

DORMER PRAMET

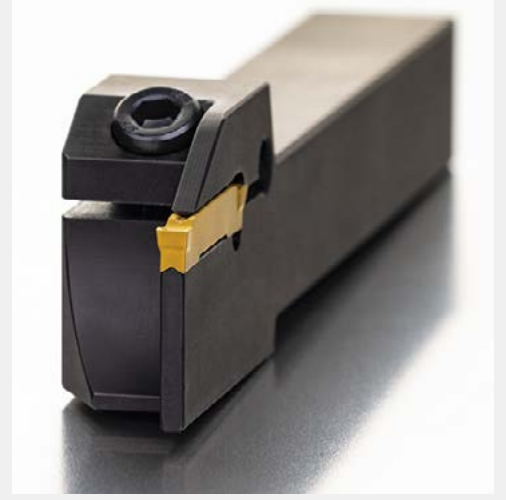
YENI ÜRÜNLER

2020



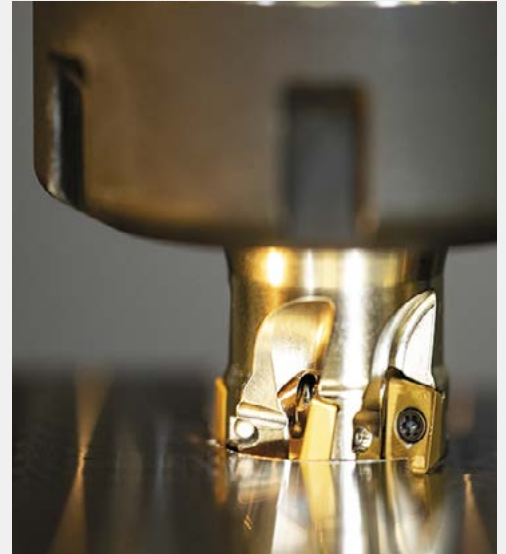
2 ■ TORNALAMA

- 4 • GL
Çelik ve paslanmaz çelik malzemelerde güvenilir derin kesme ve kanal açma
- 15 • X61 / P61
Segmanlar ve o-ring kanallarında verimli üretim
- 23 • PSC
Yüksek hassasiyetli bağlantı olanağı sunan hızlı değiştirmeli tornalama takımları
- 52 • Diş açma uçları
- 55 • Yeni ürünler listesi



56 ■ FREZELEME

- 58 • SSN11 / SNGX11
1,7 mm derinliğe kadar yüksek ilerlemeli sekiz kenarlı frezeleme
- 64 • ADMX 07
Titreşime duyarlı işleme için yeni F geometrisi



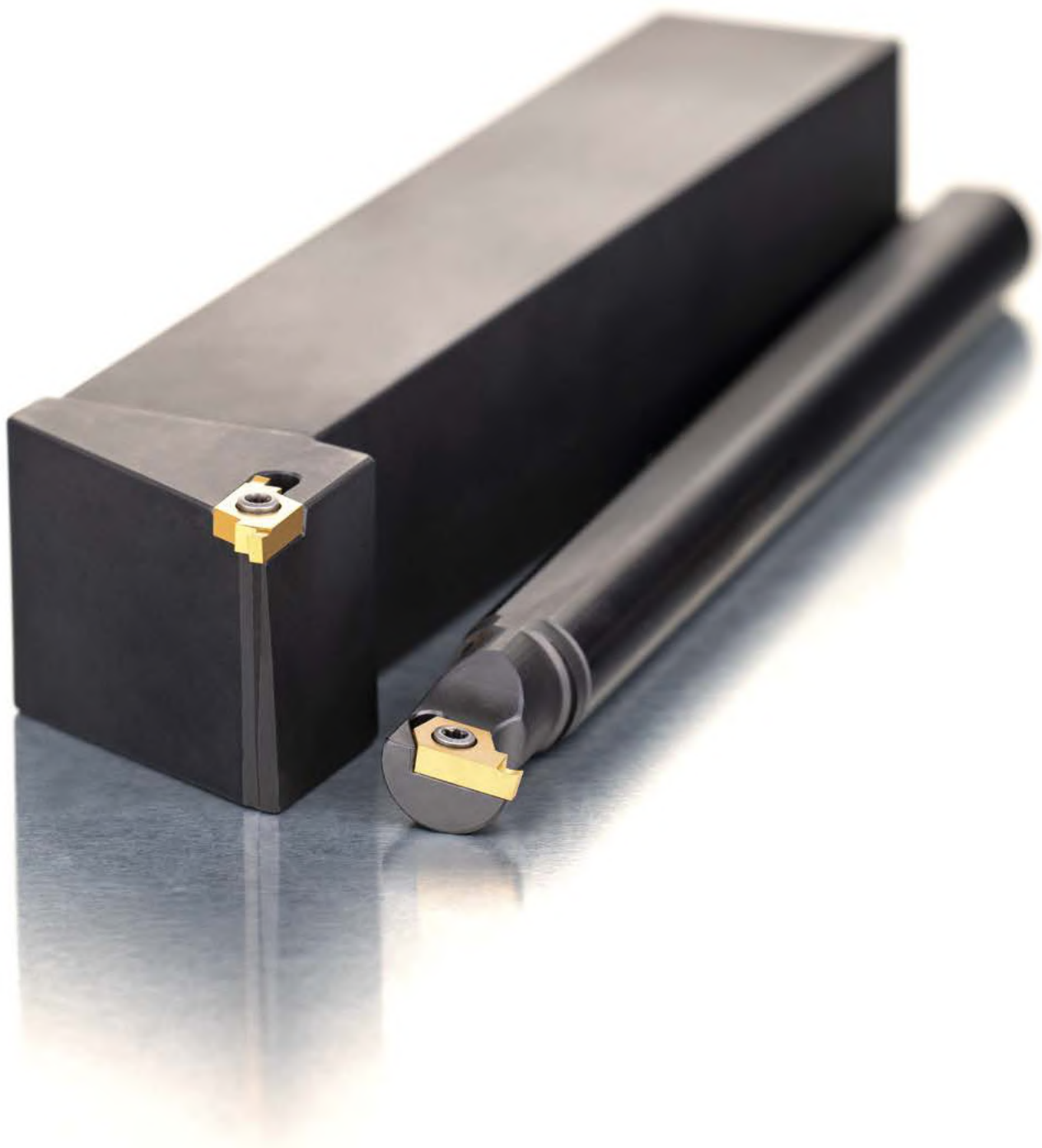
Bu broşürde yalnızca yeni ürünler yer almaktadır. Bu simge mevcut ürün yelpazesinin nerede olduğunu belirlemek ve Pramet 2019 kataloğundaki ilgili sayfa numarasını belirtmek için kullanılır.

■ Temel uygulama

▣ Alternatif uygulama

TORNALAMA





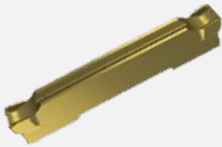
ÇELİK VE PASLANMAZ ÇELİK MALZEMELERDE GÜVENİLİR DERİN KESME VE KANAL AÇMA

Kesme ve kanal açma sistemleri, genel ve küçük parça işleme için farklı takım çeşitleri ile çeşitli genişliklerde yeni çift kenarlı kesici uçlar ile genişletildi. Bu, uygun uç ve takımı kolayca seçmenizi sağlayacak yeni bir işaretleme sistemi ile desteklendi.

ÖZELLİKLER VE AVANTAJLAR

- 25mm uzunluklu çift kenarlı kesici uçlar
- 2mm ile 6 mm arasında daha büyük genişlik aralığı
- Çok yönlü G8330 PVD kalite
- PR geometrisi – çubuk kesme ve darbeli kesimlerde kanal açmak için ilk tercih
- PM geometrisi – östenitik paslanmaz çelikler ve yumuşak çelikler için ilk tercih
- Yeni gelişmiş tasarıma sahip, 16x16mm ile 25x25mm arası dış çap takımlar
- Özel sıkma anahtarlı, 26mm ve 32mm boyutlarında üniversal kesme lamaları
- **Derin kesme ve kanal açma** – kesici ucun uzunluğu sayesinde %60'a kadar daha derin kanal açma kapasitesi
- **İyileştirilmiş çalışma güvenilirliği** çeliklerde ve paslanmaz çeliklerde yeni kalite, kesici uç ve takım tasarımı sayesinde sağlanır
- **Yüksek kaliteli yüzey finiş işleme** daha gelişmiş titreşim direnci sayesinde
- **Kurulum süresinden tasarruf** – küçük parça işlerken, 30 derece açılı bağlama vidasına erişilebilir ve kesici uç, tek elle kolayca değiştirilebilir
- **Uzun takım ömrü** daha yüksek kenar yığılması direnci [PM] / daha yüksek kesme kenarı mukavemeti [PR] sayesinde

KESİCİ UÇ GEOMETRİLERİ

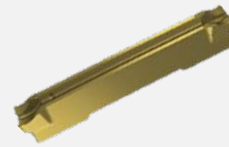


NEW

PR

PR GEOMETRİSİ

- Çubuk kesme ve darbeli kesimler için ilk tercih
- Farklı işleme şartlarında üniversal tercih



NEW

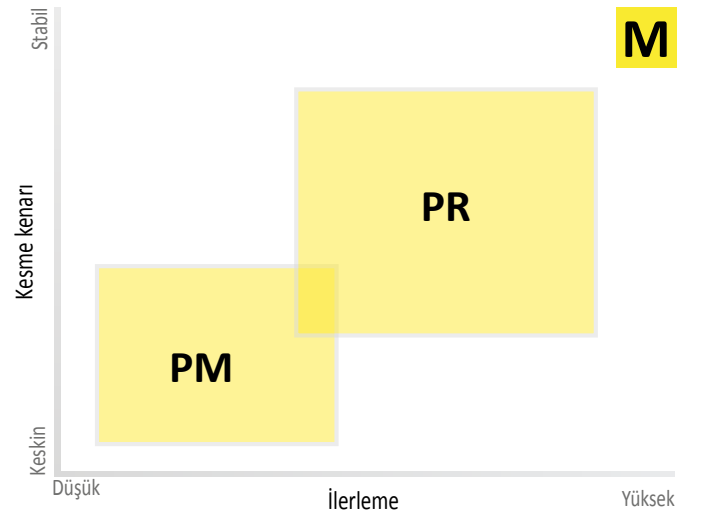
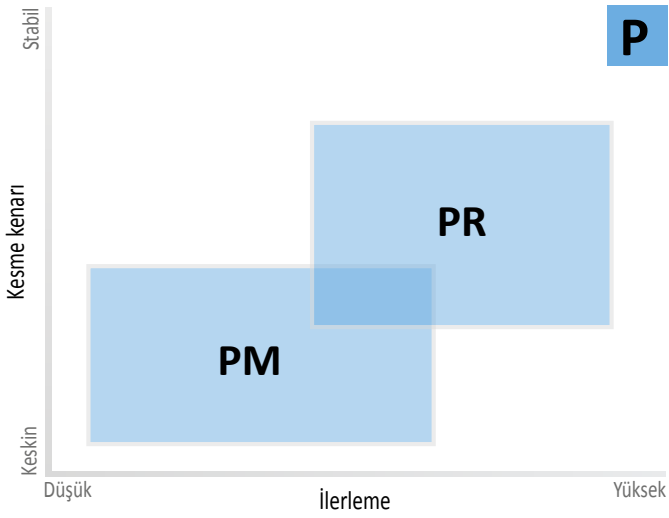
PM

PM GEOMETRİSİ

- Östenitik paslanmaz çelikler ve boru dilimleme için ilk tercih



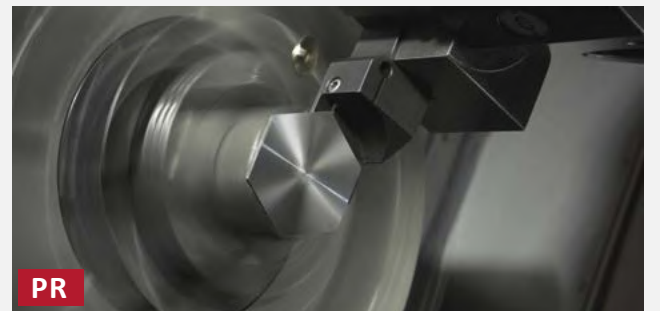
UYGULAMA ALANI



İŞLEME ÖRNEĞİ

İşlem: Kesme
Malzeme: C45
Malzeme grubu: P
Kesici uç: GL3-D300M02-PR
Tutucu: GL3-S2525MFL-20-80
Kesme sıvısı: Evet

Kesici uç geometrisi			PR	PM
İş parçası:			Çubuk	Boru
Kesme hızı	v_c	m/dak	140	140
İlerleme	f	mm/dev	0,14	0,1
Kesme derinliği	a_p	mm	20	10



KOD İŞARETLERİ – KESME VE KANAL AÇMA KESİCİ UÇLARI

1	2	3	4	5	6	7	8
GL	3	D	300	G	02	L06	PM



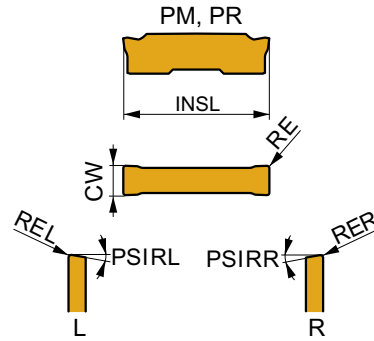
1	2	3	4																		
Takım grubu	Yuva boyutu	Kenar sayısı	Kesme genişliği - CW																		
GL	1, 2, 3, 4, 5, 6	<table border="1"> <tr> <td>S</td> <td>Tek kenarlı</td> </tr> <tr> <td>D</td> <td>İki kenarlı</td> </tr> </table>	S	Tek kenarlı	D	İki kenarlı	<table border="1"> <thead> <tr> <th></th> <th>CW</th> </tr> </thead> <tbody> <tr> <td>200</td> <td>2,00</td> </tr> <tr> <td>250</td> <td>2,50</td> </tr> <tr> <td>300</td> <td>3,00</td> </tr> <tr> <td>400</td> <td>4,00</td> </tr> <tr> <td>500</td> <td>5,00</td> </tr> <tr> <td>600</td> <td>6,00</td> </tr> </tbody> </table>		CW	200	2,00	250	2,50	300	3,00	400	4,00	500	5,00	600	6,00
	S		Tek kenarlı																		
D	İki kenarlı																				
	CW																				
200	2,00																				
250	2,50																				
300	3,00																				
400	4,00																				
500	5,00																				
600	6,00																				

5	6	7	8																		
Kenar tasarımı	Köşe radyusu	Kesme kenarı açısı	Talaş kırıcı																		
<table border="1"> <tr> <td>G</td> <td>Taşlanmış</td> </tr> <tr> <td>M</td> <td>Direkt preslenmiş</td> </tr> </table>	G	Taşlanmış	M	Direkt preslenmiş	<table border="1"> <thead> <tr> <th></th> <th>RE [mm]</th> </tr> </thead> <tbody> <tr> <td>02</td> <td>0,2</td> </tr> <tr> <td>03</td> <td>0,3</td> </tr> <tr> <td>04</td> <td>0,4</td> </tr> </tbody> </table>		RE [mm]	02	0,2	03	0,3	04	0,4	<table border="1"> <thead> <tr> <th></th> <th>[°]</th> </tr> </thead> <tbody> <tr> <td>06</td> <td>6</td> </tr> <tr> <td>12</td> <td>12</td> </tr> </tbody> </table>		[°]	06	6	12	12	PM PR
G	Taşlanmış																				
M	Direkt preslenmiş																				
	RE [mm]																				
02	0,2																				
03	0,3																				
04	0,4																				
	[°]																				
06	6																				
12	12																				

GL. D



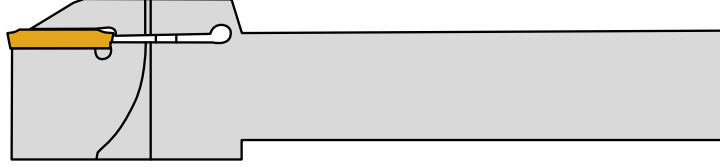
	CW	CWTOLL	CWTOLU	INSL
200	2,00	0,05	0,05	25
250	2,50	0,05	0,05	25
300	3,00	0,05	0,05	25
400	4,00	0,05	0,05	25
500	5,00	0,05	0,05	25
600	6,00	0,05	0,05	25



i		ISO		P	M	K	N	S	H	?		RE	FN	FX	PSIRL	PSIRR
		GL2-D200M02-PM	G8330	■	■	▣				●	+++	02	0,05	0,12	-	-
		GL2-D200M02-PM	T7325	▣	■					●	+++	02	0,05	0,12	-	-
		GL3-D250G02-PM	G8330	■	■	▣				●	+++	02	0,05	0,15	-	-
		GL3-D300M02-PM	G8330	■	■	▣				●	+++	02	0,05	0,15	-	-
		GL3-D300M02-PM	T7325	▣	■					●	+++	02	0,05	0,15	-	-
		GL4-D400M02-PM	G8330	■	■	▣				●	+++	02	0,08	0,18	-	-
		GL4-D400M02-PM	T7325	▣	■					●	+++	02	0,08	0,18	-	-
		GL5-D500M03-PM	G8330	■	■	▣				●	+++	03	0,1	0,21	-	-
		GL6-D600M03-PM	G8330	■	■	▣				●	+++	03	0,1	0,24	-	-
		GL2-D200G02R06-PM	G8330	■	■	▣				●	+++	02	0,05	0,12	-	6
		GL2-D200G02R06-PM	T7325	▣	■					●	+++	02	0,05	0,12	-	6
		GL2-D200G02R12-PM	G8330	■	■	▣				●	+++	02	0,05	0,15	-	12
		GL3-D300G02R06-PM	G8330	■	■	▣				●	+++	02	0,05	0,15	-	6
		GL3-D300G02R06-PM	T7325	▣	■					●	+++	02	0,05	0,15	-	6
		GL3-D300G02R12-PM	G8330	■	■	▣				●	+++	02	0,05	0,15	-	12
		GL4-D400G02R06-PM	G8330	■	■	▣				●	+++	02	0,08	0,18	-	6
		GL4-D400G02R06-PM	T7325	▣	■					●	+++	02	0,08	0,18	-	6
		GL4-D400G02R12-PM	G8330	■	■	▣				●	+++	02	0,08	0,18	-	12
		GL2-D200G02L06-PM	G8330	■	■	▣				●	+++	02	0,05	0,12	6	-
		GL2-D200G02L06-PM	T7325	▣	■					●	+++	02	0,05	0,12	6	-
		GL2-D200G02L12-PM	G8330	■	■	▣				●	+++	02	0,05	0,15	12	-
		GL3-D300G02L06-PM	G8330	■	■	▣				●	+++	02	0,05	0,15	6	-
		GL3-D300G02L06-PM	T7325	▣	■					●	+++	02	0,05	0,15	6	-
		GL3-D300G02L12-PM	G8330	■	■	▣				●	+++	02	0,05	0,15	12	-
		GL4-D400G02L06-PM	G8330	■	■	▣				●	+++	02	0,08	0,18	6	-
		GL4-D400G02L06-PM	T7325	▣	■					●	+++	02	0,08	0,18	6	-
		GL4-D400G02L12-PM	G8330	■	■	▣				●	+++	02	0,08	0,18	12	-
		GL2-D200M02-PR	G8330	■	▣	▣				☹	+++	02	0,05	0,16	-	-
		GL2-D200M02-PR	T7325	■	▣					●	+++	02	0,05	0,16	-	-
		GL3-D300M02-PR	G8330	■	▣	▣				☹	+++	02	0,05	0,2	-	-
		GL3-D300M02-PR	T7325	■	▣					●	+++	02	0,05	0,2	-	-
		GL4-D400M02-PR	G8330	■	▣	▣				☹	+++	02	0,08	0,25	-	-
		GL4-D400M02-PR	T7325	■	▣					●	+++	02	0,08	0,25	-	-
		GL5-D500M04-PR	G8330	■	▣	▣				☹	+++	04	0,1	0,28	-	-
		GL6-D600M04-PR	G8330	■	▣	▣				☹	+++	04	0,1	0,32	-	-
		GL2-D200G02R06-PR	G8330	■	▣	▣				●	+++	02	0,05	0,16	-	6
		GL2-D200G02R12-PR	G8330	■	▣	▣				●	+++	02	0,05	0,16	-	12
		GL3-D300G02R06-PR	G8330	■	▣	▣				●	+++	02	0,05	0,2	-	6
		GL3-D300G02R12-PR	G8330	■	▣	▣				●	+++	02	0,05	0,2	-	12
		GL4-D400G02R06-PR	G8330	■	▣	▣				●	+++	02	0,08	0,25	-	6
		GL4-D400G02R12-PR	G8330	■	▣	▣				●	+++	02	0,08	0,25	-	12
		GL2-D200G02L06-PR	G8330	■	▣	▣				●	+++	02	0,05	0,16	6	-
		GL2-D200G02L12-PR	G8330	■	▣	▣				●	+++	02	0,05	0,16	12	-
		GL3-D300G02L06-PR	G8330	■	▣	▣				●	+++	02	0,05	0,2	6	-
		GL3-D300G02L12-PR	G8330	■	▣	▣				●	+++	02	0,05	0,2	12	-
		GL4-D400G02L06-PR	G8330	■	▣	▣				●	+++	02	0,08	0,25	6	-
		GL4-D400G02L12-PR	G8330	■	▣	▣				●	+++	02	0,08	0,25	12	-

KOD İŞARETLERİ – KESME VE KANAL AÇMA TAKIMLARI (DIŞ ÇAP TORNALAMA)

1	2	3	4	5	6	7	8	9	10	11
GL	3	S	2525	M	F	L	20	R	120	090



1	2	3	4
Takım grubu	Yuva boyutu	Şaft tipi	Şaft ölçüleri
GL	1, 2, 3, 4, 5, 6	A	 H/B [mm]/[mm]
		S	
		İçten soğutmalı çelik şaft	
		İçten soğutmasız çelik şaft	

5	6	7	8														
Şaft boyu - LF	Yanaşma açısı	Model (sağ/sol)	Maksimum kesme derinliği - CDX														
 <table border="1"> <thead> <tr> <th></th> <th>LF [mm]</th> </tr> </thead> <tbody> <tr> <td>K</td> <td>125</td> </tr> <tr> <td>M</td> <td>150</td> </tr> <tr> <td>P</td> <td>170</td> </tr> </tbody> </table>		LF [mm]	K	125	M	150	P	170	 <table border="1"> <thead> <tr> <th></th> <th>°</th> </tr> </thead> <tbody> <tr> <td>G</td> <td>0</td> </tr> <tr> <td>F</td> <td>90</td> </tr> </tbody> </table>		°	G	0	F	90	 R L	
	LF [mm]																
K	125																
M	150																
P	170																
	°																
G	0																
F	90																

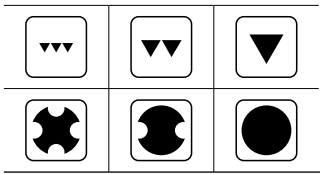
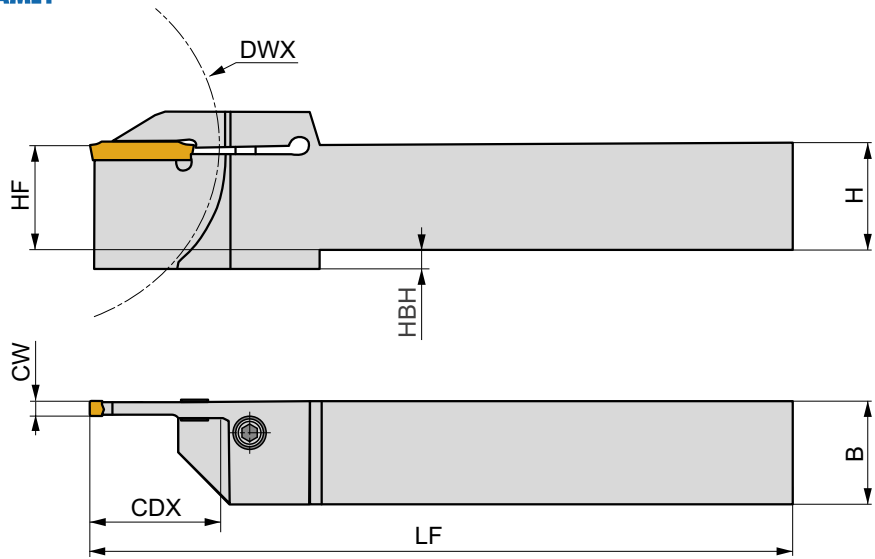
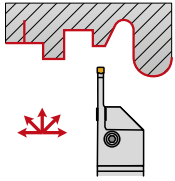
9	10	11
Takım kavis yönü	Maksimum çap	Minimum çap
 L R		
Eksenel tornalama için ek bilgi.		

