

MVX + MINI MVX

DEĞİŞTİRİLEBİLİR UÇLU MATKAP
YÜKSEK TEKNOLOJİYLE GELEN ULTRA SAĞLAM GÖVDE
YAPISI

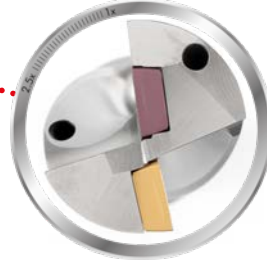


MVX + MİNİ MVX

DEĞİŞTİRİLEBİLİR UÇLU MATKAP



4 KESİCİ KENARLAR



Ekonomik 4 köşeli kesici uç.

DEĞİŞİK TIP KESİCİ UÇLAR



Çok çeşitli iş parçası malzemeleri ve uygulamaları için.

MÜKEMMEL FİNİŞ YÜZEY



Silici

Çevresel kesme kenarındaki silici geometrisi mükemmel duvar hassasiyeti sağlar.

CVD VE PVD KESİCİ UÇLARIN İDEAL KOMBİNASYONU

Dışarıdaki kenarda yüksek aşınma direncine sahip CVD kaplamalı kesici uç kullanılır, Ekstra stabilite sağlayan PVD kaplamalı kesici uç ise içerideki kenarda kullanılır.

MİNİ MVX: DELME DERİNLİĞİ ~ LD 5

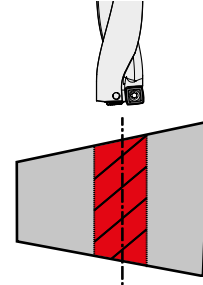
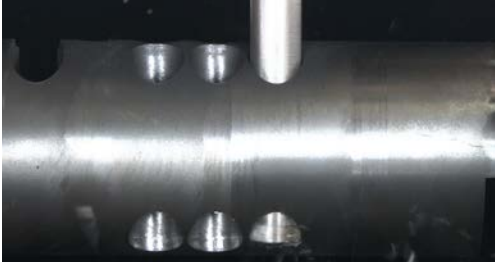
Yüksek sağlamlıktaki gövde ve kesici ucun yerleştirilme şekli, takım titreşimini ve deforme olmasını kontrol eder.

ÖZEL UYGULAMA ÖRNEKLERİ

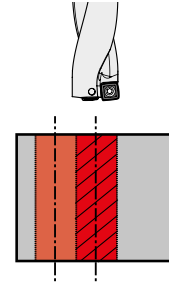
Uygulama Örnekleri

Kesme Modu

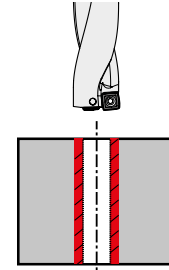
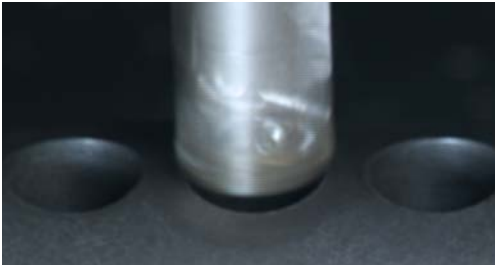
EĞİMLİ YÜZEY DELME



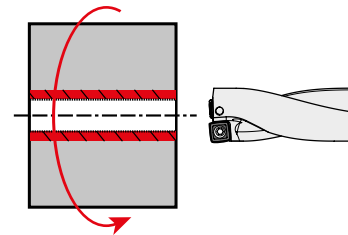
ÖRTÜŞMELİ DELİKLER



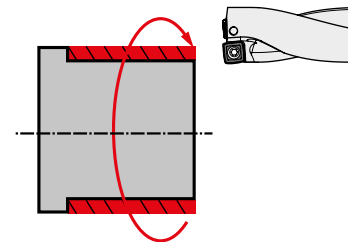
DELİK İŞLEME



İÇ ÇAP TORNALAMA



DIŞ ÇAP TORNALAMA



1. Özel uygulamalar için yalnızca DCx4 uzunluğunda takım gövdesi kullanın.

KESİCİ UÇ KIRICILARI

UH KIRICI - SERTLEŞTİRİLMİŞ ÇELİKLER İÇİN

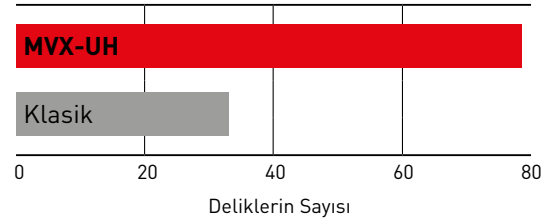
45 HRC'ye kadar sertleştirilmiş çeliklerin delinmesi için güçlendirilmiş kesici kenar.

KESME PERFORMANSI

Matkap	MVX1700X3F20
Kesici uç	Dıştaki MC1020-UM İçerideki DP8020-UH
İş parçası Malzemesi	DIN X40CrMoV51(45HRC)
Vc (m/dk)	50
f (mm/dev)	0.08
ap (mm)	30 (Açık delik)



Delik sayısı karşılaştırması



UN KIRICI - ALÜMİNYUM ALAŞIMLARI İÇİN

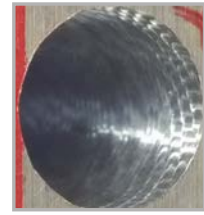
Keskin, taşlanmış kenar tasarımı ile UN talaş kırıcı, mükemmel talaş tahliyesi sağlar. Aynı zamanda pürüzsüz yüzeyler alüminyum kaynağını engeller.

KESME PERFORMANSI

Matkap	MVX1700X5F20
Kesici uç	Dıştaki TF15-UN İçteki TF15-UN
İş parçası Malzemesi	JIS ADC12
Vc (m/dk)	400
f (mm/dev)	0.05
ap (mm)	40 (Kör Delik)



Yüzey kalitesinin karşılaştırması



UN Kırıcı (TF15)

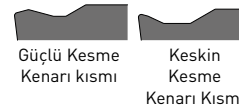
Klasik

US KIRICI - PASLANMAZ ÇELİKLER İÇİN

İçerideki kenar için özel olarak tasarlanmıştır. Mükemmel kırılma ve kaynak direnci.

KESME PERFORMANSI

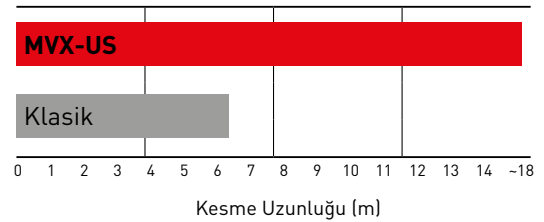
Matkap	MVX3000X3F32
Kesici uç	Dıştaki MC1020-UM İçerideki VP15TF-US
İş parçası Malzemesi	DIN X5CrNi18-10
Vc (m/dk)	120
f (mm/dev)	0.12
ap (mm)	50 (Açık delik)



Güçlü Kesme Kenarı kısmı

Keskin Kesme Kenarı kısmı

Kesme uzunluğu karşılaştırması



UM KIRICI - ORTA VE YÜKSEK İLERLEME HIZLARI İÇİN

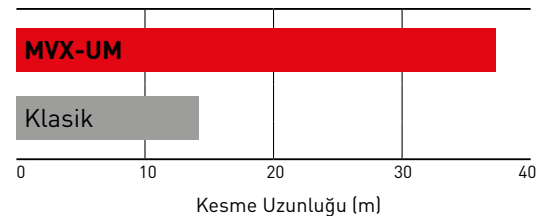
Çelik, paslanmaz çelik, dökme demir ve sertleştirilmiş çelikler için çok yönlü kırıcı.

