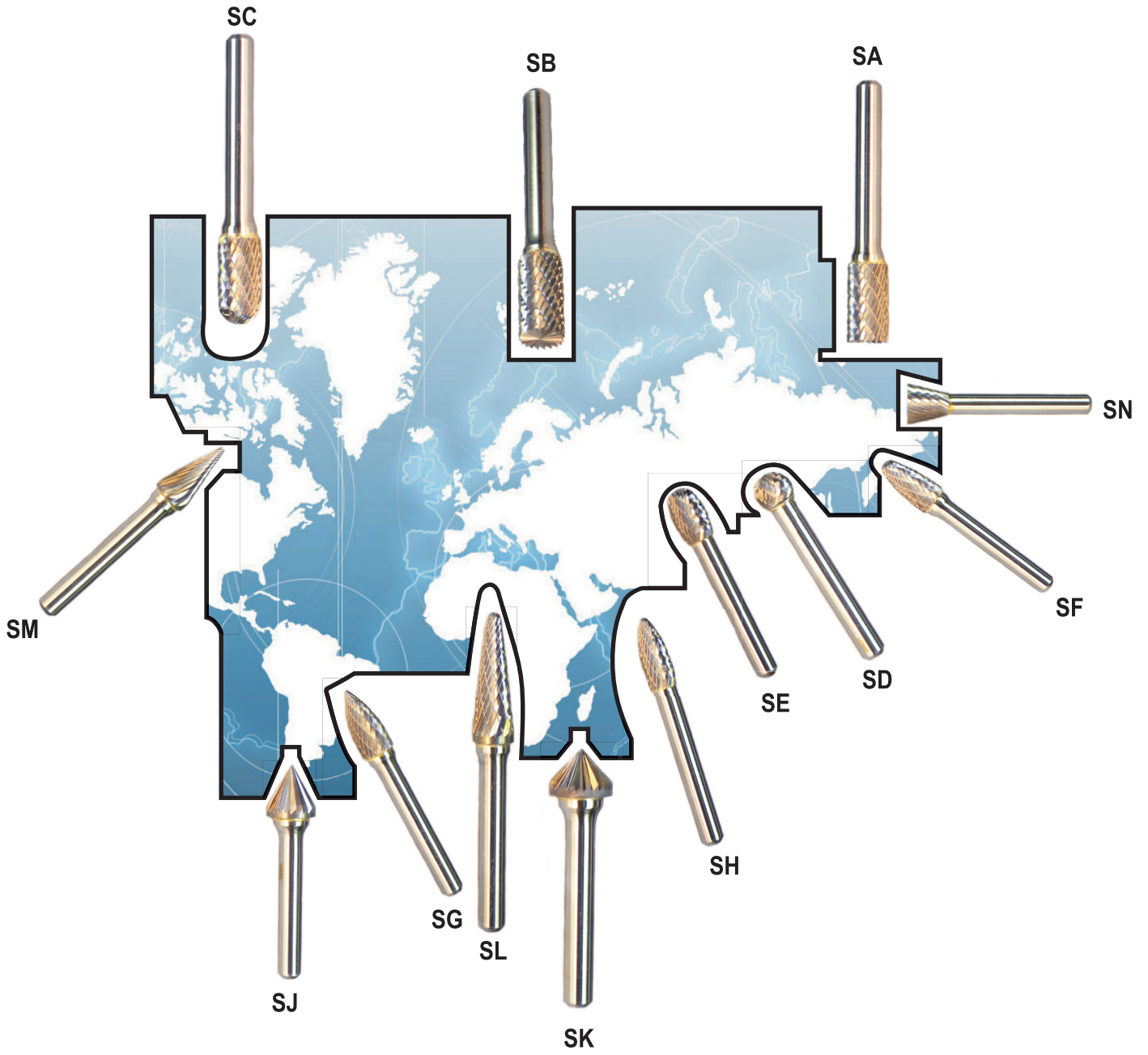
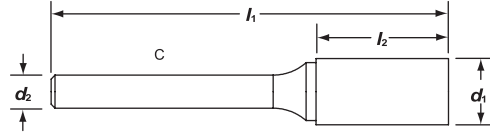
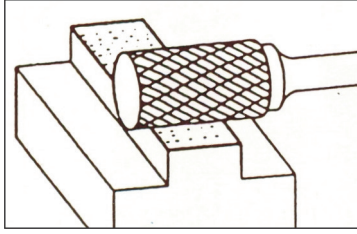


# KALIPÇI FREZE KULLANIM ALANLARI



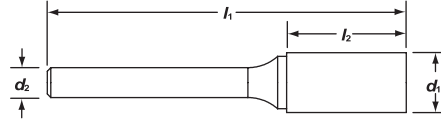
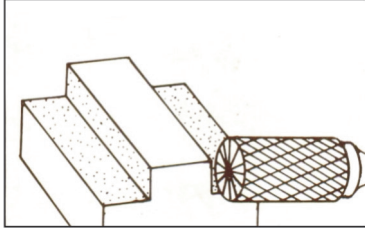


SA

KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD
SA-41M*	1,5	6	3	38	M00101		M00100	M00104		M00103		M00102	
SA-42M*	2,5	11	3	38	M00201		M00200	M00204		M00203		M00202	
SA-43M*	3	14	3	38	M00301		M00300	M00304		M00303		M00302	
SA-51M	6,3	12,7	3	50	M00401		M00400	M00404		M00403		M00402	
SA-12M*	3	12,7	6	60	M00601		M00600	M00604		M00603		M00602	
SA-14M*	5	16	6	50	M00701		M00700	M00704		M00703		M00702	
SA-1M*	6	16	6	50	M00801		M00800	M00804		M00803		M00802	
SA-1ML6	6	12,7	6	162	M00861		M00860	M00864		M00863		M00862	
SA-1MA*	6	25	6	50	M00901		M00900	M00904		M00903		M00902	
SA-2M	8	19	6	63	M01001		M01000	M01004		M01003		M01002	
SA-2MA	8	25	6	64	M01101		M01100	M01104		M01103		M01102	
SA-3M	9,5	19	6	63	M01201		M01200	M01204		M01203		M01202	
SA-3ML6	9,5	19	6	169	M01261		M01260	M01264		M01263		M01262	
SA-3MA	9,5	25	6	69	M01301		M01300	M01304		M01303		M01302	
SA-3MB	9,5	38	6	70	M01401		M01400	M01404		M01403		M01402	
SA-4M	11	25	6	69	M01501		M01500	M01504		M01503		M01502	
SA-5M	12,7	25	6	69	M01601		M01600	M01604		M01603		M01602	
SA-5ML6	12,7	25	6	175	M01661		M01660	M01664		M01663		M01662	
SA-6M	16	25	6	69	M01701		M01700	M01704		M01703		M01702	
SA-7M	19	25	6	69	M01901		M01900	M01904		M01903		M01902	
SA-9M	25	25	6	69	M02001		M02000	M02004		M02003		M02002	

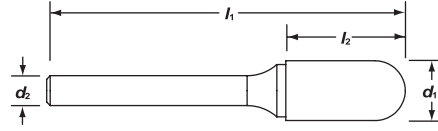
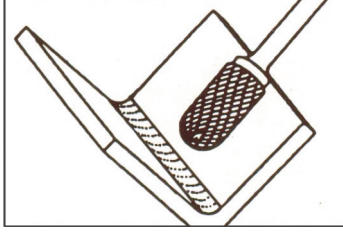
KULLANIM ALANI	Yüksek yüzey kalitesi istenilen durumlarda	Hızlı ilerleme ve Talaş Kaldırma İstendiğinde	Demir dışı malzemeler
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>	<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Plastikler</li> <li>* Kurşun</li> </ul>