GLSF(RL) EXT

P M K N S H

G

PRAMET



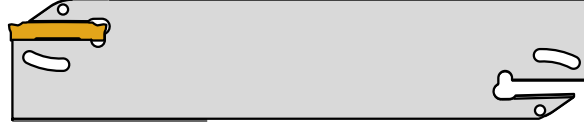
	HF	H	B	LF	CW	CDX	HBH	DWX	kg		
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]			
GL2-S1616KFR/L-16-45	16	16	16	125	2	16	3	45	0,23	GI334	GL12
GL2-S2020KFR/L-20-80	20	20	20	125	2	20	-	80	0,39	GI334	GL11
GL2-S2525MFR/L-20-80	25	25	25	150	2	20	-	80	0,68	GI334	GL11
GL3-S1616KFR/L-16-45	16	16	16	125	3	16	3	45	0,23	GI335	GL12
GL3-S2020KFR/L-20-80	20	20	20	125	3	20	-	80	0,39	GI335	GL11
GL3-S2525MFR/L-20-80	25	25	25	150	3	20	-	80	0,68	GI335	GL11
GL3-S2525PFR/L-32-80	25	25	25	170	3	32	5	80	0,72	GI335	GL11
GL4-S2020KFR/L-20-80	20	20	20	125	4	20	-	80	0,39	GI336	GL11
GL4-S2525MFR/L-20-80	25	25	25	150	4	20	-	80	0,68	GI336	GL11
GL4-S2525PFR/L-32-80	25	25	25	170	4	32	5	80	0,72	GI336	GL11
GL5-S2020KFR/L-20-80	20	20	20	125	5	20	-	80	0,39	GI337	GL11
GL5-S2525MFR/L-20-80	25	25	25	150	5	20	-	80	0,68	GI337	GL11
GL6-S2020KFR/L-20-80	20	20	20	125	6	20	-	80	0,39	GI338	GL11
GL6-S2525MFR/L-20-80	25	25	25	150	6	20	-	80	0,68	GI338	GL11

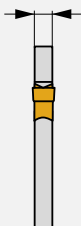
GI334	GL2..
GI335	GL3..
GI336	GL4..
GI337	GL5..
GI338	GL6..


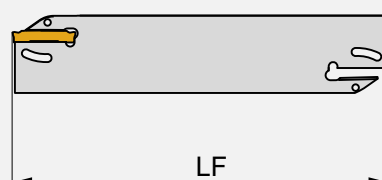
GL11	US 5018-T20P	5,0	M5	18,2	-	LK T20P	-
GL12	HS 0516	5,0	M5	-	16	-	HXX4

KOD İŞARETLERİ – KESME VE KANAL AÇMA LAMALARI (DIŞ ÇAP TORNALAMA)

1	2	3	4	5	6
GL	3	-	S	32	M
					B



1	2	3				
Takım grubu	Yuva boyutu	Şaft tipi				
GL	1, 2, 3, 4, 5, 6 	<table border="1"> <tr> <td>A</td> <td>İçten soğutmalı çelik şaft</td> </tr> <tr> <td>S</td> <td>İçten soğutmasız çelik şaft</td> </tr> </table>	A	İçten soğutmalı çelik şaft	S	İçten soğutmasız çelik şaft
A	İçten soğutmalı çelik şaft					
S	İçten soğutmasız çelik şaft					

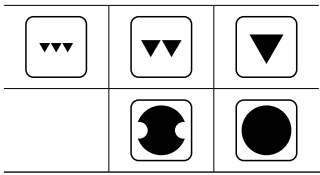
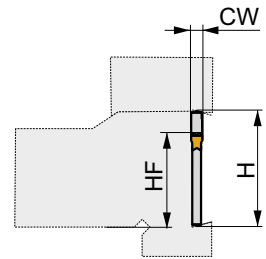
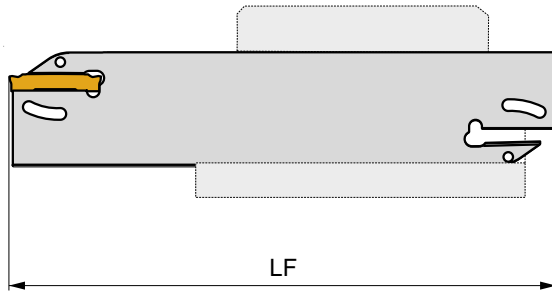
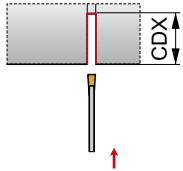
4	5	6															
Şaft ölçüleri	Toplam lama uzunluğu - LF	Yanaşma açısı															
 <table border="1"> <thead> <tr> <th></th> <th>H [mm]</th> </tr> </thead> <tbody> <tr> <td>26</td> <td>26</td> </tr> <tr> <td>32</td> <td>32</td> </tr> </tbody> </table>		H [mm]	26	26	32	32	 <table border="1"> <thead> <tr> <th></th> <th>LF [mm]</th> <th>LF [in]</th> </tr> </thead> <tbody> <tr> <td>K</td> <td>125</td> <td>5.000</td> </tr> <tr> <td>M</td> <td>150</td> <td>6.000</td> </tr> </tbody> </table>		LF [mm]	LF [in]	K	125	5.000	M	150	6.000	B - lama
	H [mm]																
26	26																
32	32																
	LF [mm]	LF [in]															
K	125	5.000															
M	150	6.000															

GLS B

P M K N S H

X

PRAMET

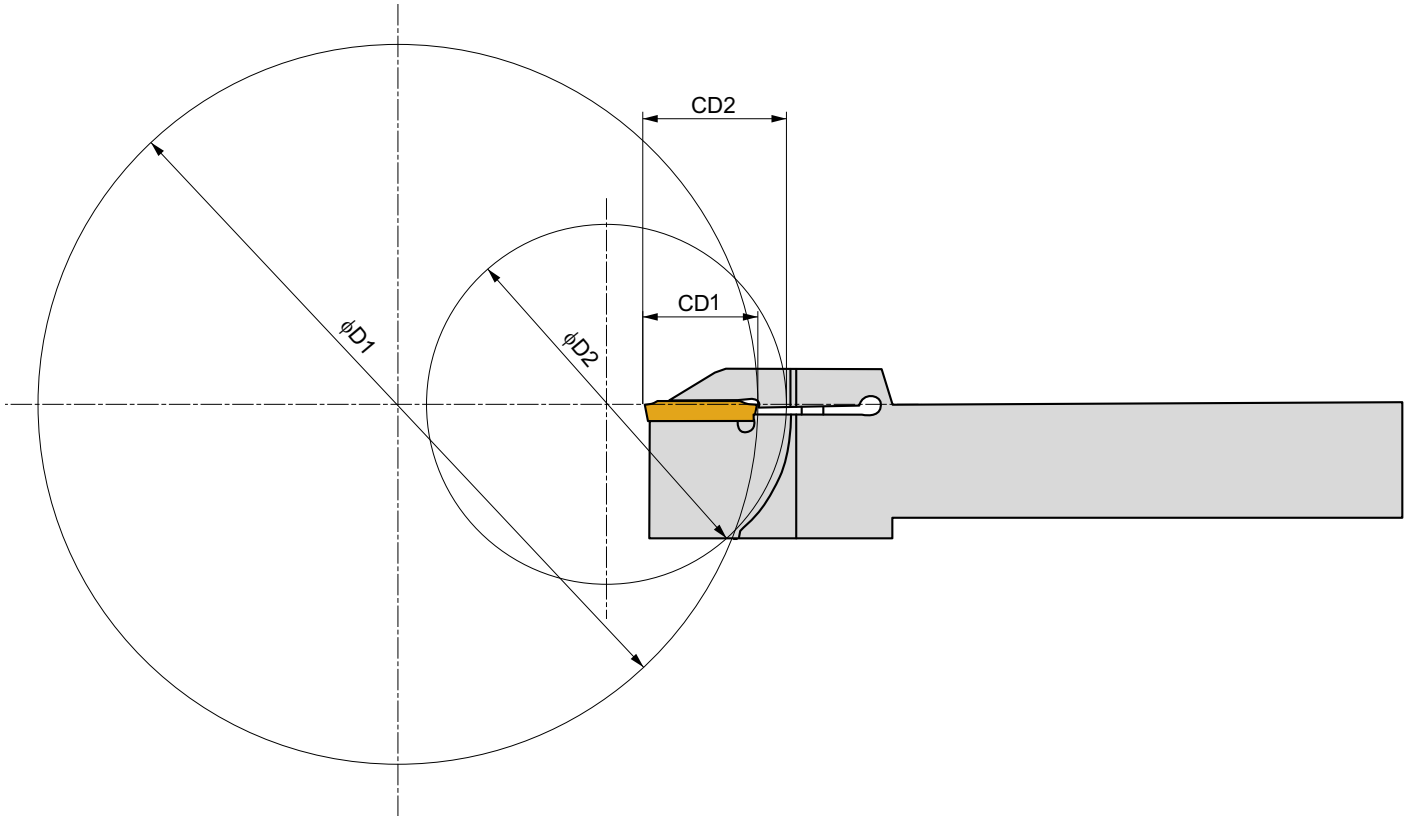
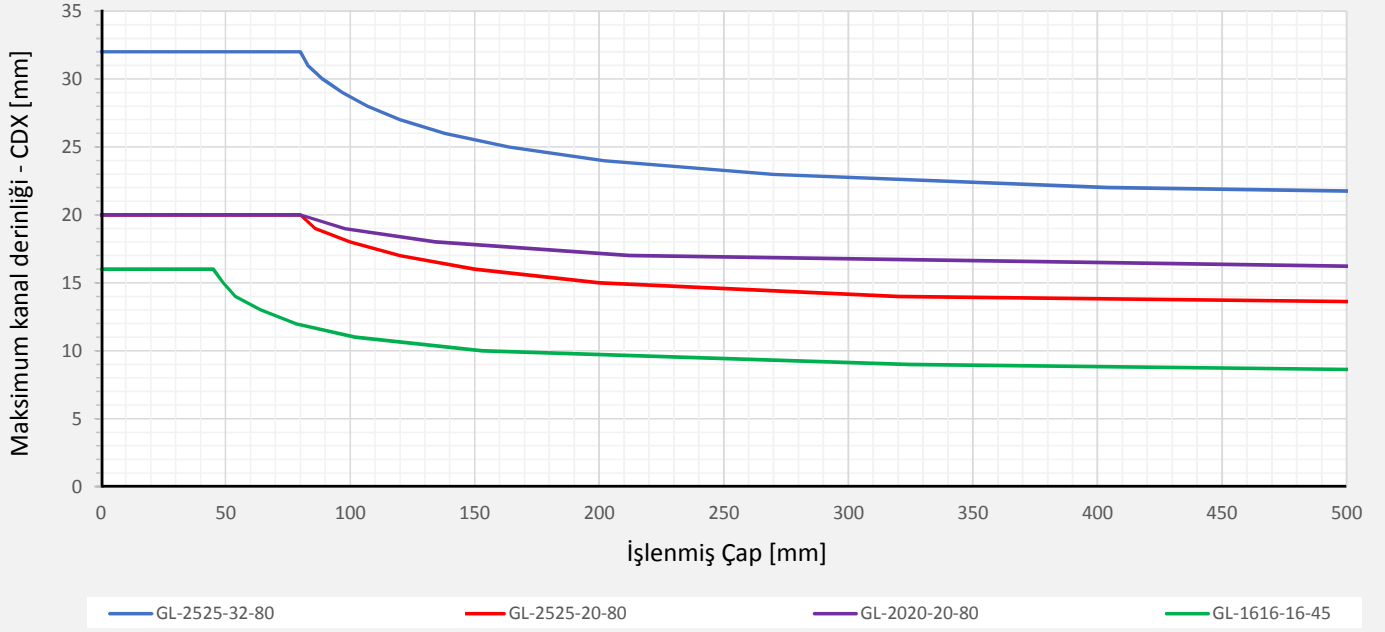


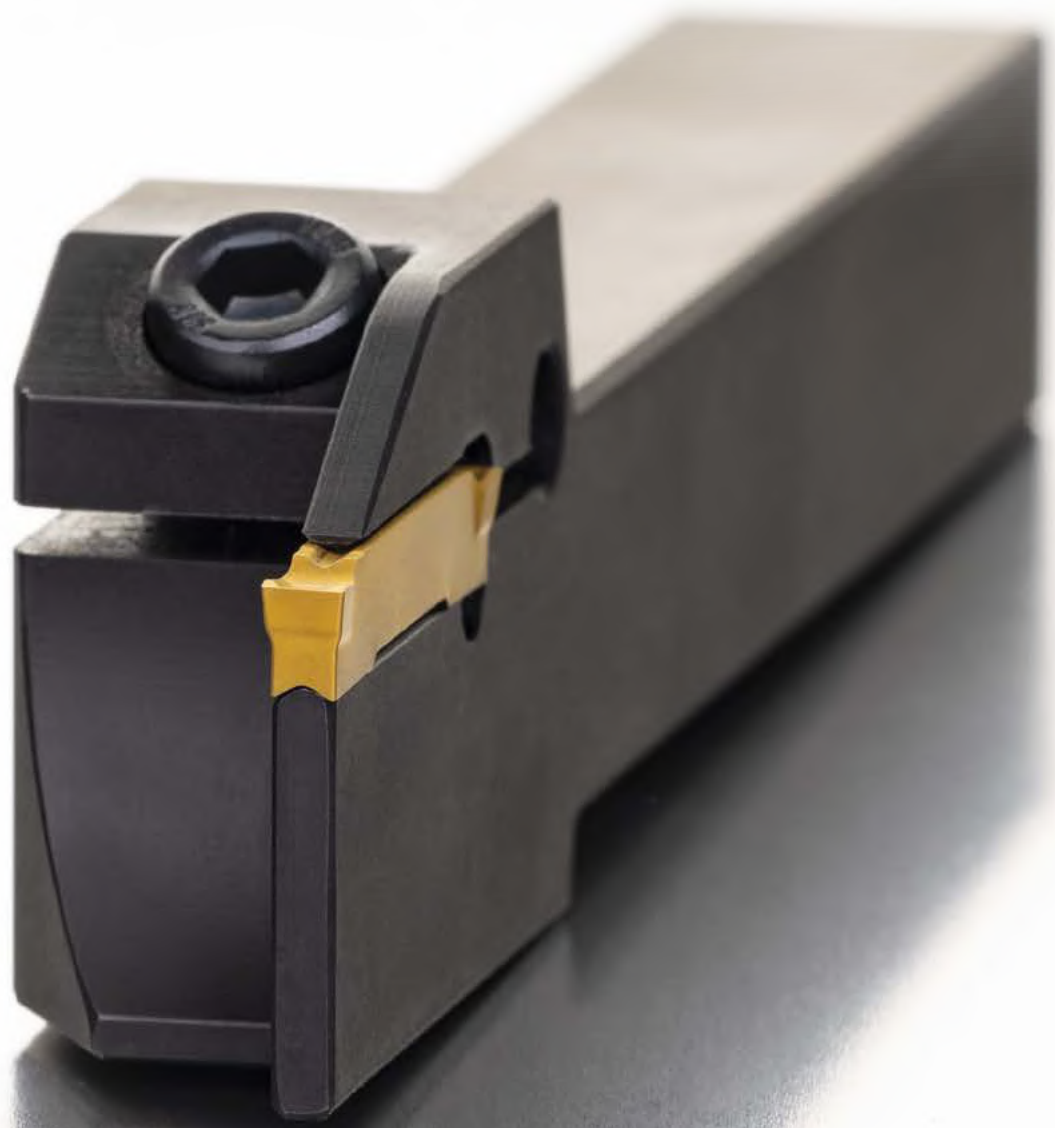
	HF	H	LF	CW	CDX	kg		
	[mm]	[mm]	[mm]	[mm]	[mm]			
GL2-S26KB	20	26	125	2	35	0,14	GI334	KV2
GL2-S32MB	25	32	150	2	50	0,16	GI334	KV2
GL3-S26KB	20	26	125	3	35	0,14	GI335	KV2
GL3-S32MB	25	32	150	3	50	0,16	GI335	KV2
GL4-S32MB	25	32	150	4	50	0,16	GI336	KV2
GL5-S32MB	25	32	150	5	60	0,16	GI337	KV2
GL6-S32MB	25	32	150	6	60	0,16	GI338	KV2

GI334	GL2..
GI335	GL3..
GI336	GL4..
GI337	GL5..
GI338	GL6..

KV2	KV 15x150

KESME DERİNLİKLERİ İŞLENMİŞ ÇAPA BAĞLI OLARAK DEĞİŞİR







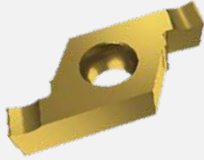
SEGMANLARIN VE O-RİNG KANALLARININ VERİMLİ ÜRETİMİ

Yaylı segmanları ve o-ring kanallarını hassas şekilde işleme olanağı veren yeni kanal açma sistemi. İçten ve dıştan işlemler için, özellikle küçük iç çaplarda ve derin kanallarda finiş işleme için uygundur.

