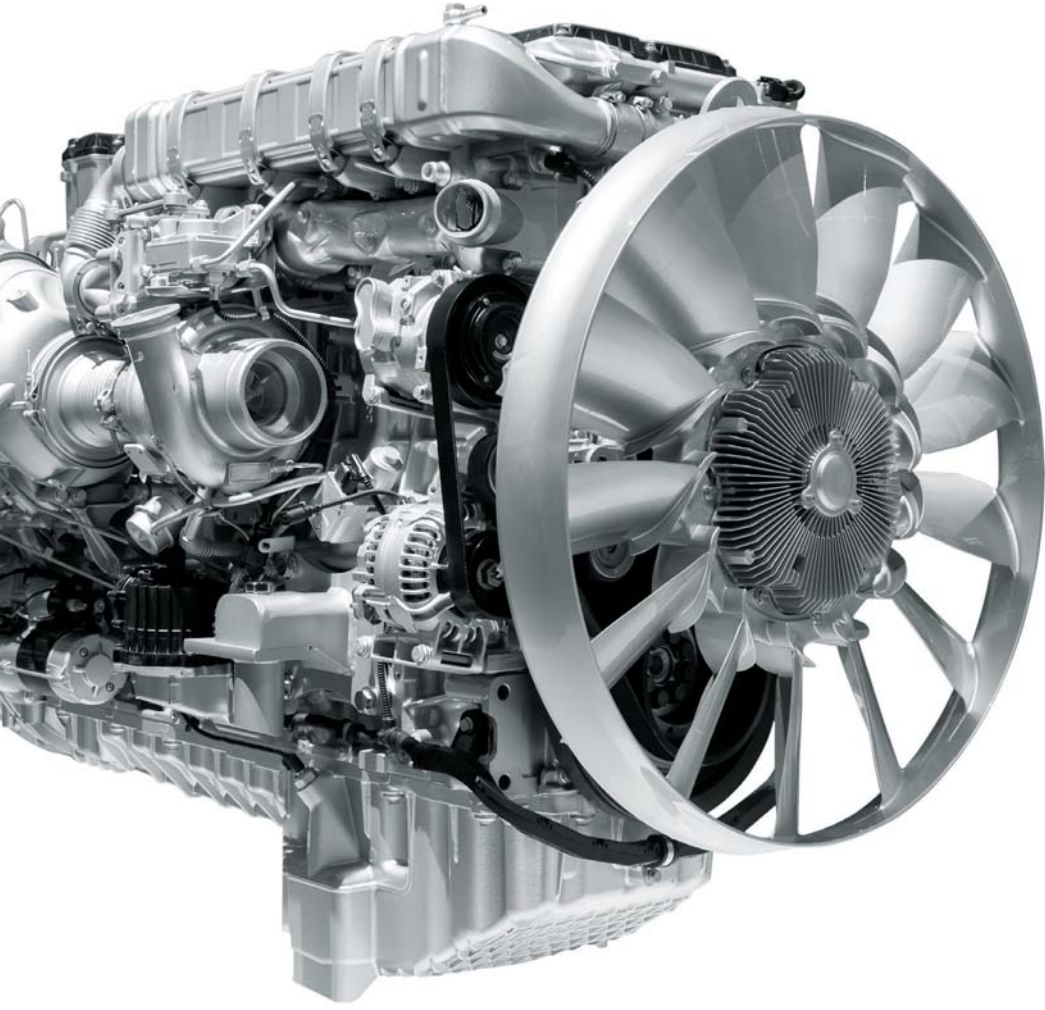


# KORLOY

*KORLOY KESİCİ TAKIMLAR KATALOĞU*

## KESİCİ TAKIMLAR





Çeşitli Yüksek Performanslı Takımlar  
**KORLOY KESİCİ TAKIMLAR**





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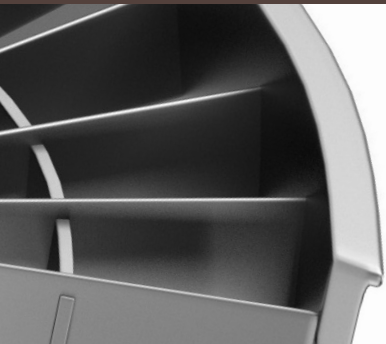
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# Kaliteler/Talaş Kırıcılar

Korloy'un yeni kaliteleri, her uygulama için en uygun alt tabaka ile tasarlanmıştır; Yüksek sıcaklık, yüksek sertlik ve oksidasyon direnci için PVD kaplamalı veya yüksek sıcaklık ve aşınma direnci için CVD kaplıdır. Buna ek olarak, iyileştirilmiş kaplama sonrası işlem, en üst düzeyde kalite ve üretkenlik sağlamak için üstün yüzey finişleri sağlar.

KORLOY Kalitelerin Seçimi

CVD Kaplamalı Kaliteler

PVD Kaplamalı Kaliteler

Sermet Kaliteler

Kaplamasız Karbür Kaliteler

cBN Kaliteler

PCD Kaliteler

Talaş Kırıcılar



# Korloy Kalitelerinin Seçimi

## ► Parmak Freze

Malzeme	kalite	ISO	Uygulama Aralığı
P	Çelik	PC303S <i>New</i>	P01
		PC310U <i>New</i>	P10
		PC315F <i>New</i>	P20
		PC320 <i>New</i>	P30
M	Paslanmaz Çelik	PC303S <i>New</i>	P40
		PC310U <i>New</i>	M01
		PC320S <i>New</i>	M10
		PC315E <i>New</i>	M20
K	Döküm	PC303S <i>New</i>	M30
		PC310U <i>New</i>	K01
		PC315F <i>New</i>	K10
		PC320 <i>New</i>	K20
N	Demir dışı	ND3000	K30
		PD3000	K40
		H01	N01
		H05S	N05
S	HRSA	PC210C	N10
		PC210	N20
		PC320S <i>New</i>	N30
		PC315E <i>New</i>	S10
H	Yüksek Sertlikli Çelik	PC303S <i>New</i>	S20
		PC203F <i>New</i>	S30
		PC310U <i>New</i>	H01
			H10
			H20

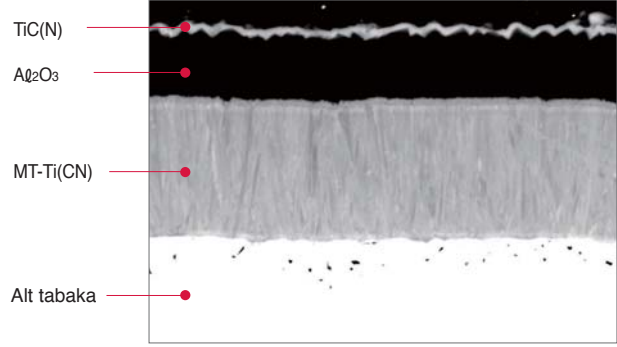
## ► Delik Delme

Malzeme	ISO	Uygulama Aralığı
P	Çelik	P01
		P10
		P20
		P30
M	Paslanmaz Çelik	M01
		M10
		M20
		M30
K	Döküm	K01
		K10
		K20
		K30
N	Demir dışı	N01
		N10
		N20
		N30

# CVD Kaplamalı Kaliteler

## Özellikler

- Yeni kaplama teknolojisinin ürünü olan özel kristal yapı üstün tokluk sağlar.
- Güçlü yapışma kuvvetine sahip çok tabakalı kaplama üstün aşınma direnci sağlar.



CVD kaplamanın yandan görüntüsü

## Kalite Seçim Rehberi

### ► Tornalama

Malzeme	İşleme türleri	Önerilen kalite	Önerilen kesme hızı (m/dk)	ISO	Uygulama Aralığı
P	sürekli kesim	NC3010	295(170~420)	P05	NC3010
		NC3215 <i>New</i>	295(170~420)	P10	NC3215 <i>New</i>
	darbeli kesim	NC3225 <i>New</i>	260(150~370)	P15	NC3225 <i>New</i>
		NC3120	260(120~370)	P20	NC3120
		NC3030	205(120~290)	P25	NC3030
		NC5330	205(120~290)	P30	NC5330
		NC500H	205(120~290)	P35	NC500H
		NC500H	205(120~290)	P40	NC500H
M	sürekli kesim	NC9115 <i>New</i>	240(220~260)	M10	NC9115 <i>New</i>
		NC9125 <i>New</i>	210(190~230)	M20	NC9125 <i>New</i>
	darbeli kesim	NC9135 <i>New</i>	180(160~200)	M30	NC9135 <i>New</i>
		NC9135 <i>New</i>	180(160~200)	M40	NC9135 <i>New</i>
K	sürekli kesim	NC6205	315(180~450)	K01	NC6205
		NC6210	250(130~370)	K10	NC6210
	darbeli kesim	NC6215 <i>New</i>	220(130~310)	K20	NC6215 <i>New</i>
		NC5330	190(110~270)	K30	NC5330
S	sürekli kesim	NC5330	40(20~60)	S10	NC5330
	darbeli kesim	NC5330	40(20~60)	S20	NC5330

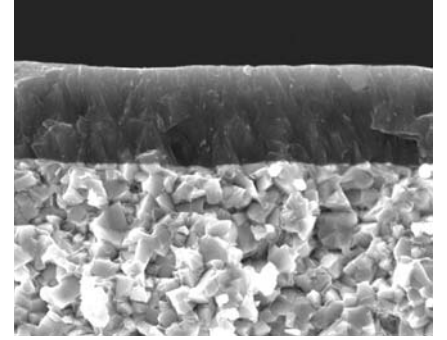
### ► Frezeleme

Malzeme	İşleme türleri	Önerilen kalite	Önerilen kesme hızı (m/dk)	ISO	Uygulama Aralığı
P	sürekli kesim	NC5330	205(120~290)	P20	NC5330
		NC5330	205(120~290)	P25	NC5330
	darbeli kesim	NC5340 <i>New</i>	230(130~330)	P30	NC5340 <i>New</i>
		NCM325	230(130~330)	P35	NCM325
M	sürekli kesim	NC5350 <i>New</i>	205(120~290)	P40	NC5350 <i>New</i>
		NCM335	205(120~290)	P45	NCM335
	darbeli kesim	NC5330	140(80~200)	M10	NC5330
		NC5330	140(80~200)	M20	NC5330
K	sürekli kesim	NC5340 <i>New</i>	155(90~220)	M25	NC5340 <i>New</i>
		NCM325	155(90~220)	M30	NCM325
	darbeli kesim	NC5350 <i>New</i>	140(80~200)	M35	NC5350 <i>New</i>
		NCM335	140(80~200)	M40	NCM335
K	sürekli kesim	NC5330	190(110~270)	K10	NC5330
		NC5340 <i>New</i>	150(80~250)	K20	NC5340 <i>New</i>
				K30	NC5340 <i>New</i>

# PVD Kaplamalı Kaliteler

## Özellikler

- PVD kaplama teknolojisi alt katmanın tokluğunu korurken, kaplama filminin üstün çapaklanma direnci gibi doğal avantajlara sahiptir. Böylece takım ömrünü önemli ölçüde arttırmak mümkündür.
- PVD kaplamaları, alt tabakayı köreltmeden keskin kesme kenarı sağlar.
- Ti esaslı kaplama filmleri, iş parçasıyla düşük etkileşiminden dolayı, mükemmel yüzey kalitesi ve yüksek doğrulukta işleme sağlar.



PVD kaplamanın enine kesit görünüşü

## PVD Kaplamanın Faydaları

- Yüksek hızlı işleme için TiN kaplama çok uygundur.
- TiN tokluğu geleneksel TiN kırılma direncini azaltmak için geliştirilmiştir.
- Dış TiN tabakası sürtünmeyi azaltır ve yüzey düzgünlüğünü artırır.
- Kesme kenarı üzerindeki aşınma miktarını belirlemek kolaydır.

## Kalite Seçim Rehberi

### ► Tornalama

Malzeme	İşleme türleri	Önerilen kalite	Önerilen kesme hızı (m/dk)	ISO	Uygulama Aralığı
P	Çelik	süreklilik kesim	175(100~250)	P30	
			145(80~120)	P40	PC5300
		darbeli kesim	125(80~160)	P50	PC5400 <i>New</i>
M	sürekli kesim	PC8105 <i>New</i>	175(120~230)	M01	
		PC8110	160(110~210)	M10	PC8105 <i>New</i>
		PC8115 <i>New</i>	150(100~200)	M20	PC8110
	darbeli kesim	PC5300	135(80~190)	M30	PC8115 <i>New</i>
		PC9030	130(80~180)	M40	PC5300
		PC5400	110(80~140)	M50	PC9030
S	sürekli kesim	PC8105 <i>New</i>	55(40~70)	S01	
		PC8110	50(35~65)	S10	PC8105 <i>New</i>
		PC8115 <i>New</i>	45(30~60)	S20	PC8110
	darbeli kesim	PC5300	40(20~60)	S30	PC8115 <i>New</i>
		PC5400 <i>New</i>	35(20~50)	S40	PC5300
					PC5400 <i>New</i>
H	Yüksek Sertlikli Çelik	darbeli kesim	PC8110	H01	
		PC8115 <i>New</i>	90(65~115)	H10	PC8110

### ► Frezeleme

Malzeme	İşleme türleri	Önerilen kalite	Önerilen kesme hızı (m/dk)	ISO	Uygulama Aralığı
P	sürekli kesim	PC3600	235(180~290)	P20	
		PC3500	235(180~290)	P30	PC3600
	darbeli kesim	PC5300	195(150~240)	P40	PC3500
		PC5400 <i>New</i>	145(80~210)		PC5300
M	sürekli kesim	PC5300	130(100~160)	M20	
	darbeli kesim	PC9530	125(80~150)	M30	PC5300
		PC5400 <i>New</i>	110(80~140)	M40	PC9530
K	sürekli kesim	PC8110	180(140~230)	K05	
		PC6510	180(140~230)	K10	PC8110
	darbeli kesim	PC5300	145(110~180)	K20	PC6510
		PC5400 <i>New</i>	125(85~160)	K30	PC5300
S	sürekli kesim	PC5300	55(40~70)	S10	
	darbeli kesim	PC5400 <i>New</i>	40(30~50)	S30	PC5300
H	sürekli kesim	PC2005 <i>New</i>	60(40~80)	H01	
		PC2010	55(40~70)	H10	PC2005 <i>New</i>
		PC2015 <i>New</i>	50(35~65)	H20	PC2010
		PC210F	50(35~65)	H30	PC2015 <i>New</i>
					PC210F



# Sermet Kaliteler

## Özellikler

- KORLOY sermet, TiN, TiCN tozları eklenek elde edilen ultra ince bir iç yapıya sahip, karbonitrür türü bir sermettir.
- Ayrıca üstün tokluk, termal şok ve aşınma direncine sahiptir.

## Avantajları

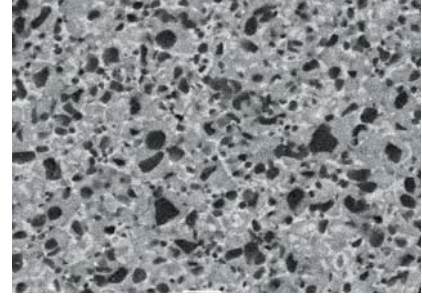
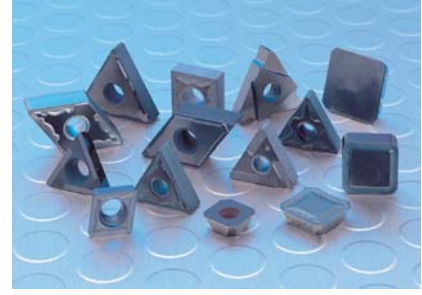
- Cermet, using TiCN as the main component, is harder than cemented carbide and has a lower affinity with ferrous workpieces at high temperatures, thus cermets have special advantages as listed below:

### Kaplamasız karbür ile karşılaştırılması

- Sermet üstün aşınma ve krater aşınma direncine sahip olduğundan daha yüksek kesme hızları uygulanabilir
- Demirli iş parçaları ile olan düşük etkileşimi nedeniyle, düşükten yüksek hıza kadar kesim işlemlerini mümkün kılar ve mükemmel bir yüzey finışı sağlar.
- Yüksek hızda finiş uygulamalarında olağanüstü takım ömrü ve kesme performansı sağlar.

### Kaplamalı karbür ile karşılaştırılması

- Hafif kesim ve finiş için uygundur
- Aynı kesim koşullarında daha iyi aşınma direnci ve yüzeyi finışı elde edilebilir.



Sermetin mikroyapısı

## Kalite Seçme Rehberi

### ► Tornalama

Malzeme	işleme türleri	önerilen kalite	önerilen kesme hızı (m/dk)	ISO	Uygulama Aralığı
P Çelik	sürekli kesim	CN1500 <sup>New</sup>	250(150~350)	P10	CN1500 <sup>New</sup>
	darbeli kesim	CN2500 <sup>New</sup>	220(130~300)	P20	
				P30	CN2500 <sup>New</sup>

### ► Tornalama (Kaplamalı Sermet Kaliteler)

Malzeme	işleme türleri	önerilen kalite	önerilen kesme hızı (m/dk)	ISO	Uygulama Aralığı
P Çelik	sürekli kesim	CC1500 <sup>New</sup>	325(200~450)	P10	CC1500 <sup>New</sup>
	darbeli kesim	CC2500 <sup>New</sup>	265(180~350)	P20	
				P30	CC2500 <sup>New</sup>

### ► Frezeleme

Malzeme	işleme türleri	kalite	önerilen kesme hızı (m/dk)	ISO	Uygulama Aralığı
P Çelik	sürekli kesim	CN2000	250(200~300)	P20	CN2000
	darbeli kesim	CN30	150(100~200)	P30	

# Kaplamasız Karbür Kaliteler

## Özellikler

- Gelişmiş sinterleme teknolojisi sayesinde KORLOY'un kaplamasız karbür kaliteleri, üstün kalitede kesme takımları elde etmek için gerekli olan ince bir alaşım yapısına sahiptir.

## Avantajları

- Her türlü iş parçasının işlenmesi için P, M, K karbür kaliteleri kullanılabilir.
- Karbürün üstün termal çatlak direnci sayesinde ıslak işlemede mükemmel kalite
- Karbürün özel tasarımı nedeniyle ince bir mikroyapıya ve düşük iş parçası ile afinitesine sahiptir.
- Mükemmel tokluğa ve düşük kesme yüklerine sahiptir.



## ► Ana Uygulamalar

Malzeme	Yapısı	Özellikler	Malzeme
P	WC-TiC-TaC-Co	Isı dayanıklılığı, mükemmel plastik deformasyon direnci	Karbonlu Çelik, Alaşımli Çelik, Paslanmaz Çelik
M	WC-TiC-TaC-Co	Güçlü ve stabil ısı direncine sahip genel takımlar	Karbonlu Çelik, Alaşımli Çelik, Paslanmaz Çelik, Dökme Çelik
K	WC-Co	Yüksek dayanç ve üstün aşınma direnci	Döküm, Demir-dışı metal, Plastik, vs.
S	WC-Co	Mükemmel aşınma direnci ve çapaklanma direnci	Titanyum Alaşımı

## ► Kalitelerin Fiziksel Özellikleri

Malzeme	kalite	sertlik (HRA)	TRS (kgf/mm <sup>2</sup> )	Young's modulus (103kgf/mm <sup>2</sup> )	Termal genişleme katsayısı (10 <sup>-6</sup> /°C)	Termal iletkenlik (cal/cm · sn · °C)
P	ST10P	92.1	175	48	6.2	25
	ST20E	91.9	200	56	5.2	45
	A30	91.3	230	53	5.2	-
M	U2	91.1	210	-	-	88
	A30	91.3	230	53	5.2	-
K	H01	92.9	210	66	4.7	109
	G10E	90.9	250	63	-	105
S	H01	92.9	210	66	4.7	109
	H05	91.8	250	-	-	-

1KPa = 102kgf/m<sup>2</sup>, 1w/mk = 2.39x10<sup>-3</sup>cal/cm·sec·°C

# Kaplamasız Karbür Kaliteler

## ► Tornalama

Malzeme	önerilen kalite	önerilen kesme hızı (m/dk)	ISO	Uygulama Araçları
P	Çelik	ST10P	P10	ST10P
		ST20E	P20	ST20E
		A30	P30	A30
M	Paslanmaz Çelik	U2	M25	U2
K	Döküm	H01	K01	H01
		H05	K10	H05
		G10E	K20	G10E
N	Alüminyum Alaşımı	H01	N10	H01
	Bakır Alaşımaları	H05	N20	H05
S	Titanyum Alaşımı	H01	S01	H01
		H05	S10	H05
H	Yüksek Sertlikli Çelik	H01	H10	H01

## ► Frezeleme

Malzeme	kalite	önerilen kesme hızı (m/dk)	ISO	Uygulama Araçları
P	Çelik	A30	P30	A30
M	Paslanmaz Çelik	U2	M20	U2
			M30	
K	Döküm	H01, H05	K10	H01
		G10E	K20	H05
N	Alüminyum Alaşımı	H01	N10	H01
	Bakır Alaşımaları	H05	N20	H05

# cBN Kaliteleri






## Özellikler

- cBN, ultra yüksek basınç ve sıcaklık altında kübik bor nitrür ve özel bir seramik bağlayıcı karışımının sinterlenmesiyle yapılan bir kesici takım malzemesidir.

cBN takımlar sertleştirilmiş çelik ve dökme demirin yüksek hızda hassas işlenmesi için uygundur. cBN, etkin bir şekilde geleneksel taşlama işleminin yerini alabilir.



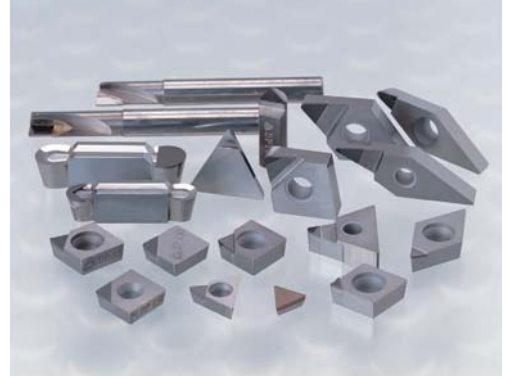
### ► cBN Kalitelerinin Kesme Koşulları

ISO	Kaliteler	Uç Rengi	Uygulama	kesme hızı, vc(m/dk) 150						ilerleme	Kesme derinliği	
				50	100	150	200	250	300			
H ısıt İşlemli Çelik	Kaplama	 DNC100 <sup>New</sup>	yüksek hızda sürekli kesim			180			300	0.03~0.3	0.03~0.3	
		 DNC250	yüksek hızda sürekli ve düşük darbeli kesim		120			220		0.05~0.3	0.05~0.3	
		 DNC350	orta ve yüksek darbeli kesim	90			150			0.05~0.3	0.05~0.3	
		 DNC400 <sup>New</sup>	sürekli ve orta darbeli kesim	90					220	0.05~0.3	0.05~0.5	
	Kaplama-sız	KB410		yüksek hızda sürekli kesim			150			200	0.03~0.13	0.03~0.2
		KB1000		yüksek hızda sürekli kesim			130			250	0.03~0.15	0.03~0.2
		KB420		Yüksek verimli kesim		120			150		0.03~0.3	0.03~0.5
		KB425		yüksek hızda darbeli kesim			150			200	0.03~0.3	0.03~0.5
		KB320		orta ve düşük darbeli kesim	80				120		0.03~0.2	0.03~0.3
		KB2000		orta ve düşük darbeli kesim	80					200	0.03~0.2	0.03~0.3
KB335			yüksek darbeli kesim	80				110		0.03~0.2	0.03~0.3	
KB400			yüksek hız ve yüksek kesme derinliği		120					220	0.10~0.3	0.5

# PCD Kaliteler

## Özellikler

- KORLOY PCD ürünleri, yüksek sıcaklık ve basınç altında yüksek kaliteli PCD uçlar kullanılarak üretilmektedir. PCD uç, kaliteli KORLOY karbür uca kaynatılır. KORLOY'un yüksek kaliteli PCD ürünleri tornalama, frezeleme ve parmak frezelerde çok çeşitli uygulama ihtiyaçlarını karşılar.
  - Alüminyum ve bakır alaşımlarında mükemmel takım ömrü
  - Seramik, yüksek silikonlu alüminyum, kaya ve taşlarda mükemmel takım ömrü
  - Kauçuk, karbon, grafit ve ahşapta mükemmel takım ömrü



## ► PCD Kaliteler












kalite	Özellikler	Uygulama	Tane boyu(μm)	Sertlik(Hv)	TRS(kg/mm <sup>2</sup> )
DP90	Kaba elmas tanesi, sement karbür, yüksek silisli alüminyum alaşımlarının işlenmesine yetecek kadar mükemmel aşınma direnci elde etmek için kullanılmıştır.	Sement karbür Seramiğin kaba işlenmesi Yüksek Si Alüminyum Alaşımı kayalar, taşlar	50	10,000 ~ 12,000	110
DP150	İyi bağlanma özelliklerine sahip ince elmas taneleri içeren bu kalite, demir dışı metaller, grafit, vb. işleme için uygundur.	yüksek Si Alüminyum Alaşım bakır, Bronze alaşım Rubber, tahta, karbon	5	10,000 ~ 12,000	200
DP200	Çok ince elmas taneleri kullanarak, keskin bir kesme kenarı yapmak mümkündür. Bu nedenle, bu kalite, demir dışı malzemeleri işlemek için uygundur	Plastik Odun Alüminyumun hassas işlenmesi	0.5	8,000 ~ 10,000	220

## ► Önerilen Kesme Koşulları

Malzeme	Kesme hızı(m/dk)	İlerleme(mm/rev)	Kesme derinliği(mm)	Önerilen kalite	
				1 <sup>st</sup>	2 <sup>nd</sup>
Alüminyum alaşımı(4%~8%Si)	1000 ~ 3000	0.1 ~ 0.6	~ 3	DP150	DP200
Alüminyum alaşımı(9%~14%Si)	600 ~ 2500	0.1 ~ 0.5	~ 3	DP150	DP200
Alüminyum alaşımı(15%~18%Si)	300 ~ 700	0.1 ~ 0.4	~ 3	DP150	DP200
Bakır, Bronz alaşımı	~ 1000	0.05 ~ 0.2	~ 3	DP150	DP200
Güçlendirilmiş plastik	~ 1000	0.1 ~ 0.3	~ 2	DP150	DP200
Ahşap	~ 4000	0.1 ~ 0.4	-	DP150	DP200
Sement karbür	10 ~ 30	~ 0.2	~ 0.5	DP90	DP150

# Talaş Kırıcılar












## Tornalama için Talaş Kırıcılar

Geometri	Kesme kenarı	Uygulama Aralığı											Özellikler												
		İlerleme hızı, $f_n$ (mm/rev)																							
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0		6.3											
Kesme derinliği, $a_p$ (mm)																									
											0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	13		
VQ						0.10~0.40																		Orta/Finiş	<ul style="list-style-type: none"> <li>Güçlü kesici kenar darbeli kesimde mükemmel kesme performans sağlar</li> </ul>
VL						0.10~0.35																		Finiş	<ul style="list-style-type: none"> <li>Yüksek tokluğa sahip malzemede; düşük karbonlu çelik, boru çeliği ve çelik plakalarda istikrarlı talaş kontrolü</li> <li>Alın ve kopya işleme için geliştirilmiş talaş kontrolü ve daha iyi yüzey finışı</li> </ul>
VF						0.05~0.35																		Finiş	<ul style="list-style-type: none"> <li>Farklı kesme derinliklerinde iyi talaş kontrolü kalitesi</li> <li>Özel talaş kırıcı sayesinde mükemmel kesme kenar kuvveti elde edilmiştir.</li> </ul>
VB						0.15~0.45																		Finiş	<ul style="list-style-type: none"> <li>Daha düşük kesme derinlikleri için iyileştirilmiş talaş kontrolü</li> <li>Kopyalama ve köşe R işlemede mükemmel talaş kontrolü</li> </ul>
VC						0.12~0.45																		Orta/Finiş	<ul style="list-style-type: none"> <li>Farklı kesme derinliklerinde kopyalama ve iç çap işlemede istikrarlı talaş kontrolü</li> </ul>
VM						0.10~0.50																		Orta	<ul style="list-style-type: none"> <li>Orta-finişten orta-kabaya geniş bir talaşa kontrol aralığı</li> <li>CNC işleme için uygun talaş kırıcı</li> </ul>
VH																								Ağır Koşul	<ul style="list-style-type: none"> <li>Ağır işleme için özel olarak tasarlanmıştır</li> <li>Gemi yapımı, enerji santrali gibi ağır sanayiler için özel talaş kesici</li> </ul>
VT																								Ağır Koşul	<ul style="list-style-type: none"> <li>Ağır işleme için özel olarak tasarlanmıştır</li> <li>Gemi yapımı, enerji santrali gibi ağır sanayiler için özel talaş kesici</li> </ul>
VP1						0.05~0.20																		Finiş	<ul style="list-style-type: none"> <li>Yüksek pozitif kesme kenar</li> <li>Azaltılmış talaş teması sıcaklığı en aza indirerek takım ömrünü uzatır.</li> </ul>
VP2						0.05~0.40																		Orta/Finiş	<ul style="list-style-type: none"> <li>Farklı kesme derinliklerinde kopyalamada istikrarlı talaş kontrolü ve yüksek işlenebilirlik</li> </ul>
VP3						0.05~0.45																		Orta	<ul style="list-style-type: none"> <li>Geniş alanlı pozitifliği yüksek kesme kenarı</li> <li>Darbeli kesimde yüksek tokluğa sahip istikrarlı kesme performansı</li> <li>Yüksek kesme derinliğinde istikrarlı işlenebilirlik ve talaş kontrolü</li> </ul>

Not: Uygulama aralıkları ana kesim malzemesine göredir.

