

KALİTEDE
ÖNCÜNÜN
ADRESİ



TEKNİK HIRDAVAT

CIVATA

ANAYİ YAĞLARI

MALZEMELERİ

RULMAN

ZEMELE

VA

VA

VA

VA

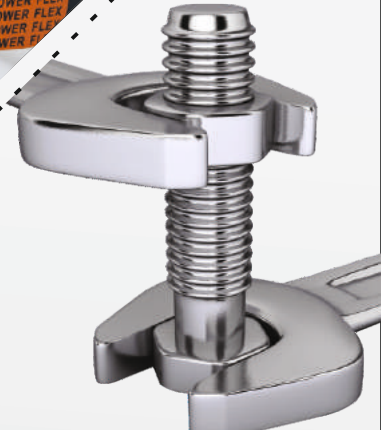
VA

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CANDOĞAN

TEKNİK HIRDAVAT

MİSYONUMUZ

2004 Senesinde kurulan hırdavat ve endüstriyel iş alanlarında önemli yatırımlar yapan lider bir şirket olarak, müşterilerine uygun fiyatlarla ulaşabilecekleri yüksek kalitede ürünler sunmaktır.

VİZYONUMUZ

Temel amacımız minyonmuza bağlı olarak müşteri memnuniyeti konusunda odaklanma, yenilikçi paylaşımcı, dürüst, kaliteli ve yaratıcı hizmet sunmaktır bizi bugün olduğumuz yere getiren bu değerlere bağlı kalıp, bu başarıya katkı sağlayan çalışanlarımız ve müşterilerimizle birlikte dahada büyüyerek hizmetlerimize devam etmektir.

DEWALT

ATLAS

FIMER

OPTIMUM
MASCHINEN - GERMANY

KAMA
DALGAKIRAN

CORA

OSAKA

3M

STARLINE

SKF

Shell

Bally

ME

Weller

SEL

KNIPEX

NoRa

GÜLERMAN
Ticariye Cihazları

STANLEY

SGS

**I
INA
A**

PO
Petrol Ofisi

DEKOR

Makita

BOSCH

MAIER

BEST

Bally

Akfix

DAYSON

ORAC

FAG

hnp
hakan
PLASTİK

FIRAT

KNIPEX

CETA FORM

Ceresit

FISCO

LAVOR

FLORA

renova

DIY Elta Tools

BIGLIFT

MAXPOWER

ORS

Sista

Polisan

Karbosan

IZELTAS

MANO

AEG

fiveStar

GEZER

DUNLOP

KAMA

NSK

WD-40

TOMAX

ER-BI
HİTİTİM VE BOMU KELLEKÇELERİ

YILDIZ
GAZ ARMATÜRLERİ

BIG RED

Speedol

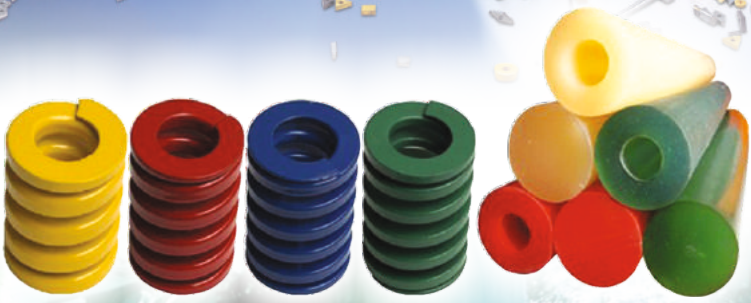
KALE
KALE KİLİT

404

MAX-EXTRA Mitutoyo ASTEL

CTM

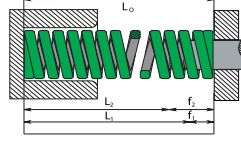
Beybi





YEŞİL YAY

Hafif Yük



mm	Ürün	D _H Dış Çap	D _S İç Çap	L ₀ Serbest Uzunluk	R ₀ Yük Katsayısı	f _{BL} Max. Esneme	A		B		C		D		E		PCS
							mm	N	mm	N	mm	N	mm	N	mm	N	
10	SY10x25	25	10	15	1.7	17	3.9	10	5.8	1.9	8.9	10.2	11.3	11.9	10.3	10.3	100
	SY10x32	32	10	15	2.1	15	1.9	12	7.1	2.1	11.3	12.2	13.1	13.1	11.1	100	
	SY10x38	38	10	20	2.2	17	1.9	14	8.9	1.9	12.2	13.1	13.1	13.1	11.1	100	
	SY10x44	44	10	25	2.2	18	1.8	16	10.7	1.8	13.1	14.0	14.0	14.0	11.0	100	
	SY10x51	51	10	25	2.4	17	1.8	18	12.6	1.8	14.0	15.0	15.0	15.0	11.0	100	
	SY10x64	64	10	33	2.2	18	1.8	22	15.6	1.8	15.0	16.0	16.0	16.0	11.0	100	
	SY10x76	76	10	38	2.1	16	1.7	27	17.8	1.7	16.0	17.0	17.0	17.0	11.0	100	
SY10x305	305	10	100	20.3	22	4.8	57	70.3	7.7	96.9	107	125.3	135	10			
13	SY13x25	25	13	15	1.7	10	3.9	10	5.8	1.9	8.9	10.2	11.3	11.9	10.3	100	
	SY13x32	32	13	15	2.1	15	1.9	12	7.1	2.1	11.3	12.2	13.1	13.1	11.1	100	
	SY13x38	38	13	20	2.2	17	1.9	14	8.9	1.9	12.2	13.1	13.1	13.1	11.1	100	
	SY13x44	44	13	25	2.2	18	1.8	16	10.7	1.8	13.1	14.0	14.0	14.0	11.0	100	
	SY13x51	51	13	25	2.4	17	1.8	18	12.6	1.8	14.0	15.0	15.0	15.0	11.0	100	
	SY13x64	64	13	33	2.2	18	1.8	22	15.6	1.8	15.0	16.0	16.0	16.0	11.0	100	
	SY13x76	76	13	38	2.1	16	1.7	27	17.8	1.7	16.0	17.0	17.0	17.0	11.0	100	
SY13x89	89	13	44	2.0	16	1.7	34	20.6	1.7	17.0	18.0	18.0	18.0	11.0	100		
SY13x305	305	13	100	20.3	25	7.0	90	70.3	8.9	96.9	106	125.3	135	10			
16	SY16x25	25	16	15	1.7	10	3.9	10	5.8	1.9	8.9	10.2	11.3	11.9	10.3	100	
	SY16x32	32	16	15	2.1	15	1.9	12	7.1	2.1	11.3	12.2	13.1	13.1	11.1	100	
	SY16x38	38	16	20	2.2	17	1.9	14	8.9	1.9	12.2	13.1	13.1	13.1	11.1	100	
	SY16x44	44	16	25	2.2	18	1.8	16	10.7	1.8	13.1	14.0	14.0	14.0	11.0	100	
	SY16x51	51	16	25	2.4	17	1.8	18	12.6	1.8	14.0	15.0	15.0	15.0	11.0	100	
	SY16x64	64	16	33	2.2	18	1.8	22	15.6	1.8	15.0	16.0	16.0	16.0	11.0	100	
	SY16x76	76	16	38	2.1	16	1.7	27	17.8	1.7	16.0	17.0	17.0	17.0	11.0	100	
SY16x89	89	16	44	2.0	16	1.7	34	20.6	1.7	17.0	18.0	18.0	18.0	11.0	100		
SY16x102	102	16	50	1.9	15	1.7	41	23.5	1.7	18.0	19.0	19.0	19.0	11.0	100		
SY16x305	305	16	100	20.3	25	7.0	90	70.3	8.9	96.9	106	125.3	135	10			
19	SY19x25	25	19	15	1.7	10	3.9	10	5.8	1.9	8.9	10.2	11.3	11.9	10.3	100	
	SY19x32	32	19	15	2.1	15	1.9	12	7.1	2.1	11.3	12.2	13.1	13.1	11.1	100	
	SY19x38	38	19	20	2.2	17	1.9	14	8.9	1.9	12.2	13.1	13.1	13.1	11.1	100	
	SY19x44	44	19	25	2.2	18	1.8	16	10.7	1.8	13.1	14.0	14.0	14.0	11.0	100	
	SY19x51	51	19	25	2.4	17	1.8	18	12.6	1.8	14.0	15.0	15.0	15.0	11.0	100	
	SY19x64	64	19	33	2.2	18	1.8	22	15.6	1.8	15.0	16.0	16.0	16.0	11.0	100	
	SY19x76	76	19	38	2.1	16	1.7	27	17.8	1.7	16.0	17.0	17.0	17.0	11.0	100	
SY19x89	89	19	44	2.0	16	1.7	34	20.6	1.7	17.0	18.0	18.0	18.0	11.0	100		
SY19x102	102	19	50	1.9	15	1.7	41	23.5	1.7	18.0	19.0	19.0	19.0	11.0	100		
SY19x115	115	19	55	1.8	14	1.7	48	26.4	1.7	19.0	20.0	20.0	20.0	11.0	100		
SY19x127	127	19	60	1.7	13	1.7	55	29.3	1.7	20.0	21.0	21.0	21.0	11.0	100		
SY19x139	139	19	65	1.6	12	1.7	62	32.2	1.6	21.0	22.0	22.0	22.0	11.0	100		
SY19x152	152	19	70	1.5	11	1.7	69	35.1	1.5	22.0	23.0	23.0	23.0	11.0	100		
SY19x305	305	19	100	19.9	19	4.9	103	103.0	11.5	116.9	126	145.3	155	10			
26	SY26x25	25	26	15	1.7	10	3.9	10	5.8	1.9	8.9	10.2	11.3	11.9	10.3	100	
	SY26x32	32	26	15	2.1	15	1.9	12	7.1	2.1	11.3	12.2	13.1	13.1	11.1	100	
	SY26x38	38	26	20	2.2	17	1.9	14	8.9	1.9	12.2	13.1	13.1	13.1	11.1	100	
	SY26x44	44	26	25	2.2	18	1.8	16	10.7	1.8	13.1	14.0	14.0	14.0	11.0	100	
	SY26x51	51	26	25	2.4	17	1.8	18	12.6	1.8	14.0	15.0	15.0	15.0	11.0	100	
	SY26x64	64	26	33	2.2	18	1.8	22	15.6	1.8	15.0	16.0	16.0	16.0	11.0	100	
	SY26x76	76	26	38	2.1	16	1.7	27	17.8	1.7	16.0	17.0	17.0	17.0	11.0	100	
SY26x89	89	26	44	2.0	16	1.7	34	20.6	1.7	17.0	18.0	18.0	18.0	11.0	100		
SY26x102	102	26	50	1.9	15	1.7	41	23.5	1.7	18.0	19.0	19.0	19.0	11.0	100		
SY26x115	115	26	55	1.8	14	1.7	48	26.4	1.7	19.0	20.0	20.0	20.0	11.0	100		
SY26x127	127	26	60	1.7	13	1.7	55	29.3	1.7	20.0	21.0	21.0	21.0	11.0	100		
SY26x139	139	26	65	1.6	12	1.7	62	32.2	1.6	21.0	22.0	22.0	22.0	11.0	100		
SY26x152	152	26	70	1.5	11	1.7	69	35.1	1.5	22.0	23.0	23.0	23.0	11.0	100		
SY26x178	178	26	80	1.4	10	1.7	84	41.0	1.4	26.0	27.0	27.0	27.0	11.0	100		
SY26x203	203	26	90	1.3	9	1.7	99	46.9	1.3	30.0	31.0	31.0	31.0	11.0	100		
SY26x305	305	26	100	1.3	9	1.7	114	52.8	1.3	34.0	35.0	35.0	35.0	11.0	100		



