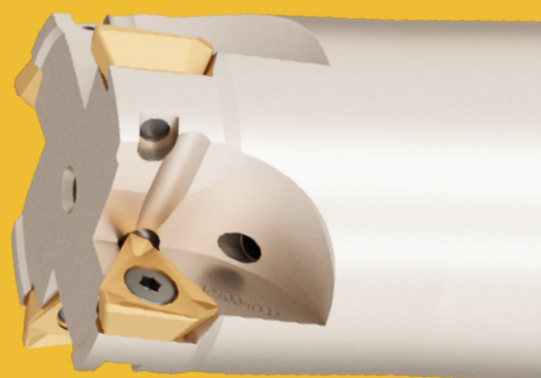




FREZELEME

MILLING

2026 | CATALOG

www.euroloy.com

EUROLOY
CARBIDE TOOLS

İçindekiler

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S

P

K

R

12

1

Kesici Uç Şekli
Insert Shape

2

Ayrılma Açısı
Relief 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 - NN

A



C



D



H



L



O



R



S



T



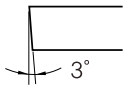
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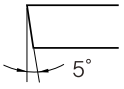
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2

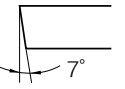
Ayrılma Açısı / Relief Angle

S P K R 12 03 ^{ED}08 S R - NN

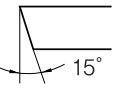
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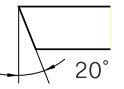
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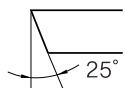
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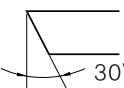
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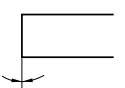
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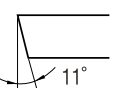
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G



N



P

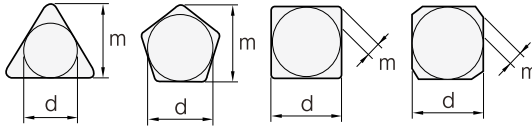
3

Tolerans / Tolerance

S P K R 12 03 ^{ED}08 S R - NN

d: İç Teğet Çapı / inscribed circle diameter)

t: Kalınlık / thickness

m: Resimdeki Figür
Fig. in the PictureC,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)
(mm)

Class Sınıf	d	m	t
A	±0.025	±0.005	±0.025
C	±0.025	±0.013	±0.025
H	±0.013	±0.013	±0.025
E	±0.025	±0.025	±0.025
G	±0.025	±0.025	±0.13
J	±0.05-±0.15	±0.005	±0.025
K	±0.05-±0.15	±0.013	±0.025
L	±0.05-±0.15	±0.025	±0.025
M	±0.05-±0.15	±0.08-±0.20	±0.13
U	±0.08-±0.25	±0.13-±0.38	±0.13

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

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

d	Tolerans d Tolerance d	Tolerans m 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 - NN

A



B



C



F



G



H



J



M



N



Q



R



T



U



W



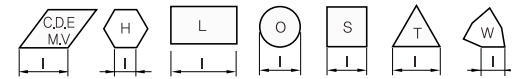
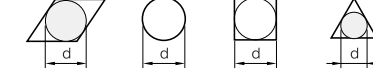
X

5

Kesme Kenar Uzunluğu / Cutting Edge Length

S P K R 12 03 ^{ED}08 S R - NN

Metrik Sistem / Metric System

İnç Sistem
Inch System

- İç teğet çapı 1/4"ten küçük olan kesici uçlar için 1/32" değeri kullanılmalıdır.
- İç teğet çapı 1/4"ten büyük olan kesici uçlar için 1/8" değeri kullanılmalıdır.
- Use the 1/32" value for inserts with an inscribed circle (IC) smaller than 1/4".
- Use the 1/8" value for inserts with an inscribed circle (IC) of 1/4" or larger.

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

"Metrik" ve "İnç" Sistemine Göre Tablo / Table According to the "Metric" and "Inch" Systems

Metrik ve İnç Ölçü Sistemleri Tablosu / Table According To The "Metric" and "Inch" Systems	6	9	11	16	22	27	33	44
İç Teğet Çember Çapı Internal tangent diameter	3	5	6	9	12	15	19	25
İnç Sistemi Inch System	4	6	7	11	15	19	23	31
İnç Sistemi Inch System	3	5	6	9	12	16	19	25
İnç Sistemi Inch System	5/32"	7/32"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
İnç Sistemi Inch System	5	7	2 (8)	3	4	5	6	8

03

**ED
08**

S

R

NN

6

Kesici Uç Kalınlığı
Height of Cutting Edge

7

Köşe Radyüsü
Nose Radius (Nose R)

8

Kenar Şekli
Edge Shape

9

Kesme Yönü
Cutting Direction

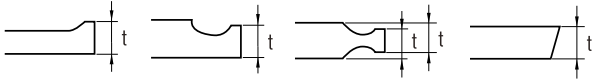
10

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 - NN



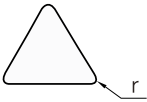
Sembol / Symbol		Kesici Kenar Kalınlığı (t) Cutting edge thickness (t)	
Metrik / Metric	İnç / Inch	mm	İnç / Inch
01	1 (2)	1.59	1/16
T0	1.125	1.79	9/128
T1	1.2	1.98	5/64
02	1.5 (3)	2.38	3/32
T2	1.75	2.78	7/64
03	2	3.18	1/8
T3	2.5	3.97	5/32
04	3	4.76	3/16
05	3.5	5.56	7/32
06	4	6.35	1/4
07	5	7.94	5/16
09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

Küçük ölçülü kesici uçlar için semboller
symbols for small size inserts

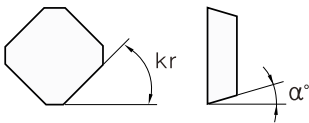
7

Köşe Radyüsü / Nose Radius

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



r		Sembol / Symbol		r		Sembol / Symbol	
mm	Inch	mm	Inch	mm	Inch	mm	Inch
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	

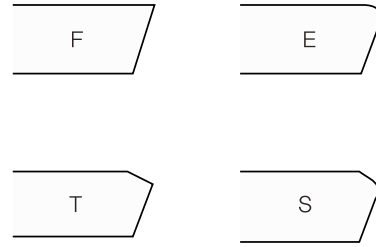


Paralel Yüzey / Parallel surface		Boşluk Açısı / Relief Angle	
kr		a°	
A - 45°		A - 3°	F - 25°
D - 60°		B - 5°	G - 30°
E - 75°		C - 7°	N - 0°
F - 85°		D - 15°	P - 11°
P - 90°			
Z - Special			

8

Kenar Şekli / Edge Shape

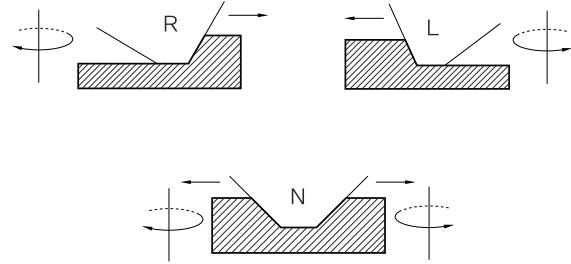
S P K R 12 03 ED 08 **S** R - NN



9

Kesme Yönü / Cutting Direction

S P K R 12 03 ED 08 S **R** - NN



10

Frezeleme için Talaş Kırıcı / Chip Breaker for Milling

S P K R 12 03 ED 08 S R - **NN**



M

AL

NN

HM90



F57

M2

H2

GM



AL

EN

PM1

GH

FREZELEME KALİTELERİ / MILLING GRADES

Kalite Grade	ISO	Kaplama Coating	Stok Durumu Stock Availability	Özellikler Features
TC0135	P35	CVD	Δ	Çeliğin yüksek hızda frezelenmesi için CVD kaplamalı kalite. İyi aşınma direnci ve tokluğu bir araya getirerek talaşlanma ve kenar kırılmasını önler. Hem ıslak hem de kuru koşullarda kullanılabilir. <i>CVD coated grade for high speed milling of steel. It combines good wear resistance and toughness to avoid chipping and edge breakage. Can be used in both wet and dry conditions.</i>
TC0140	P40	CVD	Δ	Darbeli kesme koşullarında büyük kesme derinliğinde, orta ve yüksek hızda çelik frezeleme için uygundur. <i>Suitable for big cutting depth, medium to high speed milling of steel under unstable cutting conditions.</i>
TC2215	K15	CVD	●	Dökme demirin yüksek hızlı frezelenmesi için CVD kaplamalı kalite. Daha yüksek kesme parametreleri için uygundur ve istikrarlı performans ve güvenilirlik sağlar. Finiş, yarı finiş ve kaba frezelemede kullanılabilir. <i>CVD coated grade for high speed milling of cast iron. Suitable for higher cutting parameters and ensures stable performance and reliability. Can be used from finish, semi-finish to rough milling.</i>
TC2225	K25	CVD	○	Orta ve yüksek kesme hızlarında gri dökme demirin yarı finisaj ve kaba frezeleme işlemleri için uygundur. Daha uzun takım ömrü elde etmek için kuru kesme koşullarında kullanılması önerilir. <i>Suitable for semi-finish milling and rough milling of gray cast iron at medium and high cutting speed. Recommended for dry cutting conditions to achieve longer tool life.</i>
TP2125	P25 M25	PVD	●	Çelik frezeleme için ilk tercihtir. Stabil çalışma koşullarında çeliğin kaba ve finiş işlemlerinde kullanılması önerilir. Küçük kesme genişliği ve yapışkan malzemelerde hem kuru hem de ıslak işleme için uygundur. <i>First choice for steel milling. It is recommended to be used in rough to finish machining of steel under stable working conditions, good for both dry and wet machining with small cutting width, complex tool path and sticky materials.</i>
TP2135	P35 M35	PVD	○	Yüksek tokluk gerektiğinde orta sertlikteki alt tabaka ile TP2125'e alternatif kalite. <i>Supplementary grade to TP2125 with medium hardness substrate when high toughness is required.</i>
TP2335	M35	PVD	○	Darbeli işleme koşullarında orta ve düşük hızda paslanmaz çelik ve çeliğin frezelenmesi için uygundur. <i>Suitable for milling stainless steel and steel at medium and low speed under unstable machining conditions.</i>
TP2345	P35 M35	PVD	○	Ultra kalın PVD kaplamalı kalite, paslanmaz çelik frezeleme için ilk tercihtir. Darbeli işleme koşullarında paslanmaz çeliğin kaba frezelenmesi için uygundur. <i>Ultra-thick PVD coated grade is the first choice for stainless steel milling. It is suitable for rough milling of stainless steel under unstable machining conditions.</i>
TP2225	K25	PVD	○	Orta ve düşük kesme hızlarında gri dökme demir ve sfero dökme demirin yarı finiş ve kaba frezelemesi için uygundur. Hem kuru hem de ıslak koşullarda mükemmel takım ömrüne sahiptir. <i>Suitable for semi-finish and rough milling of gray cast iron and nodular cast iron at medium and low cutting speed. Has excellent tool life under both dry and wet conditions.</i>

FREZELEME KALİTELERİ / MILLING GRADES

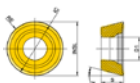
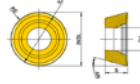
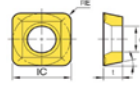
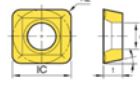
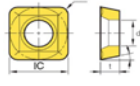
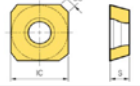
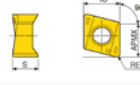
Kalite Grade	ISO	Kaplama Coating	Stok Durumu Stock Availability	Özellikler Features
TP4415	S15	PVD	●	Karbür alt tabaka hem tokluk hem de kırmızı sertlik özelliklerine sahiptir ve dengesiz işleme koşullarında paslanmaz çeliğin kaba frezelenmesinde kullanılır. Düşük kesme hızında kullanılması önerilir. <i>Carbide substrate has both toughness and red hardness characteristics and is suitable for rough milling of stainless steel under unstable machining conditions. Milling at low cutting speed can achieve longer tool life.</i>
TP4405	H15	PVD	Δ	Siparişe üstüne üretilen bu kalite, sertleştirilmiş çeliğin frezelenmesine uygundur. Kaba ve finiş frezelemede kullanılabilir ve çoğu operasyonda ihtiyaçlarınızı karşılar. <i>Produced-per-order grade, suitable for milling hardened steel. Can be used in rough and finish milling, meeting the needs of most conditions.</i>
TP2620	P20 M20 K20 S15 H15	PVD	●	Mükemmel aşınma direnci ve stabiliteye sahip universal kalite. Çelik, paslanmaz çelik ve dökme demirin frezelenmesi için uygundur. Ayrıca süper alaşımların ve HRC45-55 sertleştirilmiş malzemelerin yarı finiş frezelenmesi için de uygundur. <i>Universal grade with excellent wear resistance and stability. Suitable for milling of steel, stainless steel and cast iron. Also applicable for semi-finishing of superalloys and semi-finish milling of HRC45-55 hardened materials.</i>
TP2630 TP4630	P30 M30 K40 S25 H25	PVD	●	Çelik ve paslanmaz çeliğin kaba, yarı finisaj ve hafif kesintili frezeleme işlemleri için uygun universal kalite. <i>Universal grade applicable for rough, semi-finish and light interrupted milling of steel and stainless steel</i>
TP2640	P45 M45 K45 S25 H25	PVD	Δ	Yüksek tokluk gerektiğinde TP2630'a ek kalite. <i>Supplementary grade to TP2630 when high toughness is required.</i>
TP2320 TP1320	P20 M20	PVD	●	Mükemmel aşınma direnci ve tokluğa sahip, paslanmaz çeliğin frezelenmesinde ilk tercihtir. Ayrıca çeliğin genel işlenmesinde de iyi sonuç verir. <i>Submicron grade with excellent wear resistance and toughness, first choice for continuous milling of stainless steel. Also works well for general machining of steel.</i>
TN7501	N15	-	●	Alüminyum alaşımlarının frezelenmesinde kullanılan, keskin kesici kenarlı, kaplamasız kalite. <i>Uncoated grade combined with sharp cutting edge, used in aluminum alloy milling.</i>