# Talaş Kırıcılar


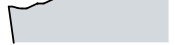
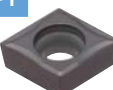








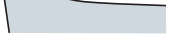


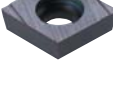







## Tornalama için Talaş Kırıcılar

	Geometri	Kesme kenarı	Uygulama Aralığı											Özellikler	
			ilerleme hızı, fn(mm/rev)												
			0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0		6.3
			kesme derinliği, ap(mm)												
V Serisi	VP4						0.15~0.45			1.0~4.5					Inconel: Orta Paslanmaz çelik: Orta/Kaba
	VR						0.25~0.55			1.2~7.0					Dökme Demir: Orta Çelik: Orta/Kaba
-P Serisi	LP					0.10~0.40			0.5~2.5					Çelik: Orta/Finiş	
	MP					0.15~0.45			0.5~4.5					Orta	
-M Serisi	MM					0.12~0.45			0.5~5.5					Orta	
	RM					0.15~0.55			2.0~6.0					Kaba	
H Serisi	HA				0.03~0.30			0.5~2.5						Hafif Alaşım, Paslanmaz-Çelik	
G Serisi	GR							0.30~0.80			3.0~8.0			Orta/Kaba	
	GH							0.30~1.30			3.0~11.0			Ağır Koşul	
B Serisi	B25							0.50~1.00			4.0~10.0			Genel Kesim	
V-Posi Serisi	VF				0.05~0.25			0.1~1.5						Finiş	

Not: Uygulama aralıkları ana kesim malzemesine göre değişir.

# Talaş Kırıcılar

## Tornalama için Talaş Kırıcılar

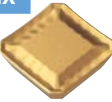
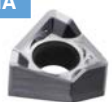

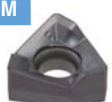








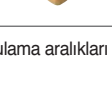
Geometri	Kesme kenarı	Uygulama Aralığı											Özellikler				
		ilerleme hızı, $f_n$ (mm/rev)															
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0		6.3			
		kesme derinliği, $a_p$ (mm)															
		0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	13			
V-Posi Serisi	VL																<b>Finiş</b>
																	<ul style="list-style-type: none"> <li>Düşük karbonlu çelik, borularda ve çelik levhalarda üstün talaş kontrolü</li> </ul>
V-Posi Serisi	VP1																<b>Finiş</b>
																	<ul style="list-style-type: none"> <li>Mikro kesme derinliği ve düşük ilerlemede mükemmel talaş kontrolü Düşük kesme kuvveti ve süper yüzey finışı İç ve dış çap işleme için ideal</li> </ul>
H-Posi Serisi	HMP																<b>Orta</b>
																	<ul style="list-style-type: none"> <li>Geniş kesme koşulu aralığında mükemmel talaş kontrol</li> <li>Paslanmaz çeliğin kesimine uygundur.</li> </ul>
C Serisi	C25																<b>Orta</b>
																	<ul style="list-style-type: none"> <li>Darbeli kesme ve dökme demir işleme için uygundur</li> <li>Düşük kesme kuvveti sayesinde iyi yüzey kalitesi</li> <li>Delik işleme ve dış çap tornalama için uygundur</li> </ul>
P-Posi Serisi	MP																<b>Orta</b>
																	<ul style="list-style-type: none"> <li>Düşük kesme kuvveti için keskin kenar ve geniş talaş cebi</li> <li>Farklı kesme derinliklerinde istikrarlı talaş kontrolü</li> <li>Otomobil parçaları işlemede mükemmel kesme performansı</li> </ul>
AL Serisi	AK																<b>Alüminyum</b>
																	<ul style="list-style-type: none"> <li>Yüksek talaş açısı ve düşük dirençli kesme kenarı, alüminyumun sürekli kesiminde uzun takım ömrü sağlar. Yüksek hızda finiş operasyonu</li> </ul>
AL Serisi	AR																<b>Alüminyum</b>
																	<ul style="list-style-type: none"> <li>Kesme kenarının yüksek stabilitesi yüksek hızda ve darbeli kesimde büyük performans sağlar. Yüksek hızda orta ve darbeli operasyon</li> </ul>
Auto tool Serisi	KF																<b>Finiş</b>
																	<ul style="list-style-type: none"> <li>Keskin kenarlı düşük kesme derinliği Düşük kesme kuvveti sayesinde yüksek hızda daha uzun takım ömü. İyi yüzey finışı</li> </ul>
Auto tool Serisi	KM																<b>Orta/Finiş</b>
																	<ul style="list-style-type: none"> <li>Artırılmış talaş kontrolü takım ömrünü uzatır ve daha iyi işleme sağlar.</li> </ul>
Wiper tool Serisi	LW																<b>Orta(Silici uç)</b>
																	<ul style="list-style-type: none"> <li>Yüksek ilerlemeli kesimde mükemmel yüzey kalitesi ve talaş boşaltma sağlar.</li> </ul>
Wiper tool Serisi	VW																<b>Finiş(Silici uç)</b>
																	<ul style="list-style-type: none"> <li>Güçlü kesme kenarı sayesinde düşük kesme derinliğinde ve yüksek ilerlemede geliştirilmiş yüzey kalitesi</li> </ul>

Not: Uygulama aralıkları ana kesim malzemesine göre değişir.



# Talaş Kırıcılar

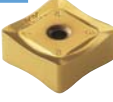

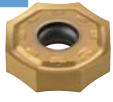

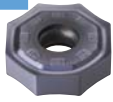



















## Tornalama için Talaş Kırıcılar

Geometri	Kesme kenarı	Uygulama Aralığı											Özellikler				
		ilerleme hızı, $f_n$ (mm/rev)															
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0		6.3			
kesme derinliği, $a_p$ (mm)																	
0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	13					
MX Serisi	MX					0.10~0.30				1.0~5.0							<b>Genel Frezeleme</b> <ul style="list-style-type: none"> <li>Paso ve ilerlemeyi artırarak üretkenliği artırmak mümkündür.</li> <li>Ucun üst yüzünün özel tasarımı sayesinde mükemmel ısı direnci</li> </ul>
RichMill Serisi-RM3	MA					0.05~0.40				1.0~8.0							<b>Alüminyum</b> <ul style="list-style-type: none"> <li>Kesimi zor malzemeler, çelik ve alüminyumun işlenmesi için ideal düşük kesme kuvveti sağlayan keskin kesme kenarı.</li> </ul>
	ML					0.05~0.30				1.0~8.0							<b>Kesimi Zor Malzemeler</b> <ul style="list-style-type: none"> <li>Hafif kesim ve kesimi zor malzemelerde düşük kesme direnci, mükemmel takım ömrü ve yüzey kalitesi</li> </ul>
	MM					0.05~0.35				1.0~8.0							<b>Orta/Kaba</b> <ul style="list-style-type: none"> <li>Genel frezeleme için çoğu uygulamaya uygun genel tasarımı</li> </ul>
	MM					0.05~0.35				1.0~8.0							<b>Orta/Kaba</b> <ul style="list-style-type: none"> <li>Genel frezeleme için çoğu uygulamaya uygun genel tasarımı</li> </ul>
RichMill Serisi-RM4	MA					0.05~0.25				0.3~14.0							<b>Alüminyum</b> <ul style="list-style-type: none"> <li>Keskin kesici kenar tasarımı düşük kesme kuvveti ve kesimi zor malzemelerde, alüminyumda ve hafif kesimde mükemmel işleme sağlar.</li> </ul>
	MF					0.05~0.30				0.5~14.0							<b>Finiş</b> <ul style="list-style-type: none"> <li>Düşük kesme kuvveti veren talaş kırıcı tasarımı daha uzun takım ömrü, kesimi zor malzemede ve hafif kesimde mükemmel işleme sağlar.</li> </ul>
	MM					0.05~0.30				1.0~14.0							<b>Orta/kaba</b> <ul style="list-style-type: none"> <li>Genel frezelemeye uygun geometri tasarımı, daha geniş işleme aralıklarına sahiptir.</li> </ul>
RichMill Serisi-RM8	MA					0.05~0.35				0.3~6.0							<b>Alüminyum</b> <ul style="list-style-type: none"> <li>Keskin kesme kenarı ve kaygan üst yüzü alüminyum işlemede mükemmel talaş akışı ve kaynaklanma direnci gösterir.</li> </ul>
	MF					0.05~0.35				0.3~6.0							<b>Finiş</b> <ul style="list-style-type: none"> <li>Düşük kesme kuvvetine uygun talaş kırıcı tasarımı sayesinde daha uzun takım ömrü, kesimi zor malzemede ve hafif kesimde mükemmel işleme</li> </ul>
	ML					0.05~0.30				0.3~6.0							<b>Kesimi Zor Malzemeler</b> <ul style="list-style-type: none"> <li>Kesimi zor malzemelerin işlenmesinde mükemmel takım ömrü ve yüzey kalitesi için düşük kesme kuvveti</li> </ul>
	MM					0.10~0.40				0.5~6.0							<b>Orta/Kaba</b> <ul style="list-style-type: none"> <li>Genel frezeye uygun geometri tasarımı, daha geniş işleme aralıklarına sahiptir.</li> </ul>
RichMill Serisi-RMT	MF					0.05~0.20				0.5~5.0							<b>Finiş</b> <ul style="list-style-type: none"> <li>Düşük kesme kuvvetine uygun talaş kırıcı tasarımı sayesinde daha uzun takım ömrü, kesimi zor malzemede ve hafif kesimde mükemmel işleme</li> </ul>

Not: Uygulama aralıkları ana kesim malzemesine göre değişir.

# Talaş Kırıcılar








## Frezeleme için Talaş Kırıcılar

Geometri	Kesme kenarı	Uygulama Aralığı											Özellikler		
		ilerleme hızı, $f_n$ (mm/rev)													
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0		6.3	
kesme derinliği, $a_p$ (mm)															
0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	13			
RichMill Serisi-RMT	MM			0.05~0.30	0.3~5.5									<b>Orta/Kaba</b>	• Genel frezelemeye uygun geometri tasarımı, daha geniş işleme aralıklarına sahiptir.
RichMill Serisi-RM16	MA			0.05~0.30	0.3~5.5									<b>Alüminyum</b>	• Keskin kesici kenar tasarımı düşük kesme kuvveti ve kesimi zor malzemelerde, alüminyumda ve hafif kesimde mükemmel işleme sağlar.
	MF			0.05~0.40	0.3~5.5									<b>Finiş</b>	• Düşük kesme kuvveti veren talaş kırıcı tasarımı daha uzun takım ömrü, kesimi zor malzemede ve hafif kesimde mükemmel işleme sağlar.
	ML			0.05~0.35	0.3~5.5									<b>Kesimi Zor Malzemeler</b>	• Kesimi zor malzemelerin işlenmesinde mükemmel takım ömrü ve yüzey kalitesi için düşük kesme kuvveti
	MM			0.10~0.45	0.5~5.5									<b>Orta/Kaba</b>	• Genel freze için uygun geometri tasarımı, daha geniş işleme aralıklarına sahiptir.
	W			0.05~0.30	0.3~2.0									<b>Finiş(Silici uç)</b>	• Silici uç özel kesme kenarı sayesinde yüzey kalitesini artırır.
	MA			0.10~0.40	0.5~16									<b>Alüminyum</b>	• Keskin kesme kenarı ve kaygan üst yüzey alüminyum işlemede mükemmel talaş akışı ve kaynaklanma direnci gösterir.
Alpha Mill Serisi	MF			0.05~0.15	0.5~16									<b>Finiş</b>	• Düşük kesme kuvvetine uygun talaş kırıcı tasarımı ile daha uzun takım ömrü; Kesimi zor malzemede ve hafif kesimde mükemmel işleme
	MM			0.10~0.25	0.5~16									<b>Orta/Kaba</b>	• Genel frezelemeye uygun geometri tasarımı daha geniş işleme aralıklarına sahiptir.
	ML			0.05~0.15	0.5~16									<b>Kesimi Zor Malzemeler</b>	• Düşük kesme kuvvetine sahip talaş kırıcı kesimi zor malzemelerde üstün işlenebilirlik sağlar.
	MF			0.05~0.20	0.5~5.0									<b>Finiş</b>	• Paslanmaz çelik gibi yapışkan ve işlenmesi zor malzemelerin hafif kesimi için özel tasarım, iyi yüzey finışı ve daha uzun takım ömrü sağlar.
Futur Mill	MM			0.05~0.30	1.0~5.0									<b>Orta</b>	• Geniş kesme koşulunu kapsayan talaş kırıcı tasarımı geniş işleme aralığı sağlar. Bilinmiş tipi ve sinterlenmiş tipi mevcuttur.


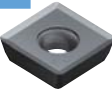

Not: Uygulama aralıkları ana kesim malzemesine göredir.

# Talaş Kırıcılar

## Frezeleme için Talaş Kırıcılar

Geometri	Kesme kenarı	Uygulama Aralığı											Özellikler					
		ilerleme hızı, $f_n$ (mm/rev)																
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0		6.3				
kesme derinliği, $a_p$ (mm)																		
0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	13						
Futur Mill	MR																<b>Kaba</b>	• En güçlü kesme kenar dayancı ağır darbeli ve ağır kaba işlemede bile istikrarlı takım ömrü sağlar.
	MA																<b>Alüminyum</b>	• Keskin kesme kenarı ve kaygan üst yüzey alüminyum işlemede mükemmel talaş akışı ve kaynaklanma direnci gösterir.
Futur Mill Serisi P-Posi	MA																<b>Alüminyum</b>	• Alüminyum işlemede parlatılmış yüzey sayesinde mükemmel yüzey kalitesi.
	ML																<b>Titanyum ve Inconel</b>	• Titanyum ve Inconel işlemede mükemmel yüzey kalitesi için düşük kesme direnci ve yüksek sertlikte kesme kenarı
	MF																<b>Orta</b>	• Hafif kesim için düşük kesme direnci
	MM																<b>Orta/Kaba</b>	• Çoğu freze uygulaması için genel amaçlı form
	None CB																<b>Yüksek Sertlikli Çelik</b>	• Yüksek sertlikli kalıp çeliği ve ısı direnci alaşımlar için ideal

## Delik Delme için Talaş Kırıcılar

Geometri	Kesme kenarı	Uygulama Aralığı											Özellikler					
		ilerleme hızı, $f_n$ (mm/rev)																
		0.04	0.063	0.10	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0		6.3				
kesme derinliği, $a_p$ (mm)																		
0.1	0.16	0.25	0.4	0.63	1.0	1.6	2.5	4.0	6.3	10.0	11.6	13						
KING DRILL	PD																<b>Genel Çelik İşleme İçin</b>	• Çelik, paslanmaz çelik ve dökme demirde genel uygulamalar için güçlü kesme kenarlı talaş kırıcı
	ND																<b>Demir İçermeyen Materyaller</b>	• Alüminyum ve demir dışı metaller için keskin ve parlatılmış kesme kenarlı talaş kırıcı. King Drill ile işlemede iyi talaş akışı ve talaş kaynaklanmasına karşı direnç sağlar.
	LD																<b>Çelik İçin</b>	• Yumuşak çelik, dövme çelik ve paslanmaz çeliklerin işlenmesinde üstün talaş kontrolü

Not: Uygulama aralıkları ana kesim malzemesine göre değişir.

# Uçlar

KORLOY, birçok farklı iş parçası malzemesini(P, M, K, S, N) ve işleme yöntemini(tornalama, frezeleme ve delme) kapsayan özel üretimi kolaylaştırmak için sürekli olarak talaş kırıncıları ve köşe geometrisini genişletmeye çalışır.

Derhal sorun giderme, yüksek üretkenlik ve işleme kalitesi sağlamak için daima müşteri memnuniyetini artırmayı taahhüt ederiz.

tornalama Uçları

Frezeleme Uçları

Delme Uçları

Alüminyum İşleme Uçları

Çok Amaçlı Takımlar uçlar

Rulman Uçları

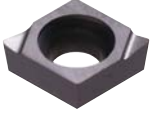
cBN Uçlar

PCD Uçlar

# Tornalama Uçları

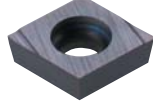
## ► Tornalama

### CCET



0301005R/L  
030101R/L  
030102R/L  
030104R/L  
0401005R/L  
040101R/L  
040102R/L  
040104R/L

### CCET-KF



0602005MFR/L  
060201MFR/L  
060202MFR/L  
09T3005MFR/L  
09T301MFR/L  
09T302MFR/L

### CCET-KM



0602005MFR/L  
060201MFR/L  
060202MFR/L  
09T3005MFR/L  
09T301MFR/L  
09T302MFR/L

### CCGT-AK/AR

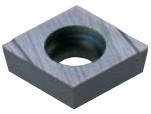


AK

AR

060202 09T308  
060204 120402  
060208 120404  
09T302 120408  
09T304  
060202 09T308  
060204 120402  
060208 120404  
09T302 120408  
09T304 120412

### CCGT-KF



0602003R/L  
060201R/L  
060202R/L  
09T3003R/L  
09T301R/L  
09T302R/L

### CCGT-KM



0602003R/L  
060201R/L  
060202R/L  
09T3003R/L  
09T301R/L  
09T302R/L

### CCGT-VP1



060201  
060202  
060204  
09T301  
09T302  
09T304

### CCGT-VP1 (Precision class)



060201MFN  
060202MFN  
060204MFN  
09T301MFN  
09T302MFN  
09T304MFN

### CCMT-C25



060202  
060204  
060208  
080308  
09T304  
09T308  
120404  
120408  
120412

### CCMT-HMP



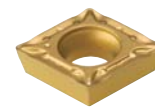
060202  
060204  
060208  
09T302  
09T304  
09T308  
120404  
120408  
120412

### CCMT-MP



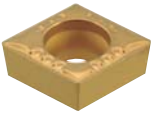
060202  
060204  
060208  
09T302  
09T304  
09T308  
120404  
120408

### CCMT-VF



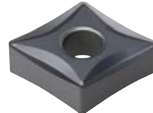
060202  
060204  
09T302  
09T304  
09T308  
120404

### CCMT-VL



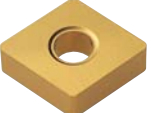
060204  
060208  
09T304  
09T308

### CNGG-VP1



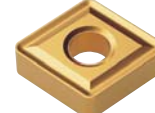
120402  
120404  
120408

### CNMA



090308 160612  
120404 160616  
120408 190608  
120412 190612  
120416 190616  
160608

### CNMG-B25



120404  
120408  
120412  
160608  
160612  
160616  
190604  
190608  
190612  
190616

### CNMG-GR



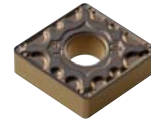
120408 190612  
120412 190616  
120416 190624  
160608 250724  
160612 250924  
160616  
190608

### CNMG-HA



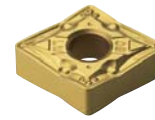
120404  
120408  
120412

### CNMG-LP



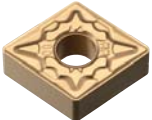
120404  
120408  
120412

### CNMG-LW



120408  
120412

### CNMG-MM



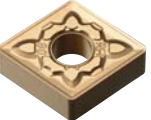
090404 160608  
090408 160612  
090412 160616  
120404 190608  
120408 190612  
120412 190616  
120416

### CNMG-MP



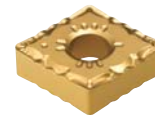
090304 120412  
090308 120416  
090404 160608  
090408 160612  
090412 190612  
120404 190616  
120408

### CNMG-RM



120404 160612  
120408 160616  
120412 190608  
120416 190612  
160608 190616

### CNMG-VB



120404  
120408  
120412

# Tornalama Uçları

## ► Tornalama

### CNMG-VC



120404  
120408  
120412

### CNMG-VF



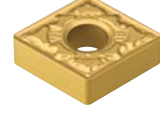
090304  
090308  
120404  
120408  
120412

### CNMG-VL



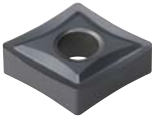
120404  
120408  
120412

### CNMG-VM



090304  
090308  
120404  
120408  
120412  
120416  
160608  
160612  
190608  
190612

### CNMG-VP2



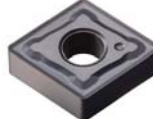
120404  
120408

### CNMG-VP3



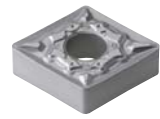
120404  
120408  
120412

### CNMG-VP4



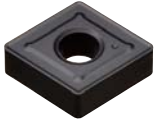
120408  
120412  
190608  
190612

### CNMG-VQ



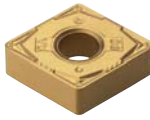
090304  
090308  
120404  
120408  
120412

### CNMG-VR



120408  
120412  
120416  
160612  
160616  
190612  
190616

### CNMG-VW



120404  
120408

### CNMM-GH



120408 190612  
120412 190616  
160412 190624  
160424 250716  
160612 250724  
160616 250924  
160624 250950  
190608

### CNMM-GR



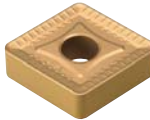
120408  
120412  
190612  
190616

### CNMM-HA



120408

### CNMM-VH



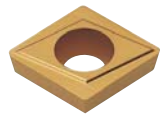
190612  
190616  
190624  
250724  
250924

### CNMM-VT



190612  
190616  
190624  
250724  
250924

### CPGT



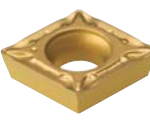
080202  
080204  
080208  
090302  
090304  
090308

### CPGT-HMP



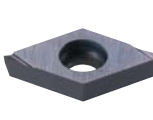
090308

### CPMT-VF



080204  
080208  
090304  
090308

### DCET-KF



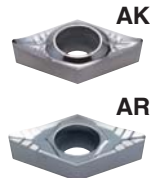
0702005MFR/L  
070201MFR/L  
070202MFR/L  
11T3005MFR/L  
11T301MFR/L  
11T302MFR/L

### DCET-KM



0702005MFR/L  
070201MFR/L  
070202MFR/L  
11T3005MFR/L  
11T301MFR/L  
11T302MFR/L

### DCGT-AK/AR

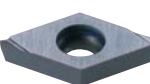


AK

AR

070202  
070204  
070208  
11T302  
11T304  
11T308  
11T312

### DCGT-KF



0702003R/L  
070201R/L  
070202R/L  
11T3003R/L  
11T301R/L  
11T302R/L

### DCGT-KM



0702003R/L  
070201R/L  
070202R/L  
11T3003R/L  
11T301R/L  
11T302R/L

### DCGT-VP1



070201  
070202  
070204  
11T301  
11T302  
11T304

# Tornalama Uçları

## ► Tornalama

### DCGT-VP1 (Precision class)



070201MFN  
070202MFN  
070204MFN  
11T301MFN  
11T302MFN  
11T304MFN

### DCMT-C25



070202  
070204  
070208  
11T302  
11T304  
11T308

### DCMT-HMP



070202  
070204  
070208  
11T302  
11T304  
11T308

### DCMT-MP



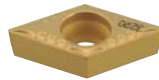
070202  
070204  
070208  
11T302  
11T304  
11T308

### DCMT-VF



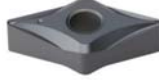
070202  
070204  
11T302  
11T304  
11T308

### DCMT-VL



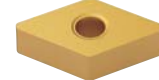
070204  
070208  
11T304  
11T308

### DNGG-VP1



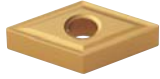
150404  
150408  
150604  
150608

### DNMA



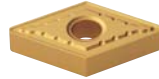
110408  
150404  
150408  
150412  
150604  
150608  
150612  
190608

### DNMG-B25



150402  
150404  
150408  
150412  
150425  
150602  
150604  
150608  
150612  
150625

### DNMG-GR



150408  
150412  
150416  
150608  
150612  
150616

### DNMG-HA



150404  
150408  
150604  
150608

### DNMG-LP



150404  
150408  
150412  
150604  
150608  
150612

### DNMG-LW



150408  
150412  
150608  
150612

### DNMG-MM



110504  
110508  
110512  
150404  
150408  
150412  
150604  
150608  
150612

### DNMG-MP



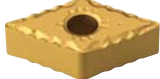
110404 150404  
110408 150408  
110412 150412  
110504 150604  
110508 150608  
110512 150612

### DNMG-RM



150404  
150408  
150412  
150604  
150608  
150612

### DNMG-VB



150404  
150408  
150412  
150604  
150608  
150612

### DNMG-VC



150404  
150408  
150412  
150604  
150608  
150612

### DNMG-VF



110402  
110404  
110408  
150404  
150408  
150412  
150604  
150608  
150612

### DNMG-VL



110408  
150404  
150408  
150412  
150604  
150608  
150612

### DNMG-VM



110404  
110408  
110412  
150404  
150408  
150412  
150604  
150608  
150612

### DNMG-VP2



150404  
150408  
150604  
150608

### DNMG-VP3



150404  
150408  
150412  
150604  
150608  
150612

### DNMG-VP4



150408  
150412  
150608  
150612

# Tornalama Uçları

## ► Tornalama

### DNMG-VQ



110404  
110408  
150404  
150408  
150604  
150608

### DNMG-VR



150408  
150412  
150608  
150612

### DNMG-VW



150404  
150408  
150604  
150608

### DNMX-SH



150404R/L  
150408R/L  
150604R/L  
150608R/L

### KNUX-11



160405R  
160410R  
160405L  
160410L

### KNUX-12



160405R  
160410R  
160405L  
160410L

### RCGT-AK/AR



AK 0602M0  
0803M0  
1003M0  
10T3M0  
1204M0

AR

### RCMX



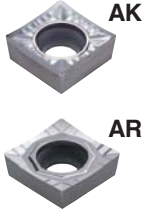
1003M0  
1204M0  
1606M0  
2006M0  
2507M0  
3209M0

### RNMG-B25



090300  
120400  
150600  
190600  
250600  
250900  
310900

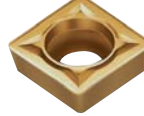
### SCGT-AK/AR



AK 09T302  
09T304  
09T308  
120404  
120408  
120416

AR

### SCMT-C25



060204  
09T304  
09T308  
120404  
120408

### SCMT-HMP



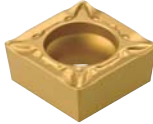
09T304  
09T308  
120404  
120408

### SCMT-MP



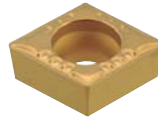
09T304  
09T308  
120408

### SCMT-VF



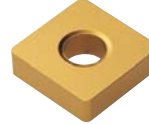
09T304

### SCMT-VL



09T304  
09T308

### SNGA



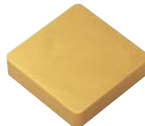
090304  
090308  
120404  
120408  
120412  
150608  
150616  
190608  
190612

### SNGG



090304R/L  
090308R/L  
120404R/L  
120408R/L  
120412R/L

### SNGN



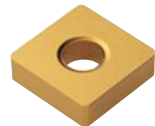
090302 120424  
090304 150402  
090308 150408  
120304 150412  
120308 150416  
120312 190402  
120402 190412  
120404 190416  
120408 250604  
120412 250616

### SNGX



120408R

### SNMA



090304 150616  
090308 190608  
090312 190612  
120402 190616  
120404 190624  
120408 250724  
120412 250924  
120416  
120430  
150612

### SNMG-B25



090308 150616  
120404 190608  
120408 190612  
120412 190616  
120416 250716  
120420 250724  
150608 250924  
150612

### SNMG-GR



120404  
120408  
120412  
150608  
150612  
190608  
190612  
190616  
250724  
250924

### SNMG-HA



120404  
120408  
120412

### SNMG-LP



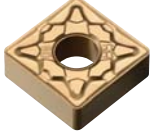
120404  
120408  
120412



# Tornalama Uçları

## ► Tornalama

### SNMG-MM



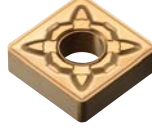
090404 150608  
090408 150612  
090412 150616  
120404 190608  
120408 190612  
120412 190616  
120416

### SNMG-MP



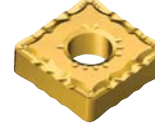
090304  
090308  
090404  
090408  
120404  
120408  
120412  
120416

### SNMG-RM



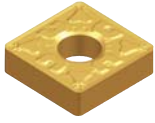
120404  
120408  
120412  
120416  
150612  
150616  
190608  
190612  
190616

### SNMG-VB



120404  
120408

### SNMG-VC



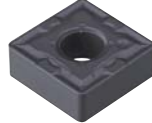
120408

### SNMG-VF



090304  
090308  
120404  
120408  
120412

### SNMG-VK



120404  
120408  
120412

### SNMG-VL



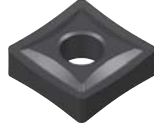
120408

### SNMG-VM



090304  
090308  
120404  
120408  
120412  
190612

### SNMG-VP2



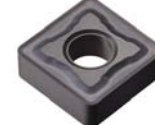
120404  
120408  
120412

### SNMG-VP3



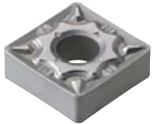
120404  
120408  
120412

### SNMG-VP4



120408  
120412  
150612  
190608  
190612  
190616

### SNMG-VQ



090304  
090308  
120404  
120408

### SNMG-VR



120408  
120412  
190612  
190616

### SNMM-GH



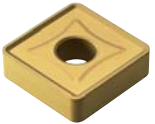
120408  
120412  
150612  
190612  
190616  
190624  
250724  
250924  
250932

### SNMM-GR



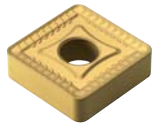
120408  
120412  
190612  
190616

### SNMM-VH



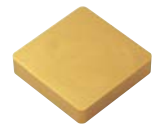
190612  
190616  
190624  
250724  
250920  
250924  
250716

### SNMM-VT



190612  
190616  
190624  
250724  
250920  
250924  
250716

### SNMN



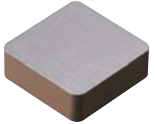
120304  
120308  
120312  
120404  
120408  
120412  
150404  
150408  
150412  
190416

### SNMX



120408R

### SNUN



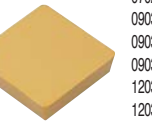
120408  
120412  
190412  
120412TN  
250724TN