YEŞİL YAY

Hafif Yük

Kalite
ISO
10243



Renk
YEŞİL
RAL 6002

Performans
80%

Ürün	D _H	D _S	L ₀	R _G	f _{BL}	A	B	C	D	E	PCS	ID _H					
	Dış Çap	İç Çap	Sarbest Uzunluk	Yük Katsayısı	Max. Esneme	13% _{fBL}	30% _{fBL}	45% _{fBL}	62% _{fBL}	80% _{fBL}	PSE (mm)						
Kod	mm	mm	mm	N/mm	mm	mm	N	mm	N	mm	N	mm	N	mm	N	mm	N
YY32 x 38	38	34,0	19	9,4	299	5,6	699	8,4	735	11,9	1093	5,0	14,0	60			
YY32 x 44	44	39,5	23	2,9	233	6,6	539	10,1	825	14,0	1168	5,0	14,0	50			
YY32 x 51	51	47,0	26	3,3	210	7,5	531	11,3	754	15,5	1038	5,0	14,0	50			
YY32 x 64	64	53,5	31	4,7	215	9,4	487	14,1	745	19,4	1027	25,0	13,25	50			
YY32 x 76	76	64,0	38	4,9	215	11,3	435	18,3	743	23,3	1023	30,0	13,25	25			
YY32 x 89	89	75,2	46	5,7	212	13,1	391	23,7	732	27,1	1000	35,0	13,25	25			
YY32 x 102	102	82,0	51	6,7	213	15,1	342	29,1	735	31,3	1017	41,0	13,2	20			
YY32 x 115	115	89,3	58	7,5	217	17,3	300	25,9	750	35,7	1009	46,0	13,25	20			
YY32 x 127	127	95,0	61	8,3	207	19,1	275	25,7	717	39,5	995	51,0	13,25	20			
YY32 x 139	139	103,0	70	9	209	21,0	241	31,5	725	43,1	925	56,0	13,25	10			
YY32 x 152	152	111,5	76	9,9	213	22,9	232	34,3	736	47,3	1019	61,0	13,2	10			
YY32 x 178	178	126,2	89	11,5	210	25,6	191	39,9	727	55,0	1001	71,0	13,25	10			
YY32 x 203	203	135,8	111	13,2	208	31,4	181	45,6	720	63,8	922	81,0	13,25	10			
YY32 x 254	254	175,5	138	15,5	207	35,0	175	61,4	717	79,1	885	102,0	13,25	5			
YY32 x 305	305	210,3	153	19,6	204	45,0	171	68,9	737	84,3	874	122,0	13,25	5			
YY38 x 51	51	47,0	26	3,3	290	7,5	690	11,3	1025	15,5	1476	20,0	16,40	25			
YY38 x 64	64	53,5	31	4,7	287	9,4	619	14,1	1097	19,4	1474	25,0	16,25	25			
YY38 x 76	76	64,0	38	4,9	307	11,3	579	18,3	1063	23,3	1465	30,0	16,25	25			
YY38 x 89	89	75,2	46	5,7	290	13,1	509	19,7	1004	27,1	1369	35,0	16,25	25			
YY38 x 102	102	82,0	51	6,7	286	15,1	461	23,1	932	31,3	1366	41,0	16,25	20			
YY38 x 115	115	89,3	58	7,5	286	17,3	406	25,9	1005	35,7	1412	46,0	16,25	20			
YY38 x 127	127	97,0	61	8,3	307	19,1	376	28,7	1081	39,5	1462	51,0	16,25	10			
YY38 x 139	139	103,0	70	9	301	21,0	342	31,5	1009	43,1	1380	56,0	16,25	10			
YY38 x 152	152	111,5	76	9,9	279	22,9	311	34,3	931	47,3	1321	61,0	16,25	10			
YY38 x 178	178	126,2	89	11,5	281	25,6	271	39,9	1000	55,0	1387	71,0	16,25	10			
YY38 x 203	203	135,8	111	13,2	289	31,4	261	45,6	1000	63,8	1425	81,0	16,25	10			
YY38 x 254	254	175,2	138	15,5	282	35,0	250	61,4	975	79,1	1341	102,0	16,25	5			
YY38 x 305	305	210,3	153	19,6	283	45,0	247	68,9	1019	84,3	1389	122,0	16,40	5			
YY51 x 76	76	72,0	30	4	634	9,4	1461	14,1	2194	19,4	3023	25,0	20,00	10			
YY51 x 89	89	79,5	36	4,9	609	11,3	1303	16,3	2152	23,3	2928	30,0	20,00	10			
YY51 x 102	102	87,0	42	5,7	620	13,1	1211	18,1	2140	27,1	2967	35,0	20,0	10			
YY51 x 115	115	94,5	48	6,7	626	15,1	1145	20,1	2193	31,1	2987	41,0	20,00	10			
YY51 x 127	127	102,0	54	7,6	605	17,3	1067	22,9	2025	35,7	2888	46,0	20,00	4			
YY51 x 139	139	109,5	60	8,3	633	19,1	1008	25,7	2087	39,5	2929	51,0	20,00	4			
YY51 x 152	152	117,0	66	9,9	605	21,0	937	31,5	2095	43,1	2886	56,0	20,00	4			
YY51 x 178	178	126,2	76	9,9	605	22,9	879	34,3	2091	47,3	2897	61,0	20,00	4			
YY51 x 203	203	135,8	89	11,5	600	25,6	825	39,9	2077	55,0	2861	71,0	20,00	4			
YY51 x 254	254	175,2	111	13,2	579	31,4	777	45,6	2007	63,8	2782	81,0	20,00	4			
YY51 x 305	305	215,0	138	15,5	580	35,0	731	61,4	2029	79,1	2767	102,0	20,00	4			
YY51 x 305	305	215,5	138	15,6	585	35,1	734	61,5	1950	81,1	2625	102,0	20,00	4			
YY63 x 76	76	72,0	30	4	871	11,3	2127	15,9	3189	23,3	3391	30,0	25,00	10			
YY63 x 89	89	79,5	36	5,7	809	13,1	2064	18,1	3111	27,1	4708	35,0	25,00	10			
YY63 x 102	102	87,0	42	6,7	823	15,1	2011	20,1	3027	31,1	3163	41,0	25,00	10			
YY63 x 115	115	94,5	48	7,6	867	17,3	2001	22,9	3027	35,7	4155	46,0	25,00	4			
YY63 x 127	127	102,0	48	8,3	894	19,1	1915	25,7	2985	39,5	4011	51,0	25,00	4			
YY63 x 139	139	109,5	54	9,6	836	21,0	1803	34,3	2933	43,1	3985	61,0	25,00	4			
YY63 x 152	152	117,0	60	9,9	825	22,9	1804	34,9	2936	47,3	3984	71,0	25,00	4			
YY63 x 178	178	126,2	76	11,5	825	25,6	1764	39,9	2936	55,0	3984	81,0	25,00	4			
YY63 x 203	203	135,8	89	13,2	812	31,4	1644	45,6	2911	63,8	3813	91,0	25,00	4			
YY63 x 254	254	175,2	111	15,5	779	35,0	1575	61,4	2927	79,1	3715	102,0	25,00	4			
YY63 x 305	305	215,0	138	19,6	757	45,0	1498	79,9	2921	84,3	3612	122,0	25,00	4			