Ürün Görseli Product Image	Uç Kodu Insert Code	No. of Edges	Vc m/min	KAPR*	ap (mm)	fz (mm/ft)	P		M			K		N		S		H		U		Uç Ölçüsü Insert Size								Geometri Geometry	
							TP2125	TP2135	TD0135	TD0140	TP1320	TP2320	TP2335	TP2345	TC2215	TC2225	TP2225	TN7501	TP4415	TP4405	TP2620	TP3620	TP4620	TP2630	TP4630	TP2640	IC	A P M X	S		RE
	ADKT 1505PDTR-NN	2	90	0.5-14	0.18-0.32																●	17.75	15	5.63	0.96				15°		
	APKT 1003PDR-HM90	2	90	0.5-6.5	0.13-0.26										○						●	11.40	9.8	3.50	0.80	6.76	1.4	2.8	11°		
	APKT 1003PDER-IT	2	90	0.1-8.0	0.1-0.2	○	●								○							11.40	10.8	3.8	0.8	6.65	1.1	2.8	11°		
	APKT 1705PER-DT	2	90	0.5-15	0.18-0.4	○	○				○		○								●	18.50	16.5	5.60	0.8	10.74	2.2	4.4	11°		
	APKT 170516R-DT	2	90	0.5-15	0.18-0.4	○								○								18.50	16.8	5.60	1.6	10.74	1.7	4.4	11°		
	APKT 1003PDFR-AL	2	90	0.5-9	0.13-0.26										●																
	APKT 1135PDFR-AL	2	90	0.5-10	0.13-0.22										○																
	APKT 160402-AL	2	90	0.5-15	0.08-0.20										●							16.4		4.76	0.2	9.52		4.4			
	APKT 160404-AL	2	90	0.5-15	0.10-0.22										●							16.4		4.76	0.4	9.52		4.4			
	APKT 1604PDFR-AL	2	90	0.5-15	0.15-0.32										○							16.4		4.76	0.8	9.52		4.4			
	APKT 11T304-PM1	2	90	0.5-10	0.1-0.3											●						12.24	11.2	3.6	0.4	6.5	1.2	2.8	11°		
	APKT 11T308-PM1	2	90	0.5-10	0.1-0.3												●					12.24	11.2	3.6	0.8	6.5	1.2	2.8	11°		
	APKT 160408-PM1	2	90	0.5-15	0.1-0.3								●		○	●			●			17.87	16.4	5.76	0.8	9.32	1.4	4.4	11°		
	APMT 1135PDER-H2	2	90	0.5-9	0.1-0.25								●							●		11.35	9	3.5	0.8	6.35	1.2	2.8	11°		
	APMT 1604PDER-H2	2	90	0.5-10	0.15-0.3								●		○		●			●		17.11	14	4.76	0.8	9.52	1.4	4.5	11°		

FREZELEME UÇLARI / MILLING INSERTS

Ürün Görseli Product Image	Uç Kodu Insert Code	No. of Edges	KAPR°	ap (mm)	fz (mm/t)	P																M				K				Z				H				U								Uç Ölçüsü Insert Size								Geometri Geometry																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
						280 (10-450)				225 (100-350)				T00135				T00140				TP1320				TP2320				TP2335				TP2345				TC2215				TC2225				TP2225				TN7501					TP4415				TP4405				TP2620				TP3620				TP4620				TP2630				TP4630				TP2640																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
						TP2125	TP2135	TP2140	TP2145	TP2155	TP2165	TP2170	TP2175	TP2180	TP2185	TP2190	TP2195	TP2200	TP2205	TP2210	TP2215	TP2220	TP2225	TP2230	TP2235	TP2240	TP2245	TP2250	TP2255	TP2260	TP2265	TP2270	TP2275	TP2280	TP2285	TP2290	TP2295	TP2300	TP2305	TP2310	TP2315	TP2320	TP2325	TP2330	TP2335	TP2340	TP2345	TP2350	TP2355	TP2360	TP2365	TP2370	TP2375		TP2380	TP2385	TP2390	TP2395	TP2400	TP2405	TP2410	TP2415	TP2420	TP2425	TP2430	TP2435	TP2440	TP2445	TP2450	TP2455	TP2460	TP2465	TP2470	TP2475	TP2480	TP2485	TP2490	TP2495	TP2500	TP2505	TP2510	TP2515	TP2520	TP2525	TP2530	TP2535	TP2540	TP2545	TP2550	TP2555	TP2560	TP2565	TP2570	TP2575	TP2580	TP2585	TP2590	TP2595	TP2600	TP2605	TP2610	TP2615	TP2620	TP2625	TP2630	TP2635	TP2640	TP2645	TP2650	TP2655	TP2660	TP2665	TP2670	TP2675	TP2680	TP2685	TP2690	TP2695	TP2700	TP2705	TP2710	TP2715	TP2720	TP2725	TP2730	TP2735	TP2740	TP2745	TP2750	TP2755	TP2760	TP2765	TP2770	TP2775	TP2780	TP2785	TP2790	TP2795	TP2800	TP2805	TP2810	TP2815	TP2820	TP2825	TP2830	TP2835	TP2840	TP2845	TP2850	TP2855	TP2860	TP2865	TP2870	TP2875	TP2880	TP2885	TP2890	TP2895	TP2900	TP2905	TP2910	TP2915	TP2920	TP2925	TP2930	TP2935	TP2940	TP2945	TP2950	TP2955	TP2960	TP2965	TP2970	TP2975	TP2980	TP2985	TP2990	TP2995	TP3000	TP3005	TP3010	TP3015	TP3020	TP3025	TP3030	TP3035	TP3040	TP3045	TP3050	TP3055	TP3060	TP3065	TP3070	TP3075	TP3080	TP3085	TP3090	TP3095	TP3100	TP3105	TP3110	TP3115	TP3120	TP3125	TP3130	TP3135	TP3140	TP3145	TP3150	TP3155	TP3160	TP3165	TP3170	TP3175	TP3180	TP3185	TP3190	TP3195	TP3200	TP3205	TP3210	TP3215	TP3220	TP3225	TP3230	TP3235	TP3240	TP3245	TP3250	TP3255	TP3260	TP3265	TP3270	TP3275	TP3280	TP3285	TP3290	TP3295	TP3300	TP3305	TP3310	TP3315	TP3320	TP3325	TP3330	TP3335	TP3340	TP3345	TP3350	TP3355	TP3360	TP3365	TP3370	TP3375	TP3380	TP3385	TP3390	TP3395	TP3400	TP3405	TP3410	TP3415	TP3420	TP3425	TP3430	TP3435	TP3440	TP3445	TP3450	TP3455	TP3460	TP3465	TP3470	TP3475	TP3480	TP3485	TP3490	TP3495	TP3500	TP3505	TP3510	TP3515	TP3520	TP3525	TP3530	TP3535	TP3540	TP3545	TP3550	TP3555	TP3560	TP3565	TP3570	TP3575	TP3580	TP3585	TP3590	TP3595	TP3600	TP3605	TP3610	TP3615	TP3620	TP3625	TP3630	TP3635	TP3640	TP3645	TP3650	TP3655	TP3660	TP3665	TP3670	TP3675	TP3680	TP3685	TP3690	TP3695	TP3700	TP3705	TP3710	TP3715	TP3720	TP3725	TP3730	TP3735	TP3740	TP3745	TP3750	TP3755	TP3760	TP3765	TP3770	TP3775	TP3780	TP3785	TP3790	TP3795	TP3800	TP3805	TP3810	TP3815	TP3820	TP3825	TP3830	TP3835	TP3840	TP3845	TP3850	TP3855	TP3860	TP3865	TP3870	TP3875	TP3880	TP3885	TP3890	TP3895	TP3900	TP3905	TP3910	TP3915	TP3920	TP3925	TP3930	TP3935	TP3940	TP3945	TP3950	TP3955	TP3960	TP3965	TP3970	TP3975	TP3980	TP3985	TP3990	TP3995	TP4000	TP4005	TP4010	TP4015	TP4020	TP4025	TP4030	TP4035	TP4040	TP4045	TP4050	TP4055	TP4060	TP4065	TP4070	TP4075	TP4080	TP4085	TP4090	TP4095	TP4100	TP4105	TP4110	TP4115	TP4120	TP4125	TP4130	TP4135	TP4140	TP4145	TP4150	TP4155	TP4160	TP4165	TP4170	TP4175	TP4180	TP4185	TP4190	TP4195	TP4200	TP4205	TP4210	TP4215	TP4220	TP4225	TP4230	TP4235	TP4240	TP4245	TP4250	TP4255	TP4260	TP4265	TP4270	TP4275	TP4280	TP4285	TP4290	TP4295	TP4300	TP4305	TP4310	TP4315	TP4320	TP4325	TP4330	TP4335	TP4340	TP4345	TP4350	TP4355	TP4360	TP4365	TP4370	TP4375	TP4380	TP4385	TP4390	TP4395	TP4400	TP4405	TP4410	TP4415	TP4420	TP4425	TP4430	TP4435	TP4440	TP4445	TP4450	TP4455	TP4460	TP4465	TP4470	TP4475	TP4480	TP4485	TP4490	TP4495	TP4500	TP4505	TP4510	TP4515	TP4520	TP4525	TP4530	TP4535	TP4540	TP4545	TP4550	TP4555	TP4560	TP4565	TP4570	TP4575	TP4580	TP4585	TP4590	TP4595	TP4600	TP4605	TP4610	TP4615	TP4620	TP4625	TP4630	TP4635	TP4640	TP4645	TP4650	TP4655	TP4660	TP4665	TP4670	TP4675	TP4680	TP4685	TP4690	TP4695	TP4700	TP4705	TP4710	TP4715	TP4720	TP4725	TP4730	TP4735	TP4740	TP4745	TP4750	TP4755	TP4760	TP4765	TP4770	TP4775	TP4780	TP4785	TP4790	TP4795	TP4800	TP4805	TP4810	TP4815	TP4820	TP4825	TP4830	TP4835	TP4840	TP4845	TP4850	TP4855	TP4860	TP4865	TP4870	TP4875	TP4880	TP4885	TP4890	TP4895	TP4900	TP4905	TP4910	TP4915	TP4920	TP4925	TP4930	TP4935	TP4940	TP4945	TP4950	TP4955	TP4960	TP4965	TP4970	TP4975	TP4980	TP4985	TP4990	TP4995	TP5000	TP5005	TP5010	TP5015	TP5020	TP5025	TP5030	TP5035	TP5040	TP5045	TP5050	TP5055	TP5060	TP5065	TP5070	TP5075	TP5080	TP5085	TP5090	TP5095	TP5100	TP5105	TP5110	TP5115	TP5120	TP5125	TP5130	TP5135	TP5140	TP5145	TP5150	TP5155	TP5160	TP5165	TP5170	TP5175	TP5180	TP5185	TP5190	TP5195	TP5200	TP5205	TP5210	TP5215	TP5220	TP5225	TP5230	TP5235	TP5240	TP5245	TP5250	TP5255	TP5260	TP5265	TP5270	TP5275	TP5280	TP5285	TP5290	TP5295	TP5300	TP5305	TP5310	TP5315	TP5320	TP5325	TP5330	TP5335	TP5340	TP5345	TP5350	TP5355	TP5360	TP5365	TP5370	TP5375	TP5380	TP5385	TP5390	TP5395	TP5400	TP5405	TP5410	TP5415	TP5420	TP5425	TP5430	TP5435	TP5440	TP5445	TP5450	TP5455	TP5460	TP5465	TP5470	TP5475	TP5480	TP5485	TP5490	TP5495	TP5500	TP5505	TP5510	TP5515	TP5520	TP5525	TP5530	TP5535	TP5540	TP5545	TP5550	TP5555	TP5560	TP5565	TP5570	TP5575	TP5580	TP5585	TP5590	TP5595	TP5600	TP5605	TP5610	TP5615	TP5620	TP5625	TP5630	TP5635	TP5640	TP5645	TP5650	TP5655	TP5660	TP5665	TP5670	TP5675	TP5680	TP5685	TP5690	TP5695	TP5700	TP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FREZELEME UÇLARI / MILLING INSERTS

Ürün Görseli Product Image	Uç Kodu Insert Code	No. of Edges	KAPR*	ap (mm)	fz (mm/t)	P		M		K		N		S		H		U		Uç Ölçüsü Insert Size								Geometri Geometry				
						TP2125	TP2135	TC0135	TC0140	TP1320	TP2320	TP2335	TP2345	TC2215	TC2225	TP2225	TN7501	TP4415	TP4405	TP2620	TP3620	TP4620	TP2650	TP4650	TP2640	IC	A P M X		S	RE	W1	BS
	RPHX 10T3M8-M3			0.2-5.0	0.04-0.24																		10		3.97					3.4	11°	
	RPHX 1204M4E-M3			0.2-6.0	0.10-0.36																	12		4.76					4.4	11°		
	RPHX 1605M8EN-M3			0.2-8.0	0.10-0.36																		16		5.56					5.5	11°	
	RPHX 10T3M4-R6			0.2-5.0	0.10-0.24																	10		3.97					3.4	11°		
	RPHX 1204M6E-R6			0.2-6.0	0.10-0.40																	12		4.76					4.4	11°		
	RPHX 1605M6E-R6			0.2-8.0	0.10-0.40																	16		5.56					5.5	11°		
	SDMT 09T312-DM	4	10	0.2-1.8	0.4-1.2																	●	9.525		3.97	1.2				4	15°	
	SDMT 120412-DM	4	10	0.5-2.0	0.4-1.4																	●	12.7		4.76	1.2				4.4	15°	
	SDMT 090408-M3	4	15	0.2-1.5	0.3-1.5	○	●		●							●				○		9.525		4.76	0.8			1.3	3.9	15°		
	SDMT 120508-M3	4	15	0.5-2.5	0.3-2.0	●	○						○	●								12.7		5.56	0.8			2.2	4.4	15°		
	SDMT 120512-M3	4	15	0.5-2.5	0.3-2.0		●												●			12.7		5.56	1.2			2.2	4.4	15°		
	SDMW 090408-HR	4	15	0.2-6.0	0.1-2.0						●											9.506		4.76	0.8			1.6	3.9	15°		
	SDMW 120508-HR	4	15	0.5-9.0	0.3-3.0		●															12.7		5.56	0.8			2.5	4.4	15°		
	SEHT 1204AFTN-AL	4	45	0.5-5.5	0.05-0.20								○									12.7		4.76	0.8			1.8		20°		
	SNKT 060308R-M	4	90	1.0-5.0	0.07-0.15					●		●				●			●			6.6	6.0	3.71	0.8					3.4		
	SNKT 060308R-AL	4	90	1.0-5.0	0.07-0.15									●								6.6	6.0	3.71	0.8					3.4		
	SNKT 090408R-M	4	90	1.0-8.0	0.07-0.15																		8.6	8.0	4.7	0.8				4.15		
	SNMX 1206ANN-AL	8	45	0.5-5.5	0.01-0.25									○								12.7	6.0	6.35	0.8			1.56	4.5			
	SNMX 1206ANN-MM	8	45	0.5-6.0	0.10-0.35					●		●						●				12.7	6.0	6.35	0.8			1.56	4.5			
	SNMX 1206QNN-MM	8	88	0.5-11	0.05-0.30							●							●			12.7	11.5	6.35	0.8			1.40	5.2			
	SNMX 1205ANN-F57	8	45	0.5-5.0	0.16-0.34							●						●				12.7	6.0	5.5	0.8			1.56				
	SNMX 120512-F57	8	88	1.0-10	0.1-0.40							●						●				12.7	11.5	5.5	1.2							
	SPKN 1203EDTR-NN	4	75	0.5-7.0	0.18-0.40														●			12.7	9.0	3.21	1.20					11°		
	SPKN 1504EDTR-NN	4	75	0.5-9.0	0.18-0.40														●			15.88	12	4.76	1.6					11°		
	SPMT 120408-PM1	4	90	0.5-9.0	0.13-0.29					●									●			12.7	11.5	4.76	0.8				5.58	11°		
	TPKN 1603PDTR-NN	3	90	0.5-12	0.14-0.25														●			14.52	13	3.18	1.2		1.85	11°				
	TPKN 2204PDTR-NN	3	90	0.5-18	0.15-0.27														●			19.92	18	4.76	1.2		1.95	11°				
	VCKT 220530N-AL	2	90	1-15	0.15-0.30								●									15.6	15	5.56	3.0	12.7		5.6	7°			
	WNGX 060312XNN-EM	6	14	0.5-1.0	0.20-1.2														●			6.35	1	3.18	1.2				2.86			
	WNGX 09T316XNN-EM	6	14	0.7-1.5	1.2-2.0														●			9.525	1.5	3.98	1.6				3.6			
	WNMU 080608EN-GM	6	90	0.8-7.5	0.1-0.3					●			○					●				14	8	6.65	0.8		1.3	6.2				
	WNMU 080608EN-GH	6	90	0.8-8	0.1-0.4													●				14	8	6.65	0.8		1.3	6.2				