KESME PERFORMANSI

Matkap	MVX1900X3F25
Kesici uç	Dıştaki MC1020-UM İçerideki VP15TF-UM
İş parçası Malzemesi	DIN C50
Vc (m/dk)	220
f (mm/dev)	0.1
ap (mm)	50 mm (Açık delik)
















Kesme Uzunluğunun Karşılaştırması



KESİCİ UÇ SEÇME KRİTERLERİ

Çevresel kesme hızı matkabın merkezine doğru doğal olarak daha yavaşlar ve kolayca talaş kaynağı ve yapışması oluşur. Doğru kesici ucun seçilmesine yardımcı olacak bazı önemli noktalar aşağıda belirtilmiştir.

1. Öneri		Dıştaki kesici uçta kırıklar	
Dışarıdaki	İçerideki	Dışarıdaki	İçerideki
P	MC1020	VP15TF	VP15TF
			
	UM	UM	UM
M	MC1020	VP15TF	VP15TF
			
	UM	US	US
K	MC5020	VP15TF	VP15TF
			
	UM	UM	UM
N	TF15	TF15	
			
	UN	UN	
H	MC1020	DP8020	VP15TF
			
	UM	UH	UH

KALİTE ÖZELLİKLERİ

MC1020

MC1020, yüksek kesme hızları için CVD kaplamalı bir kalitedir. Temel özellikleri, güvenilirlik için yüksek aşınma ve yüksek plastik deformasyon direncidir.

DP8020

Dayanıklı, özel karbür alt yapı ve yüksek sertlikte Ti-Al-Si kaplama kombinasyonu ile. DP8020, sertleştirilmiş çelik (45HRC veya daha düşük) için uygun PVD kaplamalı karbür kalitesidir ve çelik ile dökme demirin işlenmesinde kırılmayı önler.

MC5020

MC5020, dökme demirin delinmesi için uygun bir CVD kaplamalı kalitedir. Mükemmel aşınma direncine sahiptir ve nodüler dökme demirin delinmesinde oluşabilecek talaşı ve termal çatlağı kontrol ederek uzun takım ömrü sağlar.

VP15TF

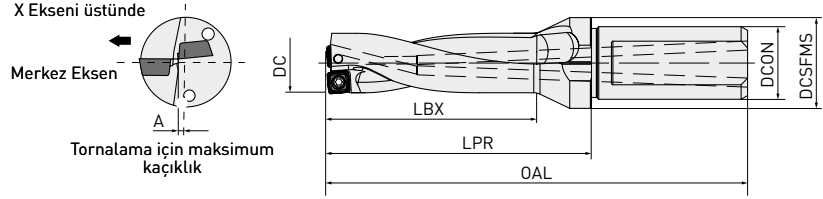
VP15TF, çok çeşitli uygulamalar için uygun PVD kaplamalı bir kalitedir. Mikro dokulu alt yapısı ve Miracle kaplaması sayesinde mükemmel kaynak direnci sağlar.

TF15

TF15, alüminyum alaşımlarının delinmesi için keskin kenarlı, mikro dokulu, kaplamasız karbür kalitesidir.

MINI MVX

P M K

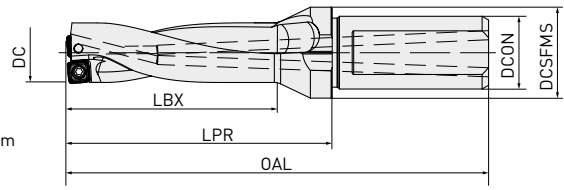
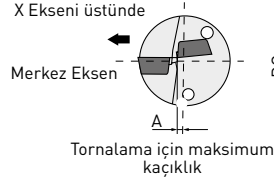


Sipariş Numarası	DC	L x DC	Stok	LBX	LPR	OAL	DCON	DCSFMS	A	Kesici uç
MVX1400X2F20	14.0	2	●	35	50	93	20	25	0.6	SOX05
MVX1400X3F20		3	●	49	64	107	20	25	0.6	
MVX1400X4F20		4	●	63	78	121	20	25	0.6	
MVX1400X5F20		5	●	77	92	135	20	25	0.6	
MVX1450X2F20	14.5	2	●	36	51	94	20	25	0.5	SOX05
MVX1450X3F20		3	●	50.5	65.5	108.5	20	25	0.5	
MVX1450X4F20		4	●	65	80	123	20	25	0.5	
MVX1450X5F20		5	●	79.5	94.5	137.5	20	25	0.5	
MVX1500X2F20	15.0	2	●	37	52	95	20	25	0.35	SOX05
MVX1500X3F20		3	●	52	67	110	20	25	0.35	
MVX1500X4F20		4	●	67	82	125	20	25	0.35	
MVX1500X5F20		5	●	82	97	140	20	25	0.35	
MVX1550X2F20	15.5	2	●	38	53	96	20	25	0.3	SOX05
MVX1550X3F20		3	●	53.5	68.5	111.5	20	25	0.3	
MVX1550X4F20		4	●	69	84	127	20	25	0.3	
MVX1550X5F20		5	●	84.5	99.5	142.5	20	25	0.3	
MVX1600X2F20	16.0	2	●	39	54	97	20	25	0.25	SOX05
MVX1600X3F20		3	●	55	70	113	20	25	0.25	
MVX1600X4F20		4	●	71	86	129	20	25	0.25	
MVX1600X5F20		5	●	87	102	145	20	25	0.25	
MVX1650X2F20	16.5	2	●	40	55	98	20	25	0.25	SOX05
MVX1650X3F20		3	●	56.5	71.5	114.5	20	25	0.25	
MVX1650X4F20		4	●	73	88	131	20	25	0.25	
MVX1650X5F20		5	●	89.5	104.5	147.5	20	25	0.25	

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MVX



Sipariş Numarası	DC	L x DC	Stok	LBX	LPR	OAL	DCON	DCSFMS	A	Kesici uç
MVX1700X2F20	17.0	2	●	41	56	99	20	25	0.5	SO \odot X06
MVX1700X3F20		3	●	58	73	116	20	25	0.5	
MVX1700X4F20		4	●	75	90	133	20	25	0.5	
MVX1700X5F20		5	●	92	107	150	20	25	0.5	
MVX1700X6F20		6	●	109	124	167	20	25	0.5	
MVX1750X2F25		17.5	2	●	42	62	112	25	32	
MVX1750X3F25	3		●	59.5	79.5	129.5	25	32	0.45	
MVX1750X4F25	4		●	77	97	147	25	32	0.45	
MVX1750X5F25	5		●	94.5	114.5	164.5	25	32	0.45	
MVX1750X6F25	6		●	112	132	182	25	32	0.45	
MVX1800X2F25	18.0		2	●	43	63	113	25	32	0.4
MVX1800X3F25		3	●	61	81	131	25	32	0.4	
MVX1800X4F25		4	●	79	99	149	25	32	0.4	
MVX1800X5F25		5	●	97	117	167	25	32	0.4	
MVX1800X6F25		6	●	115	135	185	25	32	0.4	
MVX1850X2F25		18.5	2	●	44	64	114	25	32	0.35
MVX1850X3F25	3		●	62.5	82.5	132.5	25	32	0.35	
MVX1850X4F25	4		●	81	101	151	25	32	0.35	
MVX1850X5F25	5		●	99.5	119.5	169.5	25	32	0.35	
MVX1850X6F25	6		●	118	138	188	25	32	0.35	
MVX1900X2F25	19.0		2	●	45	65	115	25	32	0.3
MVX1900X3F25		3	●	64	84	134	25	32	0.3	
MVX1900X4F25		4	●	83	103	153	25	32	0.3	
MVX1900X5F25		5	●	102	122	172	25	32	0.3	
MVX1900X6F25		6	●	121	141	191	25	32	0.3	
MVX1950X2F25		19.5	2	●	46	66	116	25	32	0.25
MVX1950X3F25	3		●	65.5	85.5	135.5	25	32	0.25	
MVX1950X4F25	4		●	85	105	155	25	32	0.25	
MVX1950X5F25	5		●	104.5	124.5	174.5	25	32	0.25	
MVX1950X6F25	6		●	124	144	194	25	32	0.25	
MVX2000X2F25	20.0		2	●	47	67	117	25	32	0.6
MVX2000X3F25		3	●	67	87	137	25	32	0.6	
MVX2000X4F25		4	●	87	107	157	25	32	0.6	
MVX2000X5F25		5	●	107	127	177	25	32	0.6	
MVX2000X6F25		6	●	127	147	197	25	32	0.6	
MVX2050X2F25		20.5	2	●	48	68	118	25	32	0.55
MVX2050X3F25	3		●	68.5	88.5	138.5	25	32	0.55	