### SPGA



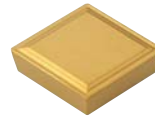
060204  
090308T  
090308T-Z

### SPGN



070202 120402 150416  
070208 120404 150420  
090302 120408 190404  
090304 120412 190408  
090308 120416 190412  
120302 120430 190416  
120304 120440 190424  
120308 150404  
120312 150408  
120316 150412

### SPGR-F

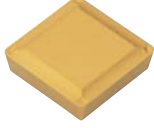


090304  
120304

# Tornalama Uçları

## ► Tornalama

### SPGR-M



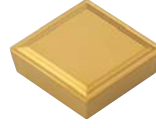
090308  
120308

### SPGT



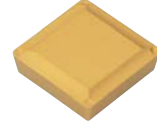
090304R/L  
090308R/L

### SPMR-F



090304  
120304

### SPMR-M



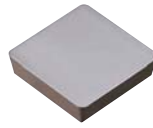
090308  
120308  
120312

### SPMT-VF



090304  
090308

### SPUN



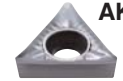
120304  
120308  
150412  
190412  
190416  
250620  
120308SN

### TBGT



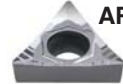
060102L  
060104L

### TCGT-AK/AR



AK

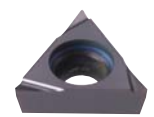
090202 16T304  
090204 16T308



AR

110202 16T312  
110204 16T316  
110208 16T325  
16T302

### TCGT-KF



0802003R-KF  
080201R-KF  
080202R-KF  
0802003L-KF  
080201L-KF  
080202L-KF

### TCMT-C25



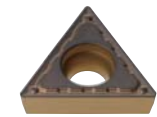
090204  
090208  
110202  
110204  
110208  
16T304  
16T308

### TCMT-HMP



090204  
090208  
110202  
110204  
110208  
16T304  
16T308

### TCMT-MP



090204  
090208  
110202  
110204  
110208  
16T304  
16T308  
16T312

### TCMT-VF



110202  
110204  
110208  
16T302  
16T304

### TCMT-VL



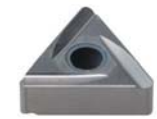
090208  
110204  
110208  
16T304  
16T308

### TNGA



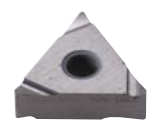
110302 220402  
110304 220404  
160304 220408  
160402 220412  
160404 270612  
160408 270624  
220304

### TNGG



110304R/L  
160402R/L  
160404R/L  
160408R/L  
220404R/L  
220408R/L  
220412R/L

### TNGG-SC



160402R/L  
160404R/L

### TNGN



110302 160412  
110304 220404  
110308 220408  
160302 220412  
160304 220416  
160308 220424  
160404 270630  
160408

### TNMA



110308 220416  
160404 220420  
160408 220432  
160412 270608  
160416 270612  
220404 270616  
220408 330924  
220412

### TNMG-B25



110308 220424  
160404 220432  
160408 270608  
160412 270612  
160416 270616  
220404 330716  
220408 330924  
220412  
220416

### TNMG-GR



160408  
160412  
220408  
220412  
220416  
270608  
270612  
270616  
330924

### TNMG-HA



160404  
160408  
160412  
220408

### TNMG-LP



160404  
160408  
160412

### TNMG-LW



160408  
160412

# Tornalama Uçları

## ► Tornalama

### TNMG-MM



160404  
160408  
160412  
220404  
220408  
220412

### TNMG-MP



160404  
160408  
160412  
220404  
220408  
220412  
220416

### TNMG-RM



160404  
160408  
160412  
220408  
220412

### TNMG-VB



160404  
160408  
220408  
220412

### TNMG-VC



160404  
160408  
160412  
220408  
220412

### TNMG-VF



110304  
160404  
160408  
160412  
220404  
220408

### TNMG-VL



160404  
160408  
160412  
220408  
220412

### TNMG-VM



110308  
160404  
160408  
160412  
220404  
220408  
220412

### TNMG-VP2



160404  
160408  
160412  
220404  
220408

### TNMG-VP3



160404  
160408

### TNMG-VP4



160408  
160412

### TNMG-VR



160408  
160412  
160416  
220408  
220412  
220416

### TNMG-VW



160404  
160408

### TNMM-GH



160408  
220408  
220412  
220416  
270616  
270624  
330924

### TNMM-GR



220408  
220412  
220416

### TNMM



160408  
220408  
220412

### TNMX



160402R  
160404R/L  
160408R/L  
220404R  
220408R

### TNMX-SH



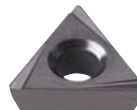
160404R/L  
160408R/L

### TOEH



060102L  
090204L  
140304L

### TPGH



080202L  
080204L  
110202L  
110204L

### TPGN



090204 160316  
110302 160404  
110304 220404  
110308 220408  
160302 220412  
160304 220430  
160308 220440  
160310 270408  
160312 270608

### TPGR-F



110302  
110304  
160304

### TPGR-M



110308  
160308

### TPGT

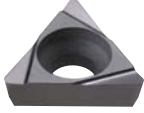


080202R/L  
110302R/L  
110304R/L  
110308R/L  
160404R/L  
160408R/L

# Tornalama Uçları

## ► Tornalama

### TPGX



090202L  
090204L  
090208L  
110304L

### TPMR-F



090202  
090204  
110302  
110304  
110308  
160304  
160308

### TPMR-M



110304  
110308  
160304  
160308  
160312  
220408

### TPMT-MP



110304  
110308  
160404  
160408

### TPMT-VF



110304  
110308  
160404  
160408

### TPMT-VL



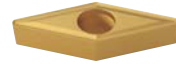
090204  
110304  
110308  
160404  
160408

### TPUN



090308 220404  
110208 220408  
110304 220412  
110308 330620  
160304 160308TN  
160308 160312TN  
160312 220412TN

### VBGT



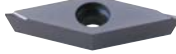
160404  
160408

### VBGT-AK/AR



**AK** 110302  
110304  
110308  
160402  
160404  
160408  
160412  
**AR**

### VBGT-KF



1103003R/L  
110301R/L  
110302R/L

### VBGT-KM



1103003R/L  
110301R/L  
110302R/L

### VBMT



160404  
160408

### VBMT-HMP



110204  
110208  
110304  
110308  
160404  
160408  
160412

### VBMT-MP



110304  
110308  
160404  
160408  
160412

### VBMT-VB



160404  
160408

### VBMT-VF



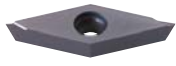
160404  
160408

### VBMT-VL



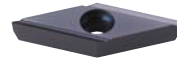
160404  
160408  
160412

### VCET-KF



1103005MFR/L  
110301MFR/L  
110302MFR/L

### VCET-KM



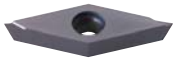
1103005MFR/L  
110301MFR/L  
110302MFR/L

### VCGT-AK/AR



**AK** 110301 160402  
110302 160404  
110304 160408  
110308 160412  
130302 220516  
130304 220525  
130308 220530  
**AR**

### VCGT-KF



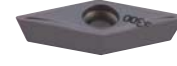
1103003R/L  
110301R/L  
110302R/L

### VCGT-KM



1103003R/L  
110301R/L  
110302R/L

### VCGT-VP1



110301  
110302  
110304

### VCGT-VP1(Precision class)



110301MFN  
110302MFN  
110304MFN

# Tornalama Uçları

## ► Tornalama

### VCGX-VP1 (Precision class)

120300MFR  
120301MFR  
120302MFR



### VCMT-HMP

160404  
160408



### VCMT-MP

080202  
080204  
160404  
160408  
160412



### VCMT-VF

080202  
080204  
110304  
160404



### VCMT-VL

080202  
080204  
160404  
160408  
160412



### VNGG-HA

160408



### VNMG-MM

160404  
160408  
160412



### VNMG-HA

160404  
160408



### VNMG-LP

160404  
160408  
160412



### VNMG-MP

160404  
160408  
160412



### VNMG-RM

160404  
160408  
160412



### VNMG-VB

160404  
160408



### VNMG-VC

160404  
160408



### VNMG-VF

160402  
160404  
160408  
160412



### VNMG-VL

160404  
160408



### VNMG-VM

160404  
160408  
160412  
220404  
220408



### VNMG-VP3

160404  
160408



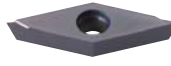
### VNMG-VQ

160404  
160408



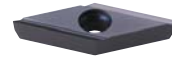
### VPET-KF

080205MFR/L  
080201MFR/L  
080202MFR/L



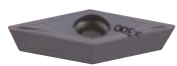
### VPET-KM

080205MFR/L  
080201MFR/L  
080202MFR/L



### VPGT-VP1

110301  
110302  
110304



### VPGT-VP1 (Precision class)

110301MFN  
110302MFN  
110304MFN



### WBG

020102R/L  
S30202L  
S30204R/L



### WNMA

060404  
060408  
060412  
080404  
080408  
080412  
080416



# Tornalama Uçları

## ► Tornalama

### WNMG-B25



080404  
080408  
080412

### WNMG-GR



080404  
080408  
080412  
080416

### WNMG-HA



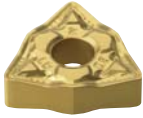
060404  
060408  
080404  
080408  
080412

### WNMG-LP



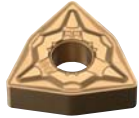
080404  
080408  
080412

### WNMG-LW



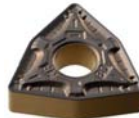
060408  
060412  
080408  
080412

### WNMG-MM



060404  
060408  
060412  
080404  
080408  
080412

### WNMG-MP



060404  
060408  
060412  
080404  
080408  
080412  
080416

### WNMG-RM



060408  
060412  
080404  
080408  
080412

### WNMG-VB



080404  
080408

### WNMG-VC



080404  
080408  
080412

### WNMG-VF



060404  
060408  
080404  
080408  
080412

### WNMG-VL



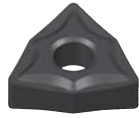
060404  
080404  
080408

### WNMG-VM



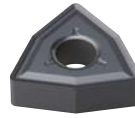
060402  
060404  
060408  
060412  
080404  
080408  
080412

### WNMG-VP2



080404  
080408  
080412

### WNMG-VP3



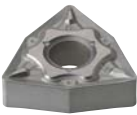
080404  
080408  
080412

### WNMG-VP4



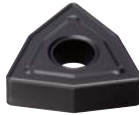
080408  
080412

### WNMG-VQ



060404  
060408  
080404  
080408  
080412

### WNMG-VR



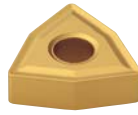
080408  
080412

### WNMG-VW



080404  
080408

### WNMM-B25



100608  
130612

### WNMX-SH

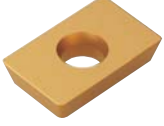


080404R/L  
080408R/L

# Frezeleme Uçları

## ► Frezeleme

### ADKA



150308R  
150308SR  
150308TR

### ADLT



150308R  
150308SR  
150308TR

### APKT



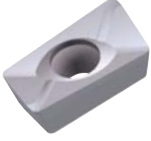
1604PDSR

### APKT-MA



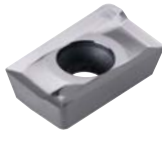
1604PDFR

### APKT-MA2



1604PDFR  
160416FR  
160432FR

### APKT-MA3



1604PDFR  
160420FR

### APKT-MF



1604PDSR

### APKT-MM



1604PDSR

### APKT-MM1



160432R

### APKT-X22



1604PDSR  
1604PDTR

### APLT



070304R

### APMT-MA



0602PDFR 180604PDFR  
060208PDFR 1806PDFR  
0903PDFR 180612PDFR  
090308PDFR 180616PDFR  
11T3PDFR 180620PDFR  
11T308PDFR 180624PDFR  
160404PDFR 180630R  
1604PDFR

### APMT-MF



11T3PDSR  
1604PDSR  
1806PDSR  
180612PDSR

### APMT-ML



0903PDER 1806PDER  
090308PDER 180612PDER  
11T3PDER 180616PDER  
11T308PDER 180620PDER  
160404PDER 180624PDER  
1604PDER 180630R  
180604PDER

### APMT-MM



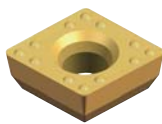
060202PDSR 090320R 160410PDSR 180620PDSR  
0602PDSR 090331R 160416PDSR 180624PDSR  
060208PDSR 090332R 160424R 180630R  
060212R 11T3PDSR 160430R 180632R  
060216R 11T308PDSR 160432R 180640R  
0903PDSR 11T312PDSR 160450R 180648R  
090306PDSR 11T316R 160464R 180650R  
090308PDSR 11T318R 1806PDSR 180660R  
090312R 11T324R 180612PDSR 180664R  
090316R 1604PDSR 180616PDSR

### CNHQ



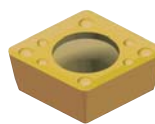
1005-C0.5  
1305-C0.5  
1606-C0.5

### CPMH-MM



120408

### CPMT-MM



060204  
080308  
09T308

### HECN



090408FN  
090408SN  
090408TN  
110412FN  
110412TN

# Frezeleme Uçları

## ► Frezeleme

### HPEN



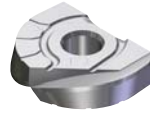
090408FN  
090408SN  
090408EN  
110412FN

### HPEN-WC



090408  
110412

### LBH



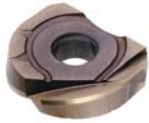
080  
100  
120  
160  
200  
250  
300  
320

### LBH-KF



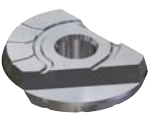
080 200  
100 210  
120 250  
130 300  
160 320  
170

### LBH-KH



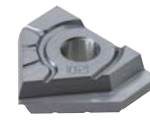
080 210  
100 250  
120 260  
130 300  
160 320  
170  
200

### LBS



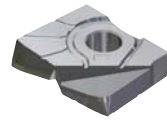
080 200  
090 210  
100 250  
110 260  
120 300  
130 310  
160 320  
170

### LCF



160-D90  
200-D90  
250-D90

### LFH



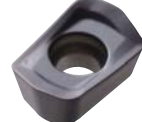
100  
120  
160  
200  
250  
300  
320

### LPEW



040210R  
040220R

### LPMT-MF



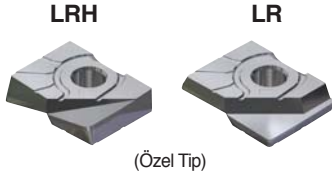
040210R  
040220R

### LPMW



040210R  
040220R

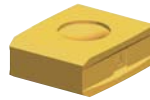
### LRH / LR



(Özel Tip)

100-R05 160-R20 250-R20  
100-R10 160-R30 250-R30  
100-R20 170-R05 260-R05  
110-R05 200-R05 300-R10  
120-R05 200-R10 300-R20  
120-R10 200-R20 300-R30  
120-R20 200-R30 310-R05  
130-R05 210-R05 320-R10  
160-R05 250-R05 320-R20  
160-R10 250-R10 320-R30

### LNCS



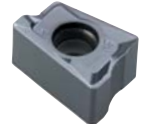
1907-C1.5-WC  
1907-R3.0-WC

### LNE



324-R0.8  
324-C1.0

### LN(E)X-MF



100605PNR  
100608PNR

### LN(E)X-MF



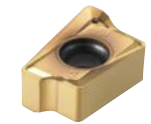
151004PNR  
151008PNR  
151016PNR

### LN(E)X-MM



100605PNR  
100608PNR  
100605PNL

### LN(E)X-MM



151004PNR  
151008PNR  
151016PNR  
151008PNL

### LNEX-MA



100605PNR  
151004PNR  
151008PNR

### LXET-MA



250404PEFR-32 250412PEFR-40 340504PEFR-63  
2504PEFR-32 250416PEFR-40 3405PEFR-63  
250412PEFR-32 340504PEFR-50 340512PEFR-63  
250416PEFR-32 3405PEFR-50 340516PEFR-63  
250404PEFR-40 340512PEFR-50  
2504PEFR-40 340516PEFR-50



# Frezeleme Uçları

## ► Frezeleme

### LXET-ML



250404PEER-32 340504PEER-50  
2504PEER-32 3405PEER-50  
250412PEER-32 340512PEER-50  
250416PEER-32 340516PEER-50  
250404PEER-40 340504PEER-63  
2504PEER-40 340508PEER-63  
250412PEER-40 340512PEER-63  
250416PEER-40 340516PEER-63

### MPMT



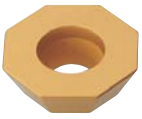
090308  
120408

### OFCN



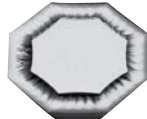
0704SN  
0704FN  
070408SN  
070408FN  
070408TN

### OFCW



05T3SN  
05T3FN  
05T308FN

### OFKR-MA



0704FN  
0704EN

### OFKR-MF



0704SN  
070408SN

### OFKR-MM



0704SN  
070408SN

### OFKT-MA



05T3FN  
05T3EN  
0704FN  
0704EN

### OFKT-MF



05T3SN  
05T308SN

### OFKT-MM



05T3SN  
05T308SN  
0704SN

### ONHX-MF



060608  
080608  
0606ANN  
0806ANN

### ONHX-ML



060608  
080608

### ONHX-MM



060608  
080608  
0606ANN  
0806ANN

### ONHX-MA



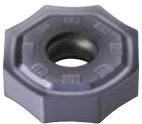
060608  
080608

### ONHX-W



060608  
080608

### ONMX-MF



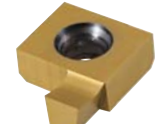
060608  
080608  
0606ANN  
0806ANN

### ONMX-MM



060608  
080608  
0606ANN  
0806ANN

### ORG



265  
325  
405  
470

### PNEJ



1223N 1260N  
1225N 1265N  
1230N 1270N  
1235N 1275N  
1240N 1285N  
1245N  
1250N  
1255N

### PNEJ-C



1223N-C03 1255N-C05  
1230N-C03 1260N-C05  
1235N-C03 1265N-C05  
1240N-C05 1270N-C05  
1245N-C05 1275N-C05  
1250N-C05

### RC



16  
20  
25  
30  
32

### RDCT-MA



10T3M0  
1204M0

### RDHW



0501M0F 0702M0F  
0501M0E 0702M0E  
0501M0S 0702M0S  
06T1M0F 0803M0F  
06T1M0E 0803M0E  
06T1M0S 0803M0S

# Frezeleme Uçları

## ► Frezeleme

### RDHW



1605M0F  
1605M0E  
1605M0S  
2006M0F  
2006M0E  
2006M0S

### RDKT-MF



10T3M0  
1204M0  
1605M0

### RDKT-ML



1605M0

### RDKT-MM



10T3M0  
1204M0  
1605M0  
2006M0

### RDKW



0501M0E  
06T1M0E  
0702M0E  
0803M0E

### REKR-MM



170400

### RPCT-MA



10T3M0  
1204M0  
1606M0  
2007M0

### RPET-ML



0803M0E  
103TM0E  
1204M0E  
1606M0E  
2007M0E

### RPMT-MF



0803M0E  
10T3M0E  
1204M0E  
1606M0E  
2007M0E

### RPMT-MM



0803M0S  
10T3M0S  
1204M0S  
1606M0S  
2007M0S

### RPMW



0803M0E1  
10T3M0E1  
1204M0S1  
1204M0S2  
1606M0S1  
2007M0S1

### SDCN



42R  
42L  
53R  
53L  
42M  
42M-G  
42MT  
42MT-RH

42MT-S20  
53M  
53M-G  
53MT  
53MT-RH  
53MT-S20  
1203AEEN  
1203AEEN-RH

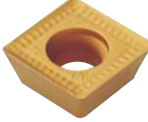
1203AESN  
1203AESN-RH  
1504AEEN  
1504AEEN-RH  
1504AESN  
1504AESN-RH

### SDET-MA



09M402R  
09M404R  
09M405R  
130504R

### SDET-MF



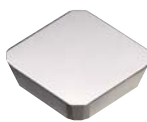
09M405R  
130508R

### SDET-MM



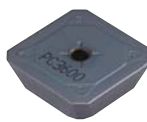
09M405R  
130508R

### SDKN-CM



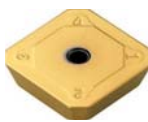
42MT

### SDKN-MU



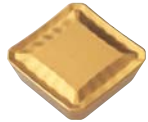
1203AESN  
1504AESN

### SDKN-SU



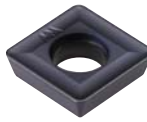
1203AESN  
1504AESN

### SDKR-MX



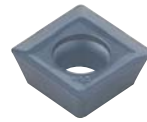
1203AESN  
1203AETN  
1203AEN  
1504AESN  
1504AETN  
1504AEN

### SDMT-MM



090308

### SDXT-MA



09M405R  
130508R

### SDXT-MF



09M403R  
09M403L  
09M404R  
09M404L  
09M405R  
09M405L  
130508R

# Frezeleme Uçları

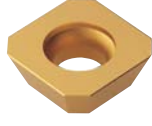
## ► Frezeleme

### SDXT-MM



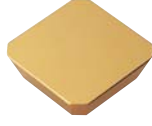
09M405R  
09M405L  
130508R  
130508L  
130538

### SECA



1204AFSN  
1204AFTN  
1204AFFN  
1204AFEN  
1504AFSN  
1504AFTN  
1504AFFN

### SECN



1203AFFN  
1203AFTN  
1203AFEN  
1203AFSN  
1203AFEN-RH  
1203AFSN-RH  
1203AFTN-S20  
1504AFFN  
1504AFTN  
1504AFEN  
1504AFSN  
1504AFEN-RH  
1504AFSN-RH  
1504AFTN-S20

### SEET-MA



0903AGFN  
14M4AGFN

### SEET-MF



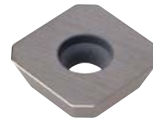
0903AGSN  
14M4AGSN

### SEET-MM



0903AGSN  
14M4AGSN

### SEEW



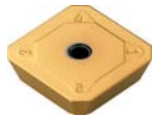
0903AGTN  
14M4AGTN

### SEEW-W



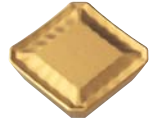
14M4AGFN  
14M4AGSN  
14M4AGTN

### SEKN-SU



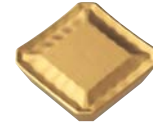
1203AFSN  
1504AFSN

### SEKR-MF1



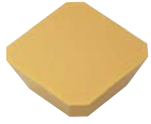
1203AFSN

### SEKR-MX



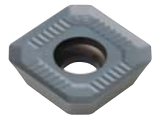
1203AFSN  
1204AFSN  
1504AFSN

### SEMN



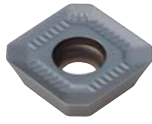
1204AZ

### SEXT-MF



0903AGSN  
14M4AGSN

### SEXT-MM



0903AGSN  
14M4AGSN

### SEXT-MR



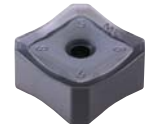
0903AGSN  
14M4AGSN

### SFCN



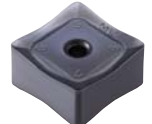
1203EFR

### SNCF-MF



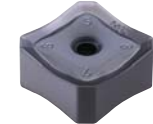
1206ANN  
1206ENN  
1206QNN  
1507ANN  
1507ENN

### SNMF-MF



1206ANN  
1206ENN  
1206QNN  
1507ANN  
1507ENN

### SNCF-MM



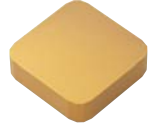
1206ANN  
1206ENN  
1206QNN  
1507ANN  
1507ENN

### SNMF-MM



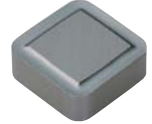
1206ANN  
1206ENN  
1206QNN  
1507ANN  
1507ENN

### SNCN



1204ENN  
1504ENN

### SNEF



435  
535

### SNEU-MF



120420

# Frezeleme Uçları

## ► Frezeleme

### SNEU-MF

1204ANN



### SNEU-TBW

1204



### SNEU-WMF

1204R



### SNEX

101010  
1010ZNN



### SNEX-CU1

101010  
1010ZNN  
121212  
1212ZNN



### SNEX-MA

1206ANN  
1206ENN  
1206QNN  
120612



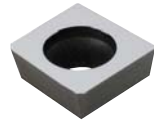
### SNEX-ML

1206ANN  
1206ENN  
1206QNN  
120612  
1507ANN  
1507ENN



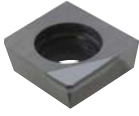
### SNEW

09T3ADFR



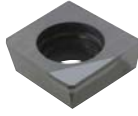
### SNEW-NAF

09T3ADTR-NAF  
09T3ADTR-NAW



### SNEW-XAF

09T3ADTR-XAF  
09T3ADTR-XAW



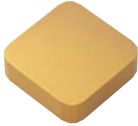
### SNHT-WX

1102308R/L 120508R/L  
110308R/L 1205408R/L  
120308R/L 120608R/L  
1203508R/L 1206508R/L  
120408R/L 120708R/L  
1204508R/L 1207508R/L



### SNKN

1204ENN  
1504ENN



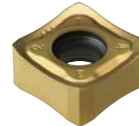
### SNM(E)X-MF

1206ANN  
1507ANN



### SNM(E)X-MF

1206ENN  
1507ENN



### SNM(E)X-MF

1206QNN  
120612



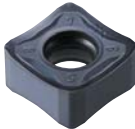
### SNM(E)X-MM

1206ANN  
1507ANN



### SNM(E)X-MM

11206ENN  
1507ENN



### SNM(E)X-MM

11206QNN  
120612



### SNEX-W

1206ANN



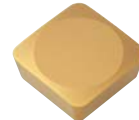
### SPCN

1203EDR 1204EDR 1504EDSR-RH  
1203EDR-RH 150412T 1504EDTR-RH  
1203EDL 1504EDR 1504EDR-S20  
1203EDR-G 1504EDR-RH  
1203EDR-RN 1504EDSR  
1203EDER-RH 1504EDL  
1203EDSR-RH 1504EDR-G  
1203EDTR-RH 1504EDR-RN  
1203EDR-S20 1504EDER-RH



### SPEN-WC

120416  
150412  
150416  
150420  
190424



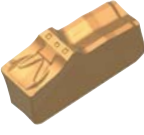
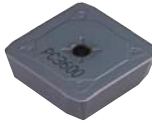
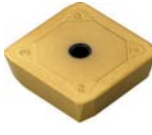

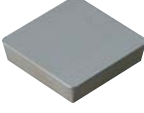





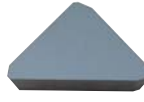










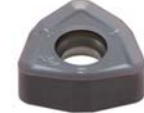

### SPEX

1203EDR-1  
1203EDL-1  
1504EDR-1  
1504EDL-1



# Frezeleme Uçları

## ► Frezeleme

<b>SPFN</b>  200-N 300-N 400-N	<b>SPKN-MU</b>  1203EDSR 1504EDSR	<b>SPKN-SU</b>  1203EDSR 1203EDSL 1504EDSR 1504EDSL	<b>SPKR-MX</b>  1203EDSR 1203EDSL 1504EDR 1504EDSR
<b>SPMN</b>  120308	<b>SPMT</b>  060304	<b>SPMT-KC</b>  110408	<b>SPMT-MM</b>  120408-MM 120508-MMN
<b>TEC(E)N</b>  <b>TECN</b> 22R 22TR 32R 32R-G 32TR 32TR-S20 43R-G 43TR-Z 43TR <b>TEEN</b> 32TR	<b>TEEN</b>  43R-Z 43TR-Z 43TR-ZH 43R 43R-G 43TR 43TR-S20	<b>TFCN</b>  2203PFR 2203PFL	<b>TNMX-NM</b>  2710AZNR 2710AZNL
<b>TPCN</b>  1103PPN 1103PPTN 1603PDR 1603PPN 1603PPR 1603PPR-RH 1603PPR-G 1603PPSR 1603PPTN 1603PPTR 1603PPR-RH 1603PDER-RH 1603PDRS-RH 1603PDR-S20 1603PDR-RN 2204PDR 2204PDR-RH 2204PDR-RN 2204PDR-G 2204PDL 2204PDSR 2204PDTR 2204PPN 2204PPTN 2204PDR-RH 2204PDER-RH 2204PDSR-RH 2204PDR-S20	<b>TPKN-MU</b>  2204PDSR	<b>TPKN-SU</b>  1603PDSL 1603PDSR 2204PDSL 2204PDSR	
<b>TPKR-MX</b>  1603PDSN 1603PDSR 1603PPR 1603PPSN 1603PPSR 2204PDR 2204PDSR 2204PPR	<b>TWX-KC</b>  16R 22R	<b>VCKT-MA</b>  220530N	<b>VDKT-MA</b>  11T210N 11T220N
<b>WDKT-MH</b>  080316ZDSR 10T320ZDSR 130520ZDSR 150625ZDSR	<b>WNMX-MM</b>  060312ZNN 09T316ZNN 130520ZNN 160720ZNN	<b>WNMX-MF</b>  060312ZNN 09T316ZNN 130520ZNN 160720ZNN	<b>XCET-KC</b>  310404ER

# Frezeleme Uçları/Delik Delme Uçları

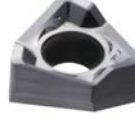
## ► Frezeleme

### XEKT-MA



19M504FR 19M532FR 250620FR  
19M508FR 19M540FR 250630FR  
19M512FR 19M550FR 250632FR  
19M516FR 250604FR 250640FR  
19M518FR 250608FR 250650FR  
19M520FR 250612FR  
19M530FR 250616FR

### XNCT-MA



080504PNFR  
080508PNFR  
080512PNFR  
080520PNFR  
120608PNFR

### XNKT-ML



060405PNER  
080504PNER  
080508PNER  
080512PNER  
080516PNER  
080520PNER  
120608PNER  
120612PNER  
120616PNER  
120620PNER

### XNKT-MM



060405PNSR  
080504PNSR  
080508PNSR  
080512PNSR  
080516PNSR  
080520PNSR  
120608PNSR  
120612PNSR  
120616PNSR  
120620PNSR

### XPMT-MM



0802ER  
1003ER  
13T3ER  
1604ER  
1805ER  
2006ER  
2507ER

### ZDMT-R-MM



080310R  
110312.5R  
130416R

### ZPET-MM



080M 140M  
090M 150M  
100M 160M  
110M 200M  
125M 250M  
130M

(iç)