FREZELEME UÇLARI / MILLING INSERTS

Ürün Görseli Product Image	Uç Kodu Insert Code	Vc m/min	KAPR°	ap (mm)	fz (mm/rt)	P		M		K		S		H		U					Uç Ölçüsü Insert Size	Geometri Geometry																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
						TP2125	TP2135	TC0135	TC0140	TP1320	TP2320	TP2335	TP2345	TC2215	TC2225	TP2225	TN7501	TP4415	TP4405	TP2620			TP3620	TP4620	TP2650	TP4630	TP2640																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	XEKT 19M504FR-MA	2	90	9-16.9	0.24-0.40																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

FREZE TAKIM KODLAMASI / MILLING TOOL CODING SYSTEM

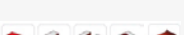
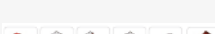
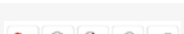
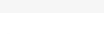
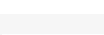
1	2	3	4		5		6	7		8
M	S	G	032		03	-	AP	16		150*
Frezeleme Milling	Tip Type	Uç Modeli Insert Model	Takım Çapı Tool Dia.		Ağız Sayısı Number of Pockets		Uç Kodu Insert Code	Uç Ölçü Insert Dimensions		S : Tam Boy T : Metrik S : Full Size T: Metric

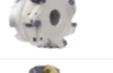
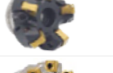
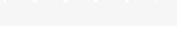
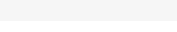
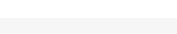
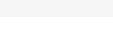
C : Malafa
C : Arbor
S : Saplı Tarama
S : Indexable Endmill
T : Vidalı Takım
T : Screw Type Tools

* Takma uçlu parmak frezelerde toplam takım boyunu, vidalı tip takımlarda ise metrik ölçüyü gösterir. Kodun sonundaki "-C", soğutma sıvısı anlamına gelir.

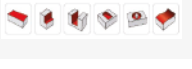
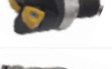
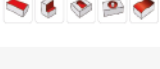
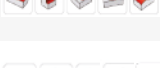
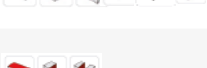
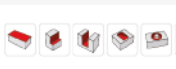
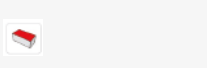
*Shows total tool length for indexable endmills or Metric for screw type tools.
**"-C" at the end of the code refers to coolant.

FREZELEME TAKIMLARI ÖZET / MILLING TOOLS SUMMARY

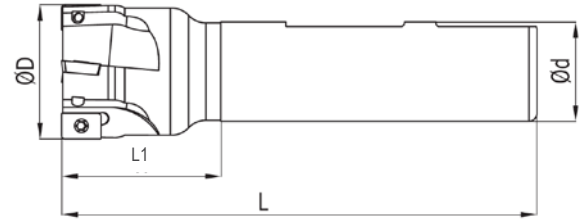
Tip Type	Ürün Görseli Product Picture	Kod Code	Yanaşma Açısı Approach Angle	Çap Aralığı Diameter Range	Bağlanılan Uç Insert	Özellikler Feature	Takım Sayfası Page
SAPLI TARAMALAR INDEXABLE ENDMILLS		MSG...	90°	Ø12-40 mm	APKT 10...		D15
		MSZ...	90°	Ø16-32 mm	APKT 11T3...		D18
		MSZ...	90°	Ø25-33 mm	APKT 16...		D19
		MST...	90°	Ø20-32 mm	3PKT 10...		D19
		MSW...	-	Ø 8-32 mm	RCE...		D20
		MSY...	90°	Ø16-33 mm	LNGX 03...		D21
		MSK...	90°	Ø16-40 mm	LNMX 10...		D22
		MSG...	90°	Ø35-50 mm	TPKN 16...		D22
		MSG...	-	Ø16-40 mm	RD... 0803 RD... 1003 RD... 10T3 RD... 1204		D23
		MSG...	45°-60°	Ø15-40 mm	TCMT 11... TCMT 16...		D24
		MSK...	14°	Ø25-32 mm	WNGX 09...		D24
		MSS...	90°	Ø16-25 mm	R390 11...		D25
		MSE...	90°	Ø25-40 mm	APKT 17...		D25
		MST...	90°	Ø16-26 mm	SNKT 06...		D26
		MST...	90°	Ø25-32 mm	6NGU 06...		D26
		MST...	90°	Ø32 mm	3PKT 15...		D27
		MSY...	90°	Ø10-16 mm	LPGU 0102...		D27
		MSZ...	10°	Ø22-42 mm	SDMT 09...		D28
		MSE...	90°	Ø40 mm	LNHU 13...		D28
		MSE...	90°	Ø20-33 mm	LNHU 09...		D29
		MSE...	45°	Ø40 mm	XNMU 07...		D29
		MSE...	15°	Ø25-32 mm	SDMT 09...		D30

Tip Type	Ürün Görseli Product Picture	Kod Code	Yanaşma Açısı Approach Angle	Çap Aralığı Diameter Range	Bağlanılan Uç Insert	Özellikler Feature	Takım Sayfası Page
SAPLI TARAMALAR INDEXABLE ENDMILLS		MSE...	15°	Ø25-32 mm	SDMT 09...		D30
		MSE...	15°	Ø32 mm	SDMT 12...		D30
		MSE...	-	Ø15-22 mm	RPHX 10T...		D31
		MSE...	-	Ø32 mm	RPHX 12...		D31
		MSK...	90°	Ø20-40 mm	XEKT 19...		D32
		MSK...	14°	Ø25-32 mm	WNGX 09T3...		D32
FREZE KAFALARI MILLING HEADS		MCG...	90°	Ø40-100 mm	APKT 10...		D33
		MCY...	90°	Ø40-52 mm	LNGX 03...		D33
		MCG...	90°	Ø40-80 mm	APKT 11... APKT 16...		D34
		MCK...	90°	Ø40-50 mm	LNMX 1006...		D34
		MCK...	90°	Ø50-160 mm	LNMX 1510...		D34
		MCG...	-	Ø40-160 mm	RD... 1003... RD... 10T3... RD... 12T3... RD... 1604...		D35
		MCK...	45°	Ø50-160 mm	SNMX 1205...		D36
		MCK...	88°	Ø50-250 mm	SNMX 1206... SNMX1205...		D36
		MCG...	90°	Ø50-100 mm	TPKN 16...		D37
		MCG...	90°	Ø63-250 mm	TPKN 22...		D37
		MCK...	14°	Ø40-66 mm	WNGX 09T3...		D37
		MCY...	90°	Ø50-250 mm	WNMU 0806...		D38
		MCT...	90°	Ø50-100 mm	3PKT 15...		D39
		MCT...	90°	Ø40-63 mm	3PKT 10...		D39
		MCT...	90°	Ø40-63 mm	6NGU 06...		D39
		MCT...	90°	Ø50-125 mm	6NGU 09...		D39

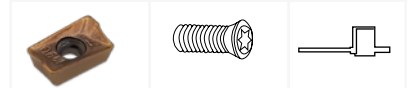
Tip Type	Ürün Görseli Product Picture	Kod Code	Yanaşma Açısı Approach Angle	Çap Aralığı Diameter Range	Bağlanılan Uç Insert	Özellikler Feature	Takım Sayfası Page
FREZE KAFALARI MILLING HEADS		MCS...	90°	Ø40-63 mm	R390 11...	    	D40
		MCZ...	10°	Ø40-100 mm	SDMT 09...		D40
		MCW ...	90°	Ø50-63 mm	SPMT 12...		D41
		MCG...	75°	Ø63-200 mm	SPKN 12...		D41
		MCZ...	45°	Ø50-160 mm	ONHU 08...	 	D42
		MCE...	40°	Ø50-160 mm	ODMT 06...		D43
		MCE...	90°	Ø50-100 mm	APKT 17...	    	D43
		MCE...	45°	Ø40-200 mm	XNMT 07...		D44
		MCE...	45°	Ø63-315 mm	XNMT 09...		D44
		MCE...	90°	Ø40-80 mm	LNHT 09...	  	D45
		MCE...	90°	Ø63-160 mm	LNHT 16...	  	D45
		MCE...	90°	Ø40-250 mm	LNHT 13...	  	D46
		MCE...	15°	Ø40-50 mm	SDMT 09...	    	D47
		MCE...	15°	Ø52-125 mm	SDMT 12...		D47
		MCE...	-	Ø30-40 mm	RPHX 10T...	    	D48
		MCE...	-	Ø40-80 mm	RPHX 12...	    	D48
		MCE...	-	Ø63-100 mm	RPHX 16...	    	D49
		MCE...	45°	Ø63-160 mm	HNGX 09...		D49
		MCK...	90°	Ø40-125 mm	XEKT 19...	    	D50
		MCZ...	45°	Ø63-125 mm	ONHU 06...	    	D50
		MCI...	44°	Ø40-125 mm	ONMT 05...	    	D51
		MCE...	90°	Ø40-50 mm	LNHT 09...	 	D51
		MCE...	90°	Ø25-40 mm	LNHT 09...	 	D52

Tip Type	Ürün Görseli Product Picture	Kod Code	Yanaşma Açısı Approach Angle	Çap Aralığı Diameter Range	Bağlanılan Uç Insert	Özellikler Feature	Takım Sayfası Page
HELİSEL FREZELER HELICAL MILLING CUTTERS		MTE...	90°	Ø25-32 mm	LNHU 09...		D52
		MCE...	90°	Ø40-80 mm	LNHU 13...		D52
		MSE...	90°	Ø40 mm	LNHU 13...		D53
		MSG...	90°	Ø40-80 mm	APKT 10...		D53
		MCG...	90°	Ø50-80 mm	APKT 16...		D53
		MTY...	90°	Ø20-42 mm	LNGX 03...		D55
VİDALI TAKIMLAR SCREW TOOLS		MTK...	14°	Ø25-40 mm	WNGX 09T3...		D55
		MTK...	14°	Ø16-35 mm	WNGX 0603...		D56
		MTK...	90°	Ø25-40 mm	XEKT 19...		D56
		MTG...	90°	Ø16-40 mm	APKT 10...		D57
		MTG...	90°	Ø25-40 mm	APKT 16...		D57
		MTT...	90°	Ø32-42 mm	3PKT 10...		D57
		MTT...	90°	Ø21-32 mm	SNKT 06...		D58
		MTZ...	15°	Ø25-42 mm	SDMT 09...		D58
		MTE...	-	Ø15-22 mm	RPHX 10T...		D59

SAPLI TARAMALAR / INDEXABLE ENDMILLS



90°



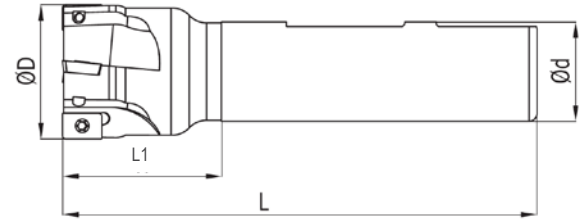
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSG012-01-AP10-120	●	12	1	40	120	12	APKT1003...	SM2,5X6	T08
MSG012-01-AP10-120-C	●	12	1	40	120	12			
MSG014-01-AP10-120	●	14	1	30	120	12			
MSG016-02-AP10-100	●	16	2	35	100	16			
MSG016-02-AP10-100-C	●	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			
MSG020-03-AP10-100	●	20	3	30	100	20	APKT1003...	SM2,5X7	T08
MSG020-03-AP10-100-C	●	20	3	30	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			

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

SAPLI TARAMALAR / INDEXABLE ENDMILLS



90°



Uç Insert	Vida Screw	Anahtar Torx Key
APKT1003...	SM2,5X7	T08
APKT1003...	SM2,5X7	T08

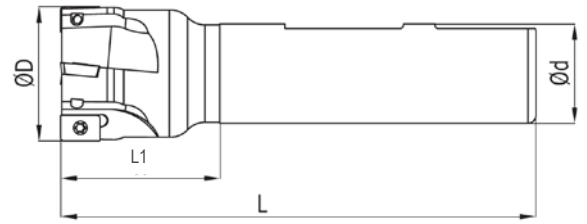
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)
MSG020-03-AP10-200-C	●	20	3	60	200	20
MSG020-03-AP10-250	●	20	3	60	250	20
MSG022-03-AP10-100	●	22	3	30	100	20
MSG022-03-AP10-100-C	●	22	3	30	100	20
MSG022-03-AP10-120	●	22	3	30	120	20
MSG022-03-AP10-120-C	●	22	3	30	120	20
MSG022-03-AP10-150	●	22	3	30	150	20
MSG022-03-AP10-150-C	●	22	3	30	150	20
MSG022-03-AP10-200	●	22	3	30	200	20
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
MSG028-04-AP10-150-C	●	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

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

SAPLI TARAMALAR / INDEXABLE ENDMILLS



90°



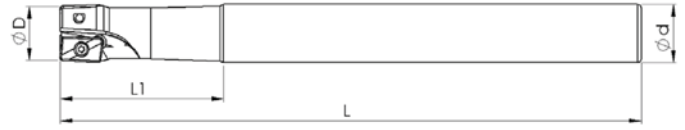
									
Takım Kodu <i>Order Code</i>	Stok Durumu <i>Stock Availability</i>	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç <i>Insert</i>	Vida <i>Screw</i>	Anahtar <i>Torx Key</i>
MSG030-04-AP10-120-C	●	30	4	30	120	25			
MSG030-04-AP10-150	●	30	4	40	150	25			
MSG030-04-AP10-150-C	●	30	4	40	150	25			
MSG030-04-AP10-200	●	30	4	40	200	25	APKT1003...	SM2,5X7	T08
MSG030-04-AP10-200-C	●	30	4	40	200	25			
MSG030-04-AP10-300	●	30	4	40	300	25			
MSG032-04-AP10-150	●	32	4	40	150	25			
MSG032-04-AP10-150-C	●	32	4	60	150	32			
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	30	100	32			
MSG035-04-AP10-100-C	●	35	4	30	100	32			
MSG035-04-AP10-120	●	35	4	30	120	32			
MSG035-04-AP10-120-C	●	35	4	30	120	32			
MSG035-04-AP10-150	●	35	4	30	150	32			
MSG035-04-AP10-150-C	●	35	4	30	150	32			
MSG035-04-AP10-200	●	35	4	30	200	32			
MSG040-04-AP10-100	●	40	4	40	100	32			
MSG040-05-AP10-100-C	●	40	5	40	100	32			
MSG040-05-AP10-120	●	40	5	40	120	32			
MSG040-05-AP10-120-C	●	40	5	40	120	32			
MSG040-05-AP10-150	●	40	5	40	150	32			
MSG040-05-AP10-150-C	●	40	5	40	150	32			