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MVX

Sipariş Numarası	DC	L x DC	Stok	LBX	LPR	OAL	DCON	DCSFMS	A	Kesici uç
MVX2100X2F25	21.0	2	●	49	69	119	25	32	0.5	SOX07
MVX2100X3F25		3	●	70	90	140	25	32	0.5	
MVX2100X4F25		4	●	91	111	161	25	32	0.5	
MVX2100X5F25		5	●	112	132	182	25	32	0.5	
MVX2100X6F25		6	●	133	153	203	25	32	0.5	
MVX2150X2F25	21.5	2	●	50	70	120	25	32	0.45	SOX07
MVX2150X3F25		3	●	71.5	91.5	141.5	25	32	0.45	
MVX2200X2F25	22.0	2	●	51	71	121	25	32	0.4	SOX07
MVX2200X3F25		3	●	73	93	143	25	32	0.4	
MVX2200X4F25		4	●	95	115	165	25	32	0.4	
MVX2200X5F25		5	●	117	137	187	25	32	0.4	
MVX2200X6F25		6	●	139	159	209	25	32	0.4	
MVX2250X2F25	22.5	2	●	52	72	122	25	32	0.35	SOX07
MVX2250X3F25		3	●	74.5	94.5	144.5	25	32	0.35	
MVX2300X2F25	23.0	2	●	53	73	123	25	32	0.8	SOX08
MVX2300X3F25		3	●	76	96	146	25	32	0.8	
MVX2300X4F25		4	●	99	119	169	25	32	0.8	
MVX2300X5F25		5	●	122	142	192	25	32	0.8	
MVX2300X6F25		6	●	145	165	215	25	32	0.8	
MVX2350X2F25	23.5	2	●	54	74	124	25	32	0.75	SOX08
MVX2350X3F25		3	●	77.5	97.5	147.5	25	32	0.75	
MVX2400X2F25	24.0	2	●	55	75	125	25	32	0.7	SOX08
MVX2400X3F25		3	●	79	99	149	25	32	0.7	
MVX2400X4F25		4	●	103	123	173	25	32	0.7	
MVX2400X5F25		5	●	127	147	197	25	32	0.7	
MVX2400X6F25		6	●	151	171	221	25	32	0.7	
MVX2450X2F25	24.5	2	●	56	76	126	25	32	0.65	SOX08
MVX2450X3F25		3	●	80.5	100.5	150.5	25	32	0.65	
MVX2500X2F25	25.0	2	●	57	77	127	25	32	0.6	SOX08
MVX2500X3F25		3	●	82	102	152	25	32	0.6	
MVX2500X4F25		4	●	107	127	177	25	32	0.6	
MVX2500X5F25		5	●	132	152	202	25	32	0.6	
MVX2500X6F25		6	●	157	177	227	25	32	0.6	
MVX2550X2F25	25.5	2	●	58	78	128	25	32	0.6	SOX08
MVX2550X3F25		3	●	83.5	103.5	153.5	25	32	0.6	
MVX2600X2F32	26.0	2	●	59	79	134	32	42	0.5	SOX08
MVX2600X3F32		3	●	85	105	160	32	42	0.5	
MVX2600X4F32		4	●	111	131	186	32	42	0.5	
MVX2600X5F32		5	●	137	157	212	32	42	0.5	
MVX2600X6F32		6	●	163	183	238	32	42	0.5	
MVX2650X2F32	26.5	2	●	60	80	135	32	42	0.5	SOX08
MVX2650X3F32		3	●	86.5	106.5	161.5	32	42	0.5	
MVX2700X2F32	27.0	2	●	61	81	136	32	42	0.45	SOX08
MVX2700X3F32		3	●	88	108	163	32	42	0.45	
MVX2700X4F32		4	●	115	135	190	32	42	0.45	
MVX2700X5F32		5	●	142	162	217	32	42	0.45	
MVX2700X6F32		6	●	169	189	244	32	42	0.45	
MVX2750X2F32	27.5	2	●	62	82	137	32	42	0.4	SOX08
MVX2750X3F32		3	●	89.5	109.5	164.5	32	42	0.4	

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MVX

Sipariş Numarası	DC	L x DC	Stok	LBX	LPR	OAL	DCON	DCSFMS	A	Kesici uç
MVX2800X2F32		2	●	63	83	138	32	42	0.85	
MVX2800X3F32		3	●	91	111	166	32	42	0.85	
MVX2800X4F32	28.0	4	●	119	139	194	32	42	0.85	SOX09
MVX2800X5F32		5	●	147	167	222	32	42	0.85	
MVX2800X6F32		6	●	175	195	250	32	42	0.85	
MVX2850X2F32		2	●	64	84	139	32	42	0.8	
MVX2850X3F32	28.5	3	●	92.5	112.5	167.5	32	42	0.8	SOX09
MVX2900X2F32		2	●	65	85	140	32	42	0.75	
MVX2900X3F32		3	●	94	114	169	32	42	0.75	
MVX2900X4F32	29.0	4	●	123	143	198	32	42	0.75	SOX09
MVX2900X5F32		5	●	152	172	227	32	42	0.75	
MVX2900X6F32		6	●	181	201	256	32	42	0.75	
MVX2950X2F32		2	●	66	86	141	32	42	0.7	
MVX2950X3F32	29.5	3	●	95.5	115.5	170.5	32	42	0.7	SOX09
MVX3000X2F32		2	●	67	87	142	32	42	0.65	
MVX3000X3F32		3	●	97	117	172	32	42	0.65	
MVX3000X4F32	30.0	4	●	127	147	202	32	42	0.65	SOX09
MVX3000X5F32		5	●	157	177	232	32	42	0.65	
MVX3000X6F32		6	●	187	207	262	32	42	0.65	
MVX3050X3F32	30.5	3	●	98.5	118.5	173.5	32	42	0.6	SOX09
MVX3100X2F40		2	●	69	89	154	40	50	0.55	
MVX3100X3F40		3	●	100	120	185	40	50	0.55	
MVX3100X4F40	31.0	4	●	131	151	216	40	50	0.55	SOX09
MVX3100X5F40		5	●	162	182	247	40	50	0.55	
MVX3100X6F40		6	●	193	213	278	40	50	0.55	
MVX3150X3F40	31.5	3	●	101.5	121.5	186.5	40	50	0.55	SOX09
MVX3200X2F40		2	●	71	91	156	40	50	0.45	
MVX3200X3F40		3	●	103	123	188	40	50	0.45	
MVX3200X4F40	32.0	4	●	135	155	220	40	50	0.45	SOX09
MVX3200X5F40		5	●	167	187	252	40	50	0.45	
MVX3200X6F40		6	●	199	219	284	40	50	0.45	
MVX3250X3F40	32.5	3	●	104.5	124.5	189.5	40	50	0.45	SOX09
MVX3300X2F40		2	●	73	93	158	40	50	0.4	
MVX3300X3F40		3	●	106	126	191	40	50	0.4	
MVX3300X4F40	33.0	4	●	139	159	224	40	50	0.4	SOX09
MVX3300X5F40		5	●	172	192	257	40	50	0.4	
MVX3300X6F40		6	●	205	225	290	40	50	0.4	
MVX3350X3F40	33.5	3	●	107.5	127.5	192.5	40	50	1.2	SOX11
MVX3400X2F40		2	●	75	105	170	40	50	1.1	
MVX3400X3F40		3	●	109	139	204	40	50	1.1	
MVX3400X4F40	34.0	4	●	143	173	238	40	50	1.1	SOX11
MVX3400X5F40		5	●	177	207	272	40	50	1.1	
MVX3400X6F40		6	●	211	241	306	40	50	1.1	
MVX3450X3F40	34.5	3	●	110.5	140.5	205.5	40	50	1.1	SOX11
MVX3500X2F40		2	●	77	107	172	40	50	1.0	
MVX3500X3F40		3	●	112	142	207	40	50	1.0	
MVX3500X4F40	35.0	4	●	147	177	242	40	50	1.0	SOX11
MVX3500X5F40		5	●	182	212	277	40	50	1.0	
MVX3500X6F40		6	●	217	247	312	40	50	1.0	
MVX3550X3F40	35.5	3	●	113.5	143.5	208.5	40	50	1.0	SOX11