ÖZELLİKLER VE AVANTAJLAR

- Tek ve çift kenarlı kesici uç tasarımı
- Orta genişlikte negatif T bölgesi
- Pozitif geometri
- PVD ve CVD kalitelerde sunulur
- Hassas taşlanmış kesici uçlar
- P61 kanal açma takımı 12,5mm başlangıç çapı sunar
- 16x16 mm ile 25x25mm arası P61 takımlar
- **Güvenilir işleme** – iyileştirilmiş kesme kenarı mukavemeti sayesinde.
- **Sessiz işleme performansı** - kesme kuvvetlerini ve titreşimi azaltan pozitif geometri.
- **Talaş tahliyesini iyileştirir** – talaş yukarı yönde ve sıkı bir şekilde kıvrılarak çıkmaya zorlanır böylece geniş aralıklı kesim ilerlemelerinde daha fazla kırılabilir.
- **Yüksek yüzey kalitesi** – taşlanmış ve keskin kesme kenarları sayesinde daha düşük ilerleme hızları kullanılabilir
- **Yüksek verimli ve çok yönlü çözüm** MT-CVD ve PVD kaliteleri sayesinde

SUNULAN KALİTELER

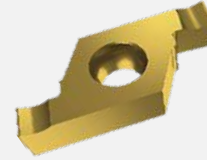


G8330

NEW

G8330 KALİTE

- PVD kaplamalı
- Çelik, paslanmaz çelik ve dökme demir için genel işleme kalitesi



6640

6640 KALİTE

- MT-CVD kaplamalı
- Çelikler ve paslanmaz çelikler için yüksek verimli çözüm

İŞLEME ÖRNEĞİ

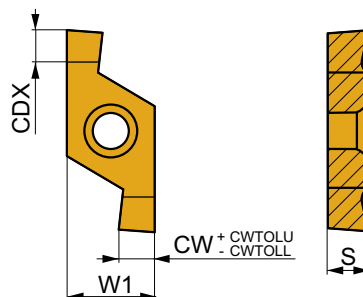
Malzeme:	100Cr6 (183 HB)
Malzeme grubu:	P
İş parçası:	Segman
Kesici uç:	X61 0602-215 L:G8330
Tutucu:	P61.SFL-2020K-06
Kesme sıvısı:	Evet

İşlem			Kanal açma
İş parçası çapı		mm	60
Kesme hızı	v_c	m/dak	230
İlerleme	f	mm/dev	0,05
Kesme derinliği	a_p	mm	1,5

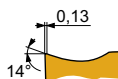
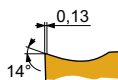
X61



	W1	S
0602	6,350	2,33



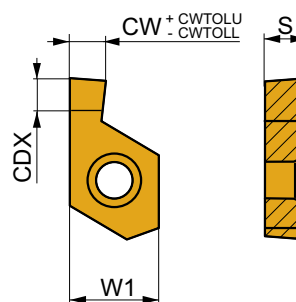
i	↖	ISO	Image	P	M	K	N	S	H	Image	Image	RE	FN	FX	CDN	CDX	CW	CWTOLL	CWTOLU
X61 0602-080 R	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	0,8	0,85	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	0,8	0,85	-0,03	0,03
X61 0602-090 R	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	0,8	0,95	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	0,8	0,95	-0,03	0,03
X61 0602-100 R	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	0,8	1,05	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	0,8	1,05	-0,03	0,03
X61 0602-110 R	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	1,2	1,15	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	1,2	1,15	-0,03	0,03
X61 0602-130 R	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	1,4	1,35	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	1,4	1,35	-0,03	0,03
X61 0602-150 R	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	1,6	1,55	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	1,6	1,55	-0,03	0,03
X61 0602-160 R	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	1,7	1,65	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	1,7	1,65	-0,03	0,03
X61 0602-185 R	6640	6640	■	■	▣					●	+++	-	0,03	0,12	-	2,0	1,90	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,03	0,12	-	2,0	1,90	-0,03	0,03
X61 0602-200 R	G8330	■	■	▣	▣					●	+++	-	0,03	0,12	-	2,2	2,05	-0,03	0,03
X61 0602-215 R	6640	6640	■	■	▣					●	+++	-	0,03	0,12	-	2,4	2,20	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,03	0,12	-	2,4	2,20	-0,03	0,03
X61 0602-250 R	G8330	6640	■	■	▣	▣				●	+++	-	0,03	0,12	-	2,6	2,55	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,03	0,12	-	2,6	2,55	-0,03	0,03
X61 0602-265 R	6640	6640	■	■	▣					●	+++	-	0,04	0,16	-	2,7	2,70	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,04	0,16	-	2,7	2,70	-0,03	0,03
X61 0602-300 R	6640	6640	■	■	▣					●	+++	-	0,04	0,16	-	3,0	3,05	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,04	0,16	-	3,0	3,05	-0,03	0,03
X61 0602-315 R	6640	6640	■	■	▣					●	+++	-	0,04	0,16	-	3,0	3,20	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,04	0,16	-	3,0	3,20	-0,03	0,03
X61 0602-080 L	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	0,8	0,85	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	0,8	0,85	-0,03	0,03
X61 0602-090 L	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	0,8	0,95	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	0,8	0,95	-0,03	0,03
X61 0602-100 L	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	0,8	1,05	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	0,8	1,05	-0,03	0,03
X61 0602-110 L	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	1,2	1,15	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	1,2	1,15	-0,03	0,03
X61 0602-130 L	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	1,4	1,35	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	1,4	1,35	-0,03	0,03
X61 0602-150 L	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	1,6	1,55	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	1,6	1,55	-0,03	0,03
X61 0602-160 L	6640	6640	■	■	▣					●	+++	-	0,02	0,08	-	1,7	1,65	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,02	0,08	-	1,7	1,65	-0,03	0,03
X61 0602-185 L	6640	6640	■	■	▣					●	+++	-	0,03	0,12	-	2,0	1,90	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,03	0,12	-	2,0	1,90	-0,03	0,03
X61 0602-200 L	G8330	■	■	▣	▣					●	+++	-	0,03	0,12	-	2,2	2,05	-0,03	0,03
X61 0602-215 L	6640	6640	■	■	▣					●	+++	-	0,03	0,12	-	2,4	2,20	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,03	0,12	-	2,4	2,20	-0,03	0,03
X61 0602-250 L	G8330	6640	■	■	▣	▣				●	+++	-	0,03	0,12	-	2,6	2,55	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,03	0,12	-	2,6	2,55	-0,03	0,03
X61 0602-265 L	6640	6640	■	■	▣					●	+++	-	0,04	0,16	-	2,7	2,70	-0,03	0,03
		G8330	■	■	▣	▣				●	+++	-	0,04	0,16	-	2,7	2,70	-0,03	0,03



i	ISO	Material	P	M	K	N	S	H	?	RE	FN	FX	CDN	CDX	CW	CWTOLL	CWTOLU	
U S	X61 0602-300 L	6640	■	■	▣				●	+++	-	0,04	0,16	-	3,0	3,05	-0,03	0,03
		G8330	■	■	▣	▣			●	+++	-	0,04	0,16	-	3,0	3,05	-0,03	0,03
	X61 0602-315 L	6640	■	■	▣				●	+++	-	0,04	0,16	-	3,0	3,20	-0,03	0,03
		G8330	■	■	▣	▣			●	+++	-	0,04	0,16	-	3,0	3,20	-0,03	0,03

X61-1		
0602	W1	S
0602	6,350	2,33

PRAMET

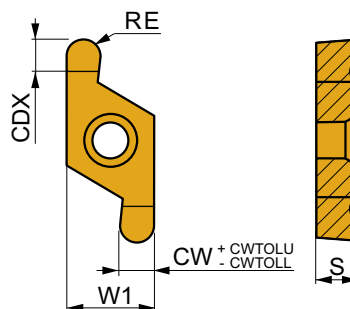


i	ISO	Material	P	M	K	N	S	H	?	RE	FN	FX	CDN	CDX	CW	CWTOLL	CWTOLU	
U S	X61 0602-080 R1	6640	■	■	▣				●	+++	-	0,02	0,08	-	0,8	0,85	-0,03	0,03
		X61 0602-090 R1	6640	■	■	▣			●	+++	-	0,02	0,08	-	0,8	0,95	-0,03	0,03
		X61 0602-110 R1	6640	■	■	▣			●	+++	-	0,02	0,08	-	1,2	1,15	-0,03	0,03
		X61 0602-130 R1	6640	■	■	▣			●	+++	-	0,02	0,08	-	1,4	1,35	-0,03	0,03
		X61 0602-160 R1	6640	■	■	▣			●	+++	-	0,02	0,08	-	1,7	1,65	-0,03	0,03
	X61 0602-185 R1	6640	■	■	▣				●	+++	-	0,03	0,12	-	2,0	1,90	-0,03	0,03
		X61 0602-215 R1	6640	■	■	▣			●	+++	-	0,03	0,12	-	2,2	2,20	-0,03	0,03
		X61 0602-080 L1	6640	■	■	▣			●	+++	-	0,02	0,08	-	0,8	0,85	-0,03	0,03
		X61 0602-090 L1	6640	■	■	▣			●	+++	-	0,02	0,08	-	0,8	0,95	-0,03	0,03
		X61 0602-110 L1	6640	■	■	▣			●	+++	-	0,02	0,08	-	1,2	1,15	-0,03	0,03
S	X61 0602-130 L1	6640	■	■	▣			●	+++	-	0,02	0,08	-	1,4	1,35	-0,03	0,03	
	X61 0602-160 L1	6640	■	■	▣			●	+++	-	0,02	0,08	-	1,7	1,65	-0,03	0,03	
	X61 0602-185 L1	6640	■	■	▣			●	+++	-	0,03	0,12	-	2,0	1,90	-0,03	0,03	
	X61 0602-215 L1	6640	■	■	▣			●	+++	-	0,03	0,12	-	2,2	2,20	-0,03	0,03	

X61 R



	W1	S
0602	6,350	2,33

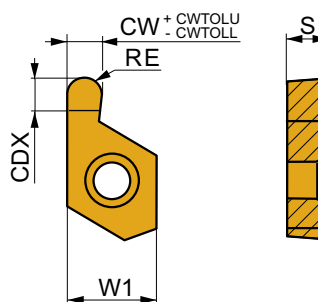


i	ISO	Material	P	M	K	N	S	H	Coating	RE	FN	FX	CDN	CDX	CW	CWTOLL	CWTOLU	
																		?
U	X61 0602-R100 R	6640	■	■	▣				●	+++	1,0	0,03	0,08	-	3,0	2,09	-0,03	0,03
		G8330	■	■	▣	▣			●	+++	1,0	0,03	0,08	-	3,0	2,09	-0,03	0,03
E	X61 0602-R150 R	6640	■	■	▣				●	+++	1,5	0,03	0,08	-	3,0	3,09	-0,03	0,03
		G8330	■	■	▣	▣			●	+++	1,5	0,03	0,08	-	3,0	3,09	-0,03	0,03
U	X61 0602-R100 L	6640	■	■	▣				●	+++	1,0	0,03	0,08	-	3,0	2,09	-0,03	0,03
		G8330	■	■	▣	▣			●	+++	1,0	0,03	0,08	-	3,0	2,09	-0,03	0,03
E	X61 0602-R150 L	6640	■	■	▣				●	+++	1,5	0,03	0,08	-	3,0	3,09	-0,03	0,03
		G8330	■	■	▣	▣			●	+++	1,5	0,03	0,08	-	3,0	3,09	-0,03	0,03

X61 R-1



	W1	S
0602	6,350	2,33



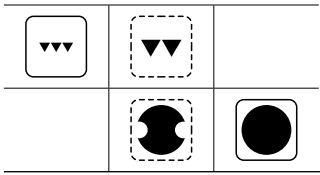
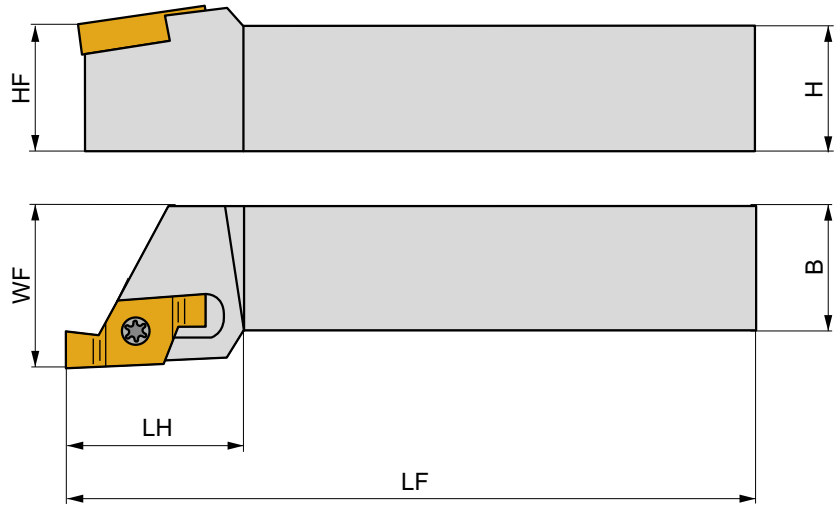
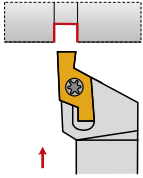
i	ISO	Material	P	M	K	N	S	H	Coating	RE	FN	FX	CDN	CDX	CW	CWTOLL	CWTOLU	
																		?
U	X61 0602-R050 R1	6640	■	■	▣				●	+++	0,5	0,03	0,08	-	1,3	1,09	-0,03	0,03
		X61 0602-R100 R1	6640	■	■	▣			●	+++	1,0	0,03	0,08	-	2,8	2,09	-0,03	0,03
U	X61 0602-R050 L1	6640	■	■	▣				●	+++	0,5	0,03	0,08	-	1,3	1,09	-0,03	0,03
		X61 0602-R100 L1	6640	■	■	▣			●	+++	1,0	0,03	0,08	-	2,8	2,09	-0,03	0,03

P61(RL) EXT

P M K N S

S

PRAMET



	HF	H	B	WF	LF	LH	KAPR	kg		
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]			
P61.SFR/L-1616H-06	16	16	16	20	100	21	0	0,21	GI332	SV11
P61.SFR/L-2020K-06	20	20	20	25	125	25	0	0,40	GI332	SV11
P61.SFR/L-2525M-06	25	25	25	32	150	32	0	0,73	GI332	SV11

GI332	X61 0602..

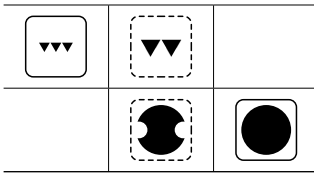
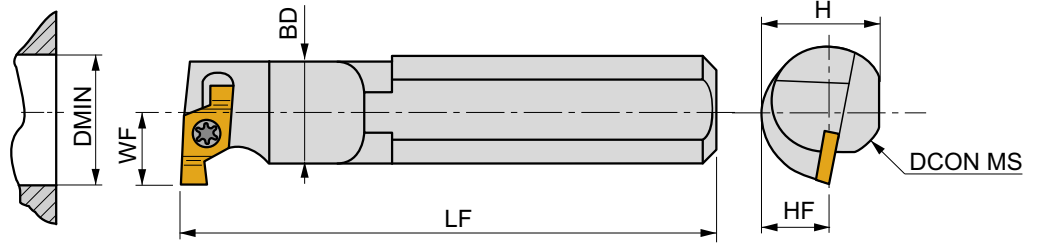
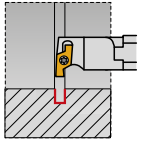
SV11	US 2003-T07P	0,8	M2,5	6,5	FLAG T07P

P61(RL) INT

P M K N S

S

PRAMET



	DCON MS	DMIN	BD	WF	H	LF	KAPR				
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]				
P61.SGR/L-0012M-06	12	16	11,5	9	11	150	0	-	0,14	G332	SV11
P61.SGR/L-A-0016M-06	16	20	15	11	15	150	0	✓	0,21	G332	SV11
P61.SGR/L-A-0020P-06	20	25	19	13	18	170	0	✓	0,38	G332	SV11
P61.SGR/L-A-0025R-06	25	32	24	17	23	200	0	✓	0,70	G332	SV11
P61.SGR/L-A-0032T-06	32	40	31	22	30	300	0	✓	1,72	G332	SV11

G332	X61 0602..

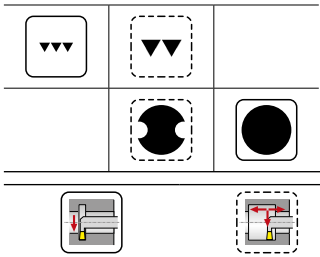
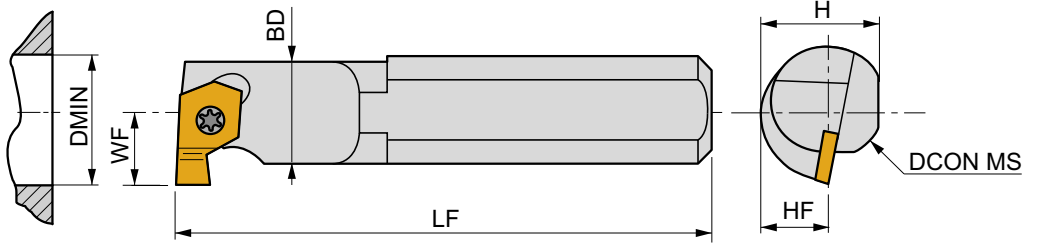
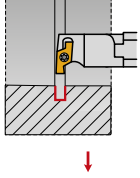
SV11	US 2003-T07P	0,8	M2,5	6,5	FLAG T07P

P61S(RL)-1 INT

P M K N S

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PRAMET



	DCON MS	DMIN	BD	WF	H	LF	KAPR	kg		
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]			
P61.SGR/L-0010M-06/1	10	12,5	10	7,5	9	150	0	0,14	G1333	SV11
P61.SGR/L-0012M-06/1	12	12,5	10	7,5	11	150	0	0,21	G1333	SV11

G1333	X61 0602.-1

SV11	US 2003-T07P	0,8	M2,5	6,5	FLAG T07P



YÜKSEK HASSASİYETLİ BAĞLANTI OLANAĞI SUNAN HIZLI DEĞİŞTİRMELİ TORNALAMA TAKIMLARI

Poligon şaftlı tutucu iş mili arayüzü yüksek hassasiyet sağlayan bir tutucu sistemidir. Tornalama-frezleme merkezleri gibi çok amaçlı tezgahlarda yaygın olarak kullanılır. Poligon koni biçimli takım şaftı ve flanş yüzeyi teması sabit ve hassas konumlandırma ve yüksek derecede rijitlik sağlar.

ÖZELLİKLER VE AVANTAJLAR

- Yüksek hassasiyete sahip, direkt arayüzlü takımlar
- En yüksek doğruluk ve rijitlik
- Dairesel yönde kesin konumlandırma
- Dahili soğutma kanalları, harici ayarlanabilen nozüle sahip takımlar
- Benzersiz konik poligon ve flanş konumlu yüzeye sahip arayüz
- ISO 26623-1 alıcı parçaya sahip çok amaçlı tezgahlar için uygundur
- **Daha hızlı ve hassas işleme** arayüzün yüksek stabilitesinin sağladığı yüksek verim sayesinde
- **Maliyet tasarrufu** - düşük kurulum süresi ve otomatik takım değiştirme
- **Tekrarlanabilirlik** - X, Y, Z yönlerindeki bağlantı hassasiyeti $\pm 2 \mu\text{m}$ seviyesindedir
- **Yüzey kalitesi** - daha kısa kullanma mesafesi sayesinde daha az titreşim

ÜRÜNLERİMİZ

- Dış takımlandırma için 19 takım tipi
- İç takımlandırma için 7 takım tipi
- 5 şaft boyutu

Standart dikdörtgen kesit şaftlı takımlar



PŞT Hızlı Değişimli Takımlar



İşleme süresinin genel kırılımı:

12 %	Servis / bakım	13 %
15 %	Adet ayarlama master çalışması	13 %
20 %	Kesici uç indeksleme ve takım değiştirme	10 %
18 %	İş parçasını sabitleme	19 %
35 %	İşleme	45 %

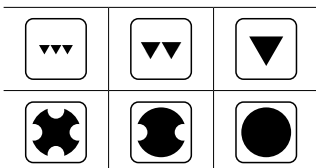
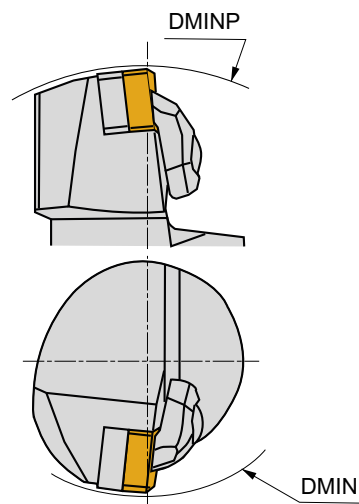
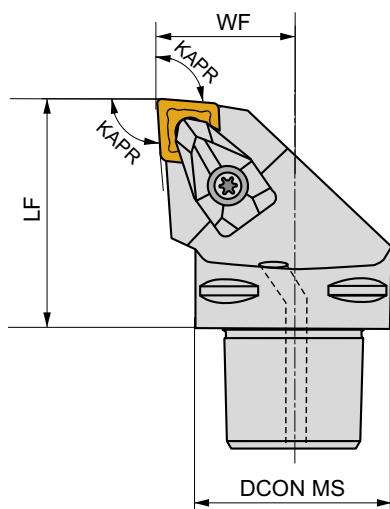
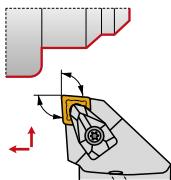
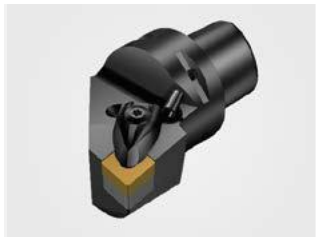
%29 daha fazla kesim süresi

C-DCLN(RL) EXT

P M K N S H

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PRAMET



	DCON MS	DMIN	DMINP	WF	LF	KAPR	LAMS	GAMO					
	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]					
C3-DCLNR-22045-12	32	60	121	22	45	95	-6	-6	✓	0,26	GI043	C-DC12	AT001
C4-DCLNR/L-27050-12	40	110	140	27	50	95	-6	-6	✓	0,44	GI043	C-DC12	AT001
C4-DCLNR/L-27055-16	40	125	145	27	55	95	-6	-6	✓	0,48	GI050	C-DC16	AT005
C5-DCLNR/L-35060-12	50	110	165	35	60	95	-6	-6	✓	0,79	GI043	C-DC12	AT001
C5-DCLNR/L-35060-16	50	125	165	35	60	95	-6	-6	✓	0,79	GI050	C-DC16	AT005
C6-DCLNR/L-45065-12	63	110	190	45	65	95	-6	-6	✓	1,32	GI043	C-DC12	AT001
C6-DCLNR/L-45065-16	63	125	190	45	65	95	-6	-6	✓	1,34	GI050	C-DC16	AT005
C6-DCLNR/L-45065-19	63	81	190	45	65	95	-6	-6	✓	1,34	GI042	C-DC19	-
C8-DCLNL-55080-16	80	125	250	55	80	95	-6	-6	✓	2,59	GI050	C-DC16	AT005
C8-DCLNR/L-55080-19	80	100	250	55	80	95	-6	-6	✓	2,61	GI042	C-DC19	-

GI043	CN.. 1204..
GI050	CN.. 1606..
GI042	CN.. 1906..

