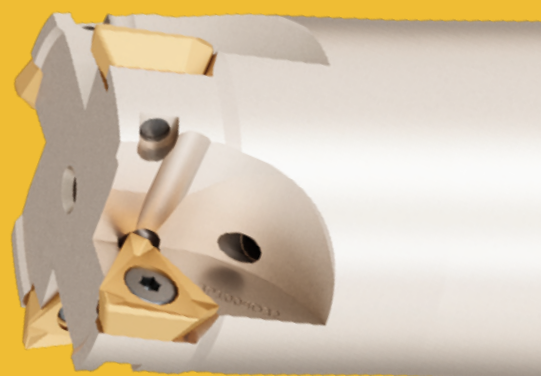




FREZELEME MILLING

2025 | CATALOG

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 **EUROLOY**
CARBIDE TOOLS

S

P

K

R

12

1

Kesici Uç Şekli
Insert Shape

2

Ayrılma Açısı
Approach Angle

3

Tolerans
Tolerance

4

Kesici Uç Tipi
Cutting Insert Type

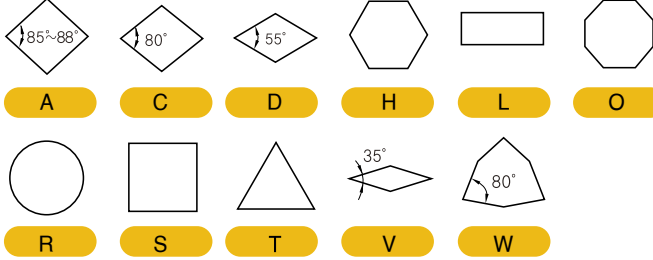
5

Kesme Kenar Uzunluğu
Cutting Edge Length

1

Kesici Uç Şekli / Insert Shape

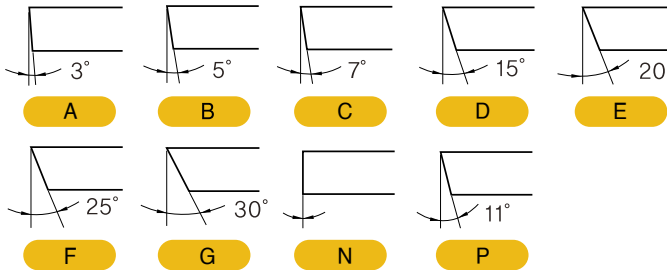
S P K R 12 03 ED 08 S R - MX



2

Ayrılma Açısı / Approach Angle

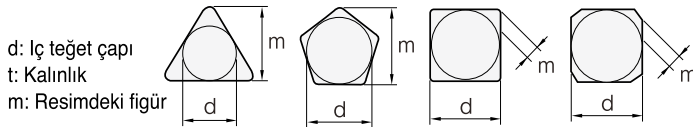
S P K R 12 03 ED 08 S R - MX



3

Tolerans / Tolerance

S P K R 12 03 ED 08 S R - MX

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

Sınıf	d	m	t	d	Tolerans d	Tolerans m
					J, K, L, M, N	U
A	±0.025	±0.005	±0.025	6.35	±0.05 ±0.08	±0.08 ±0.13
C	±0.025	±0.013	±0.025	9.525	±0.05 ±0.08	±0.08 ±0.13
H	±0.013	±0.013	±0.025	12.7	±0.08 ±0.13	±0.13 ±0.20
E	±0.025	±0.025	±0.025	15.875	±0.10 ±0.18	±0.15 ±0.27
G	±0.025	±0.025	±0.13	19.05	±0.10 ±0.18	±0.15 ±0.27
J	±0.05~±0.15	±0.005	±0.025	25.4	±0.13 ±0.25	±0.18 ±0.38
K	±0.05~±0.15	±0.013	±0.025			
L	±0.05~±0.15	±0.025	±0.025			
M	±0.05~±0.15	±0.08~±0.20	±0.13			
U	±0.08~±0.25	±0.13~±0.38	±0.13			

(mm)

D Tipi Kesici Uçların Toleransları (Özel Durumlar)

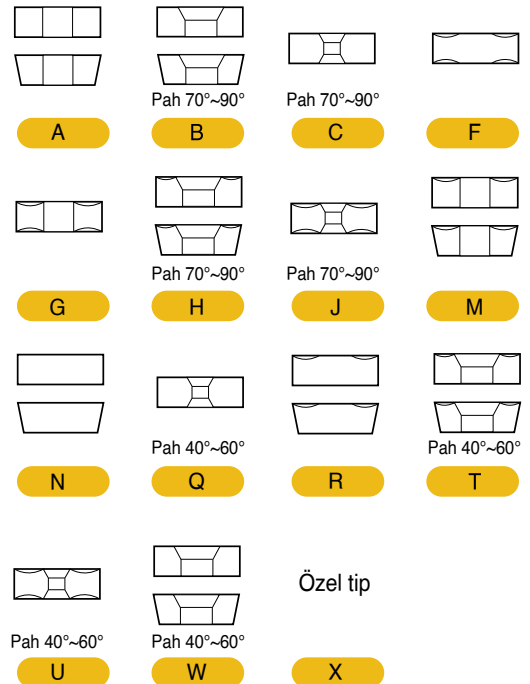
Tolerance on D Insert Shape (Exceptional Case)

d	Tolerance d	Tolerance m
6.35	±0.05	±0.11
9.525	±0.05	±0.11
12.7	±0.08	±0.15
15.875	±0.10	±0.18
19.05	±0.10	±0.18

4

Kesici Uç Tipi / Cutting Insert Type

S P K R 12 03 ED 08 S R - MX

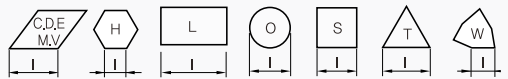


5

Kesme Kenar Uzunluğu / Cutting Edge Length

S P K R 12 03 ED 08 S R - MX

Metrik Sistem



İnç Sistem



- 1/32" iç teğeti 1/4" den küçük olan kesici uçlar için kullanılacak değer
- 1/8" iç teğeti 1/4" den büyük olan kesici uçlar için kullanılacak



* Yuvarlak uçların yanı sıra eşkenar dörtgen ve dikdörtgen kesici uçlar daha uzun bir kesme kenarı sağlar.

