

KARBÜR FREZELER

- Düz Karbür Frezeler
- Küre Karbür Frezeler
- Köşe Radius Karbür Frezeler
- Düz Rif Kanal Micro Karbür Frezeler
- Küre Rif Kanal Micro Karbür Frezeler
- Karbür Matkap Uçları
- Karbür Raybalar
- Karbür Pantoraf Kalemleri





HRC
▶ 40

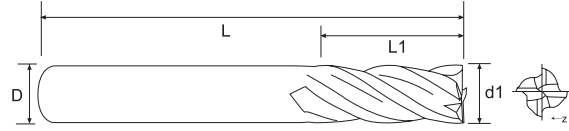
HRC
▶ 45

HRC
▶ 50

HRC
▶ 55

HRC
▶ 60

HRC
▶ 65



WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 μm

KOD	d1 (Çap)	L1 (Kesme Boyu)	L (Boy)	D (Şaft)
MSE0104 - TiSiN	1 mm	3 mm	50 mm	4 mm
MSE0154 - TiSiN	1.5 mm	4 mm	50 mm	4 mm
MSE0204 - TiSiN	2.0 mm	6 mm	50 mm	4 mm
MSE0254 - TiSiN	2.5 mm	8 mm	50 mm	4 mm
MSE0304 - TiSiN	3.0 mm	8 mm	50 mm	4 mm
MSE0354 - TiSiN	3.5 mm	10 mm	50 mm	4 mm
MSE0404 - TiSiN	4 mm	11 mm	50 mm	4 mm
SE0404 - TiSiN	4 mm	11 mm	50 mm	6 mm
SE0454 - TiSiN	4.5 mm	13 mm	50 mm	6 mm
SE0504 - TiSiN	5 mm	13 mm	50 mm	6 mm
SE0554 - TiSiN	5.5 mm	13 mm	50 mm	6 mm
SE0604 - TiSiN	6 mm	16 mm	50 mm	6 mm
SE0654 - TiSiN	6.5 mm	16 mm	60 mm	8 mm
SE0704 - TiSiN	7 mm	16 mm	60 mm	8 mm
SE0754 - TiSiN	7.5 mm	19 mm	60 mm	8 mm
SE0804 - TiSiN	8 mm	20 mm	60 mm	8 mm
SE0854 - TiSiN	8.5 mm	20 mm	75 mm	10 mm
SE0904 - TiSiN	9 mm	20 mm	75 mm	10 mm
SE0954 - TiSiN	9.5 mm	25 mm	75 mm	10 mm
SE1004 - TiSiN	10 mm	30 mm	75 mm	10 mm
SE1104 - TiSiN	11 mm	30 mm	75 mm	12 mm
SE1204 - TiSiN	12 mm	32 mm	75 mm	12 mm
SE1404 - TiSiN	14 mm	40 mm	100 mm	16 mm
SE1604 - TiSiN	16 mm	40 mm	100 mm	16 mm
SE1804 - TiSiN	18 mm	45 mm	100 mm	20 mm
SE2004 - TiSiN	20 mm	45 mm	100 mm	20 mm

Uygulama / Application

☉ Tavsiye / Recommend ○ Uygun / Suitable X Tavsiye Edilmez / Not Recommend

Karbon Çelik, Alaşımli Çelik carbon steel, Alloy steel	Önceden Sertleştirilmiş Çelik Pre-hardened steel		Yüksek Sertleştirilmiş High-hardened			Paslanmaz Çelik Stainless steel	Bakır Alaşım Copper alloy	Alüminyum Alaşım Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	☉	☉	○			○		



HRC
▶ 40

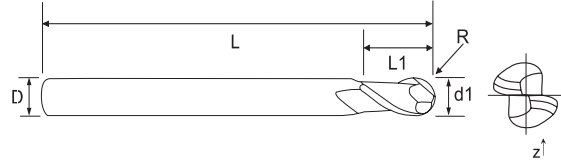
HRC
▶ 45

HRC
▶ 50

HRC
▶ 55

HRC
▶ 60

HRC
▶ 65



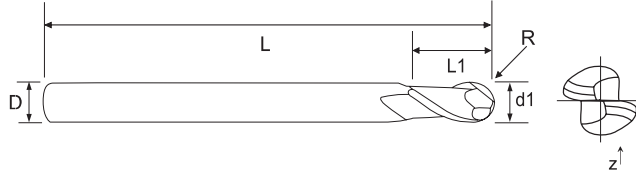
WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 μm

KOD	d1 (Çap)	R (Radius)	L1 (Kesme Boyu)	L (Boy)	D (Şaft)
MSB0102 - TİSİN	1 mm	0.5 mm	2 mm	50 mm	4 mm
MSB0152 - TİSİN	1.5 mm	0.75 mm	3 mm	50 mm	4 mm
MSB0202 - TİSİN	2.0 mm	1 mm	4 mm	50 mm	4 mm
MSB0252 - TİSİN	2.5 mm	1.25 mm	5 mm	50 mm	4 mm
MSB0302 - TİSİN	3.0 mm	1.5 mm	6 mm	50 mm	4 mm
MSB0352 - TİSİN	3.5 mm	1.75 mm	7 mm	50 mm	4 mm
MSB0402 - TİSİN	4 mm	2 mm	8 mm	50 mm	4 mm
SB0402 - TİSİN	4 mm	2 mm	8 mm	50 mm	6 mm
SB0452 - TİSİN	4.5mm	2.25 mm	9 mm	50 mm	6 mm
SB0502 - TİSİN	5 mm	2.5 mm	10 mm	50 mm	6 mm
SB0552 - TİSİN	5.5 mm	2.75 mm	11 mm	50 mm	6 mm
SB0602 - TİSİN	6 mm	3 mm	12 mm	50 mm	6 mm
SB0702 - TİSİN	7 mm	3.5 mm	14 mm	60 mm	8 mm
SB0802 - TİSİN	8 mm	4 mm	16 mm	60 mm	8 mm
SB0902 - TİSİN	9 mm	4.5 mm	18 mm	75 mm	10 mm
SB1002 - TİSİN	10 mm	5 mm	20 mm	75 mm	10 mm
SB1102 - TİSİN	11 mm	5.5 mm	22 mm	75 mm	12 mm
SB1202 - TİSİN	12 mm	6 mm	24 mm	75 mm	12 mm
SB1402 - TİSİN	14 mm	7 mm	28 mm	100 mm	16 mm
SB1602 - TİSİN	16 mm	8 mm	32 mm	100 mm	16 mm
SB1802 - TİSİN	18 mm	9 mm	36 mm	100 mm	20 mm
SB2002 - TİSİN	20 mm	10 mm	40 mm	100 mm	20 mm

