T08	
SVJBR 005 ISO	✓	✓	20	20	25	125	35	0	0	VBM. 1604..	VB..016	M5X0.5XM3.5	M3,5X14	T15	
SVJBR 006 ISO	✓	✓	25	25	32	150	40	0	0						
SVJBR 007 ISO	✓	✓	32	32	40	170	40	0	0						
SVJBR 008 ISO	✓	✓	25	25	32	150	40	0	0	VBM. 1103..	-	-	M2,5X7	T08	

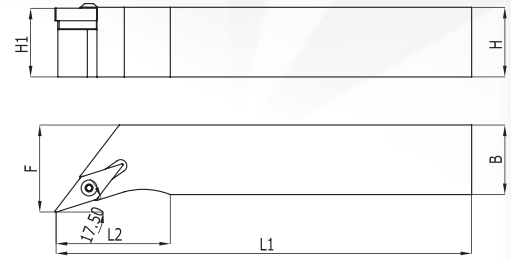
► SVVBN ISO


													
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock							Uç Insert	Altılık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
ISO		H1 H	B	F	L1	L2	λS	Y0	VBM. 1103..			M2,5X7	T08
SVVBN 001 ISO	✓	12	12	6	100	20	0	0					
SVVBN 002 ISO	✓	16	16	8	100	25	0	0					
SVVBN 003 ISO	✓	20	20	10	125	35	0	0	VBM. 1604..			M3,5X11	T15
SVVBN 004 ISO	✓	16	16	8	100	25	0	0					
SVVBN 006 ISO	✓	20	20	10	125	35	0	0					
SVVBN 007 ISO	✓	25	25	12,5	150	40	0	0		VB..016	M5X0.5XM3.5	M3,5X14	
SVVBN 008 ISO	✓	32	32	16	170	40	0	0					

S-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ S-SYSTEM EXTERNAL TURNING TOOLHOLDERS

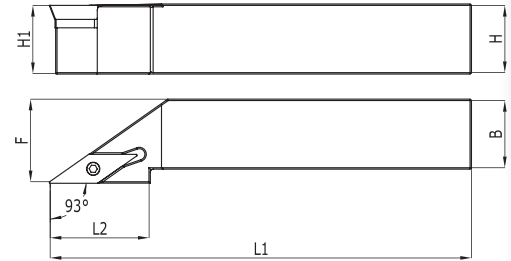


► SVHBR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock												
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altlık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
SVHBR 000 ISO	✓	✓	12	12	20	100	25	0	0	VBM. 1103..	-	-	M2.5X7	T08
SVHBR 001 ISO	✓	✓	16	16	20	100	25	0	0		-	-		
SVHBR 002 ISO	✓	✓	20	20	25	125	30	0	0		-	-		
SVHBR 003 ISO	✓	✓	20	20	25	125	35	0	0	VBM. 1604..	VB..016	M5X0.5XM3.5	M3.5X14	T15
SVHBR 004 ISO	✓	✓	25	25	32	150	40	0	0					
SVHBR 005 ISO	✓	✓	32	32	40	170	40	0	0					

► SVJCR ISO



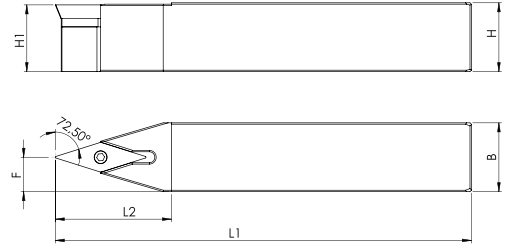
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock												
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altlık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
SVJCR 001 ISO	✓	✓	12	12	20	100	20	0	0	VC.T 1103..			M2,5X7	T08
SVJCR 002 ISO	✓	✓	16	16	20	100	25	0	0					
SVJCR 003 ISO	✓	✓	16	16	20	100	25	0	0					
SVJCR 004 ISO	✓	✓	20	20	25	125	35	0	0	VC.T 1604..	VC..016	M5X0.5XM3.5	M3,5X11	T15
SVJCR 005 ISO	✓	✓	20	20	25	125	35	0	0					
SVJCR 006 ISO	✓	✓	25	25	32	150	40	0	0					
SVJCR 007 ISO	✓	✓	32	32	40	170	40	0	0				M2,5X7	T08

L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

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Kesici Uç Uyumluluğu Insert Suitability	Stok Stock												
ISO		H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altlık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
SVVCN 001 ISO	✓	12	12	6	100	20	0	0	VC.T 1103..			M2,5X7	T08
SVVCN 002 ISO	✓	16	16	8	100	25	0	0					
SVVCN 003 ISO	✓	20	20	10	125	35	0	0					
SVVCN 004 ISO	✓	16	16	8	100	25	0	0	VC.T 1604..			M3,5X11	T15
SVVCN 005 ISO	✓	20	20	10	125	35	0	0					
SVVCN 006 ISO	✓	25	25	12,5	150	40	0	0		VB..016	M5X0.5XM3.5	M3,5X14	
SVVCN 007 ISO	✓	32	32	16	170	40	0	0					

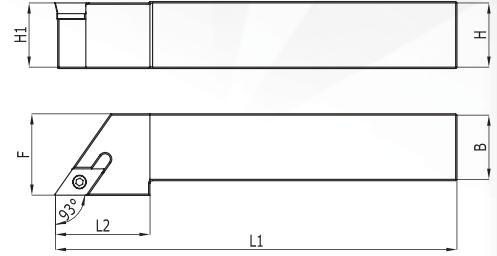
► SDNCN ISO


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	H1	H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
ISO														
SDNCN 001 ISO	✓	8	8	4	100	16	0	0		DC.T 0702..			M2,5X7	T08
SDNCN 002 ISO	✓	10	10	5	100	16	0	0						
SDNCN 003 ISO	✓	12	12	6	100	20	0	0						
SDNCN 004 ISO	✓	16	16	8	100	25	0	0						
SDNCN 005 ISO	✓	16	16	8	100	25	0	0						
SDNCN 006 ISO	✓	20	20	10	125	35	0	0		DC.T 11T3..			M3,5X14	T15
SDNCN 007 ISO	✓	25	25	12,5	150	40	0	0						
SDNCN 008 ISO	✓	32	32	16	170	40	0	0						
SDNCN 009 ISO	✓	12	12	6	100	20	0	0			DC..011	M5X0.5XM3.5		

S-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ S-SYSTEM EXTERNAL TURNING TOOLHOLDERS

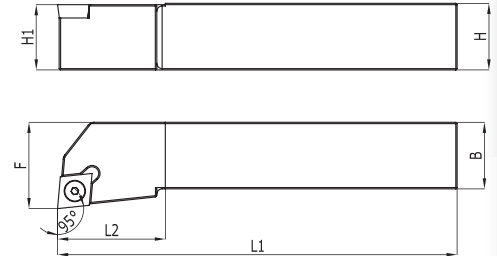


► SDJCR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock		H1	H	B	F	L1	L2	λS	Y0	Uç Insert	Altlık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
ISO	R	L														
SDJCR 001 ISO	✓	✓	8	8	10	100	16	0	0			DC.T 0702..			M2,5X7	T08
SDJCR 002 ISO	✓	✓	10	10	12	100	16	0	0							
SDJCR 003 ISO	✓	✓	12	12	16	100	20	0	0							
SDJCR 004 ISO	✓	✓	16	16	20	100	25	0	0							
SDJCR 005 ISO	✓	✓	16	16	20	100	25	0	0			DC.T 11T3..	DC..011	M5X0.5XM3.5	M3,5X14	T15
SDJCR 006 ISO	✓	✓	20	20	25	125	35	0	0							
SDJCR 007 ISO	✓	✓	25	25	32	150	40	0	0							
SDJCR 008 ISO	✓	✓	32	32	40	170	40	0	0							

► SCLCR ISO



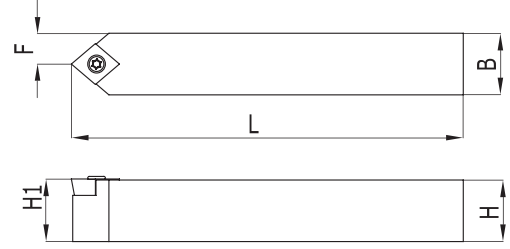
														
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									Uç Insert	Altlık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	CC.T 0602..	-	-	M2,5x5	T8
SCLCR 001 ISO	✓	✓	8	10	6	100	30	-10	0					
SCLCR 002 ISO	✓	✓	8	11	6	100	25	-10	0					
SCLCR 003 ISO	✓	✓	10	13	7	125	25	-10	0					
SCLCR 004 ISO	✓	✓	12	16	9	150	30	-8	0	CC.T 09T3..	-	-	M3,5x6	T15
SCLCR 005 ISO	✓	✓	12	16	9	150	30	-8	0	CC.T 0602..	-	-	M2,5x7	T8
SCLCR 006 ISO	✓	✓	16	20	11	180	35	-8	0	CC.T 09T3..	-	-	M3,5x8	T15
SCLCR 007 ISO	✓	✓	16	20	11	180	35	-8	0					
SCLCR 008 ISO	✓	✓	20	25	13	200	40	-8	0					
SCLCR 009 ISO	✓	✓	25	32	17	250	50	-8	0					
SCLCR 010 ISO	✓	✓	32	40	23	300	60	-8	0	CC.T 1204.	CC..12	M6xM4	M4x14	
SCLCR 011 ISO	✓	✓	25	32	17	250	50	-8	0					
SCLCR 012 ISO	✓	✓	32	40	23	300	60	-8	0					
SCLCR 013 ISO	✓	✓	40	50	27	400	70	-8	0	CC.T 09T3..	-	-	M3,5x8	
SCLCR 015 ISO	✓	✓	25	32	17	250	50	-8	0					



SAPPHIRE
CUTTING TOOLS

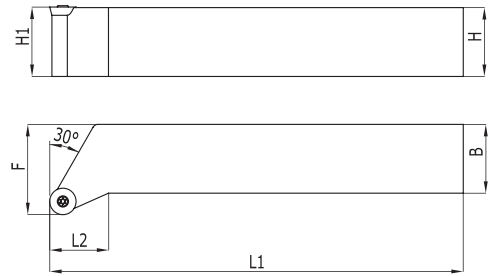
S-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ
S-SYSTEM EXTERNAL TURNING TOOLHOLDERS

► **SCNCN ISO**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock												
ISO		H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
SCNCN 001 ISO	✓	8	8	4	100	16	0	0	CC.T 0602..	-	-	M2,5X7	T08
SCNCN 002 ISO	✓	10	10	5	100	16	0	0		-	-		
SCNCN 004 ISO	✓	16	16	8	100	25	0	0	CC.T 09T3..	-	-	M3,5X11	T15
SCNCN 005 ISO	✓	20	20	10	125	35	0	0	CC.T 1204..	CC..012	M6XM4	M4X12	T20
SCNCN 006 ISO	✓	25	25	12,5	150	40	0	0	CC.T 0602..	-	-	M2,5X7	T08
SCNCN 008 ISO	✓	12	12	6	100	20	0	0	CC.T 0602..	-	-	M2,5X7	T15
SCNCN 009 ISO	✓	12	12	6	150	40	0	0	CC.T 09T3..	-	-	M3,5X11	

► **SRGCR ISO**

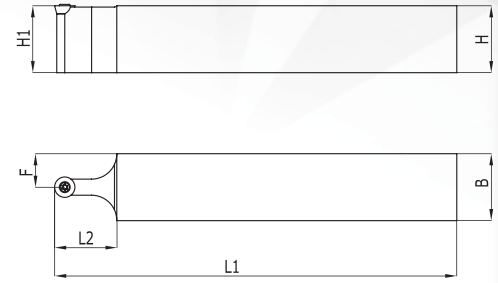


												
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock										
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Vida Screw	Anahtar Torx Key
SRGCR 001 ISO	✓	✓	16	16	21	125	25	0	0	RC.T 0803..	M3X9	T10
SRGCR 002 ISO	✓	✓	20	20	25	125	35	0	0			
SRGCR 003 ISO	✓	✓	25	25	32	150	40	0	0			
SRGCR 004 ISO	✓	✓	16	16	21	100	25	0	0	RC.T 10T3..	M4X11	T15
SRGCR 005 ISO	✓	✓	20	20	25	125	35	0	0			
SRGCR 006 ISO	✓	✓	25	25	32	150	40	0	0			
SRGCR 007 ISO	✓	✓	32	32	40	170	40	0	0	RC.T 1204..		
SRGCR 008 ISO	✓	✓	16	16	21	100	25	0	0			
SRGCR 009 ISO	✓	✓	20	20	25	125	35	0	0			
SRGCR 010 ISO	✓	✓	25	25	32	150	40	0	0			
SRGCR 011 ISO	✓	✓	32	32	40	170	40	0	0			

S-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ S-SYSTEM EXTERNAL TURNING TOOLHOLDERS

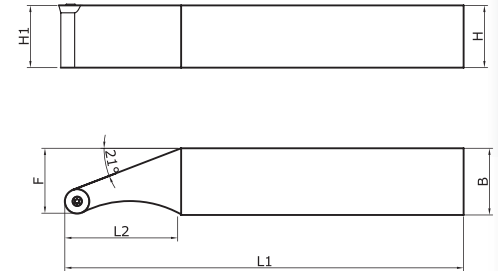


► SRDCN ISO



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ISO		H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Vida Screw	Anahtar Torx Key
SRDCN 001 ISO	✓	16	16	8	125	25	0	0	RC.T 0803..	M3X9	T10
SRDCN 002 ISO	✓	20	20	10	125	30	0	0			
SRDCN 003 ISO	✓	25	25	12,5	150	35	0	0			
SRDCN 004 ISO	✓	20	20	10	125	30	0	0	RC.T 10T3..	M4X11	T15
SRDCN 005 ISO	✓	25	25	12,5	150	35	0	0			
SRDCN 006 ISO	✓	20	20	10	125	30	0	0	RC.T 1204..		
SRDCN 007 ISO	✓	25	25	12,5	150	35	0	0			
SRDCN 008 ISO	✓	25	25	12,5	150	35	0	0	RC.T 1604..	M5X12	T20
SRDCN 009 ISO	✓	16	16	8	100	20	0	0	RC.T 10T3..	M4X11	T15
SRDCN 010 ISO	✓	32	32	16	170	40	0	0			
SRDCN 011 ISO	✓	32	32	16	170	40	0	0	RC.T 1204..		

► SRHCR ISO



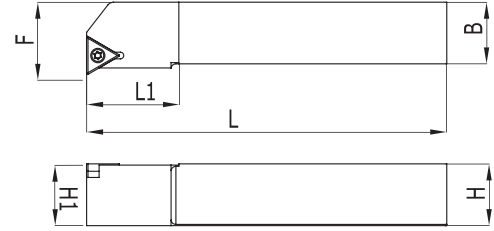
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Vida Screw	Anahtar Torx Key
SRHCR 001 ISO	✓	X	16	16	16	125	25	0	0	RC.T 0803..	M3X9	T10
SRHCR 002 ISO	✓	X	20	20	20	125	35	0	0			
SRHCR 003 ISO	✓	X	25	25	25	150	40	0	0			
SRHCR 004 ISO	✓	X	20	20	20	125	35	0	0	RC.T 10T3..	M4X11	T15
SRHCR 005 ISO	✓	X	25	25	25	150	40	0	0			
SRHCR 006 ISO	✓	X	20	20	20	125	35	0	0	RC.T 1204..	M4X11	T15
SRHCR 007 ISO	✓	X	25	25	25	150	40	0	0			
SRHCR 008 ISO	✓	X	32	32	32	125	35	0	0			
SRHCR 009 ISO	✓	X	16	16	16	125	35	0	0			



SAPPHIRE
CUTTING TOOLS

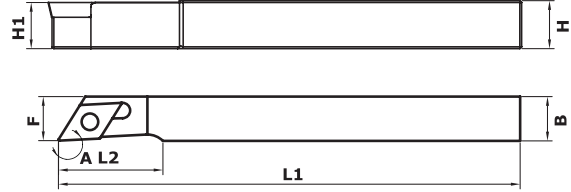
S-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ
S-SYSTEM EXTERNAL TURNING TOOLHOLDERS

► **STFCR ISO**



Kesici Uç Uyumluluğu Insert Suitability			Stok Stock												
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0		Uç Insert	Altık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
STFCR 001 ISO	✓	✓	16	16	20	100	25	0	0	TC.T 16T3..	-	-	M3.5X11	M3.5X14	T10
STFCR 002 ISO	✓	✓	20	20	25	125	35	0	0						
STFCR 003 ISO	✓	✓	25	25	32	150	40	0	0	TC.T 11..	TC..016	M5XM3.5	M3.5X14	M2,5	T8
STFCR 004 ISO	✓	✓	12	12	16	100	25	0	0						
STFCR 005 ISO	✓	✓	16	16	20	100	25	0	0						

► **DCMT 11 OTOMAT ISO**

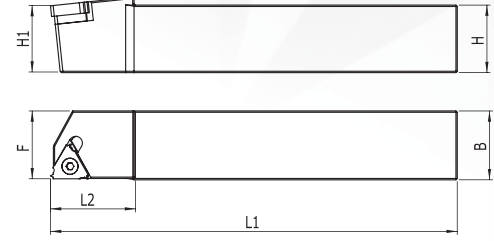


													
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock											
ISO	R	L	H1 H	B	F	L1	L2	A	λS	Y0	Uç Insert	Vida Screw	Anahtar Torx Key
OT SDACL 001 ISO	✓	✓	12	12	12	125	24	90°	0	0	DC.T 11T3..	M3,5X9	T15
OT SDACR 001 ISO	✓	✓	12	12	12	125	24	90°	0	0			
OT SDJCL 001 ISO	✓	✓	12	12	12	125	24	93°	0	0			
OT SDJCR 001 ISO	✓	✓	12	12	12	125	24	93°	0	0			
OT SDNCN 001 ISO	✓	✓	12	12	12	125	24	93°	0	0			

S-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ S-SYSTEM EXTERNAL TURNING TOOLHOLDERS

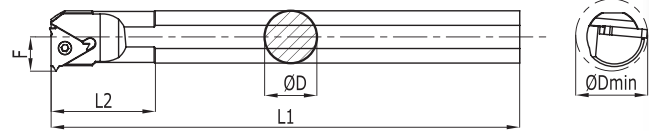


► SER ISO



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock																
ISO SER16	R	L	H1	H	B	F	L1	L2	λS	Y0	Uç Insert	Altık Shim	Vida Screw	Vida Screw	Anahtar Torx Key	Pabuç Clamp	Vida Screw
SER 001 ISO	✓	✓	8	8			100	20	-5.5	0	11 ER/L	-	-	M2,5X7	T08	-	-
SER 003 ISO	✓	✓	12	12			100	20	-5.5	0	11 ER/L	-	-	M2,5X7	T08	-	-
SER 004 ISO	✓	✓	12	12			100	20	-5.5	0	16 ER/L	ER/L..016	M5X- 0.5XM3.5	M3,5X14	T15	CK15	M4x12
SER 005 ISO	✓	✓	16	16			125	30	-5.5	0	11 ER/L	-	-	M2,5X7	T08	-	-
SER 006 ISO	✓	✓	16	16			125	30	-5.5	0	16 ER/L	ER/L..016	M5X- 0.5XM3.5	M3,5X14	T15	CK15	M4x12
SER 007 ISO	✓	✓	20	20			125	35	-5.5	0	16 ER/L	ER/L..016	M5X- 0.5XM3.5	M3,5X14	T15	CK15	M4x12
SER 008 ISO	✓	✓	25	25			150	40	-5.5	0	22 ER/L	ER/L..022	-	M4X17	T20	-	-
SER 009 ISO	✓	✓	25	25			150	40	-5.5	0	16 ER/L	ER/L..016	M5X- 0.5XM3.5	M3,5X14	T15	CK15	M4x12
SER 010 ISO	✓	✓	32	32			170	40	-5.5	0	22 ER/L	ER/L..022	-	M4X15	T20	-	-
SER 011 ISO	✓	✓	32	32			170	40	-5.5	0	22 ER/L	ER/L..022	-	M4X15	T20	-	-

► SIR ISO



																
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock								Uç Insert	Altılık Shim	Vida Screw	Vida Screw	Anahtar Torx Key	Pabuç Clamp	Vida Screw
ISO SIR16	R	L	D	D min	F	L1	L2	λF	YP	11 IR/ER	-	-	M2,5X6	T08	-	-
SIR 001 ISO	✓	✓	10	13	7,5	125	25	-15	-1,5 <th>-</th> <th>-</th> <th>-</th> <th>-</th>		-	-			-	-
SIR 002 ISO	✓	✓	12	15	8,5	150	25	-15	-1,5 <th>-</th> <th>-</th> <th>-</th> <th>-</th>		-	-			-	-
SIR 003 ISO	✓	✓	16	13	7,5	180	40	-15	-1,5 <th>-</th> <th>-</th> <th>-</th> <th>-</th>		-	-			-	-
SIR 004 ISO	✓	✓	16	20	11	180	30	-15	-1,5 <th rowspan="4">16 IR/ER</th> <th>-</th> <th>-</th> <th rowspan="4">M3,5X8</th> <th rowspan="4">T15</th> <th>-</th> <th>-</th>	16 IR/ER	-	-	M3,5X8	T15	-	-
SIR 005 ISO	✓	✓	16	20	11	180	30	-15	-1,5 <th>-</th> <th>-</th> <th>-</th> <th>-</th>		-	-			-	-
SIR 006 ISO	✓	✓	20	25	13	200	35	-15	-1,5 <th>-</th> <th>-</th> <th>-</th> <th>-</th>		-	-			-	-
SIR 007 ISO	✓	✓	25	32	17	250	35	-15	-1,5 <th rowspan="3">IR/ER 016</th> <th rowspan="3">M5X- 0.5XM3.5</th> <th>M3,5X11</th> <th rowspan="3">M3,5X14</th>		IR/ER 016	M5X- 0.5XM3.5			M3,5X11	M3,5X14
SIR 008 ISO	✓	✓	32	40	21	300	40	-15	-1,5 <th>M3,5X14</th>	M3,5X14						
SIR 009 ISO	✓	✓	40	50	26	400	50	-15	-1,5							
SIR 010 ISO	✓	✓	25	32	17	250	35	-15	-1,5 <th rowspan="4">22 IR/ER</th> <th rowspan="4">IR/ER 022</th> <th>-</th> <th rowspan="4">M4X17</th> <th rowspan="4">T20</th> <th rowspan="4">CK15</th> <th rowspan="4">M4X12</th>	22 IR/ER	IR/ER 022	-	M4X17	T20	CK15	M4X12
SIR 011 ISO	✓	✓	32	40	21	300	40	-15	-1,5 <th>-</th>			-				
SIR 012 ISO	✓	✓	40	50	26	400	50	-15	-1,5 <th>-</th>			-				
SIR 013 ISO	✓	✗	50	63	35	450	70	-15	-1,5 <th>-</th>			-				

L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

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SAPPHIRE
CUTTING TOOLS

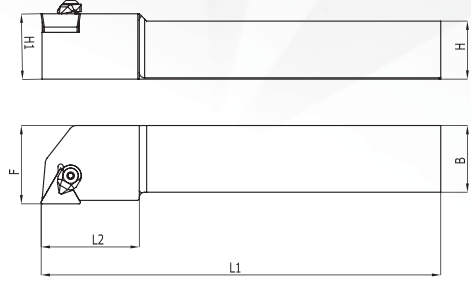
C-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ
C-SYSTEM EXTERNAL TURNING TOOLHOLDERS



C-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ C-SYSTEM EXTERNAL TURNING TOOLHOLDERS

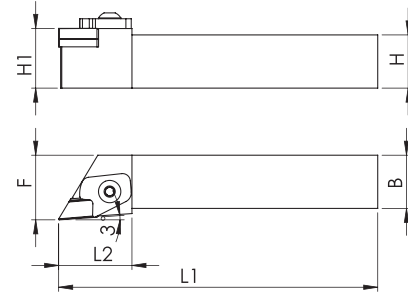


► CTGPR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	H1-H	B	F	L1	L2	AS	Y0	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
CTGPR 001 ISO	✓	×	16	16	16	100	30	-6	-6	TP.. 1103			TP11	M5X12	A3
CTGPR 002 ISO	✓	✓	16	16	20	100	30	-6	-6	TP.. 1603..	-	-	-	-	
CTGPR 003 ISO	✓	✓	20	20	25	125	35	-6	-6		TP16	M5X12	TP16	-	
CTGPR 004 ISO	✓	✓	25	25	32	150	40	-6	-6					-	
CTGPR 005 ISO	✓	✓	25	25	32	150	40	-6	-6	TP.. 2204..	-	-	TP22	M6X22	A4

► CKJNR ISO



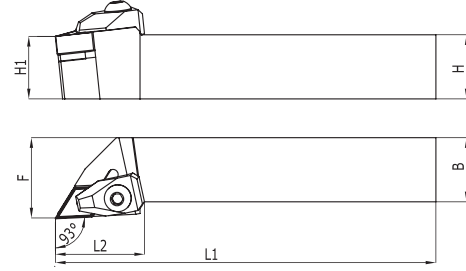
															
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock								Uç Insert	Altlık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
ISO	R	L	H1-H	B	F	L1	L2	λS	Y0	KNUX 11	-	-	C110105	M4X12	A5
CKJNR 001 ISO	✓	✓	20	20	25	125	35	-6	-6						
CKJNR 002 ISO	✓	✓	25	25	32	150	40	-6	-6	KNUX 1604..	KN..016	M3X10	C160105	M6X22	
CKJNR 004 ISO	✓	✓	20	20	25	125	35	-6	-6						
CKJNR 006 ISO	✓	✓	25	25	32	150	40	-6	-6						
CKJNR 007 ISO	✓	✓	32	32	40	170	40	-6	-6						
CKJNR 008 ISO	✓	✓	40	40	50	200	45	-6	-6						



SAPPHIRE
CUTTING TOOLS

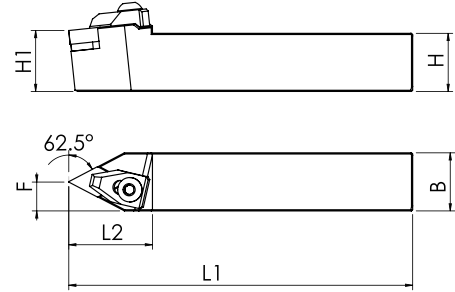
T-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ
T-SYSTEM EXTERNAL TURNING TOOLHOLDERS

► **TDJNR ISO**



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TDJNR 001 ISO	✓	✓	16	16	21	125	30	-6	-6	DNM. 1104..	DN..011	M4X11 T15	T110105	M5X23	A3
TDJNR 002 ISO	✓	✓	20	20	25	125	35	-6	-6						
TDJNR 003 ISO	✓	✓	25	25	32	150	40	-6	-6						
TDJNR 004 ISO	✓	✓	20	20	25	125	35	-6	-6	DNM. 1506..	DN..015	M4X8 A2,5	T150105	M6X27	
TDJNR 005 ISO	✓	✓	25	25	32	150	40	-6	-6						
TDJNR 006 ISO	✓	✓	32	32	40	170	40	-6	-6						
TDJNR 007 ISO	✓	✓	40	40	50	200	45	-6	-6						
TDJNR 008 ISO	✓	✓	16	16	21	125	30	-6	-6						

► **TDNNN ISO**

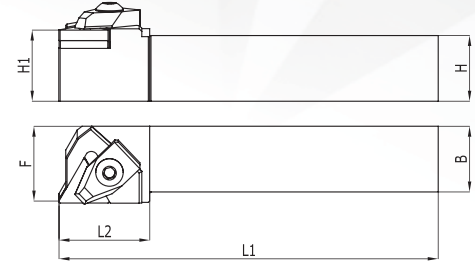


														
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock												
ISO		H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TDNNN 001 ISO	✓	16	16	8	125	30	-10	0	DNM. 1104..	DN..011	M4X8 T15	T110105	M5X23	A3
TDNNN 002 ISO	✓	20	20	10	125	35	-10	0						
TDNNN 003 ISO	✓	25	25	12,5	150	40	-10	0						
TDNNN 004 ISO	✓	20	20	10	125	35	-10	0	DNM. 1506..	DN..015	M4X8 A2,5	T150105	M6X27	
TDNNN 005 ISO	✓	25	25	12,5	150	40	-10	0						
TDNNN 006 ISO	✓	32	32	16	170	40	-10	0						
TDNNN 007 ISO	✓	40	40	20	200	45	-10	0						

T-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ T-SYSTEM EXTERNAL TURNING TOOLHOLDERS

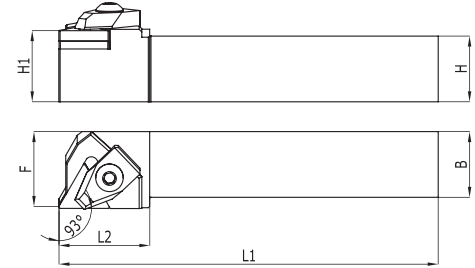


► TTGNR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	H1-H	B	F	L1	L2	AS	Y0	Uç Insert	Altlık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TTGNR 001 ISO	✓	✓	20	20	25	125	35	-6	-6	TNMG 1604	TN..016(H)	M4X8 A2,5	T160105	M5X23	A3
TTGNR 002 ISO	✓	✓	25	25	32	150	40	-6	-6						
TTGNR 003 ISO	✓	✓	20	20	25	125	40	-6	-6	TNMG 2204	TN..022(H)	M4X8 A2,5	T220105	M6X27	A3
TTGNR 004 ISO	✓	✓	25	25	32	150	40	-6	-6						
TTGNR 005 ISO	✓	✓	32	32	40	170	40	-6	-6						
TTGNR 006 ISO	✓	✓	40	40	50	200	45	-6	-6						

► TTJNR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	H1-H	B	F	L1	L2	AS	Y0	Uç Insert	Altlık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TTJNR 001 ISO	✓	✓	16	16	21	125	35	-6	-6	TNMG 1604	TN..016(H)	M4X8 A2,5	T110105	M5X23	A3
TTJNR 002 ISO	✓	✓	20	20	25	125	35	-6	-6						
TTJNR 003 ISO	✓	✓	25	25	32	150	40	-6	-6	TNMG 2204	TN..022(H)	M4X8 A2,5	T150105	M6X27	A3
TTJNR 004 ISO	✓	✓	20	20	25	125	35	-6	-6						
TTJNR 005 ISO	✓	✓	25	25	32	150	40	-6	-6						
TTJNR 006 ISO	✓	✓	32	32	40	170	40	-6	-6						
TTJNR 007 ISO	✓	✓	40	40	50	200	45	-6	-6						



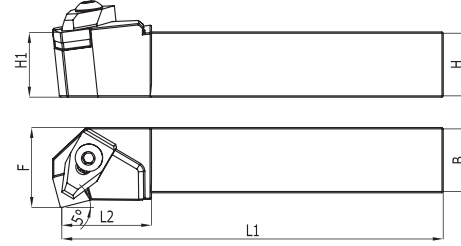
SAPPHIRE

CUTTING TOOLS

T-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ

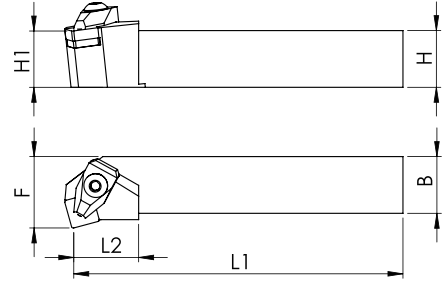
T-SYSTEM EXTERNAL TURNING TOOLHOLDERS

► TSLNR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TSLNR 001 ISO	✓	✓	20	20	25	125	35	-6	-6	SNMG 1204	SN..012	M4X8 A2,5	T120105	M6X27	A3
TSLNR 002 ISO	✓	✓	25	25	32	150	40	-6	-6						
TSLNR 003 ISO	x	x	32	32	40	170	40	-6	-6						
TSLNR 005 ISO	✓	x	32	32	40	170	40	-6	-6	SNMG 1506	SN..015	M5X10	T160105	M6X27	A3
TSLNR 006 ISO	✓	x	40	40	50	170	40	-6	-6						
TSLNR 007 ISO	✓	x	32	32	40	170	40	-6	-6	SNMG 1906	SN..019	M5X10	T190105	M8X25	A5
TSLNR 004 ISO	✓	x	40	40	50	200	45	-6	-6						

► TSKNR ISO

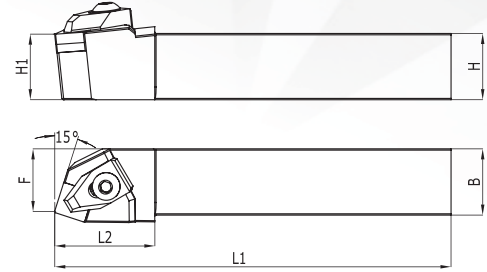


Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TSKNR 001 ISO	x	x	20	20	25	125	35	-6	-6	SNMG 1204	SN..012	M4X8 A2,5	T120105	M6X27	A3
TSKNR 002 ISO	✓	✓	25	25	32	150	40	-6	-6					M6X27	A3
TSKNR 005 ISO	x	x	32	32	40	170	40	-6	-6	SNMG 1506	SN..015	M5X10	T160105	M6X27	A3
TSKNR 007 ISO	x	x	40	40	50	200	45	-6	-6	SNMG 1906	SN..019	M5X10	T190105	M8X25	A5

T-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ T-SYSTEM EXTERNAL TURNING TOOLHOLDERS

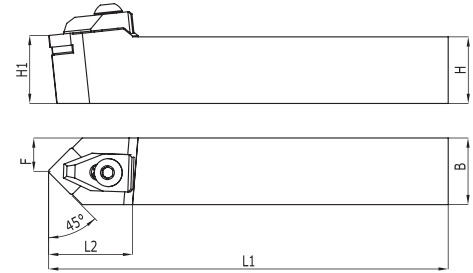


► TSRNR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	H1-H	B	F	L1	L2	AS	Y0	Uç Insert	Altlık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TSRNR 001 ISO	✓	✓	20	20	19	125	35	-6	-6	SNMG 1204	SN..012	M4X8 A2,5	T120105	M6X27	A3
TSRNR 002 ISO	✓	✓	25	25	24	150	40	-6	-6					M6X27	A3
TSRNR 003 ISO	x	x	32	32	30	170	40	-6	-6	SNMG 1506	SN..015	M5X10	T160105	M6X27	A3
TSRNR 004 ISO	x	x	40	40	38	200	45	-6	-6	SNMG 1906	SN..019		T190105	M8X25	A3
TSRNR 005 ISO	x	x	32	32	30	170	40	-6	-6	SNMG 1204	SN..012	M4X8 A2,5	T120105	M6X27	A3
TSRNR 006 ISO	x	x	32	32	30	170	40	-6	-6	SNMG 1906	SN..019		T190105	M8X25	A3
TSRNR 007 ISO	x	x	40	40	38	200	45	-6	-6	SNMG 1506	SN..015	M5X10	T160105	M6X27	A3

► TSDNN ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO			H1-H	B	F	L1	L2	AS	Y0	Uç Insert	Altlık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TSDNN 001 ISO	✓		20	20	10	125	35	-10	0	SNMG 1204	SN..012	M4X8 A2,5	T120105	M6X27	A3
TSDNN 002 ISO	✓		25	25	12,5	150	40	-10	0						
TSDNN 003 ISO	✓		32	32	16	170	40	-10	0	SNMG 1506	SN..015	M4X8 A2,5	T150105	M6X27	A3
TSDNN 004 ISO	✓		40	40	20	200	45	-10	0	SNMG 1906	SN..019	M5X10	T190105	M8X25	A5
TSDNN 005 ISO	✓		32	32	16	170	40	-10	0	SNMG 1204	SN..012	M4X8 A2,5	T120105	M6X27	A3
TSDNN 006 ISO	✓		32	32	16	170	40	-10	0	SNMG 1906	SN..019	M5X10	T190105	M8X25	A5
TSDNN 007 ISO	✓		40	40	20	200	45	-10	0	SNMG 1506	SN..015	M4X8 A2,5	T150105	M6X27	A3

L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
x Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

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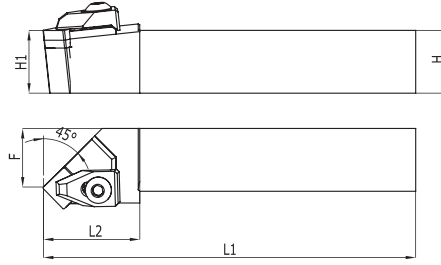
SAPPHIRE

CUTTING TOOLS

T-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ

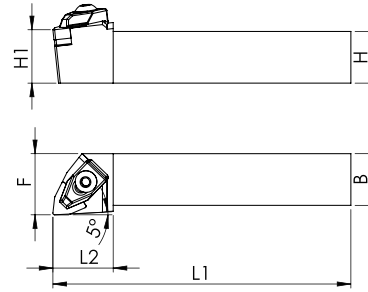
T-SYSTEM EXTERNAL TURNING TOOLHOLDERS

► TSSNR ISO



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock														
ISO	R	L	H1-H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TSSNR 001 ISO	✓	✓	20	20	19	125	35	-6	-6	SNMG 1204	SN..012	M4X8 A2,5	T120105	M6X27	A3
TSSNR 002 ISO	✓	✓	25	25	24	150	40	-6	-6						
TSSNR 003 ISO	✓	✓	32	32	30	170	40	-6	-6	SNMG 1506	SN..015	M5X10	T160105		
TSSNR 004 ISO	✓	✓	40	40	38	200	45	-6	-6	SNMG 1906	SN..019	M5X10	T190105	M8X25	A5
TSSNR 005 ISO	✓	✓	32	32	30	170	40	-6	-6	SNMG 1204	SN..012	M4X8 A2,5	T120105	M6X27	A3
TSSNR 006 ISO	✓	✓	32	32	30	170	40	-6	-6	SNMG 1906	SN..019	M5X10	T190105	M8X25	A5
TSSNR 007 ISO	✓	✓	32	32	30	170	40	-6	-6	SNMG 1506	SN..015	M5X10	T160105	M6X27	A3

► TWLNR ISO

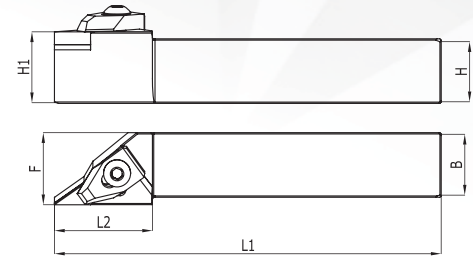


Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	H1-H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TWLNR 001 ISO	✓	✓	16	16	21	125	30	-6	-6	WNM.0602..	-	-	T060105	M5X15	
TWLNR 002 ISO	✓	✓	20	20	25	125	35	-6	-6						
TWLNR 003 ISO	✓	✓	25	25	32	150	40	-6	-6	WNM.0804..	WN..008(H)	M4X8 A2.5	T080105	M6X27	A3
TWLNR 004 ISO	✓	✓	20	20	25	125	35	-6	-6						
TWLNR 005 ISO	✓	✓	25	25	32	150	40	-6	-6						
TWLNR 006 ISO	✓	✓	32	32	40	170	40	-6	-6						
TWLNR 007 ISO	✓	✓	40	40	50	200	45	-6	-6						
TWLNR 008 ISO	✓	✓	32	32	40	170	40	-6	-6	WNM.10	-	-	T100105		
TWLNR 009 ISO	✓	✓	40	40	50	200	45	-6	-6	WNM.10	-	-	T100105		

T-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ T-SYSTEM EXTERNAL TURNING TOOLHOLDERS

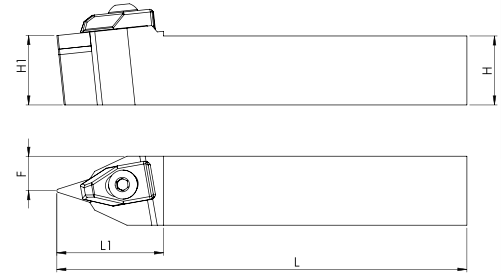


► TVJNR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	H1-H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TVJNR 000 ISO	✓	✓	16	16	25	125	35	-6	-6	VNMG 1604	VN..016	M4X11 T15	T160105	M6X27	A3
TVJNR 001 ISO	✓	✓	20	20	25	125	35	-6	-6						
TVJNR 002 ISO	✓	✓	25	25	32	150	40	-6	-6						
TVJNR 003 ISO	✓	✓	32	32	40	170	40	-6	-6						
TVJNR 004 ISO	✓	✓	40	40	50	200	45	-6	-6						

► TVNNN ISO



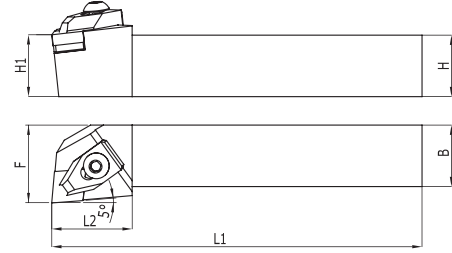
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO			H1-H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TVNNN 001 ISO	✓		20	20	10	125	30	-10	0	VNMG 1604	VN..016	M4X11 T15	T160105	M6X27	A3
TVNNN 002 ISO	✓		25	25	12,5	150	35	-10	0						
TVNNN 003 ISO	✓		32	32	16	170	40	-10	0						
TVNNN 004 ISO	✓		40	40	16	170	40	-10	0						


SAPPHIRE
CUTTING TOOLS

T-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ

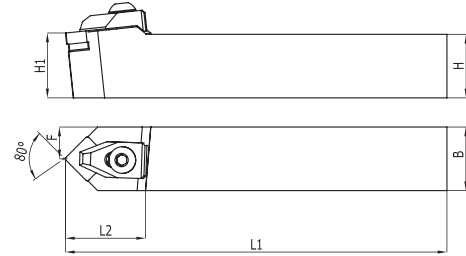
T-SYSTEM EXTERNAL TURNING TOOLHOLDERS

► TCLNR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TCLNR 001 ISO	✓	✓	20	20	25	125	35	-6	-6	CNM. 1204..	CN..012	M4X8 A2,5	T120105	M6X27	A3
TCLNR 002 ISO	✓	✓	25	25	32	150	40	-6	-6						
TCLNR 003 ISO	✓	✓	32	32	40	170	40	-6	-6						
TCLNR 004 ISO	✓	✓	25	25	32	150	40	-6	-6	CNM. 1606..	CN..016	M5X10	T160105	M6X27	A3
TCLNR 005 ISO	✓	✓	32	32	40	170	40	-6	-6						
TCLNR 006 ISO	✓	✓	32	32	40	170	40	-6	-6	CNM. 1906..	CN..019	M5X10	T190105	M8X25	A5
TCLNR 007 ISO	✓	✓	40	40	50	200	45	-6	-6						
TCLNR 008 ISO	✓	×	40	40	50	200	45	-6	-6	CNM. 1606..	CN..016	M5X10	T160105	M6X27	A3
TCLNR 009 ISO	✓	✓	16	16	25	100	35	-6	-6	CNM. 1204..	CN..012	M4X8 A2,5	T120105	M6X27	A3

► TCZNN ISO

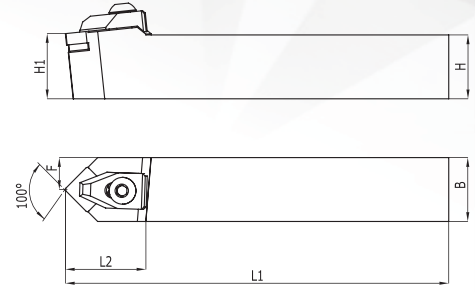


Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TCZNN 001 ISO	✓		20	20	10	125	35	-10	0	CNM. 1204..	CN..012	M4X8 A2,5	T120105	M6X27	A3
TCZNN 002 ISO	✓		25	25	12,5	150	40	-10	0						
TCZNN 003 ISO	✓		32	32	16	170	40	-10	0						
TCZNN 004 ISO	✓		32	32	16	200	40	-10	0	CNM. 1906..	CN..019	M5X8 A2,5	T190105	M8X27	A5
TCZNN 005 ISO	✓		40	40	16	250	40	-10	0						

T-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ T-SYSTEM EXTERNAL TURNING TOOLHOLDERS



► TCMNN ISO



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altlık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TCMNN 001 ISO	✓	20	20	10	125	35	-10	0	CNM. 1204..	CN..012	M4X8 A2,5	T120105	M6X27	A3
TCMNN 002 ISO	✓	25	25	12,5	150	40	-10	0						
TCMNN 003 ISO	✓	32	32	16	170	40	-10	0						



L: Sol/Left
R: Sağ/Right

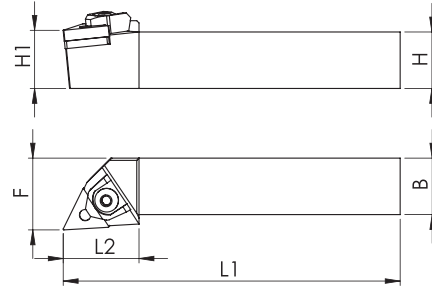
✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

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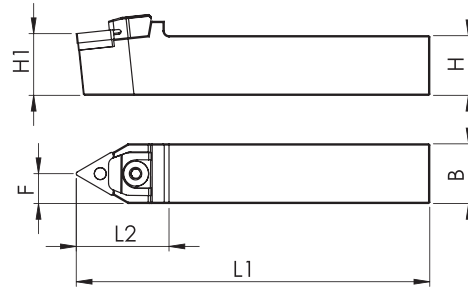

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CUTTING TOOLS

M-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ
M-SYSTEM EXTERNAL TURNING TOOLHOLDERS

► MTJNR ISO


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock
ISO	R L
MTJNR 001 ISO	✓ ✓
MTJNR 002 ISO	✓ ✓
MTJNR 003 ISO	✓ ✓
MTJNR 004 ISO	✓ ✓
MTJNR 005 ISO	✓ ✓
MTJNR 006 ISO	✓ ✓
MTJNR 007 ISO	✓ ✓

Kesici Uç Uyumluluğu Insert Suitability	Stok Stock														
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altılık Shim	Altılık Pimi Lock Pin	Pabuç Clamp	Vida Screw	Anahtar Allen Key
MTJNR 001 ISO	✓	✓	16	16	20	125	35	-6	-6	TNM.1604	TN..016 (P)	5X3.6X15	M160105	M6X27	A3
MTJNR 002 ISO	✓	✓	20	20	25	125	35	-6	-6						
MTJNR 003 ISO	✓	✓	25	25	32	150	40	-6	-6						
MTJNR 004 ISO	✓	✓	32	32	40	170	40	-6	-6						
MTJNR 005 ISO	✓	✓	25	25	32	150	40	-6	-6	TNM.2204	TN..022 (P)	6X5X18	M220105	M6X27	
MTJNR 006 ISO	✓	✓	32	32	40	170	40	-6	-6						
MTJNR 007 ISO	✓	✓	40	40	50	200	45	-6	-6						

► MTENN ISO


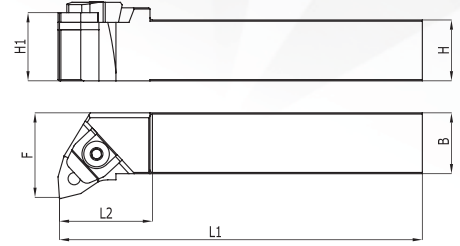
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock
ISO	R L
MTENN 001 ISO	✓ ✓
MTENN 002 ISO	✓ ✓
MTENN 003 ISO	✓ ✓
MTENN 004 ISO	✓ ✓
MTENN 005 ISO	✓ ✓
MTENN 006 ISO	✓ ✓
MTENN 007 ISO	✓ ✓

Kesici Uç Uyumluluğu Insert Suitability	Stok Stock													
ISO		H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altlık Shim	Altlık Pimi Lock Pin	Pabuç Clamp	Vida Screw	Anahtar Allen Key
MTENN 001 ISO	✓	16	16	8	125	35	-10	0	TNM.1604	TN..016 (P)	5X3.6X15	M160105	M5X23	A3
MTENN 002 ISO	✓	20	20	10	125	35	-10	0						
MTENN 003 ISO	✓	25	25	12,5	150	40	-10	0						
MTENN 004 ISO	✓	32	32	16	170	40	-10	0						
MTENN 005 ISO	✓	25	25	12,5	150	40	-10	0	TNM.2204	TN..022 (P)	6X5X18	M220105	M6X27	
MTENN 006 ISO	✓	32	32	16	170	40	-10	0						
MTENN 007 ISO	✓	40	40	20	200	45	-10	0						

M-SİSTEM DIŞ ÇAP TORNALAMA KATERLERİ M-SYSTEM EXTERNAL TURNING TOOLHOLDERS

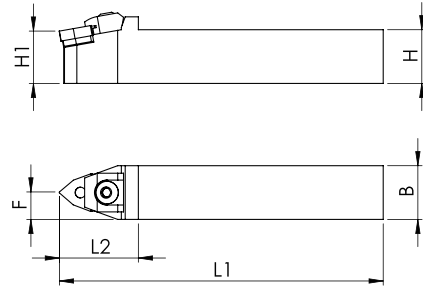


► MWLNR ISO



Kesici Uç Uyumluluğu Insert Suitability			Stok Stock													
ISO	R	L	H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altlık Shim	Altlık Pimi Lock Pin	Pabuç Clamp	Vida Screw	Anahtar Allen Key	
MWLNR 001 ISO	✓	✓	16	16	20	125	35	-6	-6	WNM.0604	-	5X3.6X15	M060105	M5X23	A3	
MWLNR 002 ISO	✓	✓	20	20	25	125	35	-6	-6							
MWLNR 003 ISO	✓	✓	25	25	32	150	40	-6	-6							
MWLNR 004 ISO	✓	✓	20	20	25	125	35	-6	-6	WNM.0804	WN.008(P)	6X5X18	M080105	M6X27		
MWLNR 005 ISO	✓	✓	25	25	32	150	40	-6	-6							
MWLNR 006 ISO	✓	✓	32	32	40	170	40	-6	-6							
MWLNR 007 ISO	✓	✓	40	40	50	200	45	-6	-6							

► MWDNN ISO



														
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock													
ISO		H1 H	B	F	L1	L2	λS	Y0	Uç Insert	Altık Shim	Altık Pimi Lock Pin	Pabuç Clamp	Vida Screw	Anahtar Allen Key
MWDNN 001 ISO	×	16	16	8	125	35	-10	0	WNM.0604	-	5X3.6X15	M060105	M5X23	A3
MWDNN 002 ISO	×	20	20	10	125	35	-10	0						
MWDNN 003 ISO	✓	20	20	10	125	40	-10	0	WNM.0804	WN..08(P)	6X5X18	M080105	M6X27	
MWDNN 004 ISO	✓	25	25	12,5	150	40	-10	0						
MWDNN 005 ISO	×	32	32	16	170	40	-10	0						
MWDNN 006 ISO	×	40	40	20	200	45	-10	0						

L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
× Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

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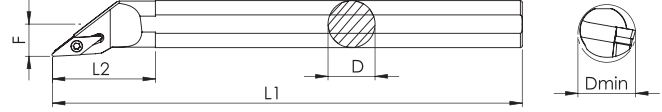
S-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ
S-SYSTEM INTERNAL TURNING TOOLHOLDERS





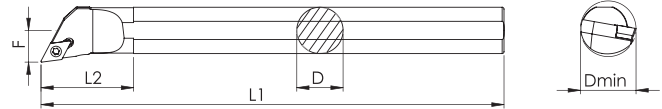
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► **SVJBR ISO**



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock												
ISO	R	L	D	D min	F	L1	L2	λF	YP	Uç Insert	Altık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
SVJBR 001 ISO	✓	✓	25	32	17	250	50	-	-	VCM. 1604..	VC..016	M5X0.5XM3.5	M3.5X11	T15
SVJBR 002 ISO	✓	✓	32	40	23	300	80	-	-					
SVJBR 003 ISO	✓	✓	40	50	27	400	80	-	-					

► **SDPCR ISO**



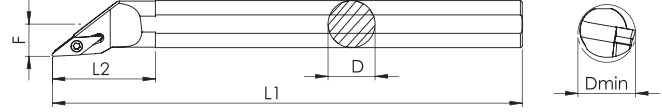
														
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock								Uç Insert	Altlık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
ISO	R	L	D	D min	F	L1	L2	λF	YP	DC.T 0702..	-	-	M2,5X5	T08
SDPCR 001 ISO	✓	✓	10	13	7,5	125	25	-	-				M3.5X8	
SDPCR 002 ISO	✓	✓	12	16	9	150	30	-	-				DC.T 11T3	DC..011
SDPCR 003 ISO	✓	✓	16	20	11	180	35	-	-					
SDPCR 004 ISO	✓	✓	20	25	13	200	40	-	-					
SDPCR 005 ISO	✓	✓	25	32	17,5	250	50	-	-					
SDPCR 006 ISO	✓	✓	32	40	23	300	60	-	-					



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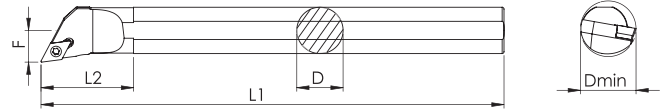
S-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ S-SYSTEM INTERNAL TURNING TOOLHOLDERS

► SVJBR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock												
ISO	R	L	D	D min	F	L1	L2	λF	YP	Uç Insert	Altık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
SVJBR 001 ISO	✓	✓	25	32	17	250	50	-	-	VCM. 1604..	VC..016	M5X0.5XM3.5	M3.5X11	T15
SVJBR 002 ISO	✓	✓	32	40	23	300	80	-	-					
SVJBR 003 ISO	✓	✓	40	50	27	400	80	-	-					

► SDPCR ISO



														
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock								Uç Insert	Altlık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
ISO	R	L	D	D min	F	L1	L2	λF	YP	DC.T 0702..	-	-	M2,5X5	T08
SDPCR 001 ISO	✓	✓	10	13	7,5	125	25	-	-				M3.5X8	T15
SDPCR 002 ISO	✓	✓	12	16	9	150	30	-	-					
SDPCR 003 ISO	✓	✓	16	20	11	180	35	-	-					
SDPCR 004 ISO	✓	✓	20	25	13	200	40	-	-					
SDPCR 005 ISO	✓	✓	25	32	17,5	250	50	-	-	DC.T 11T3	DC..011	M5X0.5XM3.5	M3.5X11	
SDPCR 006 ISO	✓	✓	32	40	23	300	60	-	-					

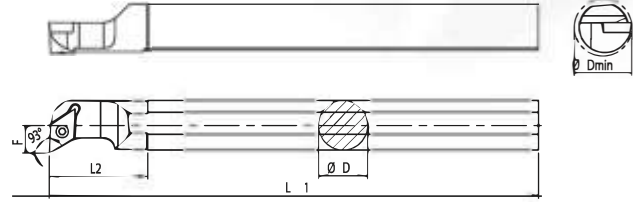
S-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ
S-SYSTEM INTERNAL TURNING TOOLHOLDERS



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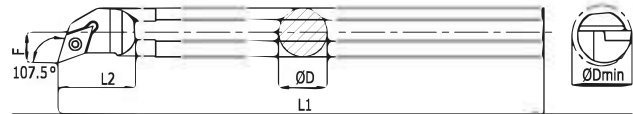
S-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ / S-SYSTEM INTERNAL TURNING TOOLHOLDERS