"Metrik" ve "İnç" Sistemine Göre Tablo

	06	09	11	16	22	27	33	44
İç Teğet Çapı	03	05	06	09	12	15	19	25
İnç Sistem	5	7	2 (8)	3	4	5	6	8

03

6

Kesici Uç Kalınlığı
Height of Cutting
Edge

ED
08

7

Köşe Radyüsü
Nose Radius
(Nose R)

S

8

Kenar Şekli
Edge Shape

R

9

Kesme Yönü
Cutting Direction

MX

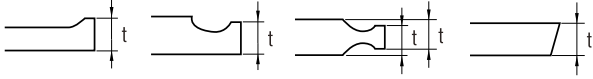
10

Frezeleme için Talaş Kırıcı
Chip Breaker for Milling

6

Kesici Uç Kalınlığı / Height of Cutting Edge

S P K R 12 03 ED 08 S R - MX



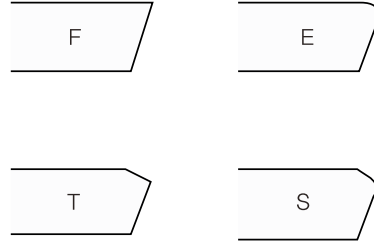
Sembol		Kesme kenar kalınlığı (t)	
Metrik	İnç	mm	İnç
01	1 (2)	1.59	1/16
T0	1.125	1.79	9/128
T1	1.2	1.98	5/64
02	1.5 (3)	2.38	3/32
T2	1.75	2.78	7/64
03	2	3.18	1/8
T3	2.5	3.97	5/32
04	3	4.76	3/16
05	3.5	5.56	7/32
06	4	6.35	1/4
07	5	7.94	5/16
09	6	9.52	3/8
11	7	11.11	7/16
12	8 (16)	12.70	1/2

() Küçük ölçülü kesici uçlar için semboller

8

Kesici Uç Kalınlığı / Height of Cutting Edge

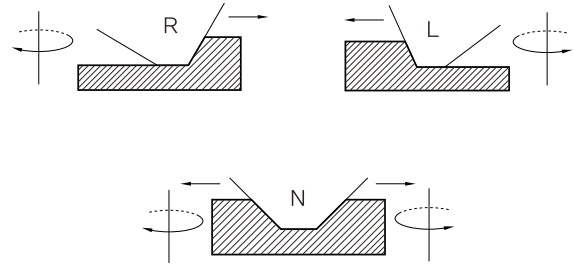
S P K R 12 03 ED 08 S R - MX



9

Kesme Yönü / Cutting Direction

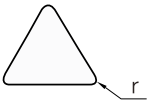
S P K R 12 03 ED 08 S R - MX



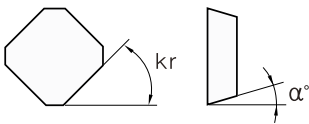
7

Köşe Radyüsü / Nose Radius

S P K R 12 03 ED 08 S R - MX



r		Sembol		r		Sembol	
mm	İnç	mm	İnç	mm	İnç	mm	İnç
00	0	0.0		12	3	1.2	3/64
02		0.2		15		1.5	
04	1	0.4	1/64	16	4	1.6	4/64
05		0.5		24	6	2.4	6/64
08	2	0.8	2/64	32	8	3.2	8/64
10		1.0		40		4.0	



Paralel yüzey	Ayrılma açısı
kr	α°
A - 45°	A - 3° F - 25°
D - 60°	B - 5° G - 30°
E - 75°	C - 7° N - 0°
F - 85°	D - 15° P - 11°
P - 90°	E - 20°
Z - Özel	

10

Frezeleme için Talaş Kırıcı / Chip Breaker for Milling

S P K R 12 03 ED 08 S R - MX



M



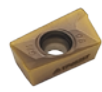
AL



EF



HM90



EM



M2



H2



GM



MJ



EN



PM



S

MILLING

[illegible]

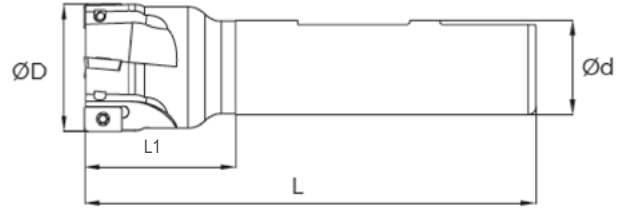
FREZELEME

MILLING

Ürün Görseli Product Image	CP	ISO		P								M				K				N	S	U								Uç Ölçüsü Insert Size					Geometri Geometry																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		Uç Kodu Insert Code	ap (mm)	fn (mm/teeth)	TC0115	TC0125	TC0130	TC0135	TC0140	TC0145	TP1320	TP2325	TP2330	TP2340	TP2350	TC0215	TC0220	TC0225	TC0230	TP0601	TP2415	TP4420	TP4410	TC1620	TC1630	TP2620	TP2625	TP2630	TC2640							TP2630	TC4620	TP4625	TP4630	TP5620																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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FREZELEME TAKIMLARI / MILLING TOOLS

1	2	3	4		5		6	7		8
M	S	G	032	-	03	-	AP	16	-	150
Frezeleme Milling	Tip Type	Uç Modeli Insert Model	Takım Çapı Tool Dia.		Ağız Sayısı Number of Mouths		Uç Kodu Insert Code	Uç Ölçü Insert Dimensions		S : Tam Boy S: Full Size T : Metrik T: Metric
	C : Freze Kafası C: Milling Head	G : Genel G: General								
	S : Saplı Tarama S: Milling Tools									
	T : Vidalı Takım T: Screw Tools									



90°



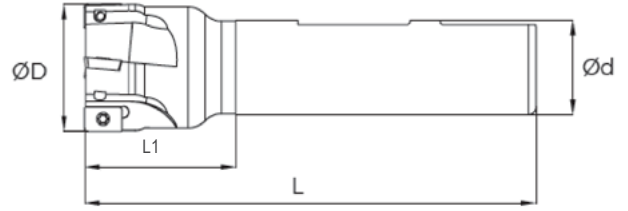
								
Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSG012-01-AP10-120	12	1	40	120	12	APKT 10...	SM2,5X6	T08
MSG012-01-AP10-120-C	12	1	40	120	12			
MSG014-01-AP10-120	14	1	30	120	12			
MSG016-02-AP10-100	16	2	35	100	16			
MSG016-02-AP10-100-C	16	2	35	100	16			
MSG016-02-AP10-120	16	2	40	120	16			
MSG016-02-AP10-120-C	16	2	40	120	16			
MSG016-02-AP10-150	16	2	50	150	16			
MSG016-02-AP10-150-C	16	2	50	150	16			
MSG016-02-AP10-200	16	2	50	200	16			
MSG016-02-AP10-200-C	16	2	50	200	16			
MSG016-02-AP10-250	16	2	60	250	16			
MSG018-02-AP10-100	18	2	30	100	16			
MSG018-02-AP10-100-C	18	2	30	100	16			
MSG018-02-AP10-120	18	2	30	120	16			
MSG018-02-AP10-120-C	18	2	30	120	16			
MSG018-02-AP10-150	18	2	30	150	16			
MSG018-02-AP10-150-C	18	2	30	150	16			
MSG018-02-AP10-200	18	2	30	200	16			
MSG018-02-AP10-200-C	18	2	30	200	16			
MSG018-02-AP10-250	18	2	30	250	16			
MSG020-03-AP10-100	20	3	35	100	20			
MSG020-03-AP10-100-C	20	3	35	100	20			
MSG020-03-AP10-120	20	3	40	120	20			
MSG020-03-AP10-120-C	20	3	40	120	20			
MSG020-03-AP10-150	20	3	50	150	20			
MSG020-03-AP10-150-C	20	3	50	150	20			
MSG020-03-AP10-200	20	3	60	200	20			
MSG020-03-AP10-200-C	20	3	60	200	20			
MSG020-03-AP10-250	20	3	60	250	20			
MSG022-03-AP10-100	22	3	30	100	20			
MSG022-03-AP10-100-C	22	3	30	100	20			
MSG022-03-AP10-120	22	3	30	120	20			
MSG022-03-AP10-120-C	22	3	30	120	20			
MSG022-03-AP10-150	22	3	30	150	20			
MSG022-03-AP10-150-C	22	3	30	150	20			

FREZELEME

MILLING

Saplı Taramalar
Milling Tools

MSG...