\* KOMPLE KARBÜR



KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD	
SB-4MECO**	1,5	6	3	38	M02201		-	-		-		-		
SB-41M*	1,5	6	3	38	M02301		M02300	M02304		M02303		M02302		
SB-42M*	2	11	3	63	M02401		M02400	M02404		M02403		M02402		
SB-42M*	2,5	11	3	38	M02401		M02400	M02404		M02403		M02402		
SB-42ML2,5*	2,5	13	3	65	M02401		M02400	M02404		M02403		M02402		
SB-43M*	3	14	3	38	M02501		M02500	M02504		M02503		M02502		
SB-43ML2,5*	3	14	3	63	M02501		M02500	M02504		M02503		M02502		
SB-51M	6,3	4,7	3	43	M02601		M02600	M02604		M02603		M02602		
SB-12M*	3	12,7	6	60	M02801		M02800	M02804		M02803		M02802		
SB-14M*	5	16	6	50	M02901		M02900	M02904		M02903		M02902		
SB-1M*	6	16	6	50	M03001		M03000	M03004		M03003		M03002		
SB-1MA*	6	25	6	50	M03051		M03050	M03054		M03053		M03052		
SB-1ML6	6	12,7	6	162	M03061		M03060	M03064		M03063		M03062		
SB-2M	8	19	6	63	M03101		M03100	M03104		M03103		M03102		
SB-2MA	8	25	6	64	M03201		M03200	M03204		M03203		M03202		
SB-3M	9,5	19	6	63	M03301		M03300	M03304		M03303		M03302		
SB-3ML6	9,5	19	6	169	M03361		M03360	M03364		M03363		M03362		
SB-3MA	9,5	25	6	69	M03401		M03400	M03404		M03403		M03402		
SB-3BM	9,5	38	6	70	M03501		M03500	M03504		M03503		M03502		
SB-4M	11	25	6	69	M03601		M03600	M03604		M03603		M03602		
SB-5M	12,7	25	6	69	M03701		M03700	M03704		M03703		M03702		
SB-5ML6	12,7	25	6	175	M03761		M03760	M03764		M03763		M03762		
SB-6M	16	25	6	69	M03801		M03800	M03804		M03803		M03802		
SB-7M	19	25	6	69	M04001		M04000	M04004		M04003		M04002		
SB-9M	25	25	6	69	M04101		M04100	M04104		M04103		M04102		
<b>KULLANIM ALANI</b>	<b>Yüksek yüzey kalitesi istenilen durumlarda</b>						<b>Hızlı ilerleme ve Talaş Kaldırma İstendiğinde</b>						<b>Demir dışı malzemeler</b>	
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Kuruşun</li> <li>* Plastikler</li> <li>* Kurşun</li> </ul>	

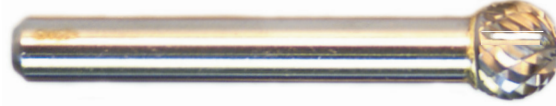
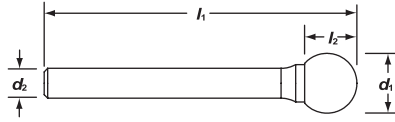
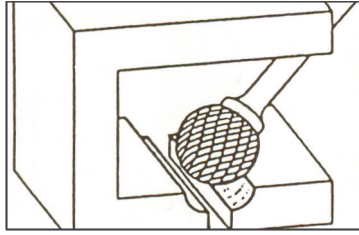
\* KOMPLE KARBÜR    ^ ÇİFT TARAFLI



KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD
SC-41M*	2,5	11	3	38	M04401		M04400	M04404		M04403		M04402	
SC-42M*	3	14	3	38	M04501		M04500	M04504		M04503		M04502	
SC-42ML2*	3	14	3	50	M04521		M04520	M04524		M04523		M04522	
SC-42ML3*	3	14	3	75	M04531		M04530	M04534		M04533		M04532	
SC-51M	6,3	12,7	3	50	M04601		M04600	M04604		M04603		M04602	
SC-12M*	3	16	6	60	M04801		M04800	M04804		M04803		M04802	
SC-14M*	5	16	6	50	M04901		M04900	M04904		M04903		M04902	
SC-1M*	6	16	6	50	M05001		M05000	M05004		M05003		M05002	
SC-1MA*	6	25	6	50	M05051		M05050	M05054		M05053		M05052	
SC-1ML6	6	12,7	6	162	M05061		M05060	M05064		M05063		M05062	
SC-2M	8	19	6	63	M05201		M05200	M05204		M05203		M05202	
SC-2MA	8	25	6	64	M05301		M05300	M05304		M05303		M05302	
SC-3M	9,5	19	6	63	M05401		M05400	M05404		M05403		M05402	
SC-3ML6	9,5	19	6	169	M05461		M05460	M05464		M05463		M05462	
SC-3MA	9,5	25	6	69	M05501		M05500	M05504		M05503		M05502	
SC-4M	11	25	6	69	M05801		M05800	M05804		M05803		M05802	
SC-5M	12,7	25	6	69	M05901		M05900	M05904		M05903		M05902	
SC-5ML6	12,7	25	6	175	M05961		M05960	M05964		M05963		M05962	
SC-6M	16	25	6	69	M06001		M06000	M06004		M06003		M06002	
SC-7M	19	25	6	69	M06201		M06200	M06204		M06203		M06202	
SC-9M	25	25	6	69	M06301		M06300	M06304		M06303		M06302	

KULLANIM ALANI	Yüksek yüzey kalitesi istenilen durumlarda	Hızlı İlerleme ve Talaş Kaldırma İstendiğinde	Demir dışı malzemeler
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>	<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Plastikler</li> <li>* Kurşun</li> </ul>

\* KOMPLE KARBÜR

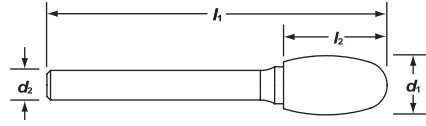
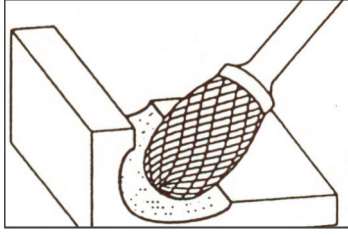


SD

KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD
SD-41M*	2,5	2,3	3	38	M06601		M06600	M06604		M06603		M06602	
SD-42M*	3	2,5	3	38	M06701		M06700	M06704		M06703		M06702	
SD-42ML2*	3	2,5	3	50	M06721		M06720	M06724		M06723		M06722	
SD-42ML3*	3	2,5	3	75	M06731		M06730	M06734		M06733		M06732	
SD-51M	6,3	5	3	44	M06801		M06800	M06804		M06803		M06802	
SD-12M*	3	2	6	50	M07001		M07000	M07004		M07003		M07002	
SD-14M*	5	4	6	50	M07101		M07100	M07104		M07103		M07102	
SD-1M*	6	5	6	50	M07201		M07200	M07204		M07203		M07202	
SD-1ML6	6	5	6	155	M07261		M07260	M07264		M07263		M07262	
SD-2M	8	6,4	6	50	M07301		M07300	M07304		M07303		M07302	
SD-3M	9,5	8	6	52	M07401		M07400	M07404		M07403		M07402	
SD-3ML6	9,5	8	6	158	M07461		M07460	M07464		M07463		M07462	
SD-4M	11	9,5	6	54	M07501		M07500	M07504		M07503		M07502	
SD-5M	12,7	11	6	55	M07601		M07600	M07604		M07603		M07602	
SD-5ML6	12,7	11	6	161	M07661		M07660	M07664		M07663		M07662	
SD-6M	16	14	6	58	M07701		M07700	M07704		M07703		M07702	
SD-7M	19	16	6	62	M07801		M07800	M07804		M07803		M07802	
SD-9M	25	21	6	72	M07901		M07900	M07904		M07903		M07902	