### ZPET-MM



080S 140S  
090S 150S  
100S 160S  
110S 200S  
125S 250S  
130S

(dış)

### ZPMT-MM



1504PPSR-MM  
1505PPSR-MMN

### ZPMT-R-MM



160520R  
160525R  
160531.5R

### ZPMT-R-MR



160525R

## ► Delik Delme

### SPET-ND



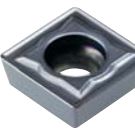
040204  
050204  
060205  
07T208  
090308  
11T308  
130410  
15M510  
180510

### SPMT-DF



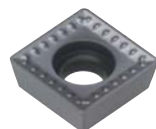
050203  
060204  
070204

### SPMT-DM



050203  
060204  
070204

### SPMT-DS



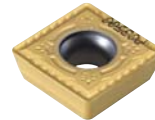
050203  
060204  
070204

### SPMT-LD



060205  
07T208  
090308  
11T308  
130410  
15M510  
180510

### SPMT-PD



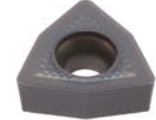
040204  
050204  
060205  
07T208  
090308  
11T308  
130410  
15M510  
180510

### WCKT-C21



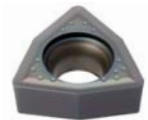
030204  
040204  
050308  
06T308  
080408

### WCMT-C20N



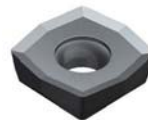
030208  
040208  
050308  
06T308  
080408  
080412

### WCMT-C21N



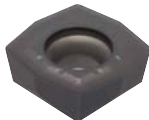
030204  
040204  
040208  
050308  
06T308  
080408

### XOET-ND



040204  
050204  
060204  
07T205  
090305  
11T306  
130406  
15M508  
180508

### XOMT-LD



060204  
07T205  
090305  
11T306  
130406  
15M508  
180508

### XOMT-PD



040204  
050204  
060204  
07T205  
090305  
11T306  
130406  
15M508  
180508

### XOMT-RD



07T207  
090308  
11T309  
130410  
15M511  
180512

# Alüminyum İşleme Uçları

## ► Tornalama

### CCGT-AK/AR



AK  
060202  
060204  
060208  
09T302  
09T304  
09T308  
120402  
120404  
120408

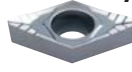


AR  
060202  
060204  
060208  
09T302  
09T304  
09T308  
120402  
120404  
120408  
120412

### DCGT-AK/AR



AK  
070202  
070204  
070208  
11T302  
11T304  
11T308  
11T312



### RCGT-AK/AR



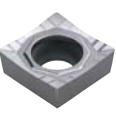
AK  
0602M0  
0803M0  
1003M0  
10T3M  
1204M0



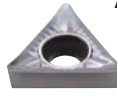
### SCGT-AK/AR



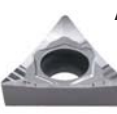
AK  
09T302  
09T304  
09T308  
120404  
120408  
120416



### TCGT-AK/AR



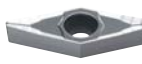
AK  
090202  
090204  
110202  
110204  
110208  
16T302  
16T304  
16T308  
16T312  
16T316  
16T325



### VBGT-AK/AR



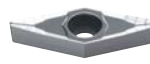
AK  
110302  
110304  
110308  
160402  
160404  
160408  
160412



### VCGT-AK/AR



AK  
110301  
110302  
110304  
110308  
130302  
130304  
130308  
160402  
160404  
160408  
160412  
220516  
220525  
220530



## ► Kanal Açma

### KGGN-A



200-02  
300-02  
400-04  
500-04  
600-04

### KRGN-A



300  
400  
500  
600  
800

### MGGN-A



300-02  
300-04  
300-08  
400-02  
400-04  
400-08

### MRGN-A



400  
500  
600  
800

### MRGN-A



6N  
8N

### MRGN-A5



6N  
8N

### MRGN-AM



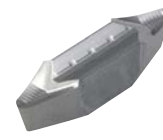
6N  
8N

### MRGN-AP



6N  
8N

### MVGN



8N-A-R1.2  
8N-A-R1.6

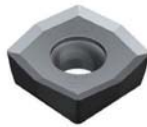
## ► Delik Delme

### SPET-ND



040204  
050204  
060205  
07T208  
090308  
11T308  
130410  
15M510  
180510

### XOET-ND



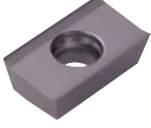
040204  
050204  
060204  
07T205  
090305  
11T306  
130406  
15M508  
180508

# Alüminyum İşleme Uçları

## ► Frezeleme

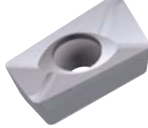
### APKT-MA

1604PDR



### APKT-MA2

1604PDR  
160416FR  
160432FR



### APKT-MA3

1604PDR  
160420FR



### APMT-MA

0602PDR  
060208PDR  
0903PDR  
090308PDR  
11T3PDR  
11T308PDR



160404PDR  
1604PDR  
180604PDR  
1806PDR  
180612PDR  
180616PDR

180620PDR  
180624PDR  
180630R

### CDEW-XCF

1204RL



### LNEX-MA

100605PNR  
151004PNR  
151008PNR



### LXET-MA

250404PEFR-32  
2504PEFR-32  
250412PEFR-32  
250416PEFR-32  
250404PEFR-40  
2504PEFR-40



250412PEFR-40  
250416PEFR-40  
340504PEFR-50  
3405PEFR-50  
340512PEFR-50  
340516PEFR-50

340504PEFR-63  
3405PEFR-63  
340512PEFR-63  
340516PEFR-63

### OFKR-MA

0704FN  
0704EN



### OFKT-MA

05T3FN  
05T3EN  
0704FN  
0704EN



### ONHX-MA

060608  
080608



### RDCT-MA

10T3M0



### RPCT-MA

1204M0  
10T3M0  
1204M0  
1606M0  
2007M0



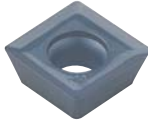
### SDET-MA

09M402R  
09M404R  
09M405R  
130504R



### SDXT-MA

09M405R  
130508R



### SEET-MA

0903AGFN  
14M4AGFN



### SNEX-MA

1206ANN  
1206ENN  
1206QNN  
120612



### VCKT-MA

220530N



### VDKT-MA

11T210N  
11T220N



### XEKT-MA

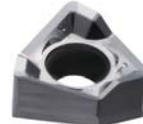
19M504FR  
19M508FR  
19M512FR  
19M516FR  
19M518FR  
19M520FR  
19M530FR



19M532FR  
19M540FR  
19M550FR  
250604FR  
250608FR  
250612FR  
250616FR

### XNCT-MA

080504PNFR  
080508PNFR  
080512PNFR  
080520PNFR  
120608PNFR





# Çok Amaçlı Takımlar Uçları

## ► KGT

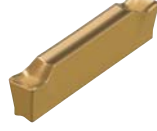
### KGMM-L



kater  
KGEHR/L  
KGEVR/L  
KGFVR/L  
KGFHR/L  
KGIVR/L

· genişlik : 2.0~6.0mm

### KGMM-R



kater  
KGEHR/L  
KGEVR/L  
KGFVR/L  
KGFHR/L  
KGIVR/L

· genişlik : 1.5~8.0mm

### KGMM-T



kater  
KGEHR/L  
KGEVR/L  
KGFVR/L  
KGFHR/L  
KGIVR/L

· genişlik : 1.5~8.0mm

### KRMN-C



kater  
KGEHR/L  
KGEVR/L  
KGEUR/L  
KGFVR/L  
KGFHR/L  
KGIUR/L

· genişlik : 2.0~8.0mm

### KGMI-T



kater  
KGIVR/L

· genişlik : 2.0~4.0mm

### KGMR-LP



kater  
KGEHR/L

· genişlik : 2.0~5.0mm

### KGMR-RP



kater  
KGEHR/L

· genişlik : 2.0~5.0mm

### KGML-LP



kater  
KGEHR/L

· genişlik : 2.0~4.0mm

### KGML-RP



kater  
KGEHR/L

· genişlik : 2.0~4.0mm

### KGGN-B



kater  
KGEHR/L  
KGEVR/L  
KGFVR/L  
KGFHR/L

· genişlik : 2.65~8.0mm

### KGGN-R



kater  
KGEHR/L  
KGEVR/L  
KGFVR/L  
KGFHR/L

· genişlik : 2.0~8.0mm

### KGGN-R (Tekli tip)



kater  
KGTB

· genişlik : 2.0~8.0mm

### KGGN-A



kater  
KGEHR/L  
KGEVR/L  
KGFVR/L  
KGFHR/L

· genişlik : 2.0~6.0mm

### KRGN-A



kater  
KGEHR/L  
KGEVR/L  
KGEUR/L  
KGFVR/L  
KGFHR/L  
KGIUR/L

· genişlik : 3.0~8.0mm

## ► Mikro Delik İşleme Takımları

### NFTF, NFTG, NFTT



kater : NFTIH

※ İç Kanal Açma, Dış Açma ve Kopya İşleme için

# Çok Amaçlı Takımlar Uçları

## ► MGT

### MFMN



kater  
MGFHR/L  
MGFVR/L

· genişlik : 3.0mm

### MGGN-M



kater  
MGEHR/L  
MGEVR/L  
MGIVR/L

· genişlik : 3.0~6.0mm

### MGMN-G



kater  
MGEHR/L  
MGEVR/L  
MGIVR/L  
MGFHR/L  
MGFVR/L

· genişlik : 1.5~6.0mm

### MGMN-M



kater  
MGEHR/L  
MGEVR/L  
MGIVR/L  
MGFHR/L  
MGFVR/L

· genişlik : 2.0~8.0mm

### MGMN-L,R,T



kater  
MGEHR/L  
MGEVR/L  
MGIVR/L  
MGFHR/L  
MGFVR/L

· genişlik : 2.0~5.0mm

### MGGN-A



kater  
MGEHR/L  
MGEVR/L  
MGIVR/L

· genişlik : 3.0~5.0mm

### MGMR/L-PS



kater  
MGEHR/L

· genişlik : 3.0~5.0mm

### MGMR/L-PT



kater  
MGEHR/L

· genişlik : 2.0~5.0mm

### MRGN-A



kater  
MGEHR/L  
MGEUR/L  
MGEVR/L  
MGIUR/L  
MGIVR/L

· genişlik : 4.0~5.0mm

### MRMN-M



kater  
MGEHR/L  
MGEUR/L  
MGEVR/L  
MGIUR/L  
MGIVR/L

· genişlik : 2.0~8.0mm

### MVGN



kater  
MGEXR/L  
MGIUR/  
L-MV

## ► Kesme

### SP



160 400L  
180 500  
200 500R  
200R 500L  
200L 600  
300 600R  
300R 600L  
300L 400  
400 400R

· kater : SPB/SPB-S,  
SPH/SPH-S

### POB



kater  
PH

· genişlik : 3.0~5.0mm

## ► Form Verme

### BF



kater  
GFT, GFIP

· genişlik : 3.1~8.1mm

# Çok Amaçlı Takımlar Uçları

## ► Kanal Açma

**DB**

kater  
DBH



· genişlik : 3.0~8.0mm

**DC**

kater  
DBH



· genişlik : 3.0~5.0mm

**FGD/FGM/FMM**

kater  
FGHH  
FGVH



· genişlik : 3.0~5.0mm

**GO**

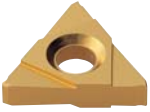
kater  
GH



· genişlik : 2.5~4.1mm

**GS**

kater  
GH



· genişlik : 1.23~4.28mm

**GW**

kater  
GFT  
GFIP



· genişlik : 1.1~8.0mm

**IG**

kater  
IGH



· genişlik : 1.25~2.8mm

**GR**

kater  
GFT  
GFIK



· genişlik : 2.0~8.0mm

**TB**

kater  
TBH



· genişlik : 3000 tip 1.25~4.3mm  
4000 tip 1.25~4.5mm

**TB-M**

kater  
TBH

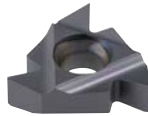


· genişlik : 4000 tip 1.5~4.5mm

## ► Diş Açma

- V Profil 60°
- V Profil 55°
- ISO Metrik(Tam Profil)
- Amerikan UN(Tam Profil) UN, UNC, UNF, UNEF
- Whitworth(Tam Profil) BSW, BSF, BSP
- İngiliz Standart Boru dişi(Tam Profil) BSPT
- MB Boru Dişi(Tam Profil) NPT
- MB Boru Dişi-Sızdırmaz(Tam Profil) NPTF
- Dairesel DIN 405
- Trapez DIN 103
- Amerikan ACME
- Stub ACME
- UNJ
- Amerikan Özel boru birleştirme metodu
- İngiliz Özel boru birleştirme metodu
- Metrik Özel boru birleştirme metodu-Sagengewinde
- API
- API Özel boru birleştirme metodu
- API Dairesel özel boru birleştirme metodu
- EL-Extreme Line özel boru birleştirme metodu

**ER**



· kater : ER(L)H/ER(L)H-C

**ERM**



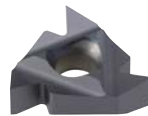
· kater : ER(L)H/ER(L)H-C

**ERM-U**



· kater : ER(L)H/ER(L)H-C

**IR**



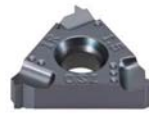
· kater : IR(L)H/IR(L)H-C

**IRM**



· kater : IR(L)H/IR(L)H-C

**IRM-U**

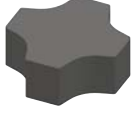


· kater : IR(L)H/IR(L)H-C

# Rulman Uçları

## ► R- Pah Kırma

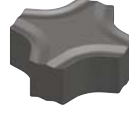
### MC



• kater : CMSN...F  
CMSN...B

0906  
0910  
1206  
1210  
1212  
1215  
1220  
1225  
1525  
1530  
1540

### MC-BR



• kater : CMSN...F  
CMSN...B

1206  
1210  
1212  
1215  
1220  
1230  
1235

## ► İç Tornalama

### RPGT



• kater : SRGP...E  
SRGP...F  
SRGP...B

0802M0  
1203M0  
1604M0  
2004M0

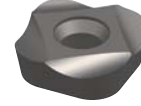
### SPGR



• kater : CSKP...B

120440L

### SPGH



• kater : SSKP...B

090330L

## ► Yuvarlanma Yolu İşleme

### KORIC



• kater : CKFN...RW  
CKGN...RW

2204R/L  
2704R/L  
3306R/L  
3806R/L  
4408R/L

### SNGN-W

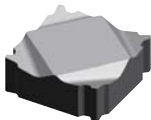


• kater : CSGN...RW

0903WR/L  
1504WR/L  
1905WR/L

## ► Rulman Kapağı İşleme

### SNGN-S



• kater : CSBN...BS  
CSKN...BS

0903SR/L  
1204SR/L  
1504SR/L

### TNGN



• kater : STGN...BS

2204SR/L

### SP



• kater : SPB-S

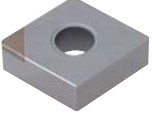
160 400R  
180 400L  
200 500  
200R 500R  
200L 500L  
300 600  
300R 600R  
300L 600L  
400

# cBN Uçlar

## ► Tekrar Bilenebilir Tip(Negatif/Pozitif)

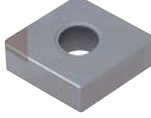
### CNMA

120404  
120408



### T-CNMA

120408



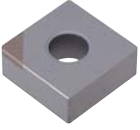
### DNMA

150404  
150408



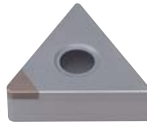
### SNMA

120404  
120408



### TNMA

160404  
160408



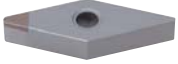
### VNMA

160404  
160408



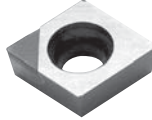
### T-VNMA

160404



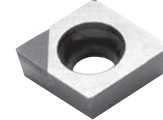
### CCMW

09T304



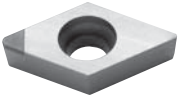
### CPMW

09T304



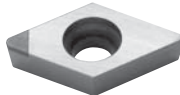
### DCGW

11T308



### T-DCGW

11T308



### TPGB

110304  
110308



### VBMW

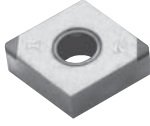
160404  
160408



# cBN Uçlar

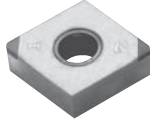
## ► Çok Köşeli Tip(Negatif/Pozitif)

### 2NU-CNGA



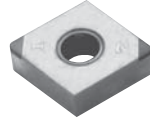
120404 120408WF  
120404F 120408WT  
120404T 120412  
120404W 120412F  
120404WF 120412T  
120408 120412W  
120408F 120412WF  
120408T 120412WT  
120408W

### T-2NU-CNGA



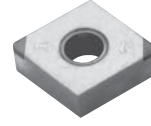
120408

### 2NU-CNMA



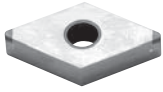
120404  
120408

### 2NS-CNGA



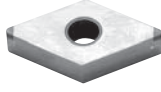
120408

### 2NU-DNGA



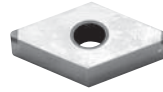
150404  
150404F  
150404T  
150408  
150408F  
150408T  
150412  
150412F  
150412T  
150608

### T-2NU-DNGA



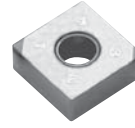
150412

### 2NS-DNGA



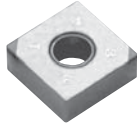
150408

### 4NU-SNGA



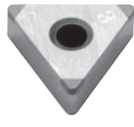
120404  
120404F  
120404T  
120408  
120408F  
120408T  
120412

### 2NS-SNGA



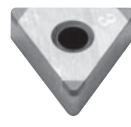
120408

### 3NU-TNGA



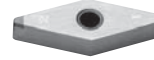
160404  
160404F  
160404T  
160408  
160408F  
160408T  
160412

### 2NS-TNGA



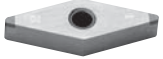
160408

### 2NU-VNGA



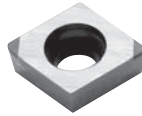
160404  
160404F  
160404T  
160408  
160408F  
160408T

### 2NS-VNGA



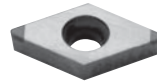
160408

### 2NU-CCGW



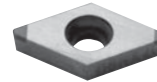
060202 09T304  
060202F 09T304F  
060202T 09T304T  
060204 09T308  
060204F 09T308F  
060204T 09T308T  
060208 09T308W  
060208F 09T308WF  
060208T

### 2NU-DCGW



070204 11T304  
070204F 11T304F  
070204T 11T304T  
070208 11T308  
070208F 11T308F  
070208T 11T308T

### T-2NU-DCGW



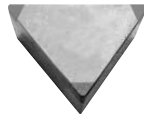
11T304

### 3NU-TCGW



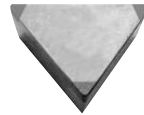
090204  
090204F  
090204T

### 3NU-TPGB



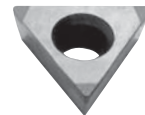
110304  
110304F  
110304T  
110308  
110308F  
110308T

### 3NU-TPGN



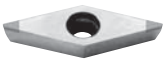
110304  
110304F  
110304T  
110308  
110308F  
110308T  
160304  
160308

### 3NU-TPGW



110304  
110304F  
110304T  
110308  
110308F  
110308T

### 2NU-VBGW



160404  
160404F  
160404T  
160408  
160408F  
160408T

### 2NU-VCGW



160404  
160404F  
160404T  
160408  
160408F  
160408T

# PCD Uçlar

## ► PCD Uçlar(Negatif/Pozitif)

### BAMPR-XAF

BAMPR



### BAMPR-XAW

BAMPR



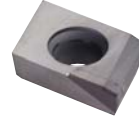
### BAMPR-XAWR

BAMPR



### CDEW-NAF

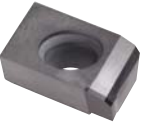
1204R/L



(Güçlendirilmiş Kenar)

### CDEW-NAW

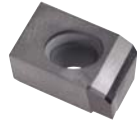
1204R/L



(Güçlendirilmiş Kenarlı Silici Uç)

### CDEW-XAW

1204R/L



(Güçlendirilmiş Kenarlı Silici Uç)

### CDEW-XAF

1204R/L



(Güçlendirilmiş Kenar)

### CDEW-XCF

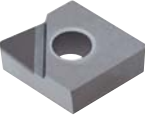
1204R/L



(Güçlendirilmiş Kenar)

### CNMM/CNMX

120404  
120408  
120412



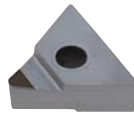
### DNMM/DNMX

150404  
150408  
150412



### TNMX

160404  
160408  
160412



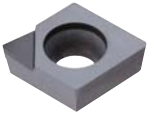
### VNMX

160404  
160408  
160412



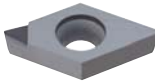
### CCMT/CPMT

CCMT	CPMT
060202	080204
060204	080208
060208	080212
09T304	090304
09T308	090308
09T312	090312



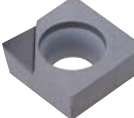
### DCMT

070202  
070204  
070208  
11T302  
11T304  
11T308



### SCMT/SPGW

SCMT	SPGW
09T304	090302
09T308	090304
09T312	090308



### TBGW/TCMT/TPGB/TPGW/TPGT

TBGW	TCMT	TPGB	TPGW	TPGT
060102	090201	080204	080202	110302
060104	090202	080208	080204	110304
	090204	090204	090204	
	110201	090208	090208	
	110202	110304	110302	
	110204	110308	110304	
			110308	
			160404	
			160408	



### VBMT/VCMT

VBMT	VCMT
110302	110302
110304	110304
110308	110308
160402	160404
160404	160408
160408	160412
160412	



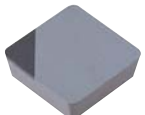
### TPGN

090204  
090208  
110302  
110304  
110308  
160302  
160304  
160308



### SPGN

090304  
090308  
120304  
120308



# Tornalama Takımları

KORLOY tutucu takımları, mükemmel dayanıklılık ve güçlü sıkıştırma kullanarak işleme kalitesini ve takım ömrünü artırmaya katkıda bulunur. KORLOY, her işleme rotası için uygun çeşitli tutucu şekillerine olan müşteri taleplerine cevap verir.

Katerler(ISO Tipi)

Delik İşleme Katerleri(ISO Tipi)

Save turn(Ekonomik Tornalama)

Otomatik Takımlar

Çok Fonksiyonlu Takımlar(Tutucular)



# Katerler(ISO Tipi)

## ► Double Clamp System

### DCBNR/L



2020-K12  
2525-M12  
3225-P12  
2525-M16  
3232-P16  
3232-P19  
4040-S19

### DCKNR/L



2020-K12  
2525-M12  
3225-P12  
3232-P16  
4040-S16

### DCLNR/L



2020-K09 3225-P16  
2525-M09 3232-P16  
2020-K12 2525-M19  
2525-M12 3225-P19  
3225-P12 3232-P19  
3232-P12 4040-S19  
2525-M16

### DDJNR/L



2020-K11  
2525-M11  
3225-P11  
3232-P11  
2020-K15  
2525-M15  
3225-P15  
3232-P15  
2020-K15-3  
2525-M15-3  
3232-P15-3

### DSBNR/L



2020-K09  
2525-M09  
2020-K12  
2525-M12  
3225-P12  
3232-P12  
2525-M15  
3225-P15  
3232-P15  
3232-P19  
4040-S19

### DSDNN



2020-K09  
2020-K12  
2525-M12  
3225-P12  
3232-P12  
2525-M15  
3232-P15  
3232-P19  
4040-S19

### DSKNR/L



2020-K09  
2020-K12  
2525-M12  
3232-P12  
3232-P15  
3232-P19  
4040-S19

### DSSNR/L



2020-K09  
2020-K12  
2525-M12  
3225-P12  
3232-P12  
2525-M15  
3232-P15  
3232-P19  
4040-S19

### DTFNR/L



2020-K16  
2525-M16  
3232-P16  
2525-M22  
3225-P22  
3232-P22

### DTGNR/L



2020-K16  
2525-M16  
3232-P16  
2525-M22  
3225-P22  
3232-P22

### DVJNR/L



2020-K16  
2525-M16  
3232-P16

### DVVNN



2020-K16  
2525-M16  
3232-P16

### DWLNRL



2020-K06  
2525-M06  
2020-K08  
2525-M08

# Katerler(ISO Tipi)

## ► Levyele Bağlama Sistemi

### PCBNR/L



yeni tip		
2020-K12N	3225-P12N	3232-P16N
2525-M12N	2525-M16N	
2020-K12	3232-P16	4040-S25-5
2525-M12	3232-P19	5050-T25
3225-P12	4040-S19	
2525-M16	4040-S25	

### PCKNR/L



yeni tip		
2020-K12N	3225-P12N	4040-S16N
2525-M12N	3232-P16N	
2020-K12	3225-P12	4040-S16
2525-M12	3232-P16	

### PCLNR/L



yeni tip		
1616-H09N	2020-K12N	2525-M16N
2020-K09N	2525-M12N	3232-P16N
2525-M09N	3225-P12N	
1616-H12N	3232-P12N	
1616-H09	3232-P12	4040-S19
2020-K09	2525-M16	4040-S25
2525-M09	3232-P16	5050-T25
1616-H12	2525-M19	4040-S25-5
2020-K12	3225-P19	5050-S25-5
2525-M12	3232-P19	
3225-P12	4040-P19	

### PDJNR/L



yeni tip		
1616-H11N	2525-M15N	2525-M15-3N
2020-K11N	3225-P15N	3232-P15-3N
2525-M11N	3232-P15N	
2020-K15N	2020-K15-3N	
1616-H11	2525-M15	2525-M15-3
2020-K11	3225-P15	3232-P15-3
2525-M11	3232-P15	
2020-K15	2020-K15-3	

### PDNNR/L



yeni tip		
2020-K15N	3232-P15N	2525-M15-3N
2525-M15N	4025-M15	3232-P15-3N
2020-K15	3232-P15	4025-M15-3
2525-M15	2525-M15-3	

### PRDCN



2020-M10	3225-Q12	3232-Q20
2525-M10	2525-Q16	4040-S25
2525-M12	3225-Q16	4040-T25
2020-K12	3232-Q16	5050-U32

### PRGCR/L



2020-K10	2525-M12	3225-P16
2525-M10	3225-P12	3232-P20
2020-K12	2525-M16	4040-S25

### PSBNR/L



yeni tip		
1616-H09N	2525-M12N	2525-M15N
2020-K09N	3225-P12N	3232-P15N
2020-K12N	3232-P12N	
1616-H09	3232-P12	4040-S25
2020-K09	2525-M15	4040-S25-6
2020-K12	3232-P15	5050-T25
2525-M12	3232-P19	
3225-P12	4040-S19	

### PSDNN



yeni tip		
1616-H09N	3225-P12N	3232-P15N
2020-K12N	3232-P12N	
2525-M12N	2525-M15N	
1616-H09	2525-M15	4040-S25
2020-K12	3232-P15	5050-T25
2525-M12	3225-P19	4040-S25-6
3225-P12	3232-P19	5050-T25-6
3232-P12	4040-S19	

### PSKNR/L



yeni tip		
1616-H09N	2525-M12N	3232-P15N
2020-K09N	3232-P12N	
2020-K12N	2525-M15N	
1616-H09	3232-P12	4040-S19
2020-K09	2525-M15	4040-S25
2020-K12	3232-P15	4040-S25-6
2525-M12	3232-P19	5050-T25-6

## Katerler(ISO Tipi)

### ► Levveli Bağlama Sistemi

#### PSSNR/L



yeni tip		
1616-H09N	3225-P12N	3232-P15N
2020-K12N	3232-P12N	
2525-M12N	2525-M15N	
<hr/>		
1616-H09	2525-M15	4040-S19
2020-K12	3232-P15	4040-S25
2525-M12	3232-P19	4040-S25-6
3232-P12	4040-R19	

#### PTFNR/L



yeni tip		
1616-H16N	2525-M22N	4040-S27N
2020-K16N	3232-P22N	
2525-M16N	3232-P27N	
<hr/>		
1616-H16	2525-M22	4040-S27
2020-K16	3232-P22	
2525-M16	3232-P27	

#### PTGNR/L



yeni tip		
1616-H16N	3232-P16N	3232-P27N
2020-K16N	2525-M22N	4040-S27N
2525-M16N	3232-P22N	
<hr/>		
1212-F11	2020-K16	3232-P27
1616-H11	2525-M16	4040-S27
2020-K11	3232-P16	
2525-M11	2525-M22	
1616-H16	3232-P22	

#### PTTNR/L



yeni tip	
1616-H16N	2525-M16N
2020-K16N	2525-M22N
<hr/>	
1616-H16	2525-M16
2020-K16	2525-M22

#### PWLNRL



yeni tip		
1616-H06N	2525-M06N	2525-M08N
2020-K06N	2020-K08N	
<hr/>		
1616-H06	2525-M06	2525-M08
2020-K06	2020-K08	

### ► Baskı Parçalı Sistem

#### WTENN



2020-K16  
2525-M16  
2525-M22  
3232-P22

#### WTJNR/L



2020-K16  
2525-M16  
3232-P16  
2525-M22  
3232-P22

#### WTXNR/L



2020-K16  
2525-M16  
3232-P16

#### WWLNR/L



2020-K08  
2525-M08  
3232-P08

# Katerler(ISO Tipi)

## ► Üstten Baskılı Sistem

### CKJNR



2020-K16  
2525-M16  
3225-M16  
3225-P16  
3232-P16  
4040-R16

### CKJNL



2020-K16  
2525-M16  
3232-P16  
4040-R16

### CKNNR/L



2525-M16  
3232-P16

### CSDPN



1616-H09  
2525-M12

### CSKPR/L



2525-M12

### CTFPR/L



2020-K16  
2525-M16

### CTGPR/L



1212-F11  
1616-H11  
2020-K11  
2020-K16  
2525-M16  
2525-M22  
3232-P22

## ► Çok Kilitli Sistem

### MCKNR/L



2020-K12  
2525-M12  
3232-P12

### MCLNR/L



1616-H09 2525-M16  
2020-K09 3232-P16  
2525-M09 4040-S16  
2020-K12 2525-M19  
2525-M12 3232-P19  
3225-P12 4040-S19  
3232-P12 4040-S25