32

38

51

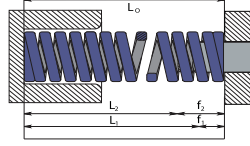
63

Kare Kesitli Kalıp Yayları



MAVİ YAY

Orta Ağır Yük



D _İ mm	Ürün Kod	D _İ Çap mm	D _S İç Çap mm	L ₀ Serbest Uzunluk mm	R _G Yük Kapasitesi N/mm	f _{BL} Max. Esnerme mm	A 13% _{BL} mm	N	B 30% _{BL} mm	N	C 45% _{BL} mm	N	D 62% _{BL} mm	N	E 80% _{BL} mm	N	PCS
10	MY 10 x 25	25	19.0	12	1.5	3.5	5.7	5.3	10.7	5.3	16.1	5.3	22.7	18	26.5	192	100
	MY 10 x 32	32	23.0	16	2.0	4.5	7.5	6.9	15.0	6.9	20.0	6.9	27.7	23	32.2	150	100
	MY 10 x 38	38	29.0	18	2.3	2.5	5.4	8.1	16.1	8.1	22.2	8.1	30.0	26	38.1	121	100
	MY 10 x 44	44	35.0	27	2.7	2.5	6.3	9.4	18.7	9.4	24.9	9.4	32.9	35	42.0	100	100
	MY 10 x 51	51	41.9	24	3.2	2.5	7.3	10.8	21.6	10.8	28.4	10.8	37.4	41	49.0	100	100
	MY 10 x 64	64	51.0	31	3.9	3.1	9.1	12.7	25.4	12.7	33.6	12.7	44.4	51	58.0	100	100
	MY 10 x 78	78	63.0	36	4.7	2.5	10.8	15.0	30.0	15.0	40.0	15.0	52.0	63	70.0	100	100
MY 10 x 305	305	250	180	45	3.3	31	42.5	70	42.5	104	42.5	138.9	44	176.0	36	30	
13	MY 13 x 25	25	20.0	12	1.5	4.6	5.5	10.7	5.5	11.0	5.5	16.1	11	22	26.5	100	100
	MY 13 x 32	32	24.0	16	2.0	4.9	4.5	11.9	6.9	17.0	6.9	23.1	12.2	28.3	100	100	
	MY 13 x 38	38	29.0	18	2.3	5.9	5.4	13.6	8.1	17.2	11.2	23.0	14.1	32.8	100	100	
	MY 13 x 44	44	35.0	27	2.7	5.0	6.3	14.6	9.4	17.7	12.2	23.9	16.7	33.9	100	100	
	MY 13 x 51	51	41.9	24	3.2	4.9	7.3	16.2	10.8	19.0	16.0	23.6	19.1	33.1	100	100	
	MY 13 x 64	64	51.0	31	3.9	5.1	9.1	13.7	12.7	19.6	16.8	23.6	21.3	28.1	100	100	
	MY 13 x 78	78	63.0	36	4.7	4.6	10.8	15.1	16.3	19.6	22.1	23.6	26.9	23.6	100	100	
MY 13 x 89	89	75.0	42	5.5	4.6	12.7	16.8	19.0	19.6	26.2	23.0	23.6	28.1	100	100		
MY 13 x 305	305	250	180	45	3.3	40	42.5	81	42.5	137	42.5	104	44	176.0	244	70	
16	MY 16 x 25	25	19.0	12	1.5	7.5	3.5	17.0	5.3	10.6	5.3	16.1	11	22	26.5	100	100
	MY 16 x 32	32	23.0	16	2.0	7.4	4.3	17.9	6.9	23.6	6.9	23.1	12.2	28.3	100	100	
	MY 16 x 38	38	29.0	18	2.3	7.4	5.4	18.2	8.1	23.6	11.2	23.6	14.1	28.3	100	100	
	MY 16 x 44	44	35.0	27	2.7	8.1	6.3	18.8	9.4	23.2	12.2	23.6	16.7	31.1	100	100	
	MY 16 x 51	51	41.9	24	3.2	8.3	7.3	19.2	10.8	23.2	16.0	23.6	19.1	31.2	100	100	
	MY 16 x 64	64	51.0	31	3.9	8.1	9.1	16.7	12.7	23.6	18.8	23.6	21.3	28.1	100	100	
	MY 16 x 78	78	63.0	36	4.7	8.1	9.1	16.7	12.7	23.6	22.1	23.6	26.9	23.6	100	100	
MY 16 x 89	89	75.0	42	5.5	8.5	10.7	19.2	13.0	23.6	25.2	23.6	23.6	28.1	100	100		
MY 16 x 102	102	87.0	48	6.3	8.6	12.7	19.6	13.0	23.6	30.1	23.6	26.8	28.1	100	100		
MY 16 x 305	305	250	180	45	3.3	30	42.5	20.9	42.5	113	42.5	104	44	176.0	244	70	
19	MY 19 x 25	25	19.0	12	1.5	10.0	3.5	24.5	5.3	11.9	5.3	16.1	11	22	26.5	100	100
	MY 19 x 32	32	23.0	16	2.0	10.0	4.3	25.7	6.9	14.9	6.9	23.1	12.2	28.3	100	100	
	MY 19 x 38	38	29.0	18	2.3	10.0	5.3	26.4	8.1	14.4	8.1	23.6	14.1	28.3	100	100	
	MY 19 x 44	44	35.0	27	2.7	10.7	6.3	26.5	9.4	14.1	12.2	23.6	16.7	28.3	100	100	
	MY 19 x 51	51	41.9	24	3.1	10.9	7.1	25.7	10.8	14.7	14.7	19.0	19.1	28.3	100	100	
	MY 19 x 64	64	51.0	31	3.9	10.0	8.0	26.1	12.7	13.6	16.0	23.6	21.3	28.1	100	100	
	MY 19 x 78	78	63.0	36	4.6	11.4	8.5	26.4	13.0	13.6	19.6	23.6	26.9	23.6	100	100	
MY 19 x 89	89	75.0	42	5.4	11.8	10.7	27.2	13.0	13.6	22.6	23.6	23.6	28.1	100	100		
MY 19 x 102	102	87.0	48	6.2	12.2	11.9	26.2	13.7	13.6	25.0	23.6	23.6	28.1	100	100		
MY 19 x 116	116	99.0	54	7.0	10.9	11.9	25.2	14.2	13.6	23.6	23.6	23.6	28.1	100	100		
MY 19 x 127	127	110.0	60	7.8	10.9	12.7	24.2	14.2	13.6	23.2	23.6	23.6	28.1	100	100		
MY 19 x 139	139	121.0	66	8.5	12.8	13.5	25.9	14.2	14.0	23.6	23.6	23.6	28.1	100	100		
MY 19 x 152	152	132.0	72	9.3	12.2	14.7	26.2	14.2	14.2	23.6	23.6	23.6	28.1	100	100		
MY 19 x 305	305	250	180	45	3.3	12.8	13.1	42.5	14.2	14.2	42.5	104	44	176.0	244	70	
26	MY 26 x 25	25	14.7	10	1.5	29.5	3.5	5.8	5.3	7.7	5.3	10.7	11	13.6	100	100	
	MY 26 x 32	32	18.3	16	2.0	29.3	4.3	30	6.9	7.9	6.9	13.6	12.2	14.8	100	100	
	MY 26 x 38	38	23.0	18	2.3	29.2	5.3	40.8	8.1	7.9	7.9	16.9	14.1	13.6	100	100	
	MY 26 x 44	44	29.0	27	2.7	29.2	6.3	40.6	9.4	8.3	8.3	18.8	16.7	13.6	100	100	
	MY 26 x 51	51	35.0	36	3.1	29.2	7.1	40.8	10.8	8.3	8.3	20.0	19.1	13.6	100	100	
	MY 26 x 64	64	43.0	45	3.9	29.2	8.0	41.7	12.7	8.3	8.3	21.6	21.3	13.6	100	100	
	MY 26 x 78	78	53.0	54	4.6	18.7	10.8	41.9	13.0	8.3	8.3	23.6	23.6	13.6	100	100	
MY 26 x 89	89	63.0	63	5.4	20.5	11.9	42.7	13.0	8.3	8.3	25.0	23.6	13.6	100	100		
MY 26 x 102	102	73.0	72	6.2	20.4	12.8	43.0	13.0	8.3	8.3	26.2	23.6	13.6	100	100		
MY 26 x 116	116	83.0	81	7.0	19.8	13.6	43.3	13.0	8.3	8.3	27.2	23.6	13.6	100	100		
MY 26 x 127	127	93.0	89	7.8	20.2	14.6	43.0	13.0	8.3	8.3	28.1	23.6	13.6	100	100		
MY 26 x 139	139	103.0	97	8.5	19.6	15.5	43.5	13.0	8.3	8.3	29.0	23.6	13.6	100	100		
MY 26 x 152	152	113.0	105	9.3	19.9	16.4	43.5	13.0	8.3	8.3	30.1	23.6	13.6	100	100		
MY 26 x 178	178	138.0	134	11.1	19.4	18.4	44.3	13.0	8.3	8.3	31.9	23.6	13.6	100	100		
MY 26 x 203	203	159.0	154	12.4	19.5	20.0	44.3	13.0	8.3	8.3	33.9	23.6	13.6	100	100		
MY 26 x 305	305	250	180	45	3.3	19.9	42.9	43.8	13.0	8.3	8.3	36.4	23.6	13.6	100	100	