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MVX

Sipariş Numarası	DC	L x DC	Stok	LBX	LPR	OAL	DCON	DCSFMS	A	Kesici uç
MVX3600X2F40	36.0	2	●	79	109	174	40	50	1.0	SOX11
MVX3600X3F40		3	●	115	145	210	40	50	1.0	
MVX3600X4F40		4	●	151	181	246	40	50	1.0	
MVX3600X5F40		5	●	187	217	282	40	50	1.0	
MVX3600X6F40		6	●	223	253	318	40	50	0.9	
MVX3700X2F40	37.0	2	●	81	111	176	40	50	0.9	SOX11
MVX3700X3F40		3	●	118	148	213	40	50	0.9	
MVX3700X4F40		4	●	155	185	250	40	50	0.9	
MVX3700X5F40		5	●	192	222	287	40	50	0.9	
MVX3700X6F40		6	●	229	259	324	40	50	0.9	
MVX3800X2F40	38.0	2	●	83	113	178	40	50	0.8	SOX11
MVX3800X3F40		3	●	121	151	216	40	50	0.8	
MVX3800X4F40		4	●	159	189	254	40	50	0.8	
MVX3800X5F40		5	●	197	227	292	40	50	0.8	
MVX3800X6F40		6	●	235	265	330	40	50	0.8	
MVX3900X2F40	39.0	2	●	85	115	180	40	50	0.7	SOX11
MVX3900X3F40		3	●	124	154	219	40	50	0.7	
MVX3900X4F40		4	●	163	193	258	40	50	0.7	
MVX3900X5F40		5	●	202	232	297	40	50	0.7	
MVX3900X6F40		6	●	241	271	336	40	50	0.7	
MVX4000X2F40	40.0	2	●	87	117	182	40	50	1.5	SOX13
MVX4000X3F40		3	●	127	157	222	40	50	1.5	
MVX4000X4F40		4	●	167	197	262	40	50	1.5	
MVX4000X5F40		5	●	207	237	302	40	50	1.5	
MVX4000X6F40		6	●	247	277	342	40	50	1.4	
MVX4100X2F40	41.0	2	●	89	119	184	40	50	1.4	SOX13
MVX4100X3F40		3	●	130	160	225	40	50	1.4	
MVX4100X4F40		4	●	171	201	266	40	50	1.4	
MVX4100X5F40		5	●	212	242	307	40	50	1.4	
MVX4100X6F40		6	●	253	283	348	40	50	1.4	
MVX4200X2F40	42.0	2	●	91	121	186	40	50	1.3	SOX13
MVX4200X3F40		3	●	133	163	228	40	50	1.3	
MVX4200X4F40		4	●	175	205	270	40	63	1.3	
MVX4200X4F50		4	★	175	205	280	50	63	1.3	
MVX4200X5F40		5	●	217	247	312	40	63	1.3	
MVX4200X5F50		5	★	217	247	322	50	63	1.3	
MVX4200X6F40		6	●	259	289	354	40	63	1.3	
MVX4200X6F50	6	★	259	289	364	50	63	1.3		
MVX4300X2F40	43.0	2	●	93	123	188	40	50	1.2	SOX13
MVX4300X3F40		3	●	136	166	231	40	50	1.2	
MVX4300X4F40		4	●	179	209	274	40	63	1.2	
MVX4300X4F50		4	★	179	209	284	50	63	1.2	
MVX4300X5F40		5	●	222	252	317	40	63	1.2	
MVX4300X5F50		5	★	222	252	327	50	63	1.2	
MVX4300X6F40		6	●	265	295	360	40	63	1.2	
MVX4300X6F50		6	★	265	295	370	50	63	1.2	

MVX

Sipariş Numarası	DC	L x DC	Stok	LBX	LPR	OAL	DCON	DCSFMS	A	Kesici uç
MVX4400X2F40	44.0	2	●	95	125	190	40	50	1.1	SOX13
MVX4400X3F40		3	●	139	169	234	40	50	1.1	
MVX4400X4F40		4	●	183	213	278	40	63	1.1	
MVX4400X4F50		4	★	183	213	288	50	63	1.1	
MVX4400X5F40		5	●	227	257	322	40	63	1.1	
MVX4400X5F50		5	★	227	257	332	50	63	1.1	
MVX4500X2F40	45.0	2	●	97	127	192	40	50	1.0	SOX13
MVX4500X3F40		3	●	142	172	237	40	50	1.0	
MVX4500X4F40		4	●	187	217	282	40	63	1.0	
MVX4500X4F50		4	★	187	217	292	50	63	1.0	
MVX4500X5F40		5	●	232	262	327	40	63	1.0	
MVX4500X5F50		5	★	232	262	337	50	63	1.0	
MVX4600X2F40	46.0	2	●	99	129	194	40	50	0.9	SOX13
MVX4600X3F40		3	●	145	175	240	40	50	0.9	
MVX4600X4F40		4	●	191	221	286	40	63	0.9	
MVX4600X4F50		4	★	191	221	296	50	63	0.9	
MVX4600X5F40		5	●	237	267	332	40	63	0.9	
MVX4600X5F50		5	★	237	267	342	50	63	0.9	
MVX4700X2F40	47.0	2	●	101	141	206	40	63	1.9	SOX16
MVX4700X3F40		3	●	148	188	253	40	63	1.9	
MVX4700X4F40		4	●	195	235	300	40	63	1.9	
MVX4700X4F50		4	★	195	235	310	50	63	1.9	
MVX4700X5F40		5	●	242	282	347	40	63	1.9	
MVX4700X5F50		5	★	242	282	357	50	63	1.9	
MVX4800X2F40	48.0	2	●	103	143	208	40	63	1.8	SOX16
MVX4800X3F40		3	●	151	191	256	40	63	1.8	
MVX4800X4F40		4	●	199	239	304	40	63	1.8	
MVX4800X4F50		4	★	199	239	314	50	63	1.8	
MVX4800X5F40		5	●	247	287	352	40	63	1.8	
MVX4800X5F50		5	★	247	287	362	50	63	1.8	
MVX4900X2F40	49.0	2	●	105	145	210	40	63	1.7	SOX16
MVX4900X3F40		3	●	154	194	259	40	63	1.7	
MVX4900X4F40		4	●	203	243	308	40	63	1.7	
MVX4900X4F50		4	★	203	243	318	50	63	1.7	
MVX4900X5F40		5	●	252	292	357	40	63	1.7	
MVX4900X5F50		5	★	252	292	367	50	63	1.7	
MVX5000X2F40	50.0	2	●	107	147	212	40	63	1.6	SOX16
MVX5000X3F40		3	●	157	197	262	40	63	1.6	
MVX5000X4F40		4	●	207	247	312	40	63	1.6	
MVX5000X4F50		4	★	207	247	322	50	63	1.6	
MVX5000X5F40		5	●	257	297	362	40	63	1.6	
MVX5000X5F50		5	★	257	297	372	50	63	1.6	
MVX5100X2F40	51.0	2	●	109	149	214	40	63	1.5	SOX16
MVX5100X3F40		3	●	160	200	265	40	63	1.5	
MVX5100X4F40		4	●	211	251	316	40	63	1.5	
MVX5100X4F50		4	★	211	251	326	50	63	1.5	
MVX5100X5F40		5	●	262	302	367	40	63	1.5	
MVX5100X5F50		5	★	262	302	377	50	63	1.5	