DC12	DCS 12	3,9	DCS 236-03	US 2002-T15P	FLAG T15P/3,5	-	-
C-DC12	DCS 12	3,9	DCS 234-01	US 2002-T15P	FLAG T15P/3,5	-	CN 045-01
C-DC16	DCS 16	6,4	DCS 234-03	US 2007-T20P	-	LKT20P	CN 045-01
C-DC19	DCS 19	6,4	DCS 236-01	US 2007-T20P	-	LKT20P	CN 045-01

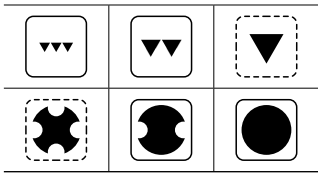
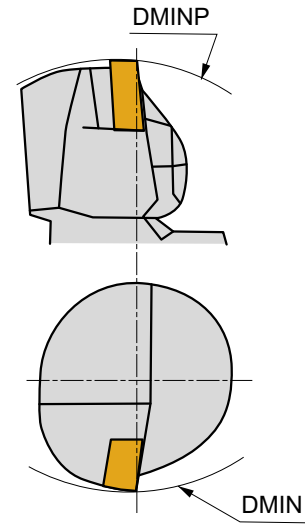
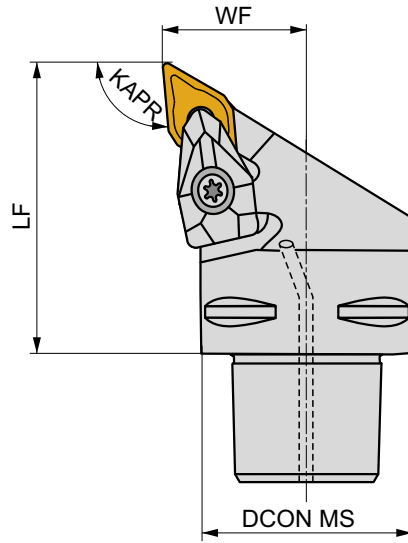
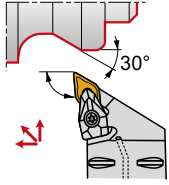
AT001	CN.. 1207..	-	DCS 234-02
AT005	CN.. 1607..	-	DCS 234-04
AT001	CER CN.N 1204..	DCS 12C4	-
AT001	CER CN.A 1204..	DCS 12C2	-
AT005	CER CN.N 1606..	DCS 16C4	-
AT005	CER CN.A 1606..	DCS 16C2	-

C-DDJN(RL) EXT

P M K N S H

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PRAMET



	DCON MS	DMIN	DMINP	WF	LF	KAPR	LAMS	GAMO						
	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]						
C4-DDJNR/L-27050-11	40	60	140	27	50	93	-7	-6	✓	0,39	G1046	C-DD11	-	
C4-DDJNR/L-27055-15	40	110	145	27	55	93	-7	-6	✓	0,46	G1044	C-DD154-1	AT002	
C5-DDJNR/L-35060-15	50	110	165	35	60	93	-7	-6	✓	0,72	G1044	C-DD154-2	AT002	
C6-DDJNR/L-45065-15	63	110	190	45	65	93	-7	-6	✓	1,18	G1044	C-DD154-3	AT002	

G1046		DN.. 1104..
G1044		DN.. 1506..

C-DD11	DCS 09	1,7	DDS 267-01	US 2004-T09P	FLAG T09P	CN 034-01
C-DD154-1	DCS 12	3,9	DDS 266-02	US 2002-T15P	FLAG T15P/3,5	CN 034-01
C-DD154-2	DCS 12	3,9	DDS 266-02	US 2002-T15P	FLAG T15P/3,5	CN 045-01
C-DD154-3	DCS 12	3,9	DDS 266-02	US 2002-T15P	FLAG T15P/3,5	CN 034-02

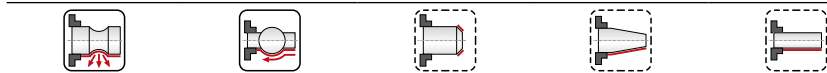
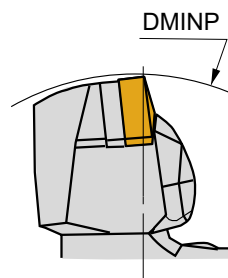
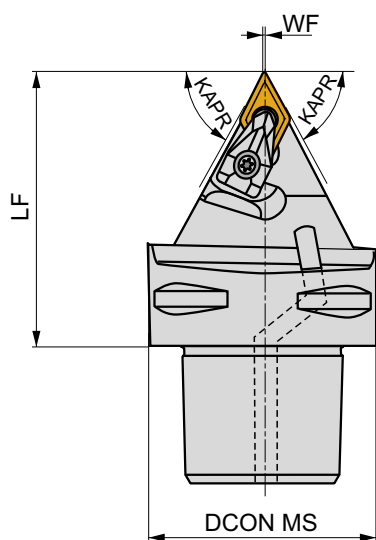
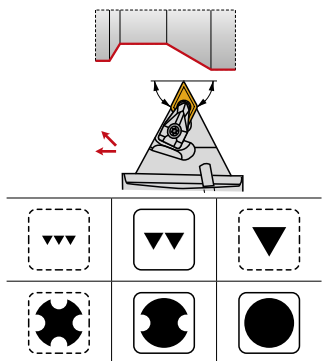
AT002	DN.. 1504..	-	DDS 266-01
AT002	CER DN.N 1506..	DCS 12C4	-
AT002	CER DN.A 1506..	DCS 12C2	-
AT002	CER DN.N 1504..	DCS 12C4	DDS 266-01
AT002	CER DN.A 1504..	DCS 12C2	DDS 266-01

C.-DDNNN EXT

P M K N S H

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PRAMET



	DCON MS	DMINP	WF	LF	KAPR	LAMS	GAMO					
	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]					
C5-DDNNN-00060-15	50	165	0,5	60	62,5	-9	-5	✓	0,62	G1044	C-DD154-2	AT002
C6-DDNNN-00065-15	63	190	0,5	65	62,5	-9	-5	✓	1,06	G1044	C-DD154-2	AT002

G1044					DN.. 1506..							

C-DD154-2	DCS 12	3,9	DDS 266-02	US 2002-T15P	FLAGT15P/3,5	CN 045-01

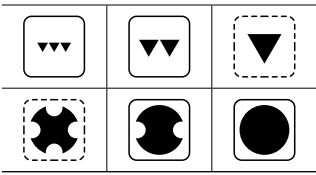
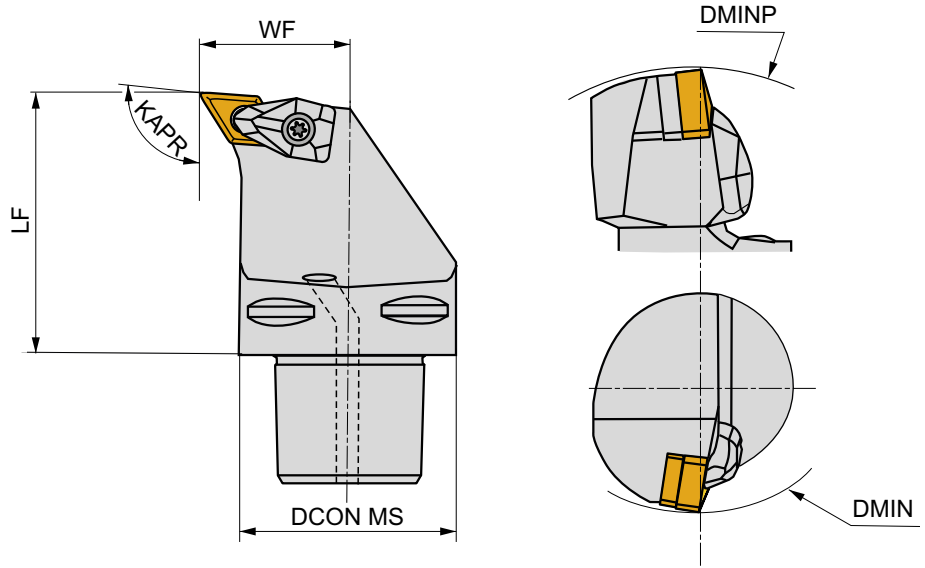
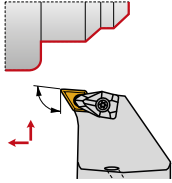
AT002	DN.. 1504..	-	DDS 266-01
AT002	CER DN.N 1506..	DCS 12C4	-
AT002	CER DN.A 1506..	DCS 12C2	-
AT002	CER DN.N 1504..	DCS 12C4	DDS 266-01
AT002	CER DN.A 1504..	DCS 12C2	DDS 266-01

C.-DDUN(RL) EXT

P M K N S H

D

PRAMET



	DCON MS	DMIN	DMINP	WF	LF	KAPR	LAMS	GAMO					
	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]					
C5-DDUNR/L-35060-15	50	110	165	35	60	93	-7	-6	✓	0,80	GI044	C-DD154-3	AT002
C6-DDUNR-45065-15	63	110	190	45	65	93	-7	-6	✓	1,35	GI044	C-DD154-3	AT002

GI044						DN.. 1506..							

C-DD154-3	DCS 12	3,9	DDS 266-02	US 2002-T15P	FLAG T15P/3,5	CN 034-02

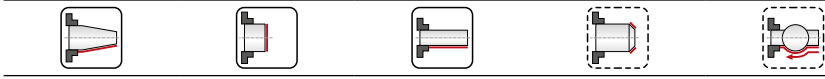
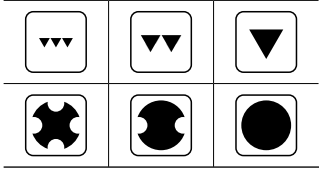
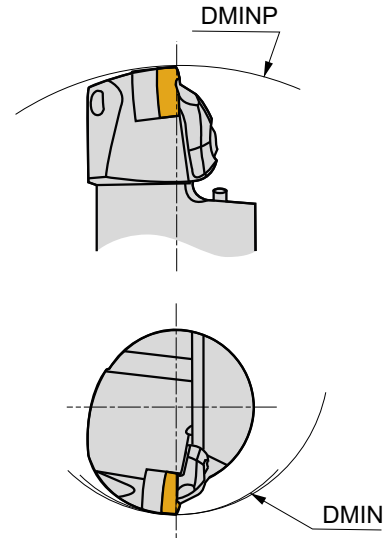
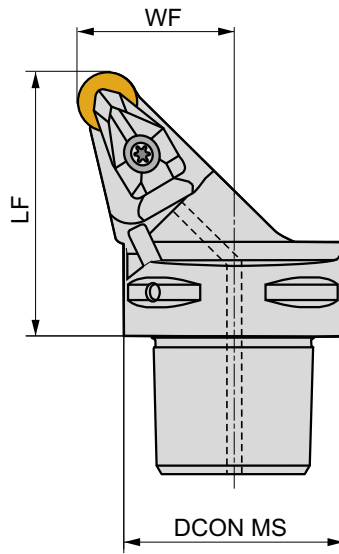
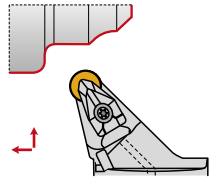
AT002	DN.. 1504..	-	DDS 266-01
AT002	CER DN.N 1506..	DCS 12C4	-
AT002	CER DN.A 1506..	DCS 12C2	-
AT002	CER DN.N 1504..	DCS 12C4	DDS 266-01
AT002	CER DN.A 1504..	DCS 12C2	DDS 266-01

C-DRSN(RL) EXT

P M K

PRAMET

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	DCON MS	DMIN	DMINP	WF	LF	LAMS	GAMO				
	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]				
C6-DRSNR/L-45065-12	63	110	190	45	65	-6	-6	✓	1,11	GI083	C-DR12

GI083	RN.. 120400

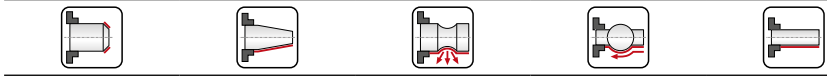
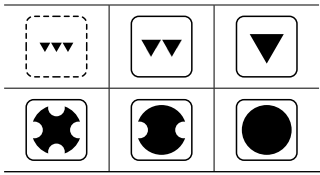
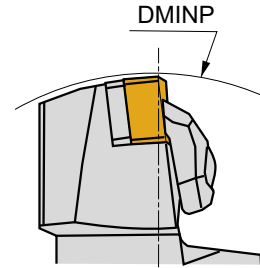
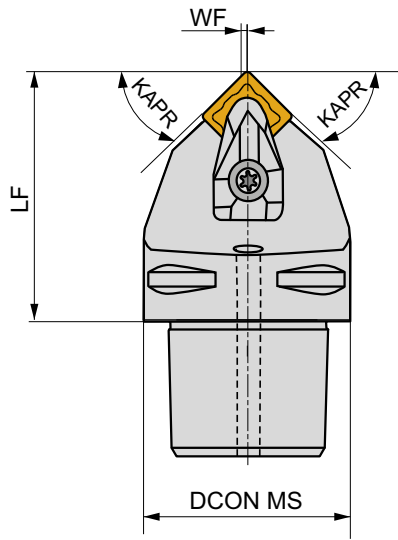
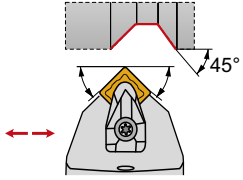
C-DR12	DCS 12	3,9	DRS 155-02	US 2002-T15P	FLAGT15P/3,5	CN 045-01

C.-DSDNN EXT

P M K N S H

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PRAMET



	DCON MS	DMINP	WF	LF	KAPR	LAMS	GAMO					
	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]		kg			
C4-DSDNN-00050-12	40	140	0,3	50	45	-6	-6	✓	0,40	GI029	C-DS12-2	AT003
C5-DSDNN-00060-12	50	165	0,3	60	45	-6	-6	✓	0,78	GI029	C-DS12-2	AT003
C6-DSDNN-00070-19	63	195	0,5	70	45	-6	-6	✓	1,24	GI026	C-DS19	-

GI029	SN.. 1204..
GI026	SN.. 1906..

C-DS12-2	DCS 12	3,9	DSS 425-01	US 2002-T15P	FLAG T15P/3,5	-	CN 045-01
C-DS19	DCS 19	6,4	DSS 425-04	US 2007-T20P	-	LKT20P	CN 045-01

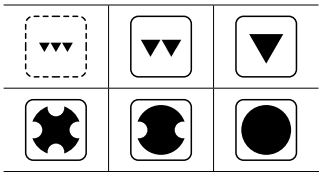
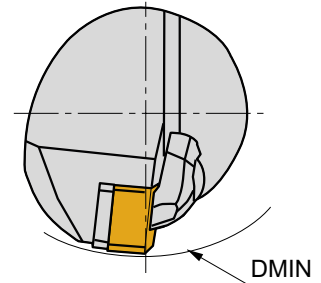
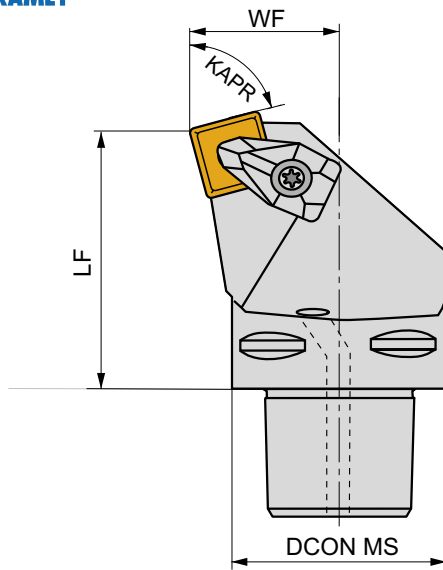
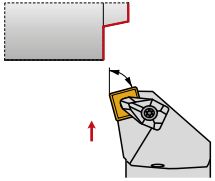
AT003	SN.. 1207..	-	DDS 425-02
AT003	CER SN.N 1204..	DCS 12C4	-
AT003	CER SN.A 1204..	DCS 12C2	-

C.-DSKN(RL) EXT

P M K N S H

D

PRAMET



	DCON MS	DMIN	WF	LF	KAPR	LAMS	GAMO					
	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]					
C4-DSKNR/L-27050-12	40	110	27	50	75	-6	-6	✓	0,47	GI029	C-DS12-1	AT003

GI029	SN.. 1204..

C-DS12-1	DCS 12	3,9	DSS 425-01	US 2002-T15P	FLAGT15P/3,5	CN 034-01

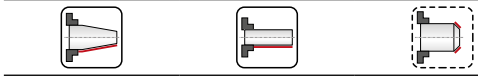
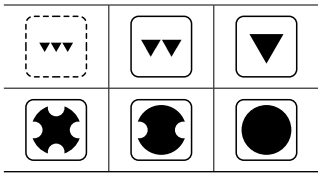
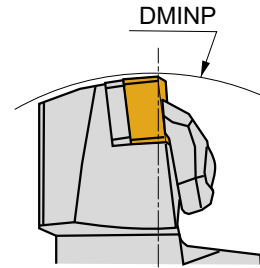
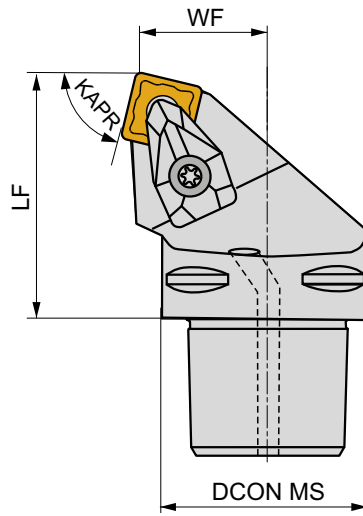
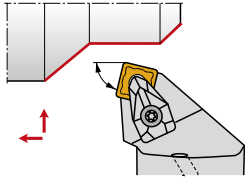
AT003	SN.. 1207..	-	DDS 425-02
AT003	CER SN.N 1204..	DCS 12C4	-
AT003	CER SN.A 1204..	DCS 12C2	-

C.-DSRN(RL) EXT

P M K N S H

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PRAMET



	DCON MS	DMINP	WF	LF	KAPR	LAMS	GAMO		kg			
	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]					
C4-DSRNR/L-22050-12	40	140	22	50	75	-6	-6	✓	0,40	GI029	C-DS12-1	AT003
C6-DSRNR/L-35065-19	63	190	35	65	75	-6	-6	✓	1,30	GI026	C-DS19	-

GI029							SN.. 1204..					
GI026							SN.. 1906..					

C-DS12-1	DCS 12	3,9	DSS 425-01	US 2002-T15P	FLAGT15P/3,5	-	-	-	-	-	-	CN 034-01
C-DS19	DCS 19	6,4	DSS 425-04	US 2007-T20P	-	-	-	-	-	LKT20P	-	CN 045-01

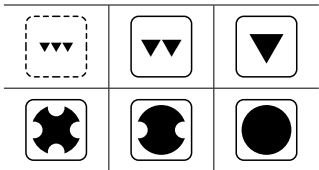
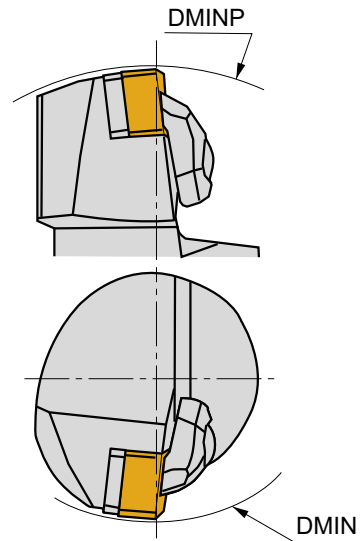
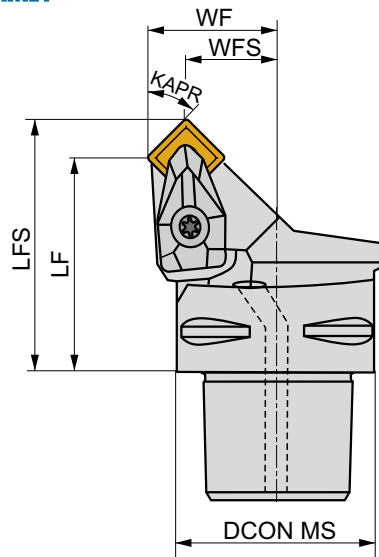
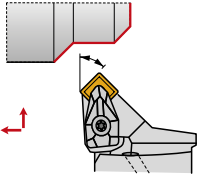
AT003	SN.. 1207..	-	-	-	-	-	-	-	-	-	-	DDS 425-02
AT003	CER SN.N 1204..	-	-	-	-	-	-	-	-	-	-	-
AT003	CER SN.A 1204..	-	-	-	-	-	-	-	-	-	-	-

C.-DSSN(RL) EXT

P M K N S H

D

PRAMET



	DCON MS	DMIN	DMINP	WF	WFS	LF	LFS	KAPR	LAMS	GAMO					
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]					
C4-DSSNR/L-27042-12	40	110	140	27	18,7	42	50,3	45	0	-8	✓	0,36	GI029	C-DS12-1	AT003
C5-DSSNR/L-35052-12	50	110	165	35	26,7	52	60,3	45	0	-8	✓	0,69	GI029	C-DS12-3	AT003

GI029	SN.. 1204..