90°



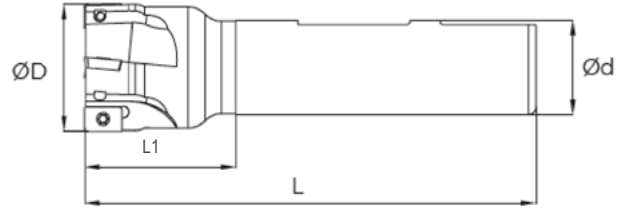
Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MSG022-03-AP10-200	22	3	30	200	20	APKT 10...	SM2,5X7	T08
MSG022-03-AP10-250	22	3	30	250	20			
MSG025-03-AP10-100	25	3	35	100	25			
MSG025-03-AP10-100-C	25	3	35	100	25			
MSG025-03-AP10-120	25	3	40	120	25			
MSG025-03-AP10-120-C	25	3	40	120	25			
MSG025-03-AP10-150	25	3	50	150	25			
MSG025-03-AP10-150-C	25	3	50	150	25			
MSG025-03-AP10-200	25	3	60	200	25			
MSG025-03-AP10-200-C	25	3	60	200	25			
MSG025-03-AP10-250	25	3	60	250	25			
MSG026-03-AP10-150	26	3	30	150	25			
MSG026-03-AP10-200	26	3	30	200	25			
MSG026-03-AP10-250	26	3	30	250	25			
MSG028-04-AP10-150	28	4	30	150	25			
MSG030-04-AP10-100	30	4	30	100	25			
MSG030-04-AP10-100-C	30	4	30	100	25			
MSG030-04-AP10-120	30	4	30	120	25			
MSG030-04-AP10-120-C	30	4	30	120	25			
MSG030-03-AP10-150	30	3	30	150	25			
MSG030-04-AP10-150-C	30	3	30	150	25			
MSG030-04-AP10-200	30	4	30	200	25			
MSG030-04-AP10-200-C	30	4	30	200	25			
MSG030-03-AP10-300	30	3	30	300	25			
MSG032-04-AP10-150	32	4	40	150	25			

FREZELEME

MILLING

Saplı Taramalar
Milling Tools

MSG...



90°



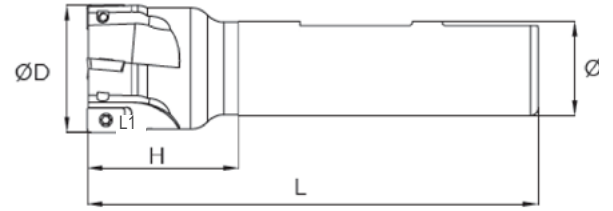
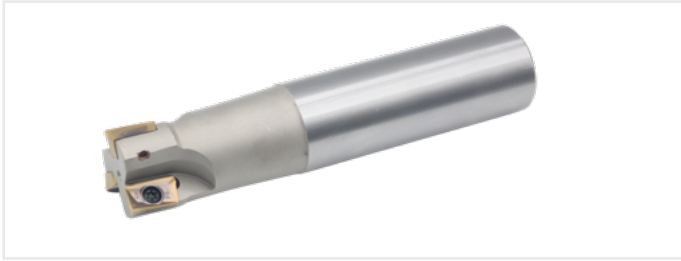
Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)		Uç Insert		Vida Screw		Anahtar Torx Key
MSG032-04-AP10-150-C	32	4	50	150	32	APKT 10...		SM2,5X7		T08	
MSG032-04-AP10-200	32	4	60	200	32						
MSG032-04-AP10-200-C	32	4	60	200	32						
MSG035-04-AP10-100	35	4	40	100	25						
MSG035-04-AP10-100-C	35	4	40	100	25						
MSG035-04-AP10-120	35	4	40	120	25						
MSG035-04-AP10-120-C	35	4	40	120	25						
MSG035-04-AP10-150	35	4	40	150	25						
MSG035-04-AP10-150-C	35	4	40	150	25						
MSG035-04-AP10-200	35	4	40	200	25						
MSG035-04-AP10-200-C	35	4	40	200	25						
MSG035-04-AP10-W32-100	35	4	35	100	32						
MSG035-04-AP10-W32-120	35	4	40	120	32						
MSG035-04-AP10-W32-150	35	4	50	150	32						
MSG040-05-AP10-100	40	5	40	100	25						
MSG040-05-AP10-100-C	40	5	40	100	25						
MSG040-05-AP10-120	40	5	40	120	25						
MSG040-05-AP10-120-C	40	5	40	120	25						
MSG040-05-AP10-150	40	5	40	150	25						
MSG040-05-AP10-150-C	40	5	40	150	25						
MSG040-05-AP10-200	40	5	40	200	25						
MSG040-05-AP10-200-C	40	5	40	200	25						
MSG040-05-AP10-W32-100	40	5	40	100	32						
MSG040-05-AP10-W32-120-C	40	5	40	120	32						
MSG040-05-AP10-W32-150-C	40	5	40	150	32						



90°



								
Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSG016-02-AP11-L100	16	2	35	100	16	APKT 11T3...	SM2,5X6	T08
MSG016-02-AP11-L160	16	2	50	160	16			
MSG016-02-AP11-L160-C	16	2	50	160	16			
MSG016-02-AP11-L200	16	2	60	200	16			
MSG016-02-AP11-L200-C	16	2	60	200	16			
MSG017-02-AP11-L160	17	2	30	160	16			
MSG017-02-AP11-L200	17	2	30	200	16			
MSG017-02-AP11-L250	17	2	30	250	16			
MSG018-02-AP11-L160	18	2	30	160	16			
MSG020-03-AP11-L120	20	3	40	120	20			
MSG020-03-AP11-L160	20	3	50	160	20			
MSG020-03-AP11-L160-C	20	3	50	160	20			
MSG020-03-AP11-L200	20	3	60	200	20			
MSG021-03-AP11-L160	21	3	30	160	20			
MSG021-03-AP11-L200	21	3	30	200	20			
MSG021-03-AP11-L250	21	3	30	250	20			
MSG025-03-AP11-L120	25	3	40	120	25			
MSG025-03-AP11-L160	25	3	50	160	25			
MSG025-03-AP11-L200	25	3	60	200	25			
MSG026-03-AP11-L160	26	3	30	150	25			
MSG026-03-AP11-L200	26	3	30	200	25			
MSG026-03-AP11-L250	26	3	30	250	25			
MSG032-04-AP11-L200	32	4	70	200	32			
							M2.5X7	