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MVX

Sipariş Numarası	DC	L x DC	Stok	LBX	LPR	OAL	DCON	DCSFMS	A	Kesici uç
MVX5200X2F40	52.0	2	●	111	151	216	40	63	1.4	SOX16
MVX5200X3F40		3	●	163	203	268	40	63	1.4	
MVX5200X4F40		4	●	215	255	320	40	63	1.4	
MVX5200X4F50		4	★	215	255	330	50	63	1.4	
MVX5200X5F40		5	●	267	307	372	40	63	1.4	
MVX5200X5F50		5	★	267	307	382	50	63	1.4	
MVX5300X2F40	53.0	2	●	113	153	218	40	63	1.3	SOX16
MVX5300X3F40		3	●	166	206	271	40	63	1.3	
MVX5300X4F40		4	●	219	259	324	40	63	1.3	
MVX5300X4F50		4	★	219	259	334	50	63	1.3	
MVX5300X5F40		5	●	272	312	377	40	63	1.3	
MVX5300X5F50		5	★	272	312	387	50	63	1.3	
MVX5400X2F40	54.0	2	●	115	155	220	40	63	1.2	SOX16
MVX5400X3F40		3	●	169	209	274	40	63	1.2	
MVX5400X4F40		4	●	223	263	328	40	63	1.2	
MVX5400X4F50		4	★	223	263	338	50	63	1.2	
MVX5400X5F40		5	●	277	317	382	40	63	1.2	
MVX5400X5F50		5	★	277	317	392	50	63	1.2	
MVX5500X2F40	55.0	2	●	117	157	222	40	63	1.1	SOX16
MVX5500X3F40		3	●	172	212	277	40	63	1.1	
MVX5500X4F40		4	●	227	267	332	40	63	1.1	
MVX5500X4F50		4	★	227	267	342	50	63	1.1	
MVX5500X5F40		5	●	282	322	387	40	63	1.1	
MVX5500X5F50		5	★	282	322	397	50	63	1.1	
MVX5600X2F40	56.0	2	●	119	159	224	40	63	1.0	SOX16
MVX5600X3F40		3	●	175	215	280	40	63	1.0	
MVX5600X4F40		4	●	231	271	336	40	63	1.0	
MVX5600X4F50		4	★	231	271	346	50	63	1.0	
MVX5600X5F40		5	●	287	327	392	40	63	1.0	
MVX5600X5F50		5	★	287	327	402	50	63	1.0	
MVX5700X2F40	57.0	2	●	121	161	226	40	68	1.5	SOX18
MVX5700X3F40		3	●	178	218	283	40	68	1.5	
MVX5700X4F40		4	●	235	275	340	40	68	1.5	
MVX5700X4F50		4	★	235	275	350	50	68	1.5	
MVX5700X5F40		5	●	292	332	397	40	68	1.5	
MVX5700X5F50		5	★	292	332	407	50	68	1.5	
MVX5800X2F40	58.0	2	●	123	163	228	40	68	1.4	SOX18
MVX5800X3F40		3	●	181	221	286	40	68	1.4	
MVX5800X4F40		4	●	239	279	344	40	68	1.4	
MVX5800X4F50		4	★	239	279	354	50	68	1.4	
MVX5800X5F40		5	●	297	337	402	40	68	1.4	
MVX5800X5F50		5	★	297	337	412	50	68	1.4	
MVX5900X2F40	59.0	2	●	125	165	230	40	68	1.3	SOX18
MVX5900X3F40		3	●	184	224	289	40	68	1.3	
MVX5900X4F40		4	●	243	283	348	40	68	1.3	
MVX5900X4F50		4	★	243	283	358	50	68	1.3	
MVX5900X5F40		5	●	302	342	407	40	68	1.3	
MVX5900X5F50		5	★	302	342	417	50	68	1.3	


MVX

Sipariş Numarası	DC	L x DC	Stok	LBX	LPR	OAL	DCON	DCSFMS	A	Kesici uç
MVX6000X2F40	60.0	2	●	127	167	232	40	68	1.2	SOX18
MVX6000X3F40		3	●	187	227	292	40	68	1.2	
MVX6000X4F40		4	●	247	287	352	40	68	1.2	
MVX6000X4F50		4	★	247	287	362	50	68	1.2	
MVX6000X5F40		5	●	307	347	412	40	68	1.2	
MVX6000X5F50		5	★	307	347	422	50	68	1.2	
MVX6100X2F40	61.0	2	●	129	169	234	40	68	1.1	SOX18
MVX6100X3F40		3	●	190	230	295	40	68	1.1	
MVX6100X4F40		4	●	251	291	356	40	68	1.1	
MVX6100X4F50		4	★	251	291	366	50	68	1.1	
MVX6100X5F40		5	●	312	352	417	40	68	1.1	
MVX6100X5F50		5	★	312	352	427	50	68	1.1	
MVX6200X2F40	62.0	2	●	131	171	236	40	68	1.0	SOX18
MVX6200X3F40		3	●	193	233	298	40	68	1.0	
MVX6200X4F40		4	●	255	295	360	40	68	1.0	
MVX6200X4F50		4	★	255	295	370	50	68	1.0	
MVX6200X5F40		5	●	317	357	422	40	68	1.0	
MVX6200X5F50		5	★	317	357	432	50	68	1.0	
MVX6300X2F40	63.0	2	●	133	173	238	40	68	0.8	SOX18
MVX6300X3F40		3	●	196	236	301	40	68	0.8	
MVX6300X4F40		4	●	259	299	364	40	68	0.8	
MVX6300X4F50		4	★	259	299	374	50	68	0.8	
MVX6300X5F40		5	●	322	362	427	40	68	0.8	
MVX6300X5F50		5	★	322	362	437	50	68	0.8	

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YEDEK PARÇALAR

Matkap Çapı (mm)	 Uç bağlama Vidası	Sıkma Torku (Nm)	Anahtar
14 – 16.5	TPS20-1	0.6	TIP06F
17 – 19.5	TPS25	1.0	TIP07F
20 – 22.5	TPS3	2.0	TIP10W
23 – 27.5	TPS351	2.5	TIP10W
28 – 33	TPS4	3.5	TIP15W
33.5 – 46	TPS43	3.5	TIP15W
47 – 63	TPS54	7.5	TIP25D

DELME TOLERANSI

L x DC	Ø 14 – 33	Ø 17 – 33	Ø 33.5 – 47	Ø 48 – 63
2-3	+ 0.25 0	+ 0.25 0	+ 0.3 0	+ 0.3 0
4-5	+ 0.35 0	+ 0.35 0	+ 0.4 0	+ 0.45 0
6	+ 0.45 0	+ 0.45 0	+ 0.6 0	—