Uygulama / Application

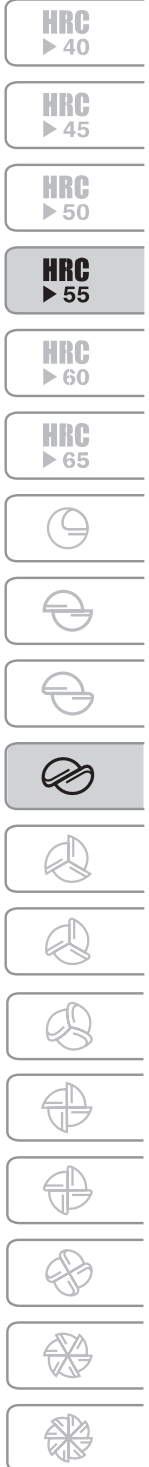
© Tavsiye / Recommend ○ Uygun / Suitable X Tavsiye Edilmez / Not Recommend

Karbon Çelik, Alaşımli Çelik carbon steel, Alloy steel	Önceden Sertleştirilmiş Çelik Pre-hardened steel		Yüksek Sertleştirilmiş High-hardened			Paslanmaz Çelik Stainless steel	Bakır Alaşım Copper alloy	Alüminyum Alaşım Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		



WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 μm

KOD	d1 (Çap)	R (Radius)	L1 (Kesme Boyu)	L (Boy)	D (Şaft)
SLB0102 - TİSİN	1 mm	0.5 mm	2 mm	75 mm	6 mm
MLB0102 - TİSİN	1 mm	0.5 mm	2 mm	100 mm	6 mm
SLB0152 - TİSİN	1.5 mm	0.75 mm	3 mm	75 mm	6 mm
MLB0152 - TİSİN	1.5 mm	0.75 mm	3 mm	100 mm	6 mm
SLB0202 - TİSİN	2 mm	1 mm	4 mm	75 mm	6 mm
MLB0202 - TİSİN	2 mm	1 mm	4 mm	100 mm	6 mm
SLB0252 - TİSİN	2.5 mm	1.25 mm	5 mm	75 mm	6 mm
MLB0252 - TİSİN	2.5 mm	1.25 mm	5 mm	100 mm	6 mm
SLB0302 - TİSİN	3 mm	1.5 mm	6 mm	75 mm	6 mm
MLB0302 - TİSİN	3 mm	1.5 mm	6 mm	100 mm	6 mm
MLB0352 - TİSİN	3.5 mm	1.75 mm	7 mm	100 mm	6 mm
SLB0402 - TİSİN	4 mm	2 mm	8 mm	75 mm	6 mm
MLB0402 - TİSİN	4 mm	2 mm	8 mm	100 mm	6 mm
SLB0502 - TİSİN	5 mm	2.5 mm	10 mm	75 mm	6 mm
MLB0502 - TİSİN	5 mm	2.5 mm	10 mm	100 mm	6 mm
SLB0602 - TİSİN	6 mm	3 mm	12 mm	75 mm	6 mm
MLB0602 - TİSİN	6 mm	3 mm	12 mm	100 mm	6 mm
LLB0602 - TİSİN	6 mm	3 mm	12 mm	150 mm	6 mm
SLB0802 - TİSİN	8 mm	4 mm	16 mm	75 mm	8 mm
MLB0802 - TİSİN	8 mm	4 mm	16 mm	100 mm	8 mm
LLB0802 - TİSİN	8 mm	4 mm	16 mm	150 mm	8 mm
MLB1002 - TİSİN	10 mm	5 mm	20 mm	100 mm	10 mm
LLB1002 - TİSİN	10 mm	5 mm	20 mm	150 mm	10 mm
XLB1002 - TİSİN	10 mm	5 mm	20 mm	200 mm	10 mm
MLB1202 - TİSİN	12 mm	6 mm	24 mm	100 mm	12 mm
LLB1202 - TİSİN	12 mm	6 mm	24 mm	150 mm	12 mm
XLB1202 - TİSİN	12 mm	6 mm	24 mm	200 mm	12 mm
LLB1602 - TİSİN	16 mm	8 mm	32 mm	150 mm	16 mm
XLB1602 - TİSİN	16 mm	8 mm	32 mm	200 mm	16 mm



Uygulama / Application

☉ Tavsiye / Recommend ○ Uygun / Suitable X Tavsiye Edilmez / Not Recommend

Karbon Çelik, Alaşımlı Çelik carbon steel, Alloy steel	Önceden Sertleştirilmiş Çelik Pre-hardened steel		Yüksek Sertleştirilmiş High-hardened			Paslanmaz Çelik Stainless steel	Bakır Alaşım Copper alloy	Alüminyum Alaşım Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	☉	☉	○			○		