### MCMNN



2020-K12  
2525-M12  
3232-P12  
2525-M16  
3232-P16  
3232-P19  
4040-S19

### MCRNR/L



2020-K12  
2525-M12  
2525-M16  
3232-P16  
3232-P19  
4040-S19

### MDJNR/L



2020-K11  
2525-M11  
2020-K15-3  
2525-M15-3  
3232-P15-3  
2020-K15  
2525-M15  
3232-P15

### MDNNN



2525-M15-3  
2525-M15

# Katerler(ISO Tipi)

## ► Çok Kilitli Sistem

### MDQNR/L



2525-M15-3  
3232-P15-3  
2525-M15  
3232-M15

### MSBNR/L



2020-K12  
2525-M12  
2525-M15  
3232-P15  
3232-P19  
4040-S19

### MSDNN



1616-H09  
2020-K09  
2020-K12  
2525-M12  
3225-P12  
2525-M15  
3225-P15  
3232-P15  
4040-S15  
3232-P19  
4040-S19

### MSKNR/L



1616-H09  
2020-K09  
2020-K12  
2525-M12  
3225-P12  
2525-M15  
3232-P15  
3232-P19  
4040-S19  
4040-S25

### MSRNR/L



1616-H09  
2020-K09  
2020-K12  
2525-M12  
2525-M15  
3232-P15  
3225-P19  
3232-P19  
4040-S19  
4040-S25

### MSSNR/L



1616-H09  
2020-K09  
2020-K12  
2525-M12  
2525-M15  
3232-P15  
3232-P19  
4040-S19

### MTENN



2020-K16  
2525-M16  
2525-M22  
3225-P27  
4040-S33

### MTFNR/L



1616-H16  
2020-K16  
2525-M16  
2525-M22  
3232-P22  
4040-S22  
3232-P27  
4040-S27  
4040-S33

### MTGNR/L



1616-H16  
2020-K16  
2525-M16  
2525-M22  
3232-P22  
3232-P27  
4040-S27  
4040-S33

### MTJNR/L



2020-K16  
2525-M16  
2525-M22  
3232-P22  
3232-P27  
4040-S27  
4040-S33

### MVJNR/L



2020-K16  
2525-M16  
3232-P16  
2525-M22  
3232-P22  
4040-S22

### MVQNR/L



2020-K16  
2525-M16  
3232-P16

### MVVNN



2020-K16  
2525-M16

### MWLNR



2020-K06  
2525-M06  
3232-P06  
2020-K08  
2525-M08  
3232-P08

# Katerler(ISO Tipi)

## ► Vidalı Sistem

### SCACR/L



1010-E06  
1212-F09

### SCLCR/L



0808-D06  
1010-E06  
1212-F09  
1616-H09  
2020-K09  
2020-K12  
2525-M12

### SDACR/L



1010-E07  
1212-F11  
1616-H11

### SDJCR/L



1010-E07 1212-F11  
1212-F07 1616-H11  
1616-H07 2020-K11  
2020-K07 2525-M11

### SDNCN



1010-E07  
1212-F07  
1212-H11  
1616-H11  
2020-K11

### SRDCN



1010-E06 2525-M08  
1212-F06 1616-H10  
1616-H06 2020-K10  
2525-M06 2525-M10  
1616-H08 2020-K12  
2020-K08 2525-M12

### SRGCR/L



1010-E06 1616-H10  
1212-F06 2020-K10  
1616-H06 2525-M10  
1616-H08 2020-K12  
2020-K08 2525-M12  
2525-M08

### SSBCR/L



1212-F09  
1616-H09  
2020-K12

### SSDCN



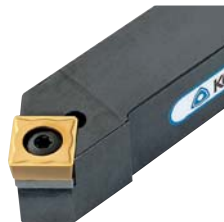
1212-F09  
1616-H09

### SSKCR/L



1616-H09

### SSSCR/L



1616-H09  
2020-K12  
2525-M12

### STACR/L



1010-E09  
1212-F11

### STFCR/L



1010-E09  
1212-F11  
1616-H11  
1616-H16  
2020-K16  
2525-M16

### STGCR/L



0808-D09  
1010-E09  
1212-F11  
1616-H11  
1616-H16  
2020-K16  
2525-M16

### STTCR/L



1616-H11  
1616-H16  
2020-K16

# Katerler(ISO Tipi)

## ► Vidalı Sistem

### SVABR/L



1616-H16  
2020-K16

### SVHBR/L



2525-M16  
3225-P16

### SVJVR/L



1212-F11 2020-K16  
1616-H11 2525-M16  
2020-K11 3225-P16  
1616-H16 3232-P16

### SVJCR/L



1212-F11 2020-K13  
1616-H11 1616-H16  
2020-K11 2020-K16  
1212-F13 2525-M16  
1616-H13

### SVVBN



1212-F11 2020-K16  
1616-H11 2525-M16  
2020-K11 3225-P16  
1616-H16

### SVVCN



1212-F11 2020-K13  
1616-H11 1616-H16  
2020-K11 2020-K16  
1212-F13 2525-M16  
1616-H13

### SWACR/L



1010-E04  
1212-F04  
1616-H06  
2020-K08

# Delik İşleme Katerleri(ISO Tipi)

## ► Çift Baskılı Sistem

### DCLNR/L



A25R-DCLNR/L-09  
A25R-DCLNR/L-12  
A32S-DCLNR/L-12  
A40T-DCLNR/L-12  
A50U-DCLNR/L-16

### DDUNR/L



A40T-DDUNR/L-15  
A50U-DDUNR/L-15  
A40T-DDUNR/L-15-3  
A50U-DDUNR/L-15-3

### DSKNR/L



A25R-DSKNR/L-09  
A25R-DSKNR/L-12  
A32S-DSKNR/L-12  
A40T-DSKNR/L-12

### DTFNR/L



A25R-DTFNR/L-16  
A32S-DTFNR/L-16  
A40T-DTFNR/L-22  
A50U-DTFNR/L-22

### DWLNR/L



A25R-DWLNR/L-06  
A32S-DWLNR/L-06  
A40T-DWLNR/L-06  
A25R-DWLNR/L-08  
A32S-DWLNR/L-08  
A40T-DWLNR/L-08  
A50U-DWLNR/L-08

## ► Levyele Bağlama Sistemi

### PCLNR/L



#### yeni tip

S16R-PCLNR/L-09N	S32U-PCLNR/L-12N	A25R-PCLNR/L-09N
S20S-PCLNR/L-09N	S40T-PCLNR/L-12N	A25R-PCLNR/L-12N
S25R-PCLNR/L-09N	S50U-PCLNR/L-12N	A32S-PCLNR/L-12N
S25R-PCLNR/L-12N	S50U-PCLNR/L-19N	A40T-PCLNR/L-12N
S25T-PCLNR/L-12N	A16R-PCLNR/L-09N	A50U-PCLNR/L-12N
S32S-PCLNR/L-12N	A20S-PCLNR/L-09N	A50U-PCLNR/L-19N

S16R-PCLNR/L-09	S32S-PCLNR/L-12	A25R-PCLNR/L-12
S20S-PCLNR/L-09	S40T-PCLNR/L-12	A32S-PCLNR/L-12
S25R-PCLNR/L-09	S50U-PCLNR/L-12	A40T-PCLNR/L-12
S25R-PCLNR/L-12	S50U-PCLNR/L-19	

### PDSNR/L



#### yeni tip

S32S-PDSNR/L-15N	A32S-PDSNR/L-15N
S40T-PDSNR/L-15N	A40T-PDSNR/L-15N
S32S-PDSNR/L-15-3N	A32S-PDSNR/L-15-3N
S40T-PDSNR/L-15-3N	A40T-PDSNR/L-15-3N

S32S-PDSNR/L-15	S40T-PDSNR/L-15-3
S40T-PDSNR/L-15	A32S-PDSNR/L-15
S32S-PDSNR/L-15-3	A32S-PDSNR/L-15-3

### PDUNR/L



#### yeni tip

S20S-PDUNR/L-11N	S50U-PDUNR/L-15N	A32S-PDUNR/L-15N
S25R-PDUNR/L-11N	S32S-PDUNR/L-15-3N	A40T-PDUNR/L-15N
S32S-PDUNR/L-11N	S40T-PDUNR/L-15-3N	A50U-PDUNR/L-15N
S32S-PDUNR/L-15N	A20S-PDUNR/L-11N	A32S-PDUNR/L-15-3N
S32U-PDUNR/L-15N	A25R-PDUNR/L-11N	A40T-PDUNR/L-15-3N
S40T-PDUNR/L-15N	A32S-PDUNR/L-11N	

S20S-PDUNR/L-11	S40T-PDUNR/L-15	A32S-PDUNR/L-15
S25R-PDUNR/L-11	S50U-PDUNR/L-15	A32S-PDUNR/L-15-3
S32S-PDUNR/L-11	S32S-PDUNR/L-15-3	
S32S-PDUNR/L-15	S40T-PDUNR/L-15-3	

### PSKNR/L



#### yeni tip

S25R-PSKNR/L-12N	A25R-PSKNR/L-12N
S32S-PSKNR/L-12N	A32S-PSKNR/L-12N
S40T-PSKNR/L-12N	A40T-PSKNR/L-12N

S25R-PSKNR/L-12	A25R-PSKNR/L-12
S32S-PSKNR/L-12	A32S-PSKNR/L-12
S40T-PSKNR/L-12	

### PTFNR/L



#### yeni tip

S25R-PTFNR/L-16N	A25R-PTFNR/L-16N
S25T-PTFNR/L-16N	A32S-PTFNR/L-16N
S32S-PTFNR/L-16N	A40T-PTFNR/L-16N
S40T-PTFNR/L-16N	

S16R-PTFNR/L-11	S32S-PTFNR/L-16
S20S-PTFNR/L-11	S40T-PTFNR/L-16
S25R-PTFNR/L-11	A25R-PTFNR/L-16
S25R-PTFNR/L-16	A32S-PTFNR/L-16

### PWLNR/L



#### yeni tip

S20S-PWLNR/L-06N	S25R-PWLNR/L-08N
S25R-PWLNR/L-06N	S32S-PWLNR/L-08N
S32S-PWLNR/L-06N	

S20S-PWLNR/L-06	S25R-PWLNR/L-08
S25R-PWLNR/L-06	S32S-PWLNR/L-08
S32S-PWLNR/L-06	



# Delik İşleme Katerleri(ISO Tipi)

## ► Üstten Baskılı Sistem

### CKUNR/L



S32S-CKUNR/L-16  
S40T-CKUNR/L-16  
S50U-CKUNR/L-16

### CSKPR/L



S16R-CSKPR/L-09  
S20S-CSKPR/L-09  
S20S-CSKPR/L-12  
S25R-CSKPR/L-12

### CTFPR/L



S12M-CTFPR/L-11  
S16R-CTFPR/L-11  
S20S-CTFPR/L-11  
S16R-CTFPR/L-16  
S20S-CTFPR/L-16  
S25R-CTFPR/L-16  
S32S-CTFPR/L-16  
S40T-CTFPR/L-16  
S40T-CTFPR/L-22

## ► Çok Kilitli Sistem

### MCLNR/L



S20S-MCLNR/L-09  
S25R-MCLNR/L-09  
S25R-MCLNR/L-12  
S32S-MCLNR/L-12  
S40T-MCLNR/L-12  
A25R-MCLNR/L-12  
A32S-MCLNR/L-12

### MDUNR/L



S32S-MDUNR/L-15-3  
S40T-MDUNR/L-15-3  
A32S-MDUNR/L-15-3

### MSKNR/L



S25R-MSKNR/L-12  
S32S-MSKNR/L-12  
S40T-MSKNR/L-12  
A25R-MSKNR/L-12  
A32S-MSKNR/L-12  
A40T-MSKNR/L-12

### MTFNR/L



S25R-MTFNR/L-16  
S32S-MTFNR/L-16  
S40T-MTFNR/L-16  
A25R-MTFNR/L-16  
A32S-MTFNR/L-16

### MVUNR/L



S32S-MVUNR/L-16  
S40T-MVUNR/L-16  
A32S-MVUNR/L-16  
A40T-MVUNR/L-16

### MWLNRL



S25R-MWLNRL-06  
S32S-MWLNRL-06  
S40T-MWLNRL-06  
S25R-MWLNRL-08  
S32S-MWLNRL-08  
S40T-MWLNRL-08  
A25R-MWLNRL-06  
A32S-MWLNRL-06  
A25R-MWLNRL-08  
A32S-MWLNRL-08

## ► Vidali Sistem

### SCLCR/L



S08K-SCLCR/L-06  
S10K-SCLCR/L-06  
S10M-SCLCR/L-06  
S12M-SCLCR/L-06  
S16R-SCLCR/L-06  
S12M-SCLCR/L-09  
S16R-SCLCR/L-09  
S20S-SCLCR/L-09  
S25R-SCLCR/L-09  
S25R-SCLCR/L-12  
S32S-SCLCR/L-12  
S40T-SCLCR/L-12  
A08F-SCLCR/L-06  
A10H-SCLCR/L-06  
A12K-SCLCR/L-06  
A12K-SCLCR/L-09  
A16M-SCLCR/L-09  
A20Q-SCLCR/L-09  
A25R-SCLCR/L-09  
A25R-SCLCR/L-12  
A32S-SCLCR/L-12

### SCLPR/L



S10M-SCLPR/L-08  
S12M-SCLPR/L-08  
S16N-SCLPR/L-09  
S16R-SCLPR/L-09  
S20N-SCLPR/L-09  
S20S-SCLPR/L-09  
A10H-SCLPR/L-08  
A12K-SCLPR/L-08  
A16M-SCLPR/L-09  
A20Q-SCLPR/L-09

### SDQCR/L



S10M-SDQCR/L-07  
S12M-SDQCR/L-07  
S16R-SDQCR/L-07  
S16R-SDQCR/L-11  
S20S-SDQCR/L-11  
S25R-SDQCR/L-11  
A10H-SDQCR/L-07  
A12K-SDQCR/L-07  
A16M-SDQCR/L-11  
A20Q-SDQCR/L-11  
A25R-SDQCR/L-11

### SDUCR/L



S10M-SDUCR/L-07  
S12M-SDUCR/L-07  
S16R-SDUCR/L-07  
S16R-SDUCR/L-11  
S20S-SDUCR/L-11  
S25R-SDUCR/L-11  
S32S-SDUCR/L-11  
A10H-SDUCR/L-07  
A12K-SDUCR/L-07  
A16M-SDUCR/L-07  
A20Q-SDUCR/L-11  
A25R-SDUCR/L-11

# Delik İşleme Katerleri(ISO Tipi)

## ► Vidali Sistem

### SDZCR/L



S16R-SDZCR/L-07  
S20S-SDZCR/L-07  
S25R-SDZCR/L-11  
S32S-SDZCR/L-11  
S40T-SDZCR/L-11  
A25R-SDZCR/L-11  
A32S-SDZCR/L-11

### SSKCR/L



S12M-SSKCR/L-09  
S16R-SSKCR/L-09  
S20S-SSKCR/L-09  
S25R-SSKCR/L-12  
S32S-SSKCR/L-12  
A12K-SSKCR/L-09  
A16M-SSKCR/L-09  
A20Q-SSKCR/L-09  
A25R-SSKCR/L-12  
A32S-SSKCR/L-12

### SSKPR/L



S12M-SSKPR/L-09  
S16N-SSKPR/L-09  
S16R-SSKPR/L-09  
S20N-SSKPR/L-09  
S20S-SSKPR/L-09  
A12K-SSKPR/L-09  
A16M-SSKPR/L-09  
A20Q-SSKPR/L-09

### STFCR/L



S10M-STFCR/L-09  
S12M-STFCR/L-09  
S12M-STFCR/L-11  
S16R-STFCR/L-11  
S20S-STFCR/L-11  
S20S-STFCR/L-16  
S25R-STFCR/L-16  
S32S-STFCR/L-16  
S40T-STFCR/L-16  
A10H-STFCR/L-09  
A12K-STFCR/L-09  
A12K-STFCR/L-11  
A16M-STFCR/L-11  
A20Q-STFCR/L-11  
A25R-STFCR/L-16  
A32S-STFCR/L-16

### STFPR/L



S10M-STFPR/L-11  
S12M-STFPR/L-11  
S16N-STFPR/L-11  
S16R-STFPR/L-11  
S20N-STFPR/L-16  
S20S-STFPR/L-16  
A10H-STFPR/L-11  
A12H-STFPR/L-11  
A16M-STFPR/L-11  
A20Q-STFPR/L-16

### STWPR/L



S10M-STWPR/L-11  
S12M-STWPR/L-11  
S16R-STWPR/L-11  
S20R-STWPR/L-11

### SVJCR/L



S12M-SVJCR/L-08  
S16Q-SVJCR/L-08

### SVQBR/L



S32S-SVQBR/L-16  
S40T-SVQBR/L-16  
A32S-SVQBR/L-16

### SVQCR/L



S16R-SVQCR/L-11  
S20S-SVQCR/L-11  
S25R-SVQCR/L-11  
S20S-SVQCR/L-13  
S25R-SVQCR/L-13  
S25R-SVQCR/L-16  
S32S-SVQCR/L-16  
S40T-SVQCR/L-16

### SVUBR/L



S32S-SVUBR/L-16  
S40T-SVUBR/L-16  
A32S-SVUBR/L-16

### SVUCR/L



S16R-SVUCR/L-11  
S20S-SVUCR/L-11  
S25T-SVUCR/L-11  
S20S-SVUCR/L-13  
S25R-SVUCR/L-13  
S25R-SVUCR/L-16  
S32S-SVUCR/L-16  
S40T-SVUCR/L-16

### SWLCR/L



S25R-SWLCR/L-08  
S32S-SWLCR/L-08  
A25R-SWLCR/L-08  
A32S-SWLCR/L-08

## ► Yatak

### SL



SL1603  
SL1604  
SL1605  
SL1606  
SL1607  
SL2008  
SL2010

# Delik İşleme Katerleri(ISO Tipi)

## ► Karbür Şaftlı Delik Kateri

### SCLCR/L



C04G-SCLCR/L-03	C12Q-SCLCR/L-09	E10M-SCLCR/L-06
C05H-SCLCR/L-03	C16R-SCLCR/L-09	E12M-SCLCR/L-06
C06H-SCLCR/L-04	C16S-SCLCR/L-09	E12Q-SCLCR/L-06
C07K-SCLCR/L-04	C20R-SCLCR/L-09	E12M-SCLCR/L-09
C08K-SCLCR/L-06	C20S-SCLCR/L-09	E12Q-SCLCR/L-09
C10K-SCLCR/L-06	C25T-SCLCR/L-12	E16R-SCLCR/L-09
C10M-SCLCR/L-06	E06H-SCLCR/L-04	E16S-SCLCR/L-09
C12M-SCLCR/L-06	E07K-SCLCR/L-04	E20R-SCLCR/L-09
C12Q-SCLCR/L-06	E08K-SCLCR/L-06	E20S-SCLCR/L-09
C12M-SCLCR/L-09	E10K-SCLCR/L-06	E25T-SCLCR/L-12

### SCLPR/L



C10K-SCLPR/L-08	E10K-SCLPR/L-08
C10M-SCLPR/L-08	E10M-SCLPR/L-08
C12M-SCLPR/L-08	E12M-SCLPR/L-08
C12Q-SCLPR/L-08	E12Q-SCLPR/L-08
C12M-SCLPR/L-09	E12M-SCLPR/L-09
C12Q-SCLPR/L-09	E12Q-SCLPR/L-09
C16R-SCLPR/L-09	E16R-SCLPR/L-09
C16S-SCLPR/L-09	E16S-SCLPR/L-09
C20R-SCLPR/L-09	E20R-SCLPR/L-09
C20S-SCLPR/L-09	E20S-SCLPR/L-09

### SDQCR/L



C08K-SDQCR/L-07	E08K-SDQCR/L-07
C10K-SDQCR/L-07	E10K-SDQCR/L-07
C12M-SDQCR/L-07	E12M-SDQCR/L-07
C16R-SDQCR/L-07	E16R-SDQCR/L-07
C16R-SDQCR/L-11	E16R-SDQCR/L-11
C20R-SDQCR/L-11	E20R-SDQCR/L-11
C20S-SDQCR/L-11	E20S-SDQCR/L-11

### SDUCR/L



C10K-SDUCR/L-07	E10K-SDUCR/L-07
C10M-SDUCR/L-07	E10M-SDUCR/L-07
C12M-SDUCR/L-07	E12M-SDUCR/L-07
C12Q-SDUCR/L-07	E12Q-SDUCR/L-07
C16R-SDUCR/L-07	E16R-SDUCR/L-07
C16S-SDUCR/L-07	E16S-SDUCR/L-07
C16R-SDUCR/L-11	E16R-SDUCR/L-11
C16S-SDUCR/L-11	E16S-SDUCR/L-11
C20R-SDUCR/L-11	E20R-SDUCR/L-11
C20S-SDUCR/L-11	E20S-SDUCR/L-11
C25T-SDUCR/L-11	E25T-SDUCR/L-11

### STFCR/L



C08K-STFCR/L-09	E08K-STFCR/L-09
C10K-STFCR/L-09	E10K-STFCR/L-09
C10K-STFCR/L-11	E10K-STFCR/L-11
C12M-STFCR/L-11	E12M-STFCR/L-11
C16R-STFCR/L-11	E16R-STFCR/L-11
C20R-STFCR/L-11	E20R-STFCR/L-11
C20S-STFCR/L-11	E20S-STFCR/L-11
C20R-STFCR/L-16	E20R-STFCR/L-16
C20S-STFCR/L-16	E20S-STFCR/L-16

### STFPR/L



C08K-STFPR/L-08	E08K-STFPR/L-08
C10K-STFPR/L-11	E10K-STFPR/L-11
C10M-STFPR/L-11	E10M-STFPR/L-11
C12M-STFPR/L-11	E12M-STFPR/L-11
C12Q-STFPR/L-11	E12Q-STFPR/L-11
C16R-STFPR/L-11	E16R-STFPR/L-11
C16S-STFPR/L-11	E16S-STFPR/L-11
C20R-STFPR/L-11	E20R-STFPR/L-11
C20S-STFPR/L-11	E20S-STFPR/L-11
C20R-STFPR/L-16	E20R-STFPR/L-16
C20S-STFPR/L-16	E20S-STFPR/L-16
C25T-STFPR/L-16	E25T-STFPR/L-16

### STUBR/L



C08K-STUBR/L-06	E08K-STUBR/L-06
C10K-STUBR/L-06	E10K-STUBR/L-06

### STUPR/L



C08K-STUPR/L-08	E08K-STUPR/L-08
C10K-STUPR/L-11	E10K-STUPR/L-11
C10M-STUPR/L-11	E10M-STUPR/L-11
C12M-STUPR/L-11	E12M-STUPR/L-11
C12Q-STUPR/L-11	E12Q-STUPR/L-11
C16R-STUPR/L-11	E16R-STUPR/L-11
C16S-STUPR/L-11	E16S-STUPR/L-11
C20R-STUPR/L-11	E20R-STUPR/L-11
C20S-STUPR/L-11	E20S-STUPR/L-11
C20R-STUPR/L-16	E20R-STUPR/L-16
C20S-STUPR/L-16	E20S-STUPR/L-16
C25T-STUPR/L-16	E25T-STUPR/L-16

### SWUBR/L



C05H-SWUBR/L-02	E06H-SWUBR/L-02
C06H-SWUBR/L-02	E08K-SWUBR/L-02
C08K-SWUBR/L-02	E08K-SWUBR/L-S3
C08K-SWUBR/L-S3	

# Save Turn(Ekonomik Tornalama)

## ► Dış Çap Tornalama

### PCLNR/L



1616-H09-4N  
2020-K09-4N  
2525-M09-4N

### PCBNR/L



2020-K09-4N  
2525-M09-4N

### PDJNR/L



2020-K11-5N  
2525-M11-5N

### PDNNR/L



2020-K11-5N  
2525-M11-5N

### PDQNR/L



2020-K11-5N  
2525-M11-5N

### PSBNR/L



2020-K09-4N  
2525-M09-4N

### PSDNN



2020-K09-4N  
2525-M09-4N

### PSKNR/L



2020-K09-4N  
2525-M09-4N

### PSSNR/L



2020-K09-4N  
2525-M09-4N

### PWLNRL/L



1616-H06  
2020-K06  
2525-M06

## ► İç Çap Tornalama

### PCLNR/L



S20Q-PCLNR/L-09-4N  
S25R-PCLNR/L-09-4N  
S32S-PCLNR/L-09-4N

### PDUNR/L



S32S-PDUNR/L-11-5N  
S40T-PDUNR/L-11-5N

### PDZNR/L



S32S-PDZNR/L-11-5N  
S40T-PDZNR/L-11-5N

### PSKNR/L



S25R-PSKNR/L-09-4N  
S32S-PSKNR/L-09-4N

### PWLNRL/L



S20S-PWLNRL/L-06  
S25S-PWLNRL/L-06  
S32S-PWLNRL/L-06

# Otomatik Takımlar

## ► Kesme ve Kanal Açma

### SXGNR/L



- Uç : SG, SC
- 1010-X06A
- 1212-X06A
- 1616-X06A
- 2020-X06A
- 1212-X08A
- 1616-X08A
- 2020-X08A

### KGEHR/L-D00A



- Uç : KGMN
- 1010-2-D20A
- 1212-2-D25A
- 1414-2-D25A
- 1616-2-D32A
- 1212-3-D25A
- 1616-3-D32A

### SBHR/L



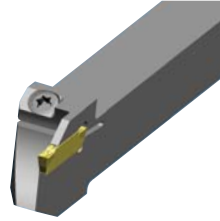
- Uç : SBG, SBC
- 1010-K25
- 1212-K25
- 1616-K25

### SBHR/L-X



- Uç : SBG, SBC
- 1010-K25-X
- 1212-K25-X

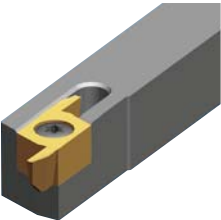
### MGEHR/L-X00A



- Uç : MGMN
- 1010-X15A
- 1212-X15A
- 1010-X20A
- 1212-X20A
- 1616-X20A
- 1010-X25A
- 1212-X25A
- 1616-X25A

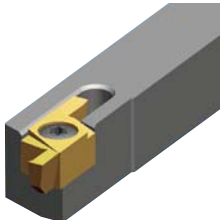
## ► Geri Tornalama

### SXGNR/L



- Uç : SB
- 1010-X06A
- 1212-X06A
- 1616-X06A
- 2020-X06A
- 1212-X08A
- 1616-X08A
- 2020-X08A

### SXGNR/L



- Uç : SGB
- 1010-X06A
- 1212-X06A
- 1616-X06A
- 2020-X06A
- 1212-X08A
- 1616-X08A
- 2020-X08A

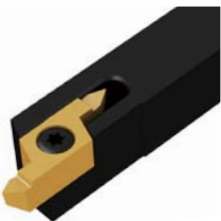
### SBHR/L



- Uç : SBB
- 1010-K25
- 1212-K25
- 1616-K25

## ► Diş Açma

### SXGNR/L



- Uç : ST
- 1010-X06A
- 1212-X06A
- 1616-X06A
- 2020-X06A
- 1212-X08A
- 1616-X08A
- 2020-X08A

### SBHR/L



- Uç : SBT
- 1010-K25
- 1212-K25
- 1616-K25

# Otomatik Takımlar

## ► Dış Çap Tornalama

### SDJCR/L



0808-X07A  
1010-X07A  
1010-X11A  
1212-X11A  
1616-X11A

### SDNCN



0808-X07A  
1010-X07A  
1010-X11A  
1212-X11A  
1616-X11A

### SVJBR/L



1010-X11A  
1212-X11A  
1616-X11A

### SVJCR/L



1010-X11A  
1212-X11A  
1616-X11A

### SCACR/L



0808-X06A  
1010-X06A  
1010-X09A  
1212-X09A  
1616-X09A

### SCLCR/L



0808-X06A  
1010-X06A  
1010-X09A  
1212-X09A  
1616-X09A

### STACR/L



0808-X08A  
1010-X08A

## ► İç Çap Tornalama(Delik İşleme)

### SCLCR/L



S10H-SCLCR/L-0305  
S10H-SCLCR/L-0306  
S10J-SCLCR/L-0407  
S10J-SCLCR/L-0408

### STUBR/L



S08K-STUBR/L-06  
A08F-STUBR/L-06

### STUPR/L



S08K-STUPR/L-08  
A08F-STUPR/L-08

### SWUBR/L



S05H-SWUBR/L-02  
S08K-SWUBR/L-02  
S08K-SWUBR/L-S3  
A08F-SWUBR/L-02  
A08F-SWUBR/L-S3

# Çok Fonksiyonlu Takımlar(Katerler)

## ► KGT

### KGEHR/L



1616-□-T□□  
2020-□-T□□  
2525-□-T□□  
3232-□-T□□

• Uç  
KGGN KRMN  
KGMN KRGN  
KGMR/L

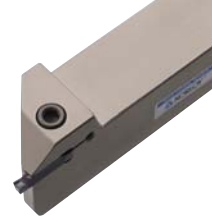
### KGEHR/L-D00A



1010-□-□□□A  
1212-□-□□□A  
1414-□-□□□A  
1616-□-□□□A

• Uç  
KGGN KRMN  
KGMN KRGN  
KGMR/L

### KGEHR/L-T00



1616-□-00  
2020-□-00  
2525-□-00

• Uç  
KGMN KGGN  
KRMN KRGN

### KGEVR/L-T00



2020-□-T00  
2525-□-T00  
3232-□-T00

• Uç  
KGMN KGGN  
KRMN KRGN

### KGEUR/L



1616-□  
2020-□  
2525-□  
3232-□

• Uç  
KRMN KRGN

### KGFR/L



425-□/□-T□□

• Uç  
KGMN KGGN  
KRMN KRGN

### KGFR/L



325-□/□-T□□  
425-□/□-T□□  
525-□/□-T□□  
625-□/□-T□□

• Uç  
KGMN KGGN  
KRMN KRGN

### KGIUR/L



3520-□  
4025-□  
5032-□

• Uç  
KRMN KRGN

### KGVR/L



2016-□ 3225-□  
2516-□ 4032-□  
2520-□ 4540-□

• Uç  
KGMN

### KGTB(Blades)



1532 5032  
2032 6032  
3032 8032S  
4032

• Uç  
KG□□

## ► MGT

### MGEHR/L



1212-□ 2525-□  
1616-□ 2525-□-T□  
2020-□ 3232-□  
2020-□-T□ 3232-□-T□

• Uç  
MGMN MRMN  
MGMR MRGN  
MGGN

### MGEUR/L



2020-□  
2525-□  
3232-□

• Uç  
MRMN MRGN

### MGEVR/L



2020-□  
2525-□  
3232-□

• Uç  
MGMN MRMN  
MGGN MRGN

### MGIUR/L



3520-□  
4025-□  
5032-□

• Uç  
MRMN  
MRGN

### MGVR/L



2016-□ 3125-□  
2520-□ 3732-□  
2925-□ 4540-□

• Uç  
MGMN MGGN  
MRMN MRGN

# Çok Fonksiyonlu Takımlar(Katerler)

## ► MGT Kartuş

### MCER/L(Kartuş)



3-T16  
4-T16  
5-T20  
6-T20

• Uç  
MGMN MGGN  
MGMR MRMN

### MCFR/L(Kartuş)



3-24/35-T16  
3-29/40-T16  
3-34/50-T16  
3-44/70-T16  
3-64/99-T16  
4-44/60-T16  
4-60/120-T16  
4-112/200-T16

• Uç  
MFNM MGMN

### MCHR/L(Kater)



2020  
2525  
3232

### MCVR/L(Kater)



2020  
2525  
3232

## ► Saw-Man

### SMBB(Blok)



1626 2032 2532  
2026 2526 3232

• Uç : SP

### SPB(Lama)



226 232  
326 332  
426 432  
526 532  
626 632

• Uç : SP

### SPB-S(Lama)



226-S 232-S  
326-S 332-S  
426-S 432-S  
526-S 532-S  
626-S 632-S

• Uç : SP

### SPH(Kater)



316R/L 325R/L  
320R/L 425R/L  
420R/L 525R/L  
520R/L

• Uç : SP

### SPH-S(Kater)



316R/L-S 325R/L-S  
320R/L-S 425R/L-S  
420R/L-S 525R/L-S  
520R/L-S

• Uç : SP

## ► İç Çap İşleme

### GFIK



316R/L 525R/L  
325R/L 540R/L  
340R/L 840R/L

• Uç : GR

### GFIP



316R/L 525R/L  
320R/L 540R/L  
325R/L 840R/L  
340R/L

• Uç : BF, GW

### IGH



214R/L 220R/L  
216R/L

• Uç : IG

### NFTIH



08206C 08512C 11412C 14116C 16312C 16416C  
08212C 11208C 11512C 14212C 16312S 16516C  
08312C 11212C 14012C 14216C 16412C  
08312S 11312C 14016C 14312C 16512C  
08412C 11312S 14112C 14316C 16316C