90°



Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MSG025-02-AP16-170	25	2	50	170	25	APKT 16...	SM4X9	T15
MSG026-02-AP16-200	26	2	30	200	25			
MSG026-02-AP16-250	26	2	30	250	25			
MSG032-03-AP16-170	32	3	50	170	32			
MSG033-03-AP16-200	33	3	40	200	32			
MSG033-03-AP16-250	33	3	40	250	32			
MSG033-03-AP16-300	33	3	40	300	32			
MSG033-03-AP16-350	33	3	40	350	32			
MSG033-03-AP16-400	33	3	40	400	32			



90°



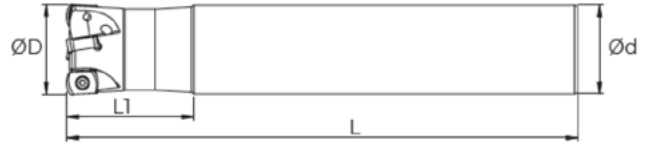
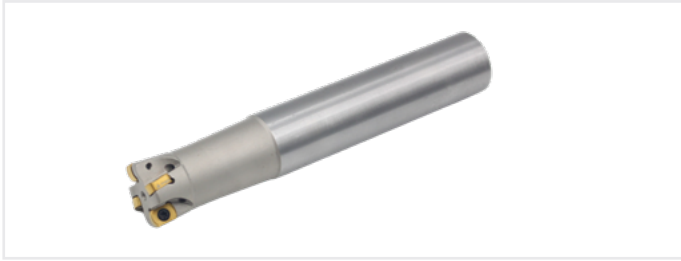
Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MST020-02-3P10-150	20	2	50	150	20	3PKT 10...	SM2,5X7	T08
MST025-03-3P10-150	25	3	50	150	25			
MST032-04-3P10-150	32	4	50	150	32			

FREZELEME

MILLING

Saplı Taramalar
Milling Tools

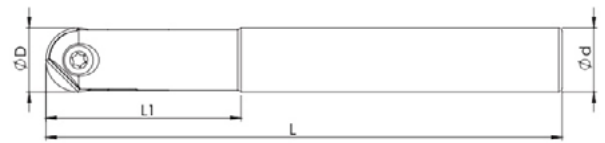
MST...



13°



Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MST016-02-BL06-150	16	2	30	150	15	BLMP 06...	SM2,5X8	T08
MST016-02-BL06-150	16	2	50	150	16			
MST017-02-BL06-100	17	2	30	100	16			
MST017-02-BL06-150	17	2	30	150	16			
MST017-02-BL06-200	17	2	30	200	16			
MST020-03-BL06-150	20	3	50	150	20			
MST021-03-BL06-150	21	3	30	150	20			
MST021-03-BL06-200	21	3	30	200	20			
MST025-04-BL06-150	25	4	50	150	25			
MST026-04-BL06-150	26	4	30	150	25			
MST026-04-BL06-200	26	4	30	200	25			
MST032-05-BL06-200	32	5	60	200	32			
MST033-05-BL06-200	33	5	40	200	32			



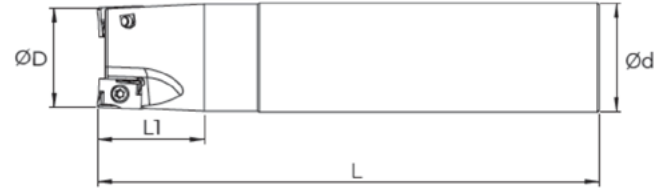
Takım Kodu Order Code	D (mm)	L1 (mm)	L (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MSW08-01-RC08-130	8	36	130	10	RCE 08	SM3xd4,2xT08	T8
MSW010-01-RC10-130	10	30	130	12	RCE 10	SM5x0,5x9	T15
MSW012-01-RC12-150	12	32	130	12	RCE 12	SM5x0,5x10	T20
MSW016-01-RC16-140	16	36	140	16	RCE 16	SM5x0,5x12	
MSW020-01-RC20-200	20	45	160	20	RCE 20	SM4x0,5x17	
MSW025-01-RC25-200	25	45	160	25	RCE 25	SM6x0,75x20	
MSW030-01-RC30-200	30	66	200	32	RCE 30	SM8xd13x3Allen	A3
MSW032-01-RC32-200	32	66	200	32	RCE 32		



90°



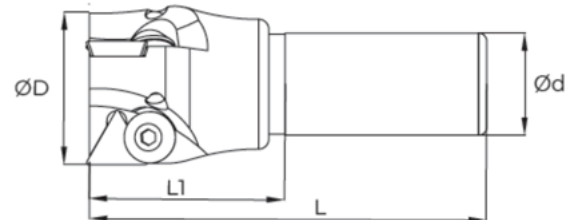
Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MSY016-02-LN03-100-C	16	2	35	100	16	LNGX 03...	SM3x8	T8
MSY016-02-LN03-160-C	16	2	50	160	16			
MSY016-02-LN03-W15-160-C	16	2	30	160	15			
MSY016-02-LN03-W16-110-C	16	2	35	110	16			
MSY016-02-LN03-200-C	16	2	60	200	16			
MSY017-02-LN03-160-C	17	2	30	160	16			
MSY017-02-LN03-200-C	17	2	30	200	16			
MSY018-02-LN03-160-C	18	2	30	160	16			
MSY020-03-LN03-100-C	20	3	50	100	20			
MSY020-03-LN03-110-C	20	3	35	110	20			
MSY020-03-LN03-130-C	20	3	40	130	20			
MSY020-03-LN03-160-C	20	3	50	160	20			
MSY020-03-LN03-200-C	20	3	60	200	20			
MSY020-03-LN03-220-C	20	3	60	220	20			
MSY021-03-LN03-160-C	21	3	30	160	20			
MSY021-03-LN03-200-C	21	3	30	200	20			
MSY022-03-LN03-160-C	22	3	30	160	20			
MSY022-03-LN03-180-C	22	3	30	180	20			
MSY025-03-LN03-150-C	25	4	50	150	25			
MSY025-04-LN03-160-C	25	4	50	160	25			
MSY025-04-LN03-180-C	25	4	50	180	25			
MSY026-02-LN03-300	26	2	30	300	25			
MSY026-04-LN03-160-C	26	4	30	160	25			
MSY026-04-LN03-180-C	26	4	30	180	25			
MSY028-04-LN03-160-C	28	4	30	160	25			
MSY028-04-LN03-200-C	28	4	30	200	25			
MSY028-05-LN03-160-C	28	5	30	160	25			
MSY028-05-LN03-180-C	28	5	30	180	25			
MSY032-05-LN03-160-C	32	5	50	160	32			
MSY032-05-LN03-200-C	32	5	60	200	32			