- Stok ürün - Stock item

☐ Stok dışı ürün - Non Stock item

Δ Özel Sipariş - Special order

SAPLI TARAMALAR / INDEXABLE ENDMILLS

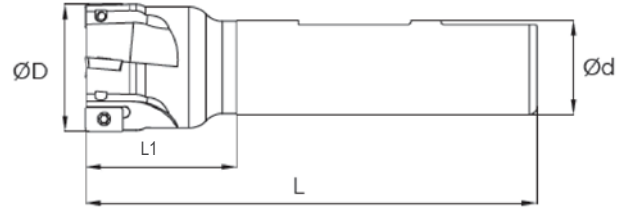
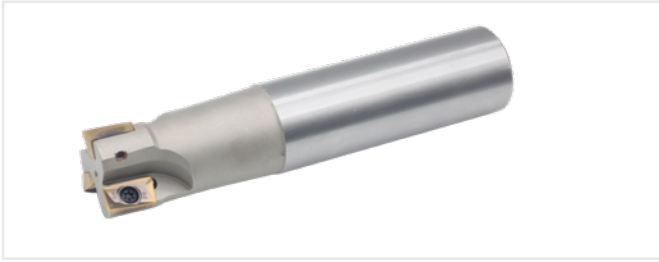


90°



Takim Kodu <i>Order Code</i>	Stok Durumu <i>Stock Availability</i>	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç <i>Insert</i>	Vida <i>Screw</i>	Anahtar <i>Torx Key</i>
MSZ016-02-AP11-100	●	16	2	30	100	16	APKT11T3...	SM2,5X6	T08
MSZ016-02-AP11-160	●	16	2	30	160	16			
MSZ016-02-AP11-160-C	●	16	2	30	160	16			
MSZ016-02-AP11-200	●	16	2	30	200	16			
MSZ016-02-AP11-200-C	●	16	2	30	200	16			
MSZ017-02-AP11-160	●	17	2	30	160	16			
MSZ017-02-AP11-200	●	17	2	30	200	16			
MSZ017-02-AP11-250	●	17	2	30	250	16			
MSZ018-02-AP11-160	●	18	2	30	160	16			
MSZ020-03-AP11-120	●	20	3	30	120	20			
MSZ020-03-AP11-160	●	20	3	30	160	20			
MSZ020-03-AP11-160-C	●	20	3	40	160	20			
MSZ020-03-AP11-200	●	20	3	40	200	20			
MSZ021-03-AP11-160	●	21	3	40	160	20			
MSZ021-03-AP11-200	●	21	3	40	200	20			
MSZ022-03-AP11-250	●	22	3	40	250	20			
MSZ025-03-AP11-120	●	25	3	40	120	25			
MSZ025-03-AP11-160	●	25	3	40	160	25			
MSZ025-03-AP11-200	●	25	3	40	200	25			
MSZ026-03-AP11-160	●	26	3	50	160	25			
MSZ026-03-AP11-200	●	26	3	30	200	25			
MSZ026-03-AP11-250	●	26	3	40	250	25			
MSZ032-04-AP11-200	●	32	4	50	200	32			

SAPLI TARAMALAR / INDEXABLE ENDMILLS



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSZ025-02-AP16-170	●	25	2	50	170	25	APKT1604...	SM4X9	T15
MSZ026-02-AP16-200	●	26	2	30	200	25			
MSZ026-02-AP16-250	●	26	2	30	250	25			
MSZ032-03-AP16-170	●	32	3	50	170	32			
MSZ033-03-AP16-200	●	33	3	40	200	32			
MSZ033-03-AP16-250	●	33	3	40	250	32			
MSZ033-03-AP16-300	●	33	3	40	300	32			
MSZ033-03-AP16-350	●	33	3	40	350	32			
MSZ033-03-AP16-400	●	33	3	40	400	32			

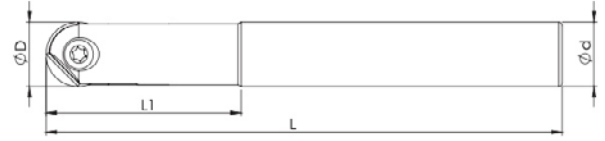


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Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MST020-02-3P10-150-C	●	20	2	40	150	20	3PKT1004..	SM2,5X7	T08
MST025-03-3P10-150-C	●	25	3	50	150	25			
MST032-04-3P10-150-C	●	32	4	35	150	32			

SAPLI TARAMALAR / INDEXABLE ENDMILLS



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)	L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSW 08-01-RC08-130	○	8	36	130	10	RCE 08	SM3xd4,2xT08	T8
MSW 010-01-RC10-130	●	10	30	130	12	RCE 10	SM5x0,5x9	T15
MSW 012-01-RC12-150	●	12	32	130	12	RCE 12	SM5x0,5x10	T20
MSW 016-01-RC16-140	●	16	36	140	16	RCE 16	SM5x0,5x12	
MSW 020-01-RC20-200	●	20	45	160	20	RCE 20	SM4x0,5x17	
MSW 025-01-RC25-200	●	25	45	160	25	RCE 25	SM6x0,75x20	
MSW 030-01-RC30-200	○	30	66	200	32	RCE 30	SM8xd13x3Allen	A3
MSW 032-01-RC32-200	○	32	66	200	32	RCE 32		

SAPLI TARAMALAR / INDEXABLE ENDMILLS

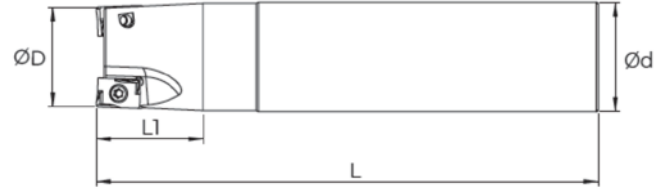


90°

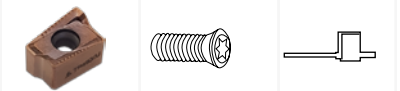


Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSY016-02-LN03-160-C	●	16	2	30	160	16	LNGX0303...	SM3x8	T08-T10
MSY016-02-LN03-110-C	●	16	2	35	110	16			
MSY016-02-LN03-200-C	●	16	2	60	200	16			
MSY017-02-LN03-160-C	●	17	2	30	160	16			
MSY017-02-LN03-200-C	●	17	2	30	200	16			
MSY018-02-LN03-160-C	●	18	2	30	160	16			
MSY020-03-LN03-110-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			
MSY021-03-LN03-160-C	●	21	3	30	160	20			
MCY021-03-LN03-200-C	●	21	3	30	200	20			
MSY022-03-LN03-180-C	●	22	3	30	180	20			
MSY025-04-LN03-160-C	●	25	4	50	160	25			
MSY025-04-LN03-180-C	●	25	4	50	180	25			
MSY026-04-LN03-180-C	●	26	4	30	180	25			
MSY026-04-LN03-200-C	●	26	4	30	200	25			
MSY026-04-LN03-250-C	●	26	4	30	250	25			
MSY028-04-LN03-160-C	●	28	4	30	160	25			
MSY028-04-LN03-200-C	●	28	4	30	200	25			
MSY032-05-LN03-160-C	●	32	5	50	160	32			
MSY032-05-LN03-200-C	●	32	5	60	200	32			
MSY033-05-LN03-160-C	●	33	5	40	160	32			

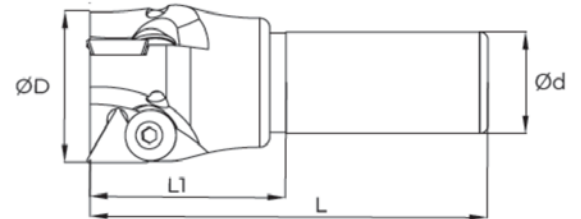
SAPLI TARAMALAR / INDEXABLE ENDMILLS



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSK016-01-LN10-090-C	●	16	1	35	90	16	LNMX1006...	M3X8	T10
MSK018-02-LN10-120-C	●	18	2	30	120	16			
MSK020-02-LN10-100-C	●	20	2	35	100	20			
MSK020-02-LN10-150-C	●	20	2	50	150	20			
MSK025-02-LN10-115-C	●	25	2	35	115	25			
MSK025-03-LN10-115-C	●	25	3	35	115	25			
MSK025-03-LN10-150-C	●	25	3	50	150	25			
MSK032-04-LN10-125-C	●	32	4	40	125	32			
MSK032-04-LN10-150-C	●	32	4	50	150	32			
MSK032-04-LN10-200-C	●	32	4	60	200	32			
MSK040-04-LN10-130-C	●	40	4	40	130	32			
MSK040-05-LN10-130-C	●	40	5	40	130	32			



90°



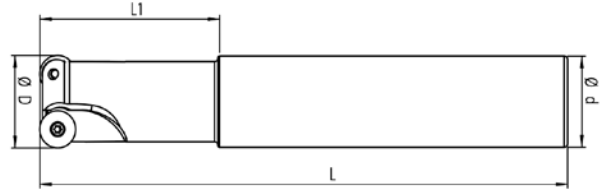
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSG035-02-TP16-100	●	35	2	50	100	25	TPKN16...	SM6X0,75	A4
MSG040-03-TP16-100	●	40	3	50	100	25			
MSG050-03-TP16-100	●	50	3	50	100	25			

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

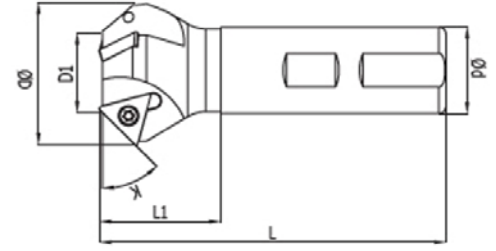
△ Özel Sipariş - Special order

SAPLI TARAMALAR / INDEXABLE ENDMILLS



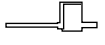
Takım Kodu <i>Order Code</i>	Stok Durumu <i>Stock Availability</i>	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç <i>Insert</i>	Vida <i>Screw</i>	Anahtar <i>Torx Key</i>		
MSG016-02-RD0803-120-C	●	16	2	40	120	16	RD... 0803	SM3X6	T10		
MSG016-02-RD0803-150-C	●	16	2	40	150	16					
MSG017-02-RD0803-150-C	●	17	2	30	150	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					

SAPLI TARAMALAR / INDEXABLE ENDMILLS



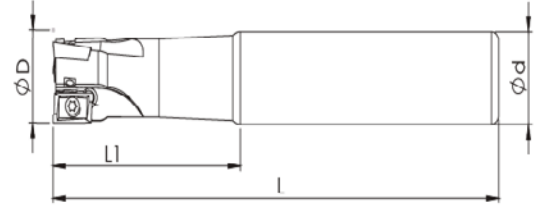
45°

60°



Takım Kodu Order Code	Stok Durumu Stock Availability	K	D (mm)		D1 (mm)	d (mm)	L (mm)	L1 (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSG015-01-TC11-100	●	45°	15	1	4	16	L100	35	TCMT11..	M2,5X7	T08
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..	M3,5X8	T15
MSG031-02-TC16-100	●	45°	31	2	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			

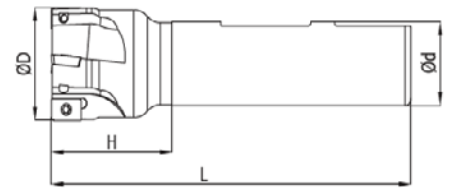
SAPLI TARAMALAR / INDEXABLE ENDMILLS



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSS016-02-R311-150	●	16	2	44	150	16	R39011T3...	M2,5X6	T08
MSS016-02-R311-150-C	●	16	2	44	150	16			
MSS016-02-R311-100	○	16	2	35	100	16			
MSS020-03-R311-150	●	20	3	50	150	20			
MSS020-03-R311-150-C	●	20	3	50	150	20			
MSS020-03-R311-100	○	20	3	40	100	20			
MSS025-03-R311-150	●	25	3	50	150	25			
MSS025-03-R311-150-C	●	25	3	50	150	25			
MSS025-03-R311-100	●	25	3	35	100	25			



90°

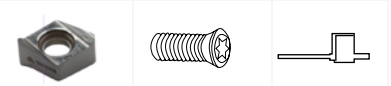


Takım Kodu <i>Order Code</i>	Stok Durumu <i>Stock Availability</i>	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç <i>Insert</i>	Vida <i>Screw</i>	Anahtar <i>Torx Key</i>
MSE025-02-AP17-100-C	○	25	2	37	100	25	APKT1705...	SM4X8.4	T15
MSE032-03-AP17-110-C	○	32	3	39	110	32		M4X10	
MSE032-03-AP17-200-C	○	32	3	39	200	32			
MSE040-04-AP17-120-C	○	40	4	49	120	32			

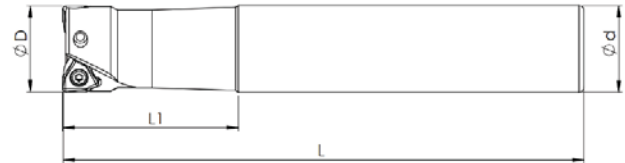
SAPLI TARAMALAR / INDEXABLE ENDMILLS



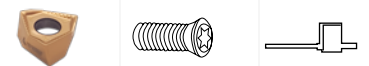
90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MST016-02-SN06-120	●	16	2	40	120	16	SNKT0603...	M3X8	T10
MST016-02-SN06-150-C	●	16	2	50	150	16			
MST017-02-SN06-150	●	17	2	30	150	16			
MST017-02-SN06-150-C	●	17	2	30	150	16			
MST017-02-SN06-200-C	●	17	2	30	200	16			
MST018-02-SN06-150-C	●	18	2	30	150	16			
MST020-03-SN06-120-C	●	20	3	40	120	20			
MST021-03-SN06-160-C	●	21	3	30	160	20			
MST021-03-SN06-200-C	●	21	3	30	200	20			
MST022-03-SN06-160-C	●	22	3	30	160	20			
MST025-03-SN06-150-C	●	25	3	40	150	25			
MST025-03-SN06-200-C	●	25	3	60	200	25			
MST026-03-SN06-200-C	●	26	3	30	200	25			



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MST025-02-6N06-150-C	○	25	2	50	150	25	6NGU0604...	M3X8	T10
MST032-03-6N06-150-C	○	32	3	50	150	32			