• Uç : NFTF, NFFT, NFTG



# Çok Fonksiyonlu Takımlar(Katerler)

## ► Dış Çap İşleme

### DBH



320R/L 525R/L  
325R/L 720R/L  
520R/L 725R/L

• Uç : DB, DC

### EH



620R  
625R

• Uç : ESB

### GFT



320R/L 525R/L  
325R/L 825R/L

• Uç : GW, BF

### GH



2020R/L-3  
2025R/L-3  
2020R/L-4  
2525R/L-4

• Uç : GO, GS

### TBH



320-23R/L 420-23R/L 510R/L  
320-33R/L 420-33R/L 512R/L  
320-43R/L 420-45R/L 516R/L  
325-23R/L 425-23R/L 520R/L  
325-33R/L 425-33R/L 525R/L  
325-43R/L 425-45R/L

• Uç : TB

### PH



320R/L 425R/L  
325R/L 520R/L  
420R/L 525R/L

• Uç : POB

## ► Alın Kanal Açma

### FGHH(FGVH)



320R 425R  
325R 520R  
420R 525R

• Uç : FGD, FGM, FMM

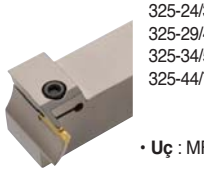
### MGFHR/L



325-24/35-T10 325-64/99-T10  
325-29/40-T10 425-62/120-T15  
325-34/50-T10 425-112/200-T15  
325-44/70-T10

• Uç : MFMN, MGMM

### MGFVR/L



325-24/35-T10 325-64/99-T10  
325-29/40-T10 425-44/60-T10  
325-34/50-T10 425-60/120-T10  
325-44/70-T10 425-112/200-T10

• Uç : MFMN, MGMM

## ► Diş Açma

### ER(L)H



• Vidalı Sistem  
ER(L)H□□-□□

• Uç : ER, ERM

### ER(L)H-C



• Üstten Baskılı Sistem  
ER(L)H□□-□□C

• Uç : ER, ERM, ERM-U

### IR(L)H



• Üstten Baskılı Sistem  
IR(L)H□□-□□

• Uç : IR, IRM, IRM-U

### IR(L)H-C



• Üstten Baskılı Sistem  
IR(L)H□□-□□C

• Uç : IR, IRM, IRM-U

### VTH



2020R  
2525R  
3225R

• Uç : VETR

# Frezeleme Takımları

KORLOY gelişmiş teknolojisi ve takım sistemlerindeki bilgi birikimi ile, yüksek verimlilik ve kalite için değer yaratacak yüksek kaliteli freze takımları sunar.

Yüzey Frezeleme Takımları  
Çok Fonksiyonlu Takımlar  
Alüminyum Frezeleme Takımları  
Yüksek İlerlemeli Freze Takımları  
Kanal Frezeler

# Yüzey Frezeleme Takımları

## ► Rich Mill Serisi

### RM3PC(M) 3000/4000/5000



#### ■ 3000 tip

: Ø40 - Ø80mm

#### • Uç

XNKT060405PNER-ML  
XNKT060405PNSR-MM

#### ■ 4000 tip

: Ø40 - Ø125mm

#### • Uç

XNCT080504PNFR-MA XNKT080512PNER-ML  
XNCT080508PNFR-MA XNKT080512PNSR-MM  
XNCT080512PNER-MA XNKT080516PNER-ML  
XNCT080520PNFR-MA XNKT080516PNSR-MM  
XNKT080508PNER-ML XNKT080520PNER-ML  
XNKT080508PNSR-MM XNKT080520PNSR-MM

#### ■ 5000 tip

: Ø80 - Ø125mm

#### • Uç

XNCT120608PNFR-MA XNKT120616PNSR-MM  
XNKT120608PNSR-MM XNKT120616PNER-ML  
XNKT120608PNER-ML XNKT120620PNSR-MM  
XNKT120612PNSR-MM XNKT120620PNER-ML  
XNKT120612PNER-ML

### RM3PS 3000/4000



#### ■ 3000 tip

: Ø20 - Ø40mm

#### • Uç

XNKT060405PNER-ML  
XNKT060405PNSR-MM

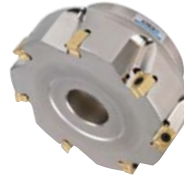
#### ■ 4000 tip

: Ø32 - Ø63mm

#### • Uç

XNCT080504PNFR-MA XNKT080512PNER-ML  
XNCT080508PNFR-MA XNKT080512PNSR-MM  
XNCT080512PNER-MA XNKT080516PNER-ML  
XNCT080520PNFR-MA XNKT080516PNSR-MM  
XNKT080508PNER-ML XNKT080520PNER-ML  
XNKT080508PNSR-MM XNKT080520PNSR-MM  
XNKT080512PNER-ML  
XNKT080512PNSR-MM  
XNKT080516PNER-ML  
XNKT080516PNSR-MM  
XNKT080520PNER-ML  
XNKT080520PNSR-MM

### RM4PC(M) 3000/4000



#### ■ 3000 tip

: Ø40 - Ø100mm

#### • Uç

LNEX100605PNR-MF/MM  
LNMX100605PNR-MF/MM  
LNEX100608PNR-MF/MM  
LNMX100608PNR-MF/MM  
LNEX100605PNR-MA  
LNEX100605PNL-MM  
LNMX100605PNL-MM

#### ■ 4000 tip

: Ø50 - Ø160mm

#### • Uç

LNEX151004PNR-MF/MM  
LNMX151004PNR-MF/MM  
LNEX151008PNR-MF/MM  
LNMX151008PNR-MF/MM  
LNEX151016PNR-MF/MM  
LNMX151016PNR-MF/MM  
LNEX151004PNR-MA  
LNEX151008PNR-MA  
LNEX151008PNL-MM  
LNMX151008PNL-MM

### RM4PS 3000/4000



#### ■ 3000 tip

: Ø14 - Ø50mm

#### • Uç

LNEX100605PNR-MF/MM  
LNMX100605PNR-MF/MM  
LNEX100608PNR-MF/MM  
LNMX100608PNR-MF/MM  
LNEX100605PNR-MA  
LNEX100605PNL-MM  
LNMX100605PNL-MM

#### ■ 4000 tip

: Ø32 - Ø63mm

#### • Uç

LNEX151004PNR-MF/MM  
LNMX151004PNR-MF/MM  
LNEX151008PNR-MF/MM  
LNMX151008PNR-MF/MM  
LNEX151016PNR-MF/MM  
LNMX151016PNR-MF/MM  
LNEX151004PNR-MA  
LNEX151008PNR-MA

### RM4PM 3000



#### ■ 3000 tip

: Ø14 - Ø50mm

#### • Uç

LNEX100605PNR-MF/MM  
LNMX100605PNR-MF/MM  
LNEX100608PNR-MF/MM  
LNMX100608PNR-MF/MM  
LNEX100605PNR-MA  
LNEX100605PNL-MM  
LNMX100605PNL-MM

• Please refer to page 88 for available adaptors

### RM4ZC(M) 3000/4000



#### ■ 3000 tip

: Ø40 - Ø63mm

#### • Uç

LNEX100605PNL-MM  
LNMX100605PNL-MM

#### ■ 4000 tip

: Ø66 - Ø100mm

#### • Uç

LNEX151008PNL-MM  
LNMX151008PNL-MM

### RM4ZS 3000



#### ■ 3000 tip

: Ø25 - Ø40mm

#### • Uç

LNEX100605PNL-MM  
LNMX100605PNL-MM

### RM4ZM 3000



#### ■ 3000/4000 tip

: Ø25 - Ø40mm

#### • Uç

LNEX100605PNL-MM  
LNMX100605PNL-MM

• Uygun adaptörler için 88. sayfaya bakınız.

### RM8AC(M) 4000/5000



#### ■ 4000 tip

: Ø50 - Ø400mm

#### • Uç

SNEX1206ANN-MF/MM  
SNMX1206ANN-MF/MM  
SNEX1206ANN-MA  
SNEX1206ANN-ML  
SNEX1206ANN-W

#### ■ 5000 tip

: Ø80 - Ø400mm

#### • Uç

SNEX1507ANN-MF/MM  
SNMX1507ANN-MF/MM  
SNEX1507ANN-ML

# Yüzey Frezeleme Takımları

## ► Rich Mill Serisi

### RMH8AC(M) 4000/5000



- **4000 tip**  
: Ø80 - Ø400mm
- **5000 tip**  
: Ø80 - Ø400mm
- **Uç**  
SNEX1206ANN-MF/MM  
SNMX1206ANN-MF/MM  
SNEX1206ANN-MA  
SNEX1206ANN-ML  
SNEX1206ANN-W
- **Uç**  
SNEX1507ANN-MF/MM  
SNMX1507ANN-MF/MM  
SNEX1507ANN-ML

### RM8EC(M) 4000/5000



- **4000 tip**  
: Ø50 - Ø400mm
- **5000 tip**  
: Ø80 - Ø400mm
- **Uç**  
SNEX1206ENN-MF/MM  
SNMX1206ENN-MF/MM  
SNEX1206ENN-MA  
SNEX1206ENN-ML
- **Uç**  
SNEX1507ENN-MF/MM  
SNMX1507ENN-MF/MM  
SNEX1507ENN-ML

### RMH8EC(M) 4000/5000



- **4000 tip**  
: Ø80 - Ø400mm
- **5000 tip**  
: Ø80 - Ø400mm
- **Uç**  
SNEX1206ENN-MF/MM  
SNMX1206ENN-MF/MM  
SNEX1206ENN-MA  
SNEX1206ENN-ML
- **Uç**  
SNEX1507ENN-MF/MM  
SNMX1507ENN-MF/MM  
SNMX1507ENN-ML

### RM8QC(M) 4000



- **4000 tip**  
: Ø63 - Ø200mm
- **Uç**  
SNEX1206QNN-MF/MM  
SNMX1206QNN-MF/MM  
SNEX1206QNN-MA  
SNEX1206QNN-ML  
SNEX120612-MF/MM  
SNMX120612-MF/MM  
SNEX120612-MA  
SNEX120612-ML

### RMH8QC(M) 4000



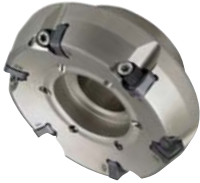
- **4000 tip**  
: Ø80 - Ø200mm
- **Uç**  
SNEX1206QNN-MF/MM  
SNMX1206QNN-MF/MM  
SNEX1206QNN-MA  
SNEX1206QNN-ML  
SNEX120612-MF/MM  
SNMX120612-MF/MM  
SNEX120612-MA  
SNEX120612-ML

### RMT8A(M) 4000/5000



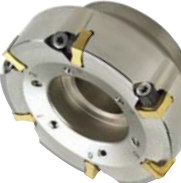
- **4000 tip**  
: Ø80 - Ø315mm
- **5000 tip**  
: Ø80 - Ø315mm
- **Uç**  
SNCF1206ANN-MF/MM  
SNMF1206ANN-MF/MM
- **Uç**  
SNCF1507ANN-MF/MM  
SNMF1507ANN-MF/MM

### RMT8E(M) 4000/5000



- **4000 tip**  
: Ø80 - Ø315mm
- **5000 tip**  
: Ø80 - Ø315mm
- **Uç**  
SNCF1206ENN-MF/MM  
SNMF1206ENN-MF/MM
- **Uç**  
SNCF1507ENN-MF/MM  
SNMF1507ENN-MF/MM

### RMT8Q(M) 4000



- **4000 tip**  
: Ø80 - Ø315mm
- **Uç**  
SNMF1206QNN-MF/MM

### RM16AC(M) 6000/8000



- **6000 tip**  
: Ø63 - Ø400mm
- **8000 tip**  
: Ø63 - Ø400mm
- **Uç**  
ONMX060608-MM/MF  
ONHX060608-MM/MF/ML  
ONHX060608-W  
ONMX0606ANN-MF/MM  
ONHX0606ANN-MF/MM  
ONHX060608-MA
- **Uç**  
ONMX080608-MF/MM  
ONHX080608-MF/MM/ML  
ONHX080608-W  
ONMX0806ANN-MF/MM  
ONHX0806ANN-MF/MM  
ONHX080608-MA

# Yüzey Frezeleme Takımları

## ► Rich Mill Serisi(Yüzey ve Kenar Frezeleme Takımları)

### RM4PFCB 3000/4000



- 3000 tip  
: Ø80 - Ø160mm
- 4000 tip  
: Ø80 - Ø160mm
- Uç  
LNEX100605PNR-MM  
LNMX100605PNR-MM  
LNEX100605PNL-MM  
LNMX100605PNL-MM
- Uç  
LNEX151008PNR-MM  
LNMX151008PNR-MM  
LNEX151008PNL-MM  
LNMX151008PNL-MM

### RM4PHCB 3000/4000



- 3000 tip  
: Ø80 - Ø160mm
- 4000 tip  
: Ø80 - Ø160mm
- Uç  
LNEX100605PNR-MF/MM  
LNMX100605PNR-MF/MM  
LNEX100608PNR-MF/MM  
LNMX100608PNR-MF/MM  
LNEX100605PNR-MA
- Uç  
LNEX151004PNR-MF/MM  
LNMX151004PNR-MF/MM  
LNEX151008PNR-MF/MM  
LNMX151008PNR-MF/MM  
LNEX151016PNR-MF/MM  
LNMX151016PNR-MF/MM  
LNEX151004PNR-MA  
LNEX151008PNR-MA

### RM4PFCP 3000/4000



- 3000 tip  
: Ø80 - Ø160mm
- 4000 tip  
: Ø80 - Ø160mm
- Uç  
LNEX100605PNR-MM  
LNMX100605PNR-MM  
LNEX100605PNL-MM  
LNMX100605PNL-MM
- Uç  
LNEX151008PNR-MM  
LNMX151008PNR-MM  
LNEX151008PNL-MM  
LNMX151008PNL-MM

### RM4PHCP 3000/4000



- 3000 tip  
: Ø80 - Ø160mm
- 4000 tip  
: Ø80 - Ø160mm
- Uç  
LNEX100605PNR-MF/MM  
LNMX100605PNR-MF/MM  
LNEX100608PNR-MF/MM  
LNMX100608PNR-MF/MM  
LNEX100605PNR-MA
- Uç  
LNEX151004PNR-MF/MM  
LNMX151004PNR-MF/MM  
LNEX151008PNR-MF/MM  
LNMX151008PNR-MF/MM  
LNEX151016PNR-MF/MM  
LNMX151016PNR-MF/MM  
LNEX151004PNR-MA  
LNEX151008PNR-MA

## ► Future Mill Serisi

### FMAC(M) 3000/4000



- 3000 tip  
: Ø50 - Ø125mm
- 4000 tip  
: Ø50 - Ø200mm
- Uç  
SEET0903AGFN-MA  
SEET0903AGSN-MF/MM  
SEXT0903AGSN-MF/MM/MR  
SEEW0903AGTN
- Uç  
SEET14M4AGFN-MA  
SEET14M4AGSN-MF/MM  
SEXT14M4AGSN-MF/MM/MR  
SEEW14M4AGTN  
SEEW14M4AGFN-W  
SEEW14M4AGSN-W  
SEEW14M4AGTN-W

### FMAS 3000/4000



- 3000 tip  
: Ø25 - Ø63mm
- 4000 tip  
: Ø50 - Ø63mm
- Uç  
SEET0903AGFN-MA  
SEET0903AGSN-MF/MM  
SEXT0903AGSN-MF/MM/MR  
SEEW0903AGTN
- Uç  
SEET14M4AGFN-MA  
SEET14M4AGSN-MF/MM  
SEXT14M4AGSN-MF/MM/MR  
SEEW14M4AGTN  
SEEW14M4AGFN-W  
SEEW14M4AGSN-W  
SEEW14M4AGTN-W

### FMPC(M) 3000/4000



- 3000 tip  
: Ø50 - Ø100mm
- 4000 tip  
: Ø63 - Ø125mm
- Uç  
SDET09M402R-MA  
SDET09M405R-MF/MM  
SDXT09M405R/L-MF  
SDXT09M405R/L-MM  
SDXT09M405R-MA
- Uç  
SDET130504R-MA  
SDET130508R-MF/MM  
SDXT130508R-MF/MM  
SDXT130538-MM  
SDXT130508R-MA

### FMPS 3000/4000



- 3000 tip  
: Ø25 - Ø63mm
- 4000 tip  
: Ø40 - Ø63mm
- Uç  
SDET09M402R-MA  
SDET09M405R-MF/MM  
SDXT09M405R/L-MF  
SDXT09M405R/L-MM  
SDXT09M405R-MA
- Uç  
SDET130504R-MA  
SDET130508R-MF/MM  
SDXT130508R-MF/MM  
SDXT130538-MM  
SDXT130508R-MA

### FMRC(M) 3000/4000



- 3000 tip  
: Ø40 - Ø100mm
- 4000 tip  
: Ø50 - Ø125mm
- Uç  
RDCT10T3M0-MA  
RDKT10T3M0-MF/MM
- Uç  
RDCT1204M0-MA  
RDKT1204M0-MF/MM

### FMRC(M) 5000/6000



- 5000 tip  
: Ø50 - Ø125mm
- 6000 tip  
: Ø63 - Ø160mm
- Uç  
RDHW1605M0E, F, S  
RDKT1605M0-MM/ML/MF
- Uç  
RDHW2006M0E, F, S  
RDKT2006M0-MM

# Yüzey Frezeleme Takımları

## ► Future Mill Serisi

### FMRS 1000/1500



- **1000 tip**  
: Ø8 - Ø15mm
- **Uç**  
RDHW0501M0E, F, S  
RDKW0501M0E
- **1500 tip**  
: Ø10 - Ø20mm
- **Uç**  
RDHW06T1M0E, F, S  
RDKW06T1M0E

### FMRS 2000/2500



- **2000 tip**  
: Ø15 - Ø20mm
- **Uç**  
RDHW0702M0E, F, S  
RDKW0702M0E
- **2500 tip**  
: Ø16 - Ø25mm
- **Uç**  
RDHW0803M0E, F, S  
RDKW0803M0E

### FMRS 3000/4000



- **3000 tip**  
: Ø21 - Ø40mm
- **Uç**  
RDCT10T3M0-MA  
RDKT10T3M0-MF/MM
- **4000 tip**  
: Ø32 - Ø50mm
- **Uç**  
RDCT1204M0-MA  
RDKT1204M0-MF/MM

### FMRS 5000/6000



- **5000 tip**  
: Ø40 - Ø63mm
- **Uç**  
RDHW1605M0E, F, S  
RDKT1605M0-MM/ML/MF
- **6000 tip**  
: Ø50 - Ø63mm
- **Uç**  
RDHW2006M0E, F, S  
RDKT2006M0-MM

### FMRM 1000/1500/2000/2500



- **1000/1500/2000/2500 tip**  
: Ø8 - Ø25mm
- **Uç**  
RDHW0501M0E, F, S  
RDKW0501M0E  
RDHW06T1M0E, F, S  
RDKW06T1M0E
- RDHW0702M0E, F, S  
RDKW0702M0E  
RDHW0803M0E, F, S  
RDKW0803M0E
- Uygun adaptörler için 88. sayfaya bakınız.

### FMRM 3000/4000/5000



- **3000/4000/5000 tip**  
: Ø21 - Ø40mm
- **Uç**  
RDCT10T3M0-MA  
RDKT10T3M0-MF / MM  
RDCT1204M0-MA  
RDKT1204M0-MF / MM  
RDHW1605M0E, F, S  
RDKT1605M0-MF/MM/ML
- Uygun adaptörler için 88. sayfaya bakınız.

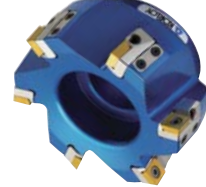
### FMAC(M) 3000-A/4000-A



Alüminyum Gövde

- **3000 tip**  
: Ø63 - Ø125mm
- **Uç**  
SEET0903AGFN-MA  
SEET0903AGSN-MF/MM  
SEXT0903AGSN-MF/MM/MR  
SEEW0903AGTN
- **4000 tip**  
: Ø63 - Ø315mm
- **Uç**  
SEET14M4AGFN-MA  
SEET14M4AGSN-MF/MM  
SEXT14M4AGSN-MF/MM/MR  
SEEW14M4AGTN  
SEEW14M4AGFN-W  
SEEW14M4AGSN-W  
SEEW14M4AGTN-W

### FMPC(M) 3000-A/4000-A



Alüminyum Gövde

- **3000 tip**  
: Ø63 - Ø100mm
- **Uç**  
SDET09M402R-MA  
SDET09M405R-MF/MM  
SDXT09M405R/L-MF  
SDXT09M405R/L-MM  
SDXT09M405R-MA
- **4000 tip**  
: Ø63 - Ø315mm
- **Uç**  
SDET130504R-MA  
SDET130508R-MF/MM  
SDXT130508R-MF/MM  
SDXT130538-MM  
SDXT130508R-MA

## ► FMR P-pozitif

### FMRC(M) 3000/4000



- **3000 tip**  
: Ø40 - Ø66mm
- **Uç**  
RPCT10T3M0-MA  
RPET10T3M0E-ML  
RPMT10T3M0E-MF  
RPMT10T3M0S-MM  
RPMW10T3M0E1
- **4000 tip**  
: Ø50 - Ø100mm
- **Uç**  
RPCT1204M0-MA  
RPET1204M0E-ML  
RPMT1204M0E-MF  
RPMT1204M0S-MM  
RPMW1204M0S1  
RPMW1204M0S2

### FMRC(M) 5000/6000



- **5000 tip**  
: Ø63 - Ø160mm
- **Uç**  
RPCT1606M0-MA  
RPET1606M0E-ML  
RPMT1606M0E-MF  
RPMT1606M0S-MM  
RPMW1606M0S1
- **6000 tip**  
: Ø63 - Ø250mm
- **Uç**  
RPCT2007M0-MA  
RPET2007M0E-ML  
RPMT2007M0E-MF  
RPMT2007M0S-MM  
RPMW2007M0S1

# Yüzey Frezeleme Takımları

## ► FMR P-pozitif

### FMRS 2500



- 2500 tip  
: Ø17 - Ø26mm
- Uç  
RPET0803M0E-ML  
RPMT0803M0E-MF  
RPMT0803M0S-MM  
RPMW0803M0E1

### FMRS 3000/4000



- 3000 tip  
: Ø25 - Ø33mm
- Uç  
RPCT10T3M0-MA  
RPET10T3M0E-ML  
RPMT10T3M0E-MF  
RPMT10T3M0S-MM  
RPMW10T3M0E1
- 4000 tip  
: Ø25 - Ø50mm
- Uç  
RPCT1204M0-MA  
RPET1204M0E-ML  
RPMT1204M0E-MF  
RPMT1204M0S-MM  
RPMW1204M0S1  
RPMW1204M0S2

### FMRS 5000/6000



- 5000 tip  
: Ø40 - Ø50mm
- Uç  
RPCT1606M0-MA  
RPET1606M0E-ML  
RPMT1606M0E-MF  
RPMT1606M0S-MM  
RPMW1606M0S1
- 6000 tip  
: Ø50mm
- Uç  
RPCT2007M0-MA  
RPCT2007M0E-ML  
RPMT2007M0E-MF  
RPMT2007M0S-MM  
RPMW2007M0S1

### FMRM 2500/3000/4000/5000



- 2500/3000/4000/5000 tip  
: Ø17-42mm
- Uç  
RPCT0803M0E-ML  
RPMT0803M0E-MF  
RPMT0803M0S-MM  
RPMW0803M0E1  
RPCT10T3M0-MA  
RPET10T3M0E-ML  
RPMT10T3M0E-MF  
RPMT10T3M0S-MM  
RPMW10T3M0E1  
RPCT1204M0-MA
- Uç  
RPCT1204M0E-ML  
RPMT1204M0E-MF  
RPMT1204M0S-MM  
RPMW1204M0S1  
RPMW1204M0S2  
RPCT1606M0-MA  
RPET1606M0E-ML  
RPMT1606M0E-MF  
RPMT1606M0S-MM  
RPMW1606M0S1

## ► Double-Mill Serisi

### AFO(M) 4000



- 4000 tip  
: Ø80 - Ø125mm
- Uç  
OFCW05T3SN  
OFCW05T3FN  
OFCW05T308FN  
OFKT05T3SN-MF/MM  
OFKT05T308SN-MF/MM  
OFKT05T3FN-MA  
OFKT05T3EN-MA

### AFO(M) 5000



- 5000 tip  
: Ø80 - Ø315mm
- Uç  
OFCN0704SN  
OFCN0704FN  
OFCN070408SN  
OFCN070408FN  
OFKR0704SN-MF/MM  
OFKR070408SN-MF/MM  
OFKR0704E(F)N-MA  
OFKT0704SN-MM  
OFKT0704E(F)N-MA  
REKR170400-MM

## ► Power Buster Serisi

### PBAC(M) 5000



- 5000 tip  
: Ø80 - Ø315mm
- Uç  
TNMX2710AZNR-NM  
TNMX2710AZNL-NM

### PBZC(M) 5000



- 5000 tip  
: Ø80 - Ø315mm
- Uç  
TNMX2710AZNR-NM  
TNMX2710AZNL-NM

# Yüzey Frezeleme Takımları

## ► Mill-Max Serisi

### ADN(M) 4000/5000<sup>+</sup>



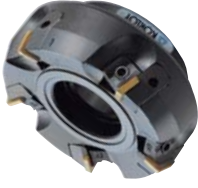
- **4000 tip**  
: Ø80 - Ø315mm
- **Uç**  
SDCN42  
SDCN1203  
SDKN1203  
SDKR1203
- **5000<sup>+</sup> tip**  
: Ø80 - Ø315mm
- **Uç**  
SDCN53  
SDCN1504  
SDKN1504  
SDKR1504

### AE(M) 4000/5000



- **4000 tip**  
: Ø80 - Ø315mm
- **Uç**  
SECN1203  
SEKN1203  
SEKR1203
- **5000 tip**  
: Ø80 - Ø315mm
- **Uç**  
SECN1504  
SEKN1504

### EF(M) 4000



- **4000 tip**  
: Ø80 - Ø315mm
- **Uç**  
SFCN1203EFR

### EN(M) 4000



- **4000 tip**  
: Ø80 - Ø315mm
- **Uç**  
SNCN1204ENN  
SNKN1204ENN

### EPN(M) 4000/5000<sup>+</sup>



- **4000 tip**  
: Ø80 - Ø315mm
- **Uç**  
SPCN1203  
SPKN1203  
SPKR1203  
SPEX1203
- **5000<sup>+</sup> tip**  
: Ø80 - Ø315mm
- **Uç**  
SPCN1504  
SPKN1504  
SPKR1504  
SPEX1504