90°



Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MSK014-01-LN10-090	14	1	30	90	16	LNMX 10...	SM3X8	T10
MSK016-01-LN10-090	16	1	35	90	16			
MSK018-02-LN10-090	18	2	30	90	16			
MSK018-02-LN10-120	18	2	30	120	16			
MSK020-02-LN10-100-C	20	2	30	150	18			
MSK020-02-LN10-150-C	20	2	35	100	20			
MSK020-02-LN10-150-C	20	2	50	150	20			
MSK025-03-LN10-115-C	25	3	30	150	24			
MSK025-02-LN10-115-C	25	2	35	115	25			
MSK025-03-LN10-150-C	25	3	35	115	25			
MSK025-03-LN10-150-C	25	3	50	150	25			
MSK026-03-LN10-200-C	26	3	30	200	25			
MSK032-03-LN10-125-C	32	3	40	125	32			
MSK032-04-LN10-125-C	32	4	40	125	32			
MSK032-04-LN10-200-C	32	4	60	200	32			
MSK032-04-LN10-150-C	32	4	50	150	32			
MSK040-04-LN10-130-C	40	4	40	130	32			
MSK040-05-LN10-130-C	40	5	40	130	32			
MSK050-05-LN10-135-C	50	5	40	135	32			



90°



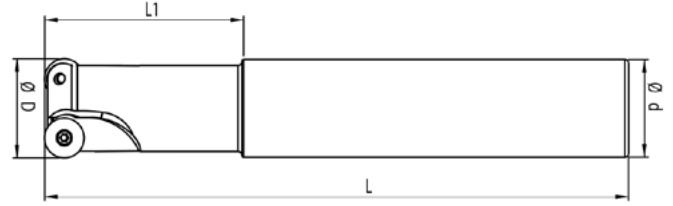
Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MSG035-02-TP16-100	35	2	40	100	25	TPKN 16...	SM6X0,75	A4
MSG040-03-TP16-100	40	3	40	100	25			
MSG050-03-TP16-100	50	3	40	100	25			

FREZELEME

MILLING

MSG...

Saplı Taramalar
Milling Tools



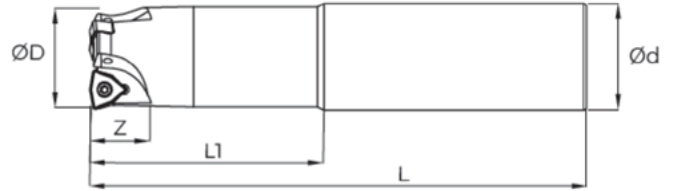
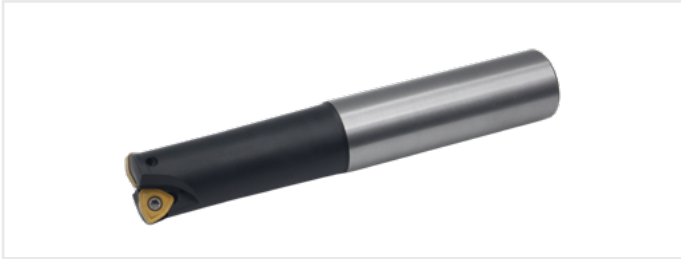
									
Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key	
MSG016-02-RD0803-120-C	16	2	40	120	16	RD...0803	SM3X6	T10	
MSG016-02-RD0803-150-C	16	2	40	150	16				
MSG017-02-RD0803-150-C	17	2	30	150	16				
MSG020-03-RD0803-150-C	20	3	50	150	20				
MSG020-02-RD1003-120-C	20	2	40	120	20	RD...1003	SM3X8	T15	
MSG020-02-RD1003-150-C	20	2	50	150	20				
MSG020-02-RD1003-200-C	20	2	50	200	20				
MSG025-02-RD1003-150-C	25	2	50	150	25				
MSG025-02-RD1003-200-C	25	2	60	200	25				
MSG032-02-RD1003-250-C	32	2	100	250	32				
MSG032-03-RD1003-150-C	32	3	60	150	32				
MSG032-03-RD1003-200-C	32	3	60	200	32				
MSG032-03-RD1003-250-C	32	3	100	250	32				
MSG020-02-RD10T3-150-C	20	2	50	150	20				RD...10T3
MSG025-02-RD10T3-150-C	25	2	50	150	25				
MSG025-02-RD10T3-200-C	25	2	70	200	25				
MSG032-02-RD10T3-250-C	32	2	100	250	32				
MSG032-03-RD10T3-250-C	32	3	100	250	32				
MSG032-03-RD10T3-150-C	32	3	70	150	32				
MSG032-03-RD10T3-160-C	32	3	50	160	32				
MSG040-02-RD10T3-250-C	40	2	55	250	32				
MSG040-04-RD10T3-150-C	40	4	55	150	32				
MSG040-04-RD10T3-250-C	40	4	55	250	32				
MSG025-02-RD1204-150-C	25	2	50	150	25	RD...1204			
MSG025-02-RD1204-200-C	25	2	40	200	25				
MSG032-03-RD1204-150-C	32	3	30	150	25				
MSG032-03-RD1204-150-C	32	3	60	150	32				
MSG032-03-RD1204-200-C	32	3	60	200	25				
MSG032-03-RD1204-200-C	32	3	40	200	32				
MSG040-04-RD1204-150-C	40	4	55	150	25				
MSG040-04-RD1204-150-C	40	4	55	150	32				



14°



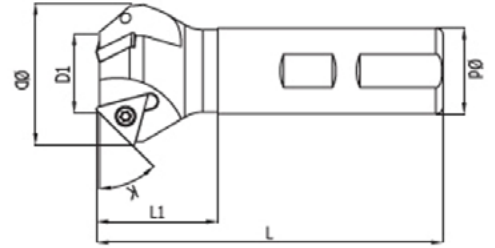
Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MSK016-02-WN06-150	16	2	70	150	16	WNMU 06...	SM2,5X8	T08
MSK017-02-WN06-150	17	2	25	150	16			
MSK020-03-WN06-150	20	3	70	150	20			
MSK021-03-WN06-150	21	3	25	150	20			



14°



Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MSK025-02-WN09-150	25	2	70	150	25	WNGX 09...	SM3X8	T10
MSK032-03-WN09-150	32	3	70	150	32			

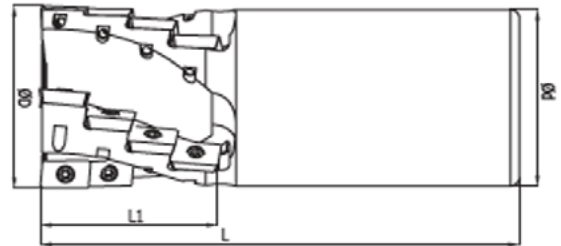
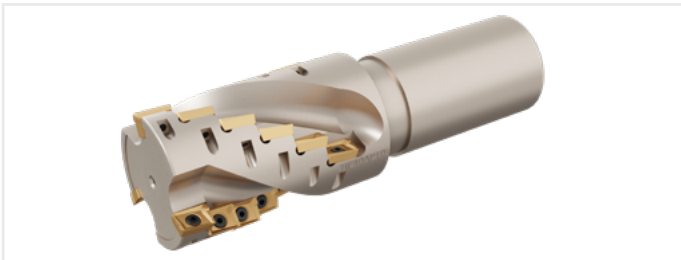