● Stok ürün - Stock item

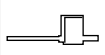
○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

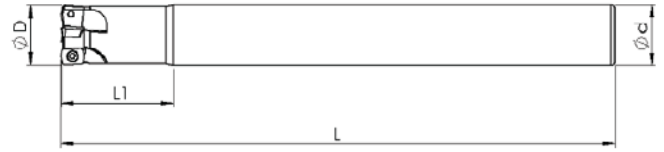
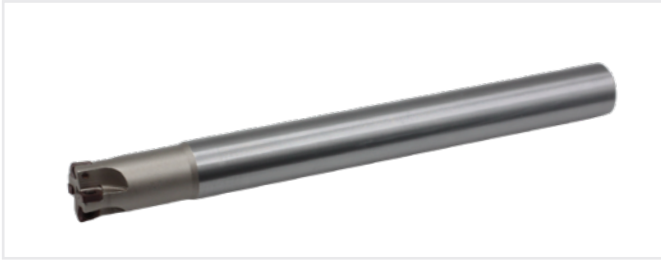
SAPLI TARAMALAR / INDEXABLE ENDMILLS



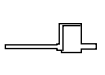
90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MST032-03-3P15-150-C	●	32	3	30	150	25	3PKT1505...	M4,5X12	T20
MST032-03-3P15-200-C	●	32	3	60	200	32			

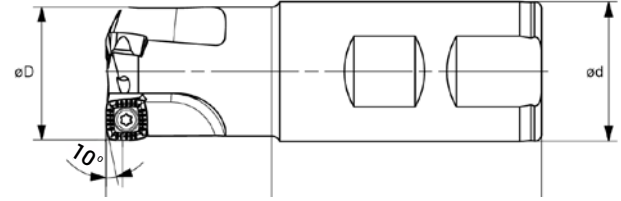


90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSY010-02-LP01-100	●	10	2	20	100	10	LPGU0102..	M2X5	T06
MSY011-02-LP01-120	●	11	2	22	120	10			
MSY012-02-LP01-120	●	12	2	20	120	11			
MSY012-03-LP01-120	●	12	3	20	120	11			
MSY012-02-LP01-100	●	12	2	25	100	12			
MSY012-02-LP01-120	●	12	2	25	120	12			
MSY012-03-LP01-120	●	12	3	25	120	12			
MSY012-03-LP01-150	●	12	3	80	150	12			
MSY014-03-LP01-120	●	14	3	30	120	14			
MSY016-04-LP01-160	●	16	4	30	160	16			

SAPLI TARAMALAR / INDEXABLE ENDMILLS



10°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)		Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key
MSZ022-02-SD09-170-C	●	22	2	25	170	20		SDMT09T3...				
MSZ025-02-SD09-160-C	●	25	2	40	160	25						
MSZ025-03-SD09-160-C	●	25	3	50	160	25						
MSZ025-02-SD09-200-C	●	25	2	60	200	25						
MSZ025-03-SD09-200-C	●	25	3	60	200	25						
MSZ026-02-SD09-160-C	●	26	2	30	160	25						
MSZ026-03-SD09-160-C	●	26	3	30	160	25						
MSZ026-02-SD09-200-C	●	26	2	30	200	25						
MSZ032-03-SD09-150-C	●	32	3	50	150	32						
MSZ032-03-SD09-160-C	●	32	3	50	160	32						
MSZ032-03-SD09-200-C	●	32	3	60	200	32						
MSZ033-03-SD09-160-C	●	33	3	40	160	32						
MSZ033-03-SD09-200-C	●	33	3	30	200	32						
MSZ033-03-SD09-250-C	●	33	3	30	250	32						
MSZ035-04-SD09-160-C	●	35	4	30	160	32						
MSZ042-04-SD09-160-C	●	42	4	40	160	32						



90°



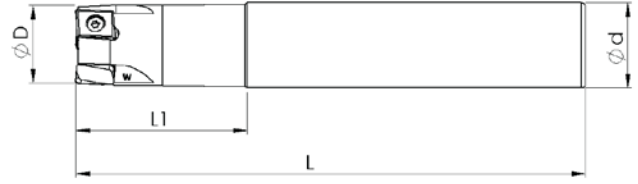
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)		Uç Insert	Vida Screw	Anahtar Torx Key
MSE040-05-LN13-C	○	40	5	49	120	32		LNHU1306...	M4X11.5	T15

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

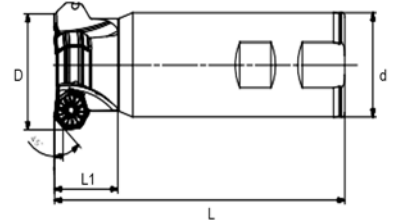
SAPLI TARAMALAR / INDEXABLE ENDMILLS



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSE020-02-LN09-110	○	20	2	30	110	20	LNHU0904...	M3X8.3	T09
MSE020-03-LN09-110	○	20	3	30	110	20			
MSE021-02-LN09-200	○	21	2	30	200	20			
MSE025-03-LN09-200-C	○	25	3	34	200	25			
MSE025-04-LN09-200-C	○	25	4	34	200	25			
MSE026-03-LN09-200-C	○	26	3	34	200	25			
MSE028-03-LN09-110-C	○	28	3	34	110	25			
MSE032-04-LN09-250-C	○	32	4	45	250	32			
MSE032-05-LN09-250-C	○	32	5	45	250	32			
MSE033-04-LN09-250-C	○	33	4	45	250	32			

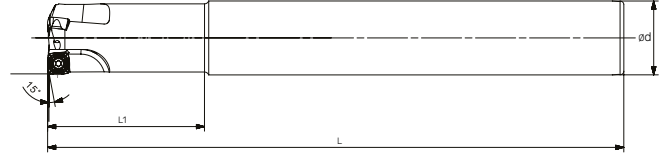


45°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key	Altık Shim	Altık Vidası Shim Screw	Altık Vidası Anahtar Shim Screw Wrench
MSE040-03-XN07-C	○	40	3	28.3	130	40	XNMU0705...	SM3.5X12	T15	S-XN07030	SM5X8.5	A3.5

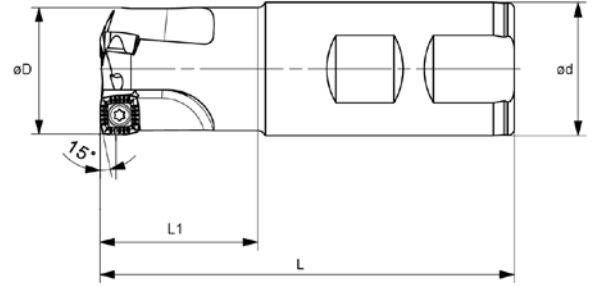
SAPLI TARAMALAR / INDEXABLE ENDMILLS



15°



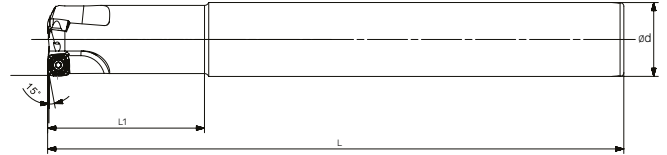
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSE025-02-SD09-200-C	●	25	2	48	200	25	SDMT0904...	M3.5X8.6	T10
MSE026-02-SD09-180-C	●	26	2	28	180	25			
MSE032-03-SD09-250-C	●	32	3	67	250	32			



15°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSE025-02-SD09-96-C	●	25	2	37	96	25	SDMT0904...	M3.5X8.6	T10
MSE032-02-SD09-100-C	●	32	2	37	100	32			



15°



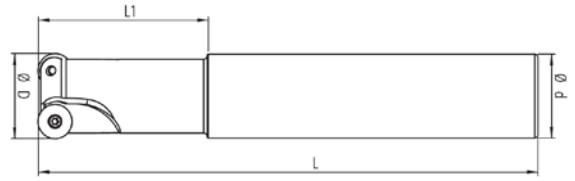
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSE032-02-SD15-250-C	●	32	2	70	250	32	SDMT1205...	M4X11.2	T15

● Stok ürün - Stock item

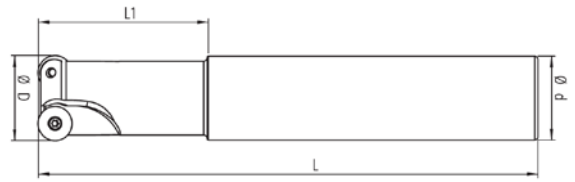
○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

SAPLI TARAMALAR / INDEXABLE ENDMILLS

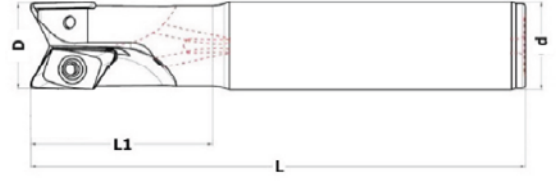


Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSE015-03-RP10-225-C	●	15	3	56.2	225	25	RPHX10T3...	M3X7.2	T09
MSE022-04-RP10-130-C	●	22	4	65	130	32			

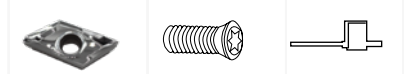


Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSE032-03-RP12-120-C	○	32	3	33	120	32	RPHX1204...	M4X8.5	T10

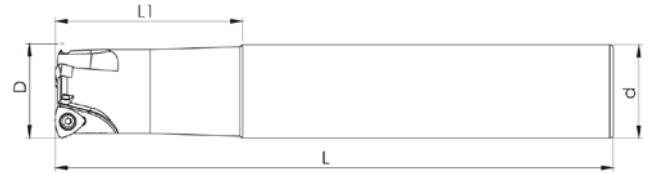
SAPLI TARAMALAR / INDEXABLE ENDMILLS



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSK020-01-XE19-150-C	○	20	1	50	150	20	XEKT19...	SM4X10	T15
MSK025-02-XE19-150-C	○	25	2	50	150	25			
MSK032-02-XE19-150-C	○	32	2	50	150	32			
MSK040-03-XE19-150-C	○	40	3	60	150	32			

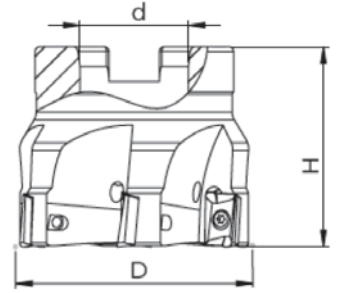


14°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSK025-02-W N09-150-C	●	25	2	70	150	25	W NGX09T3..	SM3X8	T10
MSK032-03-W N09-150-C	●	32	3	70	150	32			

FREZE KAFALARI / FACE MILLS

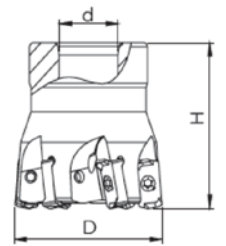


90°



Uç Insert	Vida Screw	Anahtar Torx Key
APKT1003...	SM2,5X7	T08

Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)
MCG040-05-AP10	●	40	5	45	16
MCG040-05-AP10-C	●	40	5	45	16
MCG050-06-AP10	●	50	6	45	22
MCG050-06-AP10-C	●	50	6	45	22
MCG063-06-AP10	●	63	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°



Uç Insert	Vida Screw	Anahtar Torx Key
LNGX0303...	SM3X7	T08

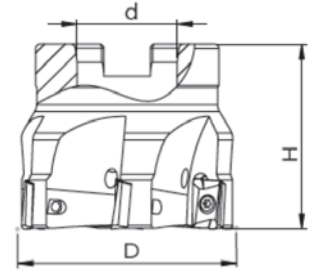
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)
MCY040-06-LN03-C	●	40	6	40	17
MCY050-06-LN03-C	●	50	6	50	22
MCY050-07-LN03-C	●	50	7	50	22
MCY052-06-LN03-C	●	52	6	50	22

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

FREZE KAFALARI / FACE MILLS

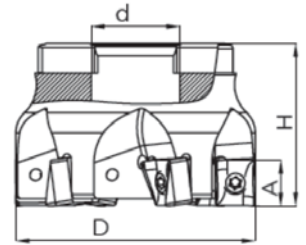


90°



Uç Insert	Vida Screw	Anahtar Torx Key
APKT1103...	SM2,5X7	T08
APKT16T3...	SM4X12	T15

Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)
MCG040-05-AP11	●	40	5	45	16
MCG050-06-AP11	●	50	6	50	22
MCG063-07-AP11	●	63	7	50	22
MCG040-04-AP16	●	40	4	45	16
MCG050-05-AP16	●	50	5	45	22
MCG063-05-AP16	●	63	5	45	22
MCG080-07-AP16	●	80	7	52	27



90°



Uç Insert	Vida Screw	Anahtar Torx Key
LNMX1006...	SM3X10	T10
LNMX1510...	SM4X14	T15

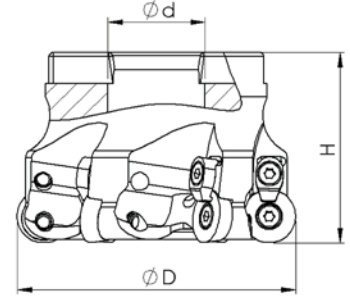
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)
MCK040-04-LN10-C	●	40	4	40	16
MCK040-05-LN10-C	●	40	5	40	16
MCK050-06-LN10-C	●	50	6	40	22
MCK050-04-LN15-C	●	50	4	40	22
MCK063-06-LN15-C	●	63	6	40	22
MCK080-07-LN15-C	●	80	7	52	27
MCK100-08-LN15-C	●	100	8	52	32
MCK125-10-LN15	●	125	10	62	40
MCK160-12-LN15	●	160	12	62	40

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

FREZE KAFALARI / FACE MILLS

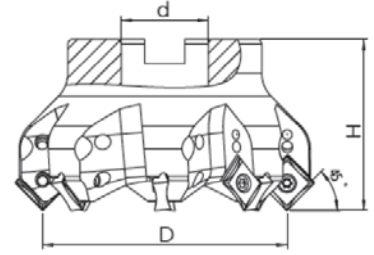


90°



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

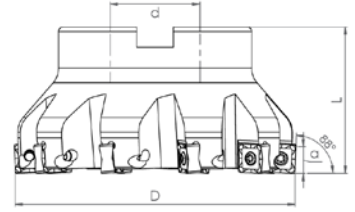
FREZE KAFALARI / FACE MILLS



45°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Pabuç Clamp	 Vida Screw	 Anahtar Torx Key
MCK050-05-SN12-45	●	50	5	40	22	SNMX1205 SNMX1206	SM4X11	CCK15M	M4X11	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	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MCK050-05-SN12-88-C	●	50	5	40	22	SNMX1206...	SM4,5X11	T20
MCK063-06-SN12-88-C	●	63	6	40	22			
MCK080-08-SN12-88-C	●	80	8	50	27			
MCK100-10-SN12-88-C	●	100	10	50	32			
MCK125-11-SN12-88	●	125	11	62	40			
MCK160-12-SN12-88	●	160	12	62	50			
MCK200-14-SN12-88	●	200	14	62	60			

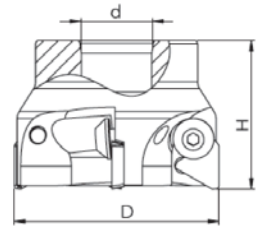
* SNMX1205 uçlar için SM4x12x6 cıvata kullanınız. * Use SM4x12x6 screws for SNMX1205 inserts.