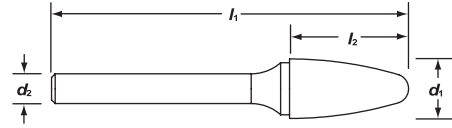
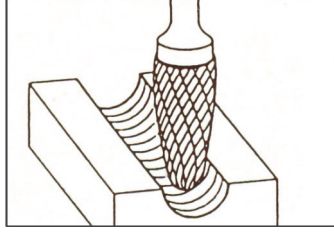
KULLANIM ALANI	Yüksek yüzey kalitesi istenilen durumlarda	Hızlı İlerleme ve Talaş Kaldırma İstendiğinde	Demir dışı malzemeler
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>	<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Kursun</li> <li>* Plastikler</li> </ul>

\* KOMPLE KARBÜR



KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD	
SE-41M*	3	5,5	3	38	M08101		M08100	M08104		M08103		M08102		
SE-41ML2*	3	5,5	3	50	M08121		M08120	M08124		M08123		M08122		
SE-41ML3*	3	5,5	3	75	M08131		M08130	M08134		M08133		M08132		
SE-51M	6,3	9,5	3	47	M08201		M08200	M08204		M08203		M08202		
SE-1M*	6	9,5	6	50	M08501		M08500	M08504		M08503		M08502		
SE-1ML6	6	9,5	6	160	M08561		M08560	M08564		M08563		M08562		
SE-3M	9,5	16	6	60	M08601		M08600	M08604		M08603		M08602		
SE-3ML6	9,5	16	6	166	M08661		M08660	M08664		M08663		M08662		
SE-5M	12,7	22	6	66	M08701		M08700	M08704		M08703		M08702		
SE-5ML6	12,7	22	6	172	M08761		M08760	M08764		M08763		M08762		
SE-6M	16	25	6	69	M08801		M08800	M08804		M08803		M08802		
SE-7M	19	25	6	69	M08901		M08900	M08904		M08903		M08902		
<b>KULLANIM ALANI</b>	<b>Yüksek yüzey kalitesi istenilen durumlarda</b>						<b>Hızlı ilerleme ve Talaş Kaldırma İstendiğinde</b>						<b>Demir dışı malzemeler</b>	
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Kurşun</li> <li>* Plastikler</li> </ul>	

\* KOMPLE KARBÜR

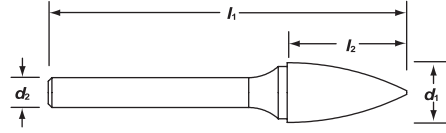
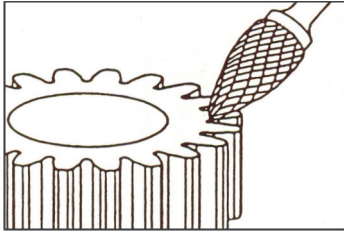


KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD
SF-41M*	3	6	3	38	M09101		M09100	M09104		M09103		M09102	
SF-42M*	3	12,7	3	38	M09201		M09200	M09204		M09203		M09202	
SF-42ML2*	3	12,7	3	50	M09221		M09220	M09224		M09223		M09222	
SF-42ML3*	3	12,7	3	75	M09231		M09230	M09234		M09233		M09232	
SF-51M	6,3	12,7	3	50	M09401		M09400	M09404		M09403		M09402	
SF-1M*	6	16	6	50	M09701		M09700	M09704		M09703		M09702	
SF-1ML6	6	16	6	163	M09761		M09760	M09764		M09763		M09762	
SF-3M	9,5	19	6	63	M09801		M09800	M09804		M09803		M09802	
SF-3ML6	9,5	19	6	169	M09861		M09860	M09864		M09863		M09862	
SF-4M	11	25	6	69	M09901		M09900	M09904		M09903		M09902	
SF-13M	12,7	19	6	63	M10001		M10000	M10004		M10003		M10002	
SF-5M	12,7	25	6	69	M10101		M10100	M10104		M10103		M10102	
SF-5ML6	12,7	25	6	175	M10161		M10160	M10164		M10163		M10162	
SF-6M	16	25	6	69	M10201		M10200	M10204		M10203		M10202	
SF-7M	19	25	6	69	M10301		M10300	M10304		M10303		M10302	
SF-14M	19	32	6	76	M10401		M10400	M10404		M10403		M10402	
SF-15M	19	38	6	82	M10501		M10500	M10504		M10503		M10502	

KULLANIM ALANI	Yüksek yüzey kalitesi istenilen durumlarda	Hızlı İlerleme ve Talaş Kaldırma İstendiğinde	Demir dışı malzemeler
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>	<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Kuruşun</li> <li>* Plastikler</li> </ul>

\* KOMPLE KARBÜR



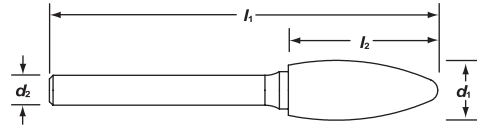
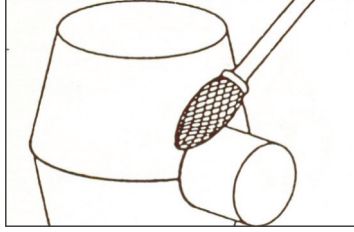


KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD
SG-41M*	3	6	3	38	M10801		M10800	M10804		M10803		M10802	
SG-43M*	3	9,5	3	38	M10901		M10900	M10904		M10903		M10902	
SG44M*	3	12,7	3	38	M11001		M11000	M11004		M11003		M11002	
SG-44ML2*	3	12,7	3	50	M11021		M11020	M11024		M11023		M11022	
SG-44ML3*	3	12,7	3	75	M11031		M11030	M11034		M11033		M11032	
SG-51M	6,3	12,7	3	50	M11101		M11100	M11104		M11103		M11102	
SG-1M*	6	16	6	50	M11301		M11300	M11304		M11303		M11302	
SG-1ML6	6	12,7	6	163	M11361		M11360	M11364		M11363		M11362	
SG-2M	8	19	6	63	M11401		M11400	M11404		M11403		M11402	
SG-3M	9,5	19	6	63	M11501		M11500	M11504		M11503		M11502	
SG-3ML6	9,5	19	6	169	M11561		M11560	M11564		M11563		M11562	
SG-13M	12,7	19	6	63	M11601		M11600	M11604		M11603		M11602	
SG-5M	12,7	25	6	69	M11701		M11700	M11704		M11703		M11702	
SG-5ML6	12,7	25	6	175	M11761		M11760	M11764		M11763		M11762	
SG-6M	16	25	6	69	M11801		M11800	M11804		M11803		M11802	
SG-7M	19	25	6	69	M11901		M11900	M11904		M11903		M11902	

KULLANIM ALANI	Yüksek yüzey kalitesi istenilen durumlarda	Hızlı İterleme ve Talaş Kaldırma İstendiğinde	Demir dışı malzemeler
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>	<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Kursun</li> <li>* Plastikler</li> </ul>

\* KOMPLE KARBÜR

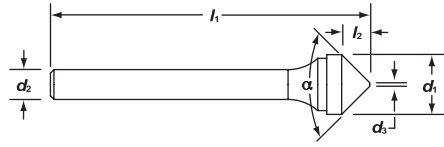
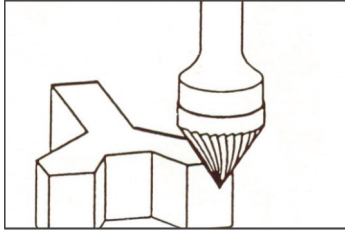