45°

60°



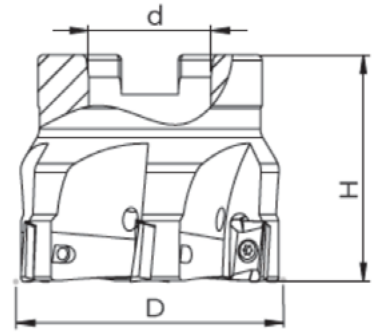
Takım Kodu Order Code	K	D	Z	D1	d	L	L1	Uç Insert
MSG015-01-TC11-100	45°	15	1	4	16	L100	35	TCMT 11..
MSG025-02-TC11-120	45°	25	2	14	16	L120	35	
MSG030-02-TC11-100	45°	30	2	16	16	L100	35	
MSG035-03-TC11-100	45°	35	3	21	16	L100	35	
MSG023-03-TC16-100	45°	23	3	5	16	L100	35	TCMT16..
MSG031-01-TC16-100	45°	31	1	10	16	L100	35	
MSG035-02-TC16-100	45°	35	2	14	20	L100	35	
MSG043-02-TC16-100	45°	43	2	22	25	L100	35	
MSG050-03-TC16-100	45°	50	3	30	25	L100	35	
MSG020-03-TC16-100	60°	20	3	6	16	L100	35	
MSG035-01-TC16-100	60°	35	1	20	20	L100	35	
MSG040-02-TC16-100	60°	40	2	24	25	L100	35	



90°



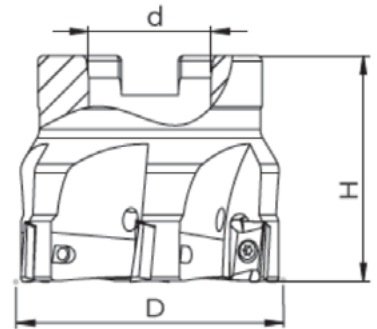
Takım Kodu Order Code	D	Z	L	L1	d	Uç Insert
MSG020-06-AP10-110-C	20	6	110	27	20	AP10..
MSG025-08-AP10-120-C	25	8	120	36	25	
MSG032-15-AP10-120-C	32	15	120	45	32	
MSG040-18-AP10-130-C	40	18	130	54	32	



90°



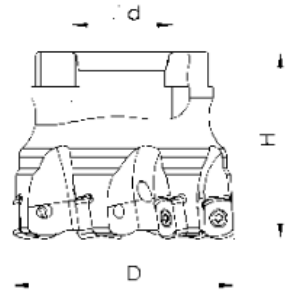
Takım Kodu Order Code	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MCG040-05-AP10	40	5	45	16	APKT 10...	SM2,5X7	T08
MCG040-05-AP10-C	40	5	45	16			
MCG050-06-AP10	50	6	45	22			
MCG050-06-AP10-C	50	6	45	22			
MCG063-07-AP10	63	7	45	22			
MCG063-07-AP10-C	63	7	45	22			
MCG080-08-AP10	80	8	52	27			
MCG080-08-AP10-C	80	8	52	27			
MCG100-09-AP10	100	9	52	32			
MCG100-09-AP10-C	100	9	52	32			



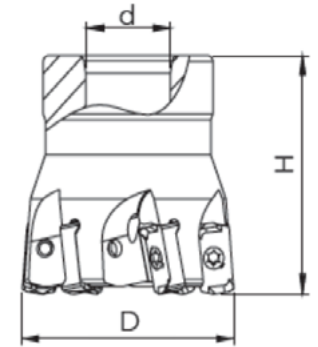
90°



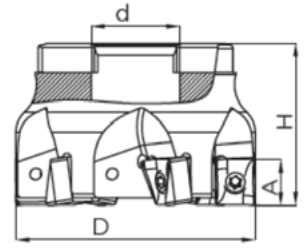
Takım Kodu Order Code	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MCG040-05-AP11	40	5	45	16	APKT 11T3...	SM2,5X7	T08
MCG050-06-AP11	50	6	50	22			
MCG063-07-AP11	63	7	50	22			
MCG040-04-AP16	40	4	40	16	APKT 16...	SM4X12	T15
MCG050-05-AP16	50	5	40	22			
MCG063-05-AP16	63	5	40	22			
MCG080-07-AP16	80	7	50	27			
MCG100-08-AP16	100	8	50	32			
MCG125-09-AP16	125	9	62	40			



Takım Kodu Order Code	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MCT040-06-BL06	40	6	40	16	BLMP 06...	SM2,5X7	T08
MCT050-07-BL06	50	7	50	22			
MCT063-08-BL06	63	8	50	22			



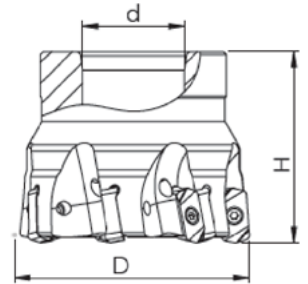
Takım Kodu Order Code	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MCY040-06-LN03	40	6	40	16	LNGX 03...	SM3X8	T08
MCY050-06-LN03	50	6	50	22			
MCY050-07-LN03	50	7	50	22			
MCY052-06-LN03	52	6	50	22			
MCY052-07-LN03	52	7	50	22			



90°



Takım Kodu Order Code	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MCK040-04-LN10	40	4	40	16	LNMX 10...	SM3X10	T10
MCK040-05-LN10	40	5	40	16			
MCK050-06-LN10	50	6	40	22			
MCK050-04-LN15	50	4	40	22	LNMX 15...	SM4X14	T15
MCK063-06-LN15	63	6	40	22			
MCK080-07-LN15	80	7	52	27			
MCK100-08-LN15	100	8	52	32			
MCK125-10-LN15	125	10	62	40			
MCK160-12-LN15	160	12	62	40			



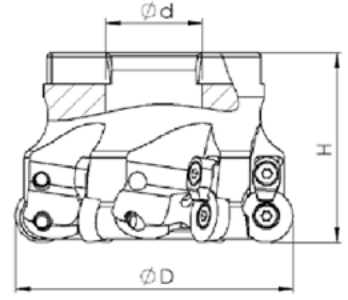
Takım Kodu Order Code	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MCU040-06-LN03	40	6	40	16	LNMU 03...	SM2,5X8	T08
MCU050-07-LN03	50	7	40	22			
MCU052-07-LN03	52	7	40	22			
MCU063-08-LN03	63	8	40	22			

FREZELEME

FACE MILLING

MCG...