● Stok ürün - Stock item

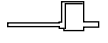
○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

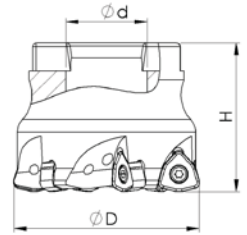
FREZE KAFALARI / FACE MILLS



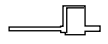
90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MCG050-03-TP16	●	50	3	41	22	TPKN16...	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	TPKN22...	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			

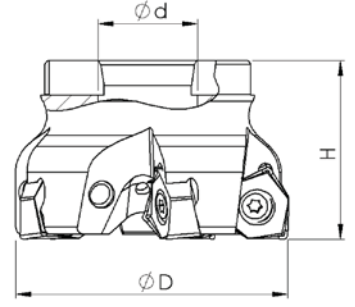


14°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MCK040-04-W N09-C	●	40	4	40	16	W NGX09T3...	SM3X10	T10
MCK050-04-W N09-C	●	50	4	40	22			
MCK052-04-W N09-C	●	52	4	40	22			
MCK052-05-W N09-C	●	52	5	40	22			
MCK052-06-W N09-C	●	52	6	40	22			
MCK063-05-W N09-C	●	63	5	40	22			
MCK066-06-W N09-C	●	66	6	50	22			
MCK066-06-W N09-C	●	66	6	50	27			

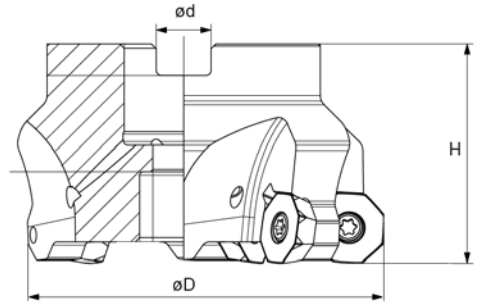
FREZE KAFALARI / FACE MILLS



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MCY050-04-W N08-C	●	50	4	40	22	W NMU0806...	SM5X12	T20
MCY052-04-W N08-C	●	52	4	40	22			
MCY063-05-W N08-C	●	63	5	40	22			
MCY080-06-W N08-C	●	80	6	45	27			
MCY100-07-W N08-C	●	100	7	50	32			
MCY125-08-W N08	●	125	8	50	40			
MCY160-10-W N08	●	160	10	62	40			
MCY200-12-W N08	●	200	12	62	50			

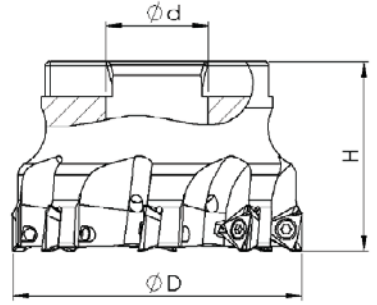


45°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		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			

FREZE KAFALARI / FACE MILLS

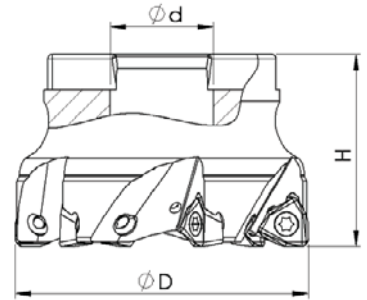


90°



Uç Insert	Vida Screw	Anahtar Torx Key
3PKT1505...	M4,5X12	T20
3PKT1004...	M3X8	T10

Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)
MCT050-04-3P15-C	●	50	4	40	22
MCT063-05-3P15-C	●	63	5	40	22
MCT080-07-3P15-C	●	80	7	50	27
MCT100-08-3P15-C	●	100	8	50	32
MCT040-04-3P10 -C	●	40	4	40	16
MCT050-05-3P10-C	●	50	5	40	22
MCT063-08-3P10-C	●	63	8	40	22



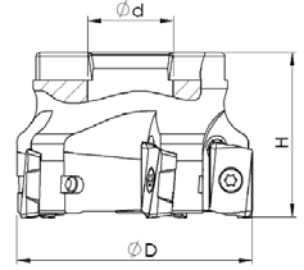
90°



Uç Insert	Vida Screw	Anahtar Torx Key
6NGU0604...	M3X8	T10
6NGU0905...	M4X11	T15

Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)
MCT040-04-6N06-C	●	40	4	40	16
MCT050-05-6N06-C	●	50	5	40	22
MCT063-06-6N06-C	●	63	6	40	22
MCT050-05-6N09-C	●	50	5	40	22
MCT063-06-6N09-C	●	63	6	40	22
MCT080-07-6N09-C	●	80	7	50	27
MCT100-08-6N09-C	●	100	8	50	32
MCT125-10-6N09	●	125	10	62	40

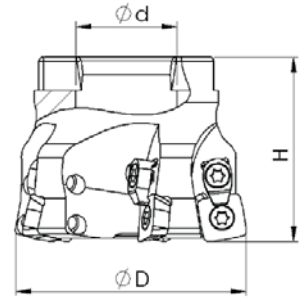
FREZE KAFALARI / FACE MILLS



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)		Uç Insert	Vida Screw	Anahtar Torx Key
MCS040-05-R311-C	●	40	5	40	16		R39011T3...	M2,5X7	T08
MCS050-06-R311-C	●	50	6	40	22				
MCS063-07-R311-C	●	63	7	50	22				



10°

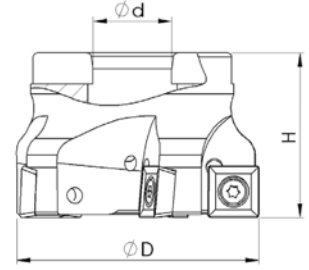


Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H(mm)	d (mm)		Uç Insert	Vida Screw	Pabuç Clamp	Vida Screw	Anahtar Torx Key
MCZ040-04-SD09-C	●	40	4	40	16		SDMT09T3...	M3,5X11		M3,5X11	T15
MCZ050-04-SD09-C	●	50	4	40	22						
MCZ050-05-SD09-C	●	50	5	40	22						
MCZ052-05-SD09-C	●	52	5	40	22						
MCZ052-06-SD09-C	●	52	6	40	22						
MCZ060-06-SD09-C	●	60	6	40	22						
MCZ063-06-SD09-C	●	63	6	40	22						
MCZ080-07-SD09-C	●	80	7	50	27						
MCZ100-08-SD09-C	●	100	8	50	32						

FREZE KAFALARI / FACE MILLS



90°

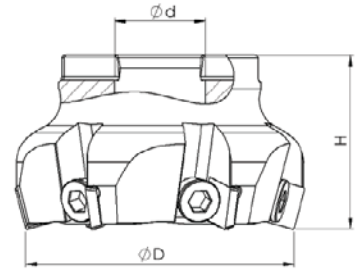


Uç Insert	Vida Screw	Anahtar Torx Key
SPMT1204...	M4,5X12	T20

Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)
MCW 050-04-SP12-C	●	50	4	45	22
MCW 063-05-SP12-C	●	63	5	50	22



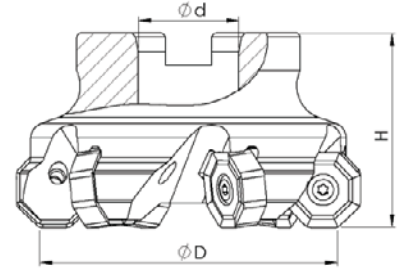
75°



Uç Insert	Vida Screw	Anahtar Torx Key
SPKN1203...	M8X1 L	A6

Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)
MCG063-05-SP12	●	63	5	40	22
MCG080-06-SP12	●	80	6	50	27
MCG100-08-SP12	●	100	8	50	32
MCG125-10-SP12	●	125	10	62	40
MCG160-12-SP12	●	160	12	62	40
MCG200-12-SP12	●	200	12	62	60

FREZE KAFALARI / FACE MILLS

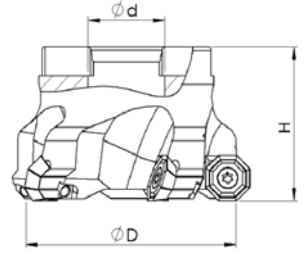


45°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MCZ050-04-0 N08-C	●	50	4	50	22	ONHU08T6...	M4,5X15	T20
MCZ080-06-0 N08-C	●	80	6	50	27			
MCZ100-07-0 N08-C	●	100	7	50	32			
MCZ125-08-0 N08	●	125	8	62	40			
MCZ160-10-0 N08	●	160	10	62	40			

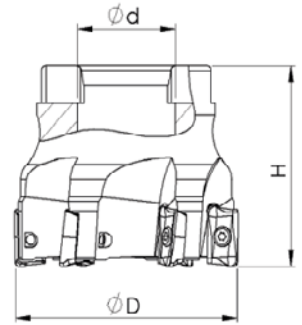
FREZE KAFALARI / FACE MILLS



40°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)		Uç Insert	Vida Screw	Anahtar Torx Key
MCE050-04-OD06-C	○	50	4	40	16		ODMT0605...		
MCE063-05-OD06-C	○	63	5	40	22				
MCE80-05-OD06-C	○	80	5	50	27				
MCE080-06-OD06-C	○	80	6	50	27				
MCE100-06-OD06-C	○	100	6	50	32				
MCE100-07-OD06-C	○	100	7	50	32				
MCE125-07-OD06-C	○	125	7	63	40				
MCE125-08-OD06-C	○	125	8	63	40				
MCE160-10-OD06	○	160	10	63	40				

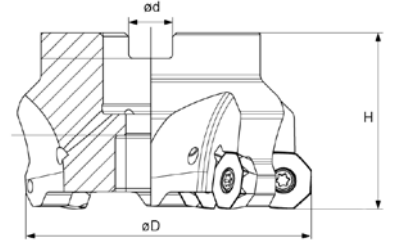


90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)		Uç Insert	Vida Screw	Anahtar Torx Key
MCE050-05-AP17-C	○	50	5	40	22		APKT1705...		
MCE063-06-AP17-C	●	63	6	40	22				
MCE080-06-AP17-C	●	80	6	50	27				
MCE100-08-AP17-C	○	100	8	50	32				

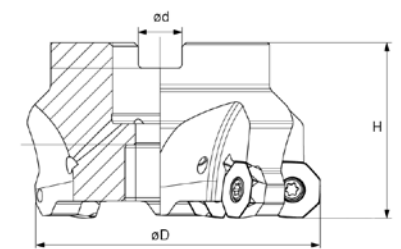
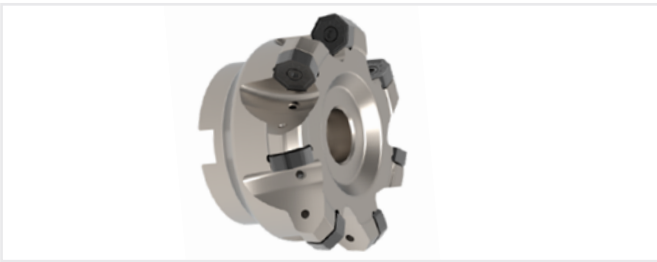
FREZE KAFALARI / FACE MILLS



45°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key	 Altık Shim	 Altık Vidası Shim Screw	 Altık Vidası Anahtarı Shim Screw Wrench
MCE040-03-XN07-C	○	40	3	40	6	XNMU0705...	M3.5X12	T15	S-XN07030	SS0585F	A3.5
MCE050-04-XN07-C	○	50	4	40	22						
MCE050-05-XN07-C	○	50	5	40	22						
MCE063-05-XN07-C	●	63	5	40	22						
MCE063-06-XN07-C	●	63	6	40	22						
MCE080-06-XN07-C	●	80	6	50	27						
MCE080-07-XN07-C	●	80	7	50	27						
MCE100-07-XN07-C	●	100	7	50	32						
MCE100-08-XN07-C	●	100	8	50	32						
MCE125-08-XN07-C	●	125	8	63	40						
MCE125-10-XN07-C	○	125	10	63	40						
MCE160-09-XN07	○	160	9	63	40						
MCE160-12-XN07	○	160	12	63	40						
MCE200-14-XN07	○	200	14	63	60						

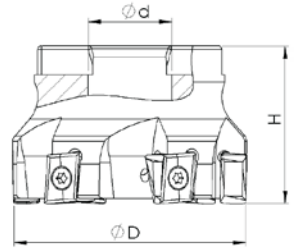
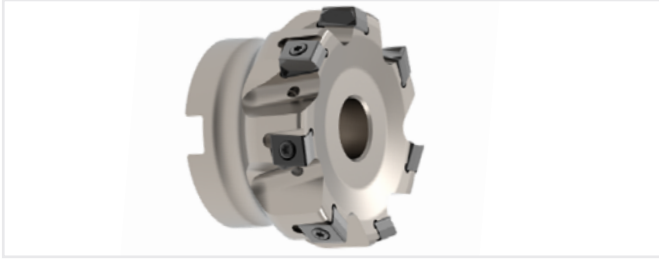


45°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key	 Altık Shim	 Altık Vidası Shim Screw	 Altık Vidası Anahtarı Shim Screw Wrench
MCE063-05-XN09-C	○	63	5	40	22	XNMU0906...	M5X13	T20	S-XN09040	SS0810F	A5
MCE080-06-XN09-C	○	80	6	50	27						
MCE100-07-XN09-C	○	100	7	50	32						
MCE100-08-XN09-C	○	100	8	50	32						
MCE125-08-XN09-C	○	125	8	63	40						
MCE125-10-XN09-C	○	125	10	63	40						
MCE160-09-XN09	○	160	9	63	40						
MCE160-11-XN09	○	160	11	63	40						
MCE200-12-XN09	○	200	12	63	60						
MCE250-12-XN09	Δ	250	12	63	60						
MCE315-14-XN09	Δ	315	14	63	60						

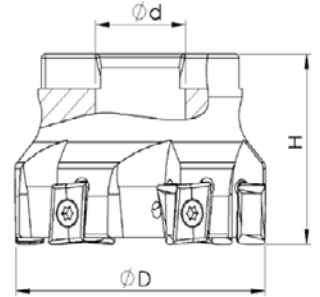
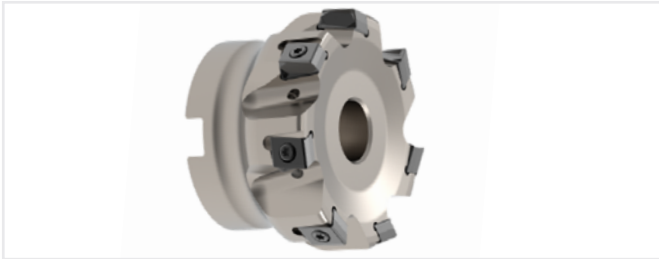
FREZE KAFALARI / FACE MILLS