C-DS12-1	DCS 12	3,9	DSS 425-01	US 2002-T15P	FLAGT15P/3,5	CN 034-01
C-DS12-3	DCS 12	3,9	DSS 425-01	US 2002-T15P	FLAGT15P/3,5	CN 034-01

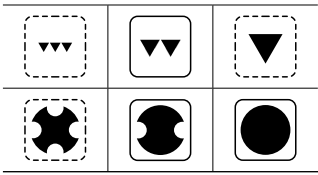
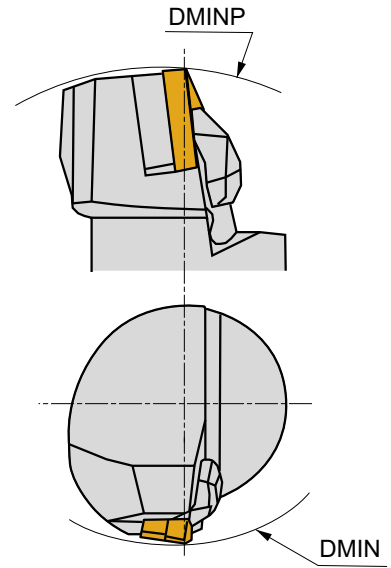
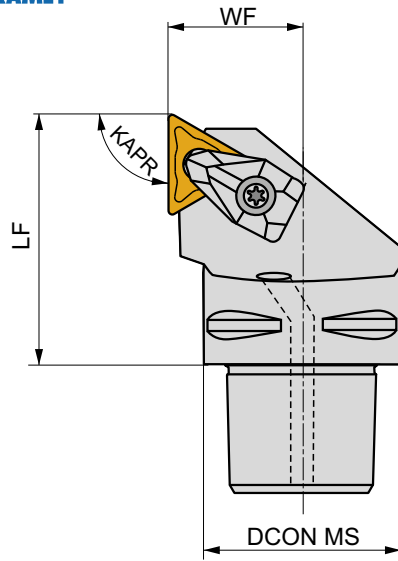
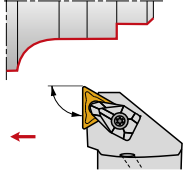
AT003	SN.. 1207..	-	DDS 425-02
AT003	CER SN.N 1204..	DCS 12C4	-
AT003	CER SN.A 1204..	DCS 12C2	-

C.-DTJN(RL) EXT

P M K N S H

D

PRAMET



	DCON MS	DMIN	DMINP	WF	LF	KAPR	LAMS	GAMO				
	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]				
C4-DTJNR/L-27050-16	40	110	140	27	50	93	-6	-6	✓	0,43	GI024	C-DT16
C5-DTJNR/L-35060-16	50	110	165	35	60	93	-6	-6	✓	0,78	GI024	C-DT16

	GI024											
						TN.. 1604..						

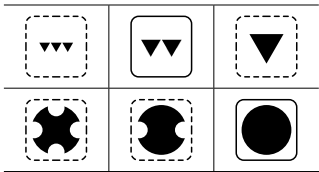
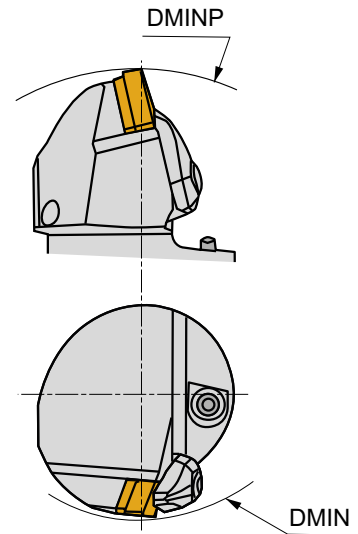
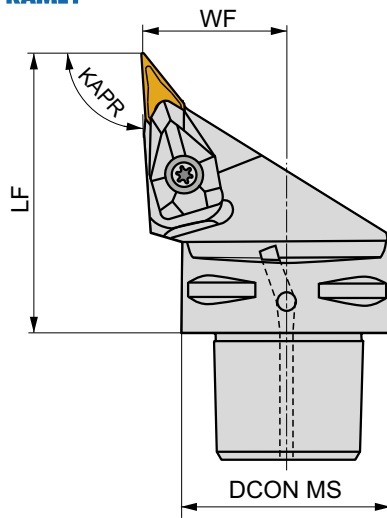
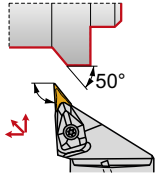
C-DT16	DCS 09	Nm	1,7	US 2004-T09P	US 2004-T09P	US 2004-T09P	US 2004-T09P	US 2004-T09P	US 2004-T09P	US 2004-T09P	US 2004-T09P	CN 045-01

C.-DVJN(RL) EXT

P M K N S H

D

PRAMET



	DCON MS	DMIN	DMINP	WF	LF	KAPR	LAMS	GAMO				
	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]		kg		
C4-DVJNR/L-27062-16	40	60	152	27	62	93	-13	-4	✓	0,45	GI048	C-DV16-1
C5-DVJNR/L-35065-16	50	65	170	35	65	93	-13	-4	✓	0,72	GI048	C-DV16-2
C6-DVJNR/L-45065-16	63	81	190	45	65	93	-13	-4	✓	1,13	GI048	C-DV16-2

GI048		VN.. 1604..	

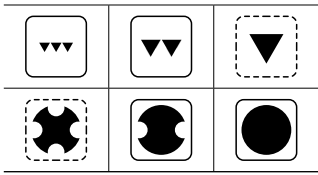
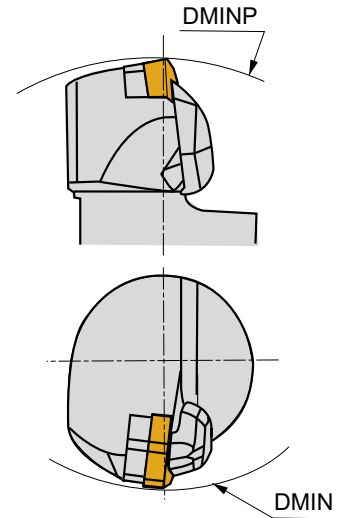
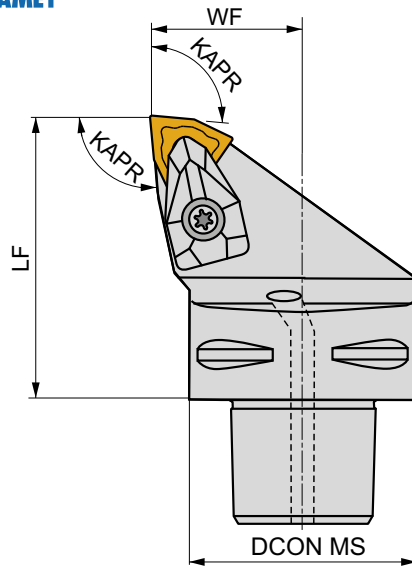
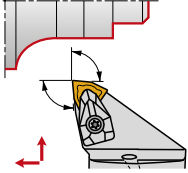
C-DV16-1	DCS 16V	3 Nm	DVS 269-01	US 2009-T15P	FLAGT15P/3,5	CN 034-01
C-DV16-2	DCS 16V	3	DVS 269-01	US 2009-T15P	FLAGT15P/3,5	CN 034-02

C.-DWLN(RL) EXT

P M K N S H

D

PRAMET



	DCON MS	DMIN	DMINP	WF	LF	KAPR	LAMS	GAMO					
	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]					
C4-DWLN(RL)-27050-06	40	60	140	27	50	95	-6	-6	✓	0,43	GI028	C-DW06	-
C4-DWLN(RL)-27050-08	40	110	140	27	50	95	-6	-6	✓	0,43	GI072	C-DW08-1	AT004
C5-DWLN(RL)-35060-08	50	110	165	35	60	95	-6	-6	✓	0,74	GI072	C-DW08-2	AT004
C6-DWLN(RL)-45065-08	63	110	190	45	65	95	-6	-6	✓	1,34	GI072	C-DW08-2	AT004

GI028	WN.. 0604..
GI072	WN.. 0804..

C-DW06	DCS 09	1,7	DWS 328-01	US 2004-T09P	FLAG T09P	CN 034-01
C-DW08-1	DCS 12	3,9	DWS 331-12	US 2002-T15P	FLAG T15P/3,5	CN 034-01
C-DW08-2	DCS 12	3,9	DWS 331-12	US 2002-T15P	FLAG T15P/3,5	CN 045-01

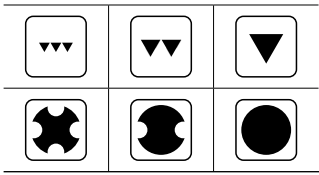
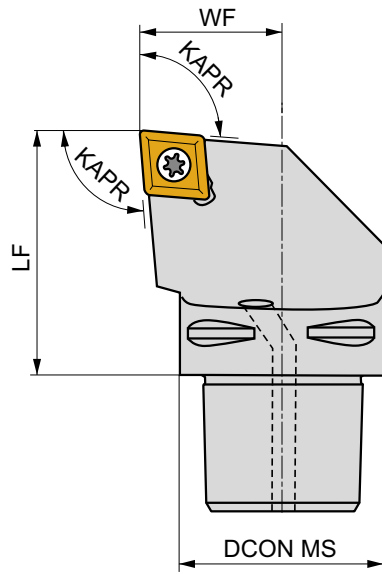
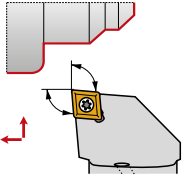
AT004	CER WN.N 0804..	DCS 12C4
AT004	CER WN.A 0804..	DCS 12C2

C.-SCLC(RL) EXT

P M K N S H

S

PRAMET



	DCON MS	WF	LF	KAPR	LAMS	GAMO		kg		
	[mm]	[mm]	[mm]	[°]	[°]	[°]				
C3-SCLCR/L-22040-09	32	22	40	95	0	0	✓	0,24	GI041	C-SC09S
C4-SCLCR/L-27050-09	40	27	50	95	0	0	✓	0,46	GI041	C-SC09S
C4-SCLCR-27050-12	40	27	50	95	0	0	✓	0,45	GI011	C-SC12-1
C5-SCLCR/L-35060-12	50	35	60	95	0	0	✓	0,85	GI011	C-SC12-2

GI041	CC.. 09T3..
GI011	CN.. 1606..

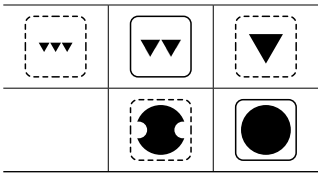
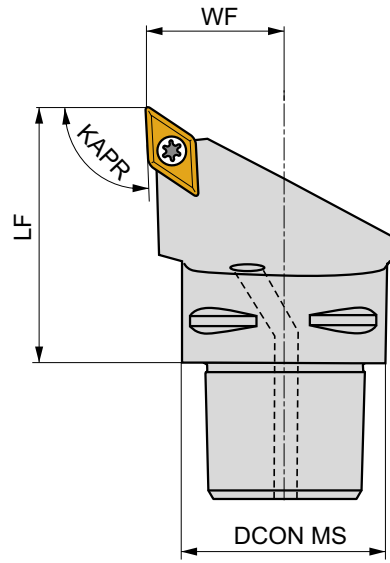
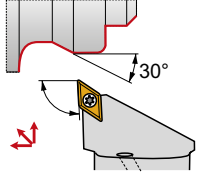
C-SC09S	US 2001-T15P	3,0	M3,5	12,1	SCS 232-01	MS 9001	FLAG T15P/3,5	CN 034-01
C-SC12-1	US 2018-T15P	3,0	M4	14	SCS 232-02	MS 9003	FLAG T15P/4	CN 034-01
C-SC12-2	US 2018-T15P	3,0	M4	14	SCS 232-02	MS 9003	FLAG T15P/4	CN 034-02

C.-SDJC(RL) EXT

P M K N S H

S

PRAMET



	DCON MS	WF	LF	KAPR	LAMS	GAMO				
	[mm]	[mm]	[mm]	[°]	[°]	[°]				
C3-SDJCR/L-22040-11	32	22	40	93	0	0	✓	0,21	GI012	C-SD11V-1
C4-SDJCR/L-27050-11	40	27	50	93	0	0	✓	0,41	GI012	C-SD11V-1
C5-SDJCR/L-35060-11	50	35	60	93	0	0	✓	0,69	GI012	C-SD11V-2

GI012						DC..11T3..				

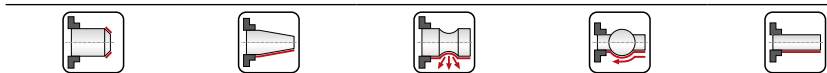
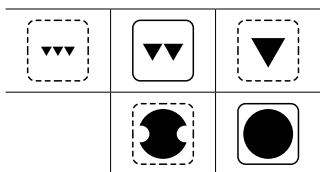
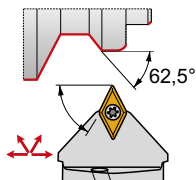
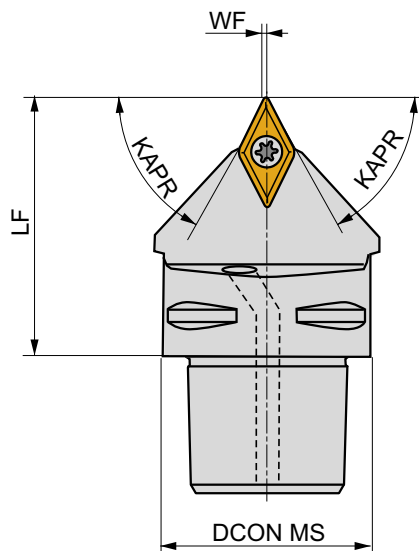
C-SD11V-1	US 2001-T15P	3,0	M3,5	12,1	SDS 263-01	MS 9001	FLAG T15P/3,5	CN 034-01
C-SD11V-2	US 2001-T15P	3,0	M3,5	12,1	SDS 263-01	MS 9001	FLAG T15P/3,5	CN 034-02

C.-SDNCN EXT

P M K N S H

S

PRAMET



	DCON MS	WF	LF	KAPR	LAMS	GAMO				
	[mm]	[mm]	[mm]	[°]	[°]	[°]				
C4-SDNCN-00050-11	40	0,5	50	62,5	0	0	✓	0,38	GI012	C-SD11V-1
C5-SDNCN-00060-11	50	0,5	60	62,5	0	0	✓	0,66	GI012	C-SD11V-2

GI012	DC. 11T3..

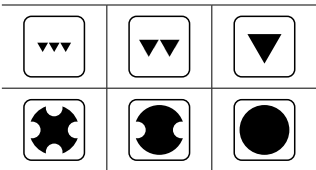
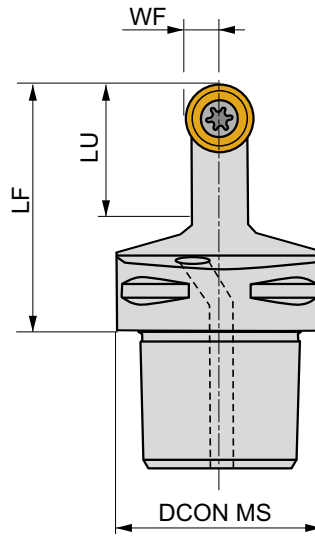
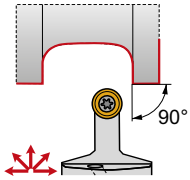
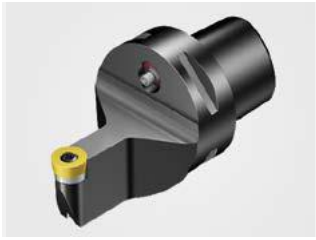
C-SD11V-1	US 2001-T15P	3,0	M3,5	12,1	SDS 263-01	MS 9001	FLAG T15P/3,5	CN 034-01
C-SD11V-2	US 2001-T15P	3,0	M3,5	12,1	SDS 263-01	MS 9001	FLAG T15P/3,5	CN 034-02

C.-SRDCN EXT

P M K N S H

S

PRAMET



	DCON MS	WF	LF	LU	LAMS	GAMO		kg		
	[mm]	[mm]	[mm]	[mm]	[°]	[°]				
C5-SRDCN-00060-10A	50	5	60	25	0	0	✓	0,62	GI013	C-SR10V
C4-SRDCN-00050-12A	40	6	50	28	0	0	✓	0,33	GI014	C-SR12V-1
C5-SRDCN-00060-12A	50	6	60	28	0	0	✓	0,62	GI014	C-SR12V-2

GI013	RC.. 10T3M0
GI014	RC.. 1204M0

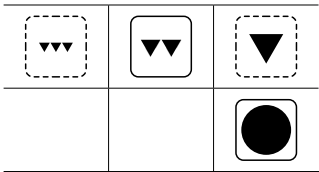
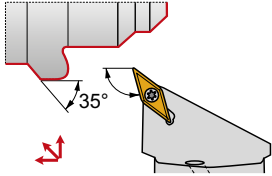
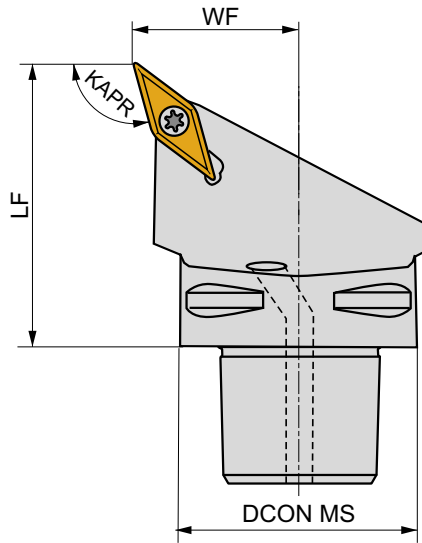
C-SR10V	US 2010-T15P	3,0	M3,5	10,1	SRS 110-01	MS 9001	FLAGT15P/3,5	CN 034-02	
C-SR12V-1	US 2001-T15P	3,0	M3,5	12,1	SRS 110-02	MS 9001	FLAGT15P/3,5	CN 034-01	
C-SR12V-2	US 2001-T15P	3,0	M3,5	12,1	SRS 110-02	MS 9001	FLAGT15P/3,5	CN 034-02	

C.-SVHB(RL) EXT

P M K N S H

S

PRAMET



	DCON MS	WF	LF	KAPR	LAMS	GAMO		kg		
	[mm]	[mm]	[mm]	[°]	[°]	[°]				
C4-SVHBR/L-27050-16	40	27	50	107,5	0	0	✓	0,39	GI017	C-SV16S-1
C5-SVHBR/L-35060-16	50	35	60	107,5	0	0	✓	0,70	GI017	C-SV16S-2
C6-SVHBR/L-45065-16	63	45	65	107,5	0	0	✓	1,12	GI017	C-SV16S-2

GI017		VB.. 1604..		VC.. 1604..

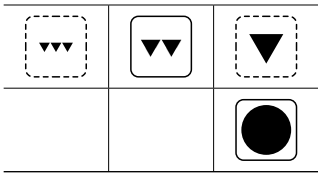
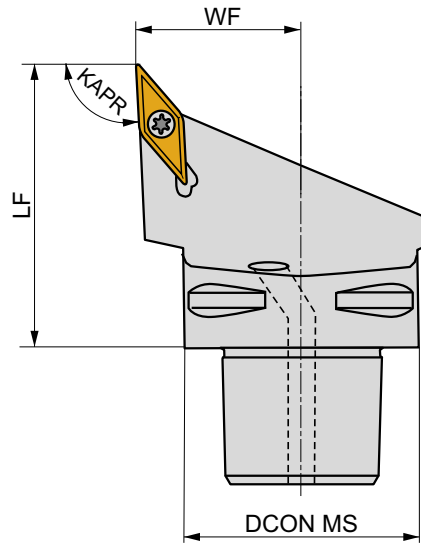
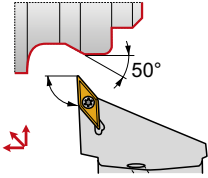
C-SV16S-1	US 2001-T15P	3,0	M3,5	12,1	SVS 270-01	MS 9001	FLAG T15P/3,5	CN 034-01
C-SV16S-2	US 2001-T15P	3,0	M3,5	12,1	SVS 270-01	MS 9001	FLAG T15P/3,5	CN 034-02

C.-SVJB(RL) EXT

P M K N S H

S

PRAMET



	DCON MS	WF	LF	KAPR	LAMS	GAMO		kg		
	[mm]	[mm]	[mm]	[°]	[°]	[°]				
C3-SVJBR-22040-11-B1	32	22	40	93	0	0	✓	0,20	GI194	C-SV11
C4-SVJBR-27050-11-B1	40	27	50	93	0	0	✓	0,38	GI194	C-SV11
C4-SVJBR/L-27050-16	40	27	50	93	0	0	✓	0,35	GI017	C-SV16S-1
C5-SVJBR/L-35060-16	50	35	60	93	0	0	✓	0,64	GI017	C-SV16S-2
C6-SVJBR/L-45065-16	63	45	65	93	0	0	✓	1,11	GI017	C-SV16S-2

GI194	VB.. 1103..	VC.. 1103..
GI017	VB.. 1604..	VC.. 1604..

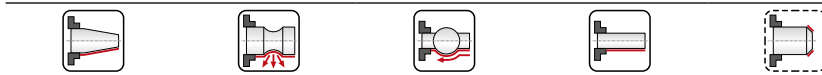
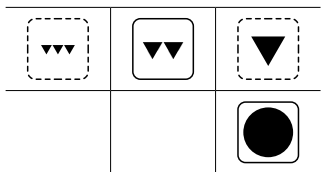
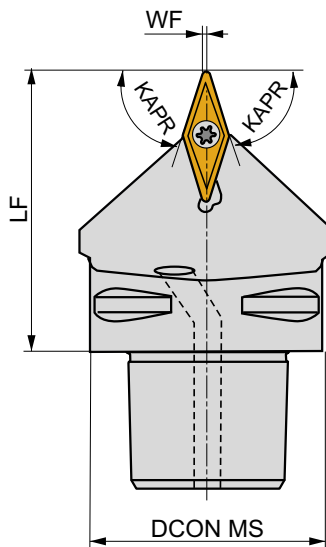
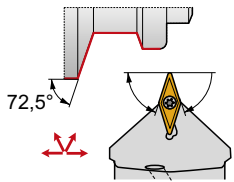
C-SV11	US 2003-T07P	0,8	M2,5	6,5	-	-	FLAGT07P	CN 034-01	
C-SV16S-1	US 2001-T15P	3,0	M3,5	12,1	SVS 270-01	MS 9001	FLAGT15P/3,5	CN 034-01	
C-SV16S-2	US 2001-T15P	3,0	M3,5	12,1	SVS 270-01	MS 9001	FLAGT15P/3,5	CN 034-02	

C.-SVVBN EXT

P M K N S H

S

PRAMET



	DCON MS	WF	LF	KAPR	LAMS	GAMO				
	[mm]	[mm]	[mm]	[°]	[°]	[°]				
C4-SVVBN-00050-16	40	0,6	50	72,5	0	0	✓	0,36	GI017	C-SV16S-1
C5-SVVBN-00060-16	50	0,6	60	72,5	0	0	✓	0,56	GI017	C-SV16S-2
C6-SVVBN-00065-16	63	0,6	65	72,5	0	0	✓	1,00	GI017	C-SV16S-2

GI017		VB.. 1604..		VC.. 1604..