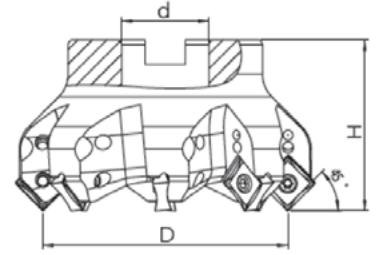
Freze Kafaları
Milling Tools



																					
Takım Kodu Order Code	D (mm)		H (mm)	d (mm)	Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key												
MCG040-04-RD1003	40	4	40	16	RD..1003	SM3,5X10	CCK14M	SM3,5X8	T15												
MCG050-05-RD1003	50	5	46	22																	
MCG063-06-RD1003	63	6	50	22																	
MCG080-07-RD1003	80	7	52	27																	
MCGI 00-08-RD1003	100	8	52	32																	
MCG050-05-RD10T3	50	5	46	22	RD..10T3																
MCG063-06-RD10T3	63	6	40	22																	
MCG080-07-RD10T3	80	7	50	27																	
MCG040-04-RD1204	40	4	40	16																	
MCG050-05-RD1204	50	5	46	22	RD..1204																
MCG063-06-RD1204	63	6	50	22																	
MCG080-07-RD1204	80	7	52	27																	
MCG100-08-RD1204	100	8	52	32																	
MCG040-04-RD12T3	40	4	40	16																	
MCG050-05-RD12T3	50	5	46	22	RD..12T3																
MCG052-05-RD12T3	52	5	46	22																	
MCG063-06-RD12T3	63	6	50	22																	
MCG080-07-RD12T3	80	7	52	27																	
MCG100-08-RD12T3	100	8	52	32																	
MCG125-09-RD12T3	125	9	62	40																	
MCG160-10-RD12T3	160	10	62	40																	
MCG160-10-RD12T3	160	12	62	40																	
MCG050-04-RD1604	50	4	50	22	RD..1604	SMSX12	CTP11M	SM4X11	T20												
MCG052-04-RD1604	52	4	50	22																	
MCG063-04-RD1604	63	4	50	22																	
MCG066-05-RD1604	66	5	50	27																	
MCG080-05-RD1604	80	5	52	27																	
MCG100-06-RD1604	100	6	52	32																	
MCG125-07-RD1604	125	7	62	40																	
MCG160-08-RD1604	160	8	62	40																	
MCG180-11-RD1604	180	11	62	60																	
MCG200- 12-RD1604	200	12	62	60																	



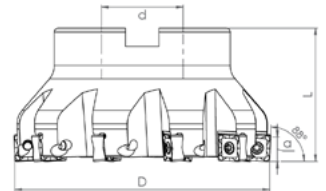
45°



Takım Kodu Order Code	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MCK050-05-SN12-45	50	5	40	22	SNMX 1206...	SM4X12	T15
MCK063-06-SN12-45	63	6	40	22			
MCK080-08-SN12-45	80	8	50	27			
MCK100-10-SN12-45	100	10	50	32			
MCK125-11-SN12-45	125	11	62	40			
MCK160-12-SN12-45	160	12	62	40			



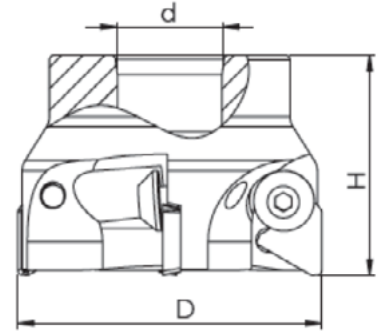
88°



Takım Kodu Order Code	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MCK050-05-SN12-88	50	5	40	22	SNMX 1206... SNMX1205...*	SM4,5X11	T20
MCK063-06-SN12-88	63	6	40	22			
MCK080-08-SN12-88	80	8	50	27			
MCK100-10-SN12-88	100	10	50	32			
MCK125-11-SN12-88	125	11	62	40			
MCK160-12-SN12-88	160	12	62	40			
MCK160-14-SN12-88	160	14	62	40			
MCK200-14-SN12-88	200	14	62	60			
MCK250-18-SN12-88	250	18	62	60			

* SNMX1205 uçlar için SM4x12x6 cıvata kullanınız.

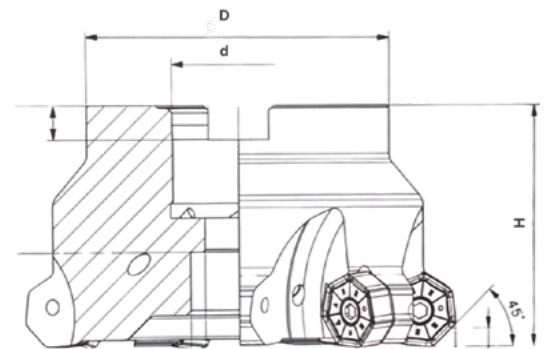
* Use SM4x12x6 screws for SNMX1205 inserts.



90°



Takım Kodu Order Code	D (mm)		H (mm)	d (mm)			
Uç Insert	Vida Screw	Anahtar Torx Key					
MCG050-03-TP16	50	3	41	22	TPKN 16...	SM6X0,75	A4
MCG063-04-TP16	63	4	48	22			
MCG080-05-TP16	80	5	52	32			
MCG100-06-TP16	100	6	52	32			
MCG063-03-TP22	63	3	48	22	TPKN 22...	SM8X1	A5
MCG080-04-TP22	80	4	52	32			
MCG100-05-TP22	100	5	52	32			
MCG125-06-TP22	125	6	62	40			
MCG160-07-TP22	160	7	62	40			
MCG200-08-TP22	200	8	62	60			
MCG250-10-TP22	250	10	62	60			



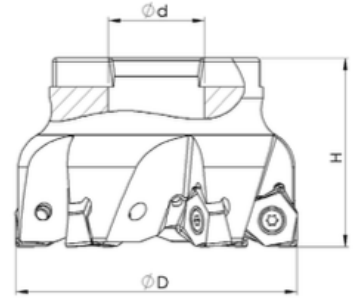
45°



Takım Kodu Order Code	D (mm)	Z	H (mm)	d (mm)			
Uç Insert	Vida Screw	Anahtar Torx Key					
MCA050-04-XN07	50	4	40	22	XNMU0705	SM4X10	T15
MCA063-05-XN07	63	5	40	22			
MCA080-06-XN07	80	6	50	27			
MCA100-07-XN07	100	7	50	32			
MCA125-08-XN07	125	8	55	40			
MCA160-10-XN07	160	10	55	40			