► **SDUCR ISO**



Kesici Uç Uyumluluğu Insert Suitability														
ISO	R	L	D	D min	F	L1	L2	AF	YP	Insert	Altık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
SDUCR 001 ISO	✓	✓	10	13	7,5	125	25	-11	0	DC.T 0702..			M2,5X5	T08
SDUCR 002 ISO	✓	✓	12	16	9	150	30	-9	0				M2,5X7	
SDUCR 003 ISO	✓	✓	16	20	11	180	35	-9	0				M3.5X8	
SDUCR 004 ISO	✓	✓	16	20	11	180	35	-9	0	DC.T 11T3..			M2,5X7	T08
SDUCR 005 ISO	✓	✓	20	25	13	200	40	-8	0	DC.T 0702..			M3.5X8	T15
SDUCR 006 ISO	✓	✓	20	25	13	200	40	-8	0	DC.T 11T3..			M2,5X7	T08
SDUCR 007 ISO	✓	✓	25	32	17,5	250	50	-8	0	DC.T 0702..				
SDUCR 008 ISO	✓	✓	25	32	17,5	250	50	-8	0	DC.T 11T3..				
SDUCR 009 ISO	✓	✓	32	40	23	300	60	-8	0	DC.T 0702..				
SDUCR 010 ISO	✓	✓	40	50	27	400	60	-8	0	DC.T 11T3..			DC..011	M5X0.5XM3.5

► **SDQCR ISO**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock													
ISO	R	L	D	D min	F	L1	L2	AF	YP	Uç Insert	Altık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
SDQCR 001 ISO	✓	✓	10	13	7,5	125	25	-11	0	DC.T 0702..			M2,5X5	T08
SDQCR 002 ISO	✓	✓	12	16	9	150	30	-9	0				M2,5X7	
SDQCR 003 ISO	✓	✓	16	20	11	180	35	-9	0	DC.T 11T3..			M3.5X8	T15
SDQCR 004 ISO	✓	✓	20	25	13	200	40	-8	0	DC.T 0702..			M2,5X7	T08
SDQCR 005 ISO	✓	✓	16	20	11	180	35	-9	0					
SDQCR 006 ISO	✓	✓	20	25	13	200	40	-8	0	DC.T 11T3..	DC..011	M5X0.5XM3.5	M3.5X11	T15
SDQCR 007 ISO	✓	✓	25	32	17,5	250	50	-8	0					
SDQCR 008 ISO	✓	✓	25	32	17,5	250	50	-8	0					
SDQCR 009 ISO	✓	✓	32	40	23	300	60	-8	0					

L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order

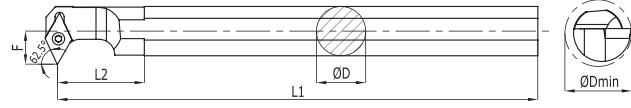
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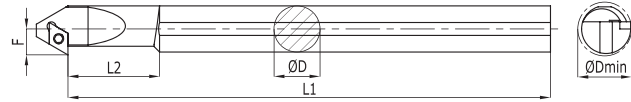
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S-SYSTEM INTERNAL TURNING TOOLHOLDERS

► **SD-CR ISO**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock													
ISO	R	L	D	D min	F	L1	L2	λF	YP	Uç Insert	Altılık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
SD-CR 001 ISO	✓	✓	10	14	8,5	125	28	-9	0	DC.T 0702..	-	-	M2.5X7	T08
SD-CR 002 ISO	✓	✓	12	16	9	150	30	-9	0		-	-		
SD-CR 003 ISO	✓	✓	16	23	14	180	40	-8	0		-	-		
SD-CR 004 ISO	✓	✓	16	23	14	180	40	-8	0	DC.T 11T3..	-	-	M3.5X8	T15
SD-CR 005 ISO	✓	✓	20	25	14,5	200	45	-8	0		-	-		
SD-CR 006 ISO	✓	✓	25	32	19	250	55	-8	0		DC..011	M5X0.5XM3.5	M3.5X11	
SD-CR 007 ISO	✓	✓	32	40	23	300	60	-12	0					
SD-CR 008 ISO	✓	✗	32	50	27	400	70	-10	0					

► **SDXCR ISO**

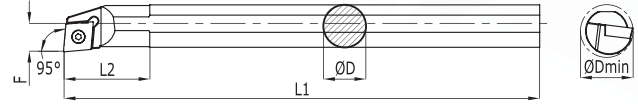


															
Kesici Uç Uyumluluğu Insert Suitability			Stok Stock							Uç Insert	Altılık Shim	Vida Screw	Vida Screw	Anahtar Torx Key	
ISO	R	L	D	D min	F	L1	L2	λF	YP	DC.T 0702..	-	-	M2,5X5	T08	
SDXCR 001 ISO	✓	✓	12	16	9	150	30	-7	0		-	-	M2,5X7		
SDXCR 002 ISO	✓	✓	16	22	12,5	180	40	-9	0		-	-	M3.5X8		
SDXCR 003 ISO	✓	✓	16	22	12,5	180	40	-9	0	DC.T 11T3..	-	-	M3.5X8	T15	
SDXCR 004 ISO	✓	✓	20	25	14	200	55	-9	0		-	-	M3.5X8		
SDXCR 005 ISO	✓	✓	25	32	17,5	250	65	-10	0		DC..011	M5X0.5XM3.5	M3.5X11		
SDXCR 006 ISO	✓	✓	32	40	23	300	80	-13	0						
SDXCR 007 ISO	✓	✓	40	50	27	400	80	-13	0						

S-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ S-SYSTEM INTERNAL TURNING TOOLHOLDERS

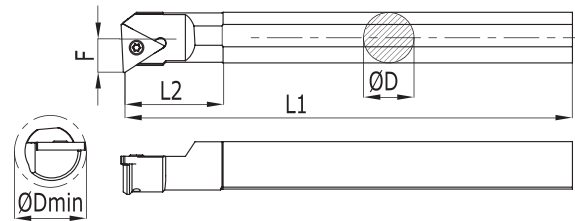


► SCLCR ISO



																	
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock								Uç Insert	Altılık Shim	Vida Screw	Vida Screw	Anahtar Torx Key			
ISO	R	L	D	D min	F	L1	L2	λF	YP	CC.T 0602..	-	-	M2,5X5	T08			
SCLCR/S 001 ISO	✓	✓	8	10	6	100	30	-10	0								
SCLCR/S 002 ISO	✓	✓	8	11	6	100	25	-10	0								
SCLCR/S 003 ISO	✓	✓	10	13	7	125	25	-10	0								
SCLCR/S 004 ISO	✓	✓	8	11	6	100	25	-10	0								
SCLCR/S 005 ISO	✓	✓	12	16	9	150	30	-8	0								
SCLCR/S 006 ISO	✓	✓	16	20	11	180	35	-8	0	CC.T 09T3..	-	-	M2,5X7	T15			
SCLCR/S 007 ISO	✓	✓	16	20	11	180	35	-8	0				M3,5X8				
SCLCR/S 008 ISO	✓	✓	20	25	13	200	40	-8	0				M3,5X11				
SCLCR/S 009 ISO	✓	✓	25	32	17	250	50	-8	0				M3,5X6				
SCLCR/S 010 ISO	✓	✓	32	40	23	300	60	-8	0				CC.T 1204..	CC..12	M6XM4	M4X14	T20
SCLCR/S 011 ISO	✓	✓	25	32	17	250	50	-8	0								
SCLCR/S 012 ISO	✓	✓	32	40	23	300	60	-8	0								
SCLCR/S 013 ISO	✓	X	40	50	27	400	70	-8	0								

► STFCR ISO



														
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock								Uç Insert	Altılık Shim	Vida Screw	Vida Screw	Anahtar Torx Key
ISO	R	L	D	D min	F	L1	L2	λF	YP	TC.T 16T3..	-	-	M3.5X8	T15
STFCR/S 001 ISO	✓	✓	16	20	11	180	35	-9	0					
STFCR/S 002 ISO	✓	✓	20	25	13	200	40	-8	0					
STFCR/S 003 ISO	✓	✓	25	32	17,5	250	50	-8	0					
STFCR/S 004 ISO	✓	✓	32	40	23	300	60	-8	0		TC..016	M5X0.5XM3.5	M3.5X11	



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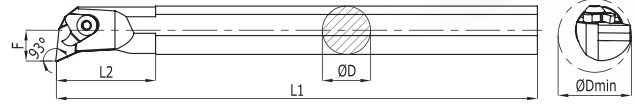
C-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ
C-SYSTEM INTERNAL TURNING TOOLHOLDERS



C-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ C-SYSTEM INTERNAL TURNING TOOLHOLDERS

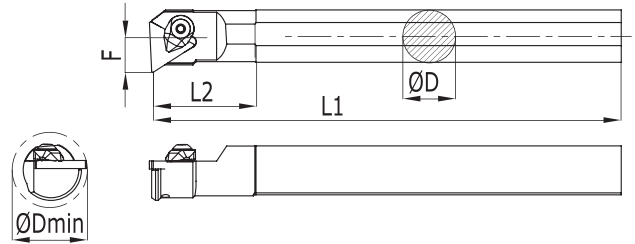


► CKUNR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	D	D min	F	L1	L2	λF	YP	Uç Insert	Altlık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
CKUNR 002 ISO	✓	✓	25	32	17	250	50	-12	-5	KNUX 1604..	KN..016 (R/L)	M3X8 A2.5	C160105	M6X27	A3
CKUNR 003 ISO	✓	✓	32	40	22	300	60	-12	-5						
CKUNR 004 ISO	✓	✓	40	50	27	400	65	-9	-5						
CKUNR 005 ISO	✓	✗	50	63	35	450	70	-7	-5						
CKUNR 006 ISO	✓	✗	60	75	35	450	70	-7	-5						

► CTUPR ISO



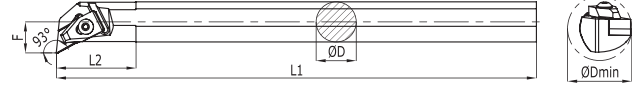
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	D	D min	F	L1	L2	λF	YP	Uç Insert	Altlık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
CTUPR 002 ISO	✓	✗	20	25	13	200	40	-8	-	TPKN 1603	TP..16	M4x10	C160105	M5X23	A3
CTUPR 003 ISO	✓	✗	25	32	17	250	50	-8	-						



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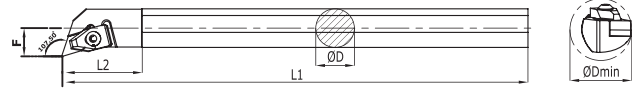
T-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ
T-SYSTEM INTERNAL TURNING TOOLHOLDERS

► **TDUNR ISO**



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	D	D min	F	L1	L2	λF	YP	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TDUNR 001 ISO	✓	✓	20	25	13	200	40	-11	-5	DNM. 1104..	-	-	T110105	M5X15	A3
TDUNR 002 ISO	✓	✓	25	32	17	250	50	-13	-5	DNM. 1506..	DN..015	M4X8 A2.5	T150105	M6X20	
TDUNR 003 ISO	✓	✓	32	40	22	300	60	-12	-5					M6X27	
TDUNR 004 ISO	✓	✓	40	50	27	400	70	-12	-5						
TDUNR 005 ISO	✓	✓	50	63	35	450	75	-12	-5						
TDUNR 006 ISO	✓	✗	60	75	40	450	75	-12	-5						

► **TDQNR ISO**

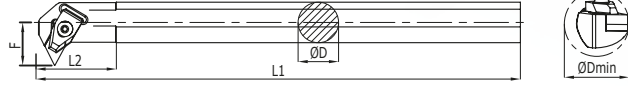


																
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock								Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key	
ISO	R	L	D	D min	F	L1	L2	λF	YP	DNM. 1506..	DN..015	M4X8 A2.5	T150105	M6X20	A3	
TDQNR 000 ISO	✓	X	25	32	17	250	50	-13	-5					M6X27		
TDQNR 001 ISO	✓	X	32	40	22	300	60	-12	-5							
TDQNR 002 ISO	✓	X	40	50	27	400	70	-12	-5							
TDQNR 003 ISO	✓	X	50	63	35	450	75	-12	-5							

T-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ T-SYSTEM INTERNAL TURNING TOOLHOLDERS



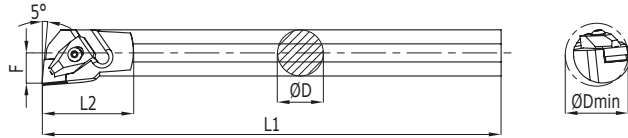
► TD-NR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	D	D min	F	L1	L2	λF	YP	Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TD-NR 001 ISO	✓	X	32	43	26,5	300	60	-15	0	DNM. 1506..	DN..015	M4X8 A2.5	T150105	M6X27	A3
TD-NR 002 ISO	✓	X	40	50	29,5	400	70	-13	0						
TD-NR 003 ISO	✓	X	50	62	35	450	70	-13	0						

Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
DNM. 1506..	DN..015	M4X8 A2.5	T150105	M6X27	A3

► TCLNR ISO



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	
ISO	R	L
TCLNR/S 001 ISO	✓	✓
TCLNR/S 002 ISO	✓	✓
TCLNR/S 003 ISO	✓	X
TCLNR/S 004 ISO	✓	X
TCLNR/S 005 ISO	✓	✓
TCLNR/S 006 ISO	✓	X
TCLNR/S 007 ISO	✓	X

					
Uç Insert	Altılık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
CNM. 1204..	CN..012	M4X8 A2,5	T120105	M6X20	A3
CNM. 1606..	CN..016	M5X8 A3	T160105	M6X27	
CNM. 1204..	CN..012	M4X8 A2,5	T120105		
CNM. 1606..	CN..016	M5X8 A3	T160105		

L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
X Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

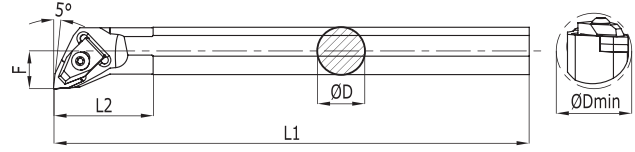
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► TWLNR ISO

T-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ
T-SYSTEM INTERNAL TURNING TOOLHOLDERS



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	D	D min	F	L1	L2	λF	YP	Uç Insert	Altlık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
TWLNR/S 001 ISO	✓	x	16	20	11	180	35	-11	-5	WNM. 0602..	-	-	T060105	M5X15	A3
TWLNR/S 002 ISO	✓	✓	20	25	13	200	40	-11	-5					M6X20	
TWLNR/S 003 ISO	✓	✓	25	32	17	250	50	-13	-5						
TWLNR/S 004 ISO	✓	✓	32	40	22	300	60	-12	-5						
TWLNR/S 005 ISO	✓	x	40	50	27	400	70	-12	-5	WNM. 0804..	WN.008(H)	M4X8 A2.5	T080105	M6X27	
TWLNR/S 006 ISO	✓	x	50	63	35	450	75	-12	-5						
TWLNR/S 007 ISO	✓	x	60	75	40	450	75	-12	-5						

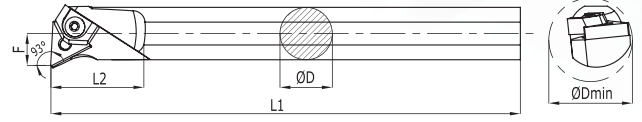
Uç Insert	Altlık Shim	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Allen Key
WNM. 0602..	-	-	T060105	M5X15	A3
WNM. 0804..	WN.008(H)	M4X8 A2.5	T080105	M6X20	
				M6X27	



M-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ M-SYSTEM INTERNAL TURNING TOOLHOLDERS

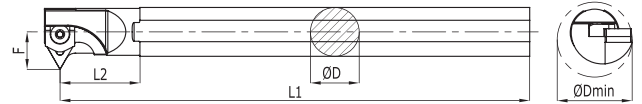


► MTUNR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	D	D min	F	L1	L2	λF	YP	Uç Insert	Altık Shim	Altık Pimi Lock Pin	Pabuç Clamp	Vida Screw	Anahtar Allen Key
MTUNR 001 ISO	✓	✓	20	25	13	200	40	-13	-5	TNM. 1604..	-	-	M160105	M5X15	A3
MTUNR 002 ISO	✓	✓	25	32	17	250	50	-12	-5		TN..016(P)	5X3.6X12.5		M5X23	
MTUNR 003 ISO	✓	✓	32	40	22	300	60	-12	-5			5X3.6X15			
MTUNR 004 ISO	✓	✗	40	50	27	400	70	-12	-5		TNM. 2204..	TN..022(P)	M220105	M6X27	
MTUNR 005 ISO	✓	✓	32	40	22	300	60	-12	-5						
MTUNR 006 ISO	✓	✗	40	50	27	400	70	-12	-5						
MTUNR 007 ISO	✓	✗	50	63	35	450	75	-12	-5						
MTUNR 008 ISO	✓	✗	60	75	40	450	75	-12	-5						

► MT-NR ISO



																
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock								Uç Insert	Altlık Shim	Altlık Pimi Lock Pin	Pabuç Clamp	Vida Screw	Anahtar Allen Key	
ISO	R	L	D	D min	F	L1	L2	λF	YP	TNM. 1604..	-	-	M160105	M5X15	A3	
MT-NR 001 ISO	✓	✓	20	27	16	200	40	-15	0		-	-				
MT-NR 002 ISO	✓	✓	25	33	19,5	250	50	-14	0		TN..016(P)	5X3.6X15				
MT-NR 003 ISO	✓	✓	32	40	23	300	55	-13	0							
MT-NR 004 ISO	✓	✓	40	50	29,5	400	70	-15	0							
MT-NR 005 ISO	✓	✗	50	62	35	450	70	-15	0							

L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

www.sapphiretools.ru



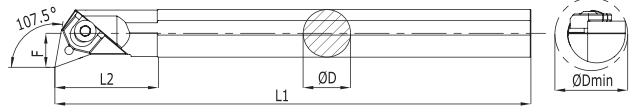
SAPPHIRE

CUTTING TOOLS

M-SİSTEM İÇ ÇAP TORNALAMA KATERLERİ

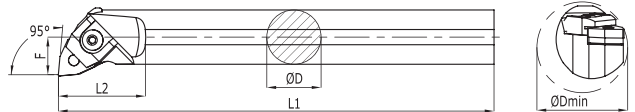
M-SYSTEM INTERNAL TURNING TOOLHOLDERS

► MTQNR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	D	D min	F	L1	L2	λF	YP	Uç Insert	Altık Shim	Altık Pimi Lock Pin	Pabuç Clamp	Vida Screw	Anahtar Allen Key
MTQNR 001 ISO	✓	×	20	25	13	200	40	-13	-5	TNM. 1604..	-	-	M160105	M5X15	A3
MTQNR 002 ISO	✓	×	25	32	17	250	50	-12	-5		TN..016(P)	5X3.6X15		M5X23	
MTQNR 003 ISO	✓	×	32	40	22	300	60	-11	-5						
MTQNR 004 ISO	✓	×	40	50	27	400	70	-11	-5	TNM. 2204..					A3
MTQNR 005 ISO	✓	×	32	40	22	300	60	-11	-5		TN..022(P)	6X5X18	M220105	M6X27	
MTQNR 006 ISO	✓	×	40	50	27	400	70	-11	-5						

► MWLNR ISO



Kesici Uç Uyumluluğu Insert Suitability		Stok Stock													
ISO	R	L	D	D min	F	L1	L2	λF	YP	Uç Insert	Altık Shim	Altık Pimi Lock Pin	Pabuç Clamp	Vida Screw	Anahtar Allen Key
MWLNR/S 001 ISO	✓	×	16	20	11	180	-5	-13	-5	WNM. 0604..	-	5x3,6x15	M060105	M5X15	A3
MWLNR/S 002 ISO	✓	×	20	25	13	200	-5	-13	-5					M6X20	
MWLNR/S 003 ISO	✓	✓	25	32	17	250	-5	-13	-5	WNM. 0804..	WN..008	6x5x15	M080105		
MWLNR/S 004 ISO	✓	✓	32	40	22	300	-5	-12	-5						
MWLNR/S 005 ISO	✓	✓	40	50	27	400	-5	-14	-5						
MWLNR/S 006 ISO	✓	×	50	63	35	450	-5	-12	-5					M6X27	
MWLNR/S 007 ISO	✓	×	60	75	40	450	-5	-12	-5						

ŞAFTLI TARAMALAR
END MILLS



ŞAFTLI TARAMALAR / END MILLS

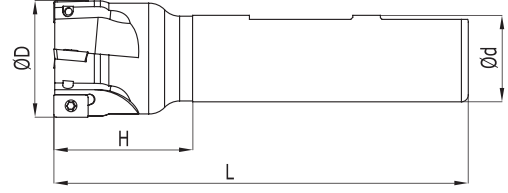


L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

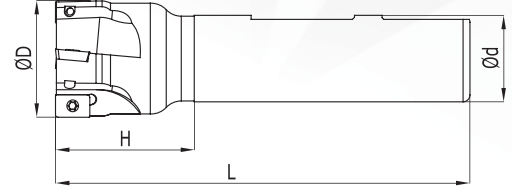
Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

www.sapphiretools.ru

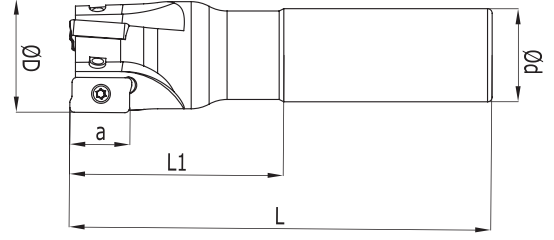

► APKT 1003 ISO


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ISO AP..1003		Inter Cooland	D	Z	H	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST AP..10 001 ISO	✓	✓	12	1	30	120	12			M2.5X6	
ST AP..10 002 ISO	✓	✗	14	1	30	120	12			M2.5X6	
ST AP..10 003 ISO	✓	✓	16	2	30	100	16			M2.5X6	
ST AP..10 004 ISO	✓	✗	16	2	30	120	16			M2.5X6	
ST AP..10 005 ISO	✓	✓	16	2	40	150	16			M2.5X6	
ST AP..10 006 ISO	✓	✗	16	2	50	200	16			M2.5X6	
ST AP..10 007 ISO	✓	✓	16	2	50	250	16			M2.5X6	
ST AP..10 008 ISO	✓	✗	18	2	30	100	16			M2.5X6	
ST AP..10 009 ISO	✓	✓	18	2	30	120	16			M2.5X6	
ST AP..10 010 ISO	✓	✗	18	2	40	150	16			M2.5X6	
ST AP..10 011 ISO	✓	✗	18	2	50	200	16			M2.5X6	
ST AP..10 012 ISO	✓	✓	20	3	30	100	20			M2.5X7	
ST AP..10 013 ISO	✓	✗	20	3	30	120	20			M2.5X7	
ST AP..10 014 ISO	✓	✓	18	2	50	250	16	AP..1003..		M2.5X6	T08
ST AP..10 015 ISO	✓	✗	20	3	40	150	20			M2.5X7	
ST AP..10 016 ISO	✓	✓	20	3	60	200	20			M2.5X7	
ST AP..10 017 ISO	✓	✗	20	3	70	250	20			M2.5X7	
ST AP..10 018 ISO	✓	✓	22	3	30	100	20			M2.5X7	
ST AP..10 019 ISO	✓	✗	22	3	30	120	20			M2.5X7	
ST AP..10 020 ISO	✓	✗	22	3	40	150	20			M2.5X7	
ST AP..10 021 ISO	✓	✓	22	3	50	200	20			M2.5X7	
ST AP..10 022 ISO	✓	✗	22	3	50	250	20			M2.5X7	
ST AP..10 023 ISO	✓	✓	25	3	30	100	25			M2.5X7	
ST AP..10 024 ISO	✓	✗	25	3	30	120	25			M2.5X7	
ST AP..10 025 ISO	✓	✓	25	3	40	150	25			M2.5X7	
ST AP..10 026 ISO	✓	✗	25	3	60	200	25			M2.5X7	
ST AP..10 027 ISO	✓	✓	25	3	70	250	25			M2.5X7	

► APKT 1003 ISO



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ISO AP..1003		Inter Cooland	D	Z	H	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST AP..10 028 ISO	✓	✗	28	4	35	150	25			M2.5X7	
ST AP..10 029 ISO	✓	✗	26	3	35	150	25			M2.5X7	
ST AP..10 030 ISO	✓	✓	26	3	35	200	25			M2.5X7	
ST AP..10 031 ISO	✓	✗	26	3	35	250	25			M2.5X7	
ST AP..10 032 ISO	✓	✓	30	4	30	100	25			M2.5X7	
ST AP..10 033 ISO	✓	✗	30	4	30	120	25			M2.5X7	
ST AP..10 034 ISO	✓	✓	30	3	40	150	25			M2.5X7	
ST AP..10 035 ISO	✓	✗	30	4	40	150	25			M2.5X7	
ST AP..10 036 ISO	✓	✗	30	4	40	200	25			M2.5X7	
ST AP..10 037 ISO	✓	✗	30	3	40	300	25			M2.5X7	
ST AP..10 038 ISO	✓	✓	32	4	40	150	25			M2.5X7	
ST AP..10 039 ISO	✓	✗	32	4	60	150	32			M2.5X7	
ST AP..10 040 ISO	✓	✓	32	4	60	200	32			M2.5X7	
ST AP..10 041 ISO	✓	✗	35	4	30	100	25	AP..1003..		M2.5X7	T08
ST AP..10 042 ISO	✓	✓	35	4	30	120	25			M2.5X7	
ST AP..10 043 ISO	✓	✗	35	4	30	150	25			M2.5X7	
ST AP..10 044 ISO	✓	✓	35	4	30	200	25			M2.5X7	
ST AP..10 045 ISO	✓	✗	35	4	35	100	32			M2.5X7	
ST AP..10 046 ISO	✓	✗	35	4	35	120	32			M2.5X7	
ST AP..10 047 ISO	✓	✗	35	4	35	150	32			M2.5X7	
ST AP..10 048 ISO	✓	✗	40	5	40	100	25			M2.5X7	
ST AP..10 049 ISO	✓	✗	40	5	40	120	25			M2.5X7	
ST AP..10 050 ISO	✓	✗	40	5	40	150	25			M2.5X7	
ST AP..10 051 ISO	✓	✗	40	5	40	200	25			M2.5X7	
ST AP..10 053 ISO	✓	✗	40	5	40	100	32			M2.5X7	
ST AP..10 054 ISO	✓	✓	40	5	40	120	32			M2.5X7	
ST AP..10 055 ISO	✓	✗	40	5	40	150	32			M2.5X7	

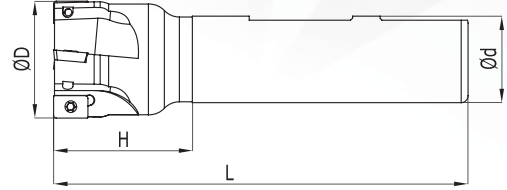

► APKT 1604 ISO


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
AP..1604..		Inter Cooland	D	Z	H	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST AP..16 001 ISO	✓	✓	25	2	37	100	25	AP..1604..	M3.5X8	T15	
ST AP..16 002 ISO	✓	✗	25	2	41	120	25				
ST AP..16 003 ISO	✓	✓	25	2	50	150	25				
ST AP..16 004 ISO	✓	✗	25	2	70	200	25				
ST AP..16 005 ISO	✓	✓	25	2	70	250	25				
ST AP..16 006 ISO	✓	✗	25	2	70	300	25				
ST AP..16 007 ISO	✓	✓	30	3	41	100	25				
ST AP..16 008 ISO	✓	✗	30	3	41	120	25				
ST AP..16 009 ISO	✓	✗	30	3	41	150	25				
ST AP..16 010 ISO	✓	✗	30	3	41	200	25				
ST AP..16 011 ISO	✓	✗	30	3	41	250	25				
ST AP..16 012 ISO	✓	✓	30	3	41	300	25				
ST AP..16 013 ISO	✓	✗	32	3	41	100	25				
ST AP..16 014 ISO	✓	✓	32	3	41	120	25				
ST AP..16 015 ISO	✓	✗	32	3	41	150	25				
ST AP..16 016 ISO	✓	✓	32	3	41	200	25				
ST AP..16 017 ISO	✓	✗	32	3	35	100	32				
ST AP..16 018 ISO	✓	✓	32	3	35	120	32				
ST AP..16 019 ISO	✓	✗	32	3	50	150	32				
ST AP..16 020 ISO	✓	✗	32	3	60	200	32				
ST AP..16 021 ISO	✓	✗	32	3	70	250	32				
ST AP..16 022 ISO	✓	✓	32	3	70	300	32				
ST AP..16 023 ISO	✓	✗	32	3	100	350	32				
ST AP..16 024 ISO	✓	✓	35	3	41	100	25				
ST AP..16 025 ISO	✓	✗	35	3	41	120	25				
ST AP..16 026 ISO	✓	✓	35	3	55	150	25				
ST AP..16 027 ISO	✓	✗	35	3	41	100	32				
ST AP..16 028 ISO	✓	✓	35	3	41	120	32				
ST AP..16 029 ISO	✓	✗	35	3	41	150	32				
ST AP..16 030 ISO	✓	✓	35	3	41	200	32				
ST AP..16 031 ISO	✓	✗	35	3	41	250	32				
ST AP..16 032 ISO	✓	✓	35	3	41	300	32				
ST AP..16 033 ISO	✓	✗	35	3	41	350	32				
ST AP..16 034 ISO	✓	✗	40	4	41	100	25				
ST AP..16 035 ISO	✓	✓	40	4	41	120	25				
ST AP..16 036 ISO	✓	✓	40	4	41	150	25				
ST AP..16 037 ISO	✓	✗	40	4	41	200	25				
ST AP..16 038 ISO	✓	✗	40	4	46	100	32				
ST AP..16 039 ISO	✓	✗	40	4	46	120	32				
ST AP..16 040 ISO	✓	✗	40	4	46	150	32				
ST AP..16 041 ISO	✓	✓	40	4	46	200	32				
ST AP..16 042 ISO	✓	✗	40	4	46	250	32				
ST AP..16 043 ISO	✓	✓	40	4	46	300	32				
ST AP..16 044 ISO	✓	✗	40	4	46	350	32				

ŞAFTLI TARAMALAR END MILLS

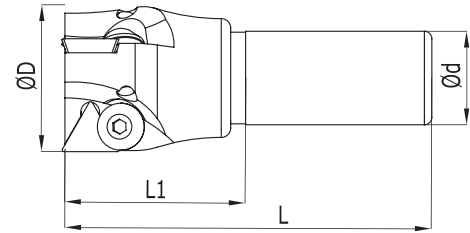


► APMT 11T3



										
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
APMT 11T3..		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
ST APMT 11 001	✓	X	16	2	30	90	16	APMT 11T3..	M2.5X6	T08
ST APMT 11 020	✓	X	16	2	30	120	16			
ST APMT 11 021	✓	X	16	2	30	150	16			
ST APMT 11 004	✓	X	17	2	30	120	16			
ST APMT 11 005	✓	X	17	2	30	200	16			
ST APMT 11 006	✓	X	18	2	30	100	16			
ST APMT 11 007	✓	X	18	2	30	120	16			
ST APMT 11 008	✓	X	20	3	30	120	20			
ST APMT 11 009	✓	X	20	3	40	150	20			
ST APMT 11 010	✓	X	21	3	40	120	20			
ST APMT 11 011	✓	X	21	3	40	140	20			
ST APMT 11 012	✓	X	22	3	40	120	20			
ST APMT 11 013	✓	X	22	3	40	150	20			
ST APMT 11 014	✓	X	25	3	40	150	25			
ST APMT 11 015	✓	X	25	3	40	150	25			
ST APMT 11 016	✓	X	25	3	50	200	25			
ST APMT 11 017	✓	X	30	4	30	120	25			
ST APMT 11 018	✓	X	30	4	40	150	25			
ST APMT 11 019	✓	X	32	4	50	200	32			

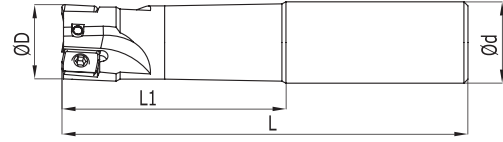
► TPKN 1603 ISO



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ISO		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST TPKN 16 001 ISO	✓	X	35	2	50	100	25		TPKN 1603	M6X0,75	A4
ST TPKN 16 002 ISO	✓	X	40	3	50	100	25				
ST TPKN 16 003 ISO	✓	X	50	3	50	100	25				



► XO.. 0903 SCO

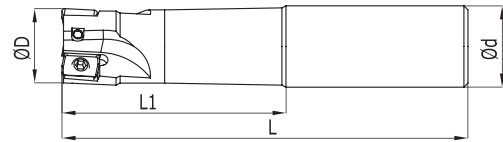


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock
SCO XO..0903..	
ST XO..09 001 SCO	✓
ST XO..09 002 SCO	✓
ST XO..09 003 SCO	✓
ST XO..09 004 SCO	✓
ST XO..09 005 SCO	✓
ST XO..09 006 SCO	✓
ST XO..09 007 SCO	✓
ST XO..09 008 SCO	✓

Inter Cooland	D	Z	L1	L	d
X	16	2	30	100	16
X	16	2	30	130	16
X	16	2	40	150	16
X	16	2	50	200	16
X	20	3	30	120	20
X	20	3	40	150	20
X	20	3	50	200	20
X	25	3	50	150	25

Uç Insert	Vida Screw	Anahtar Torx Key
XO..0903..	M2.5X8	T08

► XOMX 1204 SCO



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock
SCO XOMX 1204..	
ST XOMX 12 001 SCO	✓
ST XOMX 12 002 SCO	✓
ST XOMX 12 003 SCO	✓
ST XOMX 12 004 SCO	✓
ST XOMX 12 005 SCO	✓
ST XOMX 12 006 SCO	✓
ST XOMX 12 007 SCO	✓
ST XOMX 12 008 SCO	✓
ST XOMX 12 009 SCO	✓

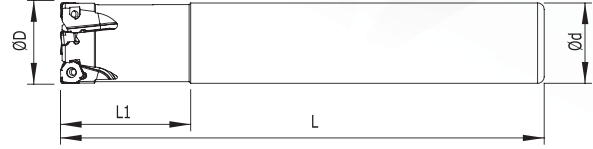
Inter Cooland	D	Z	L1	L	d
X	16	1	30	120	16
X	16	1	40	150	16
X	20	2	30	100	20
X	20	2	40	120	20
X	20	2	50	150	20
X	22	2	30	150	20
X	25	3	40	120	25
X	25	3	50	150	25
X	32	4	30	150	25

Uç Insert	Vida Screw	Anahtar Torx Key
XOMX 1204..	M3,5X6	T15
	M3,5X8	

ŞAFTLI TARAMALAR END MILLS

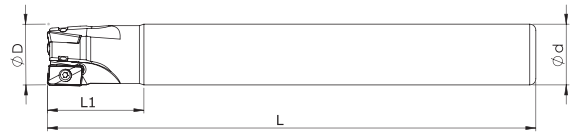


► XNMX 0403 SCO



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
SCO XNMX 0403		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
ST XNMX 04 001 SCO	✓	✓	18	2	35	150	16	XNMX 0403	M2.5x6	T08
ST XNMX 04 002 SCO	✓	✓	18	2	35	200	16			
ST XNMX 04 003 SCO	✓	✓	20	3	40	150	20			
ST XNMX 04 004 SCO	✓	✓	21	3	35	150	20			
ST XNMX 04 005 SCO	✓	✓	21	3	35	200	20			
ST XNMX 04 006 SCO	✓	✓	25	4	40	150	25			
ST XNMX 04 007 SCO	✓	✓	26	4	40	150	25			
ST XNMX 04 008 SCO	✓	✓	32	4	40	150	32			

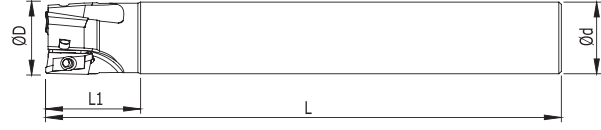
► APKT 11T3 ZCC



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
ZCC APKT 11T3		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
ST APKT 11 001 ZCC	✓	✓	16	2	40	160	16	APKT 11T3	M2.5x6	T08
ST APKT 11 002 ZCC	✓	✓	16	2	50	200	16			
ST APKT 11 003 ZCC	✓	✓	17	2	30	160	16			
ST APKT 11 004 ZCC	✓	✓	17	2	30	200	16			
ST APKT 11 005 ZCC	✓	✓	17	2	30	250	16			
ST APKT 11 006 ZCC	✓	✓	18	2	30	160	16			
ST APKT 11 007 ZCC	✓	✓	20	3	40	160	20			
ST APKT 11 008 ZCC	✓	✓	21	3	30	160	20			
ST APKT 11 009 ZCC	✓	✓	21	3	30	200	20			
ST APKT 11 010 ZCC	✓	✓	21	3	30	250	20			
ST APKT 11 011 ZCC	✓	✓	25	3	40	160	25			
ST APKT 11 012 ZCC	✓	✓	26	3	30	150	25			
ST APKT 11 013 ZCC	✓	✓	26	3	30	200	25			
ST APKT 11 014 ZCC	✓	✓	26	3	30	250	25			

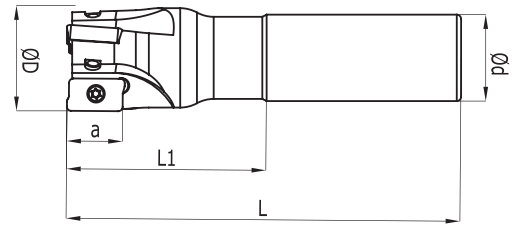


► **APKT 1604 ZCC**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ZCC APKT 1604..		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST APKT 16 001 ZCC	✓	✓	25	2	50	170	25	APKT 1604..	M4X9	T15	
ST APKT 16 002 ZCC	✓	✓	26	2	35	200	25				
ST APKT 16 003 ZCC	✓	✓	32	3	50	170	32				
ST APKT 16 026 ZCC	✓	✓	33	3	35	200	32				
ST APKT 16 027 ZCC	✓	✗	33	3	35	250	32				
ST APKT 16 028 ZCC	✓	✗	33	3	35	300	32				
ST APKT 16 029 ZCC	✓	✗	33	3	35	400	32				

► **ADMT 1204 WLTR**



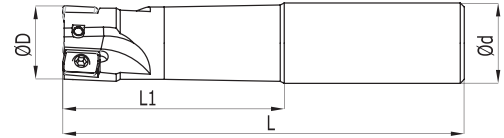
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WLTR ADMT 1204		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST ADMT 12 001 WLTR	✓	✗	20	2	45	120	20	ADMT 1204..	M3X9	T10	
ST ADMT 12 002 WLTR	✓	✗	20	2	50	150	20				
ST ADMT 12 003 WLTR	✓	✗	25	3	45	120	25				
ST ADMT 12 004 WLTR	✓	✗	25	3	55	150	25				
ST ADMT 12 005 WLTR	✓	✗	30	3	40	120	25				
ST ADMT 12 006 WLTR	✓	✗	30	3	40	150	25				
ST ADMT 12 007 WLTR	✓	✗	32	4	60	150	32				
ST ADMT 12 008 WLTR	✓	✗	40	4	40	120	32				
ST ADMT 12 009 WLTR	✓	✗	40	4	40	150	32				

► **ADMT 10T3 WLTR**

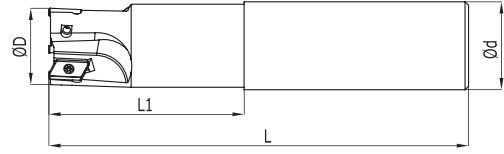


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WLTR ADMT 10T3..		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST ADMT 10 001 WLTR	X	X	16	2	25	90	16		ADMT 10T3..	M2.5X6	T08
ST ADMT 10 002 WLTR	X	X	20	3	35	120	20				
ST ADMT 10 003 WLTR	X	X	25	3	35	120	25				

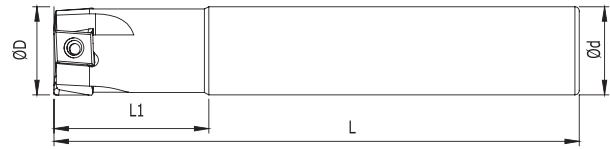
► **AP.. 0903 WLTR**



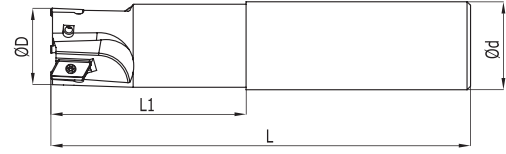
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WLTR AP..0903		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST AP..09 001 WLTR	✓	X	16	2	30	100	16		AP..0903..	M2.5X8	T08
ST AP..09 002 WLTR	✓	X	16	2	30	130	16				
ST AP..09 003 WLTR	✓	X	16	2	40	150	16				
ST AP..09 004 WLTR	✓	X	16	2	50	200	16				
ST AP..09 005 WLTR	✓	X	20	3	30	120	20				
ST AP..09 006 WLTR	✓	X	20	3	40	150	20				
ST AP..09 007 WLTR	✓	X	20	3	50	200	20				


► ADMT 0803 WLTR


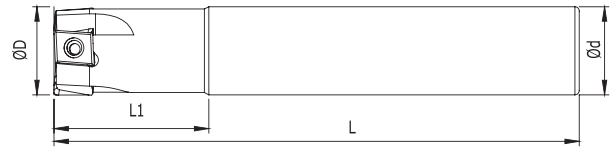
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WLTR ADMT 0803		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST ADMT 08 001 WLTR	✓	✓	16	2	44	150	16				
ST ADMT 08 002 WLTR	✓	✓	20	2	55	200	16				
ST ADMT 08 003 WLTR	✓	✓	20	3	55	150	20				
ST ADMT 08 004 WLTR	✓	✓	20	3	61	200	20				
ST ADMT 08 005 WLTR	✓	✓	26	3	35	150	25				
ST ADMT 08 006 WLTR	✓	✓	26	3	35	200	25				
									ADMT 0803..	M2,5x6	T08

► LNHU 0904 WLTR


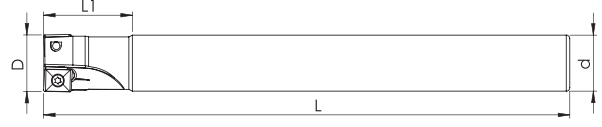
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WLTR LNHU 0904		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST LNHU 09 001 WLTR	✓	✓	20	3	35	120	20				
ST LNHU 09 002 WLTR	✓	✓	20	3	35	150	20				
ST LNHU 09 003 WLTR	✓	✓	25	4	40	120	25				
ST LNHU 09 004 WLTR	✓	✓	25	4	45	150	25				
ST LNHU 09 005 WLTR	✓	✓	32	5	40	120	32				
									LNHU 0904	M3x10	T10


► ADMT 0803 WLTR


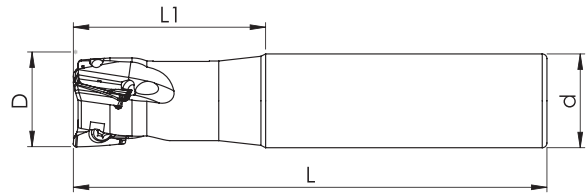
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WLTR ADMT 0803		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST ADMT 08 001 WLTR	✓	✓	16	2	44	150	16	ADMT 0803..	M2,5x6	T08	
ST ADMT 08 002 WLTR	✓	✓	20	2	55	200	16				
ST ADMT 08 003 WLTR	✓	✓	20	3	55	150	20				
ST ADMT 08 004 WLTR	✓	✓	20	3	61	200	20				
ST ADMT 08 005 WLTR	✓	✓	26	3	35	150	25				
ST ADMT 08 006 WLTR	✓	✓	26	3	35	200	25				

► LNHU 0904 WLTR


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WLTR LNHU 0904		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST LNHU 09 001 WLTR	✓	✓	20	3	35	120	20	LNHU 0904	M3x10	T10	
ST LNHU 09 002 WLTR	✓	✓	20	3	35	150	20				
ST LNHU 09 003 WLTR	✓	✓	25	4	40	120	25				
ST LNHU 09 004 WLTR	✓	✓	25	4	45	150	25				
ST LNHU 09 005 WLTR	✓	✓	32	5	40	120	32				

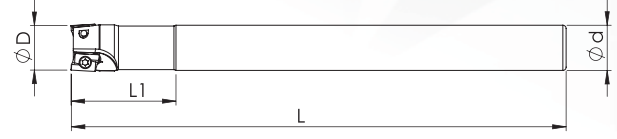

► LPGT 0702 WLTR


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WLTR LPGT 0702		Inter Cooland	D	Z	L1	L	d				
ST LPGT 07 001 WLTR	✓	✗	17	2	25	150	16	Uç Insert	Vida Screw	Anahtar Torx Key	
ST LPGT 07 002 WLTR	✓	✗	21	3	30	150	20	LPGT 0702..	M2.5X6	T8	
ST LPGT 07 003 WLTR	✓	✗	26	4	30	150	25				

► AXMT 1235 SMTM


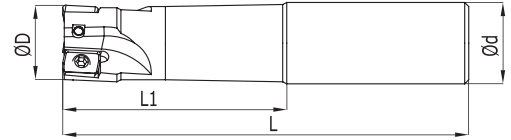
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
SMTM AXMT 1235		Inter Cooland	D	Z	L1	L	d				
ST AXMT 12 001 SMTM	✓	✗	12	1	30	100	12	Uç Insert	Vida Screw	Anahtar Torx Key	
ST AXMT 12 002 SMTM	✓	✗	14	1	30	100	12	AXMT 1235..	M3X6	T10	
ST AXMT 12 003 SMTM	✓	✗	16	1	30	100	16				
ST AXMT 12 004 SMTM	✓	✗	18	2	35	100	16				
ST AXMT 12 005 SMTM	✓	✗	20	3	40	100	20				

► AXMT 0602 SMTM

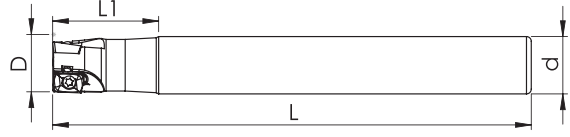


										
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
SMTM AXMT 0602		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
ST AXMT 06 001 SMTM	✓	X	10	2	15	75	10	AXMT 0602..	M1,8x3,5	T06
ST AXMT 06 002 SMTM	✓	X	12	2	20	120	12			
ST AXMT 06 003 SMTM	✓	X	12	3	20	90	12			
ST AXMT 06 004 SMTM	✓	X	14	3	25	100	16			

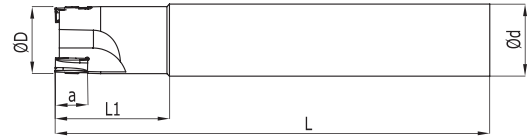
► APKT 1003 PLBT



Kesici Uç Uyumluluğu Insert Suitability								Stok Stock									
PLT APKT 1003..									Inter Cooland	D	Z	H	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
ST APKT 10 001 PLT								X	X	16	2	30	120	16	APKT 1003..	M2.5X6	T08
ST APKT 10 002 PLT								X	X	16	2	40	150	16			
ST APKT 10 003 PLT								X	X	20	3	30	120	20			
ST APKT 10 004 PLT								X	X	20	3	40	150	20			
ST APKT 10 005 PLT								X	X	25	3	30	120	25			
ST APKT 10 006 PLT								X	X	25	3	40	150	25			

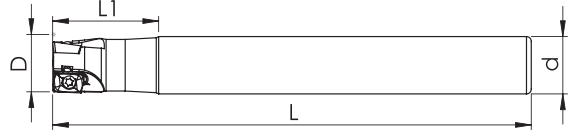

► XPET 0602 PLBT


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
PLBT XPET 0602		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST XPET 06 001 PLBT	✓	✓	8	1	22	100	8	XPET 0602..	M1,8x3,5	T06	
ST XPET 06 002 PLBT	✓	✓	8	1	25	120	8				
ST XPET 06 003 PLBT	✓	✓	10	2	22	120	9				
ST XPET 06 004 PLBT	✓	✓	10	2	22	100	10				
ST XPET 06 006 PLBT	✓	✓	12	3	22	100	12				
ST XPET 06 007 PLBT	✓	✓	12	3	22	100	11				
ST XPET 06 008 PLBT	✓	✓	12	3	22	120	12				
ST XPET 06 009 PLBT	✓	✓	14	3	18	140	12				
ST XPET 06 010 PLBT	✓	✓	16	4	20	160	12				

► LNMT 0804 ISCR


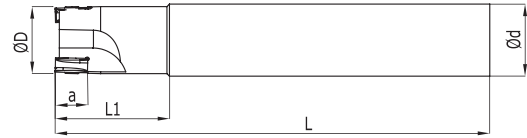
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ISCR LNMT 0804C		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST LN..08C 001 ISCR	✓	×	16	2	30	120	16	LNMT 0804C	M2.5X6	T08	
ST LN..08C 002 ISCR	✓	×	18	2	40	120	20		M2.5X7		
ST LN..08C 003 ISCR	✓	×	20	3	40	120	20				
ST LN..08C 004 ISCR	✓	×	25	3	40	150	25				
ST LN..08C 005 ISCR	✓	×	25	4	40	150	25				
ST LN..08C 006 ISCR	✓	×	27	4	40	120	25				
ST LN..08C 007 ISCR	✓	×	30	4	37	200	25		M2.5X8		

► XPET 0602 PLBT



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Coolant	D	Z	L1	L	d			
PLBT XPET 0602								Uç Insert	Vida Screw	Anahtar Torx Key
ST XPET 06 001 PLBT	✓	✓	8	1	22	100	8	XPET 0602..	M1,8x3,5	T06
ST XPET 06 002 PLBT	✓	✓	8	1	25	120	8			
ST XPET 06 003 PLBT	✓	✓	10	2	22	120	9			
ST XPET 06 004 PLBT	✓	✓	10	2	22	100	10			
ST XPET 06 006 PLBT	✓	✓	12	3	22	100	12			
ST XPET 06 007 PLBT	✓	✓	12	3	22	100	11			
ST XPET 06 008 PLBT	✓	✓	12	3	22	120	12			
ST XPET 06 009 PLBT	✓	✓	14	3	18	140	12			
ST XPET 06 010 PLBT	✓	✓	16	4	20	160	12			

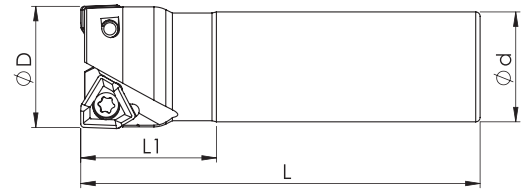
► LNMT 0804 ISCR



										
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock							Uç Insert	Vida Screw	Anahtar Torx Key
ISCR LNMT 0804C		Inter Coolant	D	Z	L1	L	d	LNMT 0804C		T08
ST LN..08C 001 ISCR	✓	✗	16	2	30	120	16		M2.5X6	
ST LN..08C 002 ISCR	✓	✗	18	2	40	120	20		M2.5X7	
ST LN..08C 003 ISCR	✓	✗	20	3	40	120	20		M2.5X8	
ST LN..08C 004 ISCR	✓	✗	25	3	40	150	25			
ST LN..08C 005 ISCR	✓	✗	25	4	40	150	25			
ST LN..08C 006 ISCR	✓	✗	27	4	40	120	25			
ST LN..08C 007 ISCR	✓	✗	30	4	37	200	25			

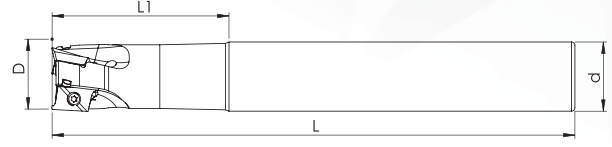

► LNMX 1006 KRLY


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KRLY LNMX 1006		Inter Coolant	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST LNMX 10 000 KRLY	✓	✓	14	1	30	90	16	LNMX 1006		M3X8	T10
ST LNMX 10 001 KRLY	✓	✓	16	1	30	90	16				
ST LNMX 10 002 KRLY	✓	✓	18	2	30	90	16				
ST LNMX 10 003 KRLY	✓	✓	18	2	30	120	16				
ST LNMX 10 004 KRLY	✓	✓	20	2	30	150	18				
ST LNMX 10 005 KRLY	✓	✓	20	2	30	100	20				
ST LNMX 10 006 KRLY	✓	✓	20	2	50	150	20				
ST LNMX 10 007 KRLY	✓	✓	25	3	30	150	24				
ST LNMX 10 008 KRLY	✓	✓	25	2	30	115	25				
ST LNMX 10 009 KRLY	✓	✓	25	3	30	115	25				
ST LNMX 10 010 KRLY	✓	✓	25	3	50	150	25				
ST LNMX 10 011 KRLY	✓	✓	32	3	50	125	32				
ST LNMX 10 012 KRLY	✓	✓	32	4	50	125	32				
ST LNMX 10 013 KRLY	✓	✓	40	4	40	130	32				
ST LNMX 10 014 KRLY	✓	✓	40	5	40	130	32				
ST LNMX 10 015 KRLY	✓	✓	50	5	40	135	32				

► XNKT 0604 KRLY


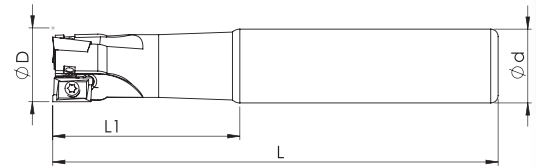
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KRLY 060405 / 080508 XNKT		Inter Coolant	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST XNKT 06 001 KRLY	✓	✓	18	2	30	150	20	XNKT 0604		M3x8	T10
ST XNKT 06 002 KRLY	✓	✓	20	2	30	150	20				
ST XNKT 06 003 KRLY	✓	✓	22	2	30	150	20				
ST XNKT 06 004 KRLY	✓	✓	25	3	50	150	25				
ST XNKT 06 005 KRLY	✓	✓	26	4	30	150	25				
ST XNKT 06 006 KRLY	✓	✓	32	4	50	150	32	XNKT 0805		M4x10	T15
ST XNKT 08 007 KRLY	✓	✓	32	3	50	150	32				

► AOMT 1236 MTSBSH

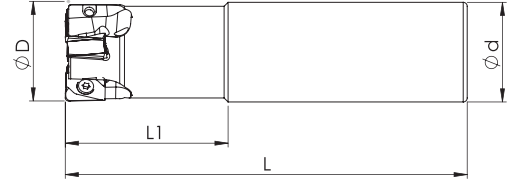


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
MTSBSH AOMT 1236		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST AOMT 12 001 MTSBSH	✓	✓	16	2	40	150	16		AOMT 1236	M2.5x6	T8
ST AOMT 12 002 MTSBSH	✓	✓	17	2	30	150	16				
ST AOMT 12 003 MTSBSH	✓	✓	20	3	50	150	20				
ST AOMT 12 004 MTSBSH	✓	✓	21	3	30	150	20				
ST AOMT 12 005 MTSBSH	✓	✓	25	4	30	150	24				
ST AOMT 12 006 MTSBSH	✓	✓	25	4	50	150	25				
ST AOMT 12 007 MTSBSH	✓	✓	32	4	60	150	32				
ST AOMT 12 008 MTSBSH	✓	✓	32	4	60	160	32				