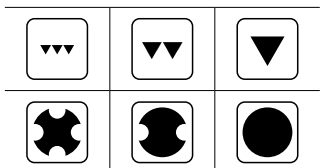
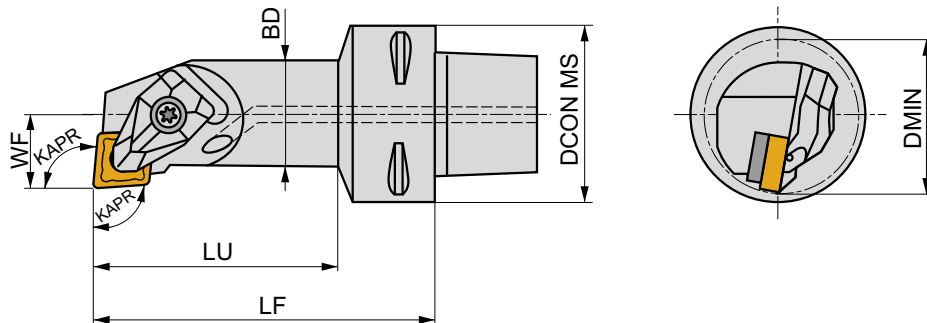
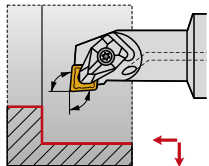
C-SV16S-1	US 2001-T15P	3,0	M3,5	12,1	SVS 270-01	MS 9001	FLAG T15P/3,5	CN 034-01
C-SV16S-2	US 2001-T15P	3,0	M3,5	12,1	SVS 270-01	MS 9001	FLAG T15P/3,5	CN 034-02

C.-DCLN(RL) INT

P M K N S H

D

PRAMET



	DCON MS	DIMN	WF	LF	LU	BD	KAPR	LAMS	GAMO		kg		
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]				
C4-DCLNR-13080-09	40	25	13	80	57	20	95	-14	-6	✓	0,43	G133	DC09
C4-DCLNR/L-17090-12	40	32	17	90	68	25	95	-12	-6	✓	0,53	G1043	DCI12
C5-DCLNR/L-17090-12	50	32	17	90	66	25	95	-12	-6	✓	0,73	G1043	DCI12
C6-DCLNR-17100-12	63	32	17	100	72	25	95	-12	-6	✓	1,14	G1043	DCI12
C6-DCLNR-27140-16	63	50	27	140	114	40	95	-16	-6	✓	1,80	G1050	DC16

G133	CN.. 0903..	
G1043	CN.. 1204..	
G1050	CN.. 1606..	

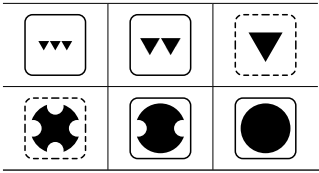
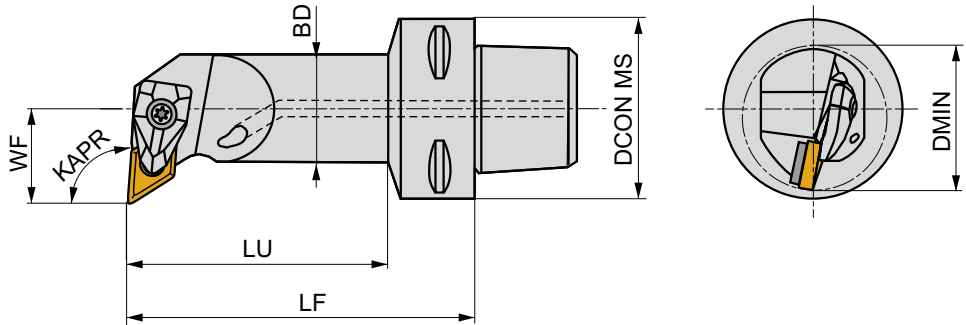
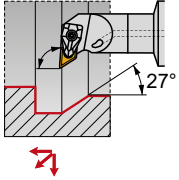
DC09	DCS 09	1,7	DCS 236-04	US 2004-T09P	FLAG T09P	-
DCI12	DCS 12	3,9	DCS 234-01	US 2002-T15P	FLAG T15P/3,5	-
DC16	DCS 16	6,4	DCS 234-03	US 2007-T20P	-	LKT20P

C-DDUN(RL) INT

P M K N S H

D

PRAMET



	DCON MS	DIMN	WF	LF	LU	BD	KAPR	LAMS	GAMO				
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]				
C4-DDUNR/L-17090-11	40	32	17	90	68	25	93	-12	-6	✓	0,51	GI046	DD11

	GI046		DN.. 1104..
--	-------	--	-------------

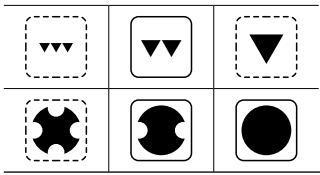
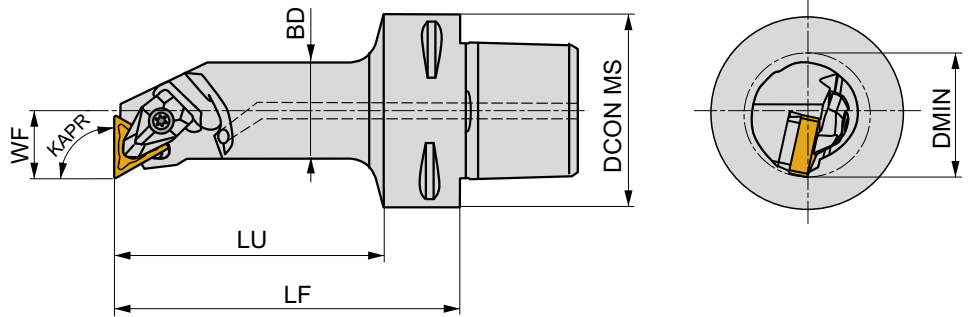
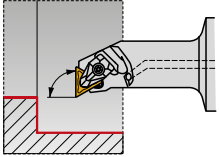
	DD11		DCS 09		1,7		DDS 267-01		US 2004-T09P		FLAG T09P
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C.-DTFN(RL) INT

P M K N S H

D

PRAMET



	DCON MS	DIMN	WF	LF	LU	BD	KAPR	LAMS	GAMO				
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]		kg		
C4-DTFNR-17090-16	40	32	17	90	68	25	91	-12	-6	✓	0,55	GI024	DTI16

	GI024		TN.. 1604..
--	-------	--	-------------

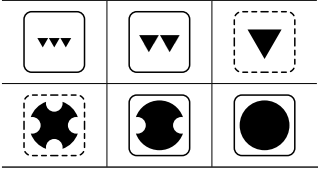
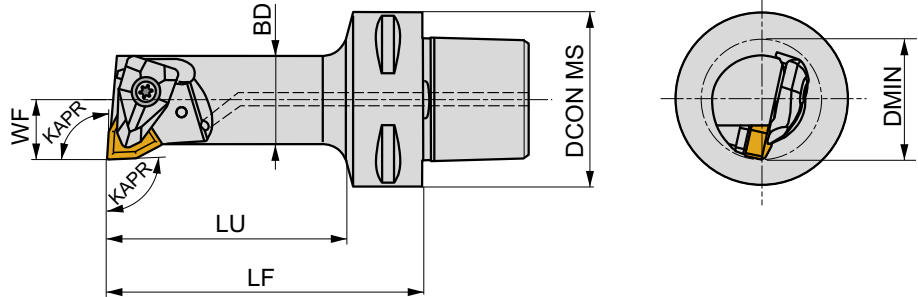
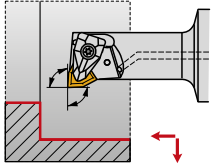
	DTI16		DCS 09		1,7		DTS 316-01		US 2004-T09P		FLAG T09P
--	-------	--	--------	--	-----	--	------------	--	--------------	--	-----------

C.-DWLN(RL) INT

P M K N S H

D

PRAMET



	DCON MS	DIMN	WF	LF	LU	BD	KAPR	LAMS	GAMO				
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]				
C4-DWLN(RL)-13075-06	40	27	13	75	52	20	95	-17	-6	✓	0,42	GI028	DW06
C4-DWLN(RL)-17090-08	40	33	17	90	68	25	95	-12	-6	✓	0,53	GI072	DW108

GI028							WN.. 0604..						
GI072							WN.. 0804..						

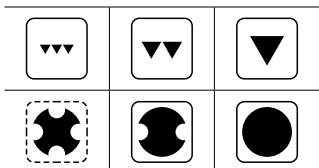
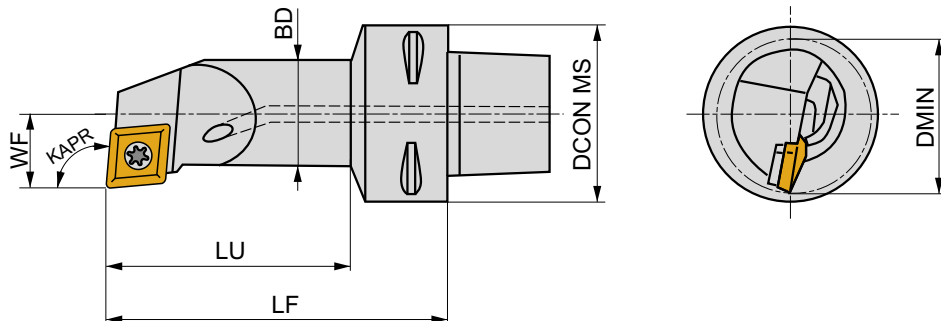
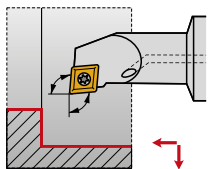
DW06	DCS 09	1,7	DWS 328-01	US 2004-T09P	FLAG T09P
DW108	DCS 12	3,9	DWS 328-02	US 2002-T15P	FLAG T15P/3,5

C.-SCLC(RL) INT

P M K N S H

S

PRAMET



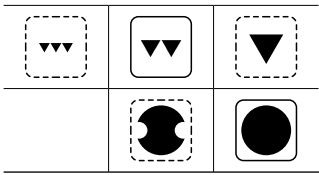
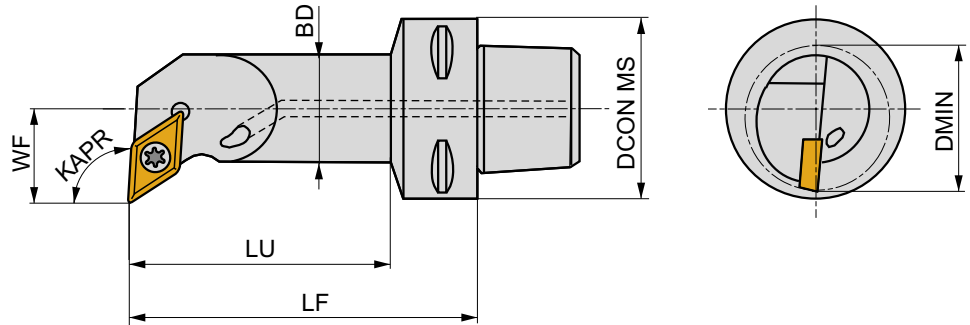
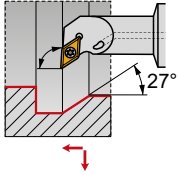
	DCON MS	DMIN	WF	LF	LU	BD	KAPR	LAMS	GAMO		kg		
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]				
C3-SCLCR-11065-09	32	20	11	65	48	16	95	-8,4	0	✓	0,20	G1041	SC09M
C3-SCLCR-13075-09	32	25	13	75	58	20	95	-5,8	0	✓	0,26	G1041	SC09M
C4-SCLCR/L-11070-09	40	20	11	70	47	16	95	-8,4	0	✓	0,36	G1041	SC09M
C4-SCLCR/L-13080-09	40	25	13	80	57	20	95	-5,8	0	✓	0,41	G1041	SC09M
C4-SCLCR-17090-09	40	32	17	90	68	25	95	-3,4	0	✓	0,52	G1041	SC09M
C5-SCLCR/L-11070-09	50	20	11	70	46	16	95	-8,4	0	✓	0,57	G1041	SC09M
C5-SCLCR/L-13080-09	50	25	13	80	56	20	95	-5,8	0	✓	0,65	G1041	SC09M

C.-SDUC(RL) INT

P M K N S H

S

PRAMET



	DCON MS	DMIN	WF	LF	LU	BD	KAPR	LAMS	GAMO				
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]				
C3-SDUCR-11065-07	50	20	11	65	48	16	93	-4,3	0	✓	0,20	GI052	SV11
C4-SDUCR/L-11070-07	40	20	11	70	47	16	93	-4,3	0	✓	0,36	GI052	SV11
C4-SDUCR/L-13080-11	40	25	13	80	57	20	93	-5,8	0	✓	0,41	GI012	SC09M
C4-SDUCR/L-17090-11	40	32	17	90	68	25	93	-3,4	0	✓	0,52	GI012	SV16
C5-SDUCR/L-13080-11	50	25	13	80	56	20	93	-5,8	0	✓	0,65	GI012	SC09M
C5-SDUCR-17090-11	50	32	17	90	67	25	93	-3,4	0	✓	0,69	GI012	SV16

GI052	DC.. 0702..
GI012	DC.. 11T3..

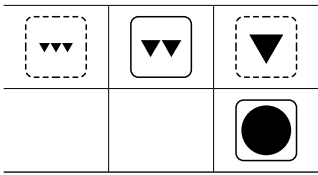
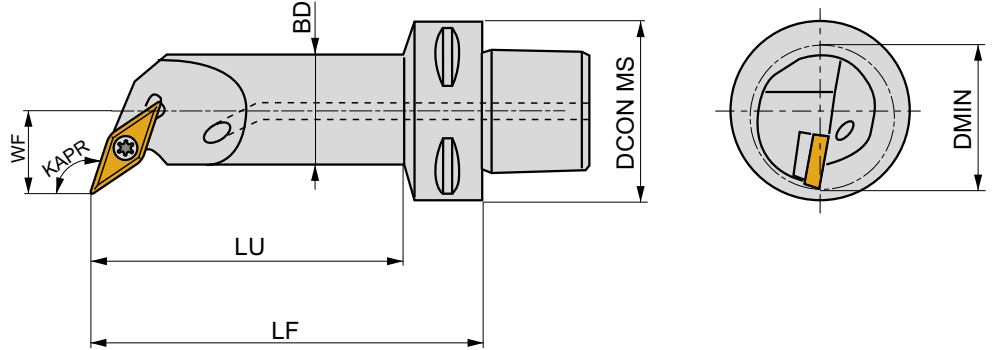
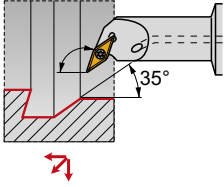
SV11	US 2003-T07P	0,8	M2,5	6,5	FLAGT07P
SC09M	US 2009-T15P	3,0	M3,5	10,1	FLAGT15P/3,5
SV16	US 2010-T15P	3,0	M3,5	10,1	FLAGT15P/3,5

C-SVQB(RL) INT

P M K N S H

S

PRAMET

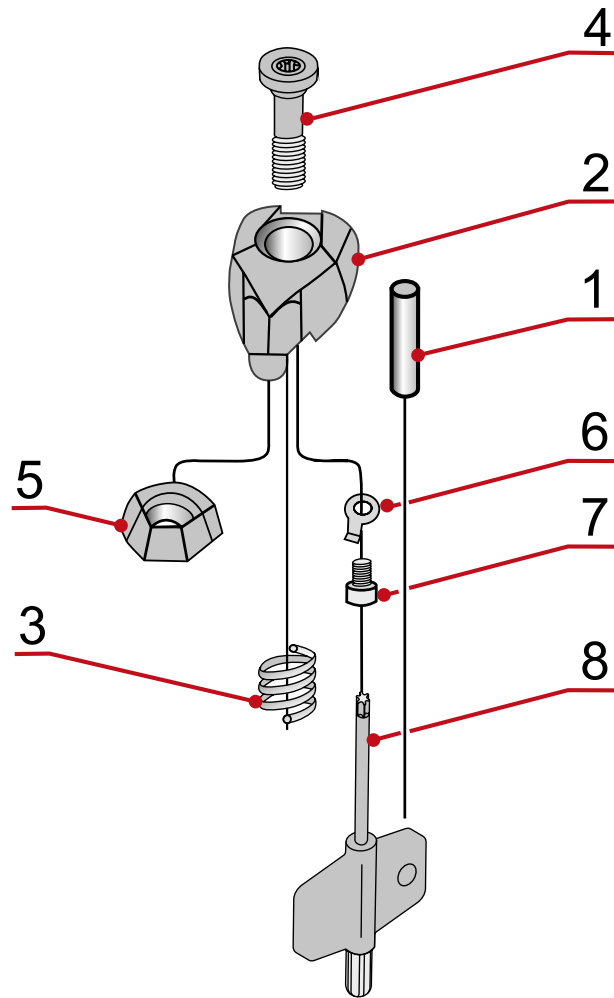












	DCON MS	DMIN	WF	LF	LU	BD	KAPR	LAMS	GAMO				
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	[°]		kg		
C4-SVQBR/L-18090-16	40	33	18	90	68	25	108	-7,2	0	✓	0,50	GI017	SV16
C5-SVQBR/L-18090-16	50	33	18	90	67	25	108	-7,2	0	✓	0,68	GI017	SV16

	GI017												
			VB.. 1604..									VC.. 1604..	

SV16	US 2010-T15P	3,0	M3,5	10,1	FLAGT15P/3,5

KOMPLE SIKMA SETİ



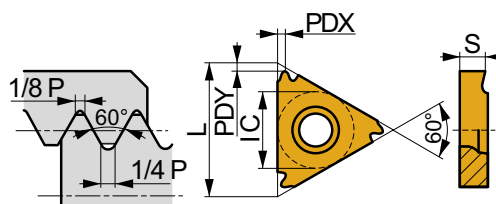
	1	2	3	4		5	6	7	8
									
DCS 09	CP 2655	CD 09	PR 0157	CS 8601-T09P	1,7	-	-	-	-
DCS 12	CP 2607	CD 12	PR 0158	CS 8602-T15P	3,9	-	-	-	-
DCS 16	CP 2607	CD 16	PR 0159	CS 8603-T20P	6,4	-	-	-	-
DCS 19	CP 2607	CD 19	PR 0159	CS 8603-T20P	6,4	-	-	-	-
DCS 25	CP 2607	CD 25	PR 0101	CS 8604-T25P	9,5	-	-	-	-
DCS 16V	CP 2607	CD 16V	PR 0158	CS 8602-T15P	3,9	-	-	-	-
DCS 12C2	CP 2607	CD 12C2	PR 0158	CS 8602-T15P	3,9	PP 3002	H 1201	CS 9701-T07P	FLAG T07P
DCS 16C2	CP 2607	CD 16C2	PR 0159	CS 8603-T20P	6,4	PP 3003	H 1201	CS 9701-T07P	FLAG T07P
DCS 12C4	CP 2607	CD 12C4	PR 0158	CS 8602-T15P	3,9	PP 3002	H 1201	CS 9701-T07P	FLAG T07P
DCS 16C4	CP 2607	CD 16C4	PR 0159	CS 8603-T20P	6,4	PP 3003	H 1201	CS 9701-T07P	FLAG T07P



TN M EXT

PRAMET

	IC	L	S
16	9,525	16,5	3,47



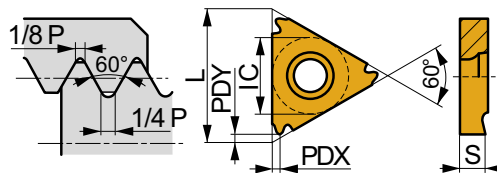
2019
M159

i		ISO		P	M	K	N	S	H	?		RE	FN	FX	CDN	CDX	TP	TPI	PDX	PDY
		TN 16ER050M-AL	HF7				■			●	+++	-	-	-	-	-	0,5	-	0,8	0,8
1		TN 16ER075M-AL	HF7				■			●	+++	-	-	-	-	-	0,75	-	0,8	0,8
		TN 16ER080M-AL	HF7				■			●	+++	-	-	-	-	-	0,8	-	0,6	0,8
F		TN 16ER100M-AL	HF7				■			●	+++	-	-	-	-	-	1	-	0,8	0,8
	10°	TN 16ER125M-AL	HF7				■			●	+++	-	-	-	-	-	1,25	-	0,8	0,8
		TN 16ER150M-AL	HF7				■			●	+++	-	-	-	-	-	1,5	-	0,8	0,8
		TN 16ER175M-AL	HF7				■			●	+++	-	-	-	-	-	1,75	-	1,5	1,2
		TN 16ER200M-AL	HF7				■			●	+++	-	-	-	-	-	2	-	1,5	1,2
		TN 16ER250M-AL	HF7				■			●	+++	-	-	-	-	-	2,5	-	1,5	1,2
		TN 16ER300M-AL	HF7				■			●	+++	-	-	-	-	-	3	-	1,5	1,2

TN M INT

PRAMET

	IC	L	S
16	9,525	16,5	3,47

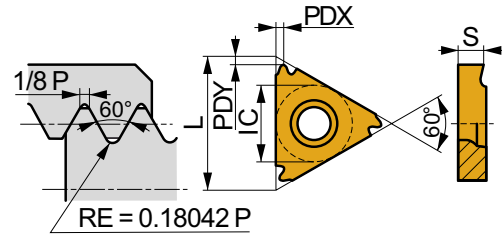


2019
T160

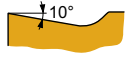
i		ISO		P	M	K	N	S	H	?		RE	FN	FX	CDN	CDX	TP	TPI	PDX	PDY
		TN 16NR050M-AL	HF7				■			●	+++	-	-	-	-	-	0,5	-	0,8	0,8
1		TN 16NR075M-AL	HF7				■			●	+++	-	-	-	-	-	0,75	-	0,8	0,8
		TN 16NR100M-AL	HF7				■			●	+++	-	-	-	-	-	1	-	0,8	0,8
F		TN 16NR125M-AL	HF7				■			●	+++	-	-	-	-	-	1,25	-	0,8	0,8
	15°	TN 16NR150M-AL	HF7				■			●	+++	-	-	-	-	-	1,5	-	0,8	0,8
		TN 16NR175M-AL	HF7				■			●	+++	-	-	-	-	-	1,75	-	1,5	1,2
		TN 16NR200M-AL	HF7				■			●	+++	-	-	-	-	-	2	-	1,5	1,2
		TN 16NR250M-AL	HF7				■			●	+++	-	-	-	-	-	2,5	-	1,5	1,2
		TN 16NR300M-AL	HF7				■			●	+++	-	-	-	-	-	3	-	1,5	1,2