### PF(M) 4000



- **4000 tip**  
: Ø80 - Ø315mm
- **Uç**  
TFCN2203PFR  
TFCN2203PFL

### PPN(M) 4000



- **4000 tip**  
: Ø80 - Ø315mm
- **Uç**  
TPCN2204  
TPKN2204  
TPKR2204

## ► Shave Mill

### SVM(M) 4000



- **4000 tip**  
: Ø80 - Ø315mm
- **Uç**  
SNEU120420-MF  
SNEU1204ANN-MF  
SNEU1204R-WMF  
SNEU1204-TBW

## ► Shave Mill Ultra

### SVUM 6000



- **6000 tip**  
: Ø80 - Ø315mm
- **Uç**  
LNCS1907-R3.0-WC  
LNCS1907-C1.5-WC

### SVUM 6000-B



- **6000 tip**  
: Ø80 - Ø315mm
- **Uç**  
LNCS1907-R3.0-WC  
LNCS1907-C1.5-WC



# Yüzey Frezeleme Takımları

## ► Yüksek İlerlemeli Takımlar

### ANH 4000/5000



- 4000 tip  
: Ø100 - Ø450mm
- 5000 tip  
: Ø100 - Ø450mm
- Uç  
SNCN1204ENN  
SNKN1204ENN
- Uç  
SNCN 1504ENN  
SNKN 1504ENN

### CDH 4000/5000



- 4000 tip  
: Ø100 - Ø450mm
- 5000 tip  
: Ø100 - Ø450mm
- Uç  
SDCN42R  
SDCN42L
- Uç  
SDCN53R  
SDCN53L

### DEH 5000



- Ø100 - Ø450mm
- Uç  
HECN090408FN  
HECN090408SN  
HECN090408TN

### DPH 5000



- Ø100 - Ø450mm
- Uç  
HPEN090408FN  
HPEN090408SN  
HPEN090408EN  
HPEN090408-WC

### PNH 4000/5000

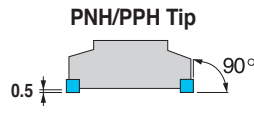
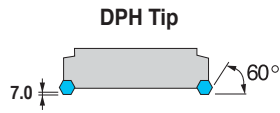
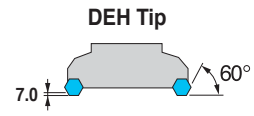
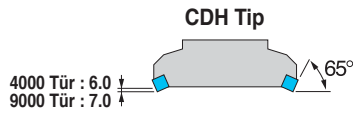
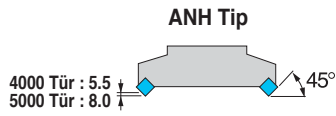


- Ø125 - Ø450mm
- Uç  
SNEF435

### PPH 4000



- Ø125 - Ø450mm
- Uç  
SPEN120416-WC

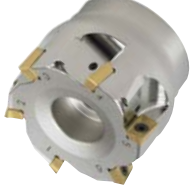


# Çok Amaçlı Takımlar

## ► Alpha Mill Serisi

### AMC(M)-S

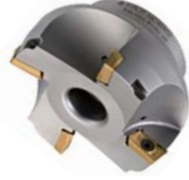
1000S, 1500S, 2000S, 3000S(-K), 4000S



- 1000 tip  
: Ø32 - Ø63mm
- 1500 tip  
: Ø40 - Ø100mm
- 2000 tip  
: Ø40 - Ø100mm
- 3000 tip  
: Ø40 - Ø100mm
- 4000 tip  
: Ø50 - Ø200mm

### AMC(M)-SE

1000SE, 2000SE, 3000SE



- 1000 tip  
: Ø40 - Ø50mm
- 2000 tip  
: Ø80 - Ø100mm
- 3000 tip  
: Ø80 - Ø100mm

### AMC(M)-M

2000M, 3000M, 4000M



- 2000 tip  
: Ø50 - Ø100mm
- 3000 tip  
: Ø63 - Ø100mm
- 4000 tip  
: Ø63 - Ø125mm

### AMS-S

1000S, 1500S, 2000S, 3000S, 3000S(-K), 4000S



- 1000 tip  
: Ø10 - Ø33mm
- 1500 tip  
: Ø10 - Ø40mm
- 2000 tip  
: Ø10 - Ø63mm
- 3000 tip  
: Ø25 - Ø63mm
- 4000 tip  
: Ø20 - Ø63mm

### AMS-SE

1000SE, 2000SE, 3000SE



- 1000 tip  
: Ø25mm
- 2000 tip  
: Ø25 - Ø63mm
- 3000 tip  
: Ø50 - Ø63mm

### AMS-M

1000M, 1500M, 2000M, 4000M



- 1000 tip  
: Ø16 - Ø25mm
- 1500 tip  
: Ø20 - Ø32mm
- 2000 tip  
: Ø20 - Ø40mm
- 4000 tip  
: Ø32 - Ø50mm

### AMS-MH

1000MH, 1500MH, 2000MH, 3000MH-K



- 1000 tip  
: Ø14 - Ø18mm
- 1500 tip  
: Ø20mm
- 2000 tip  
: Ø25 - Ø32mm
- 3000 tip  
: Ø40mm

### AMM

1000M, 1500M, 2000M



- 1000 tip  
: Ø12 - Ø32mm
- 1500 tip  
: Ø10 - Ø32mm
- 2000 tip  
: Ø16 - Ø40mm

• Uygun adaptörler için 88. sayfaya bakınız.

### BT Tooling system(Single)

AM1000HS, AM1500HS, AM2000HS, AM3000HS, AM4000HS



- 1000 tip  
: Ø10 - Ø20mm
- 1500 tip  
: Ø16 - Ø40mm
- 2000 tip  
: Ø16 - Ø50mm
- 3000 tip  
: Ø25 - Ø50mm
- 4000 tip  
: Ø20 - Ø50mm

### BT Tooling system(Multi)

AM1000, AM1500, AM2000, AM3000, AM4000



- 1000 tip  
: Ø16 - Ø25mm
- 1500 tip  
: Ø20 - Ø32mm
- 2000 tip  
: Ø20 - Ø100mm
- 3000 tip  
: Ø50 - Ø100mm
- 4000 tip  
: Ø40 - Ø100mm

### HSK Tooling system(Single)

AM1000HS, AM1500HS, AM2000HS, AM3000HS, AM4000HS



- 1000 tip  
: Ø10 - Ø20mm
- 1500 tip  
: Ø16 - Ø40mm
- 2000 tip  
: Ø16 - Ø50mm
- 3000 tip  
: Ø25 - Ø50mm
- 4000 tip  
: Ø20 - Ø50mm

### HSK Tooling system(Multi)

AM1000, AM1500, AM2000, AM3000, AM4000



- 1000 tip  
: Ø16 - Ø25mm
- 1500 tip  
: Ø20 - Ø32mm
- 2000 tip  
: Ø20 - Ø100mm
- 3000 tip  
: Ø50 - Ø100mm
- 4000 tip  
: Ø40 - Ø100mm

# Çok Amaçlı Takımlar

## ► Have Mill Serisi

### HAVE(Multi Edge)



Ø16 - Ø50mm

- Uç  
XPMT0802ER-MM  
XPMT1003ER-MM  
XPMT13T3ER-MM  
XPMT1604ER-MM  
XPMT1805ER-MM  
XPMT2006ER-MM  
XPMT2507ER-MM

### HAVE(Single Edge)



Ø16 - Ø50mm

- Uç  
XPMT0802ER-MM  
XPMT1003ER-MM  
XPMT13T3ER-MM  
XPMT1604ER-MM  
XPMT1805ER-MM  
XPMT2006ER-MM  
XPMT2507ER-MM

## ► Tank Mill Serisi

### THE



Ø25 - Ø50mm

- Uç  
SPMT060304  
SDMT090308-MM  
SPMT120408-MM  
APLT070304R  
ADLT150308R  
ZPMT1504PPSR-MM

## ► Turbo Mill Serisi

### ADS 4000/5000



■ 4000 tip  
: Ø50 - Ø63mm

- Uç  
SDCN42  
SDCN1203  
SDKN1203  
SDKR1203

■ 5000 tip  
: Ø50 - Ø63mm

- Inset  
SDCN53  
SDCN1504  
SDKN1504  
SDKR1504

### PES 2000/3000/4000



2000/3000



4000

■ 2000 / 3000 / 4000 tip  
: Ø20 - Ø63mm

- Uç  
TECN22R/TR  
TECN32R/TR  
TECN32TR-S20  
TEEN43R/TR  
TEEN43R-G  
TEEN43TR-S20  
TEEN43TR-Z  
TEEN43TR-ZH

## ► T-Kesici

### TFE



Ø21 - Ø50mm

- Uç  
CPMT060204-MM  
CPMT080308-MM  
CPMT09T308-MM  
CPMH120408-MM

## ► Pah Takımları

### CE(Ön & Arka)



• Pah Açılırları  
15°, 30°, 45°, 60°

- Uç  
SPMT110408-KC  
SPMN120308

15-1125R-S20  
30-1125R-S20  
45-1107R-S20  
45-1119R-S20  
45-1125R-S20  
60-1125R-S32  
45-1207R-S32  
45-1220R-S32  
45-1225R-S32  
45-1235R-S32

### CE(Uzun Pah)



• Pah Açılırları  
30°, 45°, 60°

- Uç  
XCET310404ER-KC

30-3105R-S32  
45-3105R-S32  
60-3105R-S32

### CE(Çok Fonksiyonlu)



• Pah Açılırları  
45°

- Uç  
TWX16R-KC  
TWX22R-KC

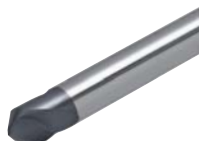
45-1600R-S12  
45-1600R-S20  
45-1600R-L20  
45-2200R-S12  
45-2200R-S25  
45-2200R-L25

### CET



CET060-030 CET090-120  
CET060-040 CET090-160  
CET060-060 CET120-030  
CET060-080 CET120-040  
CET060-100 CET120-060  
CET060-120 CET120-080  
CET060-160 CET120-100  
CET090-030 CET120-120  
CET090-040 CET120-160  
CET090-060  
CET090-080  
CET090-100

### CCT



CCT060-030 CCT060T-012 CCT090-010 CCT090T-060L CCT120T-040  
CCT060-040 CCT060T-016 CCT090-012 CCT090T-080L CCT120T-060  
CCT060-060 CCT060T-030L CCT090-016 CCT090T-010L CCT120T-080  
CCT060-080 CCT060T-040L CCT090T-030 CCT090T-012L CCT120T-010  
CCT060-010 CCT060T-060L CCT090T-040 CCT120-030 CCT120T-012  
CCT060-012 CCT060T-080L CCT090T-060 CCT120-040 CCT120T-016  
CCT060-016 CCT060T-010L CCT090T-080 CCT120-060 CCT120T-030L  
CCT060T-030 CCT060T-012L CCT090T-010 CCT120-080 CCT120T-040L  
CCT060T-040 CCT090-030 CCT090T-012 CCT120-010 CCT120T-060L  
CCT060T-060 CCT090-040 CCT090T-016 CCT120-012 CCT120T-080L  
CCT060T-080 CCT090-060 CCT090T-030L CCT120-016 CCT120T-010L  
CCT060T-010 CCT090-080 CCT090T-040L CCT120T-030 CCT120T-012L

# Alüminyum Frezeleme Takımları

## ► Pro-A Mill

### PAC(M) 2000/4000



- 2000/4000 tip  
: Ø40 - Ø100mm
- Uç  
VCKT220530N-MA

### PAS 2000/4000



- 2000/4000 tip  
: Ø12 - Ø40mm
- Uç  
VDKT11T210N-MA  
VDKT11T220N-MA  
VCKT220530N-MA

### PAM 2000



- 2000 tip  
: Ø12 - Ø42mm
- Uç  
VDKT11T210N-MA

• Uygun adaptörler için 88. sayfaya bakınız.

## ► Pro-X Mill

### PAXC(M) 5000/6000



- 5000 tip  
: Ø40 - Ø125mm
- Uç  
XEKT19M5□□FR-MA
- 6000 tip  
: Ø50 - Ø125mm
- Uç  
XEKT2506□□FR-MA

### PAXS 5000/6000



- 5000 tip  
: Ø20 - Ø40mm
- Uç  
XEKT19M5□□FR-MA
- 6000 tip  
: Ø25 - Ø40mm
- Uç  
XEKT2506□□FR-MA

### PAXM 5000



- 5000 tip  
: Ø25 - Ø40mm
- Uç  
XEKT19M5□□FR-MA

• Uygun adaptörler için 88. sayfaya bakınız.

## ► Pro-L Mill

### PALCM



- Ø63mm
- Uç  
340504PEFR-63-MA  
3405PEFR-63-MA  
340512PEFR-63-MA  
340516PEFR-63-MA  
340504PEER-63-ML  
3405PEER-63-ML  
340512PEER-63-ML  
340516PEER-63-ML

### PALS(Single Edge)



- Ø32mm - Ø63mm
- Uç  
LXET-MA  
LXET-ML

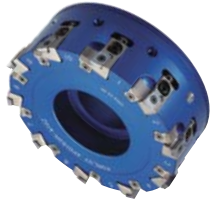
### PALS(Multi Edge)



- Ø63mm
- Uç  
LXET-MA  
LXET-ML

## ► Aero Mill

### APD(M)-A



- Ø80 - Ø315mm
- Uç  
CDEW1204R/L-XCF  
CDEW1204R/L-XAF  
CDEW1204R-NAF  
CDEW1204R/L-XAW  
CDEW1204R-NAW

## ► Aero Mill-Plus

### APD(M)-PB



- Ø80 - Ø315mm
- Uç  
BAMPR-XAF  
BAMPR-XAW  
BAMPR-XAWR

## ► Aero Mill-Mini

### MAPD000HR/L-Z0



- Ø40 - Ø63mm
- Uç  
SNEW09T3ADFR  
SNEW09T3ADTR-XAF  
SNEW09T3ADTR-XAW  
SNEW09T3ADTR-NAF  
SNEW09T3ADTR-NAW

### MAPDS000HR/L-Z0



- Ø32 - Ø40mm
- Uç  
SNEW09T3ADFR  
SNEW09T3ADTR-XAF  
SNEW09T3ADTR-XAW  
SNEW09T3ADTR-NAF  
SNEW09T3ADTR-NAW

# Yüksek İlerlemeli Freze Takımları

## ► HRM/HRMDouble Çift Taraflı Takımlar

### HRMDC(M) 09/13



- **09 tip**  
: Ø40 - Ø100mm
- **Uç**  
WNMX09T316ZNN-MF/MM
- **13 tip**  
: Ø50 - Ø125mm
- **Uç**  
WNMX130520ZNN-MF/MM

### HRMDC(M) 16



- **16 tip**  
: Ø80 - Ø315mm
- **Uç**  
WNMX160720ZNN-MF/MM

### HRMDS 06



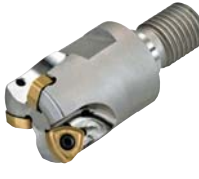
- **06 tip**  
: Ø16 - Ø33mm
- **Uç**  
WNMX060312ZNN-MF/MM

### HRMDS 09/13



- **09 tip**  
: Ø25 - Ø50mm
- **Uç**  
WNMX09T316ZNN-MF/MM
- **13 tip**  
: Ø32 - Ø63mm
- **Uç**  
WNMX130520ZNN-MF/MM

### HRMDM 06



- **06 tip**  
: Ø16 - Ø33mm
- **Uç**  
WNMX060312ZNN-MF/MM

• Uygun adaptörler için 88. sayfaya bakınız.

### HRMDM 09/13



- **09 tip**  
: Ø25 - Ø40mm
- **Uç**  
WNMX09T316ZNN-MF/MM
- **13 tip**  
: Ø32 - Ø40mm
- **Uç**  
WNMX130520ZNN-MF/MM

• Uygun adaptörler için 88. sayfaya bakınız.

### HRMC(M) 13/15



- **13 tip**  
: Ø50 - Ø160mm
- **Uç**  
WDKT130520ZDSR-MH
- **15 tip**  
: Ø80 - Ø160mm
- **Uç**  
WDKT150625ZDSR-MH

### HRMS 08/10



- **08 tip**  
: Ø20 - Ø30mm
- **Uç**  
WDKT080316ZDSR-MH
- **10 tip**  
: Ø25 - Ø30mm
- **Uç**  
WDKT10T320ZDSR-MH

### HRMS 13/15



- **13 tip**  
: Ø32 - Ø40mm
- **Uç**  
WDKT130520ZDSR-MH
- **15 tip**  
: Ø50 - Ø63mm
- **Uç**  
WDKT150625ZDSR-MH

### HRMM 08/10/13



- **08/10/13 tip**  
: Ø20 - Ø40mm
- **Uç**  
WDKT080316ZDSR-MH  
WDKT10T320ZDSR-MH  
WDKT130520ZDSR-MH

• Uygun adaptörler için 88. sayfaya bakınız.

## ► HFM(Yüksek İlerlemeli Frezeleme)

### HFMS 1000



- **1000 tip**  
: Ø8 - Ø21mm
- **Uç**  
LPMT040210R-MF  
LPMT040220R-MF  
LPMW040210R  
LPMW040220R  
LPEW040210R  
LPEW040220R

### HFMM 1000



- **1000 tip**  
: Ø8 - Ø33mm
- **Uç**  
LPMT040210R-MF  
LPMT040220R-MF  
LPMW040210R  
LPMW040220R  
LPEW040210R  
LPEW040220R

• Uygun adaptörler için 88. sayfaya bakınız.

# Kanal Frezeleri

## ► Teğetsel Tip(Tam Kenar Kesici)

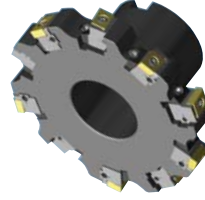
### TAFCP(M)



Ø100 - Ø315mm

- Uç  
CNHQ1005-□□□  
CNHQ1305-□□□  
CNHQ1606-□□□

### TAFCB(M)



Ø100 - Ø315mm

- Uç  
CNHQ1005-□□□  
CNHQ1305-□□□  
CNHQ1606-□□□

## ► Teğetsel Tip(Yarım Kenar Kesici)

### TAHCP(M)



Ø100 - Ø315mm

- Uç  
CNHQ1005-□□□  
CNHQ1305-□□□  
CNHQ1606-□□□

### TAHCB(M)



Ø100 - Ø315mm

- Uç  
CNHQ1005-□□□  
CNHQ1305-□□□  
CNHQ1606-□□□

## ► Radyal Tip(Tam Kenar Kesici)

### RAFCP(M)



Ø100 - Ø315mm

- Uç  
SDXT09M40□R/L  
SDXT13050□R/L

### RAFCB(M)



Ø100 - Ø315mm

- Uç  
SDXT09M40□R/L  
SDXT13050□R/L

## ► Radyal Tip(Yarım Kenar Kesici)

### RAHCP(M)



Ø100 - Ø315mm

- Uç  
SDXT09M40□R/L  
SDXT13050□R/L

### RAHCB(M)



Ø100 - Ø315mm

- Uç  
SDXT09M40□R/L  
SDXT13050□R/L

# Kanal Frezeleri

## ► Kanal Frezeleri

### FC(M) Tam Kenar Kesici



Ø80 - Ø315mm  
• Uç  
TPCN1103PPN  
TPCN1603PPN

### HC(M) Yarım Kenar Kesici



Ø100 - Ø315mm  
• Uç  
TPCN1603PPN

### SPP(M)



Ø80 - Ø200mm  
• Uç  
PNEJ12□□N

### SPB(M)



Ø80 - Ø200mm  
• Uç  
PNEJ12□□N

### SPS



Ø50 - Ø200mm  
• Uç  
SPFN200  
SPFN300  
SPFN400

## ► Wind Mill

### RAHCP(M) Flanşlı Tip



Ø80 - Ø250mm  
• Uç  
SNHT11023□□R/L-WX SNHT1205□R/L-WX  
SNHT1103 □□R/L-WX SNHT12054□R/L-WX  
SNHT1203□□R/L-WX SNHT1206□□R/L-WX  
SNHT12035□□R/L-WX SNHT12065□□R/L-WX  
SNHT1204□□R/L-WX SNHT1207□□R/L-WX  
SNHT12045□□R/L-WX SNHT12075□□R/L-WX

### RAHCB(M) Düz Tip



Ø80 - Ø250mm  
Uç  
SNHT11023□□R/L-WX SNHT1205□R/L-WX  
SNHT1103□□R/L-WX SNHT12054□R/L-WX  
SNHT1203□□R/L-WX SNHT1206□□R/L-WX  
SNHT12035□□R/L-WX SNHT12065□□R/L-WX  
SNHT1204□□R/L-WX SNHT1207□□R/L-WX  
SNHT12045□□R/L-WX SNHT12075□□R/L-WX

# Parmak Frezeler/Matkaplar

KORLOY ileri teknolojisi ve takım sistemlerindeki bilgi birikimi ile yüksek verimlilik ve kalite için yüksek kaliteli frezeler ve matkaplar sunmaktadır.

Yekpare Parmak Frezeler  
Karbür Matkaplar  
Takma Uçlu Matkaplar  
Takma Uçlu Parmak Frezeler



# Yekpare Parmak Frezeler

## ► H Freze

PBE2000(Küre)



Ağız sayısı : 2  
Kesme çapı : Ø0.5 ~ Ø12

PRE4000(Radyus)



Ağız sayısı : 4  
Kesme çapı : Ø3 ~ Ø16

## ► V Freze

VFE4000(Düz)



Ağız sayısı : 4  
Kesme çapı : Ø2.5 ~ Ø16

## ► Z Freze

ZFE2000(Düz)



Ağız sayısı : 2  
Kesme çapı : Ø1 ~ Ø16

ZFE4000(Düz)



Ağız sayısı : 4  
Kesme çapı : Ø1 ~ Ø16

ZSFE2000(Kısa Düz)



Ağız sayısı : 2  
Kesme çapı : Ø1 ~ Ø12

ZSFE4000(Kısa Düz)



Ağız sayısı : 4  
Kesme çapı : Ø1 ~ Ø14

ZBE2000(Küre)



Ağız sayısı : 2  
Kesme çapı : Ø1 ~ Ø12

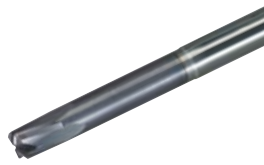
## ► F Freze

FME4000(Standart)



Ağız sayısı : 4  
Kesme çapı : Ø6 ~ Ø12

FMLE4000(Uzun)



Ağız sayısı : 4  
Kesme çapı : Ø6 ~ Ø12

## ► S+ Freze

SPFE4000(Düz)



Ağız sayısı : 4  
Kesme çapı : Ø1 ~ Ø12

SPLFE4000(Uzun Düz)



Ağız sayısı : 4  
Kesme çapı : Ø1 ~ Ø12

# Yekpare Parmak Frezeler

## ► R+ Freze

### EM09CA(Kaba Talaş)

Finiş yapabilen Kaba Freze



Ağız sayısı : 4  
Kesme çapı : Ø6.0 ~ Ø20.0

### EM11CA(Kaba Talaş)

Alüminyumun Kıvrımlı formu için Kaba Freze



Ağız sayısı : 3  
Kesme çapı : Ø6.0 ~ Ø25.0

### EM36CA(Kaba Talaş)

İnce Hatveli Uzun Tip Kaba Freze

• Yüksek helis açısı, düzensiz kanal aralığı ve adım



Ağız sayısı : 4  
Kesme çapı : Ø5 ~ Ø20

### EM37CA(Kaba Talaş)

İnce Hatveli Kaba Freze



Ağız sayısı : 4  
Kesme çapı : Ø5 ~ Ø20

### EM38CA(Kaba Talaş)

Standart Kaba Freze



Ağız sayısı : 4  
Kesme çapı : Ø5 ~ Ø20

### EM43CA(Kaba Talaş)

İnce Hatveli Standart Kaba Freze

• Yüksek helis açısı, düzensiz kanal aralığı ve adım



Ağız sayısı : 4  
Kesme çapı : Ø5 ~ Ø20

### EM11PM(Kaba Talaş)

4F Kaba Freze



Ağız sayısı : 4  
Kesme çapı : Ø6 ~ Ø20

### EM16PM(Kaba Talaş)

İnce Hatveli Kaba Freze

• Düzensiz kanal aralığı



Ağız sayısı : 4  
Kesme çapı : Ø6 ~ Ø20

### EM17PM(Kaba Talaş)

İnce Hatveli Kaba Freze

• Düzensiz kanal aralığı



Ağız sayısı : 4  
Kesme çapı : Ø6 ~ Ø20

### EM06H9(Kaba Talaş)

Kaba Freze



Ağız sayısı : 4  
Kesme çapı : Ø6 ~ Ø50

# Yekpare Parmak Frezeler

## ► I+ Freze

### IPFE2000(Düz)



Ağız sayısı : 2  
Kesme çapı : Ø1 ~ Ø20

### IPFE4000(Düz)



Ağız sayısı : 4  
Kesme çapı : Ø1 ~ Ø20

### IPLFE2000(Uzun Düz)



Ağız sayısı : 2  
Kesme çapı : Ø6 ~ Ø12

### IPLFE4000(Uzun Düz)



Ağız sayısı : 4  
Kesme çapı : Ø6 ~ Ø12

### IPBE2000(Küre)



Ağız sayısı : 2  
Kesme çapı : Ø0.5 ~ Ø10

### IPBE4000(Küre)



Ağız sayısı : 4  
Kesme çapı : Ø0.5 ~ Ø10

### IPLBE2000(Uzun Küre)



Ağız sayısı : 2  
Kesme çapı : Ø0.5 ~ Ø8

### IPRE2000(Radyüs)



Ağız sayısı : 2  
Kesme çapı : Ø1 ~ Ø12

### IPRE4000(Radyüs)



Ağız sayısı : 4  
Kesme çapı : Ø2 ~ Ø12

### IPLRE2000(Uzun Radyüs)



Ağız sayısı : 2  
Kesme çapı : Ø3 ~ Ø12

### IPLRE4000(Uzun Radyüs)



Ağız sayısı : 4  
Kesme çapı : Ø3 ~ Ø12

# Yekpare Parmak Frezeler

## ► Alüminyum için Parmak Frezeler

SSEA2000(Düz)



Ağız sayısı : 2  
Kesme çapı : Ø1 ~ Ø20

SSEA3000(Düz)



Ağız sayısı : 3  
Kesme çapı : Ø2 ~ Ø16

SSBEA2000(Küre)



Ağız sayısı : 2  
Kesme çapı : Ø1 ~ Ø20

## ► A+ Freze

APFE2000(Düz)



Ağız sayısı : 2  
Kesme çapı : Ø2.5 ~ Ø20

APFE3000(Düz)



Ağız sayısı : 3  
Kesme çapı : Ø2 ~ Ø16

APLFE2000(Uzun Düz)



Ağız sayısı : 2  
Kesme çapı : Ø3 ~ Ø20

APLFE3000(Uzun Düz)



Ağız sayısı : 3  
Kesme çapı : Ø2 ~ Ø16

APBE2000(Küre)



Ağız sayısı : 2  
Kesme çapı : Ø1 ~ Ø12

APBE3000(Küre)



Ağız sayısı : 3  
Kesme çapı : Ø4 ~ Ø25

## ► C-Max Frezeler

CFE2000(Düz)



Ağız sayısı : 2  
Kesme çapı : Ø1 ~ Ø12

CFNE2000(Uzun Boyunlu Düz)



Ağız sayısı : 2  
Kesme çapı : Ø0.5 ~ Ø4

CBE2000(Küre)



Ağız sayısı : 2  
Kesme çapı : Ø1 ~ Ø12

CBNE2000(Uzun Boyunlu Düz)



Ağız sayısı : 2  
Kesme çapı : Ø0.5 ~ Ø4

CRE2000(Radyüs)



Ağız sayısı : 2  
Kesme çapı : Ø2 ~ Ø12

CRNE2000(Uzun Boyunlu Düz)



Ağız sayısı : 2  
Kesme çapı : Ø1 ~ Ø4

# Yekpare Parmak Frezeler

## ► D Freze

### DFE2000(Düz)



Ağız sayısı : 2  
Kesme çapı : Ø1 ~ Ø12

### DFE4000(Düz)



Ağız sayısı : 4  
Kesme çapı : Ø2 ~ Ø12

### DBE2000(Küre)



Ağız sayısı : 2  
Kesme çapı : Ø0.6 ~ Ø12

### DBE4000(Küre)



Ağız sayısı : 4  
Kesme çapı : Ø2 ~ Ø12

## ► PCD Parmak Frezeler

### PDE1000(Düz)



Ağız sayısı : 1  
Kesme çapı : Ø4.6 ~ Ø6

### PDE2000(Düz)



Ağız sayısı : 2  
Kesme çapı : Ø6.0 ~ Ø12

## ► Micro Parmak Frezeler

### MSE2000(Düz)



Ağız sayısı : 2  
Kesme çapı : Ø0.2 ~ Ø1

### MSBE2000(Küre)



Ağız sayısı : 2  
Kesme çapı : Ø0.2 ~ Ø1

# Karbür Matkaplar

## ► Kaynaklı Parmak Frezeler

ZSE200(Düz)



Ağız sayısı : 2  
Kesme çapı : Ø14 ~ Ø50

ZSE300(Düz)



Ağız sayısı : 3  
Kesme çapı : Ø14 ~ Ø50

ZSE400(Düz)



Ağız sayısı : 4  
Kesme çapı : Ø14 ~ Ø50

ZSE600(Düz)



Ağız sayısı : 6  
Kesme çapı : Ø34 ~ Ø50

ZSEA200(Düz)



Ağız sayısı : 2  
Kesme çapı : Ø15 ~ Ø50

ZSEL200(Uzun Düz)



Ağız sayısı : 2  
Kesme çapı : Ø14 ~ Ø50

ZSEL400(Uzun Düz)



Ağız sayısı : 4  
Kesme çapı : Ø16 ~ Ø40

ZSEXL200(Uzun Düz)



Ağız sayısı : 2  
Kesme çapı : Ø20 ~ Ø25

ZSBE200(Küre)



Ağız sayısı : 2  
Kesme çapı : Ø13 ~ Ø50

## ► Mach Matkap

MSD

MSD□□□-□P/M/K/N



Boy oranı(L/D) : 3, 5, 7  
Kesme çapı : Ø2.5 ~ Ø20

MSDH

MSDH□□□-□P/M/K/N

Yağ delikli tip



Boy oranı(L/D) : 3, 5, 7  
Kesme çapı : Ø2.5 ~ Ø20

# Karbür Matkaplar

## ► Mach Matkap Plus

### MSDP

MSDP□□□-□P/M/K/N



Boy oranı(L/D) : 3, 5, 7  
Kesme çapı : Ø1.0 ~ Ø2.4

### MSDP(H)

MSDPH□□□-□P/M/K/N

Yağ delikli tip



Boy oranı(L/D) : 3, 5, 7  
Kesme çapı : Ø2.5 ~ Ø20

## ► MSFD

### MSFD

MSFD□□□-□P



Boy oranı(L/D) : 2, 3  
Kesme çapı : Ø2.5 ~ Ø12.0

### MSFDH

MSFDH□□□-□P

Yağ delikli tip

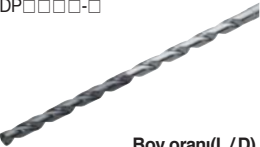


Boy oranı(L/D) : 2, 3  
Kesme çapı : Ø2.5 ~ Ø12.0

## ► Mach Uzun Matkap

### MLDP

MLDP□□□□-□



Boy oranı(L/D) : 5, 7  
Kesme çapı : Ø3 ~ Ø10

### MLD

MLD□□□□-□



Boy oranı(L/D) : 20, 25  
Kesme çapı : Ø3 ~ Ø10

## ► Mach Uzun Matkap Plus

### MLDP

MLD□□□□N-□□P/K/N



Boy oranı(L/D) : 10, 15, 20, 25  
Kesme çapı : Ø3 ~ Ø10

## ► Vulcan Matkap

### VZD(MA, MBA)

Kaynaklı tip  
Kesme çapı :  
Ø12.6 ~ Ø40.5



Özel ölçüde sipariş verilebilir.