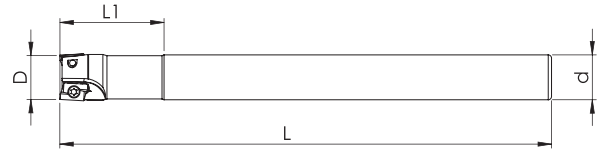
► R390 11T3 SDNVK



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
SDNVK R390-11T3		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST R390 11 001 SDNVK	✓	✓	16	2	44	150	16		R390-11T3	M2,5x6	T8
ST R390 11 002 SDNVK	✓	✓	20	3	50	150	20				
ST R390 11 003 SDNVK	✓	✓	25	3	50	150	25				
ST R390 11 004 SDNVK	✓	✓	20	3	40	100	20				

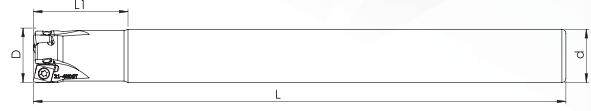

► ANHG 1005 VNDRT


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	L1	L	d			
VNDRT ANHG 1005								Uç Insert	Vida Screw	Anahtar Torx Key
ST ANHG 10 001 VNDRT	✓	✓	20	2	30	90	20	ANHG 1005	M3x10	T10
ST ANHG 10 002 VNDRT	✓	✓	20	2	30	120	20			
ST ANHG 10 003 VNDRT	✓	✓	20	2	50	150	20			
ST ANHG 10 004 VNDRT	✓	✓	25	3	40	100	25			
ST ANHG 10 005 VNDRT	✓	✓	25	3	40	150	25			
ST ANHG 10 006 VNDRT	✓	✓	32	3	40	110	32			

► AXMT 0602 TT


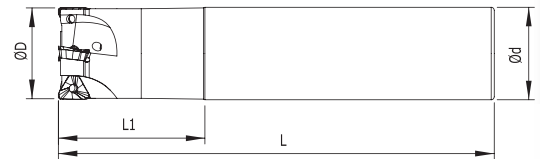
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	L1	L	d			
TT AXMT 0602								Uç Insert	Vida Screw	Anahtar Torx Key
ST AXMT 06 001 TT	✓	✓	10	2	30	120	9	AXMT 0602	M1,8X3,5	T6
ST AXMT 06 002 TT	✓	✓	11	2	30	120	10			
ST AXMT 06 003 TT	✓	✓	12	2	30	120	11			

► 4NKT 0603 TT



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
TT 4NKT 0603		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST 4NKT 06 001 TT	✓	X	16	2	45	120	16		4NKT 0603	M3X8	T10
ST 4NKT 06 002 TT	✓	X	16	2	45	150	16				
ST 4NKT 06 003 TT	✓	X	17	2	35	150	16				
ST 4NKT 06 004 TT	✓	X	17	2	35	200	16				
ST 4NKT 06 005 TT	✓	X	20	3	50	160	20				
ST 4NKT 06 006 TT	✓	X	21	3	35	200	20				
ST 4NKT 06 007 TT	✓	X	25	3	60	200	25				
ST 4NKT 06 008 TT	✓	X	26	3	30	200	25				
ST 4NKT 06 009 TT	✓	X	25	3	60	120	25				
ST 4NKT 06 010 TT	✓	X	20	3	45	120	20				
ST 4NKT 06 011 TT	✓	X	20	2	45	160	20				

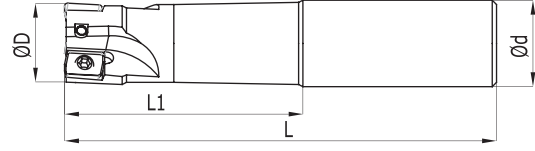
► 3PKT 1004 TT



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
TT 3PKT 1004		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST 3PKT 10 001 TT	✓	✓	20	2	40	150	20		3PKT 1004	M2,5x6	T8
ST 3PKT 10 002 TT	✓	✓	25	3	50	150	25				
ST 3PKT 10 003 TT	X	✓	32	4	35	150	32				

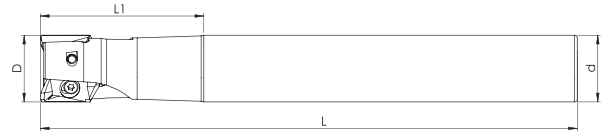


► **BDMT 1103 WDA**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WDA BDMT 1103		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST BDMT 11 002 WDA	✓	✗	16	2	40	150	16	BDMT 1103	M2.5X6	T08	
ST BDMT 11 003 WDA	✓	✗	20	3	30	120	20		M2.5X7		
ST BDMT 11 004 WDA	✓	✗	20	3	40	150	20		M2.5X8		
ST BDMT 11 005 WDA	✓	✗	25	3	30	120	25				

► **EDPT 1404 KNNMTL**



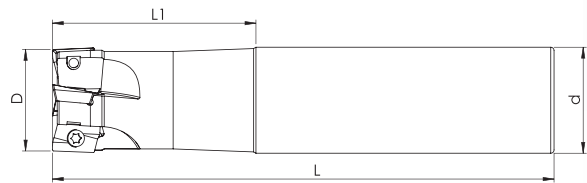
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KNNMTL EDPT 1404		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST EDPT 14 001 KNNMTL	✓	✓	20	2	25	120	20	EDPT 1404	M3x9	T10	
ST EDPT 14 002 KNNMTL	✓	✓	20	2	25	150	20				
ST EDPT 14 003 KNNMTL	✗	✓	25	3	25	120	25				
ST EDPT 14 004 KNNMTL	✓	✓	25	3	25	150	25				

► EDPT 10T3/1805 KNNMTL

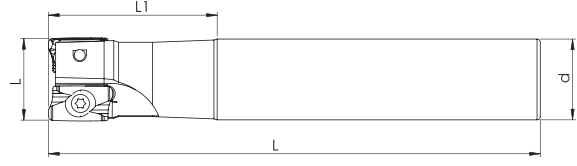


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KNNMTL EDPT 10T3/1805		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST EDPT 10 001 KNNMTL	✓	X	16	2	45	150	16		EDPT 10T3	M2,5x6	T8
ST EDPT 10 002 KNNMTL	✓	X	18	2	30	150	16				
ST EDPT 10 003 KNNMTL	✓	X	20	3	50	150	20				
ST EDPT 10 004 KNNMTL	✓	X	25	3	50	150	25				
ST EDPT 10 005 KNNMTL	X	X	17	2	30	150	16				
ST EDPT 10 006 KNNMTL	X	X	21	3	50	150	20				
ST EDPT 10 007 KNNMTL	X	X	16	2	30	120	14		EDPT 1805	M3,5x8	T15
ST EDPT 18 005 KNNMTL	X	X	25	2	50	200	25				
ST EDPT 18 006 KNNMTL	X	X	32	3	50	200	32				

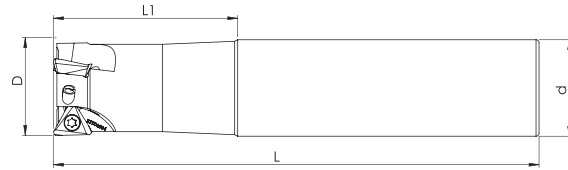
► BOMT 1304 INGRSL



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
INGRSL BOMT 1304		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST BOMT 13 001 INGRSL	✓	X	20	2	45	150	20		BOMT 1304	M3,5X8	T15
ST BOMT 13 002 INGRSL	✓	X	22	2	35	150	20				
ST BOMT 13 003 INGRSL	✓	X	25	3	50	150	25				
ST BOMT 13 004 INGRSL	✓	X	32	4	35	150	25				
ST BOMT 13 005 INGRSL	✓	X	32	4	60	150	32				

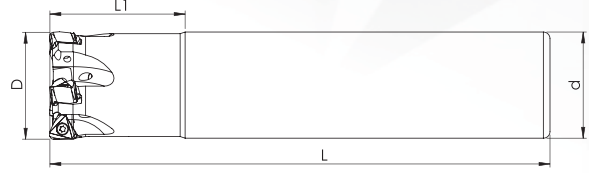

► AOMT 1605 INGRSL


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
INGRSL AOMT 1605		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST AOMT 16 001 INGRSL	✓	×	25	2	40	120	25	AOMT 1605	M4X9	T15	
ST AOMT 16 002 INGRSL	✓	×	25	2	50	150	25				
ST AOMT 16 003 INGRSL	✓	×	25	2	60	200	25				
ST AOMT 16 004 INGRSL	✓	×	32	3	40	150	25				
ST AOMT 16 005 INGRSL	✓	×	32	3	50	150	32				

► TOMT 0603/1004 TNGLY


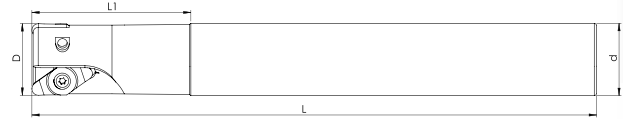
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
TNGLY TOMT 0603/1004		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST TOMT 06 001 TNGLY	✓	✓	16	2	40	150	16	TOMT 0603	M3X6	T10	
ST TOMT 06 002 TNGLY	✓	✓	18	2	30	150	16				
ST TOMT 06 003 TNGLY	✓	✓	20	3	40	150	20				
ST TOMT 10 004 TNGLY	✓	✓	25	2	60	160	25	TOMT 1004	M3,5X8	T15	
ST TOMT 10 005 TNGLY	✓	✓	32	3	60	160	32				

► TNGX 1004 PRMT



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
PRMT TNGX 1004		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST TNGX 10 001 PRMT	✓	✓	18	2	35	150	16		TNGX 1004	M2,5X7	T8
ST TNGX 10 002 PRMT	✓	✓	21	3	35	150	20				
ST TNGX 10 003 PRMT	✓	✓	26	4	35	150	25				
ST TNGX 10 004 PRMT	✓	✓	26	4	35	200	25				
ST TNGX 10 005 PRMT	✓	✓	33	5	40	150	32				
ST TNGX 10 006 PRMT	✓	✓	33	5	40	200	32				

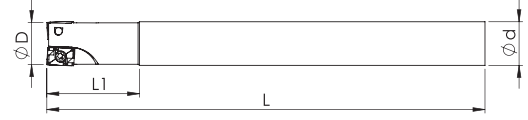
► VCGT 2205/1604 ISO



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ISO VCGT 220530/160408		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST VCGT 22 001 ISO	✓	X	32	2	70	250	32		VCGT 2205	M5X12	T20
ST VCGT 22 002 ISO	✓	X	33	2	50	250	32		VCGT 1604	M4X11	T15
ST VCGT 16 003 ISO	✓	X	32	3	80	300	32				

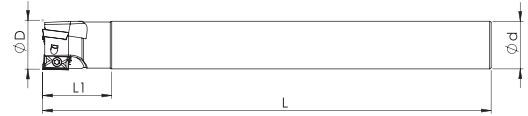


► **BDMT 0703 KYCR**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	L1	L	d			
KYCR BDMT 0703								Uç Insert	Vida Screw	Anahtar Torx Key
ST BDMT 07 001 KYCR	✓	✓	10	1	20	100	10	BDMT 0703	M2X5	T6
ST BDMT 07 002 KYCR	✓	✓	11	2	25	120	10			
ST BDMT 07 003 KYCR	✓	✓	12	2	25	120	11			
ST BDMT 07 004 KYCR	✓	✓	12	2	30	120	12			
ST BDMT 07 005 KYCR	✓	✓	16	3	30	120	16		M2X6	

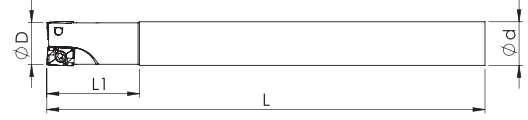
► **BDMT 1704 KYCR**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	L1	L	d			
KYCR BDMT 1704								Uç Insert	Vida Screw	Anahtar Torx Key
ST BDMT 17 001 KYCR	✓	✓	25	2	60	160	25	BDMT 1704	M4X8	T15
ST BDMT 17 002 KYCR	✓	✓	25	2	60	200	25			
ST BDMT 17 003 KYCR	✓	✓	32	3	70	200	32			
ST BDMT 17 004 KYCR	✓	✓	32	3	70	260	32			
ST BDMT 17 005 KYCR	✓	✓	33	3	45	250	32			
ST BDMT 17 006 KYCR	✓	✓	33	3	45	300	32			

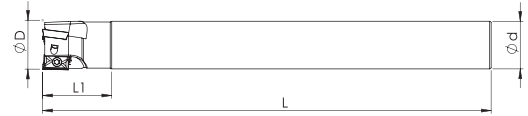


► **BDMT 0703 KYCR**



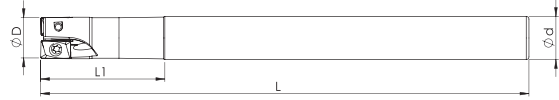
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	L1	L	d			
KYCR BDMT 0703								Uç Insert	Vida Screw	Anahtar Torx Key
ST BDMT 07 001 KYCR	✓	✓	10	1	20	100	10	BDMT 0703	M2X5	T6
ST BDMT 07 002 KYCR	✓	✓	11	2	25	120	10			
ST BDMT 07 003 KYCR	✓	✓	12	2	25	120	11			
ST BDMT 07 004 KYCR	✓	✓	12	2	30	120	12			
ST BDMT 07 005 KYCR	✓	✓	16	3	30	120	16		M2X6	

► **BDMT 1704 KYCR**



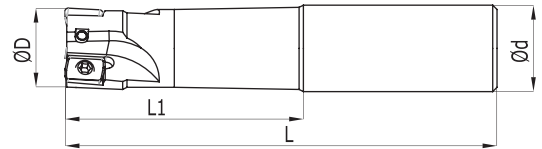
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	L1	L	d			
KYCR BDMT 1704								Uç Insert	Vida Screw	Anahtar Torx Key
ST BDMT 17 001 KYCR	✓	✓	25	2	60	160	25	BDMT 1704	M4X8	T15
ST BDMT 17 002 KYCR	✓	✓	25	2	60	200	25			
ST BDMT 17 003 KYCR	✓	✓	32	3	70	200	32			
ST BDMT 17 004 KYCR	✓	✓	32	3	70	260	32			
ST BDMT 17 005 KYCR	✓	✓	33	3	45	250	32			
ST BDMT 17 006 KYCR	✓	✓	33	3	45	300	32			

► LOMU 1004 KYCR



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KYCR LOMU 1004		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST LOMU 10 001 KYCR	✓	✓	16	2	36	100	16		LOMU 1004	M3X8	T10
ST LOMU 10 002 KYCR	✓	✓	16	2	36	160	16				
ST LOMU 10 003 KYCR	✓	✓	17	2	36	180	16				
ST LOMU 10 004 KYCR	✓	✓	20	2	36	110	20				
ST LOMU 10 005 KYCR	✓	✓	20	2	36	150	20				
ST LOMU 10 006 KYCR	✓	✓	20	3	36	200	20				
ST LOMU 10 007 KYCR	✓	✓	21	3	36	180	20				
ST LOMU 10 008 KYCR	✓	✓	25	3	36	120	25				
ST LOMU 10 009 KYCR	✓	✓	25	3	36	180	25				
ST LOMU 10 010 KYCR	✓	✓	16	2	36	150	16				
ST LOMU 10 011 KYCR	✓	✓	25	3	36	150	25				

► APCT 1135 KLP



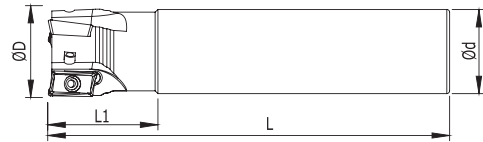
Kesici Uç Uyumluluğu Insert Suitability								Stok Stock				
KLP APCT 1135		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key		
ST APCT 11 001 KLP	✓	✗	12	1	30	120	12	APCT 1135..	M2.5X6	T08		
ST APCT 11 002 KLP	✓	✓	16	2	30	150	14					
ST APCT 11 003 KLP	✓	✓	16	2	30	100	16					
ST APCT 11 004 KLP	✓	✓	16	2	30	120	16					
ST APCT 11 005 KLP	✓	✗	16	2	40	150	16					
ST APCT 11 006 KLP	✓	✓	18	2	40	150	16					
ST APCT 11 007 KLP	✓	✓	20	2	30	100	20					
ST APCT 11 008 KLP	✓	✓	20	2	30	120	20					
ST APCT 11 009 KLP	✓	✗	20	3	40	150	20					
ST APCT 11 010 KLP	✓	✓	20	3	40	250	20					
ST APCT 11 011 KLP	✓	✓	20	3	40	350	20					
ST APCT 11 012 KLP	✓	✓	22	3	40	150	20					
ST APCT 11 013 KLP	✓	✗	25	3	30	150	24					
ST APCT 11 014 KLP	✓	✓	25	3	30	100	25					
ST APCT 11 015 KLP	✓	✓	25	3	30	120	25					
ST APCT 11 016 KLP	✓	✗	25	3	40	150	25					
ST APCT 11 017 KLP	✓	✗	27	3	40	150	25					
ST APCT 11 018 KLP	✓	✗	32	4	30	120	32					
ST APCT 11 019 KLP	✓	✗	32	4	40	150	32					
ST APCT 11 020 KLP	✓	✗	35	4	40	150	32					

► APXT 1003 KLP



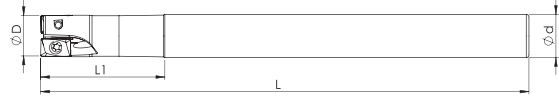
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP APXT 1003		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST APXT 10 001 KLP	✓	X	16	2	30	100	16				
ST APXT 10 002 KLP	✓	X	16	2	30	120	16				
ST APXT 10 003 KLP	✓	X	16	2	40	150	16				
ST APXT 10 004 KLP	✓	X	17	2	40	150	16				
ST APXT 10 005 KLP	✓	X	17	2	40	200	16				
ST APXT 10 006 KLP	✓	X	17	2	40	250	16				
ST APXT 10 007 KLP	✓	X	18	2	40	150	16				
ST APXT 10 008 KLP	✓	X	20	3	30	100	20				
ST APXT 10 009 KLP	✓	X	20	3	30	120	20				
ST APXT 10 010 KLP	✓	X	20	3	40	150	20				
ST APXT 10 011 KLP	✓	X	21	3	40	150	20				
ST APXT 10 012 KLP	✓	X	21	3	40	200	20				
ST APXT 10 013 KLP	✓	X	21	3	40	250	20				
ST APXT 10 014 KLP	✓	X	22	3	40	150	20				
ST APXT 10 015 KLP	✓	X	25	3	30	100	25				
ST APXT 10 016 KLP	✓	X	25	3	30	120	25				
ST APXT 10 017 KLP	✓	X	25	3	40	150	25				
ST APXT 10 018 KLP	✓	X	27	3	40	150	25				
ST APXT 10 019 KLP	✓	X	25	4	40	200	25				
ST APXT 10 020 KLP	✓	X	25	4	40	250	25				
ST APXT 10 021 KLP	✓	X	35	4	40	150	32				

► APKT 1604 KLP



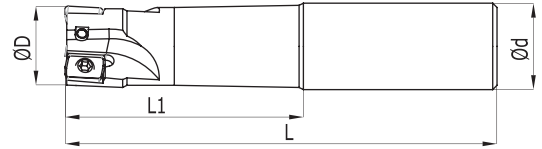
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP APKT 1604		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST AP..16 001 KLP	✓	✓	25	2	50	150	25				
ST AP..16 002 KLP	✓	✓	26	2	50	150	25				
ST AP..16 003 KLP	✓	✓	32	3	50	150	25				
ST AP..16 004 KLP	✓	✓	32	3	50	150	32				
ST AP..16 005 KLP	✓	✓	35	3	40	150	32				
ST AP..16 007 KLP	✓	✓	30	3	35	150	25				
ST AP..16 008 KLP	✓	✓	33	3	50	150	32				
ST AP..16 009 KLP	✓	✓	40	4	60	150	40				

► LOMU 1004 KYCR



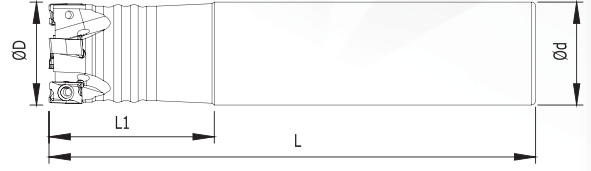
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KYCR LOMU 1004		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST LOMU 10 001 KYCR	✓	✓	16	2	36	100	16		LOMU 1004	M3X8	T10
ST LOMU 10 002 KYCR	✓	✓	16	2	36	160	16				
ST LOMU 10 003 KYCR	✓	✓	17	2	36	180	16				
ST LOMU 10 004 KYCR	✓	✓	20	2	36	110	20				
ST LOMU 10 005 KYCR	✓	✓	20	2	36	150	20				
ST LOMU 10 006 KYCR	✓	✓	20	3	36	200	20				
ST LOMU 10 007 KYCR	✓	✓	21	3	36	180	20				
ST LOMU 10 008 KYCR	✓	✓	25	3	36	120	25				
ST LOMU 10 009 KYCR	✓	✓	25	3	36	180	25				
ST LOMU 10 010 KYCR	✓	✓	16	2	36	150	16				
ST LOMU 10 011 KYCR	✓	✓	25	3	36	150	25				

► APCT 1135 KLP



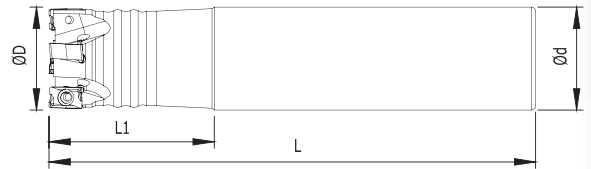
										
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock							Uç Insert	Vida Screw	Anahtar Torx Key
KLP APCT 1135		Inter Cooland	D	Z	L1	L	d			
ST APCT 11 001 KLP	✓	✗	12	1	30	120	12	APCT 1135..	M2.5X6	T08
ST APCT 11 002 KLP	✓	✓	16	2	30	150	14			
ST APCT 11 003 KLP	✓	✓	16	2	30	100	16			
ST APCT 11 004 KLP	✓	✓	16	2	30	120	16			
ST APCT 11 005 KLP	✓	✗	16	2	40	150	16		M2.5X7	
ST APCT 11 006 KLP	✓	✓	18	2	40	150	16			
ST APCT 11 007 KLP	✓	✓	20	2	30	100	20			
ST APCT 11 008 KLP	✓	✓	20	2	30	120	20			
ST APCT 11 009 KLP	✓	✗	20	3	40	150	20			
ST APCT 11 010 KLP	✓	✓	20	3	40	250	20			
ST APCT 11 011 KLP	✓	✓	20	3	40	350	20			
ST APCT 11 012 KLP	✓	✓	22	3	40	150	20			
ST APCT 11 013 KLP	✓	✗	25	3	30	150	24			
ST APCT 11 014 KLP	✓	✓	25	3	30	100	25			
ST APCT 11 015 KLP	✓	✓	25	3	30	120	25			
ST APCT 11 016 KLP	✓	✗	25	3	40	150	25			
ST APCT 11 017 KLP	✓	✗	27	3	40	150	25			
ST APCT 11 018 KLP	✓	✗	32	4	30	120	32			
ST APCT 11 019 KLP	✓	✗	32	4	40	150	32			
ST APCT 11 020 KLP	✓	✗	35	4	40	150	32			

► LNMX 1006 KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP LNMX 1006		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST LNMX 10 001 KLP	✓	✓	18	2	25	120	16	LNMX 1006	M3x9	T10	
ST LNMX 10 002 KLP	✓	✓	20	2	40	150	20				
ST LNMX 10 003 KLP	✓	✓	26	3	35	150	25				
ST LNMX 10 004 KLP	✓	✓	32	4	50	150	32				
ST LNMX 10 005 KLP	✓	✓	40	3	50	150	32				

► LNMX 1510 KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP LNMX 1510		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST LNMX 15 001 KLP	✓	✓	32	3	40	150	32	LNMX 1510	M4x10	T15	
ST LNMX 15 002 KLP	✓	✓	32	3	40	200	25				
ST LNMX 15 002 KLP	✓	✓	32	3	40	200	32				

► LNMX 1006 KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP LNMX 1006		Inter Cooland	D	Z	L1	L	d				
ST LNMX 10 001 KLP	✓	✓	18	2	25	120	16				
ST LNMX 10 002 KLP	✓	✓	20	2	40	150	20				
ST LNMX 10 003 KLP	✓	✓	26	3	35	150	25				
ST LNMX 10 004 KLP	✓	✓	32	4	50	150	32				
ST LNMX 10 005 KLP	✓	✓	40	3	50	150	32				



Uç
Insert

Vida
Screw

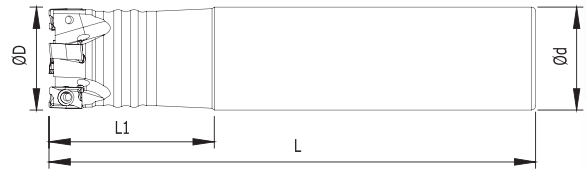
Anahtar
Torx Key

LNMX 1006

M3x9

T10

► LNMX 1510 KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP LNMX 1510		Inter Cooland	D	Z	L1	L	d				
ST LNMX 15 001 KLP	✓	✓	32	3	40	150	32				
ST LNMX 15 002 KLP	✓	✓	32	3	40	200	25				
ST LNMX 15 002 KLP	✓	✓	32	3	40	200	32				



Uç
Insert

Vida
Screw

Anahtar
Torx Key

LNMX 1510

M4x10

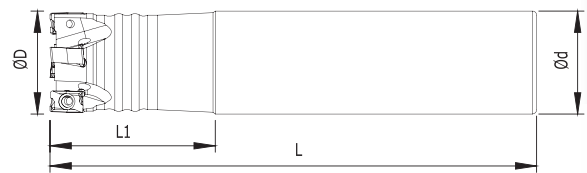
T15

► LNMX 1006 KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP LNMX 1006		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST LNMX 10 001 KLP	✓	✓	18	2	25	120	16	LNMX 1006	M3x9	T10	
ST LNMX 10 002 KLP	✓	✓	20	2	40	150	20				
ST LNMX 10 003 KLP	✓	✓	26	3	35	150	25				
ST LNMX 10 004 KLP	✓	✓	32	4	50	150	32				
ST LNMX 10 005 KLP	✓	✓	40	3	50	150	32				

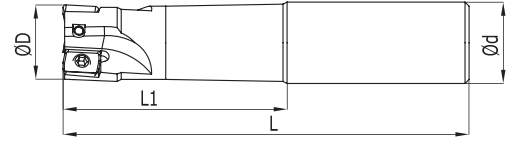
► LNMX 1510 KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KLP LNMX 1510		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST LNMX 15 001 KLP	✓	✓	32	3	40	150	32	LNMX 1510	M4x10	T15	
ST LNMX 15 002 KLP	✓	✓	32	3	40	200	25				
ST LNMX 15 002 KLP	✓	✓	32	3	40	200	32				



► **ADMX 11T3 PRMT**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock
PRMT ADMX 11T3	
ST ADMX 11 001 PRMT	✓
ST ADMX 11 002 PRMT	✓
ST ADMX 11 003 PRMT	✓
ST ADMX 11 004 PRMT	✓
ST ADMX 11 005 PRMT	✓

Inter Cooland	D	Z	H	L	d
✗	12	1	40	120	12
✗	16	2	50	150	16
✗	20	3	50	150	20
✗	25	3	70	200	25
✗	32	4	75	200	32

		
Uç Insert	Vida Screw	Anahtar Torx Key
ADMX 11T3..	M2,5X5	T08
	M2,5X6	
	M2,5X7	

► **QXMT 17 ISO**

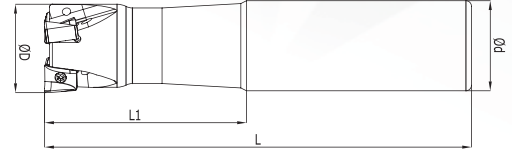


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock
ISO QXMT 17	
ST QXMT 17 001 ISO	✓
ST QXMT 17 002 ISO	✓
ST QXMT 17 003 ISO	✓
ST QXMT 17 004 ISO	✓

Inter Cooland	D	Z	L1	L	d
✗	25	2	70	150	25
✗	28	2	50	150	25
✗	28	2	50	160	25
✗	35	3	50	150	25

		
Uç Insert	Vida Screw	Anahtar Torx Key
QXMT 17	M4X8	T15

► LNGX 1205 PRMT/VNDRT



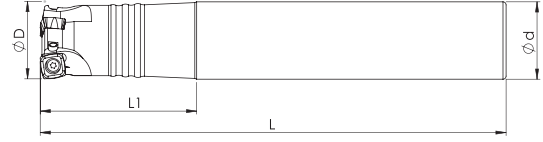
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
PRMT/VNDRT LNGX 1205		Inter Coolant	D	Z	H	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST LNGX 12 001 VNDRT	✓	X	25	3	50	150	25		LNGX 1205	M3,5X10	T15
ST LNGX 12 002 VNDRT	✓	X	32	3	50	150	32				



SAPPHIRE
CUTTING TOOLS

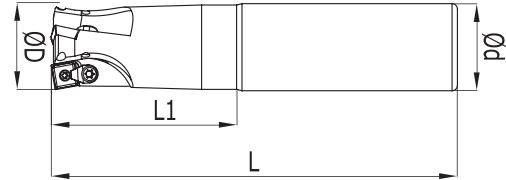
ŞAFTLI TARAMALAR - HIGH FEED
END MILLS - HIGH FEED

► SDMT 07/09 KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
KLP SDMT 0703/09T3										
ST SDMT 07 001 KLP	✓	✓	20	2	45	120	20	SDMT 0703	M3	T10
ST SDMT 07 002 KLP	✓	✓	20	2	25	150	20			
ST SDMT 07 003 KLP	✓	✓	21	2	25	150	20			
ST SDMT 07 004 KLP	✓	✓	25	2	50	150	25	SDMT 09T3	M3,5	T15
ST SDMT 09 005 KLP	✓	✓	26	2	35	150	25			
ST SDMT 09 006 KLP	✓	✓	32	3	37	150	25			
ST SDMT 09 007 KLP	✓	✓	32	3	70	150	32	SDMT 0703	M3	T10
ST SDMT 09 008 KLP	✓	✓	32	4	70	150	32			

► SDMT 06/09 ZCC

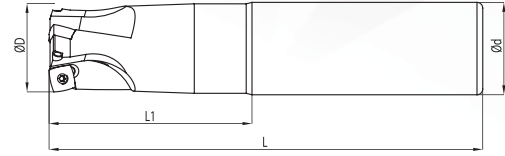


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key
ZCC SDMT 06/09												
ST SDMT 06 001 ZCC	✓	✓	12	1	25	120	12	SDMT 06T2	M2,2x5	-	-	T15
ST SDMT 06 002 ZCC	✓	✓	16	2	40	150	16					
ST SDMT 06 003 ZCC	✓	✓	17	2	25	160	16					
ST SDMT 06 004 ZCC	✓	✓	17	2	25	170	16					
ST SDMT 06 005 ZCC	✓	✓	20	2	40	150	20					
ST SDMT 06 006 ZCC	✓	✓	20	3	40	150	20					
ST SDMT 06 007 ZCC	✓	✓	21	3	25	200	20					
ST SDMT 06 008 ZCC	✓	✓	22	3	25	150	20					
ST SDMT 06 009 ZCC	✓	✓	25	4	50	150	25					
ST SDMT 06 010 ZCC	✓	✓	25	4	50	180	25					
ST SDMT 06 011 ZCC	✓	✓	26	4	30	200	25					
ST SDMT 06 012 ZCC	✓	✓	32	5	60	200	32					
ST SDMT 09 001 ZCC	✓	✓	22	2	25	150	20	SDMT 09T3	M3,5X8	CK14	M3,5X10	T15
ST SDMT 09 002 ZCC	✓	✓	22	2	25	170	20					
ST SDMT 09 003 ZCC	✓	✓	25	2	60	150	25					
ST SDMT 09 005 ZCC	✓	✓	25	2	40	160	25					
ST SDMT 09 006 ZCC	✓	✓	26	2	30	200	25					
ST SDMT 09 007 ZCC	✓	✓	32	3	30	150	25					
ST SDMT 09 008 ZCC	✓	✓	32	3	50	150	32					
ST SDMT 09 009 ZCC	✓	✓	32	3	50	160	32					
ST SDMT 09 010 ZCC	✓	✓	32	3	50	170	32					
ST SDMT 09 011 ZCC	✓	✓	33	4	30	200	32					

ŞAFTLI TARAMALAR - HIGH FEED
END MILLS - HIGH FEED



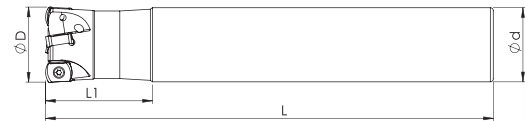
► SP.. 08T3 PLBT



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock
PLBT SP..08T3	
ST SPKT 08 001 PLBT	X
ST SPKT 08 002 PLBT	X

Uç Insert	Vida Screw	Anahtar Torx Key
SP..09T308	M3X10	T10

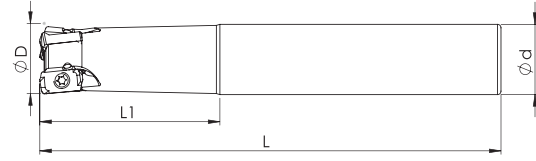
► BLM. 0603 TT



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock
TT BLM. 0603	
ST BLMP 06 001 TT	✓
ST BLMP 06 002 TT	✓
ST BLMP 06 003 TT	✓
ST BLMP 06 004 TT	✓
ST BLMP 06 005 TT	✓
ST BLMP 06 006 TT	✓
ST BLMP 06 007 TT	✓
ST BLMP 06 008 TT	✓
ST BLMP 06 009 TT	✓
ST BLMP 06 010 TT	✓
ST BLMP 06 011 TT	✓

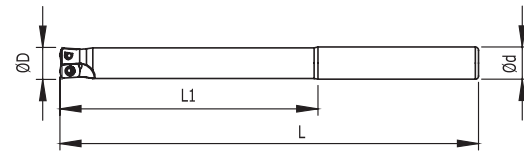
Uç Insert	Vida Screw	Anahtar Torx Key
BLM.0603	M2,5X8	T8

► LOGU 0303 KYCR



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KYCR LOGU 030310		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST LOGU 03 001 KYCR	✓	✓	16	2	30	100	16	LOGU 0303	M3x8	T10	
ST LOGU 03 002 KYCR	✓	✓	16	2	60	160	16				
ST LOGU 03 003 KYCR	✓	✓	16	2	60	200	16				
ST LOGU 03 004 KYCR	✓	✓	17	2	25	160	16				
ST LOGU 03 005 KYCR	✓	✓	17	2	25	200	16				
ST LOGU 03 006 KYCR	✓	✓	18	2	25	160	16				
ST LOGU 03 007 KYCR	✓	✓	20	3	50	130	20				
ST LOGU 03 008 KYCR	✓	✓	20	3	60	160	20				
ST LOGU 03 009 KYCR	✓	✓	20	3	60	220	20				
ST LOGU 03 010 KYCR	✓	✓	21	3	25	160	20				
ST LOGU 03 011 KYCR	✓	✓	22	3	25	160	20				
ST LOGU 03 012 KYCR	✓	✓	22	3	25	180	20				
ST LOGU 03 013 KYCR	✓	✓	25	4	50	160	25				
ST LOGU 03 014 KYCR	✓	✓	25	4	50	180	25				
ST LOGU 03 015 KYCR	✓	✓	26	4	30	180	25				
ST LOGU 03 016 KYCR	✓	✓	26	4	30	160	25				
ST LOGU 03 017 KYCR	✓	✓	26	2	30	300	25				
ST LOGU 03 018 KYCR	✓	✓	28	5	30	160	25				
ST LOGU 03 019 KYCR	✓	✓	28	5	30	180	25				
ST LOGU 03 020 KYCR	✓	✓	32	5	60	160	32				
ST LOGU 03 021 KYCR	✓	✓	32	5	60	200	32				
ST LOGU 03 022 KYCR	✓	✓	33	5	35	160	32				
ST LOGU 03 023 KYCR	✓	✓	25	4	50	150	25				

► LPGT 0102 KYCR

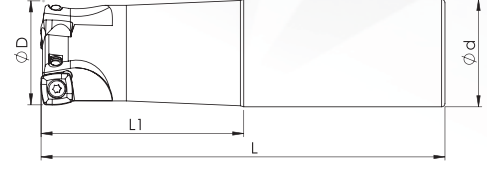


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
KYCR LPGT 010210										
ST LPGT 0102 001 KYCR	✓	✓	9	1	15	75	10	LPGT 0102	M2x5	T6
ST LPGT 0102 002 KYCR	✓	✓	10	2	20	100	10			
ST LPGT 0102 003 KYCR	✓	✓	11	2	22	120	10			
ST LPGT 0102 004 KYCR	✓	✓	12	2	20	120	11			
ST LPGT 0102 005 KYCR	✓	✓	12	3	20	120	11			
ST LPGT 0102 006 KYCR	✓	✓	12	2	25	120	12			
ST LPGT 0102 007 KYCR	✓	✓	12	3	80	150	12			
ST LPGT 0102 008 KYCR	✓	✓	14	3	40	100	14			
ST LPGT 0102 009 KYCR	✓	✓	14	3	40	160	16			
ST LPGT 0102 010 KYCR	✓	✓	16	4	30	160	16			
ST LPGT 0102 011 KYCR	✓	✓	12	2	25	100	12			
ST LPGT 0102 012 KYCR	✓	✓	12	3	25	120	12			

ŞAFTLI TARAMALAR - HIGH FEED
END MILLS - HIGH FEED

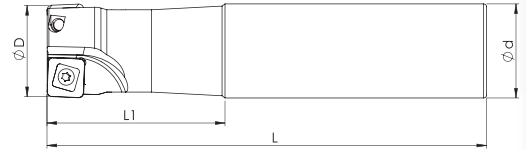


► SDKX 0904 LMN



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
LMN SDKX 0904		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST SDKX 09 001 LMN	✓	✓	25	2	60	120	25		SDKX 0904	M3,5x10	T15
ST SDKX 09 002 LMN	✓	✓	25	2	60	200	25				
ST SDKX 09 003 LMN	✓	✓	32	3	60	120	32				
ST SDKX 09 004 LMN	✓	✓	32	3	60	150	32				
ST SDKX 09 005 LMN	✓	✓	32	3	60	200	32				

► SOMT 12T3 MTSBHS



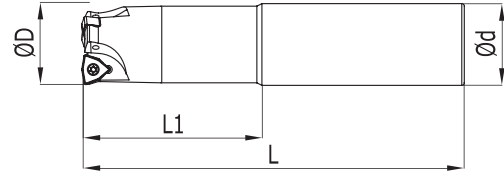
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
MTSBHS SOMT 12T308		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST SOMT 12 001 MTSBHS	✓	✓	32	2	60	150	32		SOMT 12T3	M5x9	T20
ST SOMT 12 002 MTSBHS	✓	✓	40	3	45	150	32				



SAPPHIRE
CUTTING TOOLS

ŞAFTLI TARAMALAR - HIGH FEED
END MILLS - HIGH FEED

► WNMX 09T3 KRLY



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KRLY WNMX 09T316		Inter Coolant	D	Z	L1	L	d				
ST WNMX 09 003 KRLY	✓	✓	25	2	70	150	25				
ST WNMX 09 004 KRLY	✓	✓	32	3	70	150	32				
								WNMX 09T3	M3X8	T10	

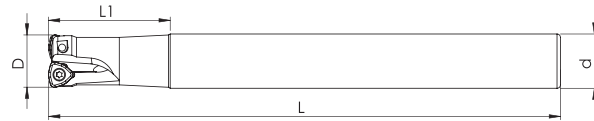


Uç
Insert

Vida
Screw

Anahtar
Torx Key

► WNMX 0603 KRLY



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KRLY WNMX 060312		Inter Coolant	D	Z	L1	L	d				
ST WNMX 06 001 KRLY	✓	✓	16	2	70	150	16				
ST WNMX 06 002 KRLY	✓	✓	20	3	70	150	20				
								WNMX 0603	M2,5X8	T8	



Uç
Insert

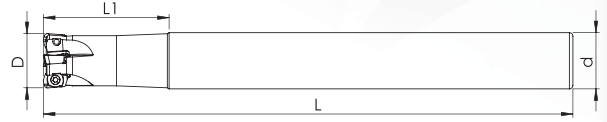
Vida
Screw

Anahtar
Torx Key

ŞAFTLI TARAMLAR - HIGH FEED
END MILLS - HIGH FEED

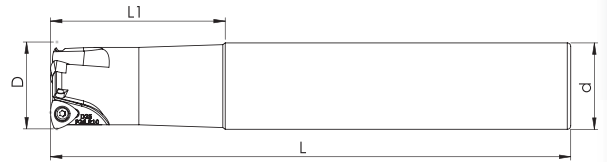


► LPMW 0402 KRLY



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KRLY LPMW 040210		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST LPMW 04 001 KRLY	✓	✗	10	2	35	120	10	LPMW 0402	M1,8	T6	
ST LPMW 04 002 KRLY	✗	✗	12	3	35	120	12				
ST LPMW 04 003 KRLY	✗	✗	16	4	35	150	16				

► P26335 R10/R14 WLTR



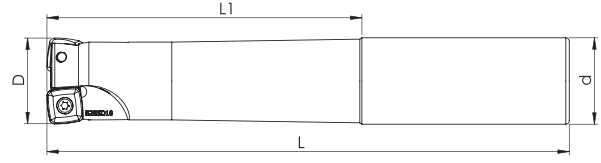
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WLTR P26335 -R10-R14		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST P2633 R 10 001 WLTR	✓	✓	21	2	26	120	20	P26335 R10	M2,5X8	T8	
ST P2633 R 10 002 WLTR	✓	✓	25	3	50	150	25				
ST P2633 R 10 003 WLTR	✓	✓	26	3	30	200	25				
ST P2633 R 10 004 WLTR	✓	✓	32	4	60	150	32	P26335 R14	M4X10	T15	
ST P2633 R 14 001 WLTR	✓	✓	32	3	60	150	32				



SAPPHIRE
CUTTING TOOLS

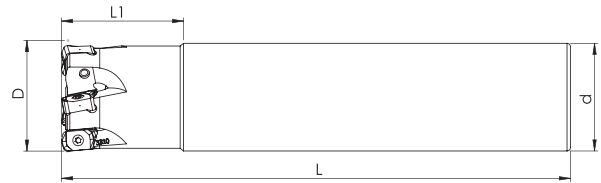
ŞAFTLI TARAMALAR - HIGH FEED
END MILLS - HIGH FEED

► SDMT 1004 BHLR



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
BHLR SDMT 1004		Inter Cooland	D	Z	L1	L	d				
ST SDMT 10 001 BHLR	✓	✓	17	1	30	150	16	SDMT 1004	M3X8	T10	
ST SDMT 10 002 BHLR	✓	✓	25	2	90	150	25				
ST SDMT 10 003 BHLR	✓	✓	32	3	90	150	32				

► BNGX 10T3 PRMT

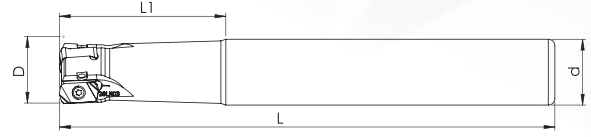


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
PRMT BNGX 10T3		Inter Cooland	D	Z	L1	L	d				
ST BNGX 10 001 PRMT	✓	✓	17	2	35	150	16	BNGX 10T3	M2,5X8	T8	
ST BNGX 10 002 PRMT	✓	✓	21	3	35	150	20				
ST BNGX 10 003 PRMT	✓	✓	26	4	35	150	25				
ST BNGX 10 004 PRMT	✓	✓	26	4	35	200	25				
ST BNGX 10 005 PRMT	✓	✓	33	5	35	150	32				
ST BNGX 10 006 PRMT	✓	✓	33	5	35	200	32				

ŞAFTLI TARAMALAR - HIGH FEED
END MILLS - HIGH FEED

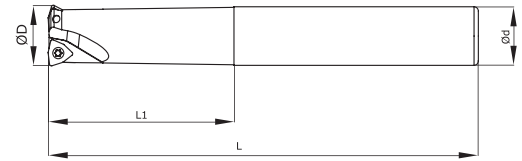


► LNMU 0303 TNGLY



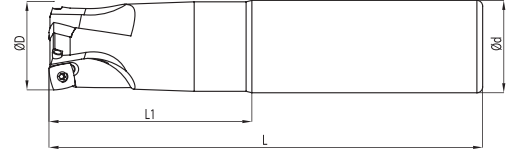
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
TNGLY LNMU 0303		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST LNMU 03 001 TNGLY	✓	✓	16	2	40	160	16		LNMU 0303	M2,5X8	T8
ST LNMU 03 002 TNGLY	✓	✓	18	2	35	150	16				
ST LNMU 03 003 TNGLY	✓	✓	20	3	60	160	20				
ST LNMU 03 004 TNGLY	✓	✓	21	3	35	160	20				
ST LNMU 03 005 TNGLY	✓	✓	22	3	35	150	20				
ST LNMU 03 006 TNGLY	✓	✓	25	4	50	160	25				
ST LNMU 03 007 TNGLY	✓	✓	32	4	60	160	32				

► WDKT 08 ISO



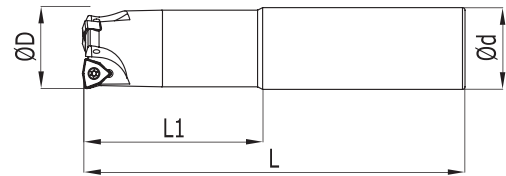
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ISO WDKT 08		Inter Cooland	D	Z	L1	L	d		Uç Insert	Vida Screw	Anahtar Torx Key
ST WDKT 08 001 ISO	✓	X	20	2	70	150	20		WDKT 08..	M3X8	T10
ST WDKT 08 002 ISO	✓	X	25	2	70	150	25				
ST WDKT 08 003 ISO	✓	X	30	2	70	150	32				
ST WDKT 08 004 ISO	✓	X	32	3	70	150	32				

► ZDCW 09T3 PRMT



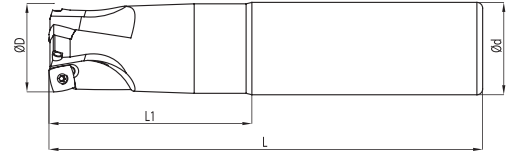
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Coolant	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
PRMT ZDCW 09T3										
ST ZDCW 09 001 PRMT	✓	✓	20	2	60	150	20	ZDCW 09T3	M3X8	T15
ST ZDCW 09 002 PRMT	✓	✓	25	2	70	150	25			
ST ZDCW 09 003 PRMT	✓	✓	32	3	70	150	32			

► WOEJ 0804 WDA



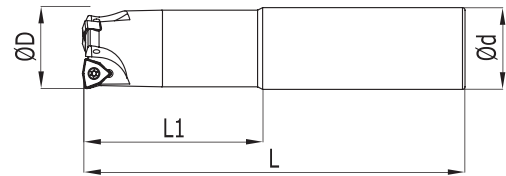
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Coolant	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
WDA WOEJ 0804										
ST WOEJ 08 001 WDA	X	✓	25	2	60	150	25	WOEJ 0804	M3X8	T10
ST WOEJ 08 002 WDA	X	✓	25	2	80	200	25			
ST WOEJ 08 003 WDA	X	✓	32	3	60	150	32			
ST WOEJ 08 004 WDA	X	✓	32	3	80	200	32			

► ZDCW 09T3 PRMT



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Coolant	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
PRMT ZDCW 09T3										
ST ZDCW 09 001 PRMT	✓	✓	20	2	60	150	20	ZDCW 09T3	M3X8	T15
ST ZDCW 09 002 PRMT	✓	✓	25	2	70	150	25			
ST ZDCW 09 003 PRMT	✓	✓	32	3	70	150	32			

► WOEJ 0804 WDA



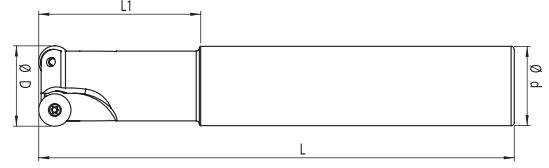
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Coolant	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
WDA WOEJ 0804										
ST WOEJ 08 001 WDA	X	✓	25	2	60	150	25	WOEJ 0804	M3X8	T10
ST WOEJ 08 002 WDA	X	✓	25	2	80	200	25			
ST WOEJ 08 003 WDA	X	✓	32	3	60	150	32			
ST WOEJ 08 004 WDA	X	✓	32	3	80	200	32			



SAPPHIRE
CUTTING TOOLS

ŞAFTLI TARAMALAR - HIGH FEED
END MILLS - HIGH FEED

► RD.. 05/07/08/10/12 ISO

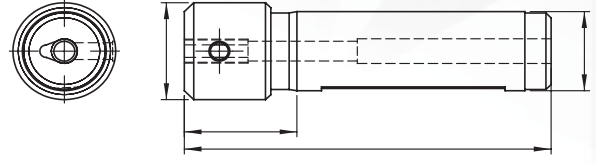


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ISO		Inter Cooland	D	Z	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key	
ST RD..05 001 ISO	✓	✗	10	2	40	100	10	RD..0501	M2X5	T6	
ST RD..05 002 ISO	✓	✗	10	2	40	100	12				
ST RD..05 003 ISO	✓	✗	12	2	40	100	12				
ST RD..07 004 ISO	✓	✓	12	2	20	100	12	RD..07T1			
ST RD..07 005 ISO	✓	✓	12	2	80	140	16				
ST RD..07 006 ISO	✓	✓	15	2	60	110	16	RD..0702	M2,5X6	T8	
ST RD..08 007 ISO	✓	✗	16	2	40	120	16	RD..0803	M3X6	T10	
ST RD..08 008 ISO	✓	✗	16	2	40	150	16				
ST RD..10 012 ISO	✓	✗	20	2	40	120	20	RD..1003			
ST RD..10 013 ISO	✓	✓	20	2	50	150	20				
ST RD..10 014 ISO	✓	✗	20	2	50	200	20				
ST RD..10 015 ISO	✓	✗	25	2	50	150	25				
ST RD..10 016 ISO	✓	✗	25	2	60	200	25				
ST RD..10 017 ISO	✓	✗	32	3	60	150	32				
ST RD..10 018 ISO	✓	✗	32	2	100	250	32				
ST RD..10 019 ISO	✓	✗	32	3	100	250	32				
ST RD..10 020 ISO	✓	✗	40	4	55	150	32				
ST RD..10 021 ISO	✓	✗	40	2	55	250	32				
ST RD..10 022 ISO	✓	✗	40	4	55	250	32				
ST RD..10 023 ISO	✓	✗	20	2	50	150	20				
ST RD..10 024 ISO	✓	✗	25	2	50	150	25				
ST RD..10 025 ISO	✓	✗	25	2	70	200	25				
ST RD..10 027 ISO	✓	✗	32	3	70	150	32				
ST RD..10 028 ISO	✓	✗	32	2	100	250	32				
ST RD..10 029 ISO	✓	✗	40	4	55	150	32				
ST RD..10 030 ISO	✓	✗	40	2	55	250	32				
ST RD..10 031 ISO	✓	✗	40	4	55	250	32				
ST RD..12 032 ISO	✓	✗	25	2	50	150	25	RD..1204			
ST RD..12 033 ISO	✓	✗	32	3	30	150	25				
ST RD..12 034 ISO	✓	✗	32	3	60	150	32				
ST RD..10 035 ISO	✓	✗	40	4	55	150	25	RD..1003			
ST RD..10 036 ISO	✓	✗	40	4	55	150	32				

ŞAFTLI TARAMALAR - HIGH FEED END MILLS - HIGH FEED

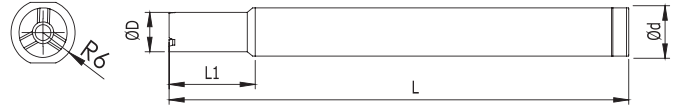


► B.ST



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
HRN B.ST		Inter Cooland	D	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
A05.0016.07.B.ST HRN	✓	✓	20	20	70	16	A05.0016.07.B.ST		
A08.0020.09.B.ST HRN	✓	✓	25	20	70	20	A08.0020.09.B.ST	M4X8	T15
A09.0025.07.B.ST HRN	✓	✓	30	20	90	25	A09.0025.07.B.ST		

► HD 12



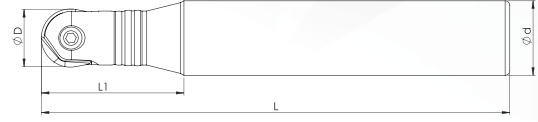
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ISO		Inter Cooland	D	L1	L	d	Uç Insert	Vida Screw	Anahtar Torx Key
HD 12 06 R 001 HRN	✓	✓	6	18	100	12	HD-1206 R	M3x10	T10
HD 12 07 R 002 HRN	✓	✓	7	18	100	12	HD-1207 R		
HD 12 08 R 003 HRN	✓	✓	8	18	100	12	HD-1208 R	M3,5x11	T15
HD 12 09 R 004 HRN	✓	✓	9	18	100	12	HD-1209 R		
HD 12 11 R 005 HRN	✓	✓	11	18	100	12	HD-1211 R	M4,5x12	T20



HIGH FEED FINISH TAKIMLARI HIGH FEED FINISH TOOLS



► KÜRE KFB KLP 10/12/16/20/25

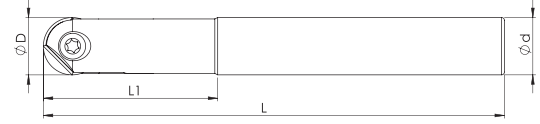


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KLP KÜRE KFB 10/12/16/20/25		Inter Cooland	D	d	L1	L	Uç Insert	Vida Screw	Anahtar Torx Key
ST KFB 001 LKP	✓	X	10	12	45	130	KFB 100	M4X9 D10	T15
ST KFB 002 KLP	✓	X	12	16	45	130	KFB 120	M5X10 D12	
ST KFB 003 KLP	✓	X	16	20	45	130	KFB 160	M5X12 D16	
ST KFB 004 KLP	✓	X	20	25	60	150	KFB 200	M5X16 D20	
ST KFB 005 KLP	✓	X	25	32	60	200	KFB 250	M6X22 D25	
ST KFB 006 KLP	✓	X	25	32	60	250	KFB 250	M6X22 D25	

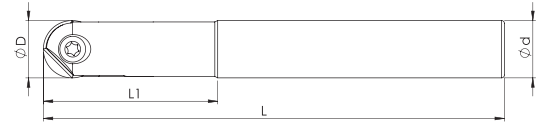
► KÜRE 08/10/12/16/20/25/30/32 WLTR



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
WLTR P3201		Inter Cooland	D	d	L1	L	Uç Insert	Vida Screw	Anahtar Torx Key
ST BBMR P3208 001 WLTR	✓	X	8	10	25	110	P3208-D08	M3x0.35x7	T08
ST BBMR P3210 002 WLTR	✓	X	10	12	30	130	P3210-D10	M4x0.5x9	T15
ST BBMR P3212 003 WLTR	✓	X	12	12	32	130	P3212-D12	M5x0.5x10	
ST BBMR P3216 004 WLTR	✓	X	16	16	36	140	P3216-D16	M5x0.5x12	
ST BBMR P3220 005 WLTR	✓	X	20	20	45	160	P3220-D20	M5x0.5x17	
ST BBMR P3225 006 WLTR	✓	X	25	25	45	160	P3225-D25	M6x0.75x20	
ST BBMR P3230 007 WLTR	✓	X	30	32	60	175	P3230-D30	M8x1x23	
ST BBMR P3232 008 WLTR	✓	X	32	32	60	175	P3232-D32	M8x1x25	