HRC
▶ 40

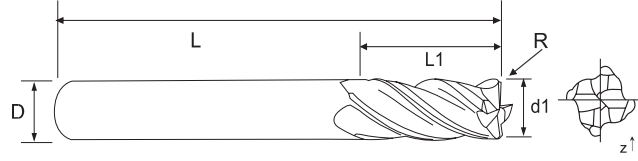
HRC
▶ 45

HRC
▶ 50

HRC
▶ 55

HRC
▶ 60

HRC
▶ 65



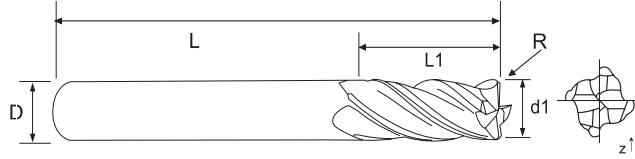
WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 μm

KOD	d1 (Çap)	R (Radius)	L1 (Kesme Boyu)	L (Boy)	D (Şaft)
RTA020024 - TİSİN	2 mm	0.2 mm	6 mm	50 mm	4 mm
RTA020034 - TİSİN	2 mm	0.3 mm	6 mm	50 mm	4 mm
RTA020054 - TİSİN	2 mm	0.5 mm	6 mm	50 mm	4 mm
RTA025024 - TİSİN	2.5 mm	0.2 mm	8 mm	50 mm	4 mm
RTA030024 - TİSİN	3 mm	0.2 mm	8 mm	50 mm	3 mm
RTA030034 - TİSİN	3 mm	0.3 mm	8 mm	50 mm	3 mm
RTA030054 - TİSİN	3 mm	0.5 mm	8 mm	50 mm	3 mm
RTA030104 - TİSİN	3 mm	1 mm	8 mm	50 mm	3 mm
RTA430024 - TİSİN	3 mm	0.2 mm	8 mm	50 mm	4 mm
RTA430034 - TİSİN	3 mm	0.3 mm	8 mm	50 mm	4 mm
RTA430054 - TİSİN	3 mm	0.5 mm	8 mm	50 mm	4 mm
RTA430104 - TİSİN	3 mm	1 mm	8 mm	50 mm	4 mm
RTA040024 - TİSİN	4 mm	0.2 mm	10 mm	50 mm	4 mm
RTA040034 - TİSİN	4 mm	0.3 mm	10 mm	50 mm	4 mm
RTA040054 - TİSİN	4 mm	0.5 mm	10 mm	50 mm	4 mm
RTA040104 - TİSİN	4 mm	1 mm	10 mm	50 mm	4 mm
RTA040154 - TİSİN	4 mm	1.5 mm	10 mm	50 mm	4 mm
RTA050024 - TİSİN	5 mm	0.2 mm	13 mm	50 mm	6 mm
RTA050034 - TİSİN	5 mm	0.3 mm	13 mm	50 mm	6 mm
RTA050054 - TİSİN	5 mm	0.5 mm	13 mm	50 mm	6 mm
RTA050104 - TİSİN	5 mm	1 mm	13 mm	50 mm	6 mm
RTA060024 - TİSİN	6 mm	0.2 mm	15 mm	50 mm	6 mm
RTA060034 - TİSİN	6 mm	0.3 mm	15 mm	50 mm	6 mm
RTA060054 - TİSİN	6 mm	0.5 mm	15 mm	50 mm	6 mm

Uygulama / Application

© Tavsiye / Recommend ○ Uygun / Suitable X Tavsiye Edilmez / Not Recommend

Karbon Çelik, Alaşımli Çelik carbon steel, Alloy steel	Önceden Sertleştirilmiş Çelik Pre-hardened steel		Yüksek Sertleştirilmiş High-hardened			Paslanmaz Çelik Stainless steel	Bakır Alaşım Copper alloy	Alüminyum Alaşım Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	©	©	○			○		



WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 μm

KOD	d1 (Çap)	R (Radius)	L1 (Kesme Boyu)	L (Boy)	D (Şaft)
RTA060104 - TİSİN	6 mm	1 mm	15 mm	50 mm	6 mm
RTA060154 - TİSİN	6 mm	1.5 mm	15 mm	50 mm	6 mm
RTA060204 - TİSİN	6 mm	2 mm	15 mm	50 mm	6 mm
RTA080034 - TİSİN	8 mm	0.3 mm	20 mm	60 mm	8 mm
RTA080054 - TİSİN	8 mm	0.5 mm	20 mm	60 mm	8 mm
RTA080104 - TİSİN	8 mm	1 mm	20 mm	60 mm	8 mm
RTA080154 - TİSİN	8 mm	1.5 mm	20 mm	60 mm	8 mm
RTA080204 - TİSİN	8 mm	2 mm	20 mm	60 mm	8 mm
RTA080254 - TİSİN	8 mm	2.5 mm	20 mm	60 mm	8 mm
RTA080304 - TİSİN	8 mm	3 mm	20 mm	60 mm	8 mm
RTA100034 - TİSİN	10 mm	0.3 mm	25 mm	75 mm	10 mm
RTA100054 - TİSİN	10 mm	0.5 mm	25 mm	75 mm	10 mm
RTA100104 - TİSİN	10 mm	1 mm	25 mm	75 mm	10 mm
RTA100154 - TİSİN	10 mm	1.5 mm	25 mm	75 mm	10 mm
RTA100204 - TİSİN	10 mm	2 mm	25 mm	75 mm	10 mm
RTA100254 - TİSİN	10 mm	2.5 mm	25 mm	75 mm	10 mm
RTA100304 - TİSİN	10 mm	3 mm	25 mm	75 mm	10 mm
RTA120034 - TİSİN	12 mm	0.3 mm	30 mm	75 mm	12 mm
RTA120054 - TİSİN	12 mm	0.5 mm	30 mm	75 mm	12 mm
RTA120104 - TİSİN	12 mm	1 mm	30 mm	75 mm	12 mm
RTA120154 - TİSİN	12 mm	1.5 mm	30 mm	75 mm	12 mm
RTA120204 - TİSİN	12 mm	2 mm	30 mm	75 mm	12 mm
RTA120254 - TİSİN	12 mm	2.5 mm	30 mm	75 mm	12 mm
RTA120304 - TİSİN	12 mm	3 mm	30 mm	75 mm	12 mm