TN MJ EXT

	IC	L	S
16	9,525	16,5	3,47

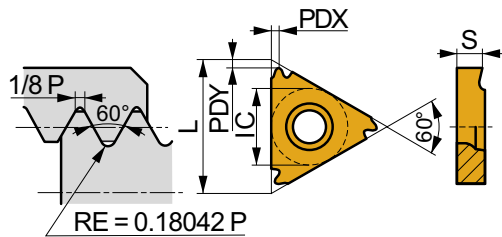


i		ISO		P	M	K	N	S	H	?		RE	FN	FX	CDN	CDX	TP	TPI	PDX	PDY
		TN 16ER100MJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	1	-	0,8	0,8
1		TN 16ER150MJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	1,5	-	0,8	0,8
U																				
E																				

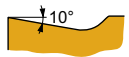


TN UNJ EXT

	IC	L	S
16	9,525	16,5	3,47



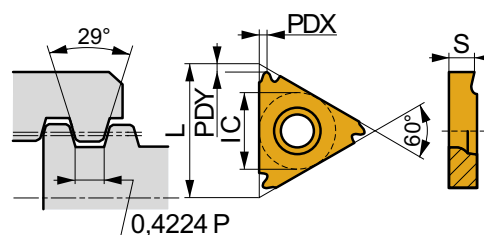
i		ISO		P	M	K	N	S	H	?		RE	FN	FX	CDN	CDX	TP	TPI	PDX	PDY
		TN 16ER320UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	32	0,8	0,8
1		TN 16ER280UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	28	0,8	0,8
		TN 16ER240UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	24	0,8	0,8
U		TN 16ER200UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	20	0,8	0,8
		TN 16ER180UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	18	0,8	0,8
E		TN 16ER160UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	16	1,5	1,2
		TN 16ER120UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	12	1,5	1,2
		TN 16EL320UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	32	0,8	0,8
1		TN 16EL280UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	28	0,8	0,8
		TN 16EL240UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	24	0,8	0,8
U		TN 16EL200UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	20	0,8	0,8
		TN 16EL180UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	18	0,8	0,8
E		TN 16EL160UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	16	1,5	1,2
		TN 16EL120UNJ	T8030	■	■	■		■		●	+++	-	-	-	-	-	-	12	1,5	1,2



TN STACME EXT

PRAMET

	IC	L	S
16	9,525	16,5	3,47

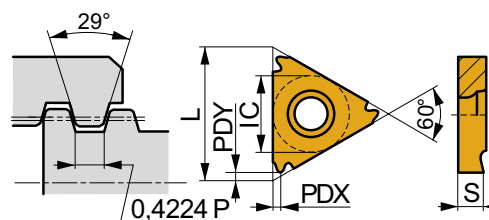


i		ISO		P	M	K	N	S	H	?		RE	FN	FX	CDN	CDX	TP	TPI	PDX	PDY	
		TN 16ER160STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	16	0,8	0,8	
		TN 16ER120STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	12	0,8	0,8
		TN 16ER100STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	10	1,5	1,3
		TN 16ER080STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	8	1,5	1,3
		TN 16ER060STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	6	1,4	1,3
		TN 16EL160STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	16	0,8	0,8	
		TN 16EL120STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	12	0,8	0,8
		TN 16EL100STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	10	1,5	1,3
		TN 16EL080STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	8	1,5	1,3
		TN 16EL060STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	6	1,4	1,3

TN STACME INT

PRAMET


	IC	L	S
16	9,525	16,5	3,47



i		ISO		P	M	K	N	S	H	?		RE	FN	FX	CDN	CDX	TP	TPI	PDX	PDY	
		TN 16NR160STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	16	0,8	0,8	
		TN 16NR120STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	12	0,8	0,8
		TN 16NR100STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	10	1,5	1,3
		TN 16NR080STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	8	1,5	1,3
		TN 16NR060STACME*	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	6	1,3	1,3
		TN 16NL160STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	16	0,8	0,8	
		TN 16NL120STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	12	0,8	0,8
		TN 16NL100STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	10	1,5	1,3
		TN 16NL080STACME	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	8	1,5	1,3
		TN 16NL060STACME*	T8030	■	■	■		☑		●	+++	-	-	-	-	-	-	-	6	1,3	1,3

YENİ ÜRÜNLER LİSTESİ

ISO	
CCMT 09T302E-UR	T6310
CCMT 09T302E-UR	T8330
CNMG 160612E-R	T7335
CNMG 160616E-NMR	T9315
DCMT 11T304E-FM	T9310
DCMT 11T308E-FM	T9310
DNMG 150612E-FM	T9310
TNMG 160412E-FM	T9310
TNMG 160412E-SF	T6310
TNMG 160412E-SF	T9325
TNMG 160412E-SM	T6310
TNMG 220404E-SF	T6310
TNMG 220404E-SF	T7325
TNMG 220404E-SF	T9325
TNMG 220412E-SF	T6310
TNMG 220412E-SF	T7325
TNMG 220412E-SF	T9325
TNMG 220412E-SM	T6310
VBMT 160408E-FM	T9310
VCGT 130302E-NF2	T6310
VCGT 130308E-NF2	T6310
WNMG 060408E-SF	T9315
WNMG 060412E-RM	T9310

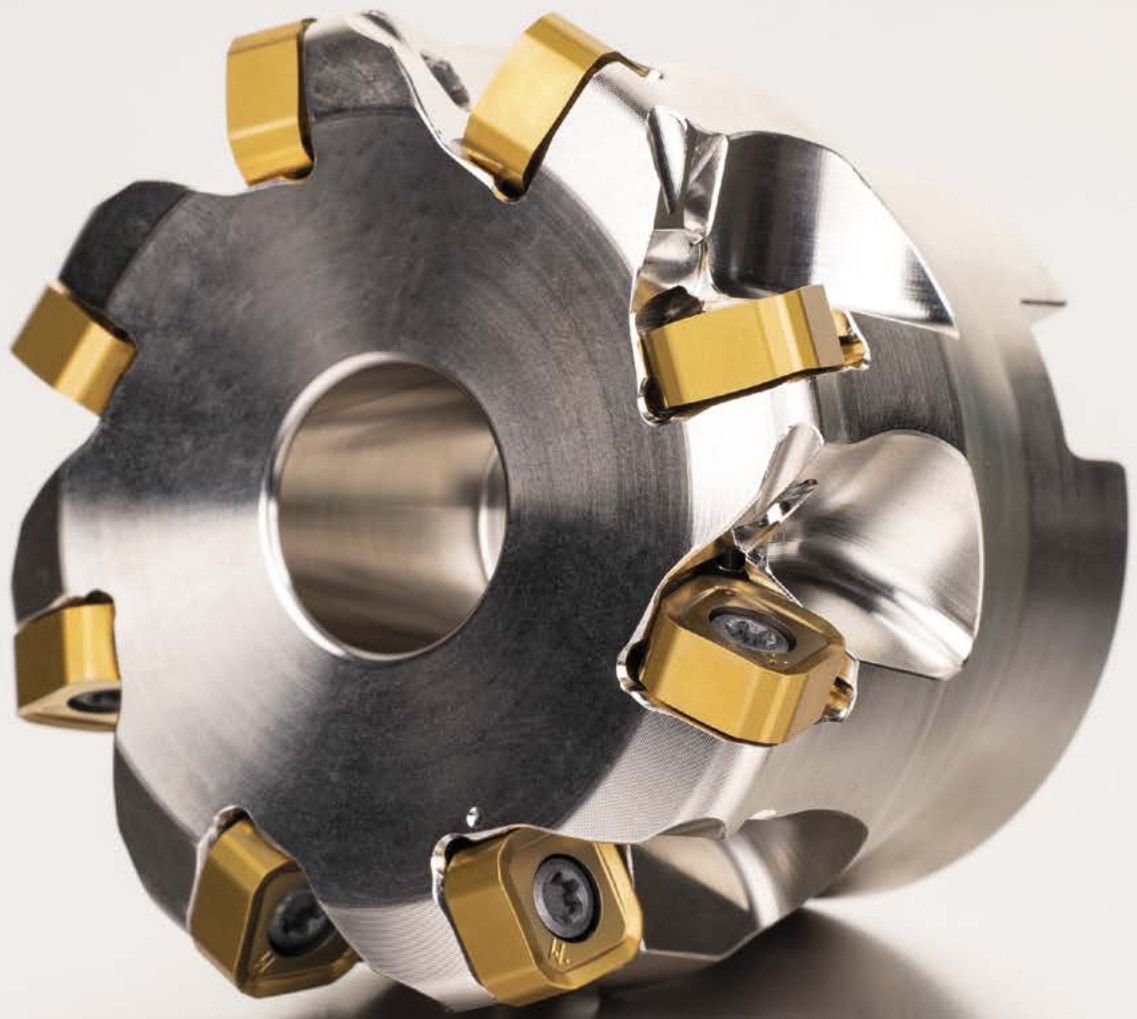
ISO	
TN 16EL080ACME	T8030
TN 16EL100ACME	T8030
TN 16EL120ACME	T8030
TN 16NL080ACME	T8030
TN 16NL100ACME	T8030
TN 16NL120ACME	T8030
TN 16NR100ACME	T8030
TN 16NR120ACME	T8030
TN 22NL060ACME	T8030
TN 16EL110BSPT	T8030
TN 16EL140BSPT	T8030
TN 16EL190BSPT	T8030
TN 16EL280BSPT	T8030
TN 16ER190BSPT	T8030
TN 16ER280BSPT	T8030
TN 16NL110BSPT	T8030
TN 16NL140BSPT	T8030
TN 16NL190BSPT	T8030
TN 16NL280BSPT	T8030
TN 16NR190BSPT	T8030
TN 16NR280BSPT	T8030
TN 16EL350M*	T8030
TN 16ER350M*	T8030

ISO	
TN 16NL350M*	T8030
TN 16NR350M*	T8030
TN 16EL060RD*	T8030
TN 16EL080RD	T8030
TN 16EL100RD	T8030
TN 16NL060RD*	T8030
TN 16NL080RD	T8030
TN 16NL100RD	T8030
TN 16EL240W	T8030
TN 16EL260W	T8030
TN 16ER240W	T8030
TN 16ER260W	T8030
TN 16NL240W	T8030
TN 16NL260W	T8030
TN 16NR240W	T8030
TN 16NR260W	T8030

* Katerler modifiye edilmelidir.

FREZELEME



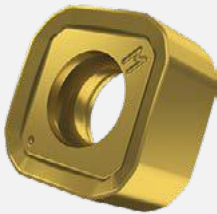


YÜKSEK İLERLEMELİ SEKİZ KÖŞELİ VE 1,7 mm DERİNLİĞE KADAR FREZELEME

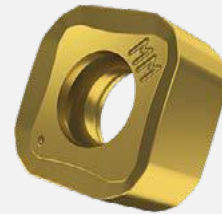
Kalıp ve genel işleme segmentlerinde ekonomik ve yüksek ilerlemeli frezeleme için geniş takım aralığı. Farklı malzemeler ve uygulamalarda yüksek performanslı işleme olanağı veren sekiz kesme kenarına sahip güçlü kesici uçlar.

ÖZELLİKLER VE AVANTAJLAR

- Sekiz kesme kenarına sahip olan çift taraflı kare kesici uçlar
- Eksenel kesme derinliği maks. 1,7 mm
- Güçlü ana kesme kenarı
- Daha pürüzsüz kesme işlemi için tasarlanan MM geometrisi
- Kopya frezeleme, helisel interpolasyon, açılı frezeleme ve yüzey frezeleme için kesiciler
- Kalıp uygulamaları için ara boyutlar içeren 32 - 125mm çap aralığı.
- Parmak frezeler, vidalı ve tarama kafaları
- Tüm takımlar özel bir içten soğutma tasarımına sahiptir
- **Maliyet tasarrufu**- sekiz köşe sayesinde verimli kenar başına maliyet
- **Yüksek verimlilik**- Yüksek ilerleme ile frezelemede artan derinlik sayesinde %50'ye kadar daha yüksek talaş kaldırma oranı
- **Uygulama güvenliği** - Özellikle cep içindeki köşeleri işlerken
- **Gürültüyü engeller**- 5-10xD boylar için uygundur (uzun takım boyu)
- **Eksiksiz kalıp çözümü**- geniş uygulama aralığı, iş parçası, takım çapları ve tipleri

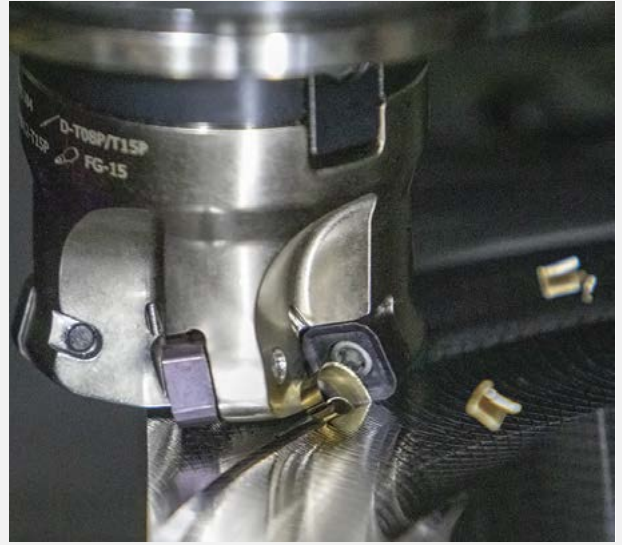
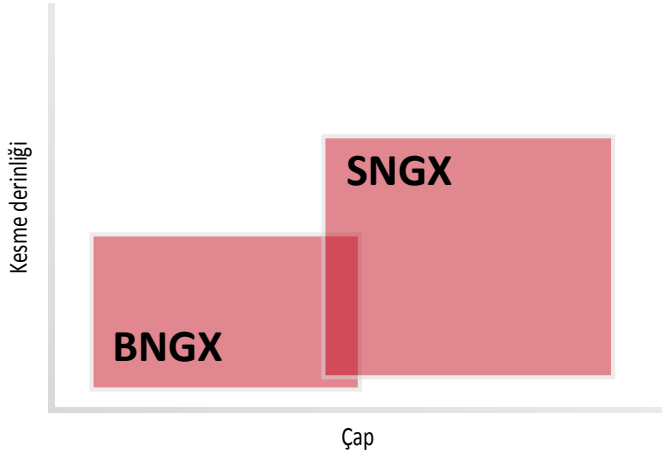
KESİCİ UÇ GEOMETRİLERİ**NEW****M****M GEOMETRİSİ**

- Çelik ve dökme çelik türleri
- İkincil: dökme demir

**NEW****MM****MM GEOMETRİSİ**

- Paslanmaz çelik, yumuşak çelik ve dökme çelikler ve süper alaşımlar

UYGULAMA ALANI



İŞLEME ÖRNEĞİ

Malzeme: Takım çeliği 1.2343 (300 HB)
 Malzeme grubu: P
 İş parçası: Plaka
 Kesici uç: SNGX 110416SR-M:M8310
 Takım: HFC yüzey frezeleme takımı
 50A05R-SMOSN11-C
 Kesme sıvısı: Hayır

İşlem			Yüzey frezeleme
Kesici uç geometrisi			M
Kesme hızı	v_c	m/dak	200
Diş başına ilerleme	f_z	mm	1,2
Dakikadaki ilerleme	f	mm/dak	8520
Eksenel kesme derinliği	a_p	mm	1,5
Radyal kesme derinliği	a_e	mm	35



SSN11

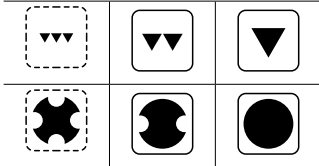
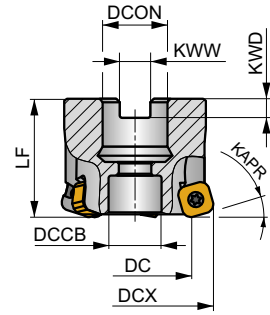
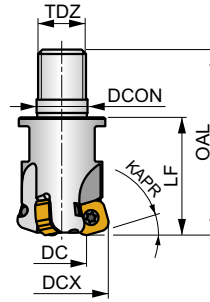
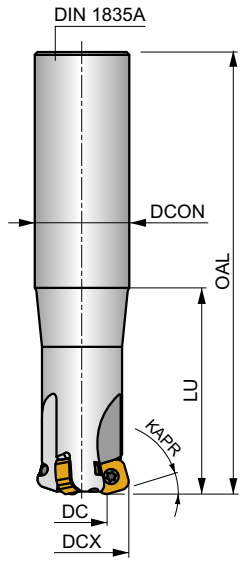
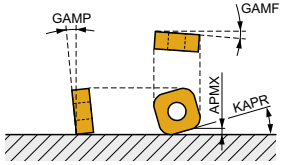
P M K S H

PRAMET

S



KAPR	18°
APMX	1,7 mm



	0,20-0,46
	0,20-0,46



ISO	DCX	DC	OAL	LF	DCON MS	DCCB	LU	TDZ	KWW	KWD	GAMP	GAMF	Coolant		kg	G339	C0314	AC		
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[°]	max.	max.						
	32E3R070A32-SSN11-C	32	18,3	150	-	32	-	70	-	-	-10	-11,5	3	-	17500	✓	0,69	G339	C0314	-
	32E3R120A32-SSN11-C	32	18,3	200	-	32	-	120	-	-	-10	-11,5	3	-	17500	✓	0,89	G339	C0314	-
	35E3R050A32-SSN11-C	35	21,2	200	-	32	-	50	-	-	-10	-11	3	-	16800	✓	1,05	G339	C0314	-
	32E3R040M16-SSN11-C	32	18,3	63	40	17	-	M16	-	-	-10	-11,5	3	-	-	✓	0,17	G339	C0314	-
	35E3R040M16-SSN11-C	35	21,2	63	40	17	-	M16	-	-	-10	-11	3	-	-	✓	0,19	G339	C0314	-
	40E4R043M16-SSN11-C	40	26,2	66	43	17	-	M16	-	-	-10	-10,5	4	✓	-	✓	0,23	G339	C0314	-
	40A04R-SMOSN11-C	40	26,2	-	40	16	12,4	-	8,4	5,6	-10	-10,5	4	✓	15700	✓	0,19	G339	C0316	-
	42A04R-SMOSN11-C	42	28,2	-	40	16	14,1	-	8,4	5,6	-10	-10,5	4	✓	15300	✓	0,21	G339	C0318	-
	50A05R-SMOSN11-C	50	36,1	-	40	22	18,1	-	10,4	6,3	-10	-10	5	✓	14000	✓	0,31	G339	C0320	-
	50A06R-SMOSN11-C	50	36,1	-	40	22	18,1	-	10,4	6,3	-10	-10	6	✓	14000	✓	0,31	G339	C0320	-
	52A05R-SMOSN11-C	52	38,1	-	40	22	18,1	-	10,4	6,3	-10	-10	5	✓	13800	✓	0,34	G339	C0320	-
	52A06R-SMOSN11-C	52	38,1	-	40	22	18,1	-	10,4	6,3	-10	-10	6	✓	13800	✓	0,33	G339	C0320	-
	63A06R-SMOSN11-C	63	49,1	-	40	22	18,1	-	10,4	6,3	-10	-10	6	✓	12500	✓	0,46	G339	C0320	-
	63A08R-SMOSN11-C	63	49,1	-	40	22	18,1	-	10,4	6,3	-10	-10	8	✓	12500	✓	0,47	G339	C0320	-
	66A06R-SMOSN11-C	66	52,1	-	50	27	18,1	-	12,4	7	-10	-10	6	✓	12200	✓	0,74	G339	C0322	-
	66A08R-SMOSN11-C	66	52,1	-	50	27	18,1	-	12,4	7	-10	-10	8	✓	12200	✓	0,75	G339	C0322	-
	80A07R-SMOSN11-C	80	66,1	-	50	27	38,1	-	12,4	7	-10	-10	7	✓	11100	✓	0,95	G339	C0324	AC001
	80A09R-SMOSN11-C	80	66,1	-	50	27	38,1	-	12,4	7	-10	-10	9	✓	11100	✓	0,93	G339	C0324	AC001
	100A08R-SMOSN11-C	100	86,1	-	50	32	45,1	-	14,4	8	-10	-10	8	✓	9900	✓	1,63	G339	C0324	AC002
	115A08R-SMOSN11-C	115	101,1	-	50	32	45,1	-	14,4	8	-10	-10	8	✓	9200	✓	2,09	G339	C0324	AC002
	125A08R-SMOSN11-C	125	111,1	-	63	40	56,1	-	16,4	9	-10	-10	8	✓	8900	✓	3,16	G339	C0324	AC003



G339



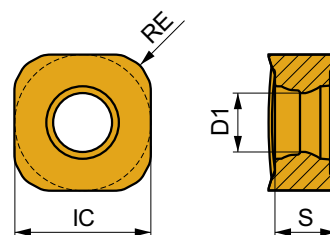
SNGX 1104..