MAVİ YAY

Orta Ağır Yük



Ürün	D _H	D _S	L ₀	R _G	f _{BL}	A	B	C	D	E	PCS	D _{Di}		
	Dış Çap	İç Çap	Serbest Uzunluk	Yük Kategorisi	Max. Esneme	13% _{f_{BL}}	30% _{f_{BL}}	45% _{f_{BL}}	62% _{f_{BL}}	80% _{f_{BL}}	PSE			
Kod	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	
MY 32 x 38	36	186,0	16	2,3	42	5,1	37	7,3	1457	10,9	2037	14,0	2390	53
MY 32 x 44	44	186,0	21	2,7	42	6,2	39,0	8,0	1456	12,6	2030	16,5	2467	59
MY 32 x 51	51	186,0	24	3,1	4,4	7,1	35,5	10,7	1437	14,7	1873	19,0	2526	53
MY 32 x 64	64	88,0	30	3,9	36,0	9,0	39	13,6	1237	18,6	1641	24,0	2678	59
MY 32 x 76	76	88,0	36	4,8	36,0	10,5	34,5	16,6	1238	21,7	1447	28,0	2784	25
MY 32 x 89	89	88,1	41	5,4	37	12,4	33,6	18,6	1233	25,6	1787	33,0	2880	25
MY 32 x 102	102	88,9	48	6,2	36,0	14,3	33,0	21,4	1236	29,6	1732	38,0	2934	23
MY 32 x 116	116	87,8	54	7,0	36,0	16,2	33,0	24,3	1245	33,5	1718	43,0	2915	23
MY 32 x 127	127	44,9	60	7,8	34,8	18,0	33,0	27,0	1270	37,2	1687	48,0	2950	23
MY 32 x 139	139	42,9	66	8,5	36,7	19,5	32,5	29,5	1237	40,5	1735	52,0	2930	13
MY 32 x 152	152	37,9	71	9,3	36,0	21,4	33,0	32,1	1212	44,2	1670	57,0	2955	13
MY 32 x 178	178	32,8	84	10,8	36,6	25,7	31,7	37,7	1226	51,9	1658	67,0	2918	13
MY 32 x 203	203	28,8	96	12,4	36,7	28,6	30,4	40,5	1236	59,0	1707	76,0	2938	13
MY 32 x 254	254	27,4	110	15,7	35,0	35,6	26,2	53,4	1114	73,6	1618	89,0	2433	6
MY 32 x 305	305	27,4	123	18,5	33,0	42,3	26,2	67,1	1113	89,1	1617	114,0	2085	6
MY 38 x 51	51	181,6	24	3,1	36,7	7,1	12,04	10,7	1621	14,7	2674	19,0	3463	25
MY 38 x 64	64	190,0	30	3,9	31,6	8,0	12,60	13,5	1830	18,6	2631	24,0	3583	25
MY 38 x 76	76	106,0	36	4,8	49	10,5	11,24	13,6	1731	21,7	2544	28,0	3024	25
MY 38 x 89	89	90,7	41	5,4	43,8	12,4	11,22	13,6	1631	25,6	2320	33,0	2933	25
MY 38 x 102	102	87,8	48	6,2	39,0	14,3	11,51	21,4	1731	29,6	2285	38,0	3073	23
MY 38 x 116	116	71,9	54	7,0	33,0	16,2	11,58	24,2	1737	33,5	2383	43,0	3187	23
MY 38 x 127	127	12,7	60	7,8	46,8	18,0	11,29	27,0	2033	37,2	2332	48,0	3010	19
MY 38 x 139	139	87,8	66	8,5	48,5	19,5	11,21	29,5	1632	40,5	2317	52,0	2930	13
MY 38 x 152	152	87,8	71	9,3	47,8	21,4	11,33	32,1	1654	44,2	2270	57,0	2971	13
MY 38 x 178	178	25,7	81	10,8	48,0	25	11,35	37,7	1632	51,9	2380	67,0	3355	6
MY 38 x 203	203	25,7	95	12,4	45,0	28,6	12,10	42,6	1559	59,0	2162	76,0	2789	6
MY 38 x 254	254	23,7	113	15,7	45,0	35,6	12,72	53,4	1618	73,6	2116	89,0	2880	6
MY 38 x 305	305	22,6	123	18,5	45,0	42,6	12,72	67,1	1577	89,1	2173	114,0	2661	6
MY 51 x 64	64	209,0	30	3,9	8,0	9,0	1881	13,5	2822	18,6	3887	24,0	5013	13
MY 51 x 76	76	166,0	36	4,8	76,7	10,5	17,04	13,6	2616	21,7	3676	28,0	4781	13
MY 51 x 89	89	140,0	41	5,4	73	12,4	12,13	13,6	2530	25,6	3681	33,0	4630	13
MY 51 x 102	102	119,0	48	6,2	73,0	14,3	18,66	21,4	2614	29,6	3635	38,0	4632	13
MY 51 x 116	116	106,0	54	7,0	74	16,2	17,19	24,2	2581	33,5	3632	43,0	4558	4
MY 51 x 127	127	87,8	60	7,8	76,7	18,0	17,50	27,0	2616	37,2	3638	48,0	4638	4
MY 51 x 139	139	87,8	66	8,5	73,6	19,5	18,97	29,5	2616	40,5	3636	52,0	4634	4
MY 51 x 152	152	66,0	71	9,3	74	21,4	13,10	32,1	2585	44,2	3634	57,0	4630	4
MY 51 x 178	178	69,5	84	10,8	76,7	25,7	12,66	37,7	2614	51,9	3638	67,0	4637	4
MY 51 x 203	203	66,8	96	12,4	73,6	28,6	12,14	42,6	2568	59,0	3622	76,0	4425	4
MY 51 x 229	229	20,8	100	14,0	71	32,3	12,42	49,4	2482	67,1	3382	89,0	4377	4
MY 51 x 254	254	42,8	110	15,4	81,6	36,6	12,84	53,4	2286	73,6	3232	100,0	4111	4
MY 51 x 305	305	38,0	123	18,5	71,6	42,6	12,50	67,1	2415	89,1	3410	114,0	4400	4
MY 63 x 76	76	212,0	36	4,8	74,20	10,5	32,79	13,6	49,4	21,7	5770	28,0	6738	13
MY 63 x 89	89	280,0	41	5,4	120,4	12,4	32,03	13,6	4838	25,6	5653	33,0	5830	13
MY 63 x 102	102	221,0	48	6,2	128,6	14,3	31,49	21,4	4724	29,6	5428	38,0	5638	13
MY 63 x 116	116	181,0	54	7,0	120,7	16,2	30,9	24,2	4823	33,5	5232	43,0	5641	4
MY 63 x 127	127	168,0	60	7,8	121,0	18,0	30,42	27,0	4635	37,2	5230	48,0	5664	4
MY 63 x 152	152	136,0	71	9,3	128,0	21,4	28,07	32,1	4381	44,2	5008	57,0	5762	4
MY 63 x 178	178	114,0	84	10,8	124,1	25,7	28,84	37,7	4283	51,9	5010	67,0	5638	4
MY 63 x 203	203	100,0	95	12,4	123,6	28,6	28,07	42,6	4273	59,0	5895	76,0	5600	4
MY 63 x 229	229	89,2	108	14,0	127,7	32,3	25,67	49,4	4113	67,1	5975	89,0	5677	4
MY 63 x 254	254	73,4	119	15,4	121,0	35,6	27,93	53,4	4133	73,6	5772	100,0	5448	4
MY 63 x 305	305	67,7	128	18,6	129,9	42,6	27,61	67,1	4123	89,1	5710	114,0	5670	4