HRC
▶ 40

HRC
▶ 45

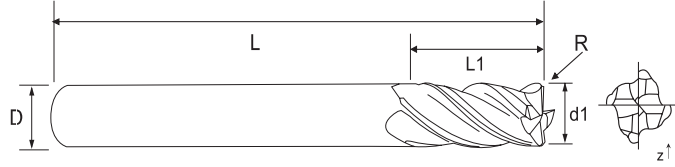
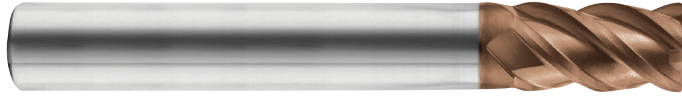
HRC
▶ 50

HRC
▶ 55

HRC
▶ 60

HRC
▶ 65





WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 μm

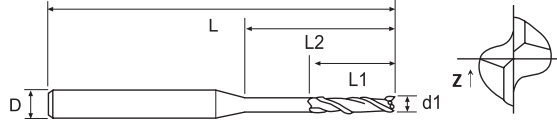
KOD	d1 (Çap)	R (Radius)	L1 (Kesme Boyu)	L (Boy)	D (Şaft)
LRTA030034 - TiSiN	3 mm	0.3 mm	8 mm	75 mm	3 mm
LRTA030054 - TiSiN	3 mm	0.5 mm	8 mm	75 mm	3 mm
LRTA030104 - TiSiN	3 mm	1 mm	8 mm	75 mm	3 mm
LRTA040034 - TiSiN	4 mm	0.3 mm	10 mm	75 mm	4 mm
LRTA040054 - TiSiN	4 mm	0.5 mm	10 mm	75 mm	4 mm
LRTA040104 - TiSiN	4 mm	1 mm	10 mm	75 mm	4 mm
LRTA040154 - TiSiN	4 mm	1.5 mm	10 mm	75 mm	4 mm
LRTA060034 - TiSiN	6 mm	0.3 mm	15 mm	100 mm	6 mm
LRTA060054 - TiSiN	6 mm	0.5 mm	15 mm	100 mm	6 mm
LRTA060104 - TiSiN	6 mm	1 mm	15 mm	100 mm	6 mm
LRTA060154 - TiSiN	6 mm	1.5 mm	15 mm	100 mm	6 mm
LRTA060204 - TiSiN	6 mm	2 mm	15 mm	100 mm	6 mm
LRTA080034 - TiSiN	8 mm	0.3 mm	20 mm	100 mm	8 mm
LRTA080054 - TiSiN	8 mm	0.5 mm	20 mm	100 mm	8 mm
LRTA080104 - TiSiN	8 mm	1 mm	20 mm	100 mm	8 mm
LRTA080154 - TiSiN	8 mm	1.5 mm	20 mm	100 mm	8 mm
LRTA080204 - TiSiN	8 mm	2 mm	20 mm	100 mm	8 mm
LRTA080254 - TiSiN	8 mm	2.5 mm	20 mm	100 mm	8 mm
LRTA080304 - TiSiN	8 mm	3 mm	20 mm	100 mm	8 mm
LRTA100034 - TiSiN	10 mm	0.3 mm	25 mm	100 mm	10 mm
LRTA100054 - TiSiN	10 mm	0.5 mm	25 mm	100 mm	10 mm
LRTA100104 - TiSiN	10 mm	1 mm	25 mm	100 mm	10 mm
LRTA100154 - TiSiN	10 mm	1.5 mm	25 mm	100 mm	10 mm
LRTA100204 - TiSiN	10 mm	2 mm	25 mm	100 mm	10 mm
LRTA100254 - TiSiN	10 mm	2.5 mm	25 mm	100 mm	10 mm
LRTA100304 - TiSiN	10 mm	3 mm	25 mm	100 mm	10 mm
LRTA120034 - TiSiN	12 mm	0.3 mm	30 mm	100 mm	12 mm
LRTA120054 - TiSiN	12 mm	0.5 mm	30 mm	100 mm	12 mm
LRTA120104 - TiSiN	12 mm	1 mm	30 mm	100 mm	12 mm
LRTA120154 - TiSiN	12 mm	1.5 mm	30 mm	100 mm	12 mm
LRTA120204 - TiSiN	12 mm	2 mm	30 mm	100 mm	12 mm
LRTA120254 - TiSiN	12 mm	2.5 mm	30 mm	100 mm	12 mm
LRTA120304 - TiSiN	12 mm	3 mm	30 mm	100 mm	12 mm



Uygulama / Application

© Tavsiye / Recommend ○ Uygun / Suitable X Tavsiye Edilmez / Not Recommend

Karbon Çelik, Alaşımli Çelik carbon steel, Alloy steel	Önceden Sertleştirilmiş Çelik Pre-hardened steel		Yüksek Sertleştirilmiş High-hardened			Paslanmaz Çelik Stainless steel	Bakır Alaşım Copper alloy	Alüminyum Alaşım Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		



WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m

KOD	d1 (Çap)	R (Radius)	L1 Kesme Boyu	L2	L (Boy)	D (Şaft)
SFUCR100012 - TİSİN	1 mm	0.1 - 0.2 - 0.3 mm	1 mm	2 mm	50 mm	4 mm
SFUCR100014 - TİSİN	1 mm	0.1 - 0.2 - 0.3 mm	1 mm	4 mm	50 mm	4 mm
SFUCR100016 - TİSİN	1 mm	0.1 - 0.2 - 0.3 mm	1 mm	6 mm	50 mm	4 mm
SFUCR100018 - TİSİN	1 mm	0.1 - 0.2 - 0.3 mm	1 mm	8 mm	50 mm	4 mm
SFUCR100110 - TİSİN	1 mm	0.1 - 0.2 - 0.3 mm	1 mm	10 mm	50 mm	4 mm
SFUCR100112 - TİSİN	1 mm	0.1 - 0.2 - 0.3 mm	1 mm	12 mm	60 mm	4 mm
SFUCR100116 - TİSİN	1 mm	0.1 - 0.2 - 0.3 mm	1 mm	16 mm	60 mm	4 mm
SFUCR100120 - TİSİN	1 mm	0.1 - 0.2 - 0.3 mm	1 mm	20 mm	60 mm	4 mm
SFUCR1200126 - TİSİN	1.2 mm	0.2 - 0.3 mm	1.2 mm	6 mm	50 mm	4 mm
SFUCR1200126 - TİSİN	1.2 mm	0.2 - 0.3 mm	1.2 mm	12 mm	60 mm	4 mm
SFUCR1201220 - TİSİN	1.2 mm	0.2 - 0.3 mm	1.2 mm	20 mm	60 mm	4 mm
SFUCR1500154 - TİSİN	1.5 mm	0.2 - 0.3 - 0.5 mm	1.5 mm	4 mm	50 mm	4 mm
SFUCR1500156 - TİSİN	1.5 mm	0.2 - 0.3 - 0.5 mm	1.5 mm	6 mm	50 mm	4 mm
SFUCR1500158 - TİSİN	1.5 mm	0.2 - 0.3 - 0.5 mm	1.5 mm	8 mm	50 mm	4 mm
SFUCR1501510 - TİSİN	1.5 mm	0.2 - 0.3 - 0.5 mm	1.5 mm	10 mm	50 mm	4 mm
SFUCR1501512 - TİSİN	1.5 mm	0.2 - 0.3 - 0.5 mm	1.5 mm	12 mm	60 mm	4 mm
SFUCR1501516 - TİSİN	1.5 mm	0.2 - 0.3 - 0.5 mm	1.5 mm	16 mm	60 mm	4 mm
SFUCR1501520 - TİSİN	1.5 mm	0.2 - 0.3 - 0.5 mm	1.5 mm	20 mm	60 mm	4 mm
SFUCR200024 - TİSİN	2.0 mm	0.1 - 0.2 - 0.3 - 0.5 mm	2.0 mm	4 mm	50 mm	4 mm
SFUCR200026 - TİSİN	2.0 mm	0.1 - 0.2 - 0.3 - 0.5 mm	2.0 mm	6 mm	50 mm	4 mm
SFUCR200028 - TİSİN	2.0 mm	0.1 - 0.2 - 0.3 - 0.5 mm	2.0 mm	8 mm	50 mm	4 mm
SFUCR200210 - TİSİN	2.0 mm	0.1 - 0.2 - 0.3 - 0.5 mm	2.0 mm	10 mm	50 mm	4 mm
SFUCR200212 - TİSİN	2.0 mm	0.1 - 0.2 - 0.3 - 0.5 mm	2.0 mm	12 mm	60 mm	4 mm
SFUCR200216 - TİSİN	2.0 mm	0.1 - 0.2 - 0.3 - 0.5 mm	2.0 mm	16 mm	60 mm	4 mm
SFUCR200220 - TİSİN	2.0 mm	0.1 - 0.2 - 0.3 - 0.5 mm	2.0 mm	20 mm	60 mm	4 mm
SFUCR200226 - TİSİN	2.0 mm	0.1 - 0.2 - 0.3 - 0.5 mm	2.0 mm	26 mm	75 mm	4 mm
SFUCR2502510 - TİSİN	2.5 mm	0.3 - 0.5 mm	2.5 mm	10 mm	50 mm	4 mm
SFUCR2502520 - TİSİN	2.5 mm	0.3 - 0.5 mm	2.5 mm	20 mm	60 mm	4 mm
SFUCR2502530 - TİSİN	2.5 mm	0.3 - 0.5 mm	2.5 mm	30 mm	75 mm	4 mm
SFUCR300036 - TİSİN	3.0 mm	0.1 - 0.2 - 0.3 - 0.5 - 1 mm	3.0 mm	6 mm	60 mm	4 mm
SFUCR300316 - TİSİN	3.0 mm	0.1 - 0.2 - 0.3 - 0.5 - 1 mm	3.0 mm	16 mm	60 mm	6 mm
SFUCR300326 - TİSİN	3.0 mm	0.1 - 0.2 - 0.3 - 0.5 - 1 mm	3.0 mm	26 mm	75 mm	6 mm
SFUCR300336 - TİSİN	3.0 mm	0.1 - 0.2 - 0.3 - 0.5 - 1 mm	3.0 mm	36 mm	75 mm	6 mm

HRC
▶ 40

HRC
▶ 45

HRC
▶ 50

HRC
▶ 55

HRC
▶ 60

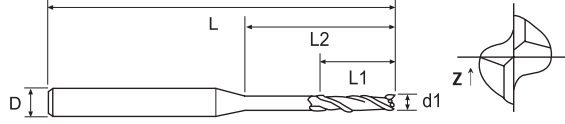
HRC
▶ 65



Uygulama / Application

☉ Tavsiye / Recommend ○ Uygun / Suitable X Tavsiye Edilmez / Not Recommend

Karbon Çelik, Alaşım Çelik carbon steel, Alloy steel	Önceden Sertleştirilmiş Çelik Pre-hardened steel		Yüksek Sertleştirilmiş High-hardened			Paslanmaz Çelik Stainless steel	Bakır Alaşım Copper alloy	Alüminyum Alaşım Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	☉	☉	○			○		



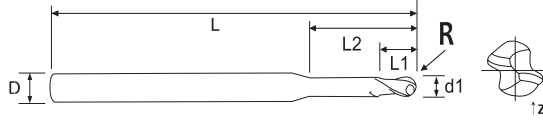
WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 μm