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MCE040-04-LN09-C	○	40	4	40	16	LNHU0904...	SM3X8.3	T09
MCE040-06-LN09-C	○	40	6	40	16			
MCE050-05-LN09-C	○	50	5	40	22			
MCE050-07-LN09-C	○	50	7	40	22			
MCE063-07-LN09-C	○	63	7	40	22			
MCE063-10-LN09-C	○	63	10	40	22			
MCE080-09-LN09-C	○	80	9	50	27			
MCE080-13-LN09-C	○	80	13	50	27			

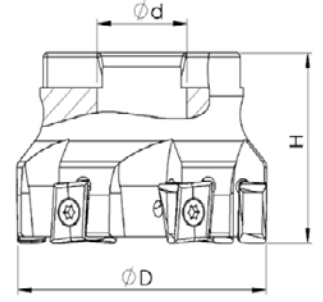
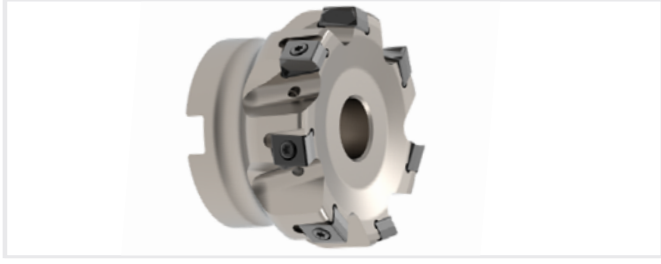


90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MCE063-04-LN16-C	○	63	4	40	22	LNHU1607...	M5X13 A63	T20
MCE080-05-LN16-C	○	80	5	50	27			
MCE100-06-LN16-C	○	100	6	50	32			
MCE125-07-LN16-C	○	125	7	63	40			
MCE160-08-LN16-C	○	160	8	63	40			

FREZE KAFALARI / FACE MILLS

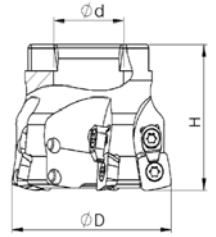
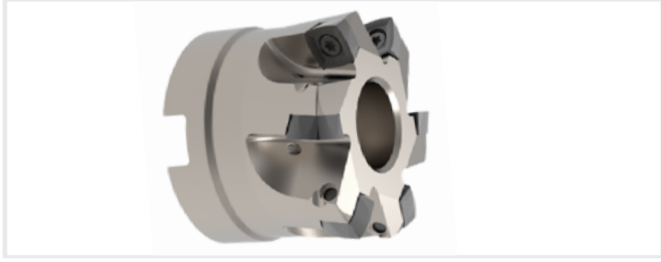


90°



								
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MCE040-04-LN13-C	○	40	4	40	16	LNHU1306...	SM4X11.2	T15
MCE040-05-LN13-C	○	40	5	40	16			
MCE050-05-LN13-C	○	50	5	40	22			
MCE050-06-LN13-C	○	50	6	40	22			
MCE063-04-LN13-C	○	63	4	40	22			
MCE063-06-LN13-C	○	63	6	40	22			
MCE063-08-LN13-C	○	63	8	40	22			
MCE080-05-LN13-C	○	80	5	50	27			
MCE080-07-LN13-C	○	80	7	50	27			
MCE080-10-LN13-C	○	80	10	50	27			
MCE100-07-LN13-C	○	100	7	50	32			
MCE100-09-LN13-C	○	100	9	50	32			
MCE100-13-LN13-C	○	100	13	50	32			
MCE125-09-LN13-C	○	125	9	63	40			
MCE125-11-LN13-C	○	125	11	63	40			
MCE125-16-LN13-C	○	125	16	63	40			
MCE160-09-LN13	○	160	9	63	40			
MCE160-13-LN13	○	160	13	63	40			
MCE200-12-LN13	○	200	12	63	60			
MCE250-12-LN13	○	250	12	63	60			

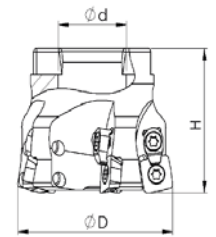
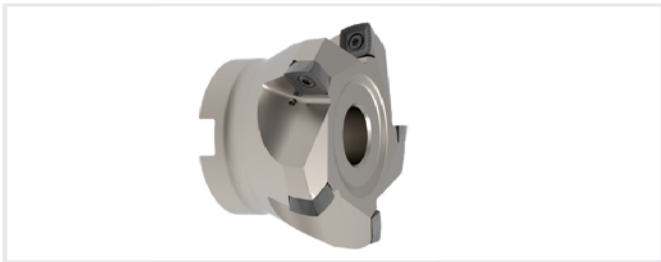
FREZE KAFALARI / FACE MILLS



15°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MCE040-03-SD09-C	○	40	3	32	16	SDMT0904...	M3.5X8.6	T10
MCE040-04-SD09-C	●	40	4	32	16			
MCE040-05-SD09-C	○	40	5	32	16			
MCE050-05-SD09-C	●	50	5	40	22			
MCE050-06-SD09-C	○	50	6	40	22			

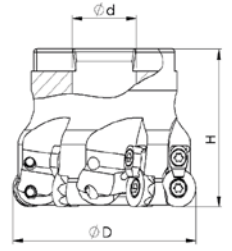


15°



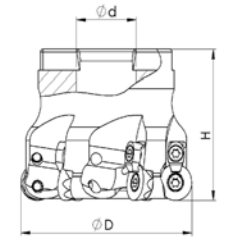
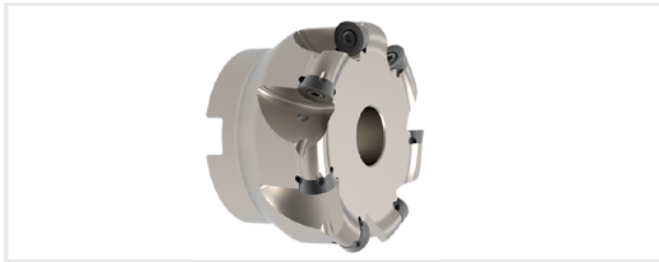
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MCE052-03-SD12-C	○	52	3	40	22	SDMT1205...	M4X11.2	DT-TP10
MCE052-04-SD12-C	●	52	4	40	22			
MCE052-05-SD12-C	○	52	5	40	22			
MCE063-04-SD12-C	●	63	4	40	22			
MCE063-05-SD12-C	○	63	5	40	22			
MCE066-04-SD12-C	○	66	4	45	27			
MCE066-05-SD12-C	○	66	5	45	27			
MCE080-05-SD12-C	●	80	5	50	27			
MCE080-08-SD12-C	●	80	8	50	27			
MCE100-06-SD12-C	●	100	6	50	32			
MCE100-09-SD12-C	○	100	9	50	32			
MCE125-08-SD12-C	○	125	8	63	40			
MCE125-11-SD12-C	○	125	11	63	40			

FREZE KAFALARI / FACE MILLS



Uç Insert	Vida Screw	Anahtar Torx Key
RPHX10T3...	M3X7.2	T09
	M3X7.2	T09

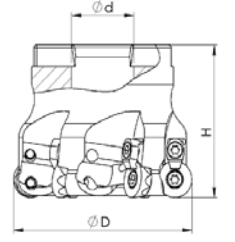
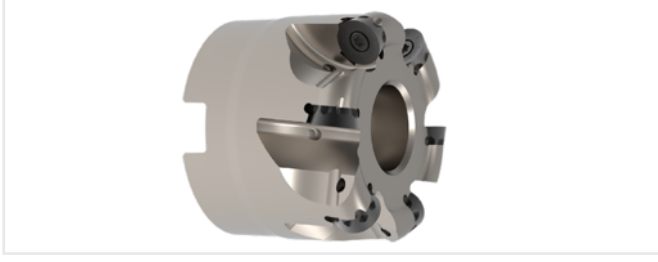
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)
MCE030-05-RP10-C	●	30	5	40	16
MCE040-06-RP10-C	●	40	6	40	22



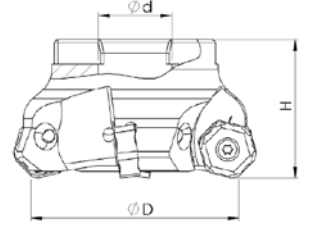
Uç Insert	Vida Screw	Anahtar Torx Key
RPHX1204...	M4X8.5	T10

Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)
MCE040-04-RP12-C	○	40	4	40	16
MCE050-05-RP12-C	●	50	5	40	22
MCE063-06-RP12-C	●	63	6	40	22
MCE080-07-RP12-C	○	80	7	50	27

FREZE KAFALARI / FACE MILLS



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)		Uç Insert		Vida Screw		Anahtar Torx Key
MCE063-05-RP16-C	●	63	5	40	22		RPHX1605...		M5X12		T20
MCE080-06-RP16-C	●	80	6	50	27						
MCE100-07-RP16-C	●	100	7	50	32						



45°



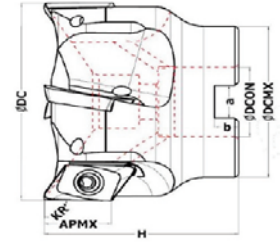
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)		Uç Insert		Vida Screw		Anahtar Torx Key
MCE063-04-HN09-C	○	63	4	40	22		HNGX0906...		M4.5X12		T15
MCE063-05-HN09-C	○	63	5	40	22						
MCE080-05-HN09-C	○	80	5	50	27						
MCE080-06-HN09-C	○	80	6	50	27						
MCE100-06-HN09-C	○	100	6	50	32						
MCE100-08-HN09-C	○	100	8	50	32						
MCE100-10-HN09-C	○	100	10	50	32						
MCE125-06-HN09-C	○	125	6	63	40						
MCE125-10-HN09-C	○	125	10	63	40						
MCE125-12-HN09-C	○	125	12	63	40						
MCE160-08-HN09	△	160	8	63	40						
MCE160-12-HN09	△	160	12	63	40						

● Stok ürün - Stock item

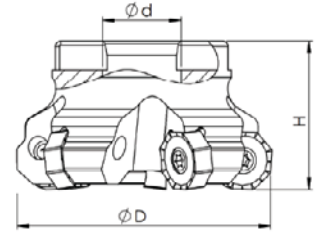
○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

FREZE KAFALARI / FACE MILLS

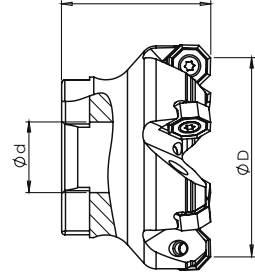


Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	a	b	APMX	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MCK040-03-XE19-C	○	40	3	45	34	8.8	6	17	XEKT19...	SM4X10	T15
MCK050-04-XE19-C	○	50	4	50	42	9.6	6.3	17			
MCK063-04-XE19-C	○	63	4	50	48	10.3	6.3	17			
MCK080-05-XE19-C	○	80	5	50	57	12.3	7.3	17			
MCK100-06-XE19-C	○	100	6	52	70	12.3	8.3	17			
MCK125-07-XE19-C	○	125	7	54	87	16.3	9.3	17			



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MCZ063-05-ON06	●	63	5	40	22	ONHU0604...	M5X12	T20
MCZ080-07-ON06	●	80	7	50	27			
MCZ100-08-ON06	●	100	8	52	32			
MCZ125-09-ON06	●	125	9	62	40			

FREZE KAFALARI / FACE MILLS

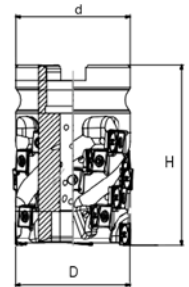
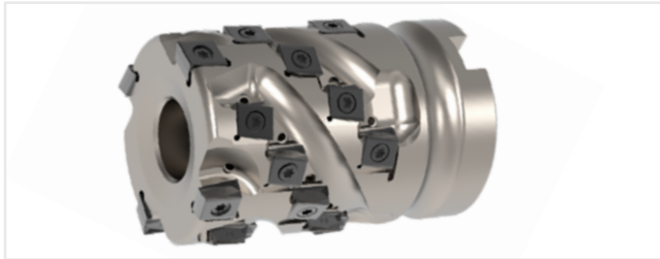


44°

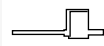


Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MCI040-03-ON05-C	●	40	3	40	16	ONMU0505..	M4.5X12	T20
MCI050-04-ON05-C	●	50	4	40	22			
MCI063-06-ON05-C	●	63	6	45	22			
MCI080-07-ON05-C	●	80	7	52	27			
MCI100-08-ON05-C	●	100	8	52	32			
MCI125-09-ON05	●	125	9	62	40			
MCI160-10-ON05	●	160	10	62	40			

HELİSEL FREZELER/ HELICAL MILLING CUTTERS

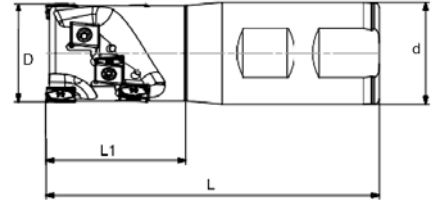


90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		H (mm)	d (mm)	Sıra Row	Toplam Uç Sayısı Total Insert	Uç Insert	Vida Screw	Anahtar Torx Key	Anahtar Installation Wrench
MCE040-03/12-LN09-C	○	40	3	55	16	4	12	LNHU0904..	M3X8.3	T09	A15/24
MCE040-03/15-LN09-C	○	40	3	65	16	5	15				
MCE050-03/24-LN09-C	○	50	4	75	22	6	24				

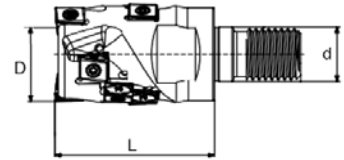
HELİSEL FREZELER/ HELICAL MILLING CUTTERS



90°



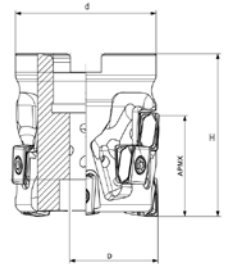
Takim Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Uç Insert	Sıra Row	Toplam Uç Sayısı Total Insert	APMX	Vida Screw	Anahtar Torx Key	Anahtar Installation Wrench
MSE025-02/08-LN09-100-C	○	25	2	43	100	25	LNHU0904..	4	8	31	M3X8.3	T09	A15/24
MSE032-02/08-LN09-105-C	○	32	2	44	105	32		5	10	39			
MSE032-02/10-LN09-110-C	○	32	2	50	110	32			15				
MSE040-03/15-LN09-125-C	○	40	3	55	125	40			6	18			
MSE040-03/18-LN09-130-C	○	40	3	59	130	40							