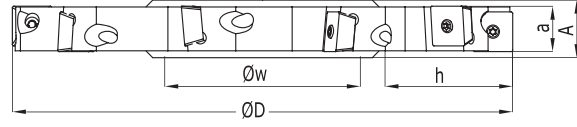

SAPPHIRE
CUTTING TOOLS
HIGH FEED FINISH TAKIMLARI
HIGH FEED FINISH TOOLS
► ROHX 12/16/20 ZCC


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock							
ZCC ROHX 12/16/20		D	d	L1	L	Uç Insert	Vida Screw	Anahtar Torx Key
ST ROHX 12 001 ZCC	✓	12	16	45	130	R0HX 1203	M4X0,5X9	T15
ST ROHX 16 002 ZCC	✓	16	16	45	160	R0HX 1604	M5X0,5X10	T20
ST ROHX 16 003 ZCC	✓	16	16	60	200			
ST ROHX 16 004 ZCC	✓	16	16	60	250			
ST ROHX 20 005 ZCC	✓	20	20	45	160	R0HX 2005	M5X0,5X13	
ST ROHX 20 006 ZCC	✓	20	20	60	200			
ST ROHX 20 007 ZCC	✓	20	20	60	250			
ST ROHX 20 008 ZCC	✓	20	25	60	240			

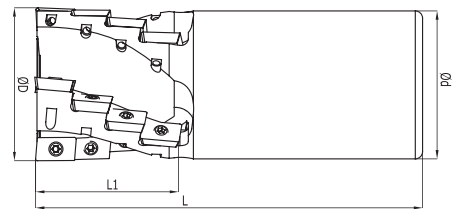
► ZOHX 12/16/20/25/32 ZCC


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock							
ZCC ZOHX 12/16/20/25/32		D	d	L1	L	Uç Insert	Vida Screw	Anahtar Torx Key
ST ZOHX 12 001 ZCC	✓	12	16	45	150	Z0HX 1203	M5X10 D12	T20
ST ZOHX 16 002 ZCC	✓	16	16	60	180	Z0HX 1604	M5X12 D16	
ST ZOHX 20 003 ZCC	✓	20	20	60	200	Z0HX 2005	M5X16 D20	
ST ZOHX 25 004 ZCC	✓	25	25	60	250	Z0HX 2506	M6X22 D25	
ST ZOHX 32 005 ZCC	✓	32	32	60	250	Z0HX 3207	M8X25 D30	



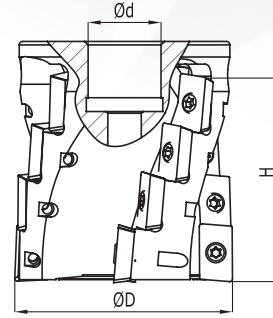

► CCMT 06/09/12 ISO


Kesici Uç Uyumluluğu Insert Suitability		Stok Stock										
ISO CCMT 06/09/12		Inter Coolant	D	a	A	Z	h	w	Uç Insert	Vida Screw	Anahtar Torx Key	
DKF 001 ISO	✓	×	80	8	12	10	16	27	CC... 0602..	M2.5X6	T08	
DKF 002 ISO	✓	×	100	8	12	12	24	32				
DKF 003 ISO	✓	×	125	8	12	14	34	40				
DKF 004 ISO	✓	×	160	8	12	16	50	40				
DKF 005 ISO	✓	×	80	10	14	10	16	27				
DKF 006 ISO	✓	×	100	10	14	12	24	32				
DKF 007 ISO	✓	×	125	10	14	14	34	40	CC...09T3..	M3.5X9	T15	
DKF 008 ISO	✓	×	160	10	14	16	50	40				
DKF 009 ISO	✓	×	80	12	16	8	16	27				
DKF 010 ISO	✓	×	100	12	16	10	24	32				
DKF 011 ISO	✓	×	125	12	16	12	34	40				
DKF 012 ISO	✓	×	160	12	16	14	50	40				
DKF 013 ISO	✓	×	80	14	18	8	16	27	CC...1204..	M5X10	T20	
DKF 014 ISO	✓	×	100	14	18	10	24	32				
DKF 015 ISO	✓	×	125	14	18	12	34	40				
DKF 016 ISO	✓	×	160	14	18	14	50	40				
DKF 017 ISO	✓	×	80	16	20	8	16	27				
DKF 018 ISO	✓	×	100	16	20	8	24	32				
DKF 019 ISO	✓	×	125	16	20	10	34	40				
DKF 020 ISO	✓	×	160	16	20	12	50	40				

► S-SİSTEM HELİSEL FREZELER - S-SYSTEM HELIX END MILLS


										
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
ISO APKT 1003		Inter Coolant	D	Z	L	L1	d	Uç Insert	Vida Screw	Anahtar Torx Key
S HF AP.. 10 001 ISO	✓	×	20	6	110	27	20	AP.. 1003	M2,5X7	T08
S HF AP.. 10 002 ISO	✓	×	25	8	120	36	25			
S HF AP.. 10 003 ISO	✓	×	32	15	120	45	32			
S HF AP.. 10 004 ISO	✓	×	40	18	130	54	32			

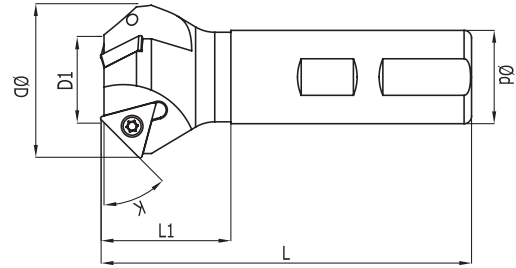
► AP.. 1604 ISO HELİSEL FREZE



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Coolant	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
ISO AP.. 1604									
TK HF AP.. 16 001 ISO	✓	X	50	12	42	22	AP..1604..	M3.5X8	T15
TK HF AP.. 16 002 ISO	✓	X	63	16	56	22			
TK HF AP.. 16 003 ISO	✓	X	80	25	70	27			

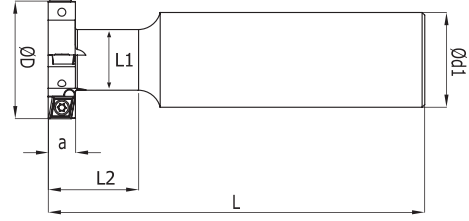


► TCMT 11/16 ISO HAVŞA MATKABI

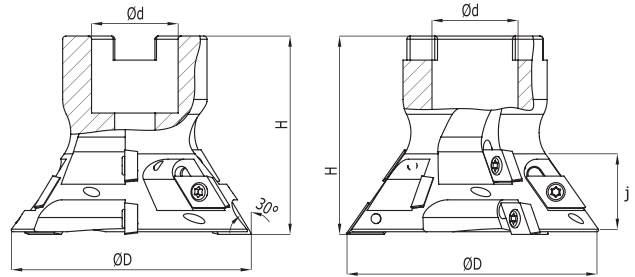
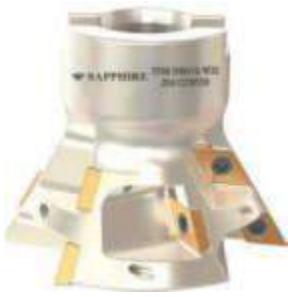


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	K	D	D1	d	L	L1	Uç Insert	Vida Screw	Anahtar Torx Key
ISO TCMT 11/16										
HM 001 ISO	✓	45°	15	4	16	L100	35	TC..11	M2,5X7	T8
HM 002 ISO	✓	45°	25	14	25	L100	35			
HM 003 ISO	✓	45°	30	16	12	L100	35			
HM 004 ISO	✓	45°	35	21	12	L100	35	TC..16	M3,5X8	T15
HM 005 ISO	✓	45°	23	5	16	L100	35			
HM 006 ISO	✓	45°	31	10	16	L100	35			
HM 007 ISO	✓	45°	35	14	20	L100	35	TC..22	M5X12	T20
HM 008 ISO	✓	45°	70	25	25	L100	35			
HM 009 ISO	✓	45°	43	22	25	L100	35			
HM 010 ISO	✓	45°	50	30	25	L100	35	TC..16	M3,5X8	T15
HM 011 ISO	✓	45°	64	35	32	L100	35			
HM 012 ISO	✓	60°	20	6	16	L100	35			
HM 013 ISO	✓	60°	35	20	16	L100	35	TC..16	M3,5X8	T15
HM 014 ISO	✓	60°	40	24	25	L100	35			



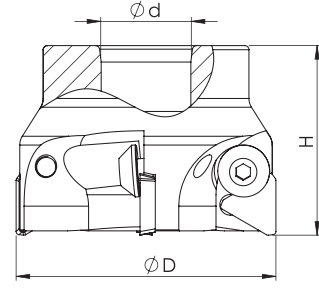

► CCMT 06/09 ISO


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
ISO CCMT 06/09		D	Z	a	L	L1	L2	d1	Uç Insert	Vida Screw	Anahtar Torx Key	
TF 001 ISO	✓	17	2	8	85	8	20	16	CC..0602	M2,5x7	T08	
TF 002 ISO	✓	20	2	9	85	10	20	16				
TF 003 ISO	✓	21	2	9	85	10	20	16				
TF 004 ISO	✓	24	2	10	100	12	25	20				
TF 005 ISO	✓	25	2	11	100	12	25	25				
TF 006 ISO	✓	25	4	12	100	12	25	25				
TF 007 ISO	✓	32	4	8	100	16	25	25				
TF 008 ISO	✓	32	4	10	100	16	30	25				
TF 009 ISO	✓	63	8	8	125	31	40	32				
TF 010 ISO	✓	30	2	12	100	16	30	25	CC..09T3	M3,5x8	T15	
TF 011 ISO	✓	32	2	14	100	16	30	25				
TF 012 ISO	✓	40	4	16	120	18	30	32				
TF 013 ISO	✓	40	4	18	120	18	30	32				
TF 014 ISO	✓	32	2	12	100	16	30	25				
TF 015 ISO	✓	40	4	12	120	18	30	32				
TF 016 ISO	✓	50	4	12	120	18	30	32		M3,5x9		
TF 017 ISO	✓	50	4	16	120	18	30	32				

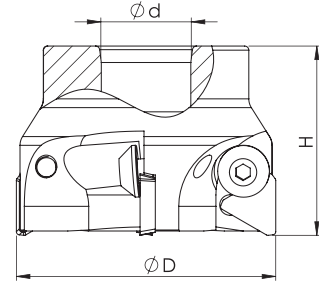
► DCMT 11 55° ISO


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ISO		Inter Coolant	D	Z	H	d	j	K	Uç Insert	Vida Screw	Anahtar Torx Key
TK KRF 55 001 ISO	✓	X	80	9	61	27	24	55°	DCMT 11T3	M3,5X11	T15
TK KRF 60 002 ISO	✓	X	80	9	61	27	26	60°			
TK KRF 60 003 ISO	✓	X	50	4	45	27	26	60°			




► 90° TPKN 16 ISO


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ISO TPKN 1603		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Allen Key
TK TPKN 16 001 ISO	✓	X	50	3	41	22	TPKN 16	M6X0,75	A4
TK TPKN 16 002 ISO	✓	X	63	4	48	22			
TK TPKN 16 003 ISO	✓	X	80	5	52	32			
TK TPKN 16 004 ISO	✓	X	100	6	52	32			

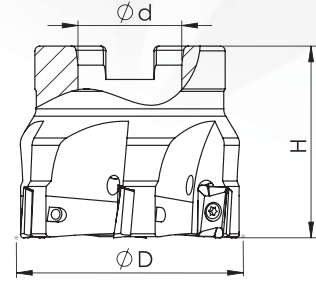
► 90° TPKN 22 ISO


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ISO TP.. 2204		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Allen Key
TK TPKN 22 001 ISO	✓	X	63	3	48	22	TPKN 22	M8X1	A5
TK TPKN 22 002 ISO	✓	X	80	4	52	27			
TK TPKN 22 003 ISO	✓	X	80	4	52	32			
TK TPKN 22 004 ISO	✓	X	100	5	52	32			
TK TPKN 22 005 ISO	✓	X	125	6	62	32			
TK TPKN 22 006 ISO	✓	X	125	6	62	40			
TK TPKN 22 007 ISO	✓	X	160	7	62	40			
TK TPKN 22 008 ISO	✓	X	200	8	62	60			
TK TPKN 22 009 ISO	✓	X	250	10	62	60			

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► 90° AP.. 1003 ISO

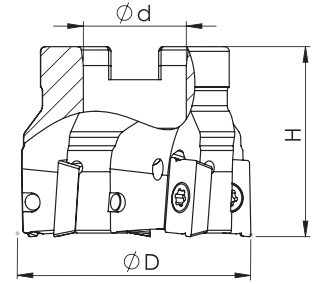


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock
ISO AP. 1003	
TK AP..10 001 ISO	✓
TK AP..10 002 ISO	✓
TK AP..10 003 ISO	✓
TK AP..10 004 ISO	✓
TK AP..10 005 ISO	✓

Inter Cooland	D	Z	H	d
✓	40	5	45	16
✓	50	6	45	22
✓	63	7	45	22
✓	80	8	52	27
✓	100	9	52	32

		
Uç Insert	Vida Screw	Anahtar Allen Key
AP..1003	M2.5X7	T08

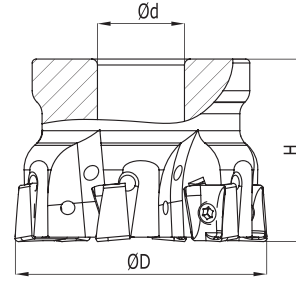
► 90° APKT 16 ISO



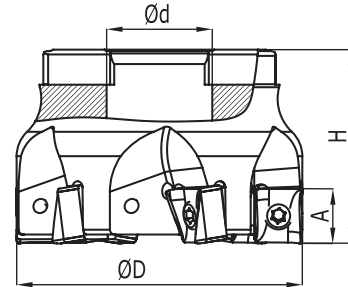
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock
ISO APKT 1604	
TK AP..16 001 ISO	✓
TK AP..16 002 ISO	✓
TK AP..16 003 ISO	✓
TK AP..16 004 ISO	✓
TK AP..16 005 ISO	✓
TK AP..16 006 ISO	✓
TK AP..16 007 ISO	✓
TK AP..16 008 ISO	✓
TK AP..16 009 ISO	✓
TK AP..16 010 ISO	✓
TK AP..16 011 ISO	✓
TK AP..16 012 ISO	✓
TK AP..16 013 ISO	✓
TK AP..16 014 ISO	✓

Inter Cooland	D	Z	H	d
✓	40	4	45	16
✓	50	4	45	22
✓	50	5	45	22
✓	63	5	45	22
✓	80	6	52	27
✓	80	6	52	32
✓	80	7	52	27
✓	100	8	52	32
✓	100	9	52	32
✓	125	8	62	40
✓	125	9	62	40
✓	160	10	62	40
✓	200	12	62	60
✓	250	14	62	60

		
Uç Insert	Vida Screw	Anahtar Torx Key
AP..1604	M3.5X11	T15

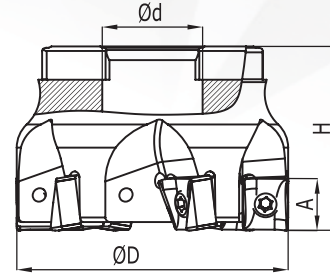

► 90° ANKX 1205 ISCR


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ISCR ANKX 1205		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK ANKX 12 001 ISCR	✓	✓	50	5	40	22	ANKX 1205..	M4X14	T15
TK ANKX 12 002 ISCR	✓	✓	63	6	45	22			
TK ANKX 12 003 ISCR	✓	✓	80	7	52	27			
TK ANKX 12 004 ISCR	✓	✓	100	8	52	32			

► 90° LNGX 1307 WLTR


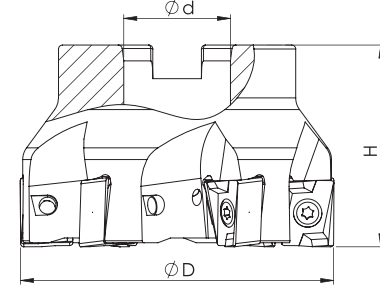
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
WLTR LNGX 1307		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK LNGX 13 001 WLTR	✓	✓	50	3	40	22	LNGX 1307..	M4X14	T15
TK LNGX 13 002 WLTR	✓	✓	63	4	45	22			
TK LNGX 13 003 WLTR	✓	✓	80	5	52	32			
TK LNGX 13 004 WLTR	✓	✓	100	8	52	32			
TK LNGX 13 005 WLTR	✓	✓	125	7	62	40			
TK LNGX 13 006 WLTR	✓	✓	160	8	62	40			
TK LNGX 13 007 WLTR	✓	✓	80	7	52	27			
TK LNGX 13 008 WLTR	✓	✓	50	4	40	22			
TK LNGX 13 009 WLTR	✓	✓	63	5	45	22			
TK LNGX 13 010 WLTR	✓	✓	125	10	62	40			

► 90° LNMX 1006/1510 KRLY

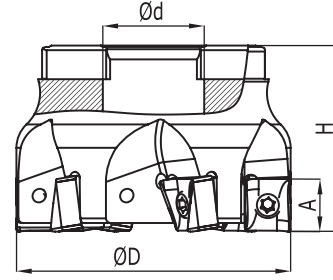
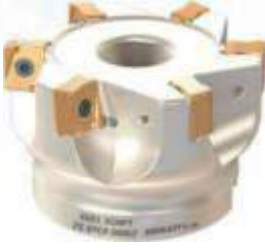


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KRLY LNMX 1006/1510		Inter Coolant	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK LNMX 10 001 KRLY	✓	✓	40	4	40	16	LNMX 1006..	M3X10	T10
TK LNMX 10 002 KRLY	✓	✓	40	5	40	16			
TK LNMX 10 003 KRLY	✓	✓	50	6	40	22			
TK LNMX 10 004 KRLY	✓	✓	50	4	40	22			
TK LNMX 15 005 KRLY	✓	✓	63	6	40	22	LNMX 1510..	M4X14	T15
TK LNMX 15 006 KRLY	✓	✓	80	7	52	27			
TK LNMX 15 007 KRLY	✓	✓	100	8	52	32			
TK LNMX 15 008 KRLY	✓	✗	125	10	62	40			
TK LNMX 15 009 KRLY	✓	✗	160	12	62	40			

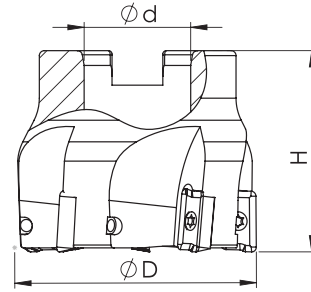
► 90° LNGU 1607 PRMT



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
PRMT LNGU 1607		Inter Coolant	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK LNGU 16 001 PRMT	✓	✓	63	4	45	22	LNGU 1607..	M5X15	T20
TK LNGU 16 002 PRMT	✓	✓	80	4	50	27			
TK LNGU 16 003 PRMT	✓	✓	100	5	50	32			
TK LNGU 16 004 PRMT	✓	✓	63	5	40	22			
TK LNGU 16 005 PRMT	✓	✓	80	6	50	27			
TK LNGU 16 006 PRMT	✓	✓	100	7	50	32			
TK LNGU 16 007 PRMT	✓	✗	125	8	62	40			
TK LNGU 16 008 PRMT	✓	✗	160	8	62	40			

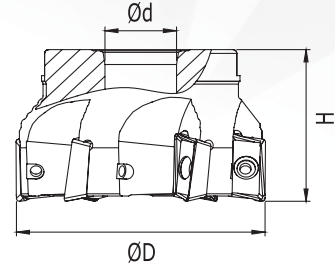

► 90° LNGX 1205 WNDRT


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d			
PRMT/VNDRT LNGX 1205							Uç Insert	Vida Screw	Anahtar Torx Key
TK LNGX 12 001 WNDRT	✓	✓	40	4	40	16	LNGX 1205..	M3,5X11	T15
TK LNGX 12 002 WNDRT	✓	✓	50	5	40	22			
TK LNGX 12 003 WNDRT	✓	✓	63	6	40	22			
TK LNGX 12 004 WNDRT	✓	✓	80	5	40	32			
TK LNGX 12 005 WNDRT	✓	✓	100	6	40	32			

► ADMT 1204 WLTR


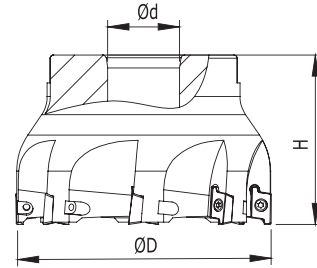
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d			
WLTR ADMT 1204							Uç Insert	Vida Screw	Anahtar Torx Key
TK ADMT 12 001 WLTR	✓	✓	40	4	40	16	ADMT 1204..	M3X9	T10
TK ADMT 12 002 WLTR	✓	✓	50	5	45	22			
TK ADMT 12 003 WLTR	✓	✓	63	6	45	22			

► 90° APKT 1204 TT

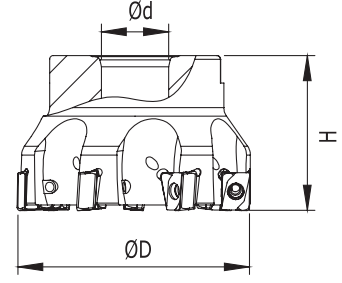


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
TT APKT 1204		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK AP..12 001 TT	✓	✓	40	5	40	16	APKT 1204	M3,5x10	T15
TK AP..12 002 TT	✓	✓	50	6	40	22			
TK AP..12 003 TT	✓	✓	63	7	40	22			
TK AP..12 004 TT	✓	✓	80	8	52	27			

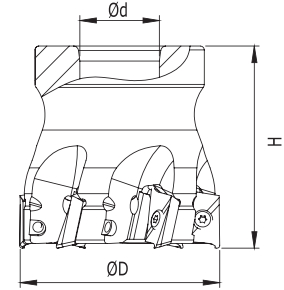
► 90° APXT 1003 KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KLP APXT 1003		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK APXT 10 001 KLP	✓	✓	40	5	40	16	APXT 1003	M2,5X7	T08
TK APXT 10 002 KLP	✓	✓	50	6	40	22			
TK APXT 10 003 KLP	✓	✓	63	7	50	22			
TK APXT 10 004 KLP	✓	✓	80	8	50	27			
TK APXT 10 005 KLP	✓	✓	80	8	50	32			

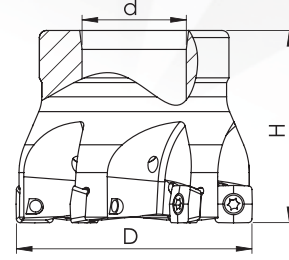

► 90° ANHG 1005 VNDRT


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
VNDRT ANHG 1005		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK ANHG 10 001 VNDRT	✓	✓	40	4	40	16	ANHG 1005	M3x10	T10
TK ANHG 10 002 VNDRT	✓	✓	50	5	40	22			
TK ANHG 10 003 VNDRT	✓	✓	63	5	40	22			
TK ANHG 10 004 VNDRT	✓	✓	63	7	40	22			
TK ANHG 10 005 VNDRT	✓	✓	80	6	40	27			
TK ANHG 10 006 VNDRT	✓	✓	100	7	40	32			
TK ANHG 10 007 VNDRT	✓	✓	100	8	40	32			

► 90° AOMT 1236 MTSBSH


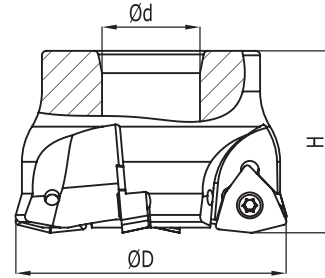
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
MTSBSH AOMT 1236		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK AOMT 12 001 MTSBSH	✓	✓	40	6	40	16	AOMT 1236	M2,5X7	T08
TK AOMT 12 002 MTSBSH	✓	✓	50	7	40	22			
TK AOMT 12 003 MTSBSH	✓	✓	63	8	40	22			
TK AOMT 12 004 MTSBSH	✓	✓	80	9	40	27			
TK AOMT 12 005 MTSBSH	✓	✓	100	11	40	32			

► 90° P2840 WLTR

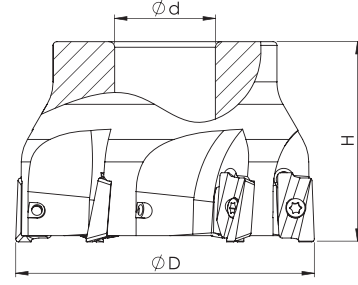


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
WLTR P2840									
TK P2840 001 WLTR	✓	✓	40	4	40	16	P-2840	M3,5x8	T15
TK P2840 002 WLTR	✓	✓	50	5	40	22			

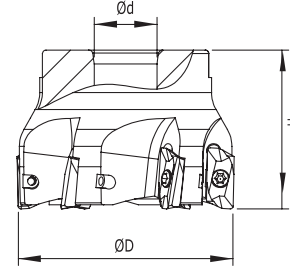
► 90° XNKT 0805 KRLY



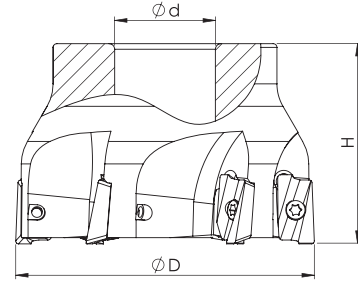
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
KRLY XNKT 0805									
TK XNKT 08 001 KRLY	✓	✓	40	4	40	16	XNKT 0805	M4x10	T15
TK XNKT 08 002 KRLY	✓	✓	50	5	45	22			
TK XNKT 08 003 KRLY	✓	✓	63	6	45	22			
TK XNKT 08 004 KRLY	✓	✓	80	7	50	27			
TK XNKT 08 005 KRLY	✓	✓	100	8	50	32			


► 90° R390 1806 SNDVK


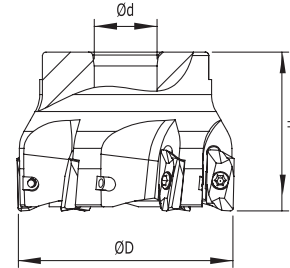
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
SNDVK R390 1806		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK R390 18 001 SNDVK	✓	✓	50	4	40	22	R390 1806	M4x12	T15	
TK R390 18 002 SNDVK	✓	✓	63	5	40	22				
TK R390 18 003 SNDVK	✓	✓	80	6	40	27				
TK R390 18 004 SNDVK	✓	✓	100	8	52	32				
TK R390 18 005 SNDVK	✓	✗	160	10	52	40				

► 90° EDPT 1404/1805 KNNMTL


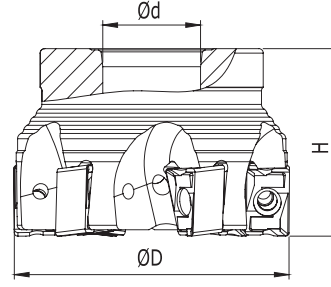
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
KNNMTL EDPT 1404/1805		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK EDPT 14 001 KNNMTL	✓	✓	40	4	40	16	EDPT 1404	M3x8	T10	
TK EDPT 14 002 KNNMTL	✓	✓	50	5	40	22				
TK EDPT 14 004 KNNMTL	✓	✓	63	6	50	22				
TK EDPT 14 005 KNNMTL	✓	✓	80	7	50	27				
TK EDPT 14 006 KNNMTL	✓	✓	100	8	50	32				
TK EDPT 18 007 KNNMTL	✓	✓	50	4	40	22	EDPT 1805	M3,5x10	T15	
TK EDPT 18 008 KNNMTL	✓	✓	63	5	50	22				
TK EDPT 18 009 KNNMTL	✓	✓	80	6	50	27				


► 90° R390 1806 SNDVK


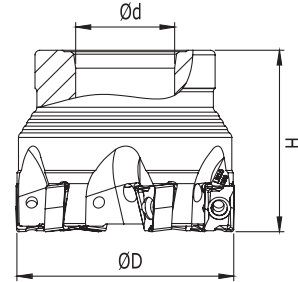
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
SNDVK R390 1806		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK R390 18 001 SNDVK	✓	✓	50	4	40	22	R390 1806	M4x12	T15	
TK R390 18 002 SNDVK	✓	✓	63	5	40	22				
TK R390 18 003 SNDVK	✓	✓	80	6	40	27				
TK R390 18 004 SNDVK	✓	✓	100	8	52	32				
TK R390 18 005 SNDVK	✓	✗	160	10	52	40				

► 90° EDPT 1404/1805 KNNMTL


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
KNNMTL EDPT 1404/1805		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK EDPT 14 001 KNNMTL	✓	✓	40	4	40	16	EDPT 1404	M3x8	T10	
TK EDPT 14 002 KNNMTL	✓	✓	50	5	40	22				
TK EDPT 14 004 KNNMTL	✓	✓	63	6	50	22				
TK EDPT 14 005 KNNMTL	✓	✓	80	7	50	27				
TK EDPT 14 006 KNNMTL	✓	✓	100	8	50	32				
TK EDPT 18 007 KNNMTL	✓	✓	50	4	40	22	EDPT 1805	M3,5x10	T15	
TK EDPT 18 008 KNNMTL	✓	✓	63	5	50	22				
TK EDPT 18 009 KNNMTL	✓	✓	80	6	50	27				


► 90° LNMX 1510 KLP


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KLP LNMX 1510		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK LNMX 15 003 KLP	✓	✓	50	5	40	22	LNMX 1510	M4X14	T15
TK LNMX 15 004 KLP	✓	✓	63	6	40	22			
TK LNMX 15 005 KLP	✓	✓	80	7	50	27			
TK LNMX 15 006 KLP	✓	✓	100	8	50	32			
TK LNMX 15 007 KLP	✓	✗	125	10	63	40			

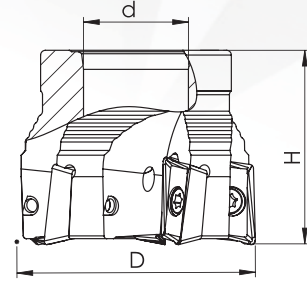
► 90° LNMX 1006 KLP


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KLP LNMX 1006		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK LNMX 10 001 KLP	✓	✓	40	5	40	16	LNMX 1006	M3X8	T10
TK LNMX 10 002 KLP	✓	✓	50	6	50	22			

TARAMA KAFALARI FACE MILLING

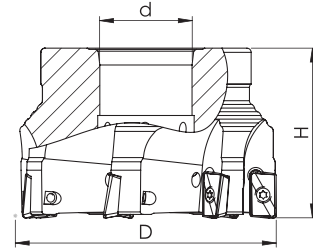


► 90° APKT 1604 KLP

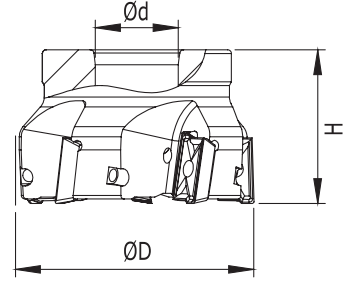


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
KLP APKT 1604									
TK APKT 16 001 KLP	✓	✓	40	4	40	16	APKT 1604	M4X10	T15
TK APKT 16 002 KLP	✓	✓	50	5	40	22			
TK APKT 16 003 KLP	✓	✓	63	6	40	22			
TK APKT 16 004 KLP	✓	✓	80	7	50	27			
TK APKT 16 005 KLP	✓	✓	100	8	50	32			

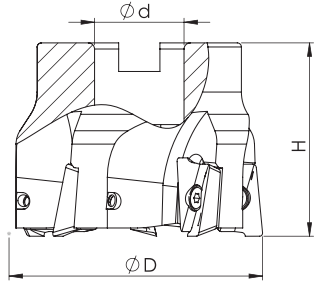
► 90° APKT 1003 KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
KLP APKT 1003									
TK APKT 10 001 KLP	✓	✓	40	5	40	16	APKT 1003	M2,5X7	T8
TK APKT 10 002 KLP	✓	✓	50	6	40	22			
TK APKT 10 003 KLP	✓	✓	63	7	40	22			


► 90° BDMT 1704 KYCR


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
KYCR BDMT 1704		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK BDMT 17 001 KYCR	✓	✓	40	4	40	16	BDMT 1704	M4X12	T15	
TK BDMT 17 002 KYCR	✓	✓	50	5	50	22				
TK BDMT 17 003 KYCR	✓	✓	63	5	50	22				
TK BDMT 17 004 KYCR	✓	✓	80	6	50	27				

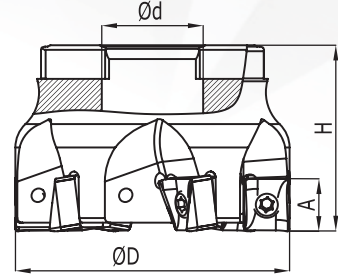
► 90° ADKT 1704 SNDVK


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
SNDVK R390 ADKT 1704		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK ADKT 17 001 SNDVK	✓	✓	40	4	40	16	ADKT 1704	M3,5X11	T15	
TK ADKT 17 002 SNDVK	✓	✓	50	4	45	22				
TK ADKT 17 003 SNDVK	✓	✓	63	5	45	22				
TK ADKT 17 004 SNDVK	✓	✓	80	6	52	27				

TARAMA KAFALARI
FACE MILLING

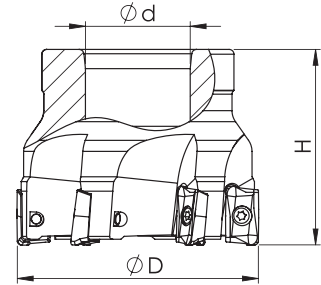


► **90° XNGU 15T6 WDA**

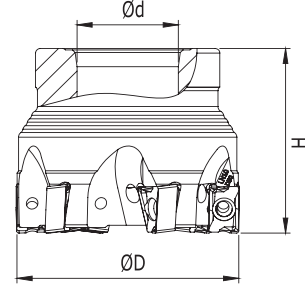


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
WDA XNGU 15T6		Inter Coolant	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK XNGU 15 001 WDA	✓	✓	40	4	40	16	XNGU 15T6	M4X14	T15
TK XNGU 15 002 WDA	✓	✓	50	5	40	22			
TK XNGU 15 003 WDA	✓	✓	63	5	40	22			
TK XNGU 15 004 WDA	✓	✓	80	6	50	27			
TK XNGU 15 005 WDA	✓	✓	50	4	40	22			

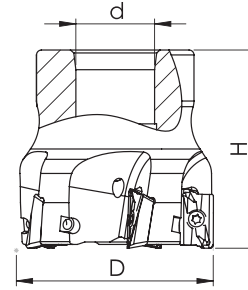
► **90° APKT 11T3 ZCC**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ZCC APKT 11T3		Inter Coolant	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK APKT 11 001 ZCC	✓	✓	40	5	45	16	APKT 11T3	M2,5X7	T8
TK APKT 11 002 ZCC	✓	✓	50	6	50	22			
TK APKT 11 003 ZCC	✓	✓	63	7	50	22			

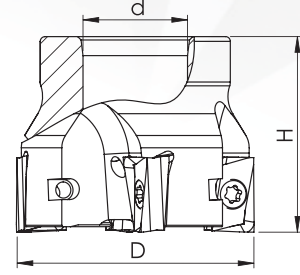

► 90° LOMU 1004 KYCR


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
KYCR LOMU 1004									
TK LOMU 10 001 KYCR	✓	✓	50	5	45	22	LOMU 1004	M3,5X8	T15
TK LOMU 10 002 KYCR	✓	✓	63	6	50	22			
TK LOMU 10 003 KYCR	✓	✓	80	8	50	27			

► 90° BDMT 11T3 KYCR


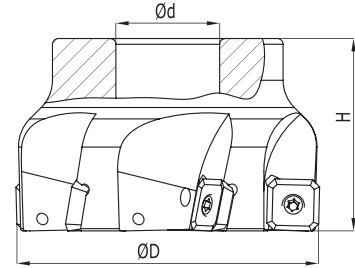
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
KYCR BDMT 11T3									
TK BDMT 11 001 KYCR	✓	✓	40	5	40	16	BDMT 11T3	M2,5X7	T8
TK BDMT 11 002 KYCR	✓	✓	50	6	40	22			

► 90° LOMU 1505 KYCR

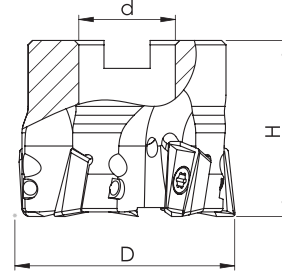


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KYCR LOMU 1505		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK LOMU 15 001 KYCR	✓	✓	50	4	40	22	LOMU 1505	M4X11	T15
TK LOMU 15 002 KYCR	✓	✓	63	5	40	22			
TK LOMU 15 003 KYCR	✓	✓	80	6	52	27			

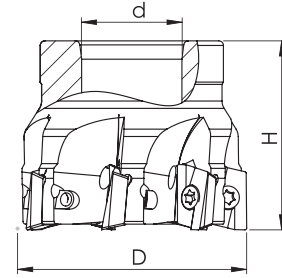
► 90° SE.. 1203 ZCC/SNDVK



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ZCC/SNDVK SEET 1203		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SEET 12 001 ZCC	✓	✓	50	4	40	22	SEET 1203	M3,5X11	T15
TK SEET 12 002 ZCC	✓	✓	63	5	40	22			
TK SEET 12 003 ZCC	✓	✓	80	6	50	27			
TK SEET 12 004 ZCC	✓	✓	100	7	50	32			
TK SEET 12 005 ZCC	✓	✓	125	8	62	40			


► 90° ADMX 1606 PRMT


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
PRMT ADMX 1606		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK ADMX 16 001 PRMT	✓	✓	50	4	40	22	ADMX 1606	M4X10	T15
TK ADMX 16 002 PRMT	✓	✓	50	5	40	22			
TK ADMX 16 003 PRMT	✓	✓	80	7	50	27			
TK ADMX 16 004 PRMT	✓	✓	100	6	52	32			

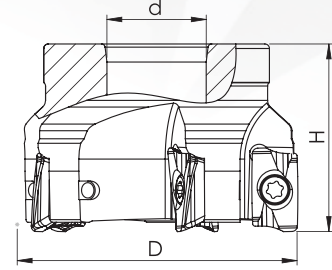
► 90° BOMT 1304 INGRSL


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
INGRSL BOMT 1304		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK BOMT 13 001 INGRSL	✓	×	50	7	40	22	BOMT 1304	M3,5X8	T15
TK BOMT 13 002 INGRSL	✓	×	63	5	40	22			
TK BOMT 13 003 INGRSL	✓	×	63	8	40	22			
TK BOMT 13 004 INGRSL	✓	×	80	10	50	27			

TARAMA KAFALARI FACE MILLING

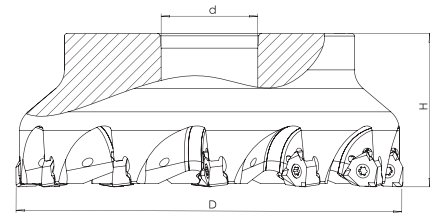


► 90° AOMT 1605 INGRSL

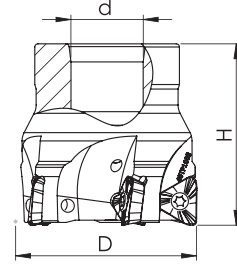


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
INGRSL AOMT 1605		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK AOMT 16 001 INGRSL	✓	X	50	4	40	22	AOMT 1605	M4X11	T15
TK AOMT 16 002 INGRSL	✓	X	63	5	40	22			
TK AOMT 16 003 INGRSL	✓	X	80	6	50	27			
TK AOMT 16 004 INGRSL	✓	X	100	8	50	32			

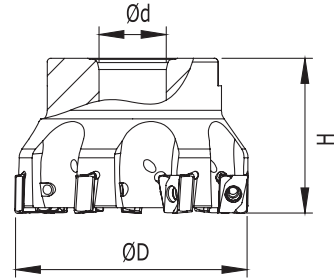
► 90° XNEX 0806 VNDRT



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
VNDRT XNEX 0806		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK XNEX 08 002 VNDRT	✓	✓	50	4	40	22	XNEX 0806	M3,5X11	T15
TK XNEX 08 003 VNDRT	✓	✓	63	5	40	22			
TK XNEX 08 004 VNDRT	✓	✓	80	7	50	27			
TK XNEX 08 005 VNDRT	✓	✓	100	8	62	32			


► 90° TPKT 1003 ISCR


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ISCR TPKT 1003		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK TPKT 10 001 ISCR	✓	✓	40	5	40	16	TPKT 1003	M3X8	T10
TK TPKT 10 002 ISCR	✓	✓	50	6	40	22			
TK TPKT 10 003 ISCR	✓	✓	63	7	40	22			

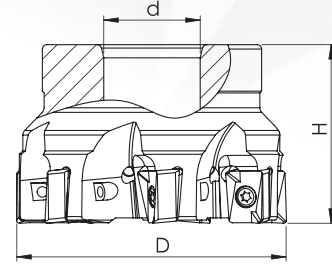
► 90° ANHG 1607 VNDRT


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
VNDRT ANHG 1607		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK ANHG 16 001 VNDRT	✓	✓	50	4	40	22	ANHG 1607	M4X14	T15
TK ANHG 16 002 VNDRT	✓	✓	63	4	40	22			
TK ANHG 16 003 VNDRT	✓	✓	63	6	40	22			
TK ANHG 16 004 VNDRT	✓	✓	80	5	50	27			
TK ANHG 16 005 VNDRT	✓	✓	80	7	50	27			
TK ANHG 16 006 VNDRT	✓	✓	100	8	50	32			

TARAMA KAFALARI
FACE MILLING

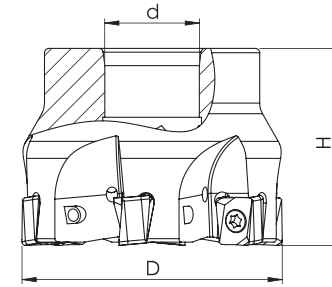


► **90° ANGX 1105 ZCC**

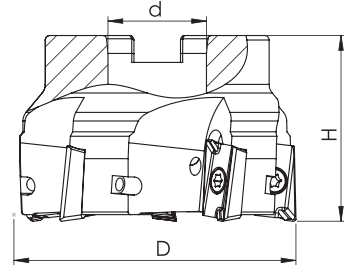


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ZCC ANGX 1105		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK ANGX 11 001 ZCC	✓	✓	50	6	40	22	ANGX 1105	M3X9	T10
TK ANGX 11 002 ZCC	✓	✓	63	7	40	22			

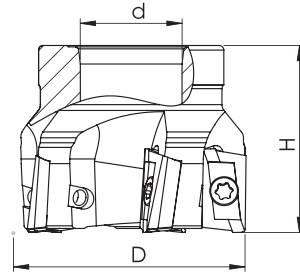
► **90° LQMU 1107 TNGLY**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
TNGLY LQMU 1107		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK LQMU 11 001 TNGLY	✓	✓	50	5	40	22	LQMU 1107	M3,5X9	T15
TK LQMU 11 002 TNGLY	✓	✓	63	6	45	22			
TK LQMU 11 003 TNGLY	✓	✓	80	8	52	27			

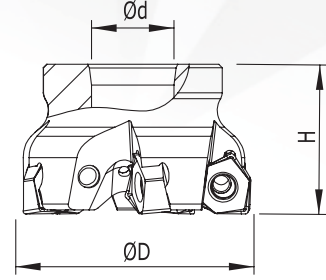

► 90° APMT 1604 MES


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
MES APMT 1604		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK APMT 16 001 MES	✓	✓	40	4	40	16	APMT 1604	M3,5X11	T15
TK APMT 16 002 MES	✓	✓	50	5	40	22			
TK APMT 16 003 MES	✓	✓	63	5	40	22			

► 90° APKT 1604 ZCC


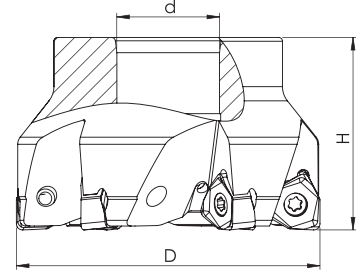
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ZCC APKT 1604		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK AP 16 001 ZCC	✓	×	40	4	40	16	APKT 1604	M4X12	T15
TK AP 16 002 ZCC	✓	×	50	5	40	22			
TK AP 16 003 ZCC	✓	×	63	5	40	22			

► 90° WNMU 0806 KYCR

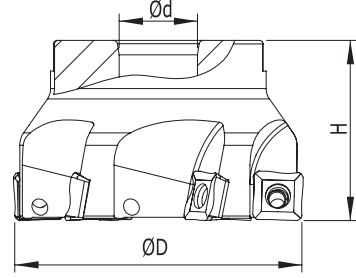


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KYCR WNMU 0806		Inter Coolant	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK WNMU 08 001 KYCR	✓	✓	50	4	40	22	WNMU 0806	M5X12	T20
TK WNMU 08 002 KYCR	✓	✓	52	4	40	22			
TK WNMU 08 003 KYCR	✓	✓	63	4	40	22			
TK WNMU 08 004 KYCR	✓	✓	63	5	40	22			
TK WNMU 08 005 KYCR	✓	✗	80	5	45	27			
TK WNMU 08 006 KYCR	✓	✗	80	6	45	27			
TK WNMU 08 007 KYCR	✓	✓	100	7	50	32			
TK WNMU 08 008 KYCR	✓	✓	125	8	50	40			
TK WNMU 08 009 KYCR	✓	✓	160	10	62	40			

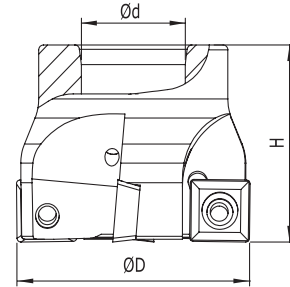
► 90° WNHU 0806 ZCC



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ZCC WNHU 0806		Inter Coolant	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK WNHU 08 001 ZCC	✓	✓	50	4	40	22	WNHU 0806	M4X12	T15
TK WNHU 08 002 ZCC	✓	✓	63	5	40	22			
TK WNHU 08 003 ZCC	✓	✓	80	6	50	27			
TK WNHU 08 007 ZCC	✗	✗	200	14	62	60			
TK WNHU 08 008 ZCC	✗	✗	250	16	62	60			


► 90° SOMT 12T3 MTSBSH


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
MTSBSH SOMT 12T3		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SOMT 12 001 MTSBSH	✓	✓	50	4	40	22	SOMT 12T3	M3,5x11	T15
TK SOMT 12 002 MTSBSH	✓	✓	63	5	45	22			
TK SOMT 12 003 MTSBSH	✓	✓	80	6	45	27			
TK SOMT 12 004 MTSBSH	✓	✓	100	7	50	32			
TK SOMT 12 005 MTSBSH	✓	✗	100	10	50	32			
TK SOMT 12 006 MTSBSH	✓	✗	125	8	50	40			
TK SOMT 12 007 MTSBSH	✓	✗	125	12	50	40			

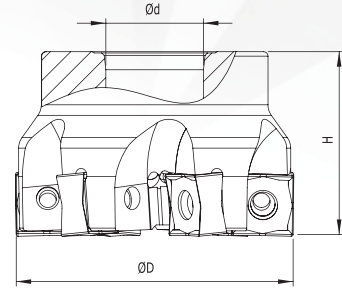
► 90° SPMT 1204 WLTR


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
WLTR SPMT 1204		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SPMT 12 002 ISO	✓	✓	50	4	45	22	SPMT 1204	M4,5X12	T20
TK SPMT 12 003 ISO	✓	✓	63	5	50	22			
TK SPMT 12 004 ISO	✓	✓	80	6	50	27			

TARAMA KAFALARI FACE MILLING

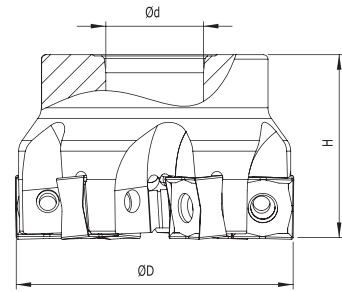


► 88° SNMX 1206 KRLY

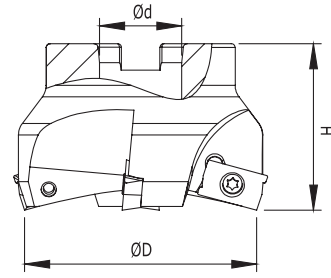


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KRLY SNMX 1206		Inter Coolant	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SNMX 12 001 KRLY	✓	✓	50	5	40	22	SNMX 1206	M4,5X11	T20
TK SNMX 12 002 KRLY	✓	✓	63	6	40	22			
TK SNMX 12 003 KRLY	✓	✓	80	8	50	27			
TK SNMX 12 004 KRLY	✓	✓	100	10	50	32			
TK SNMX 12 005 KRLY	✓	✓	125	11	62	40			
TK SNMX 12 008 KRLY	✗	✗	250	18	62	60			

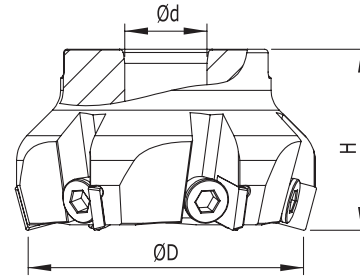
► 88° SNMX 1206 KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KLP SNMX 1206		Inter Coolant	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SNMX 12 001 KLP	✓	✓	50	5	40	22	SNMX 1206	M3,5X11	T15
TK SNMX 12 002 KLP	✓	✓	63	6	40	22			
TK SNMX 12 003 KLP	✓	✓	80	7	50	27			
TK SNMX 12 004 KLP	✓	✓	100	8	50	32			
TK SNMX 12 005 KLP	✓	✗	125	10	62	40			

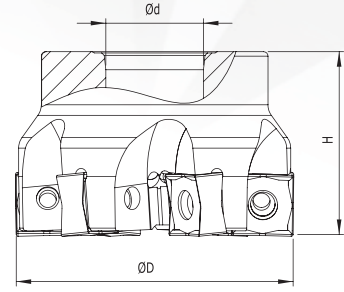

► 75° APKT 1604 ISO


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ISO APKT 1604		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK EM 75 AP 16 001 ISO	✓	✓	63	4	40	22	APKT 1604	M3,5X9	T15
TK EM 75 AP 16 002 ISO	✓	✓	80	5	40	27			
TK EM 75 AP 16 003 ISO	✓	✓	100	6	40	32			
TK EM 75 AP 16 004 ISO	✓	✗	125	7	52	40			

► 75° SPKN 1203/1504 ISO


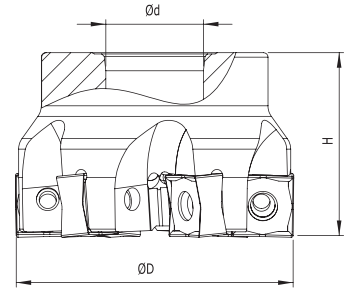
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ISO SPKN 1203		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Allen Key
TK SPKN 12 001 ISO	✓	✗	63	5	40	22	SPKN 1203	M8X1,25 (L)	A6
TK SPKN 12 002 ISO	✓	✗	80	6	50	27			
TK SPKN 12 003 ISO	✓	✗	100	8	50	32			
TK SPKN 12 004 ISO	✓	✗	125	10	62	40			
TK SPKN 12 005 ISO	✓	✗	160	12	62	40			
TK SPKN 12 006 ISO	✓	✗	200	12	62	60			
TK SPKN 15 001 ISO	✓	✗	125	10	62	40	SPKN 1504		

► 88° SNMX 1206 KRLY

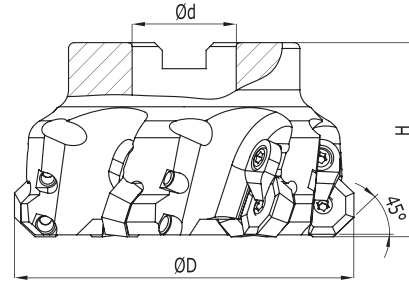


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KRLY SNMX 1206		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SNMX 12 001 KRLY	✓	✓	50	5	40	22	SNMX 1206	M4,5X11	T20
TK SNMX 12 002 KRLY	✓	✓	63	6	40	22			
TK SNMX 12 003 KRLY	✓	✓	80	8	50	27			
TK SNMX 12 004 KRLY	✓	✓	100	10	50	32			
TK SNMX 12 005 KRLY	✓	✓	125	11	62	40			
TK SNMX 12 008 KRLY	✗	✗	250	18	62	60			

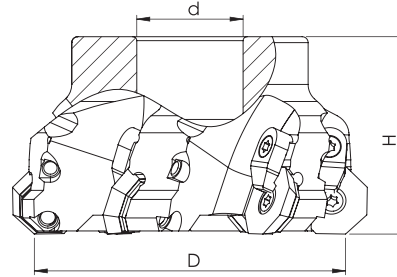
► 88° SNMX 1206 KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KLP SNMX 1206		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SNMX 12 001 KLP	✓	✓	50	5	40	22	SNMX 1206	M3,5X11	T15
TK SNMX 12 002 KLP	✓	✓	63	6	40	22			
TK SNMX 12 003 KLP	✓	✓	80	7	50	27			
TK SNMX 12 004 KLP	✓	✓	100	8	50	32			
TK SNMX 12 005 KLP	✓	✗	125	10	62	40			


► 45° OFMT 0706 ISO


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ISO OFMT 0706		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key
TK OFMT 07 001 ISO	✓	✓	63	5	43	22	OFMT 0706	M5X12	C110105	M4X12	T20
TK OFMT 07 002 ISO	✓	✓	80	6	50	27					
TK OFMT 07 003 ISO	✓	✓	100	7	50	32					
TK OFMT 07 004 ISO	✓	x	125	8	62	40					
TK OFMT 07 005 ISO	✓	x	160	12	62	40					
TK OFPT 07 001 ISO	✓	x	160	12	62	40	OFPT 0706				

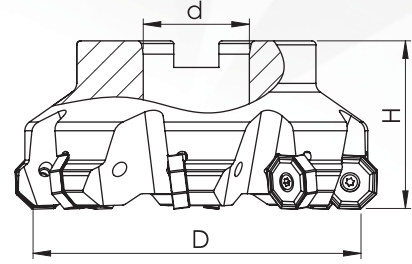
► 45° OFER 0704 LMN


											
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock						Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key
LMN OFER 0704		Inter Cooland	D	Z	H	d	OFER 0704	M5X12	C110105	M4X12	T20
TK OFER 07 001 LT	✓	✓	80	6	50	27					
TK OFER 07 002 LT	✓	✓	100	7	50	32					

TARAMA KAFALARI
FACE MILLING

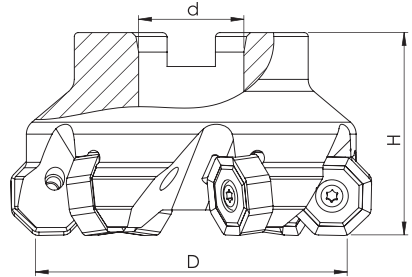


► 45° ONKX 0806 LMN

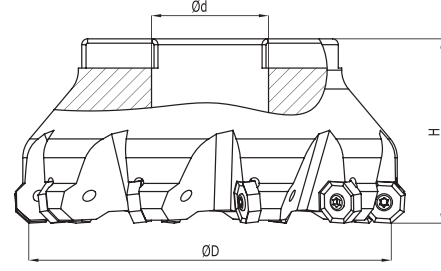


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
LMN ONKX 0806		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK ONKX 08 004 LT	✓	✓	80	6	50	27	ONKX 0806	M4,5X15	T20
TK ONKX 08 005 LT	✓	✓	125	8	62	40			