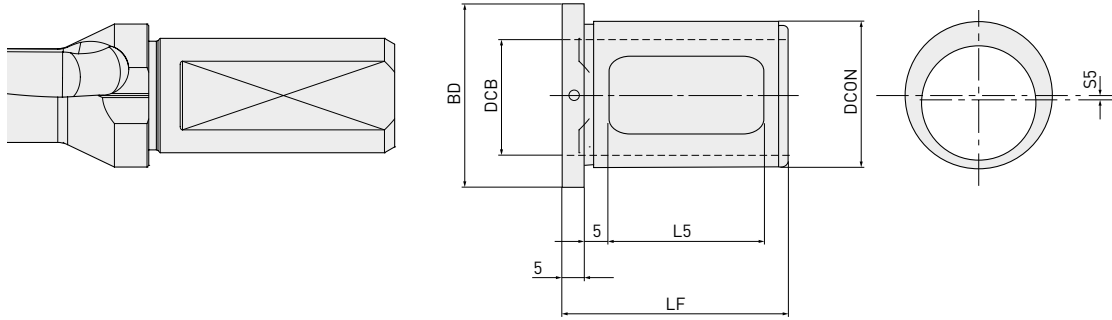
KESİCİ UÇLAR

Sipariş Numarası	MC5020*	MC1020*	VP15TF	DP8020	TF15	IC	S	RE	Matkap Çapı	Şekil
UM										
SOMX052704-UM	●	●	●			5.0	2.7	0.4	Ø14 – 16.5	
SOMX063005-UM	●	●	●			6.0	3.0	0.5	Ø17 – 19.5	
SOMX073505-UM	●	●	●			7.0	3.5	0.5	Ø20 – 22.5	
SOMX084005-UM	●	●	●			8.3	4.0	0.5	Ø23 – 27.5	
SOMX094506-UM	●	●	●			9.7	4.5	0.6	Ø28 – 33	
SOMX115506-UM	●	●	●			11.6	5.5	0.6	Ø33.5 – 39	
SOMX136008-UM	●	●	●			13.8	6.0	0.8	Ø40 – 46	
SOMX166508-UM	●	●	●			16.5	6.5	0.8	Ø47 – 56	
SOMX187008-UM	●	●	●			18.2	7.0	0.8	Ø57 – 63	
US										
SOMX063005-US			●			6.0	3.0	0.5	Ø17 – 19.5	
SOMX073505-US			●			7.0	3.5	0.5	Ø20 – 22.5	
SOMX084005-US			●			8.3	4.0	0.5	Ø23 – 27.5	
SOMX094506-US			●			9.7	4.5	0.6	Ø28 – 33	
SOMX115506-US			●			11.6	5.5	0.6	Ø33.5 – 39	
SOMX136008-US			●			13.8	6.0	0.8	Ø40 – 46	
SOMX166508-US			●			16.5	6.5	0.8	Ø47 – 56	
SOMX187008-US			●			18.2	7.0	0.8	Ø57 – 63	
UH										
SOMX062905-UH				●		6.0	2.9	0.5	Ø17 – 19.5	
SOMX073405-UH				●		7.0	3.4	0.5	Ø20 – 22.5	
SOMX083905-UH				●		8.3	3.9	0.5	Ø23 – 27.5	
SOMX094406-UH				●		9.7	4.4	0.6	Ø28 – 33	
SOMX115406-UH				●		11.6	5.4	0.6	Ø33.5 – 39	
SOMX135908-UH				●		13.8	5.9	0.8	Ø40 – 46	
SOMX166408-UH				●		16.5	6.4	0.8	Ø47 – 56	
SOMX186908-UH				●		18.2	6.9	0.8	Ø57 – 63	
UN										
SOGX063005-UN					●	6.0	3.0	0.5	Ø17 – 19.5	
SOGX073505-UN					●	7.0	3.5	0.5	Ø20 – 22.5	
SOGX084005-UN					●	8.3	4.0	0.5	Ø23 – 27.5	
SOGX094506-UN					●	9.7	4.5	0.6	Ø28 – 33	
SOGX115506-UN					●	11.6	5.5	0.6	Ø33.5 – 39	
SOGX136008-UN					●	13.8	6.0	0.8	Ø40 – 46	
SOGX166508-UN					●	16.5	6.5	0.8	Ø47 – 56	
SOGX187008-UN					●	18.2	7.0	0.8	Ø57 – 63	

* MC1020 ve MC5020 kaliteli kesici uçlar özellikle dışarıdaki kenarda kullanılmak üzere üretilmiştir.



ÇAP AYAR BURCU [JFS] ÇAP ARTIŞI



Sipariş Numarası	Set Sipariş Numarası	Stok	DCB	DCON	BD	LF	L5	Artış (S5x2) *	MVX Şaftlı Tip
JFS2520-10	JFS-1	●	20	25	33	43	30	0.1	F20
JFS2520-20		●	20	25	33	43	30	0.2	F20
JFS2520-30		●	20	25	33	43	30	0.3	F20
JFS2520-40		●	20	25	33	43	30	0.4	F20
JFS2520-50		●	20	25	33	43	30	0.5	F20
JFS3225-10	JFS-2	●	25	32	40	50	34	0.1	F25
JFS3225-20		●	25	32	40	50	34	0.2	F25
JFS3225-30		●	25	32	40	50	34	0.3	F25
JFS3225-40		●	25	32	40	50	34	0.4	F25
JFS3225-50		●	25	32	40	50	34	0.5	F25
JFS4032-10	JFS-3	●	32	40	48	55	40	0.1	F32
JFS4032-20		●	32	40	48	55	40	0.2	F32
JFS4032-30		●	32	40	48	55	40	0.3	F32
JFS4032-40		●	32	40	48	55	40	0.4	F32
JFS4032-50		●	32	40	48	55	40	0.5	F32
JFS5040-10	-	★	40	50	68	65	50	0.1	F40
JFS5040-20		★	40	50	68	65	50	0.2	F40
JFS5040-30		★	40	50	68	65	50	0.3	F40
JFS5040-40		★	40	50	68	65	50	0.4	F40
JFS5040-50		★	40	50	68	65	50	0.5	F40

* Artış: Artan kesme çapı ölçüsü.

1. Şaft Ø 50 mm için uygun değildir.

TAM UYUMLU AYAR BURCUNU SEÇME KILAVUZU

İstenilen = (Matkap Ø + JFS Artışı) + 0.1 mm

(Ör.) İstenen çap 20.3 mm (Standart ölçüden büyüklük 0.1 mm olarak alınır).

Ø20.3 = (MVX2000 X F25 + JFS3225-20) + 0.1

↓
20 mm Matkap

↓
JFS'yi kullanarak,
0.2 mm bir artış olur.

↓
Standart
ölçüden
büyüklük

<Seçilen Takım>

Delme Ucu: **MVX2000 X F25**

Tam Uyumlu Burç [JFS]:

JFS3225-20

1. Ölçü dışılık kullanılan kesme koşulları nedeniyle değişebilir, lütfen kılavuz olarak yukarıyı kullanın.

TAM UYUMLU BURCU SİPARİŞ ETME

Satın Alma Yöntemi 1

Aşırı boyut kullanılan kesme koşulları nedeniyle değişebilir. Bu nedenle set olarak satın alınması önerilir. Bir sipariş verirken, lütfen Set sipariş numarasını kullanın. (5 manşon/set)

Satın Alma Yöntemi 2

Ayrı ayrı sipariş etmek mümkündür. Bir sipariş verirken, lütfen bireysel sipariş numarasını kullanın.