KOD	d1 (Çap)	L1 (Kesme Boyu)	L2	L (Boy)	D (Şaft)
LNT05022 - TİSİN	0.5 mm	0.75 mm	2 mm	50 mm	4 mm
LNT05042 - TİSİN	0.5 mm	0.75 mm	4 mm	50 mm	4 mm
LNT05062 - TİSİN	0.5 mm	0.75 mm	6 mm	50 mm	4 mm
LNT06022 - TİSİN	0.6 mm	0.9 mm	2 mm	50 mm	4 mm
LNT06042 - TİSİN	0.6 mm	0.9 mm	4 mm	50 mm	4 mm
LNT06062 - TİSİN	0.6 mm	0.9 mm	6 mm	50 mm	4 mm
LNT08042 - TİSİN	0.8 mm	1.2 mm	4 mm	50 mm	4 mm
LNT08062 - TİSİN	0.8 mm	1.2 mm	6 mm	50 mm	4 mm
LNT08082 - TİSİN	0.8 mm	1.2 mm	8 mm	50 mm	4 mm
LNT10062 - TİSİN	1 mm	1.5 mm	6 mm	50 mm	4 mm
LNT10082 - TİSİN	1 mm	1.5 mm	8 mm	50 mm	4 mm
LNT10102 - TİSİN	1 mm	1.5 mm	10 mm	50 mm	4 mm
LNT10122 - TİSİN	1 mm	1.5 mm	12 mm	50 mm	4 mm
LNT10162 - TİSİN	1 mm	1.5 mm	16 mm	50 mm	4 mm
LNT15062 - TİSİN	1.5 mm	2.3 mm	6 mm	50 mm	4 mm
LNT15082 - TİSİN	1.5 mm	2.3 mm	8 mm	50 mm	4 mm
LNT15102 - TİSİN	1.5 mm	2.3 mm	10 mm	50 mm	4 mm
LNT15122 - TİSİN	1.5 mm	2.3 mm	12 mm	50 mm	4 mm
LNT15142 - TİSİN	1.5 mm	2.3 mm	14 mm	50 mm	4 mm
LNT15162 - TİSİN	1.5 mm	2.3 mm	16 mm	50 mm	4 mm
LNT15182 - TİSİN	1.5 mm	2.3 mm	18 mm	50 mm	4 mm
LNT15202 - TİSİN	1.5 mm	2.3 mm	20 mm	50 mm	4 mm
LNT20082 - TİSİN	2 mm	3 mm	8 mm	50 mm	4 mm
LNT20102 - TİSİN	2 mm	3 mm	10 mm	50 mm	4 mm
LNT20122 - TİSİN	2 mm	3 mm	12 mm	50 mm	4 mm
LNT20142 - TİSİN	2 mm	3 mm	14 mm	50 mm	4 mm
LNT20162 - TİSİN	2 mm	3 mm	16 mm	50 mm	4 mm
LNT20182 - TİSİN	2 mm	3 mm	18 mm	50 mm	4 mm
LNT20202 - TİSİN	2 mm	3 mm	20 mm	50 mm	4 mm
LNT25082 - TİSİN	2.5 mm	4 mm	8 mm	50 mm	4 mm
LNT25102 - TİSİN	2.5 mm	4 mm	10 mm	50 mm	4 mm
LNT25122 - TİSİN	2.5 mm	4 mm	12 mm	50 mm	4 mm
LNT25142 - TİSİN	2.5 mm	4 mm	14 mm	50 mm	4 mm
LNT25162 - TİSİN	2.5 mm	4 mm	16 mm	50 mm	4 mm
LNT25202 - TİSİN	2.5 mm	4 mm	20 mm	50 mm	4 mm
LNT30102 - TİSİN	3 mm	4.5 mm	10 mm	50 mm	6 mm
LNT30122 - TİSİN	3 mm	4.5 mm	12 mm	50 mm	6 mm
LNT30162 - TİSİN	3 mm	4.5 mm	16 mm	60 mm	6 mm
LNT30202 - TİSİN	3 mm	4.5 mm	20 mm	60 mm	6 mm
LNT30252 - TİSİN	3 mm	4.5 mm	25 mm	75 mm	6 mm

Uygulama / Application

☉ Tavsiye / Recommend ○ Uygun / Suitable X Tavsiye Edilmez / Not Recommend

Karbon Çelik, Alaşımlı Çelik carbon steel, Alloy steel	Önceden Sertleştirilmiş Çelik Pre-hardened steel		Yüksek Sertleştirilmiş High-hardened			Paslanmaz Çelik Stainless steel	Bakır Alaşım Copper alloy	Alüminyum Alaşım Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	☉	☉	○			○		



WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6 m

KOD	d1 (Çap)	R (Radius)	L1 (Kesme Boyu)	L2	L (Boy)	D (Şaft)
LNBT05022 - TiSiN	0.5 mm	0.25 mm	0.75 mm	2 mm	50 mm	4 mm
LNBT05042 - TiSiN	0.5 mm	0.25 mm	0.75 mm	4 mm	50 mm	4 mm
LNBT05062 - TiSiN	0.5 mm	0.25 mm	0.75 mm	6 mm	50 mm	4 mm
LNBT06022 - TiSiN	0.6 mm	0.3 mm	0.9 mm	2 mm	50 mm	4 mm
LNBT06042 - TiSiN	0.6 mm	0.3 mm	0.9 mm	4 mm	50 mm	4 mm
LNBT06062 - TiSiN	0.6 mm	0.3 mm	0.9 mm	6 mm	50 mm	4 mm
LNBT08042 - TiSiN	0.8 mm	0.4 mm	1.2 mm	4 mm	50 mm	4 mm
LNBT08062 - TiSiN	0.8 mm	0.4 mm	1.2 mm	6 mm	50 mm	4 mm
LNBT08082 - TiSiN	0.8 mm	0.4 mm	1.2 mm	8 mm	50 mm	4 mm
LNBT10062 - TiSiN	1 mm	0.5 mm	1.5 mm	6 mm	50 mm	4 mm
LNBT10082 - TiSiN	1 mm	0.5 mm	1.5 mm	8 mm	50 mm	4 mm
LNBT10102 - TiSiN	1 mm	0.5 mm	1.5 mm	10 mm	50 mm	4 mm
LNBT10122 - TiSiN	1 mm	0.5 mm	1.5 mm	12 mm	50 mm	4 mm
LNBT15062 - TiSiN	1.5 mm	0.75 mm	2.3 mm	6 mm	50 mm	4 mm
LNBT15082 - TiSiN	1.5 mm	0.75 mm	2.3 mm	8 mm	50 mm	4 mm
LNBT15102 - TiSiN	1.5 mm	0.75 mm	2.3 mm	10 mm	50 mm	4 mm
LNBT15122 - TiSiN	1.5 mm	0.75 mm	2.3 mm	12 mm	50 mm	4 mm
LNBT15142 - TiSiN	1.5 mm	0.75 mm	2.3 mm	14 mm	50 mm	4 mm
LNBT15162 - TiSiN	1.5 mm	0.75 mm	2.3 mm	16 mm	50 mm	4 mm
LNBT15182 - TiSiN	1.5 mm	0.75 mm	2.3 mm	18 mm	50 mm	4 mm
LNBT15202 - TiSiN	1.5 mm	0.75 mm	2.3 mm	20 mm	50 mm	4 mm
LNBT20082 - TiSiN	2 mm	1 mm	3 mm	8 mm	50 mm	4 mm
LNBT20102 - TiSiN	2 mm	1 mm	3 mm	10 mm	50 mm	4 mm
LNBT20122 - TiSiN	2 mm	1 mm	3 mm	12 mm	50 mm	4 mm
LNBT20142 - TiSiN	2 mm	1 mm	3 mm	14 mm	50 mm	4 mm
LNBT20162 - TiSiN	2 mm	1 mm	3 mm	16 mm	50 mm	4 mm
LNBT20182 - TiSiN	2 mm	1 mm	3 mm	18 mm	50 mm	4 mm
LNBT20202 - TiSiN	2 mm	1 mm	3 mm	20 mm	50 mm	4 mm
LNBT25082 - TiSiN	2.5 mm	1.25 mm	4 mm	8 mm	50 mm	4 mm
LNBT25122 - TiSiN	2.5 mm	1.25 mm	4 mm	12 mm	50 mm	4 mm
LNBT25162 - TiSiN	2.5 mm	1.25 mm	4 mm	16 mm	50 mm	4 mm
LNBT25202 - TiSiN	2.5 mm	1.25 mm	4 mm	20 mm	50 mm	4 mm
LNBT30102 - TiSiN	3 mm	1.5 mm	4.5 mm	10 mm	50 mm	6 mm
LNBT30122 - TiSiN	3 mm	1.5 mm	4.5 mm	12 mm	50 mm	6 mm
LNBT30162 - TiSiN	3 mm	1.5 mm	4.5 mm	16 mm	60 mm	6 mm
LNBT30202 - TiSiN	3 mm	1.5 mm	4.5 mm	20 mm	60 mm	6 mm
LNBT30252 - TiSiN	3 mm	1.5 mm	4.5 mm	25 mm	75 mm	6 mm

HRC
▶ 40

HRC
▶ 45

HRC
▶ 50

HRC
▶ 55

HRC
▶ 60

HRC
▶ 65

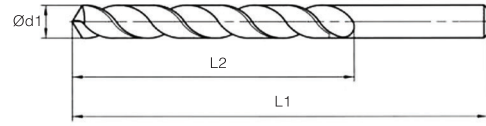


Uygulama / Application

© Tavsiye / Recommend ○ Uygun / Suitable X Tavsiye Edilmez / Not Recommend

Karbon Çelik, Alaşımli Çelik carbon steel, Alloy steel	Onceden Sertleştirilmiş Çelik Pre-hardened steel	Yüksek Sertleştirilmiş High-hardened				Paslanmaz Çelik Stainless steel	Bakır Alaşım Copper alloy	Alüminyum Alaşım Aluminum alloy
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		

STANDART BOY

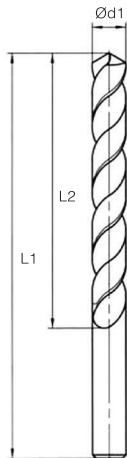


d1 (mm)	L2	L1
0.5	3	20
1.0	6	26
1.5	9	32
2.0	12	38
2.1	12	38
2.2	13	40
2.3	13	40
2.4	13	40
2.5	13	43
2.6	14	43
2.7	14	46
2.8	16	46
2.9	16	46
3.0	16	46
3.1	18	49
3.2	18	49
3.3	18	49
3.4	20	52
3.5	20	52
3.6	20	52
3.7	20	52
3.8	22	55
3.9	22	55
4.0	22	55
4.1	22	55
4.2	22	55
4.3	24	58
4.4	24	58
4.5	24	58
4.6	24	58
4.7	24	58
4.8	24	58
4.9	24	58
5.0	56	62

d1 (mm)	L2	L1
5.1	26	62
5.2	26	62
5.3	26	62
5.4	26	62
5.5	28	66
5.6	28	66
5.7	28	66
5.8	28	66
5.9	28	66
6.0	28	66
6.1	31	70
6.2	31	70
6.3	31	70
6.4	31	70
6.5	31	70
6.6	31	70
6.7	31	70
6.8	31	70
6.9	34	74
7.0	34	74
7.1	34	74
7.2	34	74
7.3	34	74
7.4	34	74
7.5	34	74
7.6	37	79
7.7	37	79
7.8	37	79
7.9	37	79
8.0	37	79
8.1	37	79
8.2	37	79
8.3	37	79
8.4	37	79

d1 (mm)	L2	L1
8.5	37	79
8.6	37	79
8.7	37	79
8.8	37	79
8.9	37	79
9.0	40	84
9.1	40	84
9.2	40	84
9.3	40	84
9.4	40	84
9.5	40	84
9.6	40	84
9.7	43	89
9.8	43	89
9.9	43	89
10.0	43	89
10.2	43	89
10.5	43	89
11.0	47	95
11.5	47	95
12.0	51	102
12.5	51	102
13.0	51	102
13.5	51	102
14.0	54	107
14.5	54	107
15.0	56	111
15.5	56	111
16.0	58	115
17.0	62	123
18.0	62	123
20.0	66	131