SH

KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD	
SH-41M*	3	6,3	3	38	M12101		M12100	M12104		M12103		M12102		
SH-41ML2*	3	6,3	3	50	M12121		M12120	M12124		M12123		M12122		
SH-41ML3*	3	6,3	3	75	M12131		M12130	M12134		M12133		M12132		
SH-1M*	6	9,5	6	50	M12201		M12200	M12204		M12203		M12202		
SH-1ML6	6	9,5	6	160	M12261		M12260	M12264		M12263		M12262		
SH-2M	8	19	6	63	M12301		M12300	M12304		M12303		M12302		
SH-2ML6	8	19	6	169	M12361		M12360	M12364		M12363		M12362		
SH-5M	12,7	32	6	76	M12401		M12400	M12404		M12403		M12402		
SH-5ML6	12,7	32	6	182	M12461		M12460	M12464		M12463		M12462		
SH-6M	16	36	6	80	M12501		M12500	M12504		M12503		M12502		
SH-7M	19	41	6	85	M12601		M12600	M12604		M12603		M12602		
<b>KULLANIM ALANI</b>	<b>Yüksek yüzey kalitesi istenilen durumlarda</b>						<b>Hızlı İterleme ve Talaş Kaldırma İstendiğinde</b>						<b>Demir dışı malzemeler</b>	
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Kurşun</li> <li>* Plastikler</li> </ul>	

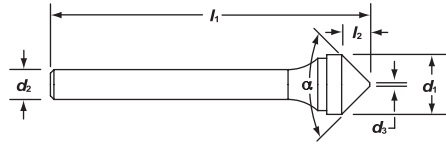
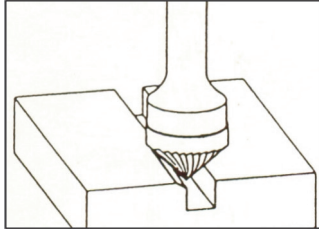
\* KOMPLE KARBÜR



SJ

KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	α	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD
SJ-42M*	3	2,5	3	38	60°	M12801		M12800	M12804		M12803		M12802	
SJ-42MDE**^	3	2,5	3	38	60°	M12811		M12810	M12814		M12813		M12812	
SJ-1M*	6	4	6	50	60°	M13001		M13000	M13004		M13003		M13002	
SJ-1MDE**^	6	4	6	50	60°	M13011		M13010	M13014		M13013		M13012	
SJ-3M	9,5	8	6	55	60°	M13201		M13200	M13204		M13203		M13202	
SJ-5M	12,7	11	6	58	60°	M13301		M13300	M13304		M13303		M13302	
SJ-6M	16	14,5	6	61	60°	M13401		M13400	M13404		M13403		M13402	
SJ-7M	19	17,5	6	65	60°	M13501		M13500	M13504		M13503		M13502	
SJ-9M	25	24,5	6	68	60°	M13601		M13600	M13604		M13603		M13602	
<b>KULLANIM ALANI</b>	<b>Yüksek yüzey kalitesi istenilen durumlarda</b>						<b>Hızlı ilerleme ve Talaş Kaldırma İstendiğinde</b>						<b>Demir dışı malzemeler</b>	
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Kursun</li> <li>* Plastikler</li> </ul>	

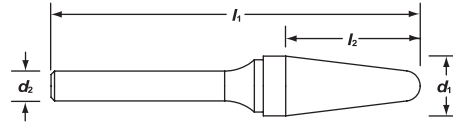
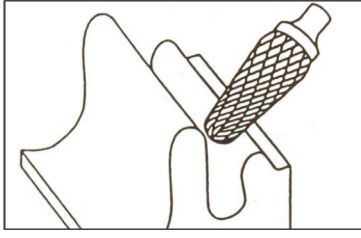
\* KOMPLE KARBÜR    ^ ÇİFT TARAFLI



SK

KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	α	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD
SK-42M*	3	1,5	3	38	90°	M13801		M13800	M13804		M13803		M13802	
SK-42MDE*^	3	1,5	3	38	90°	M13811		M13810	M13814		M13813		M13812	
SK-1M*	6	3	6	50	90°	M14001		M14000	M14004		M14003		M14002	
SK-1MDE*^	6	3	6	50	90°	M14011		M14010	M14014		M14013		M14012	
SK-3M	9,5	4,7	6	52	90°	M14201		M14200	M14204		M14203		M14202	
SK-5M	12,7	6,3	6	54	90°	M14401		M14400	M14404		M14403		M14402	
SK-6M	16	8	6	57	90°	M14501		M14500	M14504		M14503		M14502	
SK-7M	19	9,5	6	58	90°	M14601		M14600	M14604		M14603		M14602	
SK-9M	25	12,7	6	60	90°	M14701		M14700	M14704		M14703		M14702	
<b>KULLANIM ALANI</b>	<b>Yüksek yüzey kalitesi istenilen durumlarda</b>						<b>Hızlı ilerleme ve Talaş Kaldırma İstendiğinde</b>						<b>Demir dışı malzemeler</b>	
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Kursun</li> <li>* Plastikler</li> </ul>	

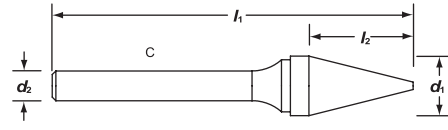
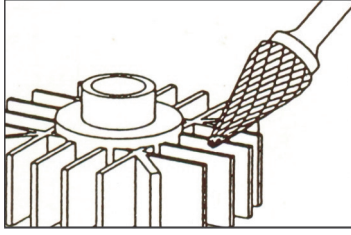
\* KOMPLE KARBÜR    ^ ÇİFT TARAFLI



SL

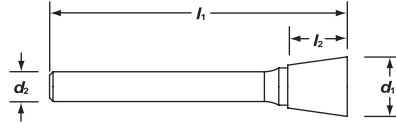
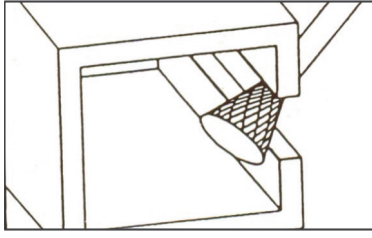
KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD	
SL-41M*	3	9,5	3	38	M14901		M14900	M14904		M14903		M14902		
SL-42M*	3	12,7	3	38	M15001		M15000	M15004		M15003		M15002		
SL-1M*	6	16	6	50	M15101		M15100	M15104		M15103		M15102		
SL-1ML6	6	16	6	166	M15161		M15160	M15164		M15163		M15162		
SL-2M	8	22	6	69	M15201		M15200	M15204		M15203		M15202		
SL-3M	9,5	27	6	74	M15301		M15300	M15304		M15303		M15302		
SL-3ML6	9,5	27	6	177	M15361		M15360	M15364		M15363		M15362		
SL-4M	12,7	28	6	76	M15401		M15400	M15404		M15403		M15402		
SL-4ML6	12,7	28	6	178	M15461		M15460	M15464		M15463		M15462		
SL-5M	16	30	6	77	M15501		M15500	M15504		M15503		M15502		
SL-6M	16	33	6	80	M15601		M15600	M15604		M15603		M15602		
SL-7M	19	38	6	85	M15701		M15700	M15704		M15703		M15702		
<b>KULLANIM ALANI</b>	<b>Yüksek yüzey kalitesi istenilen durumlarda</b>						<b>Hızlı İterleme ve Talaş Kaldırma İstendiğinde</b>						<b>Demir dışı malzemeler</b>	
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Kursun</li> <li>* Plastikler</li> </ul>	

\* KOMPLE KARBÜR



KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD	
SM-41M*	3	8,9	3	38	M15901		M15900	M15904		M15903		M15902		
SM-42M*	3	11	3	38	M16001		M16000	M16004		M16003		M16002		
SM-42ML2*	3	11	3	50	M16021		M16020	M16024		M16023		M16022		
SM-42ML3*	3	11	3	75	M16031		M16030	M16034		M16033		M16032		
SM-43M*	3	16	3	38	M16101		M16100	M16104		M16103		M16102		
SM-51M	6,3	12,7	3	54	M16201		M16200	M16204		M16203		M16202		
SM-1M*	6	12,7	6	50	M16401		M16400	M16404		M16403		M16402		
SM-2M	6	19	6	50	M16501		M16500	M16504		M16503		M16502		
SM-3M*	6	25	6	50	M16601		M16600	M16604		M16603		M16602		
SM-4M	9,5	16	6	63	M16901		M16900	M16904		M16903		M16902		
SM-5M	12,7	22	6	69	M17001		M17000	M17004		M17003		M17002		
SM-6M	16	25	6	73	M17101		M17100	M17104		M17103		M17102		
<b>KULLANIM ALANI</b>	<b>Yüksek yüzey kalitesi istenilen durumlarda</b>						<b>Hızlı İterleme ve Talaş Kaldırma İstendiğinde</b>						<b>Demir dışı malzemeler</b>	
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Kursun</li> <li>* Plastikler</li> </ul>	