### VZD(LA, LBA)

Kaynaklı tip  
Kesme çapı :  
Ø12.6 ~ Ø40.5



Özel ölçüde sipariş verilebilir.

## ► Karbür Matkaplar

### SSDP

Komple karbür  
Kesme çapı :  
Ø1 ~ Ø15



Genel kullanım için

# Takma Uçlu Matkaplar

## ► Takma Uçlu Matkap Serisi

### KING DRILL(2D/3D/4D/5D)

Ø12 - Ø60.5mm



Uç	İç	Dış
SP□T040204-□□	XO□T040204-□□	
SP□T050204-□□	XO□T050204-□□	
SP□T060205-□□	XO□T060204-□□	
SP□T07T208-□□	XO□T07T205-□□	
SP□T090308-□□	XO□T090305-□□	
SP□T11T308-□□	XO□T11T306-□□	
SP□T130410-□□	XO□T130406-□□	
SP□T15M510-□□	XO□T15M508-□□	
SP□T180510-□□	XO□T180508-□□	

### KING DRILL-HP(2D/3D/4D)

Ø13 - Ø29mm



Uç	İç	Dış
SP□T040204-□□	XO□T040204-□□	
SP□T050204-□□	XO□T050204-□□	
SP□T060205-□□	XO□T060204-□□	
SP□T07T208-□□	XO□T07T205-□□	
SP□T090308-□□	XO□T090305-□□	

### KING DRILL(K2D/K3D/K4D)

KING DRILL- Kartuşlu Tip  
Ø61 - Ø100mm



Uç	İç	Dış
KDC6165C	KDC6165P	
KDC6570C	KDC6570P	
KDC7075C	KDC7075P	
KDC7580C	KDC7580P	
KDC8085C	KDC8085P	
KDC8590C	KDC8590P	
KDC9095C	KDC9095P	
KDC95100C	KDC95100P	

### KING DRILL Uçlar

	(Genel)	(Yumuşak Çelik, Paslanmaz)	(Alüminyum)
İç			
	SPMT-PD	SPMT-LD	SPET-ND
Dış			
	XOMT-PD	XOMT-LD	XOET-ND

### TPDC(3D/5D/8D)

Ø12 - Ø19.99mm



Uç		
TPDC1200CP	TPDC1500CP	TPDC1810CP
TPDC1220CP	TPDC1550CP	TPDC1850CP
TPDC1250CP	TPDC1600CP	TPDC1860CP
TPDC1260CP	TPDC1630CP	TPDC1870CP
TPDC1300CP	TPDC1650CP	TPDC1900CP
TPDC1350CP	TPDC1670CP	TPDC1920CP
TPDC1400CP	TPDC1700CP	TPDC1950CP
TPDC1420CP	TPDC1750CP	TPDC1970CP
TPDC1430CP	TPDC1770CP	
TPDC1450CP	TPDC1800CP	

### TPDB(3D/5D/8D)

Ø10 - Ø32.9mm



Uç  
TPD100B-TPD329B

### WPDC(5D/6.5D/8D)

Standart tip  
Ø25 - Ø40mm



Uç  
WC□T030204-C21  
WC□T040204-C21  
WC□T050308-C21

### WPDC(5D/6.5D/8D)

Tek uçlu kartuşlu tip  
Ø41 - Ø59mm



Uç  
WC□T06T308-C21  
WC□T080408-C21

### WPDC(5D/6.5D/8D)

Çift uçlu kartuşlu tip  
Ø60 - Ø80mm



WSP  
WC□T050308-C21  
WC□T06T308-C21



# Takma Uçlu Parmak Frezeler

## ► Takma Uçlu Parmak Frezeler

### BFE

Ø16 - Ø32mm



Uç

RC16  
RC20  
RC25  
RC30  
RC321

### BRE

Ø20 - Ø50mm



Çelik Gövde

SDMT090308-MM  
SPMT060304  
SPMT120408-MM  
SPMT120508-MMN  
ZDMT080310R-MM  
ZDMT110312.5R-MM  
ZDMT130416R-MM  
ZPMT160520R-MM  
ZPMT160525R-MM  
ZPMT160531.5R-MM  
ZPMT160525R-MR

### GBE

Tek Kenarlı  
Ø16 - Ø50mm



İç : M

diş : S  
ZPET080M(S)-MM  
ZPET090M(S)-MM  
ZPET100M(S)-MM  
ZPET110M(S)-MM  
ZPET125M(S)-MM  
ZPET130M(S)-MM  
ZPET140M(S)-MM  
ZPET150M(S)-MM  
ZPET160M(S)-MM  
ZPET200M(S)-MM  
ZPET250M(S)-MM

### GBE-M

Çok Kenarlı  
Ø20 - Ø50mm



İç : M  
diş : S

ZPET100M(S)-MM  
ZPET110M(S)-MM  
ZPET125M(S)-MM  
ZPET130M(S)-MM  
ZPET140M(S)-MM  
ZPET150M(S)-MM  
ZPET160M(S)-MM  
ZPET200M(S)-MM  
ZPET250M(S)-MM

Dış Ana Uçlar :

SPMT060304  
SDMT090308-MM  
SPMT120408-MM

### GBEM

Ø16 - Ø32mm



İç : M  
diş : S

ZPET080M(S)-MM  
ZPET090M(S)-MM  
ZPET100M(S)-MM  
ZPET110M(S)-MM  
ZPET125M(S)-MM  
ZPET130M(S)-MM  
ZPET140M(S)-MM  
ZPET150M(S)-MM  
ZPET160M(S)-MM  
ZPET200M(S)-MM  
ZPET250M(S)-MM

\* Uygun adaptörler için 88. sayfaya bakınız.

## ► Laser Mill Serisi

### LBE(08/10/12/16/20/25/30/32)

Karbür Gövde - Küre, Köşe R  
(Silindirik tip)



LBE080080S-S08C	LBE200120S-S20C
LBE080100S-S08C	LBE200170S-S20C
LBE080020S-S08C-130	LBE200035S-S20C-190
LBE080020S-S08C-150	LBE200035S-S20C-240
LBE100080S-S10C	LBE250140S-S25C
LBE100120S-S10C	LBE250170S-S25C
LBE100023S-S10C-130	LBE250040S-S25C-220
LBE100023S-S10C-170	LBE250040S-S25C-250
LBE120100S-S12C	LBE300140S-S32C
LBE120150S-S12C	LBE300170S-S32C
LBE120025S-S12C-150	LBE300050S-S32C-230
LBE120025S-S12C-200	LBE300050S-S32C-260
LBE160100S-S16C	LBE320140S-S32C
LBE160150S-S16C	LBE320170S-S32C
LBE160030S-S16C-160	LBE320050S-S32C-230
LBE160030S-S16C-210	LBE320050S-S32C-260

### LBE(08/10/12/16/20/25/30/32)

Çelik Gövde - Küre, Köşe Rad.  
(Konik tip)



LBE080035T-S12	LBE160100T-S20
LBE080055T-S12	LBE200075T-S20
LBE080075T-S12	LBE200115T-S25
LBE100035T-S12	LBE250090T-S25
LBE100055T-S12	LBE250135T-S32
LBE100075T-S12	LBE300105T-S32
LBE120055T-S12	LBE300160T-S32
LBE120085T-S16	LBE320105T-S32
LBE160065T-S16	LBE320160T-S32

### LBE(12/16/20/25/30/32)

Çelik Gövde - Küre, Köşe Rad.  
(Silindirik tip)



LBE120035S-S12
LBE160035S-S16
LBE200040S-S20
LBE250045S-S25
LBE300055S-S32
LBE320055S-S32

### LRE(10/12/16/20/25/30/32)

Karbür Gövde - Köşe Radyüslü  
(Silindirik tip)



LRE100080S-S10C	LRE200035S-S20C-190
LRE100120S-S10C	LRE200035S-S20C-240
LRE100023S-S10C-130	LRE250140S-S25C
LRE100023S-S10C-170	LRE250170S-S25C
LRE120100S-S12C	LRE250040S-S25C-220
LRE120150S-S12C	LRE250040S-S25C-250
LRE120025S-S12C-150	LRE300140S-S32C
LRE120025S-S12C-200	LRE300170S-S32C
LRE160100S-S16C	LRE300050S-S32C-230
LRE160150S-S16C	LRE300050S-S32C-260
LRE160030S-S16C-160	LRE320140S-S32C
LRE160030S-S16C-210	LRE320170S-S32C
LRE200120S-S20C	LRE320050S-S32C-230
LRE200170S-S20C	LRE320050S-S32C-260

# Takma Uçlu Parmak Frezeler

## ► Laser Mill Serisi

### LRE(10/12)

Çelik Gövde - Küre, Köşe Rad.  
(Konik tip)

LRE100025T-S12  
LRE100050T-S12  
LRE120060T-S16



### LRE(12/16/25/30/32)

Çelik Gövde - Köşe Radyüslü  
(Silindirik tip)

LRE120030S-S12  
LRE160050S-S16  
LRE160060S-S16  
LRE200060S-S20  
LRE200080S-S20  
LRE250070S-S25  
LRE250100S-S25  
LRE300070S-S32  
LRE300100S-S32  
LRE320080S-S32  
LRE320100S-S32



### LBE(MHD)

LBE100-MHD-M06  
LBE120-MHD-M06  
LBE160-MHD-M08  
LBE200-MHD-M10  
LBE250-MHD-M12  
LBE300-MHD-M16  
LBE320-MHD-M16



• Uygun adaptörler için 88. sayfaya bakınız

## ► Modüler Kafa için Şaft Adaptörü

### MAT(Çelik Gövde)

(HFMM, FMRM, LBE, PAM, PAXM, AMM, RM4PM, RM4ZM, HRMM, HRMDM, GBEM)



MAT-M06-020-S10S  
MAT-M06-040-S12T  
MAT-M06-065-S16T  
MAT-M06-080-S16T  
MAT-M08-020-S16S  
MAT-M08-040-S16T  
MAT-M08-065-S16T  
MAT-M08-080-S20T  
MAT-M08-110-S25T  
MAT-M10-030-S20S  
MAT-M10-050-S20T  
MAT-M10-070-S20T  
MAT-M10-090-S25T  
MAT-M10-110-S25T  
MAT-M10-130-S32T  
MAT-M10-175-S40T  
MAT-M12-030-S25S  
MAT-M12-050-S25T  
MAT-M12-070-S25T  
MAT-M12-090-S25T  
MAT-M12-110-S32T  
MAT-M12-175-S40T  
MAT-M16-035-S32S  
MAT-M16-055-S32T  
MAT-M16-080-S32T  
MAT-M16-120-S32T  
MAT-M16-175-S40T

### MAT-C(Karbür Gövde)

(HFMM, FMRM, LBE, PAM, PAXM, AMM, RM4PM, RM4ZM, HRMM, HRMDM, GBEM)



MAT-M06-030-S10S-C-80  
MAT-M06-050-S10S-C-100  
MAT-M06-080-S10S-C-130  
MAT-M06-030-S10S-C-80  
MAT-M06-050-S10S-C-100  
MAT-M06-080-S10S-C-130  
MAT-M08-010-S16S-C-150  
MAT-M08-010-S16S-C-180  
MAT-M08-010-S16S-C-250  
MAT-M10-010-S20S-C-170  
MAT-M10-010-S20S-C-200  
MAT-M10-010-S20S-C-300  
MAT-M12-015-S25S-C-170  
MAT-M12-015-S25S-C-200  
MAT-M12-015-S25S-C-300  
MAT-M16-020-S32S-C-180  
MAT-M16-020-S32S-C-210  
MAT-M16-020-S32S-C-300  
MAT-M08-080-S16S-C  
MAT-M08-110-S16S-C  
MAT-M08-150-S16S-C  
MAT-M10-090-S20S-C  
MAT-M10-110-S20S-C  
MAT-M10-175-S20S-C  
MAT-M12-090-S25S-C  
MAT-M12-110-S25S-C  
MAT-M12-175-S25S-C  
MAT-M16-090-S32S-C  
MAT-M16-120-S32S-C  
MAT-M16-175-S32S-C

# Talaş Kırıcıların Karşılaştırılması

## ► Comparison of Chip Breakers

Uygulama		KORLOY	KYOCERA	TAEGUTEC	SUMITOMO	SANDVIK	KENAMETAL	ISCAR	WLATER	mitsubishi	SECO	
Negatif	P	Ultra-Finiş	-	DP(G)	-	-	-	FF(G)	-	-	PK(G)	-
			VL	GP, PP	FA	FA, FL	QF	UF	SF	NF3	FH, FS	FF1
		Finiş	VF	HQ	FG	LU, SU	PF	FN	NF	NF4	SH, C	FF2
			VB	-	SF	SE	61	-	F3M	PF5	LP	-
		Orta/Finiş	VQ, VC	CQ	MC	SX	-	LF, CT	TF	NS6	SA, C()	MF2, MF3
			LP	PQ	FC	-	-	-	-	MP3	MV	MF5
	Orta	VM	HK, CS, GS HS, PS	MP, MT	GU, UX	QM, SM	MP, MN	GN	NM4, NP5	MA, MH	M3, M5	
		MP	-	PC	GE	PM	-	M3M	NM5, NM6	MP	-	
	Kaba	B25	All round	All round	All round	-	-	-	-	All round	M5	
		GR	PT, GT, HT, PH	RT	MU, ME, MX	PR	RN	NR, R3M	NM9, PP5	GH, RP	MR5, MR6, MR7	
Ağır koşulda işleme	GH	PX	RH, RX	HG, MP	PR	RH	NM	NR4, NRF	HZ	R4,R5		
	VH	HX	HZ	HP	QR	RM	HR	NR8	HV, HX, HAX	R6, R7, R8		
Negatif	Düşük karbonlu Çelik	Yumuşak Çelik	VL	XF, XP, XP-T	SF	FL	LC	-	-	FY	-	
			-	XQ, XS	-	-	-	-	-	-	SY	-
	Yüksek ilerleme	Yüksek ilerlemeli kesim	VW	WP	WS	LUW, SEW	WF, WL	FW	WF	NF	SW	FF2, MF2
			LW	WQ	WT	GUW	WM, WMX	MW	WG	NM	MW	MF5, M3
	-	-	-	-	WR	RW	-	-	-	-	R4, R7	
	Uygulama	Şaft(uzun çubuk)	SH	CJ, ST	FS, VF, FX	HM	K	-	-	-	ES	UX
			KNUX-	KNMX-	KNUX-	-	KNUX-71	-	-	-	KNMX-19	-
	M	Paslanmaz Çelik	VP2	MQ, GU	EA	SU	MF	FP	F3P	NF4	LM	MF1
			MM	HU, TK, MU	MP, EM	EX, GU	MM	MP	M3M	NM4	MA, GM, MM	MF3
			RM	MS	ET	MU, HM	MR	RP	R3M	NR4	RM	M5
K	Döküm	MP	C	MT	UZ	KF	FN	TF	NM, MK5	LK	M4	
		GR, VR	ZS	RT KT	UX, GZ	KM	RP	GN	NM5, RK5	MA, MK	M5	
-MA	-MA, GC	-MA	-MA	KR	UN	-MA	-MA, MK5	GH, -MA, RK	MR7			
S	HRSA	VP1	MQ	EA	EF	-	FS, LF	PF	NF4	FJ(G), LS	M1	
		VP2	TK	ML	UP, EG	23.SR	MS	PP	-	MJ	MF1	
		VP3	MU	EM	EX	Xcel-SM	MP	VL	NM4	MS, MS	MF4	
		VP4	MS	ET	MU	-	RP	-	NR4	GJ, RS	MR4	
N	Aluminium	HA	AH	ML	UP(GX), AG	23	MS	PP	-	MJ	MF1	
Pozitif	Uygulama	Finiş	VL	XP	FA	LU	PF	UF	-	PF	FV	FF1
			VF	GP	-	FP, FC, SI	UF	-	PF	PF, PF2	SV	F1
		Orta	HMP	XQ	FG	-	PM	LF	14	-	-	MF2
			MP	HQ, CK	PC	SU, SC	UM	-	SM	PF4, PF5	MV	F2
	Kaba	C25		MT	MU	PR, UR	MF	-	PM5		M5	
		Paslanmaz Çelik	VP1	CF, GF, GQ	FG	FC	KF	LF	PF	PM	FJ, LM	F1
	VL		MQ	SA	-	KM	MF	SM	PM5	AM, MM	MF2	
	Döküm	MP	GK	PC	MU	UM	LF	17	-		M3	
		C25	HQ	MT	C/B	KR	MF, UF	19	C/B	C/B	M5	
	Aluminium	AK, AR	AH	FL	AW, AG	AL	HP	AS, AF	PM2	F	AL	
Yüksek hassasiyette mil tornalama (tolerans sınırı G&E)	KF, KM	FSF, USF	GF, FF	FY, FX, FZ	UM	-GH	LF, RF, XL	-	F, SR, SS, SM	UX		

Kalite/Talaş Kırıcılar

Uçlar

Tomalama Takımları

Frezeleme Takımları

Parmak Frezeler/Matkaplar

Kalite ve Talaş Kırıcıların Karşılaştırılması

# Tornalama Kalitelerinin Karşılaştırılması

## ► WC

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Tornalama	P	ST50E ST10P	ST10 ST20		S1P SM30			TX10S TX20	STi10T STi20T	SRN5 WS20B	S1F		P10 P20		
		ST20E MA2 A30 A30 ST30N ST40	ST30A	PW30	IC50M IC54	S30T S6	TTX TTM TTR	K45 KM K420	TX30	UTi20T	EX35 EX40 EX45	VC6 VC5 VC56		P30 P40	
	M	U10 U2 A40	U10 U20 ST30A A40		H13A H10F	AT10 AT15 TTR	K2885 K2S	TU10 TU20 TU40	UTi20T	WAM10B EX35	VC27 VC28		M10 M20 M40		
K	H02 H01 H05 H10 G10E	H1		IC4 IC20 IC28	H1P H10F	THM THR	K68 K8735	TH03 TH10 KS20	HTi10T HTi20T	WH05 W10 WH20	VC3 VC2 VC1		K10 K20 K20M K30		

## ► CVD Kaplamalı

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET	
Tornalama	P	NC3010	AC805P	CA5505 CA510	GC4305 GC4205	TP0500 TP0501 TP1500	KCP05 KCP05B	T9105	UE6105				TT8105			
		NC3215*	AC810P AC700G AC900G	CA5515 VP5115 CA5515	IC8150	GC4315 GC4215	TP1501 TGP25 T25M TP2500 TP2501 TGP35 T350M	KCP10 KCP10B	T9115	UE6110 MY5015	HG8010	VP5515	WPP10S WKP13S	TT8110 LC015P TT8115		
		NC3220 NC3225*	AC820P AC2000	CA5525 VP5125 CA5525	IC8250	GC4325 GC4225		KCP25 KCP25B	T9125	MC6025 UE6020	HG8025	VP5525	WPP20S WKP23S	TT8120 LC025P TT8125	CP5	JC110V JC215V
	NC3030 NC500H NC5330	AC830P	CR9025 CA5535 CA530	IC8350	GC4235	TP3500 TGP45	KCP30 KCP30B	T9135	UE6035	GM8035	VP5535	WPP30S WKP33S	TT5100 TT8135		JC325V JC450	
M	NC9020 NC9025	AC610M AC630M AC6030M	CA6515 CA6525	IC6015	GC2015 GC2025	TM2000	KCM15 KCM15M KCM25 KCM25B KCM35 KCM35B	T6120 T6130	MC7015 MC7025 US7020 US735	GM25 GX30	VP8515 VP8525	WAM10 WMP20S WAM20 WAM30	TT9215 TT9225 TT9235			
K	NC6205 NC6210 NC6215*	AC405K AC415K AC420K	CA4505 CA4010 CA4515 CA4115 CA4120	IC5005 IC5015	GC3205 GC3210 GC3215 GC3225	TK1001 TK2001 TK1500	KCK05 KCK05B KCK15 KCK15B KCK20 KCK20B	T5105 T5115 T5125	MC5005 UC5105 MC5015 UC5115	HG3505 HG3515	VP1505 VP1510 VP1515	WKK10S WKK20S WAK30	TT7005 TT7310 TT7015 TT6300	CP2 CP5	JC105V JC110V JC215V	

## ► PVD Kaplamalı

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Tornalama	P	PC8110 PC230	PR1005 PR915 PR1115 PR930 PR1025 PR630 PR660	IC507 IC808 IC830 IC908 IC3028 IC330		CP200 CP250 CP500	KU10T KU25T	AH710 GH730 AH330 AH740 AH120 GH330			VC907 VC927 VC905	WTA43 WTA41	TT5030		JC5003 JC5015
		PC5300 PC8115* PC3545			GC1025 GC4125				VP15TF VP20MF	IP2000 IP3000					
	M	PC8110 PC8115* PC5300*	AC510U EH510Z AC520U EH520Z AC530U	PR915 PR930 IC3028 IC830	IC808 IC907 GC1005 GC1105 GC1020 GC1025 GC4125	CP200 CP250 CP500	KC5010 KC5510 KC5025 KC5525	AH330 GH330 AH120 GH730 AH140 AH630	MP9005 VP10RT VP15TF VP20MF MP7035	IP50S IP100S	VC929 VC927 VC902 VC901 VC905	WSM10S WSM20S WSM30S WSM40S	TT5030	ZM3 QM3 VM1 TAS	JC5003 JC5015
	K	PC5300	EH510Z EH520Z	IC5100 IC810 IC220 IC908 IC228		CP200 CP250 CP500		AH110 GH110 AH120		CY110H	VC929 VC903 VC927 VC902 VC901 VC907		TT5030		
S	PC8105 PC8110 PC8115* PC5300 PC5400*	AC510U AC520U	PR915 PR660 PR1325	IC808 IC907 IC3028 IC328	GC1105 GC1025 GC2035	TS2000 CP500 TS2500	KC5010 KC5025	AH110 AH120	VP05RT VP10RT VP15TF MP7035		WSM10 WSM20 WSM30	TT5030			

## ► Sermet

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENNAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Tornalama	P	CC1500* CN1500*	T110A T2000Z* T1500A	PV30* TN30 PV7020* TN60 TN620 TN90 PV90*	IC20N IC520N IC30N IC530N	CT5015 CT525 GC1525*	CM C15M HT2 KT125 HT5 KT175 KT195M	NS520 GT530* NS530 NS9530 GT9530* NS540 NS730	NX2525 NX3035 UP35N* AP25N* NX335 MP3025*	CH350 CZ25* CH530 CH550 CH570	VC83	WTA43* WTA41*	PV3010* CT3000	T3N T15 N20 C30 N40	LN10 CX50 CX75 CX90 CX99
		M													
	K	CN1500* CN2500*	T110A							NX2525				CT3000	T15

\* : Yeni kalite \* : PVD kaplamalı sermet

# Frezeleme Kalitelerinin Karşılaştırılması

## ► CVD Kaplamalı

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Frezeleme	P	ACP100		IC5400	GC4210	MP1500	KCPM20	T3130	FH7020 F7030		SM245	WKP25S WKP35S	TT8515		
					GC4220	MP2500							TT7800		
					GC4230	MM4500							KC927M		
Frezeleme	M	ACP400			GC2040	MP2500		T3130	F7030						
						MM4500									
Frezeleme	K	ACK200		IC5100	GC3330	MK1500 MK2000	KC907M KCK15 KC914M	T1115	MC5020			WAK15 WKK25 WKP25S	TT7515 TT6800		
					GC3040	MK3000	KC917M KC924M	T1015				WKP35S			

## ► PVD Kaplamalı

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET													
Frezeleme	P	ACZ310	PR730	IC903 IC908 IC950	P20A	MP3000	KC522M KUC20M	GH330	MP6120	ATH80D PCA08M ACS05E PCA12M PC20M JX1005 TB6005 JX1020 CY9020	VC935	WKP25	TT7070 TT7080 TT7030	QM3 ZM3	JC5003													
					GC1010					AP20M GP20M					TB6045	JC5015												
					GC1025 GC1030					VP15TF					CY250 PTH30E	JC5030 JC5040												
					GC1030					MP6130					JP4160	TT8020												
					PR660					IC928					F40M T60M	AH3135	VP30RT	JM4160 PTH40H										
					PR730					IC903						AH120	JX1020 CY9020 JX1015 TB6020 CY250		TT9030	QM3 ZM3	JC5003							
					ACM100 ACP200					PR1025 PR630					IC900 IC250	GC1125 GC1025 GC2030	F25M	KC522M KC725M KC735M	MP7130	JX1045 TB6045	VC928 VC902 VC901	WQM35 WSM35S WSP45 WSM45S	TT9080	TT8020	JC5015	JC5030 JC5040		
					PC5300					ACP300 ACZ350					PR660	IC328		F40M	KC722	AH3135	MP7140	JX1060 TB6060						
					PC5400* PC3545										PR660													
					PC3600 PC3500																							
Frezeleme	K	PC5300	PR510 PR905	DT7150 IC900 IC910 IC950 IC350		MK2050	KC510M KC915M	AH120	VP10MF VP15TF		VC903 VC928		TT6290		JC5003													
															VC902 VC901	TT6030 TT6060	JC5015											
Frezeleme	S	AC520U	PR620 PR660 PR1535	IC328 IC408	GC1025 GC1040 S40T	F40M MS2050	KC510M KCU30M		VP15TF VP30RT MP9130	ACS05E	WSM35S WSM45S	TT9030 TT8020 TT8080																

## ► Sermet

ISO	KORLOY	SUMITOMO	KYOCERA	ISCAR	SANDVIK	SECO	KENAMETAL	TOSHIBA	MITSUBISHI	HITACHI	VALENITE	WALTER	TAEGUTEC	NTK	DIJET
Frezeleme	P	T250A	TN100M	IC30N			KT195M	NS540 NS740	NX2525 NX4545	CH550 CH570			CT3000 CT7000	C50	
			TC60M												
Frezeleme	M	T250A			CT530										
Frezeleme	K								NX2525						

★ : Yeni kalite ★ : PVD kaplamalı sermet

Grades / Chip Breakers

Inserts

Turning Tools

Milling Tools

Endmills / Drills

The Comparison of Chip Breakers, Grades

***www.korloy.com***



**KORLOY**

Holystar B/D, 1350, Nambusunhwan-ro, Geumcheon-gu, Seoul, 08536, Korea  
Tel : +82-2-522-3181 Fax : +82-2-522-3184, +82-2-3474-4744 Web : [www.korloy.com](http://www.korloy.com) E-mail : [export@korloy.com](mailto:export@korloy.com)



**KORLOY AMERICA**

620 Maple Avenue, Torrance, CA 90503, USA  
Tel : +1-310-782-3800 Toll Free : +1-888-711-0001 Fax : +1-310-782-3885  
[www.korloyamerica.com](http://www.korloyamerica.com) E-mail : [sales@korloy.us](mailto:sales@korloy.us)



**KORLOY EUROPE**

Gablonzer Str. 25-27, 61440 Oberursel, Germany  
Tel : +49-6171-277-83-0 Fax : +49-6171-277-83-59  
[www.korloyeurope.com](http://www.korloyeurope.com) E-mail : [sales@korloyeurope.com](mailto:sales@korloyeurope.com)



**KORLOY INDIA**

Plot NO.415, Sector 8, IMT Manesar, Gurgaon 122051, Haryana, INDIA  
Tel : +91-124-4391790 Fax : +91-124-4050032  
[www.korloyindia.com](http://www.korloyindia.com) E-mail : [sales.kip@korloy.com](mailto:sales.kip@korloy.com)



**KORLOY BRASIL**

Av. Aruana 280, conj.12, WLC, Alphaville, Barueri,  
CEP06460-010, SP, Brasil  
Tel : +55-11-4193-3810 E-mail : [vendas@korloy.com](mailto:vendas@korloy.com)