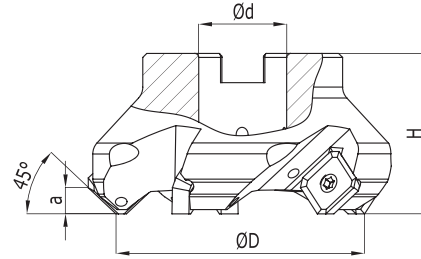
► 45° ONHU 08T6 ZCC



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ZCC ONHU 08T6		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK ONHU 08 001 ZCC	✓	✓	63	5	50	22	ONHU 08T6	M4,5X15	T20
TK ONHU 08 002 ZCC	✓	✓	80	6	50	27			
TK ONHU 08 003 ZCC	✓	✓	100	7	50	32			
TK ONHU 08 004 ZCC	✓	X	125	8	62	40			
TK ONHU 08 005 ZCC	✓	X	160	10	62	40			


► 45° ONHU 0806 ZCC


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ZCC ONHU 0806		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK ONHU 0806 001 ZCC	X	✓	63	5	40	22	ONHU 0806	M4X12	T15
TK ONHU 0806 002 ZCC	X	✓	80	6	50	27			
TK ONHU 0806 003 ZCC	X	✓	100	7	50	32			
TK ONHU 0806 004 ZCC	X	X	125	8	62	40			
TK ONHU 0806 005 ZCC	X	X	160	10	62	40			

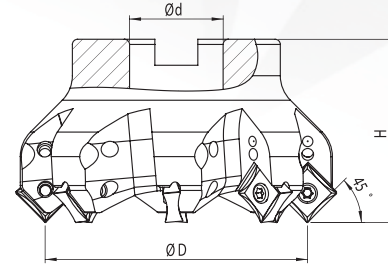
► 45° SE..12T3/SE 15.. ZCC-SNDVK


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ZCC - SNDVK SEET 12T3/SE 15..		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SE.. 12 001 ZCC	✓	✓	50	4	40	22	SE..12T3	M3,5X11	T15
TK SE.. 12 002 ZCC	✓	✓	63	5	40	22			
TK SE.. 12 003 ZCC	✓	✓	80	6	50	27			
TK SE.. 12 004 ZCC	✓	✓	100	7	50	32			
TK SE.. 12 005 ZCC	✓	X	125	8	62	40			
TK SE.. 12 006 ZCC	✓	X	125	9	62	40			
TK SE.. 12 007 ZCC	✓	X	160	10	62	40			
TK SEET 15 008 ZCC	✓	✓	100	7	50	32	SEET 15	M4,5X15	T20
TK SEET 15 009 ZCC	✓	X	125	8	62	40			
TK SEET 15 010 ZCC	✓	X	160	10	62	40			

TARAMA KAFALARI FACE MILLING

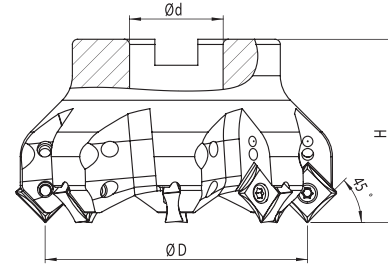


► 45° SN.. 1206 KRLY

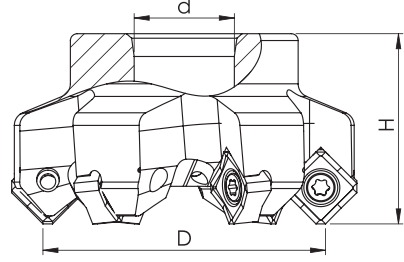


Kesici Uç Uyumluluğu Insert Suitability							Stok Stock					
KRLY SN.. 1206			Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key
TK SN.. 12 000 ISO		✓	✓	40	4	40	16	SN..1206	M4X12	CK15	M4X12	T15
TK SN.. 12 001 ISO		✓	✓	50	5	40	22					
TK SN.. 12 002 ISO		✓	✓	63	6	40	22					
TK SN.. 12 003 ISO		✓	✓	80	8	50	27					
TK SN.. 12 004 ISO		✓	✓	100	10	50	32					
TK SN.. 12 005 ISO		✓	✗	125	11	62	40					
TK SN.. 12 006 ISO		✓	✗	160	12	62	40					

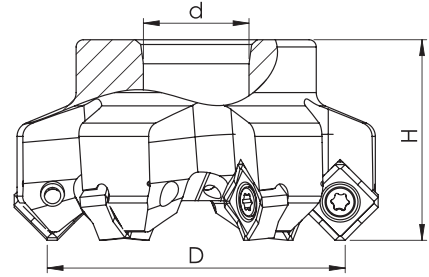
► 45° SNMX 1206 KLP



Kesici Uç Uyumluluğu Insert Suitability							Stok Stock										
KLP SNMX 1206								Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key
TK SNMX 12 001 KLP							✓	✓	50	5	40	22	SNMX 1206	M4X12	CK15	M4X12	T15
TK SNMX 12 002 KLP							✓	✓	63	6	40	22					
TK SNMX 12 003 KLP							✓	✓	80	8	50	27					
TK SNMX 12 004 KLP							✓	✓	100	10	50	32					
TK SNMX 12 005 KLP							✓	✗	125	11	62	40					

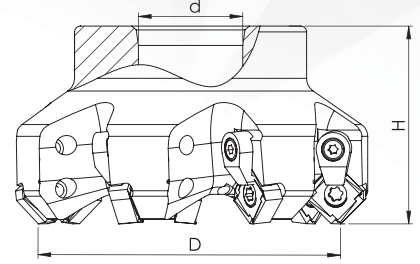

► 45° SNHG 1205 VNDRT


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
VNDRT SNHG 1205									
TK SNHG 12 001 VNDRT	✓	✓	50	6	40	22	SNHG 1205	M4X11	T15
TK SNHG 12 002 VNDRT	✓	✓	63	6	40	22			
TK SNHG 12 003 VNDRT	✓	✓	80	7	50	27			
TK SNHG 12 004 VNDRT	✓	✓	100	8	50	32			

► 45° SNKX 1205 LMN


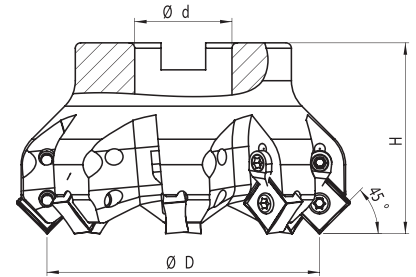
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
LMN SNKX 1205									
TK SNKX 12 001 LT	✓	✓	50	5	40	22	SNKX 1205	M4X11	T15
TK SNKX 12 002 LT	✓	✓	63	6	40	22			
TK SNKX 12 003 LT	✓	✓	80	7	50	27			
TK SNKX 12 004 LT	✓	✓	100	8	50	32			

► 45° SNEG 1205 ZCC

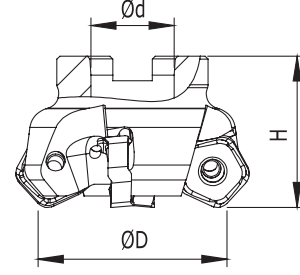


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ZCC SNEG 1205		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SNEG 12 001 ZCC	✓	✓	63	6	40	22	SNEG 1205	M4X11	T15
TK SNEG 12 002 ZCC	✓	✓	80	7	50	27			
TK SNEG 12 003 ZCC	✓	X	125	10	62	40			

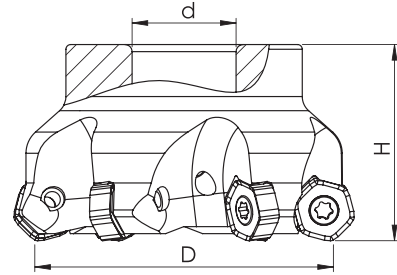
► 45° SN.. 1305 ISCR



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ISCR SN..1305		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SN..13 001 ISCR	✓	✓	50	4	40	22	SNMU 1305	M4,5X12	T20
TK SN..13 002 ISCR	✓	✓	63	6	40	22			
TK SN..13 003 ISCR	✓	✓	80	7	50	27			
TK SN..13 004 ISCR	✓	✓	100	8	50	32			
TK SN..13 005 ISCR	✓	X	125	9	62	40			


► 45° PNMU 0905/1205 KYCR


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KYCR PNMU 0905/1205		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK PNMU 09 001 KYCR	✓	✓	63	5	40	22	PNMU 0905	M4X11	T15
TK PNMU 12 002 KYCR	✓	✓	50	4	40	22	PNMU 1205	M5X12	T20
TK PNMU 12 003 KYCR	✓	✓	63	5	40	22			
TK PNMU 12 004 KYCR	✓	✓	80	5	45	27			
TK PNMU 12 005 KYCR	✓	✓	100	8	50	32			
TK PNMU 12 006 KYCR	✓	✗	125	10	50	40			
TK PNMU 12 007 KYCR	✓	✗	160	12	50	40			

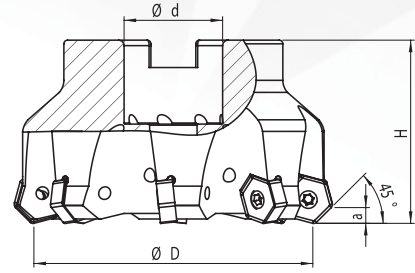
► 45° HNKX 0604 LMN


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
LMN HNKX 0604		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK HNKX 06 001 LT	✓	✓	50	5	40	22	HNKX 0604	M4X11	T15
TK HNKX 06 002 LT	✓	✓	63	6	40	22			
TK HNKX 06 003 LT	✓	✓	80	8	50	27			
TK HNKX 06 004 LT	✓	✓	100	9	50	32			
TK HNKX 06 005 LT	✓	✗	125	12	62	40			
TK HNKX 06 006 LT	✓	✗	160	12	62	40			
TK HNKX 06 007 LT	✓	✗	160	14	62	40			

TARAMA KAFALARI FACE MILLING

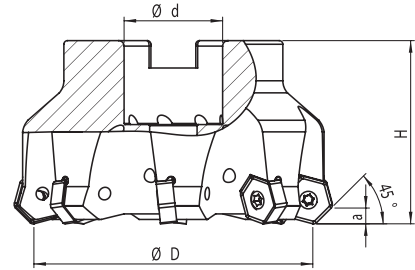


► 45° HN.. 0604 KNNMTL

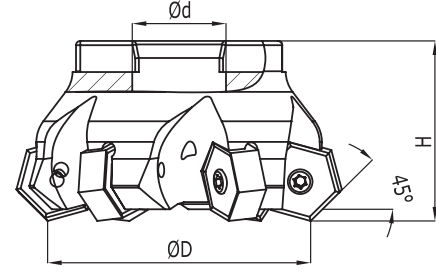


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KNMTL HN..0604		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK HN.. 06 001 KNM	✓	✓	50	4	40	22	HN.. 0604	M4X12	T15
TK HN.. 06 002 KNM	✓	✓	63	6	40	22			
TK HN.. 06 003 KNM	✓	✓	80	6	50	27			
TK HN.. 06 004 KNM	✓	✓	100	8	50	32			
TK HN.. 06 005 KNM	✓	✗	125	10	62	40			

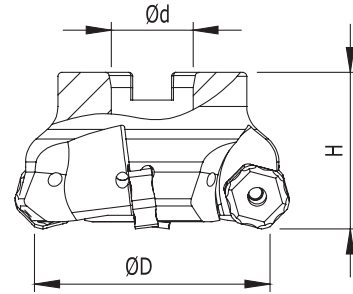
► 45° HNPJ 0704 WDA



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
WDA HNPJ 0704		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK HNPJ 07 001 WDA	✓	✓	50	4	40	22	HNPJ 0704	M4X12	T15
TK HNPJ 07 002 WDA	✓	✓	63	5	40	22			
TK HNPJ 07 003 WDA	✓	✓	63	6	40	22			
TK HNPJ 07 004 WDA	✓	✓	80	6	50	27			
TK HNPJ 07 005 WDA	✓	✗	80	8	50	27			
TK HNPJ 07 006 WDA	✓	✗	100	7	50	32			
TK HNPJ 07 007 WDA	✓	✗	125	8	63	40			
TK HNPJ 07 008 WDA	✓	✗	160	10	63	40			

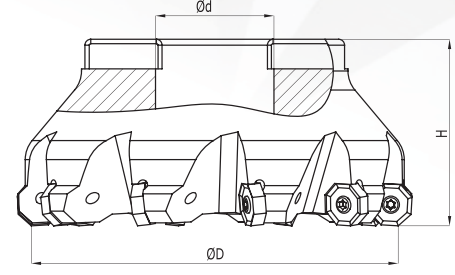

► 45° HN.. 0906 PRMT


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
PRMT HN.. 0906		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK HN.. 09 001 PRMT	✓	✓	50	4	40	22	HN..0906	M4X12	T15	
TK HN.. 09 002 PRMT	✓	✓	63	4	40	22				
TK HN.. 09 003 PRMT	✓	✓	80	6	50	27				
TK HN.. 09 004 PRMT	✓	✓	100	8	50	32				
TK HN.. 09 005 PRMT	✓	✗	125	10	62	40				
TK HN.. 09 006 PRMT	✓	✗	160	12	62	40				
TK HN.. 09 007 PRMT	✓	✗	200	10	62	60				
TK HN.. 09 008 PRMT	✓	✗	250	12	62	60				
TK HN.. 09 009 PRMT	✓	✗	300	14	62	60				

► 45° HNGJ 0905 WDA/KNMRTL


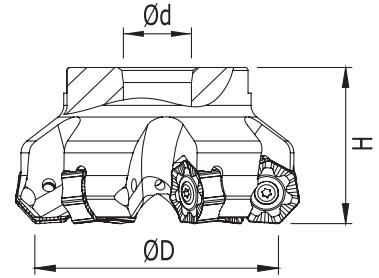
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
WDA-KNNMRTL HNGJ 0905		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK HN.. 09 001 KN WD	✓	✓	50	4	40	22	HNGJ 0905	M4X11	T15	
TK HN.. 09 002 KN WD	✓	✓	63	4	40	22				
TK HN.. 09 003 KN WD	✓	✓	63	5	40	22				
TK HN.. 09 004 KN WD	✓	✓	80	6	50	27				
TK HN.. 09 005 KN WD	✓	✓	100	8	52	32				
TK HN.. 09 006 KN WD	✓	✗	125	10	62	40				
TK HN.. 09 007 KN WD	✓	✗	160	12	62	40				

► 44° ONMU 0505 ISCR/KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ISCR/KLP ONMU 0505		Inter Coolant	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK ONMU 05 001 ISCR	✓	✓	40	3	40	16	ON..0505	M4,5X12	T20
TK ONMU 05 002 ISCR	✓	✓	50	4	40	22			
TK ONMU 05 003 ISCR	✓	✓	63	6	45	22			
TK ONMU 05 004 ISCR	✓	✓	80	7	52	27			
TK ONMU 05 005 ISCR	✓	X	100	8	52	32			
TK ONMU 05 006 ISCR	✓	X	125	9	62	40			
TK ONMU 05 007 ISCR	✓	X	160	9	62	40			

► 45° NNMU 2007 MTSBSH



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
MTSBSH NNMU 2007		Inter Coolant	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK NNMU 20 001 MTSBSH	✓	✓	63	5	45	22	NNMU 2007	M5x12	T20
TK NNMU 20 002 MTSBSH	✓	✓	80	6	45	27			
TK NNMU 20 003 MTSBSH	✓	✓	100	7	50	32			
TK NNMU 20 004 MTSBSH	✓	✓	125	8	50	40			
TK NNMU 20 005 MTSBSH	✓	X	160	10	55	40			
TK NNMU 20 006 MTSBSH	✓	X	200	12	55	60			
TK NNMU 20 007 MTSBSH	✓	X	200	12	55	60	NNMU 2006		

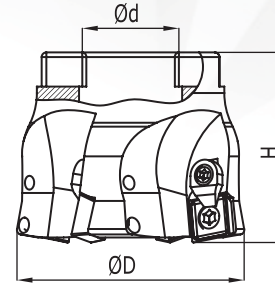


TARAMA KAFALARI - HIGH FEED
FACE MILLING - HIGH FEED



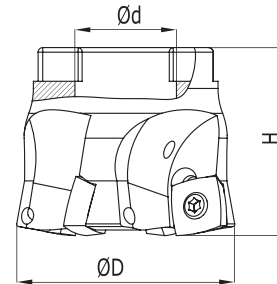
TARAMA KAFALARI - HIGH FEED / FACE MILLING - HIGH FEED

► **SDMT 09T3 ZCC**

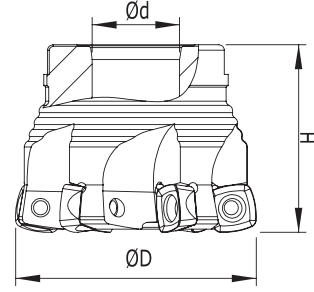


Kesici Uç Uyumluluğu Insert Suitability		Stok Stock									
ZCC SDMT 09T312		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key
TK SDMT 09 001 ZCC	✓	✓	40	4	40	16	SDMT 09T3	M3,5X11	CK14	M3,5X11	T15
TK SDMT 09 002 ZCC	✓	✓	50	4	40	22					
TK SDMT 09 003 ZCC	✓	✓	63	5	40	22					
TK SDMT 09 004 ZCC	✓	✓	50	5	40	22					
TK SDMT 09 005 ZCC	✓	✓	52	5	40	22					
TK SDMT 09 006 ZCC	✓	✓	52	6	40	22					
TK SDMT 09 007 ZCC	✓	✓	60	6	40	22					
TK SDMT 09 008 ZCC	✓	✓	63	6	40	22					

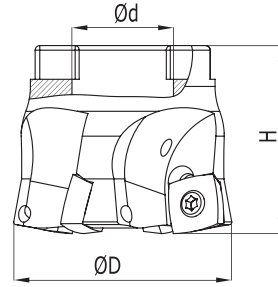
► **SDMT 1204 ISO**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
ISO SDMT 1204		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK SDMT 12 001 ISO	✓	✓	52	4	40	22	SDMT 1204	M4X11	T15	
TK SDMT 12 002 ISO	✓	✓	66	5	45	22				
TK SDMT 12 003 ISO	✓	✓	80	6	50	27				


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TARAMA KAFALARI - HIGH FEED
FACE MILLING - HIGH FEED
► SDMT 07/09/12 KLP


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
KLP SDMT 07/09/12		Inter Coolant	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK SDMT 07 014 KLP	✓	✓	40	5	40	16	SDMT 07	M3,5x10	T15	
TK SDMT 07 015 KLP	✓	✓	50	6	45	22				
TK SDMT 09 001 KLP	✓	✓	40	4	40	16				
TK SDMT 09 002 KLP	✓	✓	50	5	40	22				
TK SDMT 09 003 KLP	✓	✓	52	4	40	22				
TK SDMT 09 004 KLP	✓	✓	52	6	40	22				
TK SDMT 09 005 KLP	✓	✓	63	7	40	22				
TK SDMT 09 006 KLP	✓	✓	80	8	50	27				
TK SDMT 12 007 KLP	✓	✓	50	4	40	22		M4,5x12	T20	
TK SDMT 13 008 KLP	✓	✓	52	5	40	22				
TK SDMT 14 009 KLP	✓	✓	63	5	40	22				
TK SDMT 15 010 KLP	✓	✓	63	6	40	22				
TK SDMT 12 011 KLP	✓	✓	66	5	50	27				
TK SDMT 12 012 KLP	✓	✓	66	6	50	27				
TK SDMT 12 013 KLP	✓	✓	80	7	50	27				

► ZDCW 09T3 ZDEW 1204 PRMT


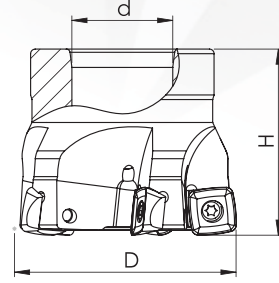
Kesici Uç Uyumluluğu Insert Suitability							    				
PRMT ZDCW 09T3- ZDEW 1204		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key
TK ZDCW 09 001 PRMT	✓	✓	40	4	40	16	ZDCW 09T304	M3X8	-	-	T10
TK ZDCW 12 002 PRMT	✓	✓	50	4	40	22	ZDEW 120408	M4X10	CK14	M4X10	T15
TK ZDCW 12 003 PRMT	✓	✓	63	5	40	22					

TARAMA KAFALARI - HIGH FEED
FACE MILLING - HIGH FEED



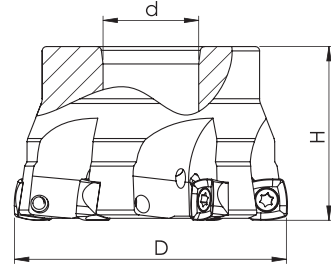
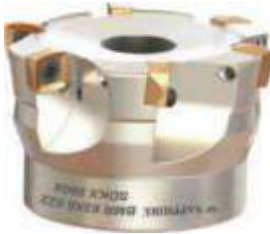
TARAMA KAFALARI - HIGH FEED / FACE MILLING - HIGH FEED

► **SDMT 1004/1204 BHLR**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
BHLR SDMT 1004/1204		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SDMT 10 002 BHLR	✓	✓	50	5	40	22	SDMT 1004	M3X10	T10
TK SDMW 14 001 BHLR	✓	✓	80	4	52	27	SDMW 14	M5X12	T20

► **SDKX 0904 LMN**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
LMN SDKX 0904		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SDKX 09 001 LMN	✓	✓	40	5	40	16	SDKX 0904	M3,5X9	T15
TK SDKX 09 002 LMN	✓	✓	42	5	40	16			
TK SDKX 09 003 LMN	✓	✓	50	6	40	22			
TK SDKX 09 004 LMN	✓	✓	63	6	40	22			

L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

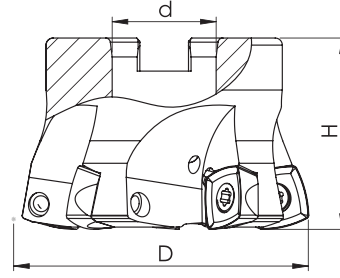
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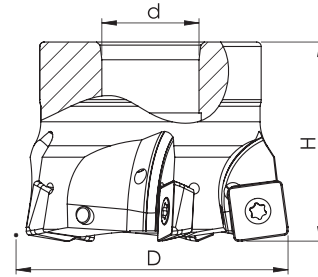
TARAMA KAFALARI - HIGH FEED
FACE MILLING - HIGH FEED

► **SDKX 1205 LMN**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
LMN SDKX 1205									
TK SDKX 12 001 LMN	✓	✓	50	5	40	22	SDKX 1205	M4X11	T15
TK SDKX 12 002 LMN	✓	✓	63	5	40	22			

► **SOEW 13M510 PLBT**



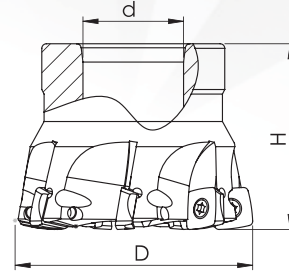
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
PLBT SOEW 13M510									
TK SOEW 13 001 PLBT	✓	✓	52	4	40	22	SOEW 13	M4X10	T15
TK SOEW 13 002 PLBT	✓	✓	63	5	40	22			

TARAMA KAFALARI - HIGH FEED
FACE MILLING - HIGH FEED



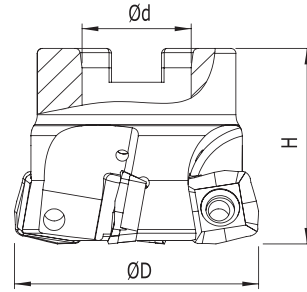
TARAMA KAFALARI - HIGH FEED / FACE MILLING - HIGH FEED

► **SDMX 09T3 PLBT**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
PLBT SDMX 09T3		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SDMX 09 001 PLBT	✓	X	42	6	40	16	SDMX 09T3	M3X8	T10
TK SDMX 09 002 PLBT	✓	X	52	7	40	22			
TK SDMX 09 003 PLBT	✓	X	80	9	50	27			

► **SOMT 1004/1404 KYCR**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KYCR SOMT 1004/1404		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK SOMT 10 001 KYCR	✓	✓	50	5	40	22	SOMT 1004	M4X10	T15
TK SOMT 10 002 KYCR	✓	✓	52	5	50	22			
TK SOMT 14 003 KYCR	✓	✓	50	4	40	22	SOMT 1404	M5X12	T20
TK SOMT 14 004 KYCR	✓	✓	52	4	50	22			
TK SOMT 14 005 KYCR	✓	✓	63	5	40	22			
TK SOMT 14 006 KYCR	✓	✓	80	6	60	27			

L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
X Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

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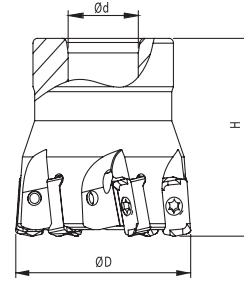


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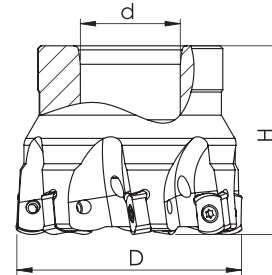
TARAMA KAFALARI - HIGH FEED
FACE MILLING - HIGH FEED

► LOGU 0303 KYCR



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
KYCR LOGU 0303		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK LOGU 03 001 KYCR	✓	✓	40	6	40	17	LOGU 0303	M3X7	T8	
TK LOGU 03 002 KYCR	✓	✓	50	7	50	22				
TK LOGU 03 003 KYCR	✓	✓	52	7	50	22				

► BLM 0603 TT



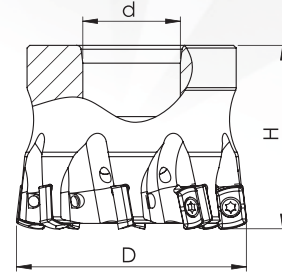
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
TT BLM 0603		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK BLM 06 001 TT	×	✓	40	6	40	16	BLM 0603	M2,5X7	T8	
TK BLM 06 002 TT	✓	✓	50	7	50	22				
TK BLM 06 003 TT	×	✓	63	8	50	22				

TARAMA KAFALARI - HIGH FEED
FACE MILLING - HIGH FEED



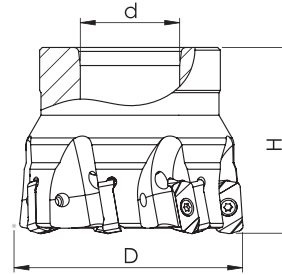
TARAMA KAFALARI - HIGH FEED / FACE MILLING - HIGH FEED

► **LNMT 0603 KRLY**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
KRLY LNMT 0603									
TK LNMT 06 000 KRLY	✓	✓	40	7	40	16	LNMT 0603	M3X8	T10
TK LNMT 06 001 KRLY	✓	✓	52	8	40	22			
TK LNMT 06 002 KRLY	✓	✓	66	9	50	27			

► **LNMU 0303 TNGLY**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TNGLY LNMU 0303									
TK LNMU 03 002 TNG	✓	✓	50	7	40	22	LNMU 0303	M2,5X8	T8
TK LNMU 03 003 TNG	✓	✓	63	8	40	22			

L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

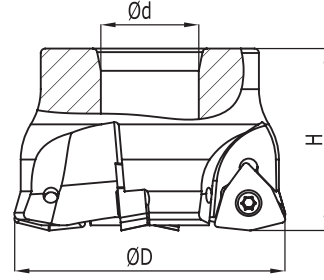
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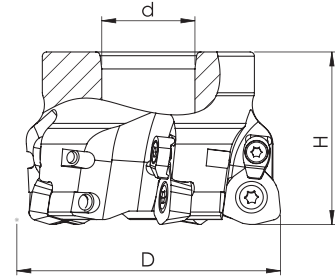
TARAMA KAFALARI - HIGH FEED
FACE MILLING - HIGH FEED

► **WNMX 09T3/1305 KRLY**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock									
KRLY WNMX 09T3 / 1305		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key	
TK WNMX 09 001 KRLY	✓	✓	40	3	40	16	WNMX 09T316	M3X10	T10	
TK WNMX 09 002 KRLY	✓	✓	40	4	40	16				
TK WNMX 09 003 KRLY	✓	✓	50	4	40	22				
TK WNMX 09 004 KRLY	✓	✓	52	4	40	22				
TK WNMX 09 005 KRLY	✓	✓	52	5	40	22				
TK WNMX 09 006 KRLY	✓	✓	52	6	40	22				
TK WNMX 09 007 KRLY	✓	✓	63	5	50	22				
TK WNMX 09 008 KRLY	✓	✓	66	6	50	22				
TK WNMX 09 009 KRLY	✓	✓	66	6	50	27				
TK WNMX 13 010 KRLY	✓	✓	50	3	40	22	WNMX 130520	M4X10	T15	
TK WNMX 13 011 KRLY	✓	✓	63	4	40	22				
TK WNMX 13 012 KRLY	✓	✓	80	5	50	27				

► **WDMT 0805 DJT**



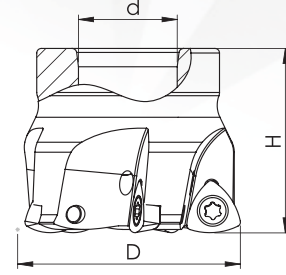
Kesici Uç Uyumluluğu Insert Suitability							    				
DJT WDMT 0805	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key
TK WDMT 08 001 DJT	✓	✓	42	3	40	16	WDMT 0805	M4,5X15	CK15	M4X12	T20
TK WDMT 08 002 DJT	✓	✓	50	4	40	22					
TK WDMT 08 003 DJT	✓	✓	63	5	40	22					

TARAMA KAFALARI - HIGH FEED
FACE MILLING - HIGH FEED



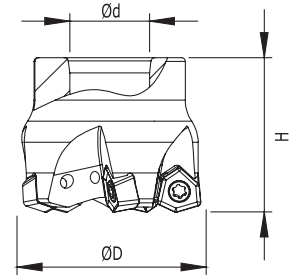
TARAMA KAFALARI - HIGH FEED / FACE MILLING - HIGH FEED

► **P26335 WLTR**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
WLTR P26335									
TK P26335 001 WLTR	✓	✓	50	5	40	22	P26335R-14	M4x10	T15
TK P26335 002 WLTR	✓	✓	52	5	55	22			
TK P26335 003 WLTR	✓	✓	63	6	55	22	P26335R-25	M4,5x15	T20
TK P26335 004 WLTR	✓	✓	52	3	40	22			

► **WXCU 0705 ISCR**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
ISCR WXCU 0705									
TK WXCU 07 001 ISCR	✓	✓	40	4	40	16	WXCU 0705	M4x10	T15
TK WXCU 07 002 ISCR	✓	✓	50	5	45	22			
TK WXCU 07 003 ISCR	✓	✓	63	6	45	22			

L: Sol/Left
R: Sağ/Right

✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

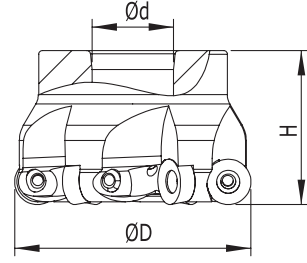
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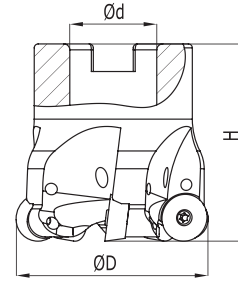
TARAMA KAFALARI - HIGH FEED
FACE MILLING - HIGH FEED

► **RCKT 1204/1606 ZCC**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
ZCC RCKT 1204/1606		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK RCKT 12 001 ZCC	✓	✓	50	5	40	22	RCKT 1204	M3,5x8	T15
TK RCKT 12 002 ZCC	✓	✓	63	6	40	22			
TK RCKT 16 003 ZCC	✓	✓	52	4	50	22	RCKT 1606	M6x15	T25
TK RCKT 16 004 ZCC	✓	✓	63	4	40	22			
TK RCKT 16 005 ZCC	✓	✓	80	5	50	27			

► **RPMT 10T3 KYCR**

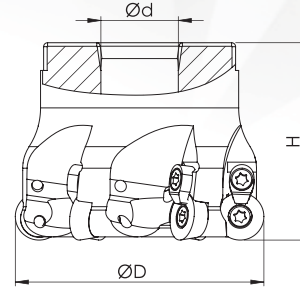


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock								
KYCR RPMT 10T3		Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
TK RPMT 10 001 KYCR	✓	✓	35	4	40	16	RPMT 10T3	M3x8	T10
TK RPMT 10 002 KYCR	✓	✓	40	5	40	22			
TK RPMT 10 003 KYCR	✓	✓	50	6	40	22			

TARAMA KAFALARI - HIGH FEED
FACE MILLING - HIGH FEED

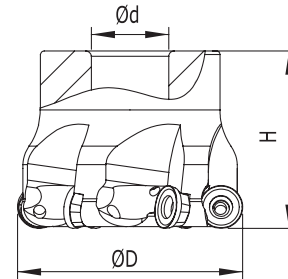


► **RDkW 1003/12T3/1204/1604/2006 ISO**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key
ISO RDkW 1003/12T3/1204/1604/2006											
TK RD..10 001 ISO	✓	✓	40	4	40	16	RDkW 1003	M3,5X10	CK14	M3,5X8	T15
TK RD..10 002 ISO	✓	✓	50	5	46	22					
TK RD..10 003 ISO	✓	✓	63	6	50	22					
TK RD..10 004 ISO	✓	✓	80	7	52	27					
TK RD..10 005 ISO	✓	✓	100	8	52	32					
TK RD..12 006 ISO	✓	✓	40	4	40	16	RDkW 12T3	M3,5X10	CK14	M3,5X8	T15
TK RD..12 007 ISO	✓	✓	50	5	46	22					
TK RD..12 008 ISO	✓	✓	52	5	46	22					
TK RD..12 009 ISO	✓	✓	63	6	50	22					
TK RD..12 010 ISO	✓	✓	80	7	52	27					
TK RD..12 011 ISO	✓	✓	100	8	52	32	RDkW 1204	M3,5X10	CK14	M3,5X8	T15
TK RD..12 012 ISO	✓	✓	40	4	40	16					
TK RD..12 013 ISO	✓	✓	50	5	46	22					
TK RD..12 014 ISO	✓	✓	63	6	50	22					
TK RD..12 015 ISO	✓	✓	80	7	52	27					
TK RD..12 016 ISO	✓	✓	100	8	52	32	RDkW 1604	M5X12	TP11	M4X11	T20
TK RD..16 017 ISO	✓	✓	52	4	50	22					
TK RD..16 018 ISO	✓	✓	63	4	50	22					
TK RD..16 019 ISO	✓	✗	66	5	50	27					
TK RD..16 020 ISO	✓	✗	80	5	52	27					
TK RD..16 021 ISO	✓	✗	100	6	52	32					
TK RD..16 022 ISO	✓	✗	125	7	62	40					
TK RD..16 023 ISO	✓	✗	160	8	62	40					
TK RD..16 024 ISO	✓	✗	180	11	62	60					
TK RD..16 025 ISO	✓	✗	200	12	62	60					

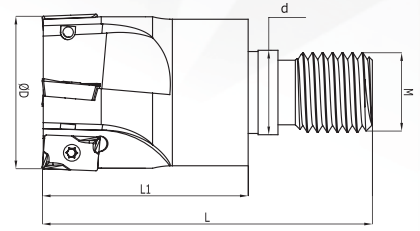
► **RPMT 1204 KYCR**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Cooland	D	Z	H	d	Uç Insert	Vida Screw	Anahtar Torx Key
KYCR RPMT 1204									
TK RPMT 12 001 KYCR	✓	✓	40	4	45	16	RPMT 1204	M4x10	T15
TK RPMT 12 002 KYCR	✓	✓	52	3	50	22			
TK RPMT 12 003 KYCR	✓	✓	52	5	50	22			
TK RPMT 12 004 KYCR	✓	✓	63	6	50	22			
TK RPMT 12 005 KYCR	✓	✓	66	6	50	22			
TK RPMT 12 006 KYCR	✓	✓	66	6	50	27			

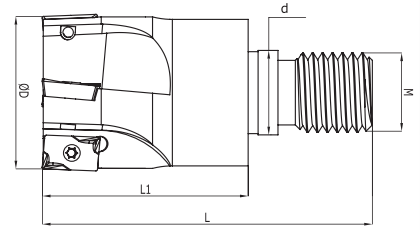


► 90° AP.. 1003/1604 ISO



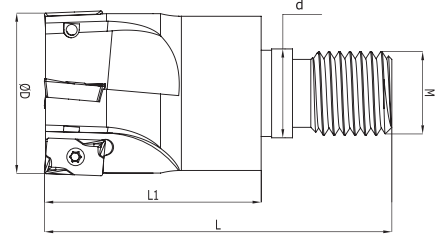
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
ISO AP.. 1003/1604		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT AP..10 001 ISO	✓	✓	25	3	28	50	12,5	M12	AP..1003	M2,5X7	T08	
VT AP..10 002 ISO	✓	✓	32	4	35	60	17	M16				
VT AP..10 003 ISO	✓	✓	35	4	35	60	17	M16				
VT AP..10 004 ISO	✓	✓	35	5	35	60	17	M16				
VT AP..10 005 ISO	✓	✓	40	5	35	60	17	M16				
VT AP..10 006 ISO	✓	✓	42	5	35	60	17	M16				
VT AP..16 007 ISO	✓	✓	25	2	28	50	12,5	M12	AP..1604	M3,5X9	T15	
VT AP..16 008 ISO	✓	✓	32	3	35	60	17	M16				
VT AP..16 009 ISO	✓	✓	40	4	35	60	17	M16				

► 90° APMT 11T3



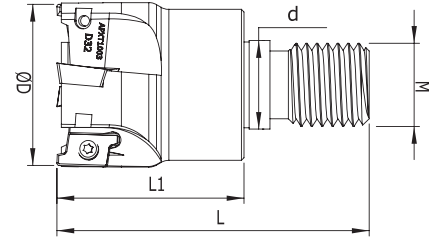
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
APMT 11T3		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT APMT 11 001	X	✓	20	3	36	60	10,5	M10	APMT 11T3	M2,5x7	T8	
VT APMT 11 002	X	✓	25	3	36	60	12,5	M12				
VT APMT 11 003	X	✓	25	4	36	60	12,5	M12				
VT APMT 11 004	X	✓	32	4	36	60	17	M16				
VT APMT 11 005	X	✓	40	5	36	60	17	M16				

► 90° BDMT 11T3/1704 KYCR



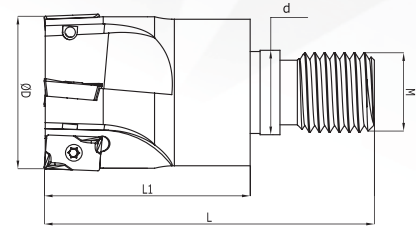
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
KYCR BDMT 11T3/1704		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT BDMT 11 001 KYCR	✓	✓	20	3	28	50	10,5	M10	BDMT 11T3	M2,5x7	T08	
VT BDMT 11 002 KYCR	✓	✓	25	3	35	60	12,5	M12				
VT BDMT 11 003 KYCR	✓	✓	35	4	35	60	17	M16				
VT BDMT 17 004 KYCR	✓	✓	25	2	35	60	12,5	M12	BDMT 1704	M4x10	T15	
VT BDMT 17 005 KYCR	✓	✓	32	3	35	60	12,5	M12				

► 90° APXT 1003 KLP



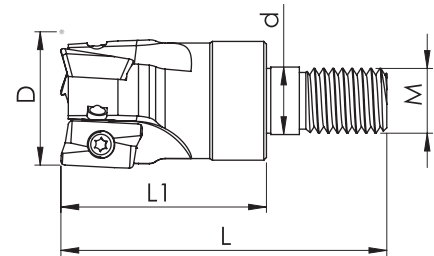
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
KLP APXT 1003		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT APXT 10 001 KLP	✓	✓	25	3	28	50	12,5	M12	APXT 1003	M2,5x7	T8	
VT APXT 10 002 KLP	✓	✓	32	4	36	60	17	M16				
VT APXT 10 003 KLP	✓	✓	40	5	36	60	17	M16				

► 90° APKT 1003 KLP

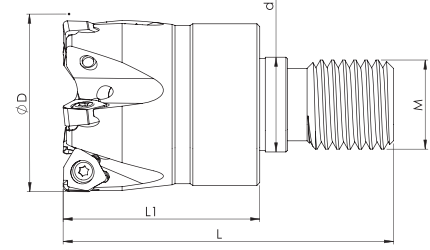


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
KLP APKT 1003		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT APKT 10 001 KLP	✓	✓	25	4	36	60	12,5	M12	APKT 1003	M2,5X7	T08	
VT APKT 10 002 KLP	✓	✓	32	4	36	60	17	M16				
VT APKT 10 003 KLP	✓	✓	35	4	36	60	17	M16				
VT APKT 10 004 KLP	✓	✓	40	5	36	60	17	M16				

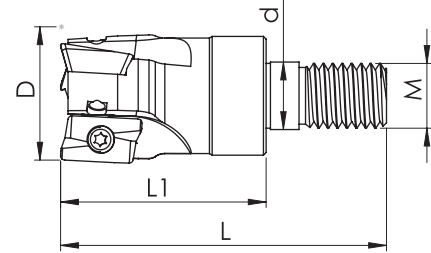
► 90° APKT 1704 KLP



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
KLP APKT 1704		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT APKT 17 001 KLP	✓	✓	25	2	28	50	12,5	M12	APKT 1704	M3,5X11	T15	
VT APKT 17 002 KLP	✓	✓	32	3	42	67	17	M16				
VT APKT 17 003 KLP	✓	✓	40	4	42	67	17	M16				

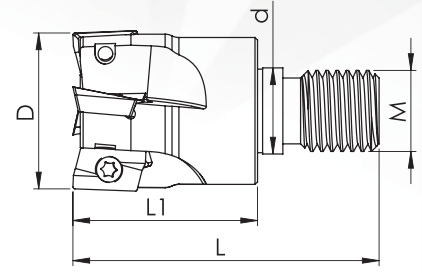
► 90° XNMX 0403 SCO


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
SCO XNMX 0403		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT XNMX 04 000 SCO	✓	✓	25	4	28	50	12,5	M12	XNMX 0403	M3X10	T10	
VT XNMX 04 001 SCO	✓	✓	32	5	28	50	17	M16				
VT XNMX 04 002 SCO	✓	✓	40	6	28	50	17	M16				

► 90° XOMX 1204 SCO


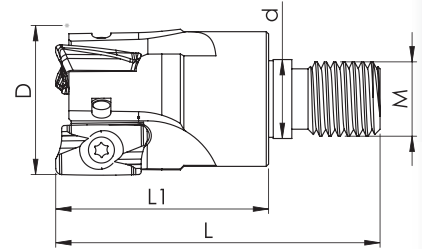
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
SCO XOMX 1204..		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT XOMX 12 001 SCO	✓	✓	25	3	36	60	12,5	M12	XOMX 1204	M3,5X8	T15	
VT XOMX 12 002 SCO	✓	✓	32	4	36	60	17	M16				

► 90° BOMT 1304 INGRSL



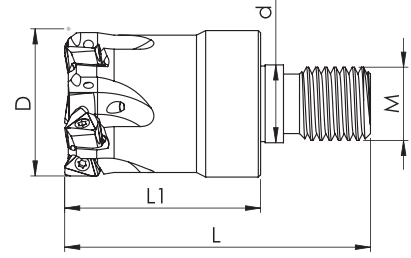
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
INGRSL BOMT 1304		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT BOMT 13 001 INGRSL	✓	✓	25	3	36	60	12,5	M12	BOMT 1304	M3,5X8	T15	
VT BOMT 13 002 INGRSL	✓	✓	32	4	36	60	17	M16				

► 90° AOMT 1605 INGRSL



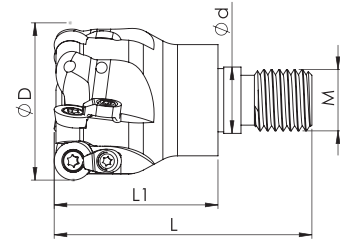
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
INGRSL AOMT 160508		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT AOMT 16 001 INGRSL	✓	✓	25	2	43	68	12,5	M12	AOMT 1605	M4X10	T15	
VT AOMT 16 002 INGRSL	✓	✓	32	3	43	68	17	M16				
VT AOMT 16 003 INGRSL	✓	✓	40	4	43	68	17	M16				

► 90° TNGX 1004 PRMT



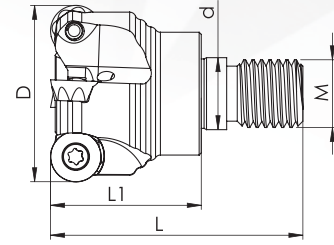
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
PRMT TNGX 1004		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT TNGX 10 001 PRMT	✓	✓	25	4	33	55	12,5	M12	TNGX 1004	M2,5X7	T8	
VT TNGX 10 002 PRMT	✓	✓	32	5	42	66	17	M16				

► RD.. 1003/12T3/1604 ISO



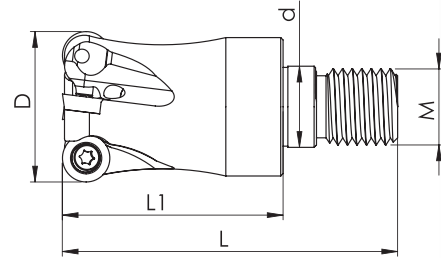
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock												
ISO RD.. 1003/12T3/1604		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key
VT RD..10 001 ISO	✓	✓	25	2	28	52	12,5	M12	RD..1003	M3,5X8	Ck14	M3,5X10	T15
VT RD..10 002 ISO	✓	✓	32	3	40	64	17	M16					
VT RD..10 003 ISO	✓	✓	32	4	40	64	17	M16					
VT RD..10 004 ISO	✓	✓	35	4	40	64	17	M16					
VT RD..10 005 ISO	✓	✓	40	4	43	67	17	M16					
VT RD..10 006 ISO	✓	✓	42	5	43	67	17	M16					
VT RD..12 007 ISO	✓	✓	25	2	28	52	12,5	M12	RD..12T3	M3,5X8	Ck14	M3,5X10	T15
VT RD..12 008 ISO	✓	✓	32	3	40	64	17	M16					
VT RD..12 009 ISO	✓	✓	35	3	40	64	17	M16					
VT RD..12 010 ISO	✓	✓	40	4	40	64	17	M16					
VT RD..12 011 ISO	✓	✓	42	4	43	67	17	M16	RD..1604	M4,5X15	Ck14	M3,5X10	T20
VT RD..16 012 ISO	✓	✓	32	2	40	64	17	M16					
VT RD..16 013 ISO	✓	✓	40	2	40	67	17	M16					

► RHKX 10/12 KLP

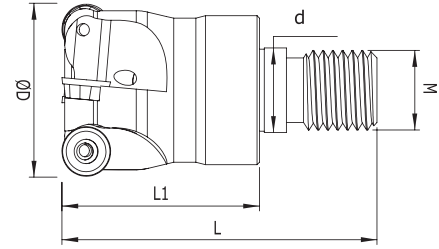


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
KLP RHKX 10/12		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT RHKX 10 001 KLP	✓	✓	32	4	35	60	17	M16	RHKX 10	M3,5X8	T15	
VT RHKX 10 002 KLP	✓	✓	42	5	35	60	17	M16				
VT RHKX 12 003 KLP	✓	✓	32	3	35	60	17	M16				
VT RHKX 12 004 KLP	✓	✓	42	4	35	60	17	M16	RHKX 12	M4X10		

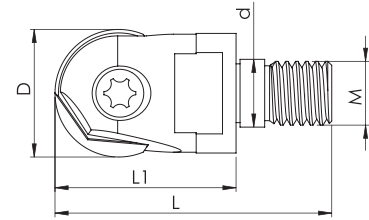
► RDHX 1003 KYCR



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
KYCR RDHX 1003		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT RDHX 10 001 KYCR	✓	✓	32	4	46	70	17	M16	RDHX 1003	M3,5X8	T15	
VT RDHX 10 002 KYCR	✓	✓	42	5	46	70	17	M16				


► RPMT 10T3 KYCR


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KYCR RPMT 10T3		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key
VT RPMT 10 001 KYCR	✓	✓	25	3	36	60	12,5	M12	RPMT 10T3	M3X8	T10
VT RPMT 10 002 KYCR	✓	✓	32	3	36	60	17	M16			
VT RPMT 10 003 KYCR	✓	✓	32	4	36	60	17	M16			
VT RPMT 10 004 KYCR	✓	✓	35	4	36	60	17	M16			
VT RPMT 10 005 KYCR	✓	✓	40	4	36	60	17	M16			
VT RPMT 10 006 KYCR	✓	✓	42	5	36	60	17	M16			

► ZOHX 2005/2506/3207 ZCC


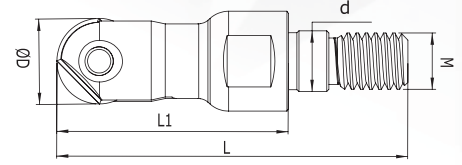
											
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock									
ZCC ZOHX 2005/2506/3207			Inter Cooland	D	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key
VT ZOHX 001 ZCC		✓	✓	32	45	70	17	M16	ZOHX 32	M8X25	T30
VT ZOHX 002 ZCC		✓	✓	25	35	60	17	M16	ZOHX 25	M6X22	T20
VT ZOHX 003 ZCC		✓	✓	20	30	50	17	M16	ZOHX 20	M5X16	

VIDALI TARAMALAR SCREW TYPE



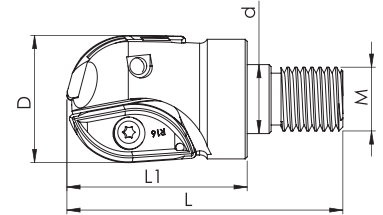
VIDALI TARAMALAR / SCREW TYPE

► ROHX 1203/1604 ZCC



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ZCC ROHX 1203/1604		Inter Cooland	D	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT ROHX 12 001 ZCC	✓	✗	12	41	67	8,5	M8	ROHX 1203	M4X12	T15	
VT ROHX 16 002 ZCC	✓	✗	16	41	67	8,5	M8	ROHX 1604	M5X16		T20
VT ROHX 16 003 ZCC	✓	✗	20	41	67	10,5	M10	ROHX 2005	M5X20		

► XPHT 32 R16 ZCC



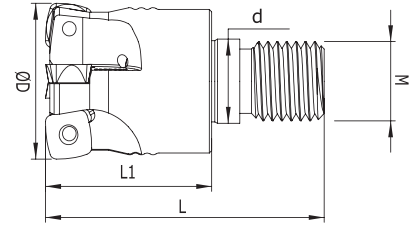
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
ZCC XPHT 32 R16		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key
VT XPHT 001 ZCC	✓	✓	25	2	40	61	12,5	M12	XPHT R12	M4X10	T15
VT XPHT 002 ZCC	✓	✓	32	2	44	68	17	M16	XPHT R16	M5X12	T20

L: Sol/Left
R: Sağ/Right

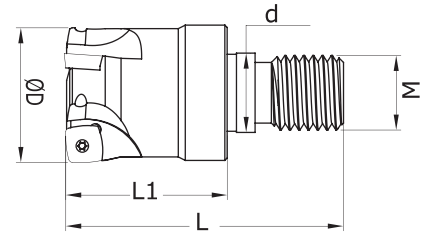
✓ Stokta /In Stock
✗ Stokta Yok /Non Stock

Lütfen sipariş vermeden önce stok durumunu sorunuz.
Please ask the stock status before order.