\* KOMPLE KARBÜR



SN

KOD	d <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	l <sub>1</sub>	DÜZ	FİYAT USD	ÇAPRAZ	TALAŞ KIRICILI	FİYAT USD	DIAMOND	FİYAT USD	ALÜMİNYUM	FİYAT USD	
SN-41M*	2,5	3	3	38	M17301		M17300	M17304		M17303		M17302		
SN-42M*	3	4	3	38	M17401		M17400	M17404		M17403		M17402		
SN-51M	6,3	6	3	44	M17501		M17500	M17504		M17503		M17502		
SN-1M*	6	8	6	50	M17701		M17700	M17704		M17703		M17702		
SN-2M	9,5	9,5	6	53	M17801		M17800	M17804		M17803		M17802		
SN-4M	12,7	12,7	6	57	M18001		M18000	M18004		M18003		M18002		
SN-6M	16	19	6	63	M18201		M18200	M18204		M18203		M18202		
SN-7M	19	16	6	60	M18301		M18300	M18304		M18303		M18302		
<b>KULLANIM ALANI</b>	<b>Yüksek yüzey kalitesi istenilen durumlarda</b>						<b>Hızlı İterleme ve Talaş Kaldırma İstendiğinde</b>						<b>Demir dışı malzemeler</b>	
	<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Pirinç</li> <li>* Bakır</li> <li>* Bronz</li> <li>* Dökme Demir</li> <li>* Çelik (HrC 40-60)</li> <li>* Karbon Nikel Çelik</li> <li>* Paslanmaz Çelik</li> <li>* Kaynaklı Çelik</li> <li>* Titanyum</li> </ul>						<ul style="list-style-type: none"> <li>* Alüminyum</li> <li>* Magnezyum</li> <li>* Pirinç</li> <li>* Çinko</li> <li>* Kursun</li> <li>* Plastikler</li> </ul>	

\* KOMPLE KARBÜR



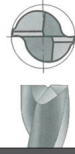
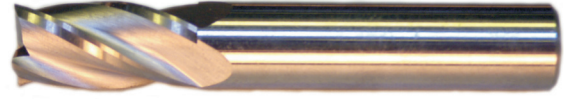
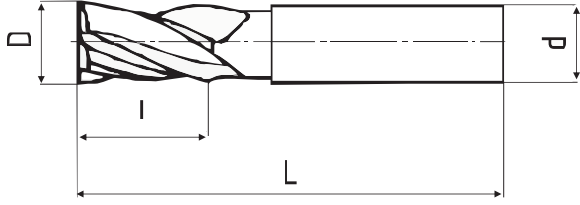
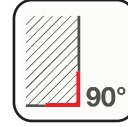
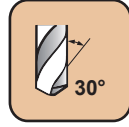
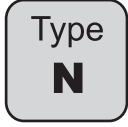
SERT METAL (KARBÜR) KALIPÇI FREZE STANDI - 52 PARÇA		FİYAT USD
Çapraz 2'şer Adet	SB - 1 / SB - 2 / SB - 3 / SB - 5 / SC - 3 / SC - 5 / SD - 2 / SD - 3 / SD - 5 / SE - 3 / SF - 1 / SF - 3 / SF - 5 / SG - 3 / SG - 5 / SH - 2 / SH - 5 / SM - 2 / SM - 4 / SM - 5	
Düz 1'er Adet	SB - 1 / SB - 5 / SC - 3 / SF - 1 / SF - 3 / SF - 5 / SG - 3 / SG - 5 / SH - 5 / SM - 2 / SM - 4	
Alüminyum 1 Adet	SF - 5	

### Tavsiye Edilen Hızlar

Aşağıdaki tablo genel ve yaklaşık değerlerdir. İyi netice alabilmek için değerler değişebilir. Uzun saplı kalıpçı frezelerde düşük hızlar kullanılmalıdır.

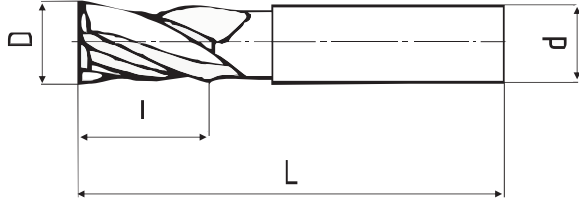
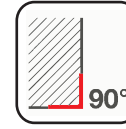
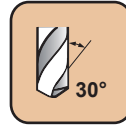
Uç Çapı	Dönüş Hızı
3mm Komple Karbür	45,000-50,000
5mm Komple Karbür	35,000-40,000
5mm Karbür, 3 mm Çelik Sap	30,000-35,000
6mm Komple Karbür	30,000-35,000
6mm Karbür, 3 mm Çelik Sap	25,000-30,000
8mm Karbür, 6 mm Çelik Sap	25,000-30,000
10mm Karbür, 6 mm Çelik Sap	25,000-30,000
11mm Karbür, 6 mm Çelik Sap	20,000-25,000
12mm Karbür, 6 mm Çelik Sap	20,000-25,000
16mm Karbür, 6 mm Çelik Sap	15,000-20,000
18mm Karbür, 6 mm Çelik Sap	15,000-20,000
25mm Karbür, 6 mm Çelik Sap	12,000-18,000



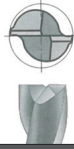
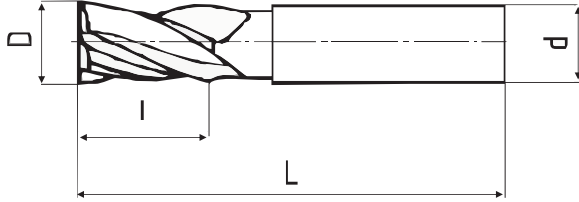
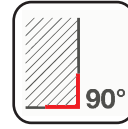
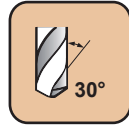
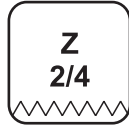
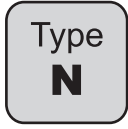


D	I	d	L	4 AĞIZLI	2 AĞIZLI	3 AĞIZLI	FİYAT USD	4 AĞIZLI Küresel	2 AĞIZLI Küresel	FİYAT USD
0,5	1,5	3	38	81008	81002	81009		81006	81007	
1	3	3	38	81000	81001	81003		81004	81005	
1,5	5	3	38	81050	81051	81053		81054	81055	
2	6	3	38	81100	81101	81103		81104	81105	
2,5	7	3	38	81150	81151	81153		81154	81155	
3	12	3	38	81200	81201	81203		81204	81205	
3,5	12	4	50	81250	81251	81253		81254	81255	
4	14	4	50	81300	81301	81303		81304	81305	
4,5	14	5	50	81350	81351	81353		81354	81355	
5	16	5	50	81400	81401	81403		81404	81405	
6	19	6	63	81450	81451	81453		81454	81455	
7	19	8	63	81500	81501	81503		81504	81505	
8	19	8	63	81550	81551	81553		81554	81555	
9	22	10	70	81600	81601	81603		81604	81605	
10	22	10	70	81650	81651	81653		81654	81655	
11	25	11	70	81700	81701	81703		81704	81705	
12	25	12	75	81750	81751	81753		81754	81755	
14	30	14	88	81800	81801	81803		81804	81805	
16	32	16	88	81850	81851	81853		81854	81855	
18	36	18	100	81900	81901	81903		81904	81905	
20	38	20	100	81950	81951	81953		81954	81955	
22	38	22	100	82000	82001	82003		82004	82005	
25	38	25	100	82050	82051	82053		82054	82055	