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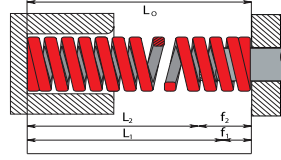
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Kare Kesitli Kalıp Yayları



KIRMIZI YAY

Ağır Yük



D _H	Ürün	D _S	L ₀	R _G	f _{BL}	A	B	C	D	E	PCS					
												Dış Çap	İç Çap	Serbest Uzunluk	Yük Katsayısı	Max. Esneme
mm	Kod	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm	N	
10	KY 10 x 25	25	22,1	9	1,2	27	2,8	62	4,2	93	5,8	129	7,5	166	100	
	KY 10 x 32	32	17,5	12	1,6	27	3,6	63	5,4	95	7,4	130	9,6	168	100	
	KY 10 x 38	38	12,7	14	1,9	32	4,3	73	6,4	110	8,8	151	15,4	195	100	
	KY 10 x 44	44	15,0	17	2,1	32	5,0	74	7,4	111	10,2	153	13,2	199	100	
	KY 10 x 51	51	12,8	19	2,5	32	5,7	73	8,6	116	11,9	152	15,3	199	100	
	KY 10 x 64	64	10,7	24	3,1	23	7,2	77	10,8	116	14,9	159	19,2	205	100	
	KY 10 x 76	76	7,5	29	3,7	28	8,6	64	12,8	95	17,7	133	22,8	171	100	
KY 10 x 305	305	2,1	114	14,9	31	34,3	72	51,5	108	70,9	149	91,5	192	10		
13	KY 13 x 25	25	42,1	9	1,2	51	2,8	118	4,2	128	5,8	245	7,5	318	100	
	KY 13 x 32	32	33,2	12	1,6	52	3,6	120	5,4	129	7,4	247	9,6	319	100	
	KY 13 x 38	38	29,3	14	1,9	54	4,3	125	6,4	138	8,8	259	11,4	334	100	
	KY 13 x 44	44	24,6	17	2,1	53	5,0	122	7,4	133	10,2	252	13,2	325	100	
	KY 13 x 51	51	19,6	19	2,5	49	5,7	113	8,6	159	11,9	253	15,3	301	100	
	KY 13 x 64	64	15,0	24	3,1	47	7,2	108	10,8	162	14,9	223	19,2	283	100	
	KY 13 x 76	76	13,2	29	3,7	49	8,6	113	12,8	169	17,7	233	22,8	301	100	
KY 13 x 305	305	2,8	114	14,9	42	34,3	96	51,5	144	70,9	199	91,5	256	10		
16	KY 16 x 25	25	75,7	9	1,2	92	2,8	213	4,2	319	5,8	440	7,5	568	100	
	KY 16 x 32	32	57,8	12	1,6	82	3,6	190	5,4	285	7,4	393	9,6	507	100	
	KY 16 x 38	38	48,5	14	1,9	90	4,3	207	6,4	311	8,8	424	11,4	553	100	
	KY 16 x 44	44	42,8	17	2,1	92	5,0	212	7,4	318	10,2	438	13,2	565	100	
	KY 16 x 51	51	36,1	19	2,5	92	5,7	213	8,6	319	11,9	440	15,3	568	100	
	KY 16 x 64	64	30,3	24	3,1	95	7,2	216	10,8	327	14,9	451	19,2	582	100	
	KY 16 x 76	76	25,7	29	3,7	95	8,6	220	12,8	330	17,7	454	22,8	586	100	
KY 16 x 305	305	7,1	114	14,9	106	34,3	244	51,5	365	70,9	504	91,5	650	10		
19	KY 19 x 25	25	216,0	9	1,2	263	2,8	608	4,2	911	5,8	1256	7,5	1620	100	
	KY 19 x 32	32	168,0	12	1,6	262	3,6	605	5,4	907	7,4	1250	9,6	1613	100	
	KY 19 x 38	38	129,0	14	1,9	291	4,3	632	6,4	998	8,8	1300	11,4	1719	100	
	KY 19 x 44	44	112,0	17	2,1	237	4,9	546	7,3	819	10,1	1128	13,2	1456	100	
	KY 19 x 51	51	94,0	19	2,5	229	5,6	519	8,4	793	11,6	1093	15,0	1410	100	
	KY 19 x 64	64	72,1	24	3,1	225	7,1	514	10,7	771	14,7	1062	19,0	1370	100	
	KY 19 x 76	76	59,7	29	3,7	223	8,6	515	12,9	772	17,8	1064	23,0	1373	100	
KY 19 x 305	305	5,6	34	4,4	222	10,1	511	15,2	767	20,9	1057	27,0	1364	50		
19	KY 19 x 102	102	44,2	39	5,0	223	11,6	514	17,4	771	24,0	1062	31,0	1370	50	
	KY 19 x 115	115	38,4	44	5,7	218	13,1	504	19,7	756	27,1	1042	35,0	1344	50	
	KY 19 x 127	127	34,1	48	6,2	211	14,3	486	21,4	729	29,4	1004	38,0	1296	50	
	KY 19 x 139	139	31,0	53	6,8	212	15,8	488	23,6	732	32,5	1009	42,0	1302	50	
	KY 19 x 152	152	28,2	58	7,5	211	17,2	486	25,9	730	35,6	1005	46,0	1297	50	
	KY 19 x 305	305	10,5	114	14,8	222	34,1	512	51,2	768	70,9	1038	91,0	1365	10	
	26	KY 26 x 25	25	375,0	9	1,2	457	2,8	1055	4,2	1582	5,8	2180	7,5	2813	100
KY 26 x 32		32	297,0	12	1,6	463	3,6	1059	5,4	1604	7,4	2210	9,6	2851	100	
KY 26 x 38		38	219,0	14	1,8	392	4,1	903	6,2	1355	8,5	1867	11,0	2409	100	
KY 26 x 44		44	187,0	16	2,1	395	4,9	912	7,3	1367	10,1	1884	13,0	2431	100	
KY 26 x 51		51	156,0	19	2,4	380	5,6	878	8,4	1316	11,6	1814	15,0	2340	100	
KY 26 x 64		64	123,0	24	3,1	380	7,1	876	10,7	1315	14,7	1811	19,0	2337	100	
KY 26 x 76		76	99,0	29	3,7	370	8,6	859	12,9	1281	17,8	1765	23,0	2277	50	
KY 26 x 89	89	84,0	34	4,4	369	10,1	851	15,2	1276	20,9	1758	27,0	2268	50		
26	KY 26 x 102	102	73,0	39	5,0	368	11,6	849	17,4	1273	24,0	1754	31,0	2263	50	
	KY 26 x 115	115	65,0	44	5,7	370	13,1	853	19,7	1280	27,1	1764	35,0	2276	50	
	KY 26 x 127	127	57,7	48	6,2	356	14,3	822	21,4	1233	29,4	1699	38,0	2193	50	
	KY 26 x 139	139	52,7	53	6,8	360	15,8	830	23,6	1235	32,5	1715	42,0	2133	50	
	KY 26 x 152	152	47,8	58	7,5	357	17,2	825	25,9	1237	35,6	1704	46,0	2199	50	
	KY 26 x 178	178	41,0	66	8,6	353	19,9	815	29,8	1222	41,1	1684	53,0	2173	20	
	KY 26 x 203	203	35,8	76	9,9	355	22,9	819	34,3	1226	47,3	1692	61,0	2184	20	
KY 26 x 305	305	22,9	114	14,8	339	34,1	782	51,2	1172	70,9	1675	91,0	2084	5		