CO314	US 44012-T15P	3,5	M4	12	-	-	Flag T15P	-	-
CO316	US 44012-T15P	3,5	M4	12	D-T08P/T15P	FG-15	-	HCS0840C	-
CO318	US 44012-T15P	3,5	M4	12	D-T08P/T15P	FG-15	-	HS90835	-
CO320	US 44012-T15P	3,5	M4	12	D-T08P/T15P	FG-15	-	HS1030C	-
CO322	US 44012-T15P	3,5	M4	12	D-T08P/T15P	FG-15	-	HS1230C	-
CO324	US 44012-T15P	3,5	M4	12	D-T08P/T15P	FG-15	-	-	-

AC001	KS 1230	K.FMH27
AC002	KS 1635	K.FMH32
AC003	KS 2040	K.FMH40

SNGX 11

	IC	D1	S
1104	10,6	4,56	4,76



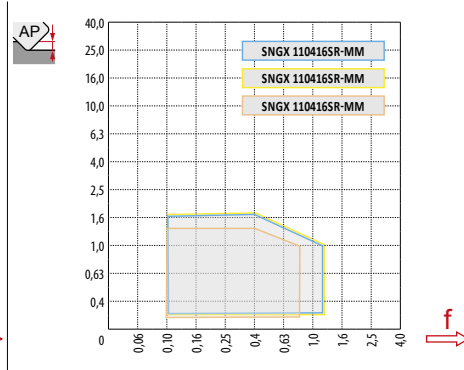
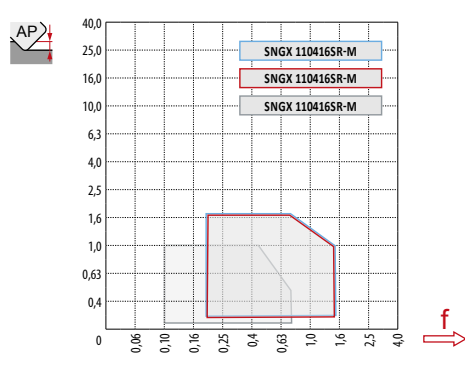
			P	M	K	N	S	H			RE	FN	FX	APMN	APMX		
 	SNGX 110416SR-M		M9325	■					⚙	---	1,6	0,2	1,13	0,2	1,7		
			M9340	■						⚙	---	1,6	0,2	1,13	0,2	1,7	
			M8310	■	▣				▣		⚙	-	1,6	0,2	1,5	0,2	1,7
			M8330	■	▣				▣		⚙	-	1,6	0,2	1,5	0,2	1,7
			M8340	■	▣				▣		⚙	+/-	1,6	0,2	1,5	0,2	1,7
 	SNGX 110416SR-MM		M9340	▣	■			■	⚙	---	1,6	0,1	0,9	0,2	1,7		
			M6330	▣	■			■		⚙	-	1,6	0,1	1,2	0,2	1,7	
			M8340	▣	■			■		⚙	+/-	1,6	0,1	1,2	0,2	1,7	
			M8345	▣	■			■		⚙	+/-	1,6	0,1	1,2	0,2	1,7	
			8215	■	▣				▣		⚙	-	1,6	0,2	1,5	0,2	1,7

ISO	FN	FX	M9325	M9340	M6330	M8310	M8330	M8340	M8345	8215	
P	●	0,20	1,50	335	299	230	290	273	246	193	275
	●	0,20	1,25	308	275	212	267	251	227	177	253
	⚙	0,20	1,00	265	236	182	229	215	195	152	217
M	●	0,10	1,20	-	175	163	-	-	143	113	-
	●	0,10	1,00	-	161	150	-	-	131	104	-
	⚙	0,10	0,80	-	138	128	-	-	113	89	-
K	●	0,20	1,50	-	-	-	275	258	238	-	260
	●	0,20	1,25	-	-	-	253	237	219	-	239
	⚙	0,20	1,00	-	-	-	217	203	188	-	205
S	●	0,10	0,84	-	80	73	-	-	63	50	-
	●	0,10	0,70	-	74	67	-	-	58	46	-
	⚙	0,10	0,60	-	63	57	-	-	49	40	-
H	●	0,10	0,75	-	-	-	58	53	-	-	53
	●	0,10	0,60	-	-	-	53	48	-	-	48
	⚙	0,10	0,45	-	-	-	45	41	-	-	41



a_e DCX	0,05	0,10	0,15	0,20	0,25	0,30	0,40	0,50	0,60	0,70	0,75	0,80	0,90	1,00
	1,48	1,35	1,27	1,22	1,19	1,16	1,11	1,08	1,05	1,03	1,02	1,01	0,99	0,98
	2,87	2,05	1,69	1,48	1,33	1,23	1,09	0,75	0,94	0,90	0,89	0,88	0,88	1,00
	0,64	0,64	0,64	0,64	0,64	0,65	0,65	0,67	0,68	0,71	0,72	0,74	0,79	1,00

	SNGX 11 - M	SNGX 11 - MM
RE	1,6	1,6
BS	-	-



HFC

		0,00	0,20	0,40	0,60	0,80	1,00	1,10	1,20	1,30	1,40	1,50	1,60	1,70
32		18,30	19,53	20,76	21,99	23,22	24,46	25,07	25,69	26,30	26,92	27,53	28,15	28,76
35		21,20	22,43	23,66	24,89	26,12	27,36	27,97	28,59	29,20	29,82	30,43	31,05	31,66
40		26,20	27,43	28,66	29,89	31,12	32,36	32,97	33,59	34,20	34,82	35,43	36,05	36,66
42		28,20	29,43	30,66	31,89	33,12	34,36	34,97	35,59	36,20	36,82	37,43	38,05	38,66
50		36,10	37,33	38,56	39,79	41,02	42,26	42,87	43,49	44,10	44,72	45,33	45,95	46,56
52		38,10	39,33	40,56	41,79	43,02	44,26	44,87	45,49	46,10	46,72	47,33	47,95	48,56
63		49,10	50,33	51,56	52,79	54,02	55,26	55,87	56,49	57,10	57,72	58,33	58,95	59,56
66		52,10	53,33	54,56	55,79	57,02	58,26	58,87	59,49	60,10	60,72	61,33	61,95	62,56
80		66,10	67,33	68,56	69,79	71,02	72,26	72,87	73,49	74,10	74,72	75,33	75,95	76,56
100		86,10	87,33	88,56	89,79	91,02	92,26	92,87	93,49	94,10	94,72	95,33	95,95	96,56
115		101,10	102,33	103,56	104,79	106,02	107,26	107,87	108,49	109,10	109,72	110,33	110,95	111,56
125		111,10	112,33	113,56	114,79	116,02	117,26	117,87	118,49	119,10	119,72	120,33	120,95	121,56
		-	0,20	0,40	0,60	0,80	1,00	1,10	1,20	1,30	1,40	1,50	1,60	1,70
		-	1,37	0,98	0,81	0,71	0,64	0,62	0,59	0,58	0,56	0,54	0,53	0,52



SNGX

DCX	max	FX
32	5,0	0,25
35	5,0	0,25
40	5,2	0,30
42	5,2	0,30
50	5,3	0,30
52	5,3	0,30
63	5,4	0,30
66	5,4	0,30
80	5,5	0,35
100	5,5	0,35
115	5,5	0,35
125	5,5	0,35



SNGX (HFC)

DCX	RPMX	APMX/I
32	0,8	1,4/100
35	0,8	1,4/100
40	0,7	1,2/100
42	0,7	1,2/100
50	0,5	0,9/100
52	0,5	0,9/100
63	0,4	0,7/100
66	0,4	0,7/100
80	0,3	0,5/100
100	0,2	0,3/100
115	0,2	0,3/100
125	0,2	0,3/100



SNGX (HFC)

DCX	AP	FX
32	0,2	0,3
35	0,2	0,3
40	0,2	0,3
42	0,2	0,3
50	0,3	0,4
52	0,3	0,4
63	0,3	0,4
66	0,3	0,4
80	0,3	0,4
100	0,3	0,4
115	0,3	0,4
125	0,3	0,4



DCX	µm	3	5	10	15	20	30	40	50	60	80	100
32		0,620	0,800	1,131	1,386	1,600	1,960	2,263	2,530	2,771	3,200	3,578
35		0,648	0,837	1,183	1,449	1,673	2,049	2,366	2,646	2,898	3,347	3,742
40		0,693	0,894	1,265	1,549	1,789	2,191	2,530	2,828	3,098	3,578	4,000
42		0,710	0,917	1,296	1,587	1,833	2,245	2,592	2,898	3,175	3,666	4,099
50		0,775	1,000	1,414	1,732	2,000	2,449	2,828	3,162	3,464	4,000	4,472
52		0,790	1,020	1,442	1,766	2,040	2,498	2,884	3,225	3,533	4,079	4,561
63		0,869	1,122	1,587	1,944	2,245	2,750	3,175	3,550	3,888	4,490	5,020
66		0,890	1,149	1,625	1,990	2,298	2,814	3,250	3,633	3,980	4,596	5,138
80		0,980	1,265	1,789	2,191	2,530	3,098	3,578	4,000	4,382	5,060	5,657
100		1,095	1,414	2,000	2,449	2,828	3,464	4,000	4,472	4,899	5,657	6,325
115		1,175	1,517	2,145	2,627	3,033	3,715	4,290	4,796	5,254	6,066	6,782
125		1,225	1,581	2,236	2,739	3,162	3,873	4,472	5,000	5,477	6,325	7,071



SNGX

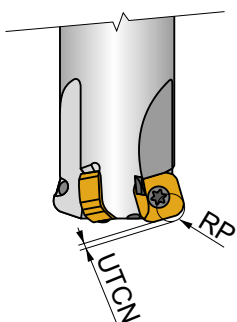
AP	0,2	0,5	1,0	1,7
FX	1,20	1,00	0,50	0,25



SNGX (HFC)

DCX	d _{min}	d _{max}	S _{max} d _{min}	S _{max} d _{max}
32	48,0	63,8	0,7	1,4
35	54,0	69,8	0,8	1,5
40	64,0	79,8	0,9	1,5
42	68,0	83,8	1,0	1,6
50	84,0	99,8	0,9	1,4
52	88,0	103,8	1,0	1,4
63	109,0	125,8	1,0	1,4
66	115,0	131,8	1,1	1,4
80	143,0	159,8	1,0	1,3
100	183,0	199,8	0,9	1,1
115	213,0	229,8	1,1	1,3
125	233,0	249,8	1,2	1,4

i



SNGX	RP	UTCN
	[mm]	[mm]
SNGX 110416	4,6	0,92

TİTREŞİME DUYARLI İŞLEME İÇİN YENİ F GEOMETRİSİ

Büyük beğeni kazanan verimli freze takımları ürün ailemiz östenitik paslanmaz çeliklerde ve düşük karbonlu çeliklerde hafif işleme olanağı sağlayan yeni F geometri ile zenginleştirildi.

ÖZELLİKLER VE AVANTAJLAR

- Yüksek pozitif geometri
- Dar çevresel kenar
- Kenar honlamada azalma
- Helisel kesme kenarları
- Birincil olarak okenar ve kanal frezeleme, açılı frezeleme ve helisel interpolasyon, dalma ve aşamalı dalma için kullanılır
- İkincil olarak yüzey ve kopya frezelemede kullanılır
- **Uzun takım boylarında işleme olanağı sunar** - düşük titreşim ve gürültü
- **İşleme sertleşmesini önler**– M geometrisine kıyasla %20 daha düşük kesme kuvveti
- **Daha iyi finiş yüzey işleme**– rahat işleme sayesinde işlenen duvarda çapak kalmaz
- **Düşük talaş tahliye kuvveti**- özellikle kanal frezeleme için
- **Yüksek dayanıklılık** – özellikle östenitik paslanmaz çelik için



KESİCİ UÇ GEOMETRİLERİ

**NEW**

F

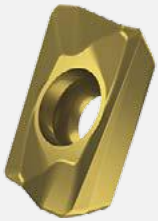
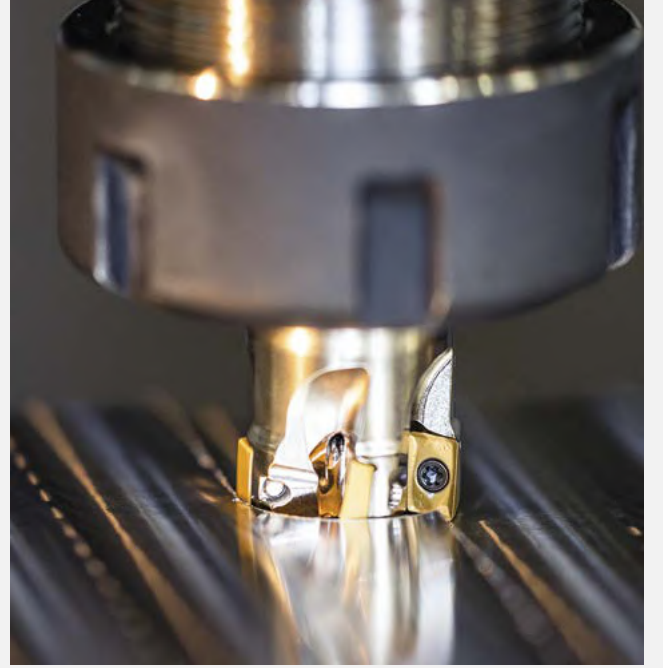
F GEOMETRİSİ

- Titreşime duyarlı parçalar için ilk tercih
- Östenitik paslanmaz çelikler ve düşük karbonlu çelikler

İŞLEME ÖRNEĞİ

Malzeme:	316L
Malzeme grubu:	M
Kesici uç:	ADMX070204SR-F:M6330
Takım:	20A4R020A20-SAD07D-C
Kesme sıvısı:	Hayır

İşlem		Kenar frezeleme	
Kesme hızı	V_c	m/dak	210
Dış başına ilerleme	f_z	mm	0,06
Dakikadaki ilerleme	f	mm/dak	201
Eksenel kesme derinliği	a_p	mm	2
Radyal kesme derinliği	a_e	mm	12
Pürüzlülük	R_a	μm	0,42

**M****M GEOMETRİSİ**

- İlk tercih
- Çelik, paslanmaz çelik ve dökme demir
- Yeni 1,2 ve 1,6 radyus

**FA****FA GEOMETRİSİ**

- Demir içermeyen malzemeler

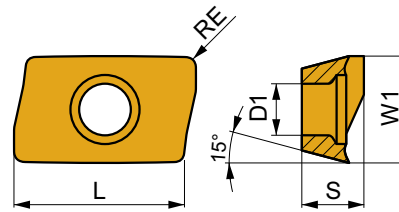
**HF****HF GEOMETRİSİ**

- Yüksek ilerlemeli frezeleme

ADMX 07



	W1	D1	L	S
0702	4,482	2,20	6,95	2,48

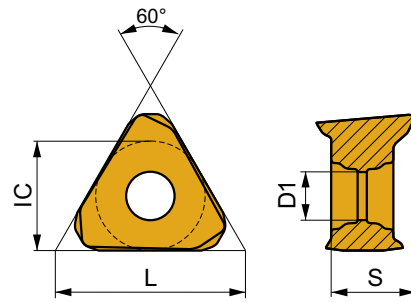


i	↖	ISO	[Texture]	P	M	K	N	S	H	[?]	[Drop]	RE	FN	FX	APMN	APMX
 		ADMX 070202SR-F	M8330	■	▣	▣	▣	▣		●	-	0,2	0,02	0,10	0,1	5,0
			M8340	■	■	▣		▣		●	+/-	0,2	0,02	0,10	0,1	5,0
		ADMX 070204SR-F	M9340	▣	■			▣		●	---	0,4	0,02	0,08	0,1	5,0
			M6330	▣	■			▣		●	-	0,4	0,02	0,10	0,1	5,0
			M8310	■	▣	▣		▣		●	-	0,4	0,02	0,10	0,1	5,0
			M8330	■	▣	▣	▣	▣		●	-	0,4	0,02	0,10	0,1	5,0
		ADMX 070208SR-F	M8340	■	■	▣		▣		●	+/-	0,4	0,02	0,10	0,1	5,0
			M6330	▣	■			▣		●	-	0,8	0,02	0,10	0,1	5,0
			M8310	■	▣	▣		▣		●	-	0,8	0,02	0,10	0,1	5,0
			M8330	■	▣	▣	▣	▣		●	-	0,8	0,02	0,10	0,1	5,0
ADMX 070212SR-M	M8340	■	■	▣		▣		●	+/-	1,2	0,03	0,12	0,1	5,0		
	ADMX 070216SR-M	M8310	■	▣	▣		▣		●	-	1,6	0,03	0,12	0,1	5,0	
		M8330	■	▣	■		▣		✘	-	1,6	0,03	0,12	0,1	5,0	
		M8340	■	■	▣		▣		✘	+/-	1,6	0,03	0,12	0,1	5,0	

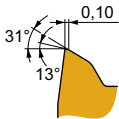
TNGX 10

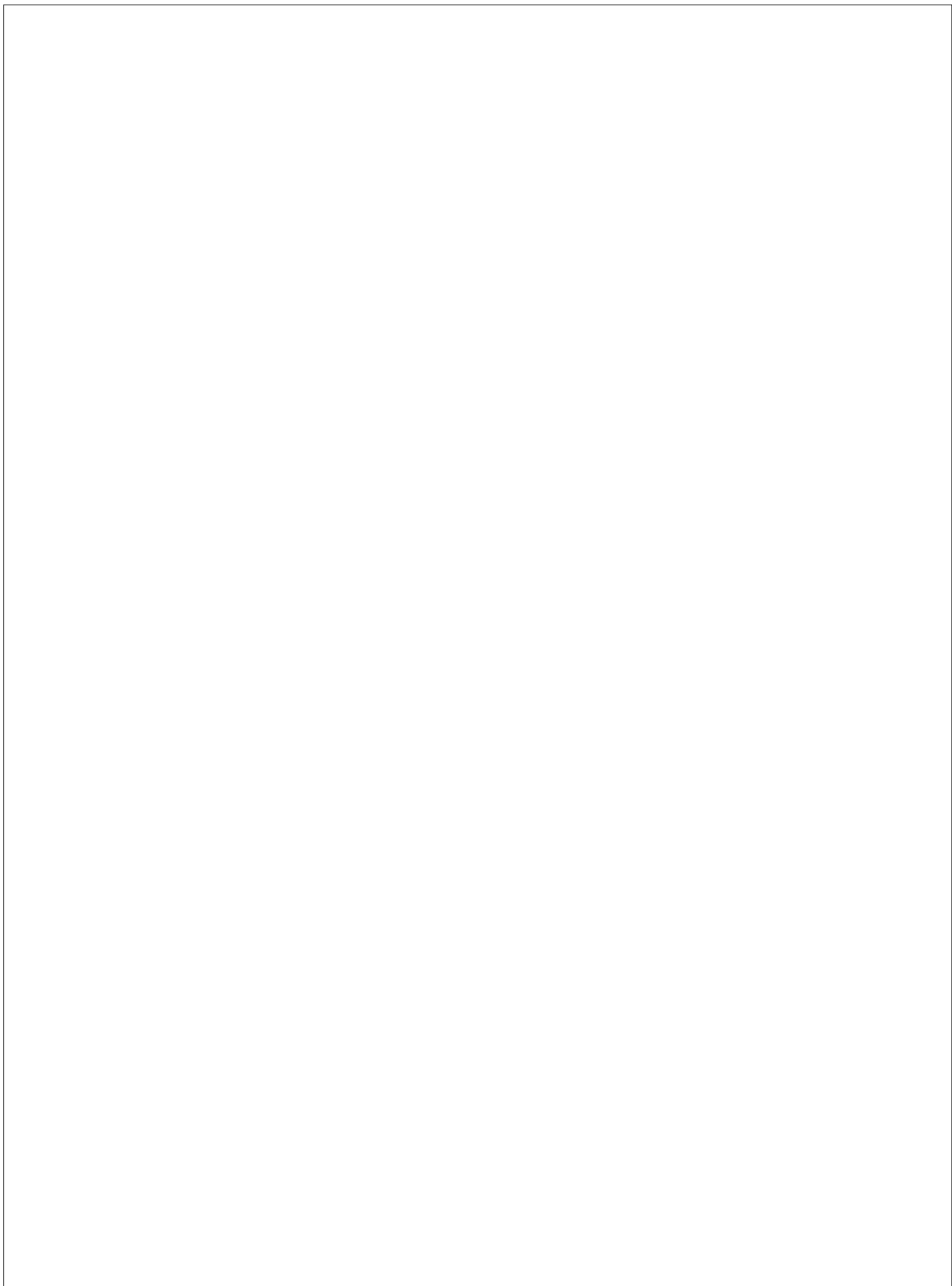
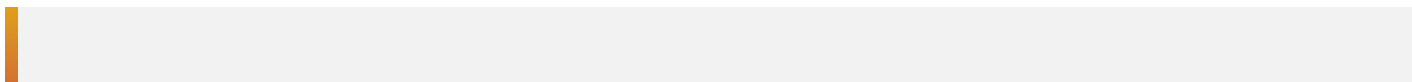


	IC	D1	L	S
100412	6,000	2,80	10,40	4,61
100416	6,000	2,80	10,40	4,54



i	ISO	M	P	M	K	N	S	H	?	RE	FN	FX	APMN	APMX		
															RE	FN
 	TNGX 100412SR-M	M8330	■	▣	▣	▣	▣	▣	●	-	1,2	0,05	0,15	0,3	5,0	
		M8340	■	■	▣	▣	▣	▣	▣	●	+/-	1,2	0,05	0,15	0,3	5,0
	TNGX 100416SR-M	M8310	■	▣	▣	▣	▣	▣	▣	●	-	1,6	0,05	0,15	0,3	5,0
		M8330	■	▣	▣	▣	▣	▣	▣	●	-	1,6	0,05	0,15	0,3	5,0
		M8340	■	■	▣	▣	▣	▣	●	+/-	1,6	0,05	0,15	0,3	5,0	





SIMPLY RELIABLE

Profesyoneller sadece talaşa bakarak işin kalitesini değerlendirebilir. Bizim talaşımız kendi öyküsünü anlatan pürüzsüz ve basit şekillidir. Açık ve istikrarlı işareten dolayı oldukça güvenilir olmak için sembolümüz olarak talaş şeklini kullanıyoruz.

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