D	I	d	L	4 AĞIZLI	2 AĞIZLI	3 AĞIZLI	FİYAT USD	4 AĞIZLI Küresel	2 Ağızlı Küresel	FİYAT USD
1	3	3	38	81030	81031	81033		81034	81035	
1,5	5	3	38	81080	81081	81083		81084	81085	
2	6	3	38	81130	81131	81133		81134	81135	
2,5	7	3	38	81180	81181	81183		81184	81185	
3	12	3	38	81230	81231	81233		81234	81235	
3,5	12	4	50	81280	81281	81283		81284	81285	
4	14	4	50	81330	81331	81333		81334	81335	
4,5	14	5	50	81380	81381	81383		81384	81385	
5	16	5	50	81430	81431	81433		81434	81435	
6	19	6	63	81480	81481	81483		81484	81485	
7	19	8	63	81530	81531	81533		81534	81535	
8	19	8	63	81580	81581	81583		81584	81585	
9	22	10	70	81630	81631	81633		81634	81635	
10	22	10	70	81680	81681	81683		81684	81685	
11	25	11	70	81730	81731	81733		81734	81735	
12	25	12	75	81780	81781	81783		81784	81785	
14	30	14	88	81830	81831	81833		81834	81835	
16	32	16	88	81880	81881	81883		81884	81885	
18	36	18	100	81930	81931	81933		81934	81935	
20	38	20	100	81980	81981	81983		81984	81985	
22	38	22	100	82030	82031	82033		82034	82035	
25	38	25	100	82080	82081	82083		82084	82085	

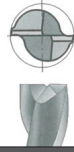
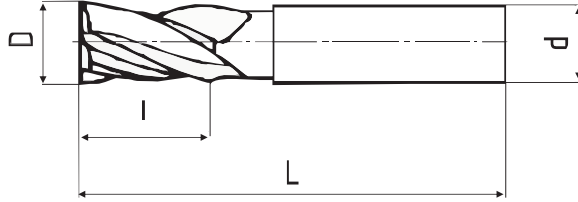
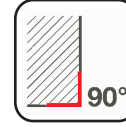
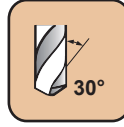
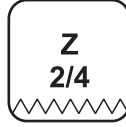
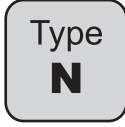


D	I	d	L	4 AĞIZLI	2 AĞIZLI	FİYAT USD	4 AĞIZLI Küresel	2 AĞIZLI Küresel	FİYAT USD
3	25	3	65	83000	83001		83004	83005	
4	25	4	65	83050	83051		83054	83055	
5	25	5	75	83100	83101		83104	83105	
6	25	6	75	83150	83151		83154	83155	
8	25	8	75	83200	83201		83204	83205	
10	38	10	100	83250	83251		83254	83255	
12	50	12	100	83300	83301		83304	83305	
14	56	14	125	83350	83351		83354	83355	
16	75	16	150	83400	83401		83404	83405	
18	75	18	150	83450	83451		83454	83455	
20	75	20	150	83500	83501		83504	83505	
25	75	25	150	83550	83551		83554	83555	

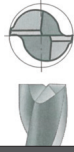
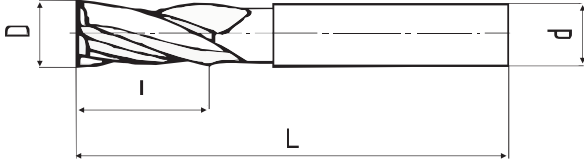
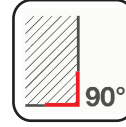
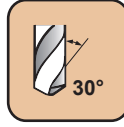
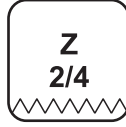
# TIALN KAPLAMALI UZUN SERT METAL (KARBÜR) PARMAK FREZELER

**MasterCut**  
Tool Corp

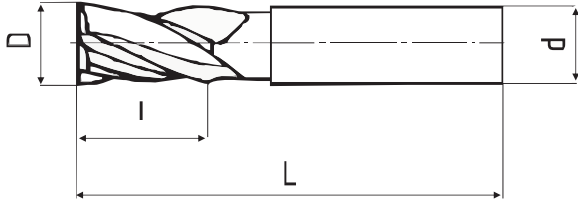
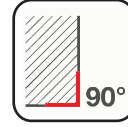
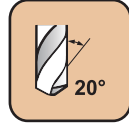
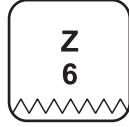
Made in USA



D	I	d	L	4 AĞIZLI	2 AĞIZLI	FİYAT USD	4 AĞIZLI Küresel	2 AĞIZLI Küresel	FİYAT USD
3	25	3	65	83030	83031		83034	83035	
4	25	4	65	83080	83081		83084	83085	
5	25	5	75	83130	83131		83134	83135	
6	25	6	75	83180	83181		83184	83185	
8	25	8	75	83230	83231		83234	83235	
10	38	10	100	83280	83281		83284	83285	
12	50	12	100	83330	83331		83334	83335	
14	56	14	125	83380	83381		83384	83385	
16	75	16	150	83430	83431		83434	83435	
18	75	18	150	83480	83481		83484	83485	
20	75	20	150	83530	83531		83534	83535	
25	75	25	150	83580	83581		83584	83585	

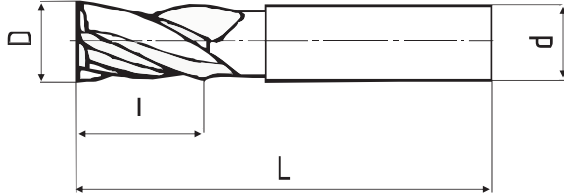


D	l	d	L	4 AĞIZLI	2 AĞIZLI	FİYAT USD	4 AĞIZLI Küresel	2 AĞIZLI Küresel	FİYAT USD
6	38	6	100	301-1000	300-1000		311-1000	310-1000	
6	75	6	150	301-1002	300-1002		311-1002	310-1002	
6	75	8	200	301-1004	300-1004		311-1004	310-1004	
8	42	8	100	301-1006	300-1006		311-1006	310-1006	
8	75	8	150	301-1008	300-1008		311-1008	310-1008	
8	75	8	200	301-1010	300-1010		311-1010	310-1010	
10	75	10	150	301-1014	300-1014		311-1014	310-1014	
10	75	10	200	301-1016	300-1016		311-1016	310-1016	
12	75	12	150	301-1018	300-1018		311-1018	310-1018	
12	75	12	200	301-1020	300-1020		311-1020	310-1020	
14	62	14	125	301-1022	300-1022		311-1022	310-1022	
14	75	14	150	301-1024	300-1024		311-1024	310-1024	
14	75	16	200	301-1026	300-1026		311-1026	310-1026	
16	75	16	200	301-1028	300-1028		311-1028	310-1028	
18	75	18	200	301-1030	300-1030		311-1030	310-1030	
20	75	20	200	301-1032	300-1032		311-1032	310-1032	



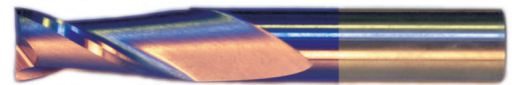
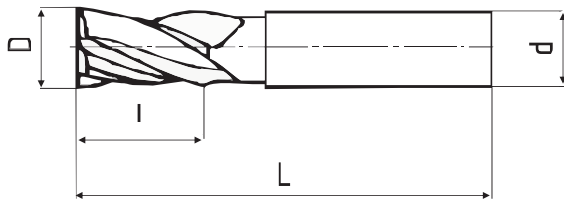
D	I	d	L	STANDART	FİYAT USD	TiN	FİYAT USD	TiCN	FİYAT USD
3	12	3	38	81202		81212		81222	
4	14	4	50	81302		81312		81322	
5	16	5	50	81402		81412		81422	
6	19	6	63	81452		81462		81472	
7	19	8	63	81502		81512		81522	
8	21	8	63	81552		81562		81572	
9	22	10	70	81602		81612		81622	
10	25	10	70	81652		81662		81672	
11	25	11	70	81702		81712		81722	
12	25	12	75	81752		81762		81772	
14	30	14	88	81802		81812		81822	
16	32	16	88	81852		81862		81872	
18	35	18	100	81902		81912		81922	
20	38	20	100	81952		81962		81972	
22	38	22	100	82002		82012		82022	
25	38	25	100	82052		82062		82072	