KIRMIZI YAY

Ağır Yük

Kalite

ISO
10243

Kare Kesit



Renk

KIRMIZI
RAL 3000

Performans

80%

Ürün	D _H	D _S	L ₀	R _G	f _{BL}	A	B	C	D	E	PCS	D _H	
	Dış Çap	İç Çap	Serbest Uzunluk	Yük Katsayısı	Max. Esneme	13% f _{BL}	30% f _{BL}	45% f _{BL}	62% f _{BL}	80% f _{BL}	PSE		
Kod	mm	mm	mm	N/mm	mm	N	mm	N	mm	N	mm	N	mm

KY 32 x 38	38	36,0	14	1,8	864	4,1	10,1	11,2	24,0	0,5	3388	11,0	4188	50
KY 32 x 44	44	39,0	16	2,1	984	4,8	10,0	7,3	23,0	10,1	3284	13,0	4212	50
KY 32 x 51	51	279,0	19	2,4	660	5,8	10,0	0,4	22,5	11,6	3182	15,0	4000	50
KY 32 x 64	64	210,0	24	3,1	858	7,1	10,1	10,7	22,8	14,7	3122	18,0	4028	50
KY 32 x 76	76	141,0	29	3,7	648	8,8	14,4	10,0	22,5	17,8	3036	23,0	3936	25
KY 32 x 89	89	141,0	34	4,4	819	10,1	14,0	15,2	22,4	20,9	2950	27,0	3807	25
KY 32 x 102	102	120,0	39	5,0	615	11,6	14,0	17,4	21,2	24,0	2871	31,0	3722	20
KY 32 x 115	115	107,0	44	5,7	810	13,1	14,4	19,7	21,0	27,1	2822	35,0	3745	20
KY 32 x 127	127	93,0	46	6,2	374	14,8	12,6	21,4	18,8	29,4	2759	38,0	3634	20
KY 32 x 139	139	85,0	50	6,9	357	16,5	12,5	20,2	18,2	32,6	2789	42,0	3612	10
KY 32 x 152	152	75,0	56	7,5	362	18,2	14,6	24,6	20,0	38,0	2791	46,0	3598	10
KY 32 x 173	173	61,0	58	8,0	370	19,9	12,8	20,5	18,3	41,1	2780	50,0	3622	10
KY 32 x 203	203	60,0	76	10,0	360	22,0	13,2	20,8	18,5	47,5	2784	61,0	3605	10
KY 32 x 254	254	42,0	85	12,0	363	28,5	13,2	42,6	18,4	58,9	2733	70,0	3525	5
KY 32 x 305	305	28,0	114	15,0	362	37,7	13,0	51,2	18,5	70,8	2693	81,0	3485	5
KY 38 x 51	51	350,0	19	2,4	858	5,8	10,0	8,4	25,3	11,6	4089	13,0	4263	25
KY 38 x 64	64	299,0	24	3,1	357	7,1	13,7	10,7	28,5	14,7	3587	19,0	4111	25
KY 38 x 76	76	219,0	29	3,7	810	8,8	10,0	12,9	28,3	17,8	3504	23,0	3907	25
KY 38 x 89	89	190,0	34	4,4	357	10,1	10,1	18,2	28,6	20,9	3675	27,0	3125	25
KY 38 x 102	102	163,0	39	5,0	427	11,6	10,6	18,4	28,2	24,0	3516	31,0	3633	20
KY 38 x 115	115	142,0	44	5,7	319	13,1	10,4	19,7	27,0	27,1	3552	35,0	3570	20
KY 38 x 127	127	124,0	46	6,2	790	14,8	12,5	22,4	21,1	29,4	3370	38,0	3454	10
KY 38 x 139	139	115,0	50	6,9	755	16,5	12,1	23,6	21,7	32,5	3373	42,0	3430	10
KY 38 x 152	152	106,0	56	7,5	785	18,2	18,1	25,9	21,7	35,6	3273	46,0	3433	10
KY 38 x 173	173	85,0	58	8,0	757	19,9	12,9	29,5	20,3	41,1	3155	50,0	3417	5
KY 38 x 203	203	72,0	76	10,0	767	22,0	12,1	33,1	20,2	47,5	3090	61,0	3407	5
KY 38 x 254	254	47,0	85	12,0	753	28,5	12,9	47,8	20,8	58,9	2933	70,0	3333	5
KY 38 x 305	305	31,0	114	15,0	757	37,7	12,0	51,2	20,1	70,8	2897	81,0	3291	5
KY 51 x 64	64	410,0	24	3,1	225	7,1	22,5	16,7	44,4	14,7	6081	19,0	7647	10
KY 51 x 76	76	309,0	29	3,7	267	8,8	20,4	12,9	43,6	17,8	6043	23,0	7390	10
KY 51 x 89	89	268,0	34	4,4	284	10,1	23,6	15,9	43,4	20,9	6035	27,0	7275	10
KY 51 x 102	102	249,0	39	5,0	1234	11,6	28,6	17,4	43,7	24,0	5886	31,0	7485	10
KY 51 x 115	115	215,0	44	5,7	1230	13,1	20,2	19,7	43,3	27,1	5822	35,0	7355	4
KY 51 x 127	127	197,0	46	6,2	1166	14,8	27,6	21,4	43,4	29,4	5764	38,0	7295	4
KY 51 x 139	139	160,0	50	6,9	1147	16,5	28,6	23,6	38,0	32,6	5688	42,0	7268	4
KY 51 x 152	152	154,0	56	7,5	1151	18,2	26,7	25,9	38,5	35,6	5480	46,0	7034	4
KY 51 x 173	173	140,0	58	8,0	1194	19,9	29,3	29,0	38,5	41,1	5404	50,0	7107	4
KY 51 x 203	203	111,0	76	10,0	1180	22,0	29,8	34,5	40,5	47,5	5307	61,0	7111	4
KY 51 x 254	254	100,0	85	12,0	1009	28,5	30,7	42,6	38,5	58,9	5242	70,0	6794	4
KY 51 x 305	305	73,0	114	15,0	1030	37,7	29,1	49,2	37,5	70,8	5143	81,0	6543	4
KY 63 x 76	76	810,0	29	3,7	2010	8,8	58,0	19,9	69,6	17,8	13182	23,0	14214	10
KY 63 x 89	89	815,0	34	4,4	2260	10,1	38,4	15,2	68,2	20,9	12778	27,0	13808	10
KY 63 x 102	102	438,0	39	5,0	2240	11,6	36,2	17,4	70,8	24,0	12522	31,0	13478	10
KY 63 x 115	115	390,0	44	5,7	2104	13,1	40,6	19,7	70,4	27,1	12338	35,0	12840	4
KY 63 x 127	127	253,0	46	6,2	2036	14,8	41,6	21,4	71,8	29,4	12077	38,0	12654	4
KY 63 x 152	152	289,0	56	7,5	2011	18,2	46,9	25,9	69,3	35,6	12003	46,0	12374	4
KY 63 x 173	173	229,0	58	8,0	1679	19,9	44,2	29,0	67,9	41,1	12000	50,0	11876	1
KY 63 x 203	203	193,0	76	10,0	1593	22,0	49,9	31,5	67,9	47,5	11861	61,0	12078	1
KY 63 x 254	254	153,0	85	12,0	1214	28,5	41,8	42,6	66,5	58,9	11222	70,0	11790	4
KY 63 x 305	305	123,0	114	15,0	1213	37,7	43,9	51,2	66,2	70,8	10727	81,0	11418	1



SARI YAY

Çok Ağır Yük

Kalite	Kare Kesit	Renk	Performans
ISO 10243		SARI RAL1004	80%

Ürün	D _H Dış Çap	D _S İç Çap	L ₀ Serbest Uzunluk	R _G Yük Katsayısı	f _{BL} Max. Esneme	A 13%f _{BL}	B 30%f _{BL}	C 45%f _{BL}	D 62%f _{BL}	E 80%f _{BL}	PCS		
Kod	mm	mm	mm	N/mm	mm	mm	N	mm	N	mm	N	mm	mm