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	M	Sıra Row	Toplam Uç Sayısı Total Insert	APMX	Uç Insert	Vida Screw	Anahtar Torx Key	Anahtar Installation Wrench
MTE025-02/06-LN09-C	○	25	2	40	64	12.5	M12	3	6	23	LNHU0904..	M3X8.3	T09	A15/24
MTE032-02/06-LN09-C	○	32	2	40	67	17	M16	3	6	23				
MTE032-02/08-LN09-C	○	32	2	50	77	17	M16	4	8	31				



90°



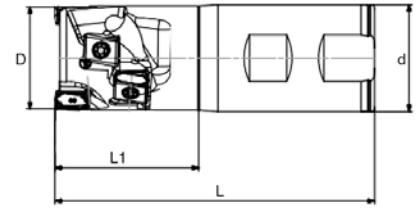
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MCE040-02/06-LN13-C	○	40	2	55	16	3	6	34	LNHU1306..	M4X11.5	T15	M8X40
MCE040-02/08-LN13-C	○	40	2	65	16	4	8	45				M8X4.5
MCE050-03/09-LN13-C	○	50	3	55	22	3	9	34				M10X40
MCE050-03/12-LN13-C	○	50	3	65	22	4	12	45				M10X50
MCE063-04/20-LN13-C	○	63	4	80	27	5	20	56				M12X60
MCE063-04/16-LN13-C	○	63	4	70	27	4	16	45				M12X50
MCE080-05/25-LN13-C	○	80	5	85	32	5	25	56				M16X65

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

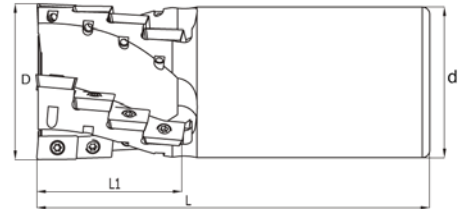
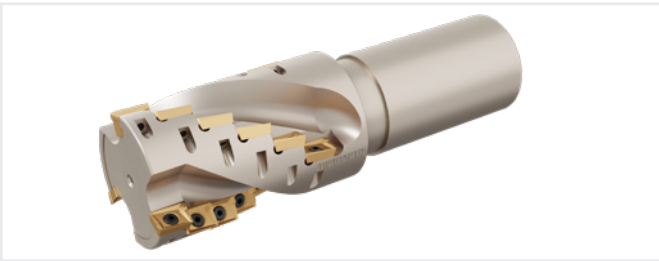
HELİSEL FREZELER/ HELICAL MILLING CUTTERS



90°



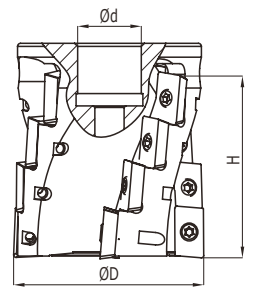
Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	Sıra Row	Toplam Uç Sayısı Total Insert	APMX	Uç Insert	Vida Screw	Anahtar Torx Key
MSE040-02/06-LN13-120-C	○	40	2	54	120	40	3	6	34	LNHU1306..	M4X11.5	T15
MSE040-02/08-LN13-135-C	○	40	2	64	135	40	4	8	45			



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L (mm)	L1 (mm)	d (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MSG020-06-AP10-110-C	●	20	6	110	27	20	AP1003..	M2,5X7	T08
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	Stok Durumu Stock Availability	D (mm)		H	d	Uç Insert	Vida Screw	Anahtar Torx Key
MCG050-12-AP16	●	50	12	42	22	AP1604	M3,5X8	T15
MCG063-16-AP16	●	63	16	56	22			
MCG080-25-AP16	●	80	25	70	27			

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

HELİSEL FREZELER/ HELICAL MILLING CUTTERS

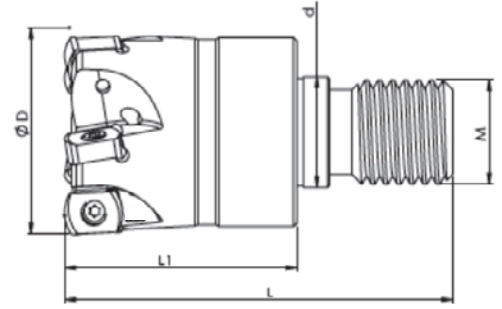
- Önerilen kesme koşulları her zaman genel koşulları ifade eder. Bu kesme koşulları; makine rijitliği, kullanılan takım, iş parçasının bağlanma şekli ve soğutma sıvısına göre pratikte ayarlanmalıdır. Ortalama talaş kalınlığı (hm) = fz x sin(kr).

*The recommended cutting conditions always refer to general conditions. These cutting conditions should be adjusted according to the practical machine rigidity, tools, workpiece clamping and coolant. Average chip thickness (hm)=fz x sinkr.

Materyal/Materials				Kesme Derinliği ve İlerleme/Cutting depth and feed LNHU 0904..					
ISO	Malzeme Sınıflandırması Material classification	Çekme Dayanımı Tensile strength (N/mm ²)	Sertlik Hardness (HB)	ap		Talaş kırıcı/Chipbreaker			
						M4		R2	
						fz (mm)		fz (mm)	
				min	max	min	max	min	max
	Alaşımsız Çelik/Unalloyed steel	<600	<180	3.00	46.00	0.08	0.25	-	-
		<950	<280						
	Alaşımlı Çelik/Alloyed steel	700-950	200-280						
		950-1200	280-355						
	Dupleks Paslanmaz Çelik/Duplex stainless	778	230			0.06	0.20	-	-
		675	200						
	Östenitik Paslanmaz Çelik/Austenitic stainless	1013	300						
		700	220						
	Sfere Dökme Demir /Nodular cast iron	880	260			0.08	0.28	-	-
		800	250						
	Temper Dökme Demir/Malleable cast iron	260	75						
		447	130						
	Alüminyum/Aluminum	943	280			-	-	0.06	0.25
		1076	320						
	Nikel Esaslı Alaşım/Ni-based alloy	1177	350						
		1262	370						
	Sertleştirilmiş Çelik/Hardened steel	-	50-60HRC			0.08	0.15	-	-
		-	55HRC						
	Beyaz Dökme Demir/Chilled cast iron	-	-						
		-	-						

Materyal/Materials				Kesme Derinliği ve İlerleme/Cutting depth and feed LNHU 0904..					
ISO	Malzeme Sınıflandırması Material classification	Çekme Dayanımı Tensile strength (N/mm ²)	Sertlik Hardness (HB)	ap		Talaş kırıcı/Chipbreaker			
						M4		R2	
						fz (mm)		fz (mm)	
				min	max	min	max	min	max
	Alaşımsız Çelik/Unalloyed steel	<600	<180	3.00	46.00	0.08	0.25	0.08	0.28
		<950	<280						
	Alaşımlı Çelik/Alloyed steel	700-950	200-280						
		950-1200	280-355						
	Dupleks Paslanmaz Çelik/Duplex stainless	778	230			0.06	0.20	0.06	0.22
		675	200						
	Östenitik Paslanmaz Çelik/Austenitic stainless	1013	300						
		700	220						
	Sfere Dökme Demir /Nodular cast iron	880	260			0.08	0.28	0.08	0.30
		800	250						
	Temper Dökme Demir/Malleable cast iron	260	75						
		447	130						
	Alüminyum/Aluminum	943	280			-	-	-	-
		1076	320						
	Nikel Esaslı Alaşım/Ni-based alloy	1177	350						
		1262	370						
	Sertleştirilmiş Çelik/Hardened steel	-	50-60HRC			0.08	0.15	-	-
		-	55HRC						
	Beyaz Dökme Demir/Chilled cast iron	-	-						
		-	-						

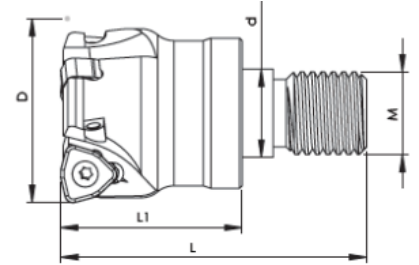
VİDALI TAKIMLAR / SCREW TYPE ENDMILLS



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MTY020-03-LN03-M10-C	●	20	3	36	60	10,5	M10	LNGX0303...	SM3X8	T08
MTY025-04-LN03-M12-C	●	25	4	36	60	12,5	M12			
MTY032-05-LN03-M16-C	●	32	5	38	62	17	M16			
MTY035-05-LN03-M16-C	●	35	5	38	62	17	M16			
MTY040-06-LN03-M16-C	●	40	6	40	65	17	M16			
MTY042-06-LN03-M16-C	●	42	6	40	65	17	M16			

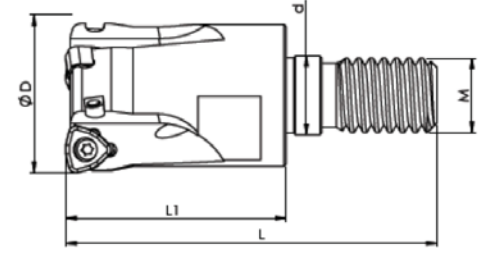


14°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	 Uç Insert	 Vida Screw	 Anahtar Torx Key
MTK025-02-W N09-M12-C	●	25	2	28	50	12,5	M12	WNGX09T3...	SM3X10	T10
MTK032-03-W N09-M16-C	●	32	3	38	60	17	M16			
MTK035-04-W N09-M16-C	●	35	4	38	60	17	M16			
MTK040-04-W N09-M16-C	●	40	4	38	60	17	M16			
MTK042-04-W N09-M16-C	●	42	4	36	60	17	M16			

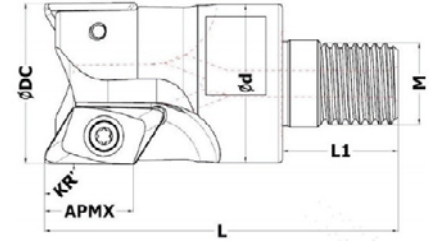
VİDALI TAKIMLAR / SCREW TYPE ENDMILLS



14°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MTK016-02-W N06-M08	●	16	2	25	42	8,5	M8	W NG X0603...	SM2,5X8	T08
MTK020-03-W N06-M10	●	20	3	35	60	10,5	M10			
MTK025-03-W N06-M12	●	25	3	35	60	12,5	M12			
MTK025-04-W N06-M12	●	25	4	35	60	12,5	M12			
MTK032-05-W N06-M16	●	32	5	35	60	17	M16			
MTK035-05-W N06-M16	●	35	5	35	60	17	M16			

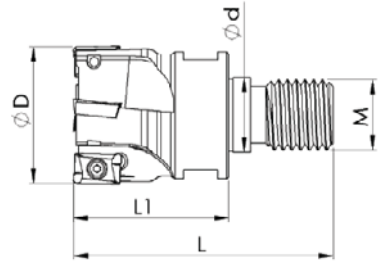


90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	APMX	Uç Insert	Vida Screw	Anahtar Torx Key
MTK025-02-XE19-M12-C	○	25	2	22	68	23	M12	17	XEKT19...	SM4X10	T15
MTK032-02-XE19-M16-C	○	32	2	23	70	31	M16	17			
MTK040-03-XE19-M16-C	○	40	3	23	72	32	M16	17			

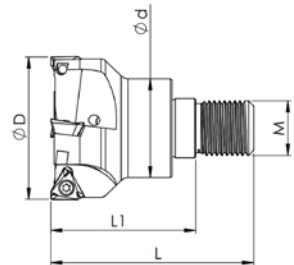
VİDALI TAKIMLAR / SCREW TYPE ENDMILLS



90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MTG016-02-AP10-M08-C	●	16	2	33	50	8,5	M08	APKT1003...	M2,5X7	T06
MTG020-03-AP10-M10-C	●	20	3	32	51	10,5	M10			
MTG025-03-AP10-M12-C	●	25	3	38	60	12,5	M12			
MTG032-04-AP10-M16-C	●	32	4	36	60	17	M16			
MTG035-04-AP10-M16-C	●	35	4	36	60	17	M16			
MTG040-05-AP10-M16-C	●	40	5	36	60	17	M16	APKT1604...	M3,5X8	T15
MTG025-02-AP16-M12-C	●	25	2	38	60	12,5	M12			
MTG032-03-AP16-M16-C	●	32	3	44	68	17	M16			
MTG040-04-AP16-M16	●	40	4	44	68	17	M16			

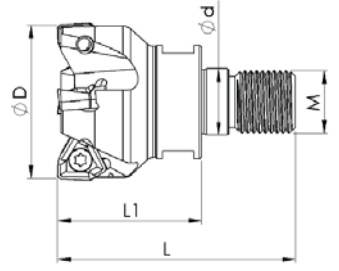


90°



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MTT032-04-3PKT10-M16	●	32	4	36	60	17	M16	3PKT1004...	M3X8	T10
MTT042-04-3PKT10-M16	●	42	4	36	60	17	M16			

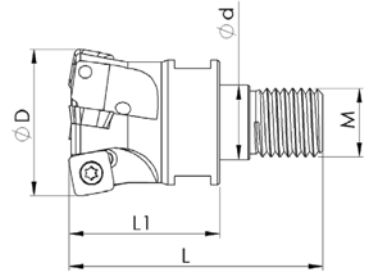
VİDALI TAKIMLAR / SCREW TYPE ENDMILLS



90°



		
Uç <i>Insert</i>	Vida <i>Screw</i>	Anahtar <i>Torx Key</i>
SNKT0603...	M3X8	T10

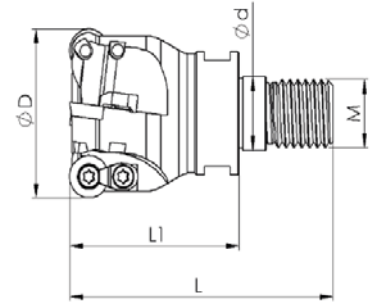


10°

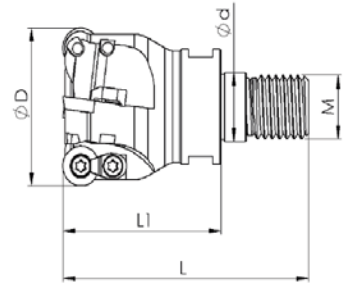


		
Uç <i>Insert</i>	Vida <i>Screw</i>	Anahtar <i>Torx Key</i>
SDMT09T3...	M3,5X8	T15

VİDALI TAKIMLAR / SCREW TYPE ENDMILLS



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MTE015-03-RP10-M12-C	○	15	3	35	57	12.5	M12	RPHX10T3...	M3X7.2	T09
MTE022-04-RP10-M16-C	○	22	4	43	67	17	M16			



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)		L1 (mm)	L (mm)	d (mm)	M (mm)	Uç Insert	Vida Screw	Anahtar Torx Key
MTE040-04-RP12-M16-C	○	40	4	43	67	17	M16	RPHX1204...	M4X8.5	T10

Screw-on Arbor



Takım Kodu Order Code	Stok Durumu Stock Availability	D (mm)	d (mm)	M (mm)	L (mm)	I (mm)
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

● Stok ürün - Stock item

○ Stok dışı ürün - Non Stock item

△ Özel Sipariş - Special order

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