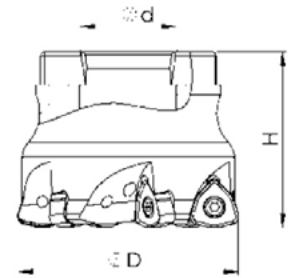
90°



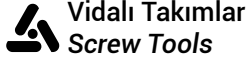
Takım Kodu Order Code	D (mm)		H (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MCY050-04-WN08	50	4	40	22	WNMU 0806..	SM5X12	T20
MCY052-04-WN08	52	4	40	22			
MCY063-04-WN08	63	4	40	22			
MCY063-05-WN08	63	5	40	22			
MCY063-06-WN08	63	6	52	22			
MCY080-05-WN08	80	5	45	27			
MCY080-06-WN08	80	6	45	27			
MCY100-07-WN08	100	7	50	32			
MCY125-08-WN08	125	8	50	40			
MCY160-10-WN08	160	10	62	40			
MCY200-12-WN08	200	12	62	60			
MCY250-14-WN08	250	14	62	60			



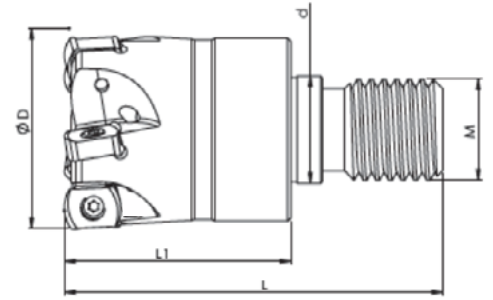
14°



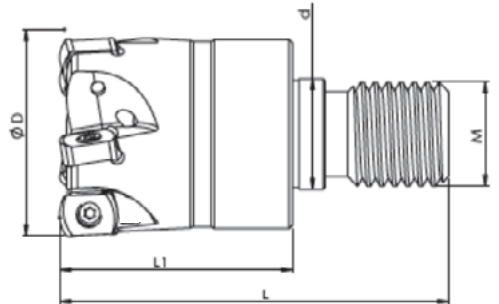
Takım Kodu Order Code	D (mm)		H (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MCK040-03-WN09	40	3	40	16	WNGX 09T3..	SM3X10	T10
MCK040-04-WN09	40	4	40	16			
MCK050-05-WN09	50	4	40	22			
MCK052-04-WN09	52	4	40	22			
MCK052-05-WN09	52	5	40	22			
MCK052-06-WN09	52	6	40	22			
MCK063-05-WN09	63	5	50	22			
MCK066-06-WN09	66	6	50	22			



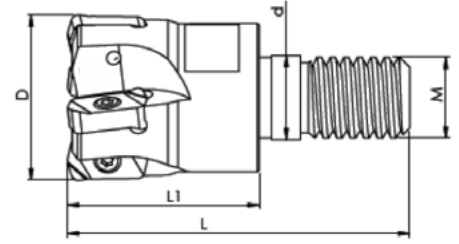
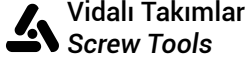
13°



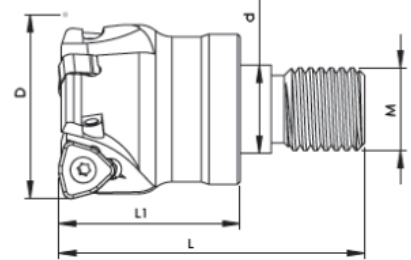
Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MTT020-03-BL06-M10	20	3	31	50	10,5	M10	BLMP 06...	SM2,5X7	T08
MTT025-04-BL06-M12	25	4	38	60	12,5	M12			
MTT032-05-BL06-M16	32	5	36	60	17	M16			
MTT040-06-BL06-M16	40	6	36	60	17	M16			
MTT042-06-BL06-M16	42	6	36	60	17	M16			



Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MTY017-02-LN03-M8	17	2	33	50	8,5	M8	LNGX 03...	SM3X8	T08
MTY020-03-LN03-M10	20	3	31	50	10,5	M10			
MTY025-04-LN03-M12	25	4	29	51	12,5	M12			
MTY032-05-LN03-M16	32	5	39	63	17	M16			
MTY035-05-LN03-M16	35	5	39	63	17	M16			
MTY040-06-LN03-M16	40	6	39	63	17	M16			
MTY042-06-LN03-M16	42	6	39	63	17	M16			



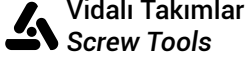
Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MTU020-03-LN03-M10	20	3	31	50	10,5	M10	LNMU 03...	SM2,5X7	T08
MTU025-04-LN03-M12	25	4	29	51	12,5	M12			
MTU032-04-LN03-M16	32	4	39	63	17	M16			
MTU032-05-LN03-M16	32	5	39	63	17	M16			
MTU035-05-LN03-M16	35	5	39	63	17	M16			
MTU040-06-LN03-M16	40	6	39	63	17	M16			
MTU042-06-LN03-M16	42	6	39	63	17	M16			
MTU042-05-LN03-M16	42	5	39	63	17	M16			



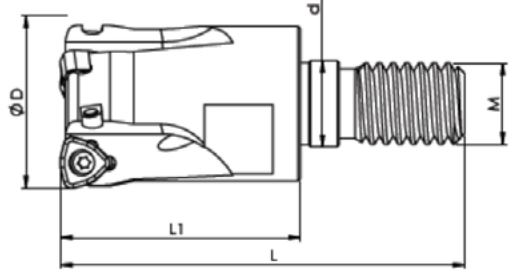
Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MTK025-02-WN09-M12	25	2	28	50	12,5	M12	WNGX 09T3..	SM3X10	T10
MTK032-03-WN09-M16	32	3	36	60	17	M16			
MTK035-03-WN09-M16	35	3	36	60	17	M16			
MTK035-04-WN09-M16	35	4	36	60	17	M16			
MTK040-04-WN09-M16	40	4	36	60	17	M16			
MTK042-04-WN09-M16	42	4	36	60	17	M16			

FREZELEME

MILLING



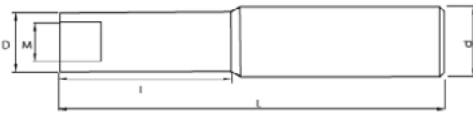
MTK...
ET...



14°



Takım Kodu Order Code	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MTK016-02-WN06-M08	16	2	25	42	8,5	M8	WNGX 06...	SM2,5X8	T08
MTK020-03-WN06-M10	20	3	31	50	10,5	M10			
MTK025-03-WN06-M12	25	3	38	60	12,5	M12			
MTK025-04-WN06-M12	25	4	38	60	12,5	M12			
MTK032-05-WN06-M16	32	5	36	60	17	M16			
MTK035-05-WN06-M16	35	5	36	60	17	M16			



Takım Kodu Order Code	D	d	M	L	I
ET D15 C16 M08 L120-H	15	16	8	120	40
ET D18 C20 M10 L120-H	18	20	10	120	60
ET D18 C20 M10 L170-H	18	20	10	170	90
ET D24 C25 M12 L160-H	24	25	12	160	80
ET D24 C25 M12 L200-H	24	25	12	200	100
ET D24 C25 M12 L250-H	24	25	12	250	150
ET D31 C32 M16 L160-H	31	32	16	160	80
ET D31 C32 M16 L200-H	31	32	16	200	100
ET D31 C32 M16 L250-H	31	32	16	250	150



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