32	SY 32 x 38	36	50/12	12	1,5	816	10,6	1897	6,9	3820	7,4	3689	6,6	5018	68
	SY 32 x 44	44	24/14	14	1,9	935	7,1	1751	6,2	2620	6,8	2619	7,0	3668	50
	SY 32 x 51	51	28/20	16	2,1	1048	4,9	1721	7,4	2821	10,1	3647	13,0	4588	68
	SY 32 x 64	64	28/20	20	2,3	1206	6,0	1675	9,0	2470	13,4	4328	16,0	4301	68
	SY 32 x 76	76	21/55	24	3,1	1377	7,1	1957	10,7	2305	14,7	3217	19,0	4152	25
	SY 32 x 89	89	30/55	28	3,3	1545	8,0	1495	12,4	2201	17,1	3074	22,0	3367	25
	SY 32 x 102	102	35/60	33	4,2	1855	9,8	1611	14,0	2287	20,1	3123	26,0	4080	25
	SY 32 x 115	115	40/60	36	4,7	2166	10,9	1573	16,3	2394	22,9	3147	29,0	4004	25
	SY 32 x 127	127	24/60	40	5,2	2416	12,0	1495	16,0	2292	24,8	3075	32,0	3408	25
	SY 32 x 139	139	12/55	44	5,7	2733	13,1	1474	19,7	2211	27,1	3046	35,0	3301	10
SY 32 x 152	152	32/60	48	6,2	3051	14,3	1454	21,4	2180	29,4	3004	38,0	3576	10	
SY 32 x 178	178	38/60	55	7,7	3333	16,5	1455	24,6	2193	34,1	3008	44,0	3308	10	
SY 32 x 203	203	78/60	64	10,1	3677	19,7	1454	26,7	2189	39,5	3004	51,0	3078	10	
SY 32 x 254	254	55/65	80	10,7	4331	21,0	1459	30,0	2189	49,6	3010	61,0	3381	10	
SY 32 x 305	305	15/60	95	12,0	5051	23,5	1397	32,8	2055	53,9	2880	76,0	3727	10	
38	SY 38 x 51	51	38/10	16	2,1	1392	4,8	3087	7,8	4620	10,1	3627	13,0	4154	25
	SY 38 x 64	64	48/10	20	2,1	1566	6,0	3922	9,0	5383	12,4	3658	16,0	4792	25
	SY 38 x 76	76	37/10	24	3,1	1770	7,1	2760	10,7	4651	14,7	5381	19,0	5281	25
	SY 38 x 89	89	32/10	28	3,3	1945	8,0	3643	12,4	3979	17,1	5473	22,0	5762	25
	SY 38 x 102	102	30/10	33	4,2	2187	9,8	2740	14,0	4170	20,1	5629	26,0	6308	25
	SY 38 x 115	115	25/10	36	4,7	2451	10,9	3681	16,3	3987	22,9	5646	29,0	6195	25
	SY 38 x 127	127	22/10	40	5,2	2739	12,0	2652	18,0	3978	24,8	5481	32,0	7192	10
	SY 38 x 139	139	18/10	44	5,7	3041	13,1	2484	19,7	3747	27,1	5154	35,0	6660	10
	SY 38 x 152	152	16/10	48	6,2	3357	14,3	2384	21,4	3681	29,4	4948	38,0	6104	10
	SY 38 x 178	178	45/10	55	7,7	3644	16,5	2405	24,6	3411	34,1	4973	44,0	6471	10
SY 38 x 203	203	32/10	64	8,1	4004	19,7	2627	26,7	3787	39,5	5217	51,0	6732	10	
SY 38 x 254	254	37/10	80	10,7	4611	21,0	2563	30,0	3652	49,6	5607	61,0	6876	10	
SY 38 x 305	305	37/10	95	12,4	5284	23,5	2601	32,8	3453	53,9	5177	76,0	6672	10	
51	SY 51 x 64	64	20/10	24	2,4	1861	6,0	4264	9,0	5991	12,4	4789	16,0	5134	10
	SY 51 x 76	76	37/10	24	3,1	2135	7,1	4679	10,7	6173	14,7	5423	19,0	5938	10
	SY 51 x 89	89	47/10	28	3,3	2456	8,0	3610	12,4	5878	17,1	5960	22,0	6050	10
	SY 51 x 102	102	31/10	33	4,2	2711	9,8	4814	14,0	6273	20,1	6161	26,0	6148	10
	SY 51 x 115	115	32/10	36	4,7	3019	10,9	3895	16,3	5752	22,9	5919	29,0	6606	10
	SY 51 x 127	127	31/10	40	5,2	3354	12,0	3793	18,0	5685	24,8	6387	32,0	6112	10
	SY 51 x 139	139	23/10	44	5,7	3735	13,1	3363	19,7	5364	27,1	6482	35,0	6590	10
	SY 51 x 152	152	23/10	48	6,2	4155	14,3	3455	21,4	5163	29,4	6038	38,0	6069	10
	SY 51 x 178	178	21/10	55	7,7	4617	16,5	3648	24,6	5391	34,1	6182	44,0	6466	10
	SY 51 x 203	203	47/10	64	8,1	5131	19,7	3373	26,7	5305	39,5	7381	51,0	6537	10
SY 51 x 254	254	55/10	80	10,7	5801	21,0	3672	30,0	5303	49,6	7389	61,0	6792	10	
SY 51 x 305	305	47/10	95	12,4	6539	23,5	3621	32,8	5493	53,9	7480	76,0	6937	10	
63	SY 63 x 76	76	59/20	24	3,1	2903	7,1	6783	10,7	10175	14,7	10118	19,0	10638	10
	SY 63 x 89	89	51/10	28	3,5	3269	8,0	5767	12,4	10138	17,1	10561	22,0	10116	10
	SY 63 x 102	102	40/10	33	4,2	3693	9,8	6875	14,0	10198	20,1	10108	26,0	10400	10
	SY 63 x 115	115	39/10	36	4,7	4117	10,9	6293	16,3	10114	22,9	10366	29,0	10100	10
	SY 63 x 127	127	56/10	40	5,2	4593	12,0	5790	18,0	10170	24,8	10112	32,0	10390	10
	SY 63 x 152	152	45/10	48	6,2	5136	14,3	5567	21,4	10104	29,4	10106	38,0	10104	10
	SY 63 x 178	178	58/10	55	7,7	5749	16,5	6395	24,6	9304	34,1	10104	44,0	10690	10
	SY 63 x 203	203	33/10	64	8,1	6433	19,7	6465	26,7	9448	39,5	10200	51,0	10107	10
	SY 63 x 254	254	38/10	80	10,7	7275	21,0	6312	30,0	9418	49,6	10106	61,0	10832	10
	SY 63 x 305	305	21/10	95	12,4	8162	23,5	6213	32,8	9382	53,9	10240	76,0	10608	10

Vulkolon - Poliüretan - Tabak Yaylar

80 Shore
Maksimum esneme payı %30



90 Shore
Maksimum esneme payı %25



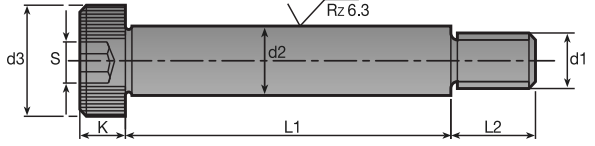
Poliüretan Yaylar Teknik Özellikleri Sipariş Şekli : D1

Teknik veri tablosuna göre **L (Tam Boy)** kullanılması tavsiye edilen uzunluktur. Shore sertliklerine göre esneme payları aşağıdaki tabloda belirtilmiştir.