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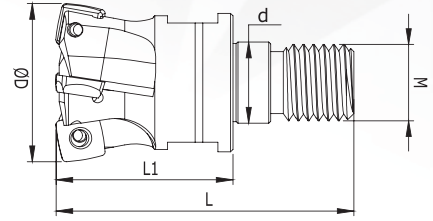

► SDMT 06T2/09T3/1204 ZCC


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
ZCC SDMT 06T2/09T3/1204		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT SDMT 06 001 ZCC	✓	✓	16	2	28	50	8,5	M8	SDMT 06T2	M3X10	T10	
VT SDMT 06 002 ZCC	✓	✓	20	3	35	60	10,5	M10				
VT SDMT 06 003 ZCC	✓	✓	25	4	28	50	12,5	M12				
VT SDMT 09 004 ZCC	✓	✓	25	3	28	50	12,5	M12	SDMT 09T3	M3,5X8	T15	
VT SDMT 09 005 ZCC	✓	✓	32	3	35	60	17	M16				
VT SDMT 09 006 ZCC	✓	✓	35	4	28	50	17	M16				
VT SDMT 09 007 ZCC	✓	✓	40	4	35	60	17	M16				
VT SDMT 09 008 ZCC	✓	✓	40	5	35	60	17	M16				
VT SDMX 09 009 ZCC	✓	✓	42	4	28	50	17	M16				
VT SDMT 12 010 ZCC	✓	✓	42	4	28	50	17	M16	SDMT 1204	M4X11		

► SOEW 0803 PLBT


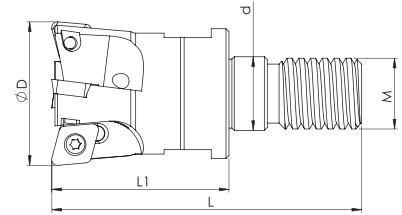
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
PLBT SOEW 0803		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT SOEW 08 001 PLBT	✓	✓	32	4	36	60	17	M16	SOEW 0803	M3X8	T10	
VT SOEW 08 002 PLBT	✓	✓	35	4	36	60	17	M16				
VT SOEW 08 003 PLBT	✓	✓	40	5	36	60	17	M16				
VT SOEW 08 004 PLBT	✓	✓	25	3	36	60	17	M12				
VT SOEW 08 005 PLBT	✓	✓	42	5	36	60	17	M16				

► **SDMX 09T3 PLBT**

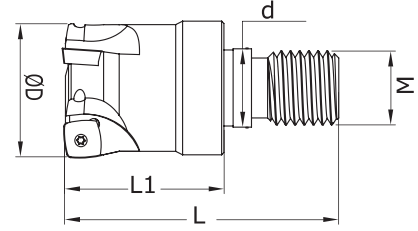


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
PLBT SDMX 09T312		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT SDMX 09 001 PLBT	✓	✓	25	3	28	50	12,5	M12	SDMX 09T3	M3X10	T10	
VT SDMX 09 003 PLBT	✓	✓	32	4	35	60	17	M16				
VT SDMX 09 004 PLBT	✓	✓	35	5	35	60	17	M16				
VT SDMX 09 005 PLBT	✓	✓	42	6	35	60	17	M16				

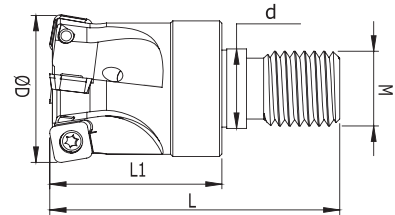
► **XDHW 04/06/09 PLBT**



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
PLBT XDHW 04/06/09		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT XDHW 04 001 PLBT	x	✓	10	2	22	40	6,5	M6	XDHW 0401	M1,8X3,5	T6	
VT XDHW 04 002 PLBT	✓	✓	12	3	22	40	6,5	M6				
VT XDHW 04 003 PLBT	✓	✓	16	4	25	42	8,5	M8				
VT XDHW 06 001 PLBT	✓	✓	16	2	25	42	8,2	M8	XDHW 0602	M2,5X7	T8	
VT XDHW 06 002 PLBT	✓	✓	25	3	30	52	12,5	M12				
VT XDHW 06 003 PLBT	✓	✓	32	5	35	62	17	M16				
VT XDHW 06 004 PLBT	✓	✓	35	5	35	62	17	M16				
VT XDHW 06 005 PLBT	✓	✓	20	3	30	52	10,5	M10				
VT XDHW 06 006 PLBT	✓	✓	42	6	30	62	17	M16				
VT XDHW 06 007 PLBT	✓	✓	25	4	30	52	12,5	M12	XDHW 09T3	M4X10	T15	
VT XDHW 09 001 PLBT	✓	✓	25	2	28	50	12,5	M12				
VT XDHW 09 002 PLBT	✓	✓	32	3	35	60	17	M16				
VT XDHW 09 003 PLBT	✓	✓	42	4	42	65	17	M16				

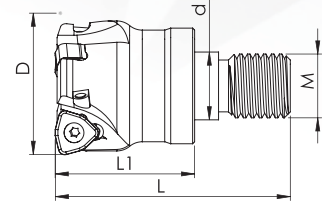

► SP.. 08T3 PLBT


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
PLBT SP.. 08T3		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT SP.. 08 001 PLBT	✓	✓	25	3	28	50	12,5	M12	SP..08T3	M3X10	T10	
VT SP.. 08 002 PLBT	✓	✓	32	3	35	60	17	M16				
VT SP.. 08 003 PLBT	✓	✓	42	5	35	60	17	M16				

► SOMW/SOMT 0803 PLBT


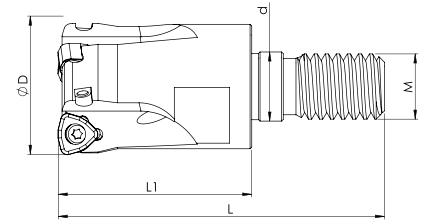
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
PLBT SOMT/SOMW 080315		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT SOMW 08 001 PLBT	✓	✓	20	2	36	60	10,5	M10	SOMT SOMW 0803	M3X8	T10	
VT SOMW 08 002 PLBT	✓	✓	25	3	36	60	12,5	M12				
VT SOMW 08 003 PLBT	✓	✓	32	4	36	60	17	M16				
VT SOMW 08 004 PLBT	✓	✓	42	5	36	60	17	M16				

► WNMX 09T3 KRLY



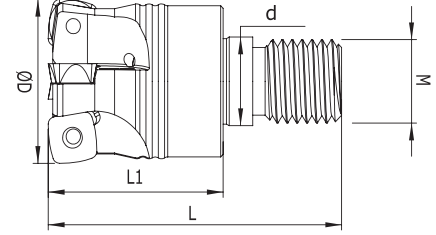
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
KRLY WNMX 09T316		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT WNMX 09 001 KRLY	✓	✓	25	2	28	50	12,5	M12	WNMX 09T3	M3X10	T10	
VT WNMX 09 002 KRLY	✓	✓	32	3	38	60	17	M16				
VT WNMX 09 003 KRLY	✓	✓	35	3	38	60	17	M16				
VT WNMX 09 004 KRLY	✓	✓	35	4	38	60	17	M16				
VT WNMX 09 005 KRLY	✓	✓	40	4	38	60	17	M16				

► WNMX 0603 KRLY



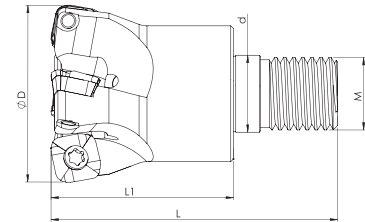
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
KRLY WNMX 060312		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT WNMX 06 001 KRLY	✓	✓	16	2	25	42	8,5	M8	WNMX 0603	M2,5X8	T08	
VT WNMX 06 002 KRLY	✓	✓	20	3	35	60	10,5	M10				
VT WNMX 06 003 KRLY	✓	✓	25	3	35	60	12,5	M12				
VT WNMX 06 004 KLRY	✓	✓	25	4	35	60	12,5	M12				
VT WNMX 06 005 KLRY	✓	✓	35	5	35	60	17	M16				

► SDMT 0703/09T3 KLP



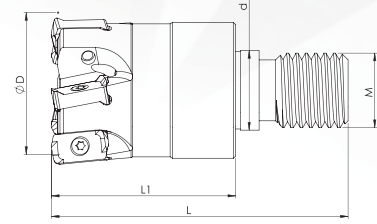
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
KLP SDMT 070308/09T312		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT SDMT 07 001 KLP	✓	✓	20	2	28	50	10,5	M10	SDMT 0703	M3x8	T10	
VT SDMT 07 002 KLP	✓	✓	25	3	28	50	12,5	M12				
VT SDMT 07 003 KLP	✓	✓	25	2	28	50	12,5	M12				
VT SDMT 07 004 KLP	✓	✓	32	4	35	60	17	M16				
VT SDMT 09 001 KLP	✓	✓	25	2	28	50	12,5	M12	SDMT 09T3	M3,5x10	T15	
VT SDMT 09 002 KLP	✓	✓	32	3	35	60	17	M16				
VT SDMT 09 003 KLP	✓	✓	32	4	35	60	17	M16				
VT SDMT 09 004 KLP	✓	✓	35	4	35	60	17	M16				
VT SDMT 09 005 KLP	✓	✓	42	4	35	60	17	M16				
VT SDMT 09 006 KLP	✓	✓	40	5	35	60	17	M16				
VT SDMT 09 007 KLP	✓	✓	42	5	35	60	17	M16				

► SOMT 1004/1404 KYCR



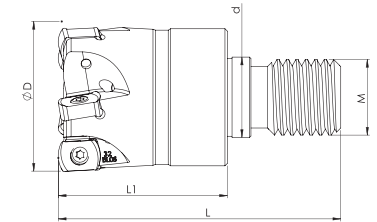
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
KYCR SOMT 1004/1404		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT SOMT 10 001 KYCR	✓	✓	32	3	40	63	17	M16	SOMT 1004	M4X10	T15	
VT SOMT 10 002 KYCR	✓	✓	35	3	40	63	17	M16				
VT SOMT 10 003 KYCR	✓	✓	40	4	40	63	17	M16				
VT SOMT 10 004 KYCR	✓	✓	42	4	40	63	17	M16				
VT SOMT 14 005 KYCR	✓	✓	42	3	40	63	17	M16	SOMT 1404	M5X12	T20	

► LOGU 0303 KYCR

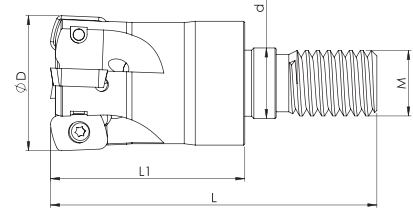


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
KYCR LOGU 030310		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key
VT LOGU 03 001 KYCR	✓	✓	20	3	36	60	10,5	M10	LOGU 0303	M3X8	T08
VT LOGU 03 002 KYCR	✓	✓	25	4	36	60	12,5	M12			
VT LOGU 03 003 KYCR	✓	✓	32	5	38	62	17	M16			
VT LOGU 03 004 KYCR	✓	✓	40	6	40	65	17	M16			
VT LOGU 03 005 KYCR	✓	✓	42	6	40	65	17	M16			

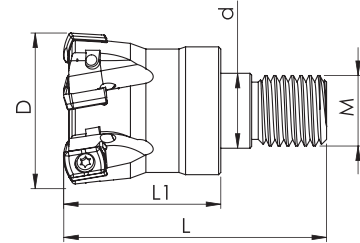
► BLM. 0603 TT



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
TT BLM. 0603		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key
VT BLM 06 001 TT	✓	✓	32	5	36	60	17	M16	BLM 0603	M2,5X8	T08
VT BLM 06 002 TT	✓	✓	42	6	36	60	17	M16			
VT BLM 06 003 TT	✓	✓	20	3	36	60	12,5	M12			

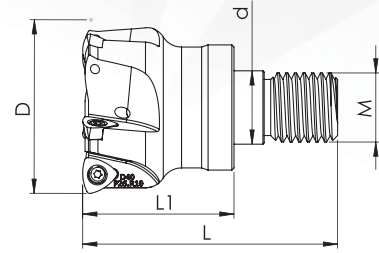

► APKW 1003


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
APKW 1003		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT APKW 10 001 FR	✓	✓	16	2	28	50	8,5	M8	APKW 1003	M2,5X7	T8	
VT APKW 10 002 FR	✓	✓	20	3	35	60	10,5	M10				
VT APKW 10 003 FR	✓	✓	25	4	35	60	12,5	M12				

► LNMT 0603 KRLY


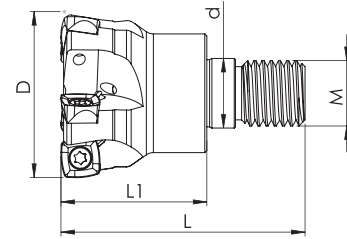
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
KRLY LNMT 060310		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT LNMT 06 001 KRLY	✓	✓	25	3	36	60	12,5	M12	LNMT 0603	M3X8	T10	
VT LNMT 06 002 KRLY	✓	✓	35	5	36	60	17	M16				
VT LNMT 06 003 KRLY	✓	✓	40	6	36	60	17	M16				

► P26335 R10/R14 WLTR

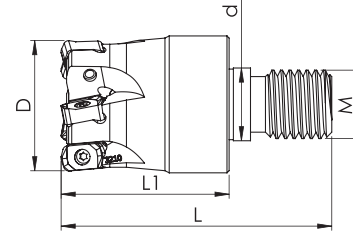


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WLTR P26335 R10/R14		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key
VT P2633 R14 002 WLTR	✓	✓	40	5	36	60	17	M16	P26..R-10	M2,5X7	T8
VT P2633 R10 004 WLTR	✓	✓	32	3	36	60	17	M16	P26..R-14	M4X11	T15

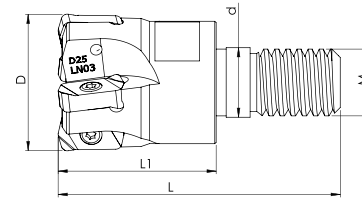
► SDKX 0904/1205 LMN



Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
LMN SDKX 0904/1205		Inter Cooland	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key
VT SDKX 09 001 LMN	✓	✓	35	4	36	60	17	M16	SDKX 0904	M3,5X8	T15
VT SDKX 09 002 LMN	✓	✓	42	5	36	60	17	M16			
VT SDKX 12 003 LMN	✓	✓	32	2	36	60	17	M16	SDKX 1205	M4X11	

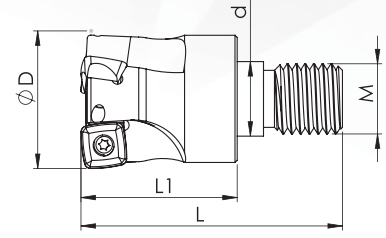

► BNGX 10T3 PRMT


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
PRMT BNGX 10T3		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key
VT BNGX 10 001 PRMT	✓	✓	25	4	28	50	12,5	M12	BNGX 10T3	M2,5X8	T8
VT BNGX 10 002 PRMT	✓	✓	32	5	38	62	17	M16			

► LNMU 0303 TNGLY


												
Kesici Uç Uyumluluğu Insert Suitability		Stok Stock										
TNGLY LNMU 0303			Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key
VT LNMU 03 001 TNG		×	×	25	4	28	50	12,5	M12	LNMU 0303	M2,5X8	T8
VT LNMU 03 002 TNG		✓	✓	32	5	38	62	17	M16			

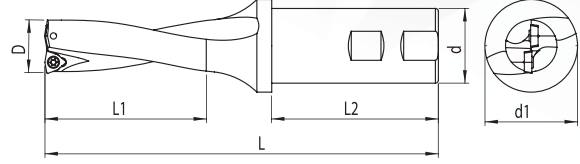
► SDMT 1004 BHLR



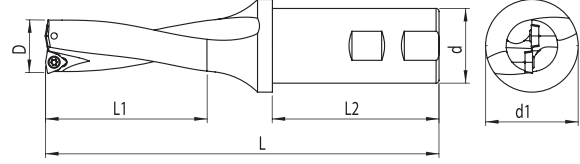
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
BHLR SDMT 1004		Inter Coolant	D	Z	L1	L	d	M	Uç Insert	Vida Screw	Anahtar Torx Key	
VT SDMT 10 001 BHLR	✓	✓	32	3	26	60	17	M16	SDMT 1004	M2,5X7	T8	
VT SDMT 10 002 BHLR	✓	✓	25	2	28	50	12,5	M12				



► DRILL WCM. D2

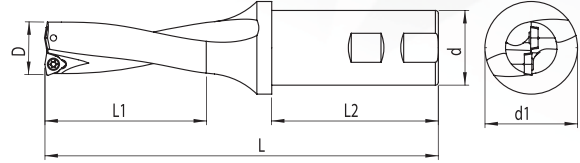


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Coolant	D	d	d1	L	L1	L2			
WCM									Uç Insert	Vida Screw	Anahtar Torx Key
WCM D2 016 ISO	✓	✓	16	25	34	110	32	50	WCM 030208	M2,5X5	T08
WCM D2 017 ISO	✓	✓	17	25	34	112	34	56			
WCM D2 018 ISO	✓	✓	18	25	34	114	36	56			
WCM D2 019 ISO	✓	✓	19	25	34	116	38	56	WCM 040208	M2,5X5	T08
WCM D2 020 ISO	✓	✓	20	25	34	119	40	56			
WCM D2 021 ISO	✓	✓	21	25	34	122	42	56			
WCM D2 022 ISO	✓	✓	22	25	34	125	44	56	WCM 050308	M3X9	T10
WCM D2 023 ISO	✓	✓	23	25	34	128	46	56			
WCM D2 024 ISO	✓	✓	24	25	34	129	48	56			
WCM D2 025 ISO	✓	✓	25	25	34	131	50	56	WCM 06T308	M3,5X9	T15
WCM D2 026 ISO	✓	✓	26	25	34	134	52	56			
WCM D2 027 ISO	✓	✓	27	25	34	137	54	56			
WCM D2 028 ISO	✓	✓	28	25	34	140	56	56	WCM 080412	M4X11	T15
WCM D2 029 ISO	✓	✓	29	25	34	143	58	56			
WCM D2 030 ISO	✓	✓	30	32	44	150	60	60			
WCM D2 031 ISO	✓	✓	31	32	44	153	62	60	WCM 080412	M4X11	T15
WCM D2 032 ISO	✓	✓	32	32	44	156	64	60			
WCM D2 033 ISO	✓	✓	33	32	44	159	66	60			
WCM D2 034 ISO	✓	✓	34	32	44	162	68	60	WCM 080412	M4X11	T15
WCM D2 035 ISO	✓	✓	35	32	44	165	70	60			
WCM D2 036 ISO	✓	✓	36	32	44	168	72	60			
WCM D2 037 ISO	✓	✓	37	32	44	171	74	60	WCM 080412	M4X11	T15
WCM D2 038 ISO	✓	✓	38	32	44	174	76	60			
WCM D2 039 ISO	✓	✓	39	32	44	177	78	60			
WCM D2 040 ISO	✓	✓	40	32	44	180	80	60	WCM 080412	M4X11	T15
WCM D2 041 ISO	✓	✓	41	32	44	183	82	60			
WCM D2 042 ISO	✓	✓	42	32	44	186	84	60			
WCM D2 043 ISO	✓	✓	43	32	44	189	86	60	WCM 080412	M4X11	T15
WCM D2 044 ISO	✓	✓	44	32	44	192	88	60			
WCM D2 045 ISO	✓	✓	45	40	54	195	90	70			
WCM D2 046 ISO	✓	✓	46	40	54	198	92	70	WCM 080412	M4X11	T15
WCM D2 047 ISO	✓	✓	47	40	54	201	94	70			
WCM D2 048 ISO	✓	✓	48	40	54	204	96	70			
WCM D2 049 ISO	✓	✓	49	40	54	207	98	70	WCM 080412	M4X11	T15
WCM D2 050 ISO	✓	✓	50	40	54	210	100	70			

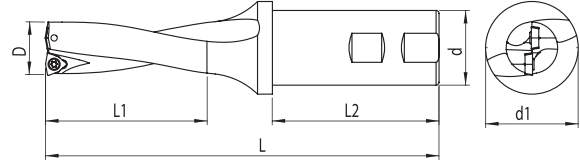

► DRILL WCM. D3


											
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WCM		Inter Cooland	D	d	d1	L	L1	L2	Uç Insert	Vida Screw	Anahtar Torx Key
WCM.D3 015,5 ISO	✓	✓	15,5	25	34	126	46.5	56	WCM 030208	M2.5X5	T08
WCM.D3 016 ISO	✓	✓	16	25	34	126	48	56			
WCM.D3 016,5 ISO	✓	✓	16,5	25	34	129	49.5	56			
WCM.D3 017 ISO	✓	✓	17	25	34	129	51	56			
WCM.D3 017,5 ISO	✓	✓	17,5	25	34	132	52.5	56			
WCM.D3 018 ISO	✓	✓	18	25	34	132	54	56			
WCM.D3 018,5 ISO	✓	✓	18,5	25	34	135	55.5	56			
WCM.D3 019 ISO	✓	✓	19	25	34	135	57	56			
WCM.D3 019,5 ISO	✓	✓	19,5	25	34	139	58.5	56			
WCM.D3 020 ISO	✓	✓	20	25	34	139	60	56	WCM 040208	M2.5X5	T08
WCM.D3 020,5 ISO	✓	✓	20,5	25	34	143	61.5	56			
WCM.D3 021 ISO	✓	✓	21	25	34	143	63	56			
WCM.D3 021,5 ISO	✓	✓	21,5	25	34	147	64.5	56			
WCM.D3 022 ISO	✓	✓	22	25	34	147	66	56			
WCM.D3 022,5 ISO	✓	✓	22,5	25	34	151	67.5	56			
WCM.D3 023 ISO	✓	✓	23	25	34	151	69	56			
WCM.D3 023,5 ISO	✓	✓	23,5	25	34	153	70.5	56			
WCM.D3 024 ISO	✓	✓	24	25	34	153	72	56			
WCM.D3 024,5 ISO	✓	✓	24,5	25	34	156	73.5	56			
WCM.D3 025 ISO	✓	✓	25	25	34	156	75	56			
WCM.D3 025,5 ISO	✓	✓	25,5	25	34	160	76.5	56			
WCM.D3 026 ISO	✓	✓	26	25	34	160	78	56			
WCM.D3 026,5 ISO	✓	✓	26,5	25	34	164	79,5	56			
WCM.D3 027 ISO	✓	✓	27	25	34	164	81	56			
WCM.D3 027,5 ISO	✓	✓	27,5	25	34	168	82,5	56			
WCM.D3 028 ISO	✓	✓	28	25	34	168	84	56	WCM 06T308	M3.5X9	T15
WCM.D3 028,5 ISO	✓	✓	28,5	25	34	172	85,5	56			
WCM.D3 029 ISO	✓	✓	29	25	34	172	87	56			
WCM.D3 029,5 ISO	✓	✓	29,5	25	34	180	88,5	56			
WCM.D3 030 ISO	✓	✓	30	32	44	180	90	60			
WCM.D3 031 ISO	✓	✓	31	32	44	184	93	60			
WCM.D3 032 ISO	✓	✓	32	32	44	188	96	60			
WCM.D3 033 ISO	✓	✓	33	32	44	192	99	60			
WCM.D3 034 ISO	✓	✓	34	32	44	192	102	60			
WCM.D3 035 ISO	✓	✓	35	32	44	200	105	60			
WCM.D3 036 ISO	✓	✓	36	32	44	204	108	60			
WCM.D3 037 ISO	✓	✓	37	32	44	208	111	60			
WCM.D3 038 ISO	✓	✓	38	32	44	212	114	60			
WCM.D3 039 ISO	✓	✓	39	32	44	216	117	60			
WCM.D3 040 ISO	✓	✓	40	32	44	220	120	60			
WCM.D3 041 ISO	✓	✓	41	32	44	223	123	60			
WCM.D3 042 ISO	✓	✓	42	32	44	226	126	60			
WCM.D3 043 ISO	✓	✓	43	32	44	229	129	60	WCM 080412	M4X11	T15
WCM.D3 044 ISO	✓	✓	44	32	44	232	132	60			
WCM.D3 045 ISO	✓	✓	45	40	54	245	135	70			
WCM.D3 046 ISO	✓	✓	46	40	54	248	138	70			
WCM.D3 047 ISO	✓	✓	47	40	54	251	141	70			
WCM.D3 048 ISO	✓	✓	48	40	54	254	144	70			
WCM.D3 049 ISO	✓	✓	49	40	54	257	147	70			
WCM.D3 050 ISO	✓	✓	50	40	54	260	150	70			

► DRILL WCM. D4

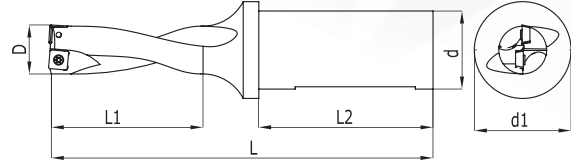


												
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
WCM		Inter Cooland	D	d	d1	L	L1	L2	Uç Insert	Vida Screw	Anahtar Torx Key	
WCM.D4 016 ISO	✓	✓	16	25	34	142	64	56	WCM.030208	M2,5X5	T08	
WCM.D4 017 ISO	✓	✓	17	25	34	146	68	56				
WCM.D4 017,5 ISO	✓	✓	17,5	25	34	150	72	56				
WCM.D4 018 ISO	✓	✓	18	25	34	150	72	56				
WCM.D4 019 ISO	✓	✓	19	25	34	154	76	56				
WCM.D4 019,5 ISO	✓	✓	19,5	25	34	159	80	56				
WCM.D4 020 ISO	✓	✓	20	25	34	159	80	56	WCM.040208			
WCM.D4 021 ISO	✓	✓	21	25	34	164	84	56				
WCM.D4 022 ISO	✓	✓	22	25	34	169	88	56				
WCM.D4 023 ISO	✓	✓	23	25	34	174	92	56				
WCM.D4 024 ISO	✓	✓	24	25	34	177	96	56	WCM.050308	M3X9	T10	
WCM.D4 025 ISO	✓	✓	25	25	34	181	100	56				
WCM.D4 026 ISO	✓	✓	26	25	34	186	104	56				
WCM.D4 027 ISO	✓	✓	27	25	34	191	108	56				
WCM.D4 028 ISO	✓	✓	28	25	34	196	112	56				
WCM.D4 029 ISO	✓	✓	29	25	34	201	116	56				
WCM.D4 030 ISO	✓	✓	30	32	44	210	120	60	WCM.06T308	M3,5X9	T15	
WCM.D4 031 ISO	✓	✓	31	32	44	215	124	60				
WCM.D4 032 ISO	✓	✓	32	32	44	220	128	60				
WCM.D4 033 ISO	✓	✓	33	32	44	225	132	60				
WCM.D4 034 ISO	✓	✓	34	32	44	230	136	60		M3,5X11		
WCM.D4 035 ISO	✓	✓	35	32	44	235	140	60				
WCM.D4 036 ISO	✓	✓	36	32	44	238	144	60				
WCM.D4 037 ISO	✓	✓	37	32	44	241	148	60				
WCM.D4 038 ISO	✓	✓	38	32	44	244	152	60				
WCM.D4 039 ISO	✓	✓	39	32	44	247	166	60				
WCM.D4 040 ISO	✓	✓	40	32	44	250	160	60				
WCM.D4 041 ISO	✓	✓	41	32	44	253	164	60				
WCM.D4 042 ISO	✓	✓	42	32	44	256	168	60				
WCM.D4 043 ISO	✓	✓	43	32	44	259	172	60				
WCM.D4 044 ISO	✓	✓	44	32	44	262	176	60				

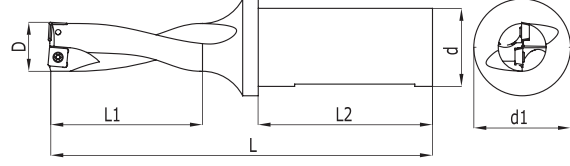

► DRILL WCM. D5


											
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
WCM		Inter Cooland	D	d	d1	L	L1	L2	Uç Insert	Vida Screw	Anahtar Torx Key
WCM.D5 016 ISO	✓	✓	16	25	34	153	80	56	WCM.030208	M2,5X5	T08
WCM.D5 017 ISO	✓	✓	17	25	34	158	85	56			
WCM.D5 018 ISO	✓	✓	18	25	34	163	90	56			
WCM.D5 019 ISO	✓	✓	19	25	34	168	95	56			
WCM.D5 020 ISO	✓	✓	20	25	34	174	100	56			
WCM.D5 021 ISO	✓	✓	21	25	34	180	105	56	WCM.040208	M2,5X5	T08
WCM.D5 022 ISO	✓	✓	22	25	34	186	110	56			
WCM.D5 023 ISO	✓	✓	23	25	34	192	115	56			
WCM.D5 024 ISO	✓	✓	24	25	34	196	120	56			
WCM.D5 025 ISO	✓	✓	25	25	34	200	125	56			
WCM.D5 026 ISO	✓	✓	26	25	34	206	130	56	WCM.050308	M3X9	T10
WCM.D5 027 ISO	✓	✓	27	25	34	212	135	56			
WCM.D5 028 ISO	✓	✓	28	25	34	218	140	56			
WCM.D5 029 ISO	✓	✓	29	25	34	224	145	56			
WCM.D5 030 ISO	✓	✓	30	32	44	233	150	60			
									WCM.06T308	M3,5X9	T15

► DRILL SP.. D2

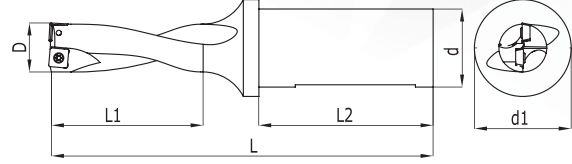


Kesici Uç Uyumluluğu Insert Suitability	Stok Stock	Inter Coolant	D	d	d1	L	L1	L2	Uç Insert	Vida Screw	Anahtar Torx Key
TGTC / PLBT / ZCC / KLP											
SP..D2 013 ISO	✓	✓	13	20	25	94	26	50	SP..050204	M2X5	T06
SP..D2 014 ISO	✓	✓	14	20	25	97	28	50			
SP..D2 015 ISO	✓	✓	15	20	25	100	30	50			
SP..D2 016 ISO	✓	✓	16	25	34	110	32	50	SP..060204	M2.2X5	T06
SP..D2 017 ISO	✓	✓	17	25	34	112	34	56			
SP..D2 018 ISO	✓	✓	18	25	34	114	36	56			
SP..D2 019 ISO	✓	✓	19	25	34	116	38	56			
SP..D2 019,5 ISO	✓	✓	19,5	25	34	119	40	56			
SP..D2 020 ISO	✓	✓	20	25	34	119	40	56			
SP..D2 20,5 ISO	✓	✓	20,5	25	34	122	42	56	SP..07T308	M2.5X7	T08
SP..D2 021 ISO	✓	✓	21	25	34	122	42	56			
SP..D2 022 ISO	✓	✓	22	25	34	125	44	56			
SP..D2 023 ISO	✓	✓	23	25	34	128	46	56			
SP..D2 024 ISO	✓	✓	24	25	34	129	48	56			
SP..D2 025 ISO	✓	✓	25	25	34	131	50	56			
SP..D2 026 ISO	✓	✓	26	25	34	134	52	56	SP..090408	M3,5X8	T15
SP..D2 027 ISO	✓	✓	27	25	34	137	54	56			
SP..D2 027,5 ISO	✓	✓	27,5	25	34	140	56	56			
SP..D2 028 ISO	✓	✓	28	25	34	140	56	56			
SP..D2 029 ISO	✓	✓	29	25	34	143	58	56			
SP..D2 030 ISO	✓	✓	30	32	44	150	60	60			
SP..D2 031 ISO	✓	✓	31	32	44	153	62	60	SP..110408	M4X11	T15
SP..D2 032 ISO	✓	✓	32	32	44	156	64	60			
SP..D2 033 ISO	✓	✓	33	32	44	159	66	60			
SP..D2 034 ISO	✓	✓	34	32	44	162	68	60			
SP..D2 035 ISO	✓	✓	35	32	44	165	70	60			
SP..D2 036 ISO	✓	✓	36	32	44	168	72	60			
SP..D2 037 ISO	✓	✓	37	32	44	171	74	60	SP..140512	M5X11	T20
SP..D2 038 ISO	✓	✓	38	32	44	174	76	60			
SP..D2 039 ISO	✓	✓	39	32	44	177	78	60			
SP..D2 040 ISO	✓	✓	40	32	44	180	80	60			
SP..D2 041 ISO	✓	✓	41	32	44	183	82	60			
SP..D2 042 ISO	✓	✓	42	32	44	186	84	60			
SP..D2 42,5 ISO	✓	✓	42,5	32	44	189	86	60			
SP..D2 043 ISO	✓	✓	43	32	44	189	86	60			
SP..D2 044 ISO	✓	✓	44	32	44	192	88	60			
SP..D2 045 ISO	✓	✓	45	40	54	195	90	70			
SP..D2 046 ISO	✓	✓	46	40	54	198	92	70			
SP..D2 047 ISO	✓	✓	47	40	54	201	94	70			
SP..D2 048 ISO	✓	✓	48	40	54	204	96	70			
SP..D2 049 ISO	✓	✓	49	40	54	207	98	70			
SP..D2 050 ISO	✓	✓	50	40	54	210	100	70			

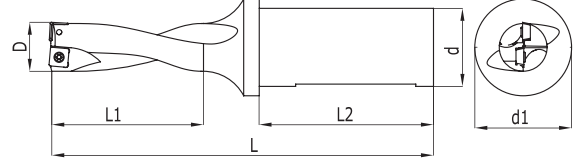

► DRILL SP.. D3


											
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
TGTC / PLBT / ZCC / KLP		Inter Cooland	D	d	d1	L	L1	L2	Uç Insert	Vida Screw	Anahtar Torx Key
SP..D3 013 ISO	✓	✓	13	20	25	101	39	50	SP..050204	M2X5	T06
SP..D3 014 ISO	✓	✓	14	20	25	105	42	50			
SP..D3 014,5 ISO	✓	✓	14,5	20	25	109	45	50			
SP..D3 015 ISO	✓	✓	15	20	25	109	45	50			
SP..D3 015,5 ISO	✓	✓	15,5	20	34	126	48	50			
SP..D3 016 ISO	✓	✓	16	20	34	126	48	50	SP..060204	M2.2X5	
SP..D3 016,5 ISO	✓	✓	16,5	25	34	129	51	50			
SP..D3 017 ISO	✓	✓	17	25	34	129	51	56			
SP..D3 017,5 ISO	✓	✓	17,5	25	34	132	54	56			
SP..D3 018 ISO	✓	✓	18	25	34	132	54	56			
SP..D3 018,5 ISO	✓	✓	18,5	25	34	135	57	56			
SP..D3 019 ISO	✓	✓	19	25	34	135	57	56			
SP..D3 019,5 ISO	✓	✓	19,5	25	34	139	60	56			
SP..D3 020 ISO	✓	✓	20	25	34	139	60	56			
SP..D3 020,5 ISO	✓	✓	20,5	25	34	143	63	56			
SP..D3 021 ISO	✓	✓	21	25	34	143	63	56			
SP..D3 021,5 ISO	✓	✓	21,5	25	34	147	66	56			SP..07T308
SP..D3 022 ISO	✓	✓	22	25	34	147	66	56			
SP..D3 022,5 ISO	✓	✓	22,5	25	34	151	69	56			
SP..D3 023 ISO	✓	✓	23	25	34	151	69	56			
SP..D3 023,5 ISO	✓	✓	23,5	25	34	153	72	56			
SP..D3 024 ISO	✓	✓	24	25	34	153	72	56			
SP..D3 024,5 ISO	✓	✓	24,5	25	34	156	75	56			
SP..D3 025 ISO	✓	✓	25	25	34	156	75	56			
SP..D3 025,5 ISO	✓	✓	25,5	25	34	160	78	56			
SP..D3 026 ISO	✓	✓	26	25	34	160	78	56			
SP..D3 026,5 ISO	✓	✓	26,5	25	34	164	81	56	SP..090408	M3,5X8	
SP..D3 027 ISO	✓	✓	27	25	34	164	81	56			
SP..D3 027,5 ISO	✓	✓	27,5	25	34	168	84	56			
SP..D3 028 ISO	✓	✓	28	25	34	168	84	56			
SP..D3 028,5 ISO	✓	✓	28,5	25	34	172	87	56			
SP..D3 029 ISO	✓	✓	29	25	34	172	87	56			
SP..D3 029,5 ISO	✓	✓	29,5	25	44	180	90	56			
SP..D3 030 ISO	✓	✓	30	32	44	180	90	60			
SP..D3 031 ISO	✓	✓	31	32	44	184	93	60			
SP..D3 032 ISO	✓	✓	32	32	44	188	96	60			SP..110408
SP..D3 033 ISO	✓	✓	33	32	44	192	99	60			
SP..D3 034 ISO	✓	✓	34	32	44	192	102	60			
SP..D3 035 ISO	✓	✓	35	32	44	200	105	60			
SP..D3 036 ISO	✓	✓	36	32	44	204	108	60			
SP..D3 037 ISO	✓	✓	37	32	44	208	111	60			
SP..D3 038 ISO	✓	✓	38	32	44	212	114	60	SP..140512	M5X11	T20
SP..D3 039 ISO	✓	✓	39	32	44	216	117	60			
SP..D3 040 ISO	✓	✓	40	32	44	220	120	60			
SP..D3 041 ISO	✓	✓	41	32	44	223	123	60			
SP..D3 042 ISO	✓	✓	42	32	44	226	126	60			
SP..D3 043 ISO	✓	✓	43	32	44	229	129	60			
SP..D3 044 ISO	✓	✓	44	32	44	232	132	60			
SP..D3 045 ISO	✓	✓	45	40	54	245	135	70			
SP..D3 046 ISO	✓	✓	46	40	54	248	138	70			
SP..D3 047 ISO	✓	✓	47	40	54	251	141	70			
SP..D3 048 ISO	✓	✓	48	40	54	254	144	70			
SP..D3 049 ISO	✓	✓	49	40	54	257	147	70			
SP..D3 050 ISO	✓	✓	50	40	54	260	150	70			

► DRILL SP.. D4

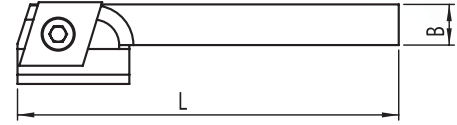
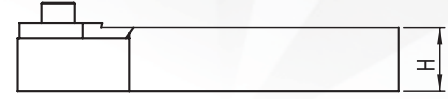


											
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock										
TGTC / PLBT / ZCC / KLP		Inter Cooland	D	d	d1	L	L1	L2	Uç Insert	Vida Screw	Anahtar Torx Key
SP..D4 013 ISO	✓	✓	13	20	25	120	52	50	SP..050204	M2X5	T06
SP..D4 014 ISO	✓	✓	14	20	25	124	56	50			
SP..D4 014,5 ISO	✓	✓	14,5	20	25	128	60	50			
SP..D4 015 ISO	✓	✓	15	20	25	128	60	50			
SP..D4 016 ISO	✓	✓	16	25	34	142	64	50	SP..060204	M2.2X5	
SP..D4 017 ISO	✓	✓	17	25	34	146	68	56			
SP..D4 018 ISO	✓	✓	18	25	34	150	72	56			
SP..D4 019 ISO	✓	✓	19	25	34	154	76	56			
SP..D4 019,5 ISO	✓	✓	19,5	25	34	159	80	56			
SP..D4 020 ISO	✓	✓	20	25	34	159	80	56			
SP..D4 021 ISO	✓	✓	21	25	34	164	84	56			
SP..D4 022 ISO	✓	✓	22	25	34	169	88	56			
SP..D4 023 ISO	✓	✓	23	25	34	174	92	56	SP..070204		
SP..D4 024 ISO	✓	✓	24	25	34	177	96	56			
SP..D4 024,5 ISO	✓	✓	23,5	25	34	181	100	56	SP..07T308	M2.5X7	T08
SP..D4 025 ISO	✓	✓	25	25	34	181	100	56			
SP..D4 026 ISO	✓	✓	26	25	34	186	104	56			
SP..D4 027 ISO	✓	✓	27	25	34	191	108	56			
SP..D4 027,5 ISO	✓	✓	27,5	25	34	196	112	56			
SP..D4 028 ISO	✓	✓	28	25	34	196	112	56			
SP..D4 029 ISO	✓	✓	29	25	34	201	116	56			
SP..D4 030 ISO	✓	✓	30	32	44	210	120	60			
SP..D4 031 ISO	✓	✓	31	32	44	215	124	60			
SP..D4 032 ISO	✓	✓	32	32	44	220	128	60			
SP..D4 033 ISO	✓	✓	33	32	44	225	132	60			
SP..D4 033,5 ISO	✓	✓	33,5	32	44	230	136	60			
SP..D4 034 ISO	✓	✓	34	32	44	230	136	60			
SP..D4 035 ISO	✓	✓	35	32	44	235	140	60			
SP..D4 036 ISO	✓	✓	36	32	44	238	144	60	SP..110408	M4X11	T15
SP..D4 037 ISO	✓	✓	37	32	44	241	148	60			
SP..D4 038 ISO	✓	✓	38	32	44	244	152	60			
SP..D4 038,5 ISO	✓	✓	38,5	32	44	247	156	60			
SP..D4 039 ISO	✓	✓	39	32	44	247	156	60			
SP..D4 040 ISO	✓	✓	40	32	44	250	160	60			
SP..D4 041 ISO	✓	✓	41	32	44	253	164	60			


► DRILL SP.. D5


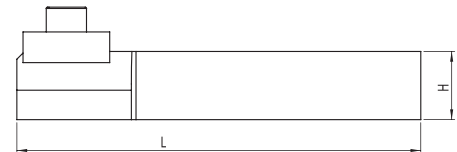
Kesici Uç Uyumluluğu Insert Suitability	Stok Stock											
TGTC / PLBT / ZCC / KLP		Inter Cooland	D	d	d1	L	L1	L2	Uç Insert	Vida Screw	Anahtar Torx Key	
SP..D5 013 ISO	X	✓	13	20	25	120	65	50	SP..050204	M2X5	T06	
SP..D5 014 ISO	X	✓	14	20	25	124	70	50				
SP..D5 015 ISO	X	✓	15	20	25	128	75	50				
SP..D5 016 ISO	✓	✓	16	25	34	153	80	50	SP..060204	M2.2X5		
SP..D5 017 ISO	✓	✓	17	25	34	158	85	56				
SP..D5 018 ISO	✓	✓	18	25	34	163	90	56				
SP..D5 019 ISO	✓	✓	19	25	34	168	95	56				
SP..D5 020 ISO	✓	✓	20	25	34	174	100	56				
SP..D5 021 ISO	✓	✓	21	25	34	180	105	56			SP..070204	
SP..D5 022 ISO	✓	✓	22	25	34	186	110	56				
SP..D5 023 ISO	✓	✓	23	25	34	192	115	56				
SP..D5 024 ISO	✓	✓	24	25	34	196	120	56	SP..07T308	M2.5X7	T08	
SP..D5 025 ISO	✓	✓	25	25	34	200	125	56				
SP..D5 026 ISO	✓	✓	26	25	34	206	130	56				
SP..D5 027 ISO	✓	✓	27	25	34	212	135	56	SP..090408	M3,5X8	T15	
SP..D5 028 ISO	✓	✓	28	25	34	218	140	56				
SP..D5 029 ISO	✓	✓	29	25	34	224	145	56				
SP..D5 030 ISO	✓	✓	30	32	44	233	150	60				

► PASO KATERLERİ - STEP CUTTING TOOLS

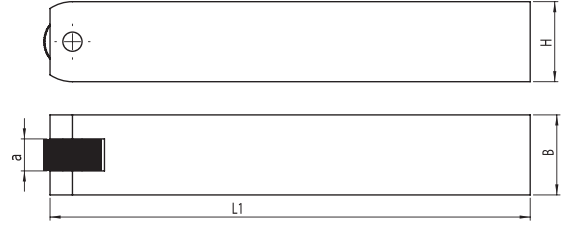


	Stok Stock	H	B	L1	L2	Vida Screw	Anahtar Allen Key
HSS PS 001 ISO	✓	25	17	45	150	M8X25	A6
HSS PS 002 ISO	✓	25	17	45	150		
HSS PS 003 ISO	✓	25	17	45	150		
HSS PS 004 ISO	✓	25	17	45	150		

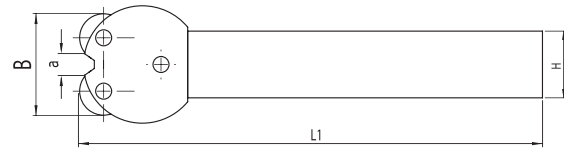
► KESME KATERLERİ - CUTTING TOOLS



	Stok Stock	H	B	L1	L2	Vida Screw	Anahtar Allen Key
HSS KS 001 ISO	✓	25	17	45	150	M8X25	A6
HSS KS 002 ISO	✓	22	16	37	150		
HSS KS 003 ISO	✓	25	17	45	150		
HSS KS 004 ISO	✓	25	17	46	150		
HSS KS 005 ISO	✓	25	17	45	150		

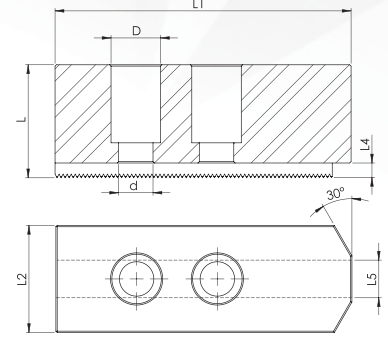

► TIRTIR TEKİLİ - SINGLE TOOLS


	Stok Stock	B	H	a	L	Pim Pin	
TIR TIR 005	✓	16	16	6	125	4x16	
TIR TIR 006	✓	16	16	8	125	6x16	
TIR TIR 007	✓	20	20	8	125	6x20	
TIR TIR 008	✓	20	20	10	125	6x20	
TIR TIR 009	✓	25	25	8	150	6x25	
TIR TIR 010	✓	25	25	10	150	6x25	
TIR TIR 012	✓	16	16	10	125	6X16	
TIR TIR 013	✓	20	20	10	125	6X20	R45
TIR TIR 015	✓	16	16	6	125	4x16	
TIR TIR 016	✓	16	16	6	125	6x16	
TIR TIR 017	✓	16	16	8	125	6x16	
TIR TIR 018	✓	16	16	10	125	6x16	
TIR TIR 019	✓	25	25	10	150	6X25	R45
TIR TIR 020	✓	20	20	10	125	6X20	R45

► TIRTIR ÇİFTLİ - DOUBLE TOOLS


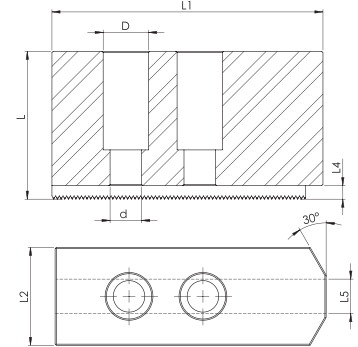
	Stok Stock	B	H	a	L	Pim Pin	
TIR TIR Ç 001	✓	22	22	10	150	6x25	

► STANDART YUMUŞAK AYAK - STANDARD



KOD	Stok Stock	Inter Cooland	D	d	L	L1	L2	L4	L5
SYA 8" 001	✓	X	18,5	12,8	37	95	35	5,5	14,15
SYA 10" 002	✓	X	18,5	12,8	42	110	39,75	5,5	16,15

► YÜKSEK YUMUŞAK AYAK - HIGH



KOD	Stok Stock	Inter Cooland	D	d	L	L1	L2	L4	L5
YYA 8" 001	✓	X	18,5	12,8	67	95	35	5,5	14,15
YYA 10" 002	✓	X	18,5	12,8	77	110	39,8	5,5	16,15


► CİVATALAR - SCREWS


BASKI CİVATALARI
M5X23 A3
M6X27 A3



ALTLIK VIDALARI
M3X10
M4X10
M5X10



BUKSE VİDA
M5X0.5X3.5
M6X0.5X4



TORX VIDALAR
M2X4
M2X5
M2X6
M2.2X5
M2.2X6
M2.5X5
M2.5X6
M2.5X7
M2.5X8
M2.5X10
M3X6
M3X7
M3X8
M3X10
M3.5X8
M3.5X9
M3.5X10
M3.5X11
M3.5X14
M4X11
M4X12
M4.5X12
M4.5X16
M5X12



BASKI VIDASI
M6X0.75 TPKN 16



BASKI VIDASI
M8X1 TPKN 22



KESME KATER VIDASI
M6X27 A4

► KÜRE TAKIM VIDALARI - BALL NOSE SCREWS


KÜRE TAKIM VIDALARI
M3X7 D8
M4X9 D10
M5X10 D12
M5X12 D16
M5X16 D20
M6X22 D25
M8X25 D30

► ALTILIKLAR - SHIMS



ALTILIK
DNMG 15
DNMG 11



ALTILIK
CNMG 12
CNMG 16
CNMG 19



ALTILIK
TNMG 16
TNMG 22



ALTILIK
WNMG 08



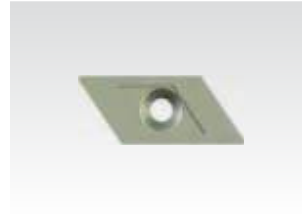
ALTILIK
DCMT 11



ALTILIK
VBMT 16
VCMT 16



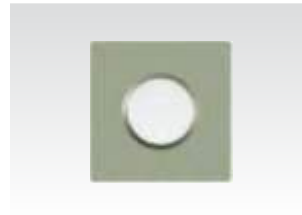
ALTILIK
KNUX 16 SAĞ



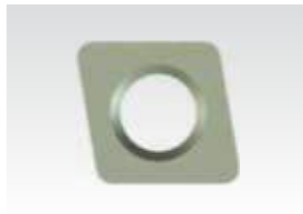
ALTILIK
KNUX 16 SOL



ALTILIK
SIR/SER 16
SIR/SER 22



ALTILIK
SNMG 12
SNMG 15
SNMG 19



ALTILIK
CCMT 12



ALTILIK
TCMT 16


► BASKI KEPLERİ - CLAMPS

	BASKI PABUCU T190105 CNMG 19 T190105 SNMG 19		BASKI PABUCU M220105 TNMG 22
	BASKI PABUCU T110105 DNMG 11 T160105 TNMG 16 T060105 WNMG 06		BASKI PABUCU T120105 SNMG 12 T120105 CNMG 12 T150105 DNMG 15 T220105 TNMG 22 T060105 WNMG 08
	BASKI PABUCU T160105 CNMG 16 T160105 SNMG 16		BASKI PABUCU M160105 TNMG 16
	BASKI PABUCU M060105 WNMG 06		BASKI PABUCU C160105 KNUX 16 SAĞ C160105 KNUX 16 SOL C160105 KNUX 16 SOL VE SAĞ
	BASKI PABUCU C110105 TPKN 11 C110105 SNHX 12 C110105 SER/SEL 16 C110105 SER/SEL 22		BASKI PABUCU C160105 TPKN 16
	M SİSTEM ALTLIK PİMİ 5X3.6X15 TNMG 16 5X3.6X15 WNMG 06		BASKI PABUCU M080105 WNMG 08
	BASKI PABUÇ YAYI		BASKI PABUÇ VİDASI PULU 10X6X1 MM
	M SİSTEM ALTLIK PİMİ 6X5X18 TNMG 22 6X5X18 WNMG 08		

► TORNALAMA İÇİN FORMÜLLER

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

Revolutions / Umdrehungen Revs / min.
Umdrehungen / min.

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

V_c: Kesme Hızı (m./dak.)
Cutting Speed / Schnittgeschwindigkeit (Meter/Min)

$$\text{KESME HIZI} = V_c = \frac{\pi \times D \times n}{1000} \quad \text{metre / dakika}$$

Cutting speed
Schnittgeschwindigkeit meter / min.

D: İş Parçasının Çapı (mm)
Workpiece diameter / Werkstückdurchmesser

π: Sabit Sayı(3,14)
Constant (3,14) / Gleich bleibend (3,14)

► TORNALAMADA İŞLEME ZAMANININ HESAPLANMASI

$$\text{Çap Tornalamada} = t_h = \frac{L \times P_s}{n \times f} \quad \text{dakika}$$

Ürning diameter / Drehdurchmesser min.

P_s: Paso Sayısı (kaç defa'da)
no of passes / Durchgänge

t_h: İşleme Zamanı (dakika)
Processing Time / Bearbeitungszeit (min)

f: İlerleme (mm)
Length delivery / Stirn Zustellung (min.)

$$\text{Alın Tornalama} = t_h = \frac{d \times \pi \times L \times P_s}{V_c \times 1000 \times f} \quad \text{dakika}$$

Length turning / Stirn Drehen min.

Alın Tornalama
İçin Boy
Length head turning / Länge für Stirn Drehen

$$L = \frac{d_1 - d_2}{2} \quad \text{mm}$$

Dolu Malzemede
Alın Tornalama
Solid Stock front turning / Massive Werkstücke Stirn Drehen

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

► YÜZEY FREZELEMEDE KULLANILAN FORMÜLLER

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

Revolutions / Umdrehungen Revs / min.
Umdrehungen / min.

z: Frezenin Ağız Sayısı (adet)
Number of tooth / Anzahl Schneiden

k: Disk Frezenin Efektif Ağız sayısı (adet)
Effective edge of the cutter / Effektive Schneiden des Fräasers

$$\text{KESME HIZI} = V_c = \frac{\pi \times D \times n}{1000} \quad \text{metre / dakika}$$

Revolutions / Umdrehungen meter / min.

f_z: Ağız başına ilerleme (mm/ağız)
Delivery per cutting mm /Z/ Zustellung pro Schneide mm/Z

t_h: İşleme Zamanı (dak.)
Processing time / Bearbeitungszeit minute

$$\text{TABLA İLERLEMESİ} = V_f = n \times z \times f_z \quad \text{mm/ dak}$$

Delivery / Zustellung mm / min.

P_s: Paso Sayısı
Number of passes / Anzahl der Durchgänge



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MATKAPLAR DRILLS

MATKAPLAR DRILLS



SAPPHIRE
CUTTING TOOLS

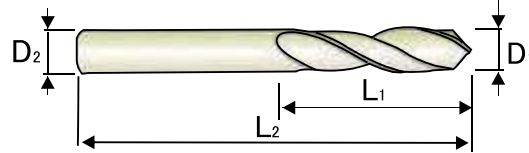
KARBÜR MATKAPLAR CARBIDE DRILLS

► **Kullanım Yerleri** : Çelik, dökme çelik, dökme demir, kır döküm, dövülebilir dökme demir, demir dışı ağır ve hafif metaller, sert plastik.
: İsteğe göre kaplama seçeneği

► **Application** : Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.
: Coating is available on request



3 mm altında 3 mm ve üzeri



$D_1=D_2$

Ölçü : mm

KOD	Matkap Çapı D1	Kesme Kenarı Boyu L1	Tam Boy L2
PMA-7010	1,0	6	26
PMA-7011	1,1	7	28
PMA-7012	1,2	8	30
PMA-7013	1,3	9	30
PMA-7014	1,4	9	32
PMA-7015	1,5	10	32
PMA-7016	1,6	10	34
PMA-7017	1,7	10	34
PMA-7018	1,8	11	36
PMA-7019	1,9	11	36
PMA-7020	2,0	12	38
PMA-7021	2,1	12	38
PMA-7022	2,2	13	40
PMA-7023	2,3	13	40
PMA-7024	2,4	14	43
PMA-7025	2,5	14	43
PMA-7026	2,6	14	43
PMA-7027	2,7	16	46
PMA-7028	2,8	16	46
PMA-7029	2,9	16	46
PMA-7030	3,0	16	46
PMA-7031	3,1	18	49
PMA-7032	3,2	18	49
PMA-7033	3,3	18	49
PMA-7034	3,4	20	52

KOD	Matkap Çapı D1	Kesme Kenarı Boyu L1	Tam Boy L2
PMA-7035	3,5	20	52
PMA-7036	3,6	20	52
PMA-7037	3,7	20	52
PMA-7038	3,8	20	52
PMA-7039	3,9	22	55
PMA-7040	4,0	22	55
PMA-7041	4,1	22	55
PMA-7042	4,2	22	55
PMA-7043	4,3	24	58
PMA-7044	4,4	24	58
PMA-7045	4,5	24	58
PMA-7046	4,6	24	58
PMA-7047	4,7	24	58
PMA-7048	4,8	26	62
PMA-7049	4,9	26	62
PMA-7050	5,0	26	62
PMA-7051	5,1	26	62
PMA-7052	5,2	26	62
PMA-7053	5,3	26	62
PMA-7054	5,4	28	66
PMA-7055	5,5	28	66
PMA-7056	5,6	28	66
PMA-7057	5,7	28	66
PMA-7058	5,8	28	66
PMA-7059	5,9	28	66

© :Mükemmel ○ :İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze	CFRP
~HB225	HB225~325	HRc30~45	HRc45~55	HRc55~								
◎	◎				○	○	○	○	○			

MATKAPLAR DRILLS



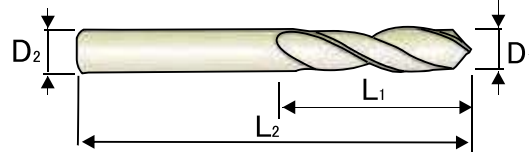
KARBÜR MATKAPLAR CARBIDE DRILLS

► **Kullanım Yerleri** : Çelik, dökme çelik, dökme demir,
kır döküm, dövülebilir dökme demir,
demir dışı ağır ve hafif metaller, sert plastik.
: İsteğe göre kaplama seçeneği

► **Application** : Drilling steels in general, cast steels, cast iron, chilled
cast iron, malleable cast iron, non-ferrous heavy
metals, non-ferrous light metals, abrasive plastics.
: Coating is available on request



3 mm altında 3 mm ve üzeri



D₁=D₂

Ölçü : mm

KOD	Matkap Çapı D ₁	Kesme Kenan Boyu L ₁	Tam Boy L ₂
PMA-7060	6,0	28	66
PMA-7061	6,1	31	70
PMA-7062	6,2	31	70
PMA-7063	6,3	31	70
PMA-7064	6,4	31	70
PMA-7065	6,5	31	70
PMA-7066	6,6	31	70
PMA-7067	6,7	31	70
PMA-7068	6,8	34	74
PMA-7069	6,8	34	74
PMA-7070	6,0	34	74
PMA-7071	7,1	34	74
PMA-7072	7,2	34	74
PMA-7073	7,3	34	74
PMA-7074	7,4	34	74
PMA-7075	7,5	34	74
PMA-7076	7,6	37	78
PMA-7077	7,7	37	78
PMA-7078	7,8	37	78
PMA-7079	7,8	37	78
PMA-7080	8,0	37	79
PMA-7081	8,1	37	79
PMA-7082	8,2	37	78
PMA-7083	8,3	37	78

KOD	Matkap Çapı D ₁	Kesme Kenan Boyu L ₁	Tam Boy L ₂
PMA-7084	8,4	37	79
PMA-7085	8,5	37	79
PMA-7086	8,6	40	84
PMA-7087	8,7	40	84
PMA-7088	8,8	40	84
PMA-7089	8,9	40	84
PMA-7090	9,0	40	84
PMA-7091	9,1	40	84
PMA-7092	9,2	40	84
PMA-7093	9,3	40	84
PMA-7094	9,4	40	84
PMA-7095	9,5	40	84
PMA-7096	9,6	43	89
PMA-7097	9,7	43	89
PMA-7098	9,8	43	89
PMA-7099	9,9	43	89
PMA-7100	10,0	43	89
PMA-7102	10,2	43	89
PMA-7105	10,5	43	89
PMA-7110	11	47	95
PMA-7115	11,5	47	95
PMA-7120	12	51	102
PMA-7130	13	51	102

© :Mükemmel ○ :İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze	CFRP
~HB225	HB225~325	HRc30~45	HRc45~55	HRc55~								
©	©				○	○	○	○	○			

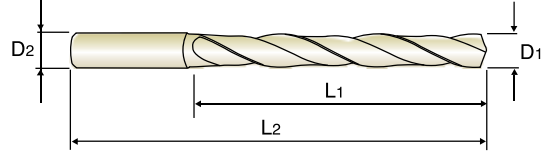
MATKAPLAR DRILLS



KAPLAMALI KARBÜR MATKAPLAR COATED CARBIDE DRILLS

► **Kullanım Yerleri** : Çelik, dökme çelik, dökme demir, kır döküm, dövülebilir dökme demir, demir dışı ağır ve hafif metaller, sert plastik.