UZUN BOY



d1 (mm)	L2	L1
1	12	34
1.5	18	40
2	24	49
2.5	30	57
3	33	61
3.5	39	70
4	43	75
4.5	47	80
5	52	86
5.5	57	93
6	57	93
6.5	63	101
7	69	109
7.5	69	109
8	75	117
8.5	75	117
9	81	125

d1 (mm)	L2	L1
9.5	81	125
10	87	133
10.5	87	133
11	94	142
11.5	94	142
12	101	151
12.5	101	151
13	101	151
13.5	101	151
14	120	175
14.5	120	175
15	120	175
16	120	175
17	120	175
18	120	175
19	120	175
20	120	175

Model : HJMR



Sipariş Kodu	D (çap)	Lc (Kesme Boyu)	L (Tam Boy)	Z (Ağız Adedi)
HJMR 1	1,0	6	34	4
HJMR 1,5	1,5	8	40	4
HJMR 2	2,0	11	49	4
HJMR 2,5	2,5	14	57	4
HJMR 3	3,0	15	61	4
HJMR 4	4,0	19	75	4
HJMR 5	5,0	23	86	6
HJMR 6	6,0	26	93	6
HJMR 8	8,0	33	117	6
HJMR 10	10,0	38	133	6
HJMR 12	12,0	44	151	6

MG Carbide



GR.1 Çelikler

GR.2 Paslanmaz

GR.6 Metal

GR.7 Titanyum

GR.10 Alüminyum



GR.3 <48 HRC

GR.4 48-56 HRC

GR.8 Nikel

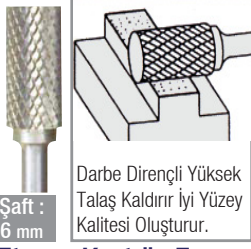
GR.9 Bakır

Karbür Pantoraf Kalemi

Model : HJP



Sipariş Kodu	D (çap)	L (Tam Boy)
HJP 1	1,0	100
HJP 1,5	1,5	100
HJP 2	2,0	100
HJP 2,5	2,5	100
HJP 3	3,0	100
HJP 4	4,0	100
HJP 5	5,0	100
HJP 6	6,0	100
HJP 8	8,0	100
HJP 10	10,0	100
HJP 12	12,0	100



Şaft :
6 mm

Elmas Karbür Freze

Silindirik Freze

Kod : SA

KOD	d	d1	L1	L
SA-06	6	6	16	65
SA-08		8	20	65
SA-10		10	20	65
SA-12		12	25	65
SA-16		16	25	65



Şaft :
6 mm

Elmas Karbür Freze

Sivri Uçlu Freze

Kod : SG

KOD	d	d1	L1	L
SG-06	6	6	18	65
SG-08		8	20	65
SG-10		10	20	65
SG-12		12	25	65
SG-16		16	25	65



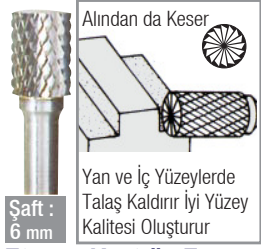
Şaft :
6 mm

Elmas Karbür Freze

Küre Uçlu Konik

Kod : SL

KOD	d	d1	L1	L
SL-06	6	6	16	65
SL-08		8	22	65
SL-10		10	25	65
SL-12		12	28	80
SL-16		16	33	80



Şaft :
6 mm

Elmas Karbür Freze

Tepe Kesicili Silindirik

Kod : SB

KOD	d	d1	L1	L
SB-06	6	6	16	65
SB-08		8	20	65
SB-10		10	20	65
SB-12		12	25	65
SB-16		16	25	65



Şaft :
6 mm

Elmas Karbür Freze

Oval Şekilli Freze

Kod : SH

KOD	d	d1	L1	L
SH-06	6	6	18	65
SH-08		8	20	65
SH-10		10	25	65
SH-12		12	32	80
SH-16		16	36	80



Şaft :
6 mm

Elmas Karbür Freze

Küre Uçlu Çam

Kod : SF

KOD	d	d1	L1	L
SF-06	6	6	18	65
SF-08		8	20	65
SF-10		10	20	65
SF-12		12	25	65
SF-16		16	25	65



Şaft :
6 mm

Elmas Karbür Freze

Radyüs Uçlu, Silindirik

Kod : SC

KOD	d	d1	L1	L
SC-06	6	6	16	65
SC-08		8	20	65
SC-10		10	20	65
SC-12		12	25	65
SC-16		16	25	65



Şaft :
6 mm

Elmas Karbür Freze

Top Şekilli Karbür Frezeler

Kod : SD

KOD	d	d1	L1	L
SD-06	6	6	5	65
SD-08		8	7	65
SD-10		10	9	65
SD-12		12	10	65
SD-16		16	14	65



Şaft :
6 mm

Elmas Karbür Freze

Konik Sivri Freze

Kod : SM

KOD	d	d1	L1	L
SM-06	6	6	18	65
SM-08		8	20	65
SM-10		10	20	65
SM-12		12	25	65
SM-16		16	25	65