MVX + MINI MVX

ÖNERİLEN KESME ŞARTLARI

İş parçası Malzemesi	Sertlik	Vc	İçerideki Uç Kırıcısı	Ø14 - Ø16.5			Ø17 - Ø19.5			
				f			f			
				LxDC=2 - 3	LxDC=4	LxDC=5	LxDC=2 - 3	LxDC=4	LxDC=5	LxDC=6
P	Yumuşak Çelik (C15, Ck15)	≤180HB 200 (180 - 235)	UM	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.04 (0.04 - 0.05)
			UH	-	-	-	-	-	-	-
	Karbon Çeliği, Alaşımlı Çelik (Ck45, 41CrMo4)	180 - 280HB 140 (115 - 180)	UM	0.08 (0.06 - 0.14)	0.08 (0.06 - 0.09)	0.08 (0.06 - 0.09)	0.08 (0.06 - 0.14)	0.08 (0.06 - 0.09)	0.08 (0.06 - 0.09)	0.05 (0.04 - 0.06)
			UH	-	-	-	-	-	-	-
Karbon Çeliği, Alaşımlı Çelik (100Cr6)	280 - 350HB 100 (75 - 140)	UM	0.08 (0.06 - 0.14)	0.08 (0.06 - 0.09)	0.08 (0.06 - 0.09)	0.08 (0.06 - 0.14)	0.08 (0.06 - 0.09)	0.08 (0.06 - 0.09)	0.05 (0.04 - 0.06)	
		UH	-	-	-	-	-	-	-	-
Alaşımlı Takım Çeliği (X210Cr12)	≤350HB 135 (100 - 170)	UM	0.08 (0.06 - 0.14)	0.08 (0.06 - 0.09)	0.08 (0.06 - 0.09)	0.08 (0.06 - 0.14)	0.08 (0.06 - 0.09)	0.08 (0.06 - 0.09)	0.05 (0.04 - 0.06)	
		UH	-	-	-	-	-	-	-	-
M	Ostenitli Paslanmaz Çelik (X5CrNi18-10, X5CrNiMo17-12-2)	≤200HB 130 (80 - 180)	US	-	-	-	0.08 (0.06 - 0.12)	0.06 (0.04 - 0.08)	0.06 (0.04 - 0.08)	0.05 (0.04 - 0.06)
			UM	0.06 (0.04 - 0.08)	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.06 (0.04 - 0.08)	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.04 (0.04 - 0.05)
	Ostenitli Paslanmaz Çelik (X2CrNiN18-9, X5CrNiMoN17-11-2)	>200HB 130 (80 - 180)	US	-	-	-	0.08 (0.06 - 0.12)	0.06 (0.04 - 0.08)	0.06 (0.04 - 0.08)	0.05 (0.04 - 0.06)
			UM	0.06 (0.04 - 0.08)	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.06 (0.04 - 0.08)	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.04 (0.04 - 0.05)
	Ferritik ve Martensitik Paslanmaz Çelik (X12Cr13, X6Cr17)	≤200HB 120 (80 - 165)	US	-	-	-	0.08 (0.06 - 0.12)	0.06 (0.04 - 0.08)	0.06 (0.04 - 0.08)	0.05 (0.04 - 0.06)
			UM	0.06 (0.04 - 0.08)	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.06 (0.04 - 0.08)	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.04 (0.04 - 0.05)
Ferritik ve Martensitik Paslanmaz Çelik (X17CrNi16-2, X30Cr13)	>200HB 120 (80 - 165)	US	-	-	-	0.08 (0.06 - 0.12)	0.06 (0.04 - 0.08)	0.06 (0.04 - 0.08)	0.05 (0.04 - 0.06)	
		UM	0.06 (0.04 - 0.08)	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.06 (0.04 - 0.08)	0.05 (0.04 - 0.06)	0.05 (0.04 - 0.06)	0.04 (0.04 - 0.05)	
K	Gri Dökme Demir (GG25, GG30)	Kopma Mukavemeti ≤350MPa 160 (130 - 195)	UM	0.10 (0.06 - 0.14)	0.08 (0.06 - 0.10)	0.08 (0.06 - 0.10)	0.11 (0.08 - 0.14)	0.09 (0.08 - 0.10)	0.09 (0.08 - 0.10)	0.05 (0.04 - 0.06)
	Duktil Dökme Demir (GGG40)	Kopma Mukavemeti ≤450MPa 100 (80 - 135)	UM	0.10 (0.06 - 0.14)	0.08 (0.06 - 0.10)	0.08 (0.06 - 0.10)	0.11 (0.08 - 0.14)	0.09 (0.08 - 0.10)	0.09 (0.08 - 0.10)	0.05 (0.04 - 0.06)
	Duktil Dökme Demir (GGG70)	Kopma Mukavemeti ≤800MPa 100 (70 - 125)	UM	0.08 (0.06 - 0.12)	0.07 (0.06 - 0.08)	0.07 (0.06 - 0.08)	0.11 (0.08 - 0.14)	0.09 (0.08 - 0.10)	0.09 (0.08 - 0.10)	0.05 (0.04 - 0.06)
N	Alüminyum Alaşım (A6061, A7075)	Si<5% 200 (100 - 350)	UN	-	-	-	0.12 (0.05 - 0.18)	0.12 (0.05 - 0.18)	0.12 (0.05 - 0.18)	0.08 (0.05 - 0.12)
	Alüminyum Alaşım (AC4B)	5%≤Si<10% 150 (100 - 200)	UN	-	-	-	0.12 (0.05 - 0.18)	0.12 (0.05 - 0.18)	0.12 (0.05 - 0.18)	0.08 (0.05 - 0.12)
	Alüminyum Alaşım (ADC12, A390)	Si>10% 150 (100 - 200)	UN	-	-	-	0.12 (0.05 - 0.18)	0.12 (0.05 - 0.18)	0.12 (0.05 - 0.18)	0.08 (0.05 - 0.12)
H	Sertleştirilmiş Çelik (X40CrMoV51, 55NiCrMoV6)	38 - 45HRC 50 (30 - 80)	UH	-	-	-	0.08 (0.04 - 0.12)	0.06 (0.04 - 0.09)	-	-