► **Application** : Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.



D₁=D₂

Ölçü : mm

KOD	Matkap Çapı D ₁	Kesme Kenan Boyu L ₁	Tam Boy L ₂
PMA-7010C	1,0	6	26
PMA-7011C	1,1	7	28
PMA-7012C	1,2	8	30
PMA-7013C	1,3	9	30
PMA-7014C	1,4	9	32
PMA-7015C	1,5	10	32
PMA-7016C	1,6	10	34
PMA-7017C	1,7	10	34
PMA-7018C	1,8	11	36
PMA-7019C	1,9	11	36
PMA-7020C	2,0	12	38
PMA-7021C	2,1	12	38
PMA-7022C	2,2	13	40
PMA-7023C	2,3	13	40
PMA-7024C	2,4	14	43
PMA-7025C	2,5	14	43
PMA-7026C	2,6	14	43
PMA-7027C	2,7	16	46
PMA-7028C	2,8	16	46
PMA-7029C	2,9	16	46
PMA-7030C	3,0	16	46
PMA-7031C	3,1	18	49
PMA-7032C	3,2	18	49
PMA-7033C	3,3	18	49
PMA-7034C	3,4	20	52

KOD	Matkap Çapı D ₁	Kesme Kenan Boyu L ₁	Tam Boy L ₂
PMA-7035C	3,5	20	52
PMA-7036C	3,6	20	52
PMA-7037C	3,7	20	52
PMA-7038C	3,8	20	52
PMA-7039C	3,9	22	55
PMA-7040C	4,0	22	55
PMA-7041C	4,1	22	55
PMA-7042C	4,2	22	55
PMA-7043C	4,3	24	58
PMA-7044C	4,4	24	58
PMA-7045C	4,5	24	58
PMA-7046C	4,6	24	58
PMA-7047C	4,7	24	58
PMA-7048C	4,8	26	62
PMA-7049C	4,9	26	62
PMA-7050C	5,0	26	62
PMA-7051C	5,1	26	62
PMA-7052C	5,2	26	62
PMA-7053C	5,3	26	62
PMA-7054C	5,4	28	66
PMA-7055C	5,5	28	66
PMA-7056C	5,6	28	66
PMA-7057C	5,7	28	66
PMA-7058C	5,8	28	66
PMA-7059C	5,9	28	66

© :Mükemmel ○ :İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze	CFRP
~HB225	HB225~325	HRc30~45	HRc45~55	HRc55~								
©	©				○	○	○	○	○			

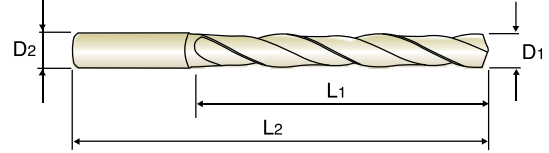
MATKAPLAR DRILLS



KAPLAMALI KARBÜR MATKAPLAR COATED CARBIDE DRILLS

► **Kullanım Yerleri** : Çelik, dökme çelik, dökme demir,
kır döküm, dövülebilir dökme demir,
demir dışı ağır ve hafif metaller, sert plastik.

► **Application** : Drilling steels in general, cast steels, cast iron, chilled
cast iron, malleable cast iron, non-ferrous heavy
metals, non-ferrous light metals, abrasive plastics.



D₁=D₂

Ölçü : mm

KOD	Matkap Çapı D ₁	Kesme Kenan Boy L ₁	Tam Boy L ₂
PMA-7060C	6,0	28	66
PMA-7061C	6,1	31	70
PMA-7062C	6,2	31	70
PMA-7063C	6,3	31	70
PMA-7064C	6,4	31	70
PMA-7065C	6,5	31	70
PMA-7066C	6,6	31	70
PMA-7067C	6,7	31	70
PMA-7068C	6,8	34	74
PMA-7069C	6,8	34	74
PMA-7070C	6,0	34	74
PMA-7071C	7,1	34	74
PMA-7072C	7,2	34	74
PMA-7073C	7,3	34	74
PMA-7074C	7,4	34	74
PMA-7075C	7,5	34	74
PMA-7076C	7,6	37	78
PMA-7077C	7,7	37	78
PMA-7078C	7,8	37	78
PMA-7079C	7,8	37	78
PMA-7080C	8,0	37	79
PMA-7081C	8,1	37	79
PMA-7082C	8,2	37	78
PMA-7083C	8,3	37	78

KOD	Matkap Çapı D ₁	Kesme Kenan Boy L ₁	Tam Boy L ₂
PMA-7084C	8,4	37	79
PMA-7085C	8,5	37	79
PMA-7086C	8,6	40	84
PMA-7087C	8,7	40	84
PMA-7088C	8,8	40	84
PMA-7089C	8,9	40	84
PMA-7090C	9,0	40	84
PMA-7091C	9,1	40	84
PMA-7092C	9,2	40	84
PMA-7093C	9,3	40	84
PMA-7094C	9,4	40	84
PMA-7095C	9,5	40	84
PMA-7096C	9,6	43	89
PMA-7097C	9,7	43	89
PMA-7098C	9,8	43	89
PMA-7099C	9,9	43	89
PMA-7100C	10,0	43	89
PMA-7102C	10,2	43	89
PMA-7105C	10,5	43	89
PMA-7110C	11	47	95
PMA-7115C	11,5	47	95
PMA-7120C	12	51	102
PMA-7130C	13	51	102

© :Mükemmel ○ :İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze	CFRP
~HB225	HB225~325	HRc30~45	HRc45~55	HRc55~								
©	©				○	○	○	○	○			

MATKAPLAR DRILLS



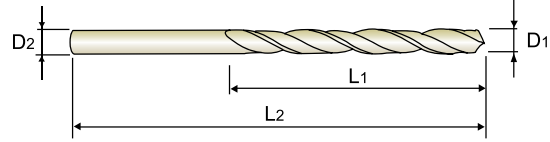
KARBÜR MATKAPLAR CARBIDE DRILLS

► **Kullanım Yerleri** : Çelik, dökme çelik, dökme demir,
kır döküm, dövülebilir dökme demir,
demir dışı ağır ve hafif metaller, sert plastik.
: İsteğe göre kaplama seçeneği

► **Application** : Drilling steels in general, cast steels, cast iron, chilled
cast iron, malleable cast iron, non-ferrous heavy
metals, non-ferrous light metals, abrasive plastics.
: Coating is available on request



3 mm altında 3 mm ve üzeri



D₁=D₂

Ölçü : mm

KOD	Matkap Çapı D ₁	Kesme Kenan Boyu L ₁	Tam Boy L ₂
PMA-6010	1.0	12	34
PMA-6011	1.1	14	36
PMA-6012	1.2	16	38
PMA-6013	1.3	16	38
PMA-6014	1.4	18	40
PMA-6015	1.5	18	40
PMA-6016	1.6	20	43
PMA-6017	1.7	20	43
PMA-6018	1.8	22	46
PMA-6018	1.8	22	46
PMA-6020	2.0	24	49
PMA-6021	2.1	24	49
PMA-6022	2.2	27	53
PMA-6023	2.3	27	53
PMA-6024	2.4	30	57
PMA-6025	2.5	30	57
PMA-6026	2.6	30	57
PMA-6027	2.7	33	61
PMA-6028	2.8	33	61
PMA-6028	2.8	33	61
PMA-6030	3.0	33	61
PMA-6031	3.1	36	65

KOD	Matkap Çapı D ₁	Kesme Kenan Boyu L ₁	Tam Boy L ₂
PMA-6032	3.2	36	65
PMA-6033	3.3	36	65
PMA-6034	3.4	39	70
PMA-6035	3.5	39	70
PMA-6036	3.6	39	70
PMA-6037	3.7	39	70
PMA-6038	3.8	43	75
PMA-6038	3.9	43	75
PMA-6040	4.0	43	75
PMA-6041	4.1	43	75
PMA-6042	4.2	43	75
PMA-6043	4.3	47	80
PMA-6044	4.4	47	80
PMA-6045	4.5	47	80
PMA-6046	4.6	47	80
PMA-6047	4.7	47	80
PMA-6048	4.8	52	86
PMA-6048	4.9	52	86
PMA-6050	5.0	52	86
PMA-6051	5.1	52	86
PMA-6052	5.2	52	86
PMA-6053	5.3	52	86

© :Mükemmel ○ :İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze	CFRP
~HB225	HB225~325	HRc30~45	HRc45~55	HRc55~								
©	©				○	○	○	○	○			

MATKAPLAR DRILLS



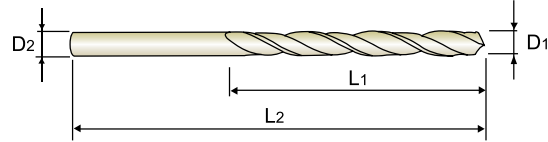
KARBÜR MATKAPLAR CARBIDE DRILLS

► **Kullanım Yerleri** : Çelik, dökme çelik, dökme demir, kır döküm, dövülebilir dökme demir, demir dışı ağır ve hafif metaller, sert plastik.
: İsteğe göre kaplama seçeneği

► **Application** : Drilling steels in general, cast steels, cast iron, chilled cast iron, malleable cast iron, non-ferrous heavy metals, non-ferrous light metals, abrasive plastics.
: Coating is available on request



3 mm altında 3 mm ve üzeri



D₁=D₂

Ölçü : mm

KOD	Matkap Çapı D ₁	Kesme Kenarı Boyu L ₁	Tam Boy L ₂
PMA-6054	5,4	57	93
PMA-6055	5,5	57	93
PMA-6056	5,6	57	93
PMA-6057	5,7	57	93
PMA-6058	5,8	57	93
PMA-6059	5,9	57	93
PMA-6060	6,0	57	93
PMA-6061	6,1	63	101
PMA-6062	6,2	63	101
PMA-6063	6,3	63	101
PMA-6064	6,4	63	101
PMA-6065	6,5	63	101
PMA-6068	6,8	69	109

KOD	Matkap Çapı D ₁	Kesme Kenarı Boyu L ₁	Tam Boy L ₂
PMA-6070	7,0	69	109
PMA-6075	7,5	69	109
PMA-6080	8,0	75	117
PMA-6085	8,5	75	117
PMA-6090	9,0	81	125
PMA-6095	9,5	81	125
PMA-6100	10,0	87	133
PMA-6102	10,2	87	133
PMA-6105	10,5	87	133
PMA-6110	11	94	142
PMA-6115	11,5	94	142
PMA-6120	12	101	151
PMA-6130	13	101	151

© :Mükemmel ○ :İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		Cast Iron	Aluminum	Stainless Steels	Titanium	Mild Steels	Copper	Bronze	CFRP
~HB225	HB225~325	HRc30~45	HRc45~55	HRc55~								
©	©				○	○	○	○	○			



TAVSİYE EDİLEN KESME DEĞERLERİ
RECOMMENDED CUTTING CONDITIONS

PMA - 6000 / 7000 SERİSİ

MALZEME	ALAŞIMSIZ ÇELİKLER		ALAŞIMLI ÇELİKLER		YUMUŞAK GRİ DÖKME DEMİR		SERT GRİ DÖKME DEMİR	
SERTLİK	< 700 N/mm ²		< 1000 N/mm ²		< HB240, GG25		< HB300, GG40	
DELME HIZI	65 ~ 75 m/min		45 ~ 55 m/min		80 ~ 100 m/min		50 ~ 70 m/min	
ÇAP	N	S	N	S	N	S	N	S
1.0	23000	0.03	17200	0.03	32000	0.04	23000	0.04
2.0	11500	0.04	8600	0.04	16000	0.05	11500	0.05
3.0	7800	0.05	5750	0.05	10500	0.06	7600	0.06
4.0	5800	0.06	4300	0.06	7800	0.07	5700	0.07
5.0	4700	0.07	3450	0.07	6200	0.08	4550	0.08
6.0	3900	0.08	2850	0.08	5200	0.09	3800	0.09
7.0	3350	0.09	2450	0.09	4500	0.10	3250	0.10
8.0	2900	0.10	2150	0.10	3900	0.12	2850	0.12
9.0	2600	0.11	1900	0.11	3450	0.14	2550	0.14
10.0	2350	0.12	1700	0.12	3100	0.16	2300	0.16
11.0	2150	0.13	1600	0.13	2850	0.18	2100	0.18
12.0	1950	0.14	1450	0.14	2600	0.20	1900	0.20
13.0	1800	0.16	1350	0.16	2400	0.20	1750	0.20

MALZEME	PASLANMAZ ÇELİK		AL-Sİ ALAŞIMLARI, Si<10%		AL-Sİ ALAŞIMLARI, Si>10%		Tİ, Nİ ALAŞIMLI ÇELİKLER	
SERTLİK	-		-		-		-	
DELME HIZI	30 ~ 40 m/min		150 ~ 170 m/min		110 ~ 130 m/min		33 ~ 38 m/min	
ÇAP	N	S	N	S	N	S	N	S
1.0	12000	0.04	54000	0.05	42000	0.05	11800	0.02
2.0	6000	0.03	27000	0.06	21000	0.06	5900	0.03
3.0	4000	0.04	18000	0.07	14000	0.07	3900	0.04
4.0	3000	0.05	13000	0.08	10500	0.08	2950	0.05
5.0	2400	0.06	10500	0.09	8500	0.09	2350	0.06
6.0	2000	0.07	8800	0.11	7100	0.11	1950	0.07
7.0	1700	0.08	7600	0.13	6100	0.13	1700	0.08
8.0	1500	0.09	6600	0.15	5350	0.15	1450	0.09
9.0	1350	0.10	5900	0.17	4750	0.17	1300	0.10
10.0	1200	0.11	5300	0.19	4250	0.19	1200	0.11
11.0	1100	0.12	4850	0.21	3900	0.21	1050	0.12
12.0	1000	0.13	4450	0.23	3550	0.23	980	0.13
13.0	950	0.13	4100	0.25	3300	0.25	905	0.13

Kesme değerleri kaplamalı ürünlerde %20 oranında arttırılabilir.

N= Devir
S= Devir başına ilerleme (mm/devir)

KILAVUZLAR TAPS



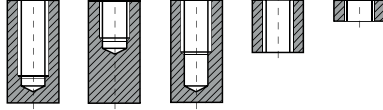
SAPPHIRE
CUTTING TOOLS

KARBÜR DÜZ KILAVUZ CARBIDE TAP STRAIGHT

► Çelik ve dökme demirin işlenmesi için uygundur.

► Suitable for tapping cast iron or similar work materials.

Delik Tipi



DIN 371

DIN 376

HM

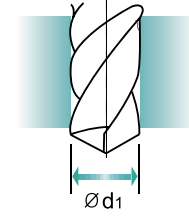
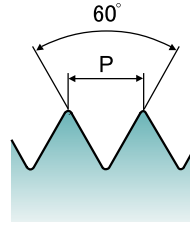
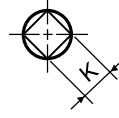
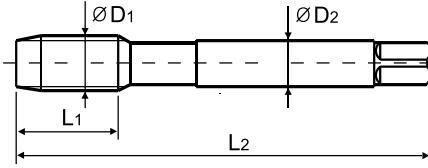
DIN
371/376

6HX



Parlak

Makine Kılavuzu
Machine taps

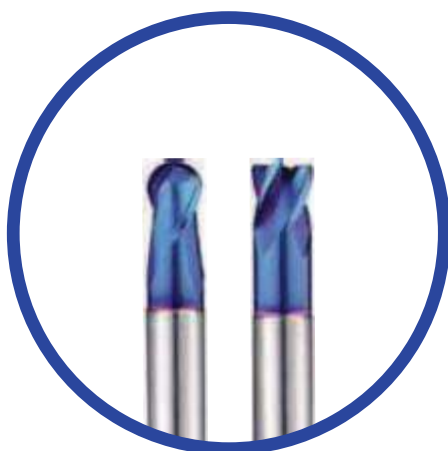


Ölçü : mm

ÖLÇÜ	Adım	KOD	Diş Boyu	Tam Boy	Şaft Çapı	Dört Köşe Ölçüsü	Kılavuz Matkap Çapı
D ₁	P		L ₁	L ₂	D ₂	K	d ₁
M3	× 0.5	PKI-5M3	11	56	3.5	2.7	2.5
M4	× 0.7	PKI-5M4	13	63	4.5	3.4	3.3
M5	× 0.8	PKI-5M5	15	70	6	4.9	4.2
M6	× 1	PKI-5M6	17	80	6	4.9	5
M8	× 1.25	PKI-5M8	20	90	8	6.2	6.8
M10	× 1.5	PKI-5M10	22	100	10	8	8.5
M12	× 1.75	PKI-5M12	24	110	9	7	10.2

© :Mükemmel ○ :İyi

Steel < 400	Steel < 700	Steel < 850	St. Alloy < 850	St. Alloy ≤ 1200	St. Alloy > 1200	INOX Free < 850	INOX Aust. < 850	INOX < 1000	GG Cast < 500	GG Cast < 1000	GGG Cast < 700	GGG Cast < 1000	Ti < 700	Ti Alloy < 900
									○	○				
Ti Alloy ≤ 1300	Ni < 500	Ni Alloy < 900	Ni Alloy ≤ 1400	Cu < 350	Cu Alloy Short	Cu Alloy Long	Cu-Al-Fe < 1500	Al / Mg < 350	Al Wrought	Al Si < 10%	Al Si > 10%	Plastic Thermoset	Plastic Thermoset	Plastic FRP
					○						○			○



PARMAK FREZELER END MILLS

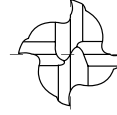
PARMAK FREZELER END MILLS



4 AĞIZLI EXTRA UZUN KAPLAMALI KARBÜR PARMAC FREZE 4 FLUTE EXTRA LONG TYPE CARBIDE END MILL

- Yüksek sıcaklıklarda kuru işlemler için uygundur.
- Mükemmel, yüksek performanslı parmak frezedir.
- 4 ağızlı parmak freze daha iyi yüzey kalitesi verir.

- Suitable for dry milling applications at high temperatures.
- Excellent high-performance end mills.
- 4 flute allows for better work piece finishes.



Ölçü : mm

KOD	Freze Çapı	Şaft Çapı	Kesme Kenarı Boyu	Tam Boy
PPF-14030-EX	3.0	3	20	60
PPF-14040-EX	4.0	4	20	60
PPF-14050-EX	5.0	5	25	75
PPF-14060-EX	6.0	6	30	75
PPF-14080-EX	8.0	8	30	75
PPF-14100-EX	10.0	10	40	100
PPF-14120-EX	12.0	12	45	100
PPF-14140-EX	14.0	14	45	100
PPF-14160-EX	16.0	16	45	100
PPF-14200-EX	20.0	20	45	100

Freze Çapı Tolerans(mm)	Şaft Çapı Tolerans
0~-0.03	h6

◎ :Mükemmel ○ :İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70									
◎	◎	◎				○		○	○	○	○	○		

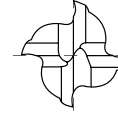
PARMAK FREZELER END MILLS



4 AĞIZLI KISA KAPLAMALI KARBÜR PARMAL FREZE 4 FLUTE SHORT LENGTH CARBIDE END MILL

- Yüksek sıcaklıklarda kuru işlemler için uygundur.
- Mükemmel, yüksek performanslı parmak frezedir.
- 4 ağızlı parmak freze daha iyi yüzey kalitesi verir.

- Suitable for dry milling applications at high temperatures.
- Excellent high-performance end mill.
- 4 flute allows for better work piece finishes.



Ölçü : mm

KOD	Freze Çapı	Şaft Çapı	Kesme Kenarı Boyu	Tam Boy
PPF-14010	1.0	3	3	39
PPF-14015	1.5	3	5	39
PPF-14020	2.0	3	7	39
PPF-14025	2.5	3	7	39
PPF-14030	3.0	3	10	39
PPF-14040	4.0	4	14	51
PPF-14050	5.0	5	16	51
PPF-14060	6.0	6	19	64
PPF-14070	7.0	7	16	60
PPF-14080	8.0	8	21	64
PPF-14090	9.0	9	19	67
PPF-14100	10.0	10	22	70
PPF-14110	11.0	11	26	83
PPF-14120	12.0	12	25	76
PPF-14130	13.0	13	26	83
PPF-14140	14.0	14	26	83
PPF-14160	16.0	16	32	89
PPF-14200	20.0	20	38	102

Freze Çapı Tolerans(mm)	Şaft Çapı Tolerans
0~-0.03	h6

© :Mükemmel ○ :İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70									
◎	◎	◎				○		○	○	○	○	○		

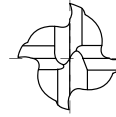
PARMAK FREZELER END MILLS



4 AĞIZLI EXTRA UZUN KAPLAMALI KARBÜR PARMAC FREZE 4 FLUTE EXTRA LONG TYPE CARBIDE END MILL

- Yüksek sıcaklıklarda kuru işlemler için uygundur.
- Mükemmel, yüksek performanslı parmak frezedir.
- 4 ağızlı parmak freze daha iyi yüzey kalitesi verir.

- Suitable for dry milling applications at high temperatures.
- Excellent high-performance end mills.
- 4 flute allows for better work piece finishes.



Ölçü : mm

KOD	Freze Çapı	Şaft Çapı	Kesme Kenarı Boyu	Tam Boy
PPF-14030-EX	3.0	3	20	60
PPF-14040-EX	4.0	4	20	60
PPF-14050-EX	5.0	5	25	75
PPF-14060-EX	6.0	6	30	75
PPF-14080-EX	8.0	8	30	75
PPF-14100-EX	10.0	10	40	100
PPF-14120-EX	12.0	12	45	100
PPF-14140-EX	14.0	14	45	100
PPF-14160-EX	16.0	16	45	100
PPF-14200-EX	20.0	20	45	100

Freze Çapı Tolerans(mm)	Şaft Çapı Tolerans
0~-0.03	h6

© : Mükemmel ○ : İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70								
©	©	©				○		○	○	○	○		

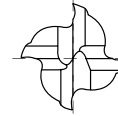
PARMAK FREZELER END MILLS



4 AĞIZLI KISA KAPLAMALI KÖŞE RADÜSLÜ KARBÜR PARMAC FREZE 4 FLUTE CORNER RADIUS CARBIDE END MILL

- Yüksek sıcaklıklarda kuru işlemler için uygundur.
- Mükemmel, yüksek performanslı parmak frezedir.
- 4 ağızlı parmak freze daha iyi yüzey kalitesi verir.

- Suitable for dry milling applications at high temperatures.
- Excellent high-performance end mills.
- 4 flute allows for better work piece finishes.



Ölçü : mm

KOD	Corner Radius R	Freze Çapı	Şaft Çapı	Kesme Kenarı Boyu	Tam Boy
PPF-14020-02R	R0.2	2,0	4	4	50
PPF-14020-03R	R0.3	2,0	4	4	50
PPF-14020-05R	R0.5	2,0	4	4	50
PPF-14025-02R	R0.2	2,5	4	5	50
PPF-14030-02R	R0.2	3,0	4	6	50
PPF-14030-03R	R0.3	3,0	4	6	50
PPF-14030-05R	R0.5	3,0	4	6	50
PPF-14030-1R	R1.0	4,0	4	8	50
PPF-14040-02R	R0.2	4,0	4	8	50
PPF-14040-03R	R0.3	4,0	4	8	50
PPF-14040-05R	R0.5	4,0	4	8	50
PPF-14040-1R	R1.0	5,0	6	10	50
PPF-14050-02R	R0.2	5,0	6	10	50
PPF-14050-03R	R0.3	5,0	6	10	50
PPF-14050-05R	R0.5	5,0	6	10	50
PPF-14050-1R	R1.0	6,0	6	12	50
PPF-14060-02R	R0.2	6,0	6	12	50
PPF-14060-03R	R0.3	6,0	6	12	50
PPF-14060-05R	R0.5	6,0	6	12	50
PPF-14060-1R	R1.0	8,0	8	16	60
PPF-14080-05R	R0.5	8,0	8	16	60
PPF-14080-1R	R1.0	8,0	10	20	75
PPF-14100-05R	R0.5	10,0	10	20	75
PPF-14100-1R	R1.0	10,0	10	20	75
PPF-14120-05R	R0.5	12,0	12	24	75
PPF-14120-1R	R1.0	12,0	12	24	75

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Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70									
©	©	©				○		○	○	○	○	○		

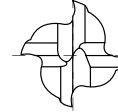
PARMAK FREZELER END MILLS



4 AĞIZLI UZUN KAPLAMALI KÖŞE RADÜSLÜ KARBÜR PARMAR FREZE 4 FLUTE LONG TYPE CORNER RADIUS CARBIDE END MILL

- Yüksek sıcaklıklarda kuru işlemler için uygundur.
- Mükemmel, yüksek performanslı parmak frezedir.
- 4 ağızlı parmak freze daha iyi yüzey kalitesi verir.

- Suitable for dry milling applications at high temperatures.
- Excellent high-performance end mills.
- 4 flute allows for better work piece finishes.



Ölçü : mm

KOD	Corner Radius R	Freze Çapı	Şaft Çapı	Kesme Kenarı Boyu	Tam Boy
PPF-14030-05RL	R0.5	3.0	4	6	75
PPF-14030-1RL	R1.0	3.0	4	6	75
PPF-14040-05RL	R0.5	4.0	4	8	75
PPF-14040-1RL	R1.0	4.0	4	8	75
PPF-14050-05RL	R0.5	5.0	6	10	75
PPF-14050-1RL	R1.0	5.0	6	10	75
PPF-14060-05RL	R0.5	6.0	6	12	75
PPF-14060-1RL	R1.0	6.0	6	12	75
PPF-14080-05RL	R0.5	8.0	8	16	100
PPF-14080-1RL	R1.0	8.0	8	16	100
PPF-14100-05RL	R0.5	10.0	12	24	100
PPF-14100-1RL	R1.0	10.0	12	24	100
PPF-14120-05RL	R1.5	12.0	12	24	100
PPF-14120-1RL	R2.0	12.0	12	24	100

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Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70									
©	©	©				○		○	○	○	○	○		

PARMAK FREZELER END MILLS

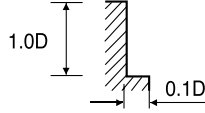


SAPPHIRE
CUTTING TOOLS

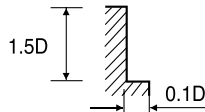
TAVSİYE EDİLEN KESME DEĞERLERİ RECOMMENDED CUTTING CONDITIONS

PPF - 14 SERİSİ

MALZEME	ALAŞIMSIZ ÇELİKLER ALAŞIMLI ÇELİKLER TAKIM ÇELİKLERİ				ALAŞIMLI ÇELİKLER ISI DAYANIMLI ÇELİKLER				PASLANMAZ ÇELİKLER			
SERTLİK	~ HRc 30				HRc 30 ~ HRc 45							
GÜÇ	~1000N/mm ²				1000~1500N/mm ²							
ÇAP	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz
1.0	17600	150	55	0.002	10250	85	30	0.002	8650	75	25	0.002
1.5	11800	215	55	0.005	7050	115	35	0.004	7050	120	35	0.004
2.0	9850	240	60	0.006	6450	145	40	0.006	5350	120	35	0.006
3.0	7600	270	70	0.009	4750	170	45	0.009	3950	145	35	0.009
4.0	6450	485	80	0.019	3950	300	50	0.019	3300	240	40	0.018
5.0	5350	510	85	0.024	3200	305	50	0.024	2700	255	40	0.024
6.0	4750	560	90	0.029	2850	350	55	0.031	2400	280	45	0.029
8.0	3550	605	90	0.043	2150	325	55	0.038	1800	300	45	0.042
10.0	2750	520	85	0.047	1700	255	55	0.038	1450	255	45	0.044
12.0	2350	440	90	0.047	1450	215	55	0.037	1150	205	45	0.045
14.0	2100	395	90	0.047	1300	195	55	0.038	1050	190	45	0.045
16.0	1850	350	95	0.047	1150	170	60	0.037	950	170	50	0.045
20.0	1450	270	90	0.047	900	135	55	0.038	700	130	45	0.046



MALZEME	DÖKME DEMİR				ALUMİNYUMLU ALAŞIMLAR				BAKIR, PİRİNÇ DEMİR DİŞİ METALLER			
SERTLİK					HRc 30 ~ HRc 45							
GÜÇ					1000~1500N/mm ²							
ÇAP	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz
1.0	18700	620	60	0.008	44000	1050	140	0.006	24700	605	80	0.006
1.5	12100	620	55	0.013	27500	1160	130	0.011	20300	910	95	0.011
2.0	9350	640	60	0.017	22000	1320	140	0.015	16500	1035	105	0.016
3.0	6050	640	55	0.026	15400	1320	145	0.021	11000	1035	105	0.024
4.0	4600	640	60	0.035	11000	1320	140	0.030	8800	1035	110	0.029
5.0	3650	640	55	0.044	9150	1320	145	0.036	6800	1035	105	0.038
6.0	2950	770	55	0.065	7600	1430	145	0.047	5700	1100	105	0.048
8.0	2200	815	55	0.093	5700	1430	145	0.063	4400	1100	110	0.063
10.0	1850	860	60	0.116	4600	1430	145	0.078	3400	1100	105	0.081
12.0	1450	900	55	0.155	3750	1430	140	0.095	2850	1100	105	0.096
14.0	1300	945	55	0.182	3300	1430	145	0.108	2400	1100	105	0.115
16.0	1100	970	55	0.220	2850	1430	145	0.125	2200	1100	110	0.125
20.0	900	1035	55	0.288	2200	1430	140	0.163	1700	1100	105	0.162



* İlerleme L & EX kodlu uzun frezelerde %50 oranında azaltılmalıdır.

DEVİR = dev/dak
İLERLEME = mm/dak
Vc = m/dak
fz = mm/ağız

PARMAK FREZELER END MILLS



SAPPHIRE
CUTTING TOOLS

2 AĞIZLI KÜRESEL KARBÜR PARMAC FREZE 2 FLUTE BALL NOSE CARBIDE END MILL

- Yüksek sıcaklıklarda kuru işlemler için uygundur.
- Mükemmel, yüksek performanslı parmak frezedir.
- Profil ve kontur işleme için dizayn edilmiştir.

- Suitable for dry milling applications at high temperatures.
- Excellent high-performance end mills.
- Designed for milling of radius bottom slots, fillets and special contours



Ölçü : mm

KOD	Corner Radius R (±0.02)	Freze Çapı	Şaft Çapı	Kesme Kenarı Boyu	Tam Boy
PPF-22010	R 0.5	1.0	3	3	39
PPF-22015	R 0.75	1.5	3	5	39
PPF-22020	R 1.0	2.0	3	7	39
PPF-22025	R 1.25	2.5	3	8	39
PPF-22030	R 1.5	3.0	3	9	39
PPF-22040	R 2.0	4.0	4	14	51
PPF-22050	R 2.5	5.0	5	16	51
PPF-22060	R 3.0	6.0	6	19	64
PPF-22080	R 4.0	8.0	8	21	64
PPF-22100	R 5.0	10.0	10	22	70
PPF-22110	R 5.5	11.0	11	25	70
PPF-22120	R 6.0	12.0	12	25	76
PPF-22160	R 8.0	16.0	16	32	89
PPF-22200	R 10.0	20.0	20	38	102

Freze Çapı Tolerans(mm)	Şaft Çapı Tolerans
0~-0.03	h6

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Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70									
©	©	©	○			○		○	○	○	○	○		

PARMAK FREZELER END MILLS



2 AĞIZLI UZUN KÜRESEL KARBÜR PARMAC FREZE 2 FLUTE TYPE BALL NOSE CARBIDE END MILL

- Yüksek sıcaklıklarda kuru işlemler için uygundur.
- Mükemmel, yüksek performanslı parmak frezedir.
- Profil ve kontor işleme için dizayn edilmiştir.

- Suitable for dry milling applications at high temperatures.
- Excellent high-performance end mills.
- Designed for milling of radius bottom slots, fillets and special contours



Ölçü : mm

KOD	Corner Radius R (±0.02)	Freze Çapı	Şaft Çapı	Kesme Kenarı Boyu	Tam Boy
PPF-22030-L	R 1.5	3.0	3	5	75
PPF-22040-L	R 2.0	4.0	4	8	75
PPF-22050-L	R 2.5	5.0	5	9	75
PPF-22060-L	R 3.0	6.0	6	10	100
PPF-22080-L	R 4.0	8.0	8	12	100
PPF-22100-L	R 5.0	10.0	10	14	100
PPF-22120-L	R 6.0	12.0	12	16	100
PPF-22140-L	R 7.0	14.0	14	18	100
PPF-22160-L	R 8.0	16.0	16	22	150

Freze Çapı Tolerans(mm)	Şaft Çapı Tolerans
0~-0.03	h6

◎ : Mükemmel ○ : İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRc30~40	HRc40~45 HRc45~55	HRc55~70									
◎	◎	◎	○			○		○	○	○	○		

PARMAK FREZELER END MILLS



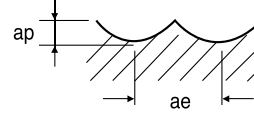
SAPPHIRE
CUTTING TOOLS

TAVSİYE EDİLEN KESME DEĞERLERİ RECOMMENDED CUTTING CONDITIONS

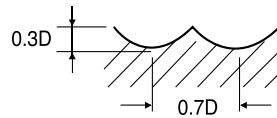
PPF - 22 SERİSİ

MALZEME			ALAŞIMSIZ ÇELİKLER ALAŞIMLI ÇELİKLER TAKIM ÇELİKLERİ				ALAŞIMLI ÇELİKLER ISI DAYANIMLI ÇELİKLER				PASLANMAZ ÇELİKLER			
SERTLİK			~ HRc 30				HRc 30 ~ HRc 45				HRc 45 ~ HRc 50			
GÜÇ			~1000N/mm²				1000~1500N/mm²				1500N/mm²~			
ÇAP			Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz
R1.0	x	2.0	12350	640	80	0.026	9150	415	55	0.023	4000	125	25	0.016
R1.5	x	3.0	11400	575	105	0.025	8550	390	80	0.023	3800	125	35	0.016
R2.0	x	4.0	8950	630	110	0.035	7150	450	90	0.031	3600	150	45	0.021
R2.5	x	5.0	7800	700	125	0.045	6200	490	95	0.040	3100	150	50	0.024
R3.0	x	6.0	7250	870	135	0.060	5900	705	110	0.060	2700	160	50	0.030
R4.0	x	8.0	6100	1090	155	0.089	4900	785	125	0.080	2050	190	50	0.046
R5.0	x	10.0	5450	1330	170	0.122	4350	870	135	0.100	1750	190	55	0.054
R6.0	x	12.0	4990	1500	190	0.150	3950	950	150	0.120	1500	210	55	0.070
R7.0	x	14.0	4530	1495	200	0.165	3600	925	160	0.128	1300	210	55	0.081
R8.0	x	16.0	4085	1470	205	0.180	3200	905	160	0.141	1150	210	60	0.091
R9.0	x	18.0	3800	1425	215	0.188	3000	890	170	0.148	1050	210	60	0.100
R10.0	x	20.0	3550	1425	225	0.201	2800	885	175	0.158	950	210	60	0.111

ap : D1~D6=0.2mm
D8~D20=0.3mm
ae : 0.2D



MALZEME			DÖKME DEMİR				ALUMİNYUMLU ALAŞIMLAR			
SERTLİK										
GÜÇ										
ÇAP			Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz
R1.0	x	2.0	10500	220	65	0.010	30800	395	195	0.006
R1.5	x	3.0	7050	230	65	0.016	20500	395	195	0.010
R2.0	x	4.0	5150	285	65	0.028	15400	395	195	0.013
R2.5	x	5.0	4150	330	65	0.040	12100	470	190	0.019
R3.0	x	6.0	3400	360	65	0.053	10300	470	195	0.023
R4.0	x	8.0	2500	460	65	0.092	7900	540	200	0.034
R5.0	x	10.0	2050	460	65	0.112	6150	540	195	0.044
R6.0	x	12.0	1750	460	65	0.131	5150	630	195	0.061
R7.0	x	14.0	1400	460	60	0.164	4300	630	190	0.073
R8.0	x	16.0	1300	460	65	0.177	3850	540	195	0.070
R9.0	x	18.0	1100	460	60	0.209	3400	540	190	0.079
R10.0	x	20.0	1050	420	65	0.200	2950	540	185	0.092



* İlerleme L & EX kodlu uzun frezelerde %50 oranında azaltılmalıdır.

DEVİR = dev/dak
İLERLEME = mm/dak
Vc = m/dak
fz = mm/ağız

PARMAK FREZELER END MILLS

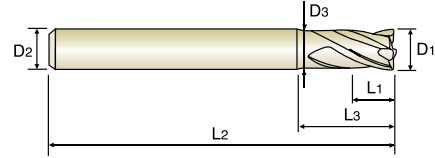
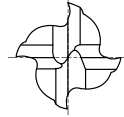


SAPPHIRE
CUTTING TOOLS

4 AĞIZLI KAPLAMALI KARBÜR PARMAR FREZE (50-70 HRC) 4 FLUTE CARBIDE END MILL (50-70 HRC)

- Yüksek sertlikteki malzemelerin işlenmesi için tasarlanmıştır
- Yeni geliştirilmiş ham madde ve kaplama yapısı ile yüksek hızlarda ve kuru kesimde çalışmaya uygundur
- Mükemmel son kesim
- Yüksek hassasiyetli frezeleme operasyonları için uygunluk
- Yüksek aşınma direnci

- Designed to machine high hardened materials
- Suitable for dry cutting, high speed cutting thanks to newly developed raw material and new coating
- Excellent workpiece finish
- Designed for high precision milling operation
- High wear resistance



P.699

Ölçü : mm

KOD	Freze Çapı D1	Şaft Çapı D2	Kesme Kenarı Boyu L1	Arka Boyun Çapı L3	Tam Boy L2	Boyun Çapı D3
PPF-414010	1.0	6	1.5	3	50	0.95
PPF-414020	2.0	6	2	5	50	1.95
PPF-414030	3.0	6	3	8	55	2.85
PPF-414040	4.0	6	4	10	55	3.85
PPF-414050	5.0	6	5	13	55	4.85
PPF-414060	6.0	6	6	15	55	5.85
PPF-414080	8.0	8	8	20	65	7.7
PPF-414100	10.0	10	10	25	75	9.7
PPF-414120	12.0	12	12	28	85	11.7
PPF-414160	16.0	16	16	32	90	15.7

Boy	Freze Çapı Toleransı (mm)	Boyun Çapı Toleransı
Ø6'ya kadar	0~-0.012	h6
Ø6 sonrası	0~-0.015	

◎ :Mükemmel ○ :İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70									
		○	○	◎	◎									

PARMAK FREZELER END MILLS



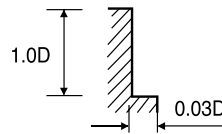
SAPPHIRE
CUTTING TOOLS

TAVSİYE EDİLEN KESME DEĞERLERİ RECOMMENDED CUTTING CONDITIONS

PPF- 414 SERİSİ

MALZEME	ALAŞIMLI ÇELİKLER ISI DAYANIMLI ÇELİKLER				SERTLEŞTİRİLMİŞ ÇELİKLER							
SERTLİK	HRc 30 ~ HRc 40				HRc 40 ~ HRc 50				HRc 50 ~ HRc 55			
ÇAP	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz
1.0	48000	1480	150	0.008	38000	1050	120	0.007	25500	710	80	0.007
2.0	33300	1750	210	0.013	26000	1250	165	0.012	17500	840	110	0.012
3.0	21800	1750	205	0.020	17300	1250	165	0.018	11500	840	110	0.018
4.0	16700	1800	210	0.027	13200	1300	165	0.025	8800	880	110	0.025
5.0	15700	2000	245	0.032	12500	1500	195	0.030	8300	1000	130	0.030
6.0	13100	1950	245	0.037	10350	1400	195	0.034	6900	950	130	0.034
8.0	9880	1880	250	0.048	7800	1350	195	0.043	5200	900	130	0.043
10.0	7800	1750	245	0.056	6150	1260	195	0.051	4100	840	130	0.051
12.0	6650	1750	250	0.066	5250	1260	200	0.060	3500	840	130	0.060
16.0	4900	1500	245	0.077	3900	1100	195	0.071	2600	730	130	0.070
20.0	3900	1300	245	0.083	3100	970	195	0.078	2050	650	130	0.079

MALZEME	SERTLEŞTİRİLMİŞ ÇELİKLER											
SERTLİK	HRc 55 ~ HRc 60				HRc 60 ~ HRc 65				HRc 65 ~ HRc 70			
ÇAP	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz
1.0	20500	430	65	0.005	16000	270	50	0.004	12500	175	40	0.875
2.0	14500	520	90	0.009	11000	320	70	0.007	9500	230	60	0.821
3.0	9500	520	90	0.014	7500	320	70	0.011	6400	230	60	0.821
4.0	7200	540	90	0.019	5600	335	70	0.015	4750	240	60	0.857
5.0	6400	580	100	0.023	5100	370	80	0.018	4450	270	70	0.844
6.0	5300	560	100	0.026	4200	350	80	0.021	3700	260	70	0.813
8.0	4000	520	100	0.033	3200	330	80	0.026	2800	240	70	0.750
10.0	3200	480	100	0.038	2550	310	80	0.030	2200	220	70	0.688
12.0	2650	480	100	0.045	2100	300	80	0.036	1860	220	70	0.688
16.0	2000	420	100	0.053	1600	270	80	0.042	1400	200	70	0.625
20.0	1600	380	100	0.059	1300	250	80	0.048	1100	180	70	0.563



DEVİR = dev/dak
İLERLEME = mm/dak
Vc = m/dak
fz = mm/ağız

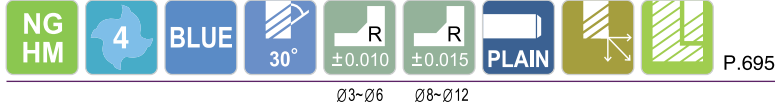
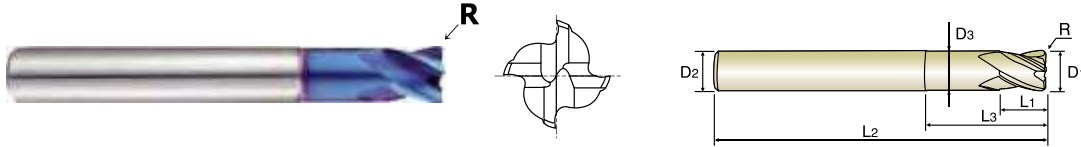
PARMAK FREZELER END MILLS



SAPPHIRE
CUTTING TOOLS

4 AĞIZLI KAPLAMALI KÖŞE RADÜSLÜ KARBÜR PARMAC FREZE (50-70 HRC) 4 FLUTE COATED CORNER RADIUS CARBIDE END MILL (50-70 HRC)

- Yüksek sertlikteki malzemelerin işlenmesi için tasarlanmıştır
- Yeni geliştirilmiş ham madde ve kaplama yapısı ile yüksek hızlarda ve kuru kesimde çalışmaya uygundur
- Mükemmel son kesim
- Daraltılmış boğaz ile derin yerlere inmek mümkündür
- Yüksek hızlı işlemlerde talaş birikimini engellemek için köşe radyüsü
- Yüksek aşınma direnci
- Designed to machine high hardened materials
- Suitable for dry cutting, high speed cutting thanks to newly developed raw material and new coating
- Excellent workpiece finish
- Deep slotting is possible by reduced neck
- Corner radius for preventing the chipping in high speed machining
- High wear resistance



Ø3-Ø6 Ø8-Ø12

Ölçü : mm

KOD	Küresel Freze Çapı R	Freze Çapı D1	Şaft Çapı D2	Keme Kenarı Boy L1	Arka Boyun Çapı L3	Tam Boy L2	Boyun Çapı D3
PPF-414030-05R	R0.5	3.0	6	4	10	55	2.85
PPF-414030-05R-16L	R0.5	3.0	6	4	16	55	2.85
PPF-414030-05R-20L	R0.5	3.0	6	4	20	55	2.85
PPF-414040-05R	R0.5	4.0	6	5	12	55	3.85
PPF-414040-05R-16L	R0.5	4.0	6	5	16	55	3.85
PPF-414040-05R-20L	R0.5	4.0	6	5	20	55	3.85
PPF-414060-05R	R0.5	6.0	6	7	20	60	5.85
PPF-414080-05R	R0.5	8.0	8	9	25	60	7.7
PPF-414080-1R	R1.0	8.0	8	9	25	60	7.7
PPF-414100-05R	R0.5	10.0	10	11	32	70	9.7
PPF-414100-1R	R1.0	10.0	10	11	32	70	9.7
PPF-414120-05R	R0.5	12.0	12	12	38	80	11.7
PPF-414120-1R	R0.5	12.0	12	12	38	80	11.7

Boy	Köşe Radüsü Toleransı (mm)	Freze Çapı Toleransı (mm)	Boyun Çapı Toleransı
Ø6'a kadar	±0.010	0~-0.012	h6
Ø6 sonrası	±0.015	0~-0.015	

© :Mükemmel ○ :İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRc30~40	HRc40~45 HRc45~55	HRc55~70									
		○	○	◎	◎								

PARMAK FREZELER END MILLS

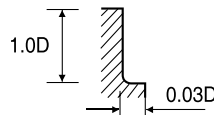


TAVSİYE EDİLEN KESME DEĞERLERİ RECOMMENDED CUTTING CONDITIONS

PPF - 414 (R) SERİSİ

MALZEME	ALAŞIMLI ÇELİKLER				SERTLEŞTİRİLMİŞ ÇELİKLER							
SERTLİK	HRc 30 ~ HRc 40				HRc 40 ~ HRc 50				HRc 50 ~ HRc 55			
ÇAP	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz
1.0	48000	1184	150	0.006	38000	840	120	0.006	25500	568	80	0.006
2.0	33300	1400	210	0.011	26000	1000	165	0.010	17500	672	110	0.010
3.0	21800	1400	205	0.016	17300	1000	165	0.014	11500	672	110	0.015
4.0	16700	1440	210	0.022	13200	1040	165	0.020	8800	704	110	0.020
5.0	15700	1600	245	0.025	12500	1200	195	0.024	8300	800	130	0.024
6.0	13100	1560	245	0.030	10350	1120	195	0.027	6900	760	130	0.028
8.0	9880	1504	250	0.038	7800	1080	195	0.035	5200	720	130	0.035
10.0	7800	1400	245	0.045	6150	1008	195	0.041	4100	672	130	0.041
12.0	6650	1400	250	0.053	5250	1008	200	0.048	3500	672	130	0.048
16.0	4900	1200	245	0.061	3900	880	195	0.056	2600	584	130	0.056
20.0	3900	1040	245	0.067	3100	776	195	0.063	2050	520	130	0.063

MALZEME	ALAŞIMLI ÇELİKLER				SERTLEŞTİRİLMİŞ ÇELİKLER							
SERTLİK	HRc 55 ~ HRc 60				HRc 60 ~ HRc 65				HRc 65 ~ HRc 70			
ÇAP	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz
1.0	20500	344	65	0.004	16000	216	50	0.003	12500	140	40	0.700
2.0	14500	416	90	0.007	11000	256	70	0.006	9500	184	60	0.657
3.0	9500	416	90	0.011	7500	256	70	0.009	6400	184	60	0.657
4.0	7200	432	90	0.015	5600	268	70	0.012	4750	192	60	0.686
5.0	6400	464	100	0.018	5100	296	80	0.015	4450	216	70	0.675
6.0	5300	448	100	0.021	4200	280	80	0.017	3700	208	70	0.650
8.0	4000	416	100	0.026	3200	264	80	0.021	2800	192	70	0.600
10.0	3200	384	100	0.030	2550	248	80	0.024	2200	176	70	0.550
12.0	2650	384	100	0.036	2100	240	80	0.029	1860	176	70	0.550
16.0	2000	336	100	0.042	1600	216	80	0.034	1400	160	70	0.500
20.0	1600	304	100	0.048	1300	200	80	0.038	1100	144	70	0.450



DEVİR = dev/dak
İLERLEME = mm/dak
Vc = m/dak
fz = mm/ağız

PARMAK FREZELER END MILLS

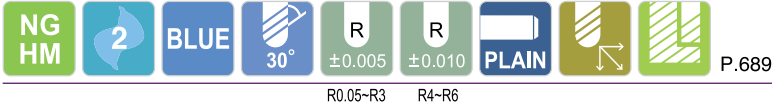
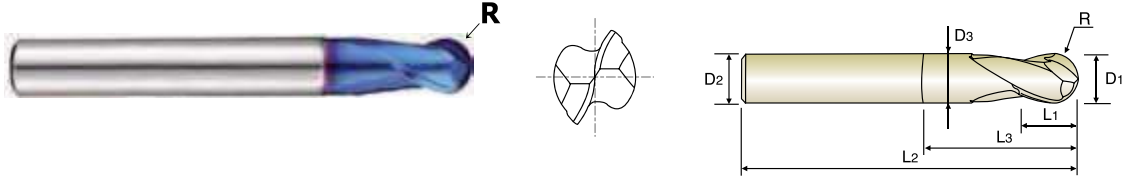


SAPPHIRE
CUTTING TOOLS

2 AĞIZLI KÜRESEL KAPLAMALI KARBÜR PARMAC FREZE (50-70 HRC) 2 FLUTE BALL NOSE CARBIDE END MILL (50-70 HRC)

- Yüksek sertlikteki malzemelerin işlenmesi için tasarlanmıştır
- Yeni geliştirilmiş ham madde ve kaplama yapısı ile yüksek hızlarda ve kuru kesimde çalışmaya uygundur
- Mükemmel son kesim
- Yüksek hassasiyetli frezeleme operasyonları için uygunluk
- Yüksek aşınma direnci

- Designed to machine high hardened materials
- Suitable for dry cutting, high speed cutting thanks to newly developed raw material and new coating
- Excellent workpiece finish
- Designed for high precision milling operation
- High wear resistance



Ölçü : mm

KOD	Küresel Freze Çapı R	Freze Çapı D1	Şaft Çapı D2	Keme Kenarı Boy L1	Arka Boyun Çapı L3	Tam Boy L2	Boyun Çapı D3
PPF-422010	R0.05	1.0	6	1,5	3	50	0.95
PPF-422015	R0.75	1.5	6	2	4	50	1.45
PPF-422020	R1.0	2.0	6	2.5	5	50	1.95
PPF-422025	R1.25	2.5	6	3	7	50	2.4
PPF-422030	R1.5	3.0	6	4	10	60	2.85
PPF-422040	R2.0	4.0	6	5	10	60	3.85
PPF-422050	R2.5	5.0	6	6	12	60	4.85
PPF-422060	R3.0	6.0	6	7	15	60	5.85
PPF-422080	R4.0	8.0	8	9	15	80	7.7
PPF-422100	R5.0	10.0	10	11	25	80	9.7
PPF-422120	R6.0	12.0	12	14	25	80	11.7

Boy	Radüs Toleransı (mm)	Freze Çapı Toleransı (mm)	Boyun Çapı Toleransı
R3'e kadar	±0.005	0~-0.012	h6
R3 sonrası	±0.010	0~-0.015	

◎ :Mükemmel ○ :İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70									
		○	○	◎	◎									

PARMAK FREZELER END MILLS



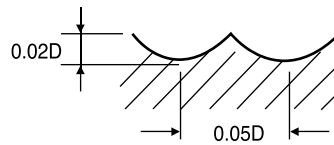
SAPPHIRE
CUTTING TOOLS

TAVSİYE EDİLEN KESME DEĞERLERİ RECOMMENDED CUTTING CONDITIONS

PPF- 422 SERİSİ

MALZEME			ALAŞIMLI ÇELİKLER ISI DAYANIMLI ÇELİKLER				SERTLEŞTİRİLMİŞ ÇELİKLER							
SERTLİK			HRc 30 ~ HRc 40				HRc 40 ~ HRc 50				HRc 50 ~ HRc 55			
ÇAP			Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz
R0.1	x	0.2	50000	1200	30	0.012	50000	1050	30	0.011	45000	960	30	0.011
R0.15	x	0.3	50000	1500	45	0.015	50000	1350	45	0.014	45000	1200	40	0.013
R0.2	x	0.4	50000	1900	65	0.019	50000	1700	65	0.017	45000	1500	55	0.017
R0.25	x	0.5	50000	2400	80	0.024	50000	2100	80	0.021	45000	1900	70	0.021
R0.3	x	0.6	50000	2900	95	0.029	50000	2500	95	0.025	45000	2200	85	0.024
R0.4	x	0.8	50000	3900	125	0.039	50000	3300	125	0.033	45000	3000	115	0.033
R0.5	x	1.0	50000	4800	155	0.048	50000	4200	155	0.042	45000	3800	140	0.042
R0.6	x	1.2	50000	5100	190	0.051	48000	4300	180	0.045	43000	3850	160	0.045
R0.75	x	1.5	50000	5400	235	0.054	48000	4500	225	0.047	43000	4000	205	0.047
R1.0	x	2.0	49700	5700	310	0.057	47800	4800	300	0.050	40000	4000	250	0.050
R1.5	x	3.0	33100	6000	310	0.091	31800	5300	300	0.083	26500	4000	250	0.075
R2.0	x	4.0	24900	6000	315	0.120	23900	5300	300	0.111	20000	4000	250	0.100
R2.5	x	5.0	18600	5800	290	0.156	17800	4900	280	0.138	15000	3750	235	0.125
R3.0	x	6.0	13900	4850	260	0.174	13400	4100	255	0.153	11000	3100	205	0.141
R4.0	x	8.0	11100	4200	280	0.189	10700	3500	270	0.164	9000	2700	225	0.150
R5.0	x	10.0	9300	3700	290	0.199	8900	3100	280	0.174	7500	2400	235	0.160
R6.0	x	12.0	6950	2950	260	0.212	6680	2500	250	0.187	5600	1900	210	0.170
R8.0	x	16.0	5570	2650	280	0.238	5350	2200	270	0.206	4500	1700	225	0.189
R10.0	x	20.0	4450	2350	280	0.264	4300	1950	270	0.227	3600	1500	225	0.208

MALZEME			SERTLEŞTİRİLMİŞ ÇELİKLER											
SERTLİK			HRc 55 ~ HRc 60				HRc 60 ~ HRc 65				HRc 65 ~ HRc 70			
ÇAP			Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz	Devir	İlerleme	Vc	fz
R0.1	x	0.2	40000	770	25	0.010	35000	674	20	0.010	31500	570	20	0.009
R0.15	x	0.3	40000	965	40	0.012	35000	840	35	0.012	31500	700	30	0.011
R0.2	x	0.4	40000	1200	50	0.015	35000	1050	45	0.015	31500	890	40	0.014
R0.25	x	0.5	40000	1500	65	0.019	35000	1300	55	0.019	31500	1100	50	0.017
R0.3	x	0.6	40000	1800	75	0.023	35000	1600	65	0.023	31500	1400	60	0.022
R0.4	x	0.8	40000	2400	100	0.030	35000	2100	90	0.030	31500	1800	80	0.029
R0.5	x	1.0	40000	3000	125	0.038	35000	2600	110	0.037	35000	2300	110	0.033
R0.6	x	1.2	38000	3000	145	0.039	34000	2700	130	0.040	30600	2300	115	0.038
R0.75	x	1.5	37000	3100	175	0.042	33000	2700	155	0.041	29700	2300	140	0.039
R1.0	x	2.0	35000	3150	220	0.045	32000	2800	200	0.044	28500	2300	180	0.040
R1.5	x	3.0	23500	3150	220	0.067	21000	2800	200	0.067	19000	2300	180	0.061
R2.0	x	4.0	17500	3150	220	0.090	16000	2800	200	0.088	14500	2300	180	0.079
R2.5	x	5.0	13500	3050	210	0.113	11500	2550	180	0.111	10500	2100	165	0.100
R3.0	x	6.0	10000	2500	190	0.125	8800	2150	165	0.122	8000	1750	150	0.109
R4.0	x	8.0	8000	2150	200	0.134	7000	1850	175	0.132	6500	1550	165	0.119
R5.0	x	10.0	6600	1900	205	0.144	5800	1650	180	0.142	5300	1380	165	0.130
R6.0	x	12.0	5000	1550	190	0.155	4400	1250	165	0.142	4000	1050	150	0.131
R8.0	x	16.0	4000	1350	200	0.169	3500	1000	175	0.143	3200	850	160	0.133
R10.0	x	20.0	3200	1200	200	0.188	2800	800	175	0.143	2550	660	160	0.129



RPM = rev./min.
FEED = mm/min.
Vc = m/min.
fz = mm/t

PARMAK FREZELER END MILLS

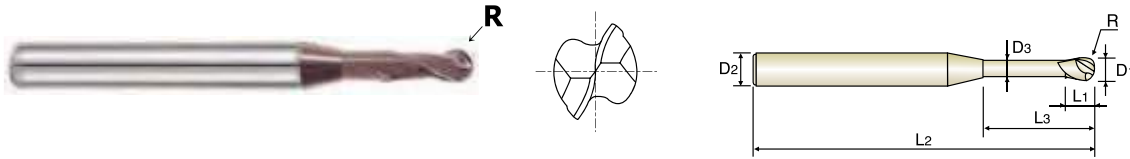


SAPPHIRE
CUTTING TOOLS

2 AĞIZLI KÜRESEL KARBÜR RİB TAKIM 2 FLUTE BALL NOSE RIB TOOL

- Yüksek sıcaklıklarda kuru işlemler için uygundur.
- Mükemmel , yüksek performanslı parmak freze
- Profil ve kontör işleme için dizayn edilmiştir.