TIALN KAPLAMALI 4 AĞIZLI (KÖŞE RADIUS)



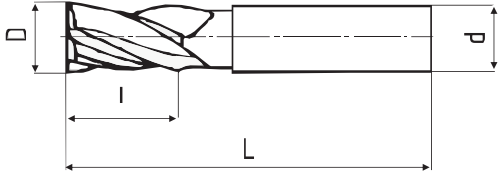
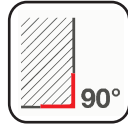
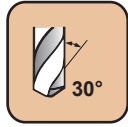
D	l	d	L	4 AĞIZLI						FİYAT USD
				R 0,5 mm	R 0,75 mm	R 1,0 mm	R 1,25 mm	R 1,5 mm	R 2,0 mm	
3	12	3	38	81230R0.50	-----	81230R1.00	-----	-----	-----	
4	14	4	50	81330R0.50	81330R0.75	81330R1.00	-----	-----	-----	
5	16	5	50	81430R0,50	81430R0,75	81430R1.00	81430R1.25	81430R1.50	81430R2.00	
6	19	6	63	81480R0.50	81480R0.75	81480R1.00	81480R1.25	81480R1.50	81480R2.00	
8	19	8	63	81580R0.50	81580R0.75	81580R1.00	81580R1.25	81580R1.50	81580R2,00	
10	25	10	70	81680R0.50	81680R0.75	81680R1.00	81680R1.25	81680R1.50	81680R2.00	
12	25	12	75	81780R0.50	81780R0.75	81780R1.00	81780R1.25	81780R1.50	81780R2.00	
16	32	16	88	81880R0.50	81880R0.75	81880R1.00	81880R1.25	81880R1.50	81880R2.00	
20	38	20	100	81980R0.50	81980R0.75	81980R1.00	81980R1.25	81980R1.50	81980R2.00	

TIALN KAPLAMALI 2 AĞIZLI (KÖŞE RADIUS)



D	l	d	L	2 AĞIZLI						FİYAT USD
				R 0,5 mm	R 0,75 mm	R 1,0 mm	R 1,25 mm	R 1,5 mm	R 2,0 mm	
3	12	3	38	81231R0.50	-----	-----	-----	-----	-----	
4	14	4	50	81331R0.50	81331R0.75	81331R1.00	-----	-----	-----	
5	16	5	50	81431R0.50	81431R0.75	81431R1.00	81431R1.25	81431R1.50	81431R2.00	
6	19	6	63	81481R0.50	81481R0.75	81481R1.00	81481R1.25	81481R1.50	81481R2.00	
8	19	8	63	81581R0.50	81581R0.75	81581R1.00	81581R1.25	81581R1.50	81581R2.00	
10	25	10	70	81681R0.50	81681R0.75	81681R1.00	81681R1.25	81681R1.50	81681R2.00	
12	25	12	75	81781R0.50	81781R0.75	81781R1.00	81781R1.25	81781R1.50	81781R2.00	
16	32	16	88	81881R0.50	81881R0.75	81881R1.00	81881R1.25	81881R1.50	81881R2.00	
20	38	20	100	81981R0.50	81981R0.75	81981R1.00	81981R1.25	81981R1.50	81981R2.00	





Paslanmaz Çelik, sertleştirilmiş çelik ve çelik alaşımları için

D	l	d	L	AĞIZ	STD	FİYAT USD	TiN	FİYAT USD	TiCN	FİYAT USD	TiAlN	FİYAT USD
6	19	6	63	3	86900		86901		86902		86903	
8	19	8	63	3	86904		86905		86906		86907	
10	22	10	63	3	86908		86909		86910		86911	
12	25	12	75	4	86912		86913		86914		86915	
16	32	16	88	4	86916		86917		86918		86919	
20	38	20	100	4	86920		86921		86922		86923	
25	38	25	100	5	86924		86925		86926		86927	

Titanyum, inkel ve diğer mühendislik malzemeleri için

D	l	d	L	AĞIZ	STD	FİYAT USD	TiN	FİYAT USD	TiCN	FİYAT USD	TiAlN	FİYAT USD
6	19	6	63	3	86828		86829		86830		86831	
8	19	8	63	3	86832		86833		86834		86835	
10	22	10	63	3	86836		86837		86838		86839	
12	25	12	75	4	86840		86841		86842		86843	
16	32	16	88	4	86844		86845		86846		86847	
20	38	20	100	4	86848		86849		86850		86851	
25	38	25	100	6	86852		86853		86854		86855	

Alüminyum, Princi, Bronz ve diğer hafif alaşımlar için

D	l	d	L	AĞIZ	STD	FİYAT USD	TiN	FİYAT USD	TiCN	FİYAT USD	TiAlN	FİYAT USD
6	19	6	63	3	86856		86857		86858		86859	
8	19	8	63	3	86860		86861		86862		86863	
10	22	10	63	3	86864		86865		86866		86867	
12	25	12	75	3	86868		86869		86870		86871	
16	32	16	88	3	86872		86873		86874		86875	
20	38	20	100	3	86876		86877		86878		86879	
25	38	25	100	3	86880		86881		86882		86883	



TiN

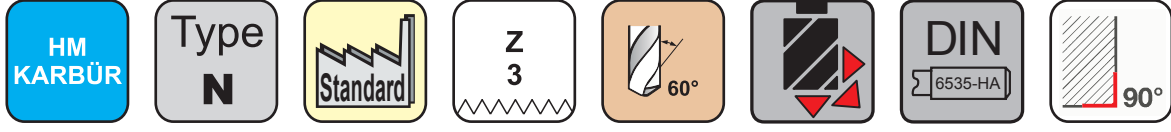


TiCN



TiAlN

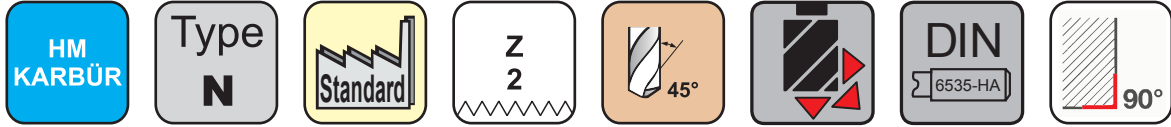
## 60° HELİS 3 AĞIZLI SERT METAL (KARBÜR) PARMAK FREZELER



Inkonel, titanyum, paslanmaz ve çelik alaşımlarının yüksek devirde freze işlemleri için.