MVX + MİNİ MVX ÖNERİLEN KESME ŞARTLARI

Vc	İçerideki Uç Kırcısı	Ø20 - Ø23.5				Ø24 - Ø29.5				Ø30 - Ø63				
		f				f				f				
		LxDC=2-3	LxDC=4	LxDC=5	LxDC=6	LxDC=2-3	LxDC=4	LxDC=5	LxDC=6	LxDC=2-3	LxDC=4	LxDC=5	LxDC=6	
P	200 (180 - 235)	UM	0.06	0.06	0.06	0.04	0.07	0.06	0.06	0.05	0.08	0.07	0.07	0.06
		UH	[0.04 - 0.08]	[0.04 - 0.07]	[0.04 - 0.07]	[0.04 - 0.05]	[0.04 - 0.08]	[0.04 - 0.07]	[0.04 - 0.07]	[0.04 - 0.06]	[0.06 - 0.10]	[0.06 - 0.08]	[0.06 - 0.08]	[0.06 - 0.07]
	140 (115 - 180)	UM	0.10	0.09	0.09	0.07	0.12	0.10	0.10	0.09	0.14	0.12	0.12	0.11
		UH	[0.06 - 0.18]	[0.06 - 0.12]	[0.06 - 0.12]	[0.06 - 0.08]	[0.08 - 0.18]	[0.08 - 0.12]	[0.08 - 0.12]	[0.08 - 0.10]	[0.08 - 0.20]	[0.08 - 0.16]	[0.08 - 0.16]	[0.10 - 0.12]
100 (75 - 140)	UM	0.10	0.09	0.09	0.07	0.12	0.10	0.10	0.09	0.14	0.12	0.12	0.11	
	UH	[0.06 - 0.18]	[0.06 - 0.12]	[0.06 - 0.12]	[0.06 - 0.08]	[0.08 - 0.18]	[0.08 - 0.12]	[0.08 - 0.12]	[0.08 - 0.10]	[0.08 - 0.20]	[0.08 - 0.16]	[0.08 - 0.16]	[0.10 - 0.12]	
135 (100 - 170)	UM	0.10	0.09	0.09	0.07	0.12	0.10	0.10	0.09	0.14	0.12	0.12	0.10	
	UH	[0.06 - 0.18]	[0.06 - 0.12]	[0.06 - 0.12]	[0.06 - 0.08]	[0.08 - 0.18]	[0.08 - 0.12]	[0.08 - 0.12]	[0.08 - 0.10]	[0.08 - 0.20]	[0.08 - 0.16]	[0.08 - 0.16]	[0.08 - 0.12]	
M	130 (80 - 180)	US	0.10	0.07	0.07	0.06	0.10	0.08	0.08	0.07	0.10	0.09	0.09	0.07
		UM	[0.06 - 0.14]	[0.06 - 0.08]	[0.06 - 0.08]	[0.06 - 0.07]	[0.06 - 0.14]	[0.06 - 0.10]	[0.06 - 0.10]	[0.06 - 0.08]	[0.06 - 0.14]	[0.06 - 0.12]	[0.06 - 0.12]	[0.06 - 0.10]
	130 (80 - 180)	US	0.10	0.07	0.07	0.06	0.10	0.08	0.08	0.07	0.10	0.09	0.09	0.07
		UM	[0.06 - 0.14]	[0.06 - 0.08]	[0.06 - 0.08]	[0.06 - 0.07]	[0.06 - 0.14]	[0.06 - 0.10]	[0.06 - 0.10]	[0.06 - 0.08]	[0.06 - 0.14]	[0.06 - 0.12]	[0.06 - 0.12]	[0.06 - 0.10]
	120 (80 - 165)	US	0.10	0.07	0.07	0.06	0.10	0.08	0.08	0.07	0.10	0.09	0.09	0.07
		UM	[0.06 - 0.14]	[0.06 - 0.08]	[0.06 - 0.08]	[0.06 - 0.07]	[0.06 - 0.14]	[0.06 - 0.10]	[0.06 - 0.10]	[0.06 - 0.08]	[0.06 - 0.14]	[0.06 - 0.12]	[0.06 - 0.12]	[0.06 - 0.10]
	120 (80 - 165)	US	0.10	0.07	0.07	0.06	0.10	0.08	0.08	0.07	0.10	0.09	0.09	0.07
		UM	[0.06 - 0.14]	[0.06 - 0.08]	[0.06 - 0.08]	[0.06 - 0.07]	[0.06 - 0.14]	[0.06 - 0.10]	[0.06 - 0.10]	[0.06 - 0.08]	[0.06 - 0.14]	[0.06 - 0.12]	[0.06 - 0.12]	[0.06 - 0.10]
	160 (130 - 195)	UM	0.14	0.10	0.10	0.07	0.15	0.11	0.11	0.09	0.15	0.12	0.12	0.11
		UH	[0.10 - 0.18]	[0.10 - 0.12]	[0.10 - 0.12]	[0.06 - 0.08]	[0.10 - 0.20]	[0.10 - 0.13]	[0.10 - 0.13]	[0.08 - 0.10]	[0.10 - 0.20]	[0.10 - 0.13]	[0.10 - 0.13]	[0.10 - 0.12]
	100 (80 - 135)	UM	0.13	0.10	0.10	0.07	0.14	0.11	0.11	0.09	0.15	0.12	0.12	0.11
		UH	[0.10 - 0.16]	[0.10 - 0.11]	[0.10 - 0.11]	[0.06 - 0.08]	[0.10 - 0.18]	[0.10 - 0.12]	[0.10 - 0.12]	[0.08 - 0.10]	[0.10 - 0.20]	[0.10 - 0.13]	[0.10 - 0.13]	[0.10 - 0.12]
100 (70 - 125)	UM	0.13	0.10	0.10	0.07	0.14	0.11	0.11	0.09	0.15	0.12	0.12	0.11	
	UH	[0.10 - 0.16]	[0.10 - 0.11]	[0.10 - 0.11]	[0.06 - 0.08]	[0.10 - 0.18]	[0.10 - 0.12]	[0.10 - 0.12]	[0.08 - 0.10]	[0.10 - 0.20]	[0.10 - 0.13]	[0.10 - 0.13]	[0.10 - 0.12]	
N	200 (100 - 350)	UN	0.12	0.12	0.12	0.08	0.12	0.12	0.12	0.08	0.12	0.12	0.12	0.08
		UH	[0.05 - 0.18]	[0.05 - 0.18]	[0.05 - 0.18]	[0.05 - 0.12]	[0.05 - 0.18]	[0.05 - 0.18]	[0.05 - 0.18]	[0.05 - 0.12]	[0.05 - 0.20]	[0.05 - 0.18]	[0.05 - 0.18]	[0.05 - 0.12]
	150 (100 - 200)	UN	0.12	0.12	0.12	0.08	0.12	0.12	0.12	0.08	0.12	0.12	0.12	0.08
150 (100 - 200)	UN	0.12	0.12	0.12	0.08	0.12	0.12	0.12	0.08	0.12	0.12	0.12	0.08	
	UH	[0.05 - 0.18]	[0.05 - 0.18]	[0.05 - 0.18]	[0.05 - 0.12]	[0.05 - 0.18]	[0.05 - 0.18]	[0.05 - 0.18]	[0.05 - 0.12]	[0.05 - 0.20]	[0.05 - 0.18]	[0.05 - 0.18]	[0.05 - 0.12]	
H	50 (30 - 80)	UH	0.09	0.07	-	-	0.09	0.07	-	-	0.11	0.09	-	-
		UH	[0.06 - 0.14]	[0.06 - 0.09]	-	-	[0.06 - 0.14]	[0.06 - 0.09]	-	-	[0.06 - 0.16]	[0.06 - 0.012]	-	-

1. Dışarıdaki kesici uç kalitesi VP15TF olduğunda kesme hızını %30 oranında düşürün.
2. Dışarıdan soğutma suyu kullanıldığında maksimum derinlik L/D = 3 olarak önerilir.
3. Paslanmaz çeliğin delinmesinde içten soğutma sıvısı gereklidir.

AVRUPA SATIŞ ŞİRKETLERİ

GERMANY

MMC HARTMETALL GMBH
Comeniusstr. 2 . 40670 Meerbusch
Phone +49 2159 91890 . Fax +49 2159 918966
Email admin@mmchg.de

U.K.

MMC HARDMETAL U.K. LTD.
Mitsubishi House . Galena Close . Tamworth . Staffs. B77 4AS
Phone +44 1827 312312
Email sales@mitsubishicarbide.co.uk

SPAIN

MITSUBISHI MATERIALS ESPAÑA, S.A.
Calle Emperador 2 . 46136 Museros /Valencia
Phone +34 96 1441711 . Fax +34 96 1443786
Email comercial@mmevalencia.es

FRANCE

MMC METAL FRANCE S.A.R.L.
6, Rue Jacques Monod . 91400 Orsay
Phone +33 1 69 35 53 53 . Fax +33 1 69 35 53 50
Email mmfsales@mmc-metal-france.fr

POLAND

MMC HARDMETAL POLAND SP. Z O.O
Al. Armii Krajowej 61 . 50-541 Wrocław
Phone +48 71335 1620 . Fax +48 71335 1621
Email sales@mitsubishicarbide.com.pl

ITALY

MMC ITALIA S.R.L.
Viale Certosa 144 . 20156 Milano
Phone +39 0293 77031 . Fax +39 0293 589093
Email info@mmc-italia.it

TURKEY

MMC HARTMETALL GMBH ALMANYA - İZMİR MERKEZ ŞUBESİ
Adalet Mahallesi Anadolu Caddesi No: 41-1 . 15001 35530 Bayraklı /İzmir
Phone +90 232 5015000 . Fax +90 232 5015007
Email info@mmchg.com.tr

www.mmc-carbide.com

DAĞITICI:

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