- Suitable for dry milling applications at high temperatures.
- Excellent high-performance end mills.
- Designed for milling of radius bottom slots, fillets and special contours.



MG
HM

2

30°

R
±0.02

DIN
6535HA

↗

↘

P.1078

Ölçü : mm

KOD	Küresel Freze	Freze Çapı	Şaft Çapı	Kesme Kenarı	Arka Boyun Çapı	Tam Boy	Boyun Çapı
	R (±0.02)	D1	D2	L1	L3	L2	D3
PPF-32204	R0.2	0.4	4	0.7	2	50	0.37
PPF-32205	R0.25	0.5	4	0.75	2	50	0.45
PPF-32206	R0.3	0.6	4	0.9	2	50	0.55
PPF-32206-4L	R0.3	0.6	4	0.9	4	50	0.55
PPF-32206-6L	R0.3	0.6	4	0.9	6	50	0.55
PPF-32208	R0.4	0.8	4	1.2	4	50	0.75
PPF-32208-8L	R0.4	0.8	4	1.2	8	50	0.75
PPF-32210	R0.5	1.0	4	1.5	6	50	0.95
PPF-32210-10L	R0.5	1.0	4	1.5	10	50	0.95
PPF-32210-12L	R0.5	1.0	4	1.5	12	50	0.95
PPF-32212	R0.6	1.2	4	1.8	8	50	1.15
PPF-32215	R0.75	1.5	4	2.3	6	50	1.45
PPF-32215-12L	R0.75	1.5	4	2.3	12	50	1.45
PPF-32215-20L	R0.75	1.5	4	2.3	20	50	1.45
PPF-32216	R0.8	1.6	4	2.4	8	50	1.55
PPF-32216-16L	R0.8	1.6	4	2.4	16	50	1.55
PPF-32220	R1.0	2.0	4	3	8	50	1.95
PPF-32220-10L	R1.0	2.0	4	3	10	50	1.95
PPF-32220-12L	R1.0	2.0	4	3	12	50	1.95
PPF-32220-16L	R1.0	2.0	4	3	16	50	1.95
PPF-32220-20L	R1.0	2.0	4	3	20	50	1.95
PPF-32230	R1.5	3.0	6	4.5	10	50	2.85
PPF-32230-16L	R1.5	3.0	6	4.5	16	60	2.85
PPF-32230-20L	R1.5	3.0	6	4.5	20	60	2.85
PPF-32230-25L	R1.5	3.0	6	4.5	25	75	2.85
PPF-32240	R2.0	4.0	6	6	12	50	3.85
PPF-32240-20L	R2.0	4.0	6	6	20	75	3.85
PPF-32240-30L	R2.0	4.0	6	6	30	75	3.85

◎ :Mükemmel ○ :İyi

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70									
◎	◎	◎				○		○	○	○				



werka

PROMOTION PRICE LIST

werka co., Ltd

Werka AG

Founded in 1950 by Henri Finzi, after nearly seven decades Werka AG be one of the well-known and respected Swiss tools specialist in West European cutting tools market. Be first very few companies who introduce Japanese HSS drills and threading tools into Europe market in 1960's, Werka AG has always innovative ideas for high quality of cutting tools. To solve your problems, Werka AG has consulting teams of specialists and engineers.



WERKA Deutschland GmbH

In 2012, WERKA Deutschland GmbH was founded in Mainhausen, about 30km away from Frankfurt a.M. WERKA Germany focus on the sales of professional cutting tools and hand tools in the German market. It offers customized products and service, efficient ensure fast delivery.

WERKA Co., Ltd

With more than 60 years' experience of serving industrial market, Werka AG decided to add measuring tools into his products range. China has good experience in manufacturing big range of high quality measuring tools and already be the most important OEM source for global market. Werka AG plan to combine the excellent design and engineering power of Europe and the great manufacturing ability of China to offer customers measuring tools with high quality and good cost performance. WERKA Co., Ltd was founded in 2013 in Shanghai and Chongqing branch was set up in 2018. Shanghai is the biggest commercial city in China and Chongqing city is a large industrial city in south-west of China.

Now Werka Co., Ltd is ready to offer you brand new range of measuring tools!

Werka Co., Ltd will be responsible for the global market except West Europe.



Quality Control Service

All WERKA products must pass the test at the quality control center and receive an inspection certificate before being delivered to customers.



Logistics:

Temperature and humidity controlled warehouse, provides safe storage of products. Professional and effective stock management enables us to deliver quality products to our customers in the shortest time.



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Explanation:

Meanings of the icons found in the catalog.



Labarotuvlar
onaylı sertifikat



Patented
product



Tolerance
warning
function

WERKA Co., Ltd bağımsız bir uzunluk ölçüm kalibrasyon laboratuvarı olan AQRAT Şangay ile yakın bir şekilde çalışmaktadır. AQRAT, Çin'de Dakks yeterliliğine sahip ilk ve tek uzunluk ölçüm laboratuvarıdır. WERKA'nın birçok ürünü AQRAT tarafından kontrol edilmektedir.



Precision Vernier Caliper



Top Quality Sensitivity in DIN862 Standards

- Stainless Steel
- Chrome Plated
- Fixing Screw on Top
- Flat depth bar (210-0085 item round depth bar)
- 4 Way Measuring
- Teeth measurement table on back surface
- In Plastic box
- Including Calibration Report

Code	Measuring Range	Scale Resolution	Precision
210-0016	0-150mm/0-6"	0.05mm/1/128"	±0.05mm
210-0023	0-200mm/0-8"	0.05mm/1/128"	±0.05mm
210-0030	0-300mm/0-12"	0.05mm/1/128"	±0.05mm
210-0047	0-150mm/0-6"	0.02mm/0.001"	±0.03mm
210-0054	0-200mm/0-8"	0.02mm/0.001"	±0.03mm
210-0061	0-300mm/0-12"	0.02mm/0.001"	±0.03mm
210-0085*	0-150mm/0-6"	0.05mm/1/128"	±0.05mm

* Round depth bar Ø 2.0mm

Workshop Vernier Caliper



- 0.05mm/1/128" scale resolution
- Stainless Steel
- Polished chrome finish
- Monoblock
- Internal and external measurement
- Fine tuning
- Including Calibration Report
- In Plastic box

Code	Measuring Range	Chin Length	Inside Dimension	Precision
213-8395	0-300mm/0-12"	100mm	20mm	±0.07mm
213-8401	0-500mm/0-20"	150mm	20mm	±0.09mm
213-9460	0-600mm/0-24"	100mm	20mm	±0.09mm
213-9477	0-600mm/0-24"	150mm	20mm	±0.09mm
213-8418	0-1000mm/0-40"	150mm	20mm	±0.10mm

Digital Caliper



Sensitivity in DIN862 Standards

- Stainless Steel
- 4 Way Measuring
- 3 Key; mm/inch, ON/OFF and ZERO
- 3V CR2032 Battery in Plastic box
- Including Calibration Report

Code	Measuring Range	Scale Resolution	Precision
210-9064*	150mm/6"	0.01mm/0.0005"	±0.03mm
210-9071*	200mm/8"	0.01mm/0.0005"	±0.03mm
210-9088*	300mm/12"	0.01mm/0.0005"	±0.03mm

* Sliding wheel

Workshop Digital Caliper



- 0.01mm/0.0005" scale resolution
- Stainless Steel
- Fine tuning
- 6 Key; pre+, pre-, in/mm, ABS, ZERO and ON/OFF
- 3V CR2032 Battery in Plastic box
- Including Calibration Report

Code	Measuring Range	Chin Length	Inside Dimension	Precision
213-8579	0-300mm/0-12"	100mm	20mm	±0.05mm
213-8586	0-500mm/0-20"	150mm	20mm	±0.06mm
213-9484	0-600mm/0-24"	100mm	20mm	±0.06mm
213-9491	0-600mm/0-24"	150mm	20mm	±0.06mm
213-8593	0-1000mm/0-40"	150mm	20mm	±0.07mm

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IP67 Digital Caliper



Sensitivity in DIN862 Standards

- IP 67 protection standard, protects against dust and short-term water resistant
- Stainless Steel
- Redesigned precision and high construction
- 4 Way Measuring
- 2 Key; MODE and SET
- 3V CR2032 Battery in Plastic box
- Including Calibration Report

Code	Measuring Range	Scale Resolution	Precision
210-8333	150mm/6"	0.01mm/0.0005"	±0.03mm
210-8340	200mm/8"	0.01mm/0.0005"	±0.03mm
210-8357	300mm/12"	0.01mm/0.0005"	±0.03mm

IP67 Digital Caliper with Tolerance Setting



Top Quality Sensitivity in DIN862 Standards



- When reading within the set tolerance limits, the green LED lights up
- IP 67 protection standard, protects against dust and short-term water resistant
- Stainless Steel
- Redesigned precision and high construction
- 4 Way Measuring
- 4 Key; INC, MODE, TOL and POWER/O
- 3V CR2032 Battery in Plastic box
- Including Calibration Report

Code	Measuring Range	Scale Resolution	Precision
210-7787	150mm/6"	0.01mm/0.0005"	±0.02mm
210-7794	200mm/8"	0.01mm/0.0005"	±0.03mm
210-7800	300mm/12"	0.01mm/0.0005"	±0.03mm

IP54 Digital Caliper



Top Quality Sensitivity in DIN862 Standards



- When reading within the set tolerance limits, the green LED lights up
- IP 67 protection standard, protects against dust and short-term water resistant
- Glass rail scale for precise measurement
- Stainless Steel
- 4 Way Measuring
- 4 Key; ING, MODE, TOL and POWER/O
- 3V CR2032 Battery in Plastic box
- Including Calibration Report

Code	Measuring Range	Scale Resolution	Precision
210-7909	150mm/6"	0.01mm/0.0005"	±0.02mm
210-7916	200mm/8"	0.01mm/0.0005"	±0.03mm
210-7923	300mm/12"	0.01mm/0.0005"	±0.03mm

IP54 and ABS Digital Caliper



Top Quality Sensitivity in DIN862 Standards



- When reading within the set tolerance limits, the green LED lights up
- Absolute value measurement (ABS) with 3V battery
- IP 54 protection standard, protects against dust and short-term water resistant
- Glass rail scale for precise measurement
- Unlimited scrolling speed
- Stainless Steel
- 4 Way Measuring
- 4 Key; ORIGIN, MODE, TOL and INC/POWER
- In Plastic box
- Including Calibration Report

Code	Measuring Range	Scale Resolution	Precision
210-7848	150mm/6"	0.01mm/0.0005"	±0.02mm
210-7855	200mm/8"	0.01mm/0.0005"	±0.03mm
210-7862	300mm/12"	0.01mm/0.0005"	±0.03mm

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Clock Caliper



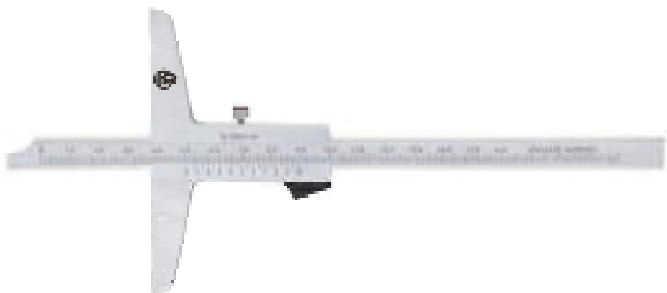
Top Quality
Sensitivity in DIN862 Standards

- Stainless Steel
- Redesigned precision and high construction
- Fixing screw on the top
- Flat depth bar
- 4 Way Measuring
- Threading table on back surface
- In Plastic box
- Including Calibration Report

Code	Measuring Range	Scale Resolution	Precision
210-8364	0-150mm	0.02mm	±0.03mm
210-8845	0-200mm	0.02mm	±0.03mm
210-8852	0-300mm	0.02mm	±0.03mm

210-8371	0-150mm	0.01mm	±0.03mm
210-8869	0-200mm	0.01mm	±0.03mm
210-8876	0-300mm	0.01mm	±0.03mm

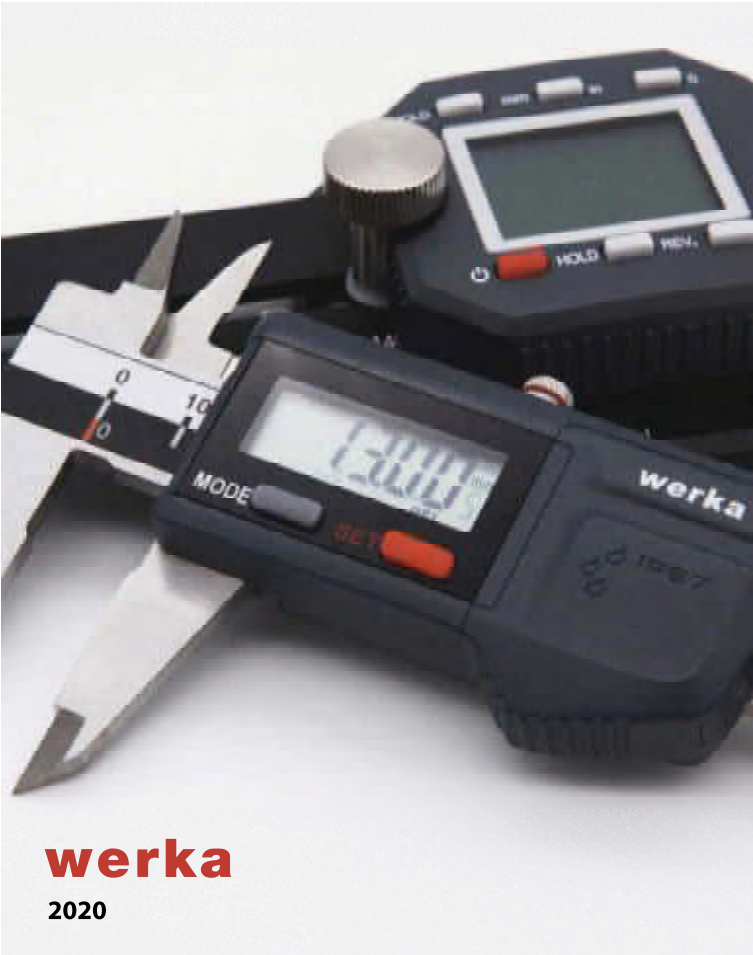
Monoblock Depth Caliper



Top Quality
Sensitivity in DIN862 Standards

- Stainless Steel
- Scale and slider chrome plated
- In Plastic box
- Including Calibration Report

Code	Measuring Range	Base Length	Scale Resolution	Precision
211-0146	150mm/6"	100mm	0.05mm	±0.05mm
211-9507	200mm/8"	150mm	0.05mm	±0.05mm
211-0153	300mm/12"	150mm	0.05mm	±0.05mm
211-0160	500mm/20"	150mm	0.05mm	±0.07mm



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2020

ABS Digital Depth Caliper



Top Quality
Sensitivity in DIN862 Standards

- Absolute value measurement (ABS) with 3V battery
- IP 54 protection standard, protects against dust and short-term water resistant
- Glass rail scale for precise measurement
- Unlimited scrolling speed
- Stainless Steel
- Fine ground and ground depth base
- 4 Key; ORIGIN, MODE, INC and POWER
- In Plastic box
- Including Calibration Report

Code	Measuring Range	Base Length	Scale Resolution	Precision
211-7961	150mm/6"	100mm	0.01mm/0.0005"	±0.03mm
211-7978	200mm/8"	150mm	0.01mm/0.0005"	±0.03mm
211-7985	300mm/12"	150mm	0.01mm/0.0005"	±0.04mm

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Neddle-Tipped Digital Tire Depth Caliper



Scale Resolution 0.01 mm/0.0005"
Tire thread depth ideal for narrow groove and small diameter hole dimensions
Needle-tipped
Stainless Steel
4 Key; mm/inch, ON/OFF and ZERO
In cardboard box

Code	Measuring Range	Base Lenght	Needle Diameter	Precision	List Price (\$)	Promotion Price (\$)
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Digital Tire Depth Caliper

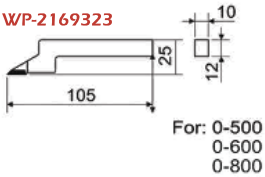
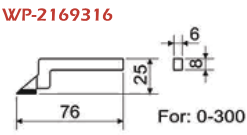


Scale Resolution 0.01 mm/0.0005"
It is made of high resistant and abrasion resistant plastic
Large LCD display for comfortable reading
3 Key; mm/inch, ON/OFF and ZERO
Including 1.5V Battery, in cardboard box

Code	Measuring Range	Base Lenght	Precision	List Price (\$)	Promotion Price (\$)
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Height Axis

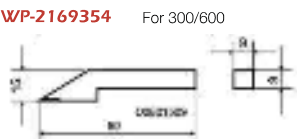


Sensitivity in DIN862 Standarts

- Stainless Steel
- Fine Tuning
- Carbide Tipped Plotter
- Polished Chrome Plated
- Cast iron solid base, varnished and ground work surface
- In Plastic box, including calibration report

Code	Measuring Range	Scale Resolution	Precision
216-7633	0-300mm	0.05mm	±0.05mm
216-7640	0-600mm	0.05mm	±0.07mm

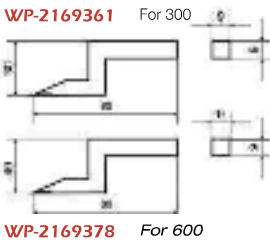
Double Height Column with Clock



- Double Column
- Stainless Steel
- Carbide Tipped Plotter
- Dial scale resolution 0.01 mm
- Double counter, one in the plus direction and the other in the negative direction
- Cast iron solid base, varnished and ground work surface
- In Plastic box, including calibration report

Code	Measuring Range	Scale Resolution	Precision
216-7695	0-300mm	0.01mm	±0.04mm
216-7718	0-600mm	0.01mm	±0.05mm

Magnifying Height Axis

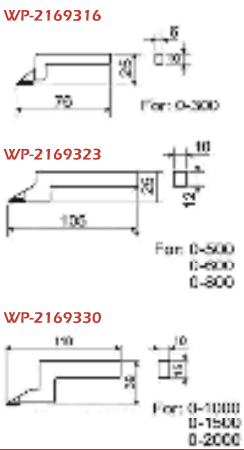


Sensitivity in DIN862 Standarts

- Stainless Steel
- Fine Tuning
- Adjustable scale
- Magnifier for comfortable reading
- Carbide Tipped Plotter
- Polished Chrome Plated
- Cast iron solid base, varnished and ground work surface
- In Cardboard box, including calibration report

Code	Measuring Range	Scale Resolution	Precision
216-7657	0-300mm	0.02mm	±0.04mm
216-7664	0-600mm	0.02mm	±0.05mm

Digital Height Axis



- Stainless Steel
- Fine Tuning
- Carbide Tipped Plotter
- 6 Key; TOL, ON/OFF/PRE, HOLD, ZERO/ABS, mm/in and DIR
- Cast iron solid base, varnished and ground work surface
- Powered by 3V Battery
- In Plastic box, including calibration report

Code	Measuring Range	Scale Resolution	Precision
216-8661	300mm/12"	0.01mm/0.0005"	±0.04mm
216-8678	600mm/24"	0.01mm/0.0005"	±0.05mm
216-8685	1000mm/40"	0.01mm/0.0005"	±0.07mm

Mechanical Outside Diameter Micrometer



Sensitivity in DIN863 Standarts

- Ratchet from drum
- Round carbide measuring tips
- Frame painted, chrome plated dial
- Reset gauge for products from 20-25mm and above included
- Drum
- In cartoon box, including calibration report

Code	Measuring Lenght	Scale Resolution	Precision
217-5523	0-25mm	0.01mm	±4µm
217-5530	25-50mm	0.01mm	±4µm
217-5547	50-75mm	0.01mm	±5µm
217-5554	75-100mm	0.01mm	±5µm
217-5561	100-125mm	0.01mm	±5µm
217-5578	125-150mm	0.01mm	±6µm
217-9583	150-175mm	0.01mm	±7µm
217-9590	175-200mm	0.01mm	±7µm
217-9606	200-225mm	0.01mm	±8µm
217-9613	225-250mm	0.01mm	±8µm
217-9620	250-275mm	0.01mm	±9µm
217-9637	275-300mm	0.01mm	±9µm

Digital Outside Diameter Micrometer



Sensitivity in DIN863 Standarts

- IP54 protection standard, protects against dust and short-term water resistant
- Frame painted, ratchet and chrome plated drum
- Round carbide measuring tips
- Functions; mm/inch, ON/OFF, and reset in any position
- Reset gauge for products from 25-50mm and above included
- In plastic box, including 3V CR2032 battery and calibration report

Code	Measuring Lenght	Scale Resolution	Precision
217-5806	0-25mm/0-1"	0.001mm/0.00005"	±3µm
217-5813	25-50mm/1-2"	0.001mm/0.00005"	±3µm
217-5820	50-75mm/2-3"	0.001mm/0.00005"	±4µm
217-5837	75-100mm/3-4"	0.001mm/0.00005"	±4µm
217-5844	100-125mm/4-5"	0.001mm/0.00005"	±5µm
217-5851	125-150mm/5-6"	0.001mm/0.00005"	±5µm

IP65 Digital Outside Diameter Micrometer



Sensitivity in DIN863 Standarts

- Induction measuring system
- Mini USB data interface output
- IP65 protection standard, protects against dust and short-term water resistant
- Frame painted, ratchet and chrome plated drum
- Carbure measuring tips
- Functions; mm/inch, ON/OFF and data storage and reset in any position
- Reset gauge for products from 25-50mm and above included
- In plastic box, including 3V CR2032 battery and calibration report

Code	Measuring Lenght	Scale Resolution	Precision
217-5929	0-25mm/0-1"	0.001mm/0.00005"	±3µm
217-5936	25-50mm/1-2"	0.001mm/0.00005"	±3µm
217-5943	50-75mm/2-3"	0.001mm/0.00005"	±4µm
217-5950	75-100mm/3-4"	0.001mm/0.00005"	±4µm
217-5967	100-125mm/4-5"	0.001mm/0.00005"	±5µm
217-5974	125-150mm/5-6"	0.001mm/0.00005"	±5µm



Micrometer Set



- 0.01mm Scale resolution
- Frame painted, ratchet and chrome plated drum
- Replaceable measuring tips
- Carbide measuring tips
- Ø 8.0mm measuring tips
- Reset gauges included
- Manufacturer standard sensitivity
- In wooden box, including calibration report

Code	Measuring Lenght	Measuring Tip	Reset Gauge	Precision
217-5721	0-150mm	6 piece	5 piece	±6µm
217-5738	150-300mm	6 piece	6 piece	±9µm
217-9576*	0-150mm	-	5 piece	±4µm...6µm

* 6 micrometers of different sizes

Inside Diameter Micrometer



- Round carbide measuring tips
- Chrome-plated drum
- Ratchet from drum
- In cartoon box, including calibration report

Code	Measuring Lenght	Scale Resolution	Precision
217-6261	5-30mm	0.01mm	±5µm
217-6278	25-50mm	0.01mm	±6µm
217-6285	50-75mm	0.01mm	±7µm
217-6292	75-100mm	0.01mm	±8µm

Depth Micrometer



- 100x16mm Base
- Ø 4.5mm measuring spindles with ball ends
- Easy exchange measuring shafts
- Ratchet from drum
- Chrome-plated dial
- Including calibration report

Code	Measuring Lenght	Scale Resolution	Precision
217-6193	0-150mm	0.01mm	±5µm
217-6209	0-200mm	0.01mm	±6µm
217-6216	0-300mm	0.01mm	±7µm

Micrometer Stand



- Cast iron base
- Adjustable angle vise
- Rubber-based jaw to protect tools
- Suitable for micrometers up to 100mm

Code	Micrometer dimensions used
217-6858	0-100mm

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Comparator with Clock



- 0.01mm Scale resolution
- Repeatability 3µm
- Shaft Ø 8mm h6
- DIN878
- Metal body
- Adjustable tolerance indicators
- Standard and impact resistant models available
- With ear flap, single ear accessory
- In cartoon box Including calibration certification

Code	Measuring Range	Model	Hysteresis	Clock Diameter
220-6964	0-10mm	Standart	3µm	58mm
220-6971	0-10mm	Darbeye Dayanıklı	3µm	58mm

Tolerance Adjustable Digital Comparator with Clock



- Shaft Ø 8mm h6
- Data output from mini USB interface
- Green led light illuminates when reading within set tolerance limits
- Absolute value measurement (ABS) with 3V battery
- Glass rail scale for precise measurement
- Rotating display between 0-330° for comfortable reading at different angles
- 7 Key; in/mm, +/- (for direction measurement), ZERO/ABS, PRESET, ORIGIN, TOL and POWER
- With ear flap, single ear accessory
- In plastic box
- Including calibration certification

Code	Measuring Range	Scale Resolution	Precision
221-8142	0-12.7mm/0-0.5"	0.001mm/0.00005"	±4µm

Long Comparator with Clock



- 0.01mm Scale resolution
- Repeatability 3 µm
- Shaft Ø 8mm h6
- Adjustable tolerance indicators
- Earless cover (Ear cover available on request)
- In cartoon box
- Including calibration certification

Code	Measuring Range	Clock Diameter	Shaft Diameter	Hysteresis
220-6988	0-30mm	58mm	8mm	7µm
220-6995	0-50mm	58mm	8mm	8µm

Digital Comparator with Clock



- Shaft Ø 8mm h6
- With data output
- Large display for comfortable reading
- Glass rail scale for precise measurement
- 3 Key; in/mm, ABS nad ZERO/ON
- Reset function
- Earless cover
- 3V CR2032 including plastik box
- With calibration certificate

Code	Measuring Range	Scale Resolution	Precision
221-9095	0-12.7mm/0-0.5"	0.01mm/0.0005"	±0,02mm
221-9125	0-12.7mm/0-0.5"	0.001mm/0.00005"	±4µm

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Secretion Clock

- 0.01mm Scale resolution
- Repeatability 3 µm
- High performance due to antimagnetic brass body
- Precious stone bearing for high precision and long life
- Carbide contact tip for long life Ø 2mm
- 230° swivel wide angle tip
- 3 dovetail connections for securing the holder
- Accessory clamps included as Ø6mm and Ø8mm
- In cartoon box
- Including calibration certification

Code	Measuring Lenght	Clock Diameter	Gland Lenght	Hysteresis
220-7046	0-0,08mm	30mm	16.5mm	3µm
220-7053	0-0,08mm	37.5mm	16.5mm	3µm



Cylinder Comparator



- Scale Resolution 0.01mm
- Repeatability 0.003mm

Code	Measuring Lenght	Measuring Depth	Precision
220-7114	6-10mm	40mm	±12µm
220-7121	10-18mm	100mm	±12µm
220-7138	18-35mm	150mm	±15µm
220-7145	35-50mm	150mm	±18µm
220-7152	50-160mm	150mm	±18µm
220-9552	160-250mm	250mm	±18µm
220-9569	250-450mm	250mm	±18µm



Magnetic Foot

- Standard Model
- Arm Sizes Ø12x176mm + Ø10x160mm
- Ø8mm and Ø6.5mm for shafted comparator
- Magnetic V Block Base With On / Off Switch
- In Cartoon Box



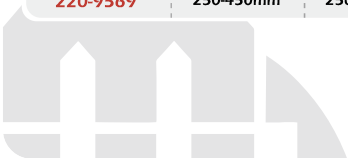
Code	Magnetic Power	Base Size (LxWxH) mm
230-8159	60kg	58x50x55

Precision Tuned Magnetic Foot

- Precision adjustable standard model
- Arm Sizes Ø12x176mm + Ø10x160mm
- Ø8mm and Ø6.5mm for shafted comparator
- Magnetic V Block Base With On / Off Switch
- In Cartoon Box



Code	Magnetic Power	Base Size (LxWxH) mm
230-8166	60kg	58x50x55



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Precision Adjustable Heavy Duty Magnetic Leg



- Fine tuning, heavy duty
- Arm sizes Ø16x225mm + Ø12x190mm
- Magnetic V-block base with on / off switch
- For dial gauge watches with Ø6.5mm and Ø8mm shaft and dovetail watches
- In cartoon box

Code	Magnetic Power	Base Lenght (LxWxH)mm
230-8173	60kg	58x50x55

Universal Magnetic Foot



Best Quality

- Very strong locking
- 255mm Steel handle
- For dial gauge watches with Ø8mm shaft and dovetail watches
- Fine tuning
- Magnetic V-block base with on / off switch
- In cartoon box

Code	Magnetic Power	Base Lenght (LxWxH)mm
230-8197	60kg	58x50x55

Chrome Plated Universal Magnetic Foot



- Central mechanical support connection apparatus
- 350mm long chrome plated steel sleeve
- For dial gauge watches with Ø8mm shaft and dovetail watches
- Fine tuning
- Magnetic V-block base with on / off switch
- In cartoon box

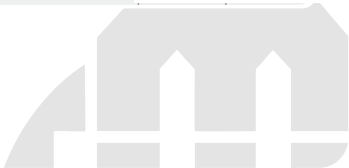
Code	Magnetic Power	Base Lenght (LxWxH)mm
230-8180	80kg	58x50x55

Mini Universal Magnetic Foot



- Mini model
- 187mm Steel handle
- For dial gauge watches with Ø8mm shaft and dovetail watches
- Fine tuning
- Magnetic V-block base with on / off switch
- In cartoon box

Code	Magnetic Power	Base Lenght (LxWxH)mm
230-8203	40kg	36x35x30



Flat Miter

- DIN875/1
- Stainless steel
- Isolated logo
- Grinded work surface
- In cartoon box
- Certification



Code	Dimensions (LxW)	Section
240-0924	200x130mm	30x6mm
240-0931	250x165mm	35x7mm
240-0948	300x200mm	40x8mm
240-0955	400x265mm	40x8mm
240-0962	500x330mm	40x8mm

Protractor Miter



- Measurement from 0 to 180°
- Carbon steel
- Bright chrome plated, fixing screw
- Soft case

Code	Dimensions	Scale Resolution
242-0597	80x120mm	0.1°
242-0603	120x150mm	0.1°
242-0610	150x200mm	0.1°
242-0627	200x300mm	0.1°
242-0634	300x500mm	0.1°

Miter Hat

- DIN875/1
- Stainless steel
- Isolated logo
- Grinded work surface
- In cartoon box
- Certification



Code	Dimensions (LxW)	Section
240-1006	200x130mm	30x6mm
240-1013	250x165mm	35x7mm
240-1020	300x200mm	40x8mm
240-1037	400x265mm	40x8mm
240-1044	500x330mm	40x8mm



Angle Meter With Magnifier



- Measuring range 360°
- 5' Scale resolution
- Stainless steel
- Laser partitioning
- Hardened and ground measuring surfaces
- Fine tuning
- Adjustable reset at any angle
- Standard accessory sharp angle base
- In cartoon box

Code	Gauges	Precision
242-0504	150/200/300mm	±5'

Digital Universal Angle Gauge



- Measuring range 360°
- Two line display, scale resolutions; 0.005° on top row and 30" on bottom row
- Stainless steel
- Hardened and ground measuring surfaces
- LCD display for comfortable reading
- 360°/180°/190° Preset, two measuring directions can be selected
- 3 Key; Mode, SET and ZERO/ON/OFF
- Fixing screw system
- Standard accessory sharp angle base
- In cartoon box including 3V CR2032 battery

Code	Gauges	Precision
242-0511	150/200/300mm	±5'

IP65 Digital Scales and Angle Meter



IP 65 protection standard, protects against dust and short-term water resistant
Precision leveling, ideal tool for measuring angle applications

- Durable aluminum double-sided V-channel housing
- Large backlit LCD display
- The display is always read straight, regardless of which direction the angle gauge is turned
- Absolute value measurement (ABS) system for easy self-calibration with data storage function
- ON / OFF and ZERO keys, reset at any angle
- No special tools for calibration adjustment
- 2 pieces AAA battery
- In cartoon box

Code	Measuring Length	Scale Resolution	Precision
242-0702	360° (4x90°)	0.05°	0° and 90° ±0.1° Other angles ±0.2°

Digital Scales and Angle Meter

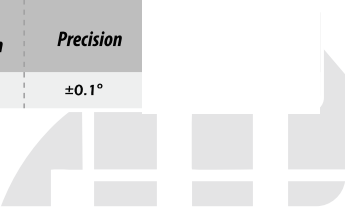


Easy-to-use tool for measuring angle and many other applications

- LCD display for comfortable reading
- Magnetic V-block base
- 2 Key; ON/OFF/ZERO and HOLD
- Angle and slope alternately
- Dimensions 55x57x32mm
- 2 pieces AAA battery
- In cartoon box

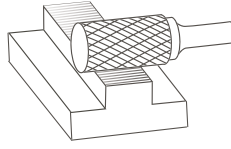
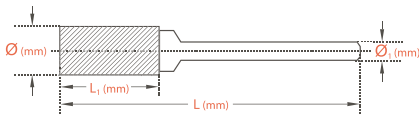
Code	Measuring Length	Scale Resolution	Precision
242-0719	±180°	0.1°	±0.1°

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2020



A TİPİ - SİLİNDİRİK DÜZ


KODU **Ø** **Ø₁** **L₁** **L** 

3 mm SAPLI - KOMPLE KARBÜR

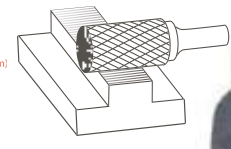
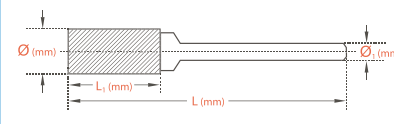
DWF3KA02	2.5 mm	3	11.0	38	10
DWF3KA03	3.0 mm	3	14.0	38	10

3 mm SAPLI

DWF3A04	4.0 mm	3	12.7	51	10
DWF3A05	5.0 mm	3	12.7	51	10
DWF3A06	6.3 mm	3	12.7	51	10

6 mm SAPLI

DWFA06	6.0 mm	6	16.0	61	25
DWFA08	8.0 mm	6	20.0	65	25
DWFA10	10.0 mm	6	20.0	65	25
DWFA12	12.0 mm	6	25.0	70	25
DWFA16	16.0 mm	6	25.0	70	25


B TİPİ - ALIN KESMELİ - SİLİNDİRİK DÜZ


KODU **Ø** **Ø₁** **L₁** **L** 

3 mm SAPLI - KOMPLE KARBÜR

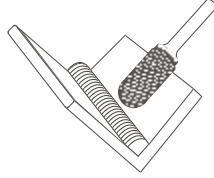
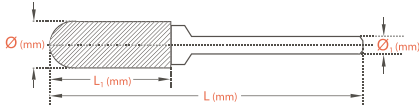
DWF3KB02	2.5 mm	3	11.0	38	10
DWF3KB03	3.0 mm	3	14.0	38	10

3 mm SAPLI

DWF3B06	6.3 mm	3	4.8	51	10
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6 mm SAPLI

DWFB06	6.0 mm	6	20.0	65	25
DWFB08	8.0 mm	6	20.0	65	25
DWFB10	10.0 mm	6	20.0	65	25
DWFB12	12.0 mm	6	25.0	70	25
DWFB16	16.0 mm	6	25.0	70	25


C TİPİ - SİLİNDİRİK OVAL BAŞLI


KODU **Ø** **Ø₁** **L₁** **L** 

3 mm SAPLI - KOMPLE KARBÜR

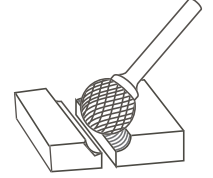
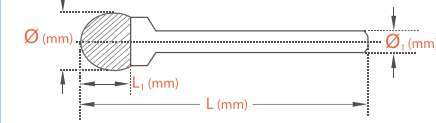
DWF3KC02	2.5 mm	3	11.0	38	10
DWF3KC03	3.0 mm	3	14.0	38	10

3 mm SAPLI

DWF3C04	4.0 mm	3	12.7	51	10
DWF3C05	5.0 mm	3	12.7	51	10
DWF3C06	6.3 mm	3	12.7	51	10

6 mm SAPLI

DWFC06	6.0 mm	6	16.0	61	25
DWFC08	8.0 mm	6	20.0	65	25
DWFC10	10.0 mm	6	20.0	65	25
DWFC12	12.0 mm	6	25.0	70	25
DWFC16	16.0 mm	6	25.0	70	25


D TİPİ - YUVARLAK - MİSKET BAŞLI


KODU **Ø** **Ø₁** **L₁** **L** 

3 mm SAPLI - KOMPLE KARBÜR

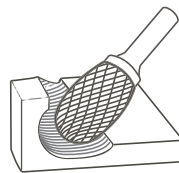
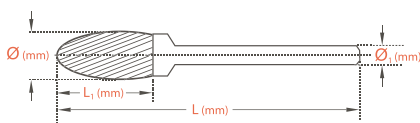
DWF3KD03	3.0 mm	3	3.0	38	10
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3 mm SAPLI

DWF3D04	4.0 mm	3	3.4	41	10
DWF3D05	5.0 mm	3	4.0	42	10
DWF3D06	6.3 mm	3	5.0	42	10

6 mm SAPLI

DWFD04	4.0 mm	6	3.0	48	25
DWFD06	6.0 mm	6	5.0	50	25
DWFD08	8.0 mm	6	7.0	52	25
DWFD10	10.0 mm	6	9.0	54	25
DWFD12	12.0 mm	6	10.0	55	25
DWFD16	16.0 mm	6	14.0	59	25


E TİPİ - OVAL GÖVDE


KODU **Ø** **Ø₁** **L₁** **L** 

3 mm SAPLI - KOMPLE KARBÜR

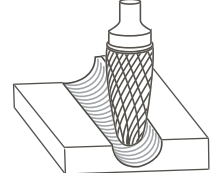
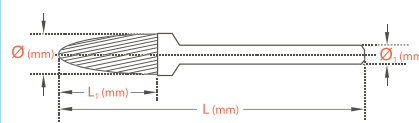
DWF3KE03	3.0 mm	3	5.5	38	10
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3 mm SAPLI

DWF3E04	4.0 mm	3	6.0	44	10
DWF3E05	5.0 mm	3	7.0	45	10
DWF3E06	6.3 mm	3	9.5	48	10

6 mm SAPLI

DWFE06	6.0 mm	6	10.0	55	25
DWFE08	8.0 mm	6	13.0	58	25
DWFE10	10.0 mm	6	16.0	61	25
DWFE12	12.0 mm	6	20.0	65	25


F TİPİ - KAVİSLİ SİLİNDİR


KODU **Ø** **Ø₁** **L₁** **L** 

3 mm SAPLI - KOMPLE KARBÜR

DWF3KF03	3.0 mm	3	12.7	38	10
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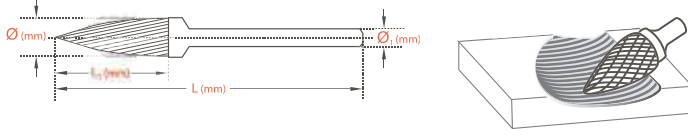
3 mm SAPLI

DWF3F04	4.0 mm	3	12.7	51	10
DWF3F05	5.0 mm	3	12.7	51	10
DWF3F06	6.3 mm	3	12.7	51	10

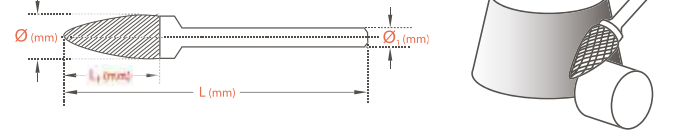
6 mm SAPLI

DWFF06	6.0 mm	6	18.0	63	25
DWFF08	8.0 mm	6	20.0	65	25
DWFF10	10.0 mm	6	20.0	65	25
DWFF12	12.0 mm	6	25.0	70	25
DWFF16	16.0 mm	6	25.0	70	25

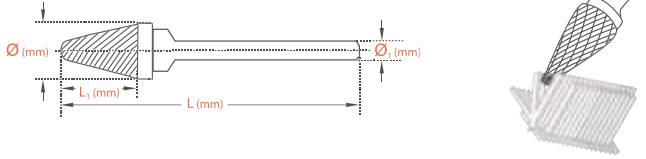


G TİPİ - SİVRİ KAVİSLİ


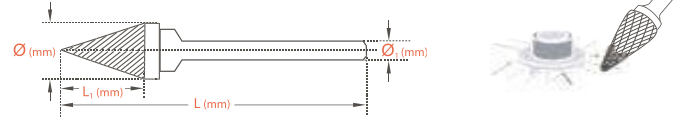
KODU	Ø	Ø ₁	L ₁	L		
3 mm SAPLI - KOMPLE KARBÜR						
DWF3KG03	3.0 mm	3	9.5	38		10
3 mm SAPLI						
DWF3G04	4.0 mm	3	12.7	51		10
DWF3G05	5.0 mm	3	12.7	51		10
DWF3G06	6.3 mm	3	12.7	51		10
6 mm SAPLI						
DWFG06	6.0 mm	6	18.0	63		25
DWFG08	8.0 mm	6	20.0	65		25
DWFG10	10.0 mm	6	20.0	65		25
DWFG12	12.0 mm	6	25.0	70		25
DWFG16	16.0 mm	6	25.0	70		25


H TİPİ - KAVİSLİ ÇAM


KODU	Ø	Ø ₁	L ₁	L		
3 mm SAPLI - KOMPLE KARBÜR						
DWF3KH03	3.0 mm	3	6.3	38		10
3 mm SAPLI						
DWF3H04	4.0 mm	3	8.0	46		10
DWF3H05	5.0 mm	3	9.5	47		10
DWF3H06	6.3 mm	3	18.0	56		10
6 mm SAPLI						
DWFH06	6.0 mm	6	18.0	63		25
DWFH08	8.0 mm	6	20.0	65		25
DWFH10	10.0 mm	6	25.0	70		25
DWFH12	12.0 mm	6	32.0	77		25
DWFH16	16.0 mm	6	36.0	81		25


L TİPİ - KONİK YUVARLAK


KODU	Ø	Ø ₁	L ₁	L		
3 mm SAPLI - KOMPLE KARBÜR						
DWF3KL03	3.0 mm	3	9.5	36.5		10
3 mm SAPLI						
DWF3L04	4.0 mm	3	12.7	51.0		10
DWF3L05	5.0 mm	3	12.7	52.0		10
6 mm SAPLI						
DWFL06	6.0 mm	6	16.0	61.0		25
DWFL08	8.0 mm	6	22.0	67.0		25
DWFL10	10.0 mm	6	25.0	70.0		25
DWFL12	12.0 mm	6	28.0	73.0		25
DWFL16	16.0 mm	6	33.0	78.0		25


M TİPİ - KONİK SİVRİ


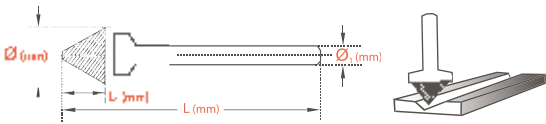
KODU	Ø	Ø ₁	L ₁	L		
3 mm SAPLI - KOMPLE KARBÜR						
DWF3KM03	3.0 mm	3	11.0	38		10
3 mm SAPLI						
DWF3M04	4.0 mm	3	11.0	46		10
DWF3M05	5.0 mm	3	12.7	51		10
DWF3M06	6.3 mm	3	12.7	51		10
6 mm SAPLI						
DWFM06	6.0 mm	6	18.0	63		25
DWFM08	8.0 mm	6	18.0	63		25
DWFM10	10.0 mm	6	20.0	65		25
DWFM12	12.0 mm	6	25.0	70		25
DWFM16	16.0 mm	6	25.0	70		25


**50 PARÇA 6 mm SAPLI
KARBÜR KALIPÇI FREZE SETİ**

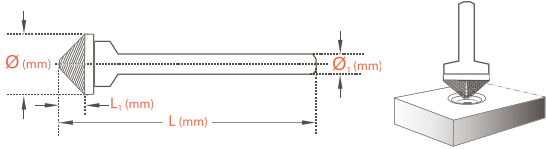
SET İÇERİĞİ

A TİPİ	6	8	10	12	16	mm
B TİPİ	6	8	10	12	16	mm
C TİPİ	6	8	10	12	16	mm
D TİPİ	4	6	8	10	12	16 mm
E TİPİ	6	8	10	12	mm	
F TİPİ	6	8	10	12	16	mm
G TİPİ	6	8	10	12	16	mm
H TİPİ	6	8	10	12	16	mm
L TİPİ	6	8	10	12	16	mm
M TİPİ	6	8	10	12	16	mm

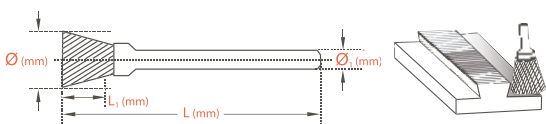


J TİPİ - 60° KONİK


KODU	Ø	Ø ₁	L ₁	L		
6 mm SAPLI						
DWFJ08	8.0 mm	6	6.0	54		25
DWFJ10	10.0 mm	6	8.0	55		25
DWFJ13	12.0 mm	6	11.0	59		25
DWFJ16	16.0 mm	6	14.5	62		25
DWFJ19	19.0 mm	6	17.5	66		25


K TİPİ - 90° KONİK


KODU	Ø	Ø ₁	L ₁	L		
6 mm SAPLI						
DWFK10	10.0 mm	6	4.7	52		25
DWFK13	12.0 mm	6	6.3	54		25
DWFK16	16.0 mm	6	8.0	55		25
DWFK19	19.0 mm	6	9.5	58		25
DWFK25	25.0 mm	6	12.7	60		25


N TİPİ - TERS KONİK


KODU	Ø	Ø ₁	L ₁	L		
3 mm SAPLI - KOMPLE KARBÜR						
DWF3KN02	2.5 mm	3	3.0	38		10
DWF3KN03	3.0 mm	3	4.0	38		10
3 mm SAPLI						
DWF3N05	5.0 mm	3	6.0	44		10
DWF3N06	6.3 mm	3	6.0	44		10


TEK KANALLI KOMPLE KARBÜR KALIPÇI FREZELER

i Ø 3.0 mm
L 39 mm

10

A TİPİ
DWFKK3A

C TİPİ
DWFKK3C

D TİPİ
DWFKK3D

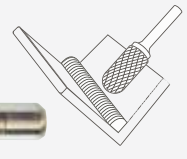
E TİPİ
DWFKK3E

F TİPİ
DWFKK3F

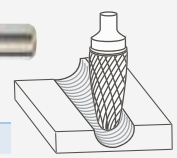
M TİPİ
DWFKK3M

300

**EKONOMİK
YENİ**

CONE
C TİPİ - SİLİNDİRİK OVAL BAŞLI


KODU	Ø	Ø ₁	L ₁	L		
CNFC10	10.0 mm	6	20.0	65		10

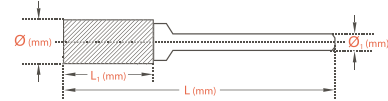
CONE
F TİPİ - KAVİSLİ SİLİNDİR


KODU	Ø	Ø ₁	L ₁	L		
CNFF10	10.0 mm	6	20.0	65		10
CNFF12	12.0 mm	6	25.0	70		10

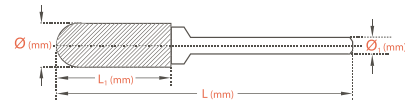
**EKONOMİK
YENİ**

DEMİR DİŞİ MALZEMELER İÇİN KARBÜR KALIPÇI FREZELERİ

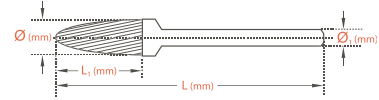
ALUMİNYUM. BAKIR. KURŞUN. KALAY. PLASTİK. FİBER VE PLEKSİ İÇİN

A TİPİ - SİLİNDİRİK DÜZ


KODU	Ø	Ø ₁	L ₁	L		
DWFAA08	8.0 mm	6	20.0	65		25
DWFAA10	10.0 mm	6	20.0	65		25
DWFAA12	12.0 mm	6	25.0	70		25

C TİPİ - SİLİNDİRİK OVAL BAŞLI


KODU	Ø	Ø ₁	L ₁	L		
DWFAC08	8.0 mm	6	20.0	65		25
DWFAC10	10.0 mm	6	20.0	65		25
DWFAC12	12.0 mm	6	25.0	70		25

F TİPİ - KAVİSLİ SİLİNDİR


KODU	Ø	Ø ₁	L ₁	L		
DWFAF08	8.0 mm	6	20.0	65		25
DWFAF10	10.0 mm	6	20.0	65		25
DWFAF12	12.0 mm	6	25.0	70		25

DÜZ ŞAFTLI TAŞ DÜZELTME ELMASI



KODU	KARAT	L		
GRED03	0.3 kt	50 mm		10
GRED05	0.5 kt	50 mm		10
GRED07	0.7 kt	50 mm		10
GRED10	1.0 kt	50 mm		10
GRED15	1.5 kt	50 mm		10
GRED20	2.0 kt	50 mm		10
GRED25	2.5 kt	50 mm		10
GRED30	3.0 kt	50 mm		10
GRED40	4.0 kt	50 mm		10

 Tekli Kutuda - 10 Adet Kartonda

1 MORS KONİK ŞAFTLI TAŞ DÜZELTME ELMASI



KODU	KARAT	L		
GRED03K	0.3 kt	55 mm		10
GRED05K	0.5 kt	55 mm		10
GRED07K	0.7 kt	55 mm		10
GRED10K	1.0 kt	55 mm		10
GRED15K	1.5 kt	55 mm		10
GRED20K	2.0 kt	55 mm		10
GRED25K	2.5 kt	55 mm		10
GRED30K	3.0 kt	55 mm		10
GRED40K	4.0 kt	55 mm		10

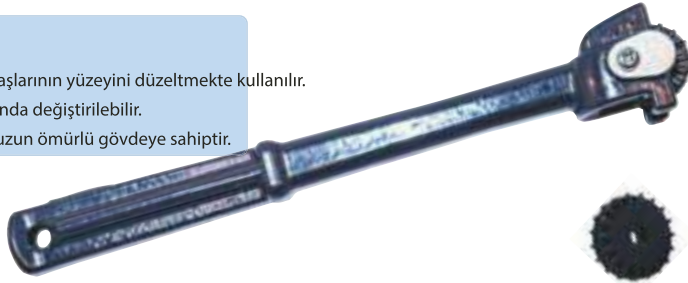
 Tekli Kutuda - 10 Adet Kartonda

ZIMPARA TAŞI DÜZELTME - KESME APARATI

No. 0

Özellikler

- * Zimpara ve çapak taşlarının yüzeyini düzeltmekte kullanılır.
- * Çoklu çark, aşındığında değiştirilebilir.
- * Metal gövdeli, çok uzun ömürlü gövdeye sahiptir.



KODU	ZIMPARA TAŞI ÇAP	ÇARK ENİ	ÇOKLU ÇARK KALINLIĞI	ÇARK DELİĞİ
DWZ2876300	0 ... 250 mm	50 mm	12 mm	1/4" (6 mm)
DWZ2876350		YEDEK BİLEME ÇARKI		

 Elmas taşlama ve bileme taşlarında kullanılmamalıdır.

ÇOK NOKTALI TAŞ DÜZELTME ELMASI

GRED4MP



 Boyutlar 20 x 10 x 55 mm
Karat 0.4 ... 0.5 kt

ELMASLI SUBAP ALIŞTIRMA MACUNU

KODU	MİKRON	ŞİRINGA		
GREM01	1.0 um - Sarı	5 gr		12 120
GREM015	1.5 um - Turuncu	5 gr		12 120
GREM05	5.0 um - Mavi	5 gr		12 120
GREM10	10.0 um - Mavi	5 gr		12 120
GREM14	14.0 um - A. Yeşil	5 gr		12 120
GREM20	20.0 um - Yeşil	5 gr		12 120
GREM28	28.0 um - Turkuaz	5 gr		12 120
GREM40	40.0 um - K. Yeşil	5 gr		12 120

 Subaplar, Valfler, Kalıplar, Motorlar, Yataklar ve Lebleme gerektiren her türlü parça için.





SAPHIRE

CUTTING TOOLS

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