60 DERECE 3 AĞIZLI				EDP#	FİYAT USD	EDP#	FİYAT USD	EDP#	FİYAT USD	EDP#	FİYAT USD
Çap	Kes. Boy	Sap	Tam Boy	STD	STD	TİN	TİN	TİCN	TİCN	TİALN	TİALN
6	20	6	63	88250		88251		88252		88253	
8	22	8	63	88254		88255		88256		88257	
10	25	10	70	88258		88259		88260		88261	
12	25	12	75	88262		88263		88264		88265	
16	30	16	88	88266		88267		88268		88269	
20	38	20	100	88270		88271		88272		88273	

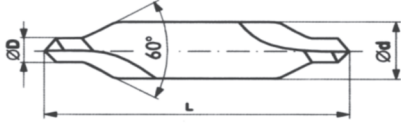
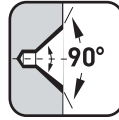
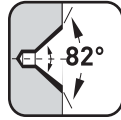
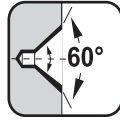
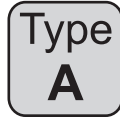
## 45° HELİS 2 AĞIZLI SERT METAL (KARBÜR) PARMAK FREZELER



Alüminyumların yüksek hızda işlenmesi için

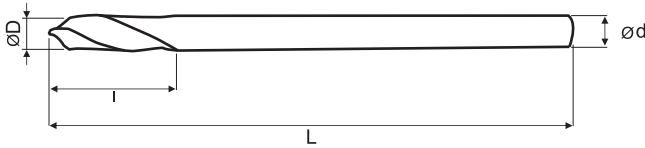
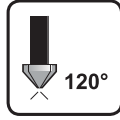
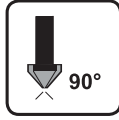
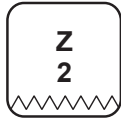
45 DERECE 2 AĞIZLI				EDP#	FİYAT USD	EDP#	FİYAT USD	EDP#	FİYAT USD	EDP#	FİYAT USD
Çap	Kes. Boy	Sap	Tam Boy	STD	STD	TİN	TİN	TİCN	TİCN	TİALN	TİALN
6	25	6	63	88200		88201		88202		88203	
8	25	8	63	88204		88205		88206		88207	
10	25	10	70	88208		88209		88210		88211	
12	32	12	75	88212		88213		88214		88215	
16	42	16	88	88216		88217		88218		88219	
20	48	20	100	88220		88221		88222		88223	

SERT METAL (KARBÜR) PUNTA MATKABI

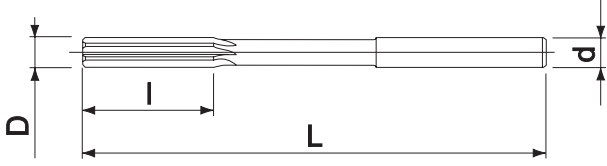
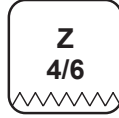


D	d	L	KOD 60 DERECE	KOD 82 DERECE	KOD 90 DERECE	FİYAT USD
1,6	4	35,5	89200	89201	89202	
2	5	40	89203	89204	89205	
2,5	6,3	45	89206	89207	89208	
3,15	8	50	89209	89210	89211	
4	10	56	89212	89213	89214	
5	12,5	63	89215	89216	89217	
6,3	16	71	89218	89219	89220	
8	20	80	89221	89222	89223	

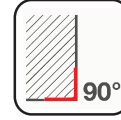
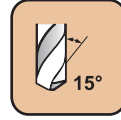
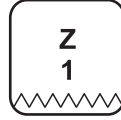
SERT METAL (KARBÜR) NC PUNTA MATKABI



D	l	d	L	AÇI	KOD	FİYAT USD
3	10	3	38	90°	89250	
4	18	4	63	90°	89251	
6	20	6	63	90°	89252	
10	25	10	75	90°	89253	
12	25	12	75	90°	89254	
3	10	3	38	120°	89255	
4	18	4	63	120°	89256	
6	20	6	63	120°	89257	
10	25	10	75	120°	89258	
12	25	12	75	120°	89259	



D	l	d	L	Z	KOD	FİYAT USD
2	12	2	58	4	A-30-1025	
2,5	12	2,5	58	4	A-30-1050	
3	12	3	58	4	A-30-1181	
3,5	15	3,5	63	4	A-30-1378	
4	18	4	63	4	A-30-1575	
4,5	20	4,5	70	6	A-30-1772	
5	22	5	75	6	A-30-1969	
5,5	22	5,5	75	6	A-30-2125	
6	25	6	75	6	A-30-2362	
6,5	25	6,5	75	6	A-30-2559	
7	25	7	75	6	A-30-2756	
8	28	8	82	6	A-30-3150	
9	35	9	100	6	A-30-3543	
10	35	10	100	6	A-30-3937	
11	35	11	100	6	A-30-4331	
12	35	12	100	6	A-30-4724	



Alüminyum ve Sert Plastik için

Ø	l	d	L	KOD	FİYAT USD
2	8	2	50	901-1101	
2	8	6	64	901-1102	
2,5	8	2,5	50	901-1103	
2,5	8	6	64	901-1104	
3	8	3	50	901-1105	
3	8	6	64	901-1106	
3	12	3	64	901-1107	
3	12	6	64	901-1108	
4	8	4	64	901-1109	
4	12	4	64	901-1110	
4	20	4	64	901-1111	
4	20	6	64	901-1112	
4	30	4	64	901-1113	
5	16	5	64	901-1114	
5	16	6	64	901-1115	
5	30	5	64	901-1116	
6	8	6	64	901-1117	
6	12	6	64	901-1118	
6	20	6	64	901-1119	
6	30	6	76	901-1120	
6	38	6	76	901-1121	
8	25	8	64	901-1122	
8	38	8	76	901-1123	
10	30	10	76	901-1124	

SERT METAL (KARBÜR) FREZELERİN KULLANIM DEĞERLERİ

MALZEME	DEVİR SAYISI (RPM)									
	İlerleme(m/dakika)	6,5 mm' e kadar	6,5 - 12,5 mm	12,6 - 19 mm	19,1 - 25 mm					
Alüminyum / Alaşımları	183	366	9168	17912	8956	9295	4620	6128	3048	4657
Bronz / Pirinç	91	168	4584	8210	4478	4269	2310	2809	1524	2135
Bakır / Alaşımları	152	274	7640	13435	7463	6986	3850	4596	2540	3493
Demir Döküm (Y umuşak ± 195 bhn)	61	152	3056	7464	2985	3881	1540	2553	1016	1941
Demir Döküm (Orta ± 255 bhn)	38	107	1910	5225	1866	2717	963	1787	635	1358
Demir Döküm (Sert ±275 bhn)	24	91	1222	4478	1194	2329	616	1532	406	1164
Magnezyum	244	427	12224	20898	11942	10867	6161	7149	4064	5436
Krom Nikel Alaşımları	20	53	993	2612	970	1358	500	894	330	679
Plastikler	183	366	9168	17913	8956	9315	4620	6128	3048	4657
Sıcak İş Çelikleri (35-40 Rc)	46	107	2292	5225	2239	2717	1155	1787	762	1358
Sıcak İş Çelikleri (40-45 Rc)	38	84	1910	4105	1866	2135	963	1404	635	1067
Sıcak İş Çelikleri (45+ Rc)	15	61	764	2985	746	1552	385	1021	254	776
Çelik - Karbon	53	107	2674	5225	2612	2717	1348	1787	889	1358
Çelik - Kalıp	15	76	764	3732	746	1941	385	1277	254	970
Çelik - T akım	46	76	2292	3732	2239	1941	1155	1277	762	970
Paslanmaz Çelik - Yumuşak	76	122	3820	5971	3731	3105	1925	2043	770	1552
Paslanmaz Çelik - Sert	23	76	1146	3732	1119	1941	578	1277	381	970
Titanyum Alaşımları	27	63	1375	3359	1343	1747	693	1149	457	873



SERT METAL (KARBÜR) MATKAP UCU VE FREZE STANDI - 70 PARÇA		FİYAT USD
Matkap Uçları (A-47...)	3 / 3,5 / 4 / 4,5 / 5 / 5,5 / 6 / 6,5 / 7 / 7,5 / 8 / 8,5 / 9 / 10 mm	
2 Ağızlı Normal Boy TIALN	2 / 3 / 4 / 5 / 6 / 8 / 10 mm	
4 Ağızlı Uzun TIALN	3 / 4 / 5 / 6 / 8 / 10 / 12 mm	
4 Ağızlı Normal Boy kaplamasız	1 / 1,5 / 2 / 2,5 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 12 / 14 / 16 mm	
4 Ağızlı Normal Boy TIALN	1 / 1,5 / 2 / 2,5 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 12 / 14 / 16 mm	
2 Ağızlı Normal Boy küresel TIALN	1 / 1,5 / 2 / 2,5 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 12 / 14 / 16 mm	