D1 (Dış Çap)	d2 (Delik Çapı)	L (Tam Boy)	Sarı (80 Shore)			Kırmızı (90 Shore)		
			P Yük / kg	D Esn. Max. Çapı	F Esn. Max. Boy	P Yük / kg	D Esn. Max. Çapı	F Esn. Max. Boy
16	-	12	179	21	3,6	226	20	3
		16	173		4,8	218		5
		20	170		6,0	212		5
		25	165		7,5	208		6,25
		32	160		9,6	200		8
20	8,5	12	274	26	3,6	334	25	3
		16	270		4,8	330		5
		20	260		6,0	324		5
		25	254		7,5	320		6,25
		32	250		9,6	308		8
25	10,5	16	437	33	4,8	540	31	4
		20	425		6,0	530		5
		25	412		7,5	520		6,25
		32	40		9,6	510		8
		40	380		12,0	50		10
32	13,5	50	365	42	15,0	480	40	12,50
		16	730		4,8	930		4
		20	720		6,0	900		5
		25	690		7,5	880		6,25
		32	670		9,6	850		8
40	13,5	40	650	52	12,0	820	50	10
		50	635		15,0	810		12,50
		20	1280		6,0	1620		5
		25	1260		7,5	1550		6,25
		32	1180		9,6	1500		8
50	17	40	1170	65	12,0	1450	62	10
		50	1120		15,0	1410		12,50
		69	1100		18,9	1380		15,75
		25	1980		7,5	2500		6,25
		32	1910		9,6	2400		8
63	17	40	1850	82	12,0	2300	78	10
		50	1810		15,0	2250		12,50
		63	1760		18,9	2200		15,75
		80	1730		24,0	2150		20
		32	3400		9,6	4200		9
80	21	40	3200	104	12,0	4050	99	10
		50	3100		15,0	3900		12,50
		63	3000		18,9	3800		15,75
		80	2900		24,0	3700		20
		100	2800		30,0	3600		25
100	21	40	5500	130	12,0	6900	125	10
		50	5250		15,0	6600		12,50
		63	5050		18,9	6400		15,75
		80	4900		24,0	6200		20
		100	4750		30,0	6000		25
125	27	125	4650	160	37,5	5800	156	31,25
		50	9000		15,0	1300		12,50
		63	8600		18,9	10800		15,75
		80	8250		24,0	10400		20
		100	8000		30,0	10000		25
125	27	125	7600	160	37,5	9700	156	31,25
		160	7500		48,0	9500		40
		63	14200		18,9	17600		15,75
		80	13200		24,0	16800		20
		100	12800		30,0	16000		25
125	27	125	12400	160	37,5	15300	156	31,25
		160	12000		48,0	15000		40

Yay Ayar Civatası / YAC

Malzeme
Özel alaşımlı çelik
Yüzey
Sertleştirilmiş, taşlanmış



Sipariş Şekli : d1 x d2 x L1



d1	d2	d3	K	S	L2	L1																																	
						10	12	16	20	25	30	35	40	45	50	55	60	65	70	80	90	100	120																
M5	6	10	5	3	9.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																								
M6	8	13	6	4	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
M8	10	16	7.5	5	13			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
M10	12	18	9	6	16			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
M12	16	24	11	8	18							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
M16	20	30	14	10	22											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
M20	24	35	16	12	27																																	✓	

Bilyalı Setiskur / BS

Malzeme Özel alaşımlı çelik

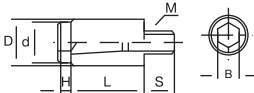


D
C
B
A

Sipariş Şekli : A

	A	B	C	D	N ₁ İlk Basıncı (newton)	N ₁₁ Nihai Basıncı (newton)
M4	9	0.8	2.5	6	12	
M5	12	0.9	3	7	13	
M6	14	1.0	3.5	9	15	
M8	16	1.5	5	20	35	
M10	19	2.0	6	25	45	
M12	22	2.5	8	35	60	
M16	24	3.5	10	65	110	

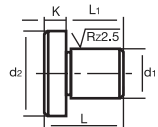
Plastik Çektirme



Sipariş Şekli : D

D	d	M	B	H	L	S
10	11.5	M6	5	4.5	18	8
12	11.5	M6	5	4.5	18	8
13	11.5	M6	5	4.5	20	8
16	14	M8	6	4.5	25	10
20	16	M10	6	5.5	30	10

Dayama Plakası



Sipariş Şekli : d1

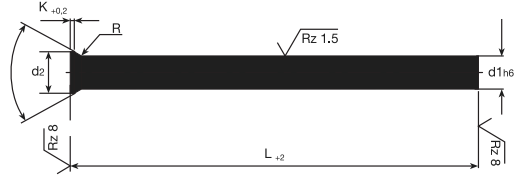
d1	d2	K	L	L1
8	16	5	17	12
14	24	6	21	15

HSS / Yüksek Hız Çeliği

Malzeme : 1.3343
Sertlik : Gövde 60/62 HRC / Kafa 45+5 HRC
Yüzey : sertleştirilmiş, taşlanmış.

HWS / %12 Krom Alaşımli Çelik

Malzeme : 1.2080
Sertlik : Gövde 60/62 HRC / Kafa 45+5 HRC
Yüzey : Sertleştirilmiş, taşlanmış.



Mevcut Ürünler

Sipariş Şekli : HSS / HWS d1 x L

d1 h6	d2	K +0,2	L ₊₂				
			71	80	100	125-130	160
0,5	0,9	0,2	✓	✓	✓		
0,6	1,1		✓	✓	✓		
0,7	1,3		✓	✓	✓		
0,8	1,4	0,4	✓	✓	✓		
0,9	1,6		✓	✓	✓		
1,0/1,1	1,8		✓	✓	✓		
1,2/1,3	2,0	0,5	✓	✓	✓		
1,4/1,5	2,2		✓	✓	✓		
1,6/1,7	2,5		✓	✓	✓		
1,8/1,9	2,8		✓	✓	✓		
2,0	3,0		✓	✓	✓	✓	✓
2,1/2,2	3,2		✓	✓	✓	✓	✓
2,3/2,5	3,5		✓	✓	✓	✓	✓
2,6/2,9	4,0		✓	✓	✓	✓	✓
3,0/3,4	4,5		✓	✓	✓	✓	✓
3,5/3,9	5,0		✓	✓	✓	✓	✓
4,0/4,4	5,5		✓	✓	✓	✓	
4,5/4,9	6,0		✓	✓	✓	✓	✓
5,0/5,4	6,5		✓	✓	✓	✓	✓
5,5/5,9	7,0		✓	✓	✓	✓	✓
6,0/6,4	8,0		✓	✓	✓	✓	✓
6,5/7,4	9,0	1,0	✓	✓	✓	✓	✓
7,5/8,4	10,0		✓	✓	✓	✓	✓
8,5/9,4	11,0		✓	✓	✓	✓	
9,5/10,0	12,0		✓	✓	✓	✓	✓
10,5/11,0	13,0		✓	✓	✓	✓	✓
11,5/12,0	14,0		✓	✓	✓	✓	✓
12,5/13,0	15,0		✓	✓	✓	✓	✓
13,5/14,0	16,0	1,5	✓	✓	✓	✓	✓
14,5/15,0	17,0		✓	✓	✓	✓	✓
16,0	18,0		✓	✓	✓	✓	✓
17,0	19,0		✓	✓	✓	✓	✓
18,0	20,0		✓	✓	✓	✓	✓
20,0	22,0		✓	✓	✓	✓	✓

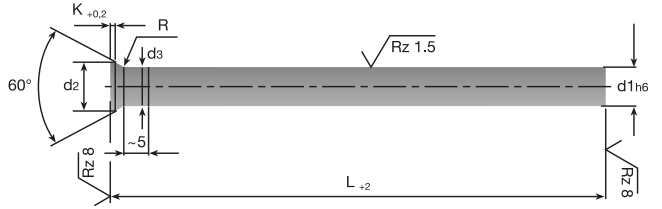
Tabloda gösterilen mevcut ürünler HSS olarak hazırlanmıştır.

HBI / Havşa Başlı İtici

Malzeme : Özel alaşımlı çelik 1.2516

Sertlik : Gövde 60/62 HRC / Kafa 45±5 HRC

Yüzey : Sertleştirilmiş, taşlanmış



Sipariş Şekli : HBI d1 x L

Mevcut Ürünler



d1 h6	d2	d3	K +0,2	L ₊₂						
				80	100	125	160	200	250	315
1,0	1,8	d1 +0,03	0,5	✓	✓	✓	✓	✓		
1,5	2,2			✓	✓	✓	✓	✓	✓	
2,0	3,0			✓	✓	✓	✓	✓	✓	✓
2,5	3,5			✓	✓	✓	✓	✓	✓	✓
3,0	4,5			✓	✓	✓	✓	✓	✓	✓
3,5	5,0			✓	✓	✓	✓	✓	✓	✓
4,0	5,5			✓	✓	✓	✓	✓	✓	✓
4,5	6,0			✓	✓	✓	✓	✓	✓	✓
5,0	6,5			✓	✓	✓	✓	✓	✓	✓
5,5	7,0			✓	✓	✓	✓	✓	✓	✓
6,0	8,0			✓	✓	✓	✓	✓	✓	✓
6,5	9,0			✓	✓	✓	✓	✓	✓	✓
7,0	9,0			✓	✓	✓	✓	✓	✓	✓
7,5	10,0			✓	✓	✓	✓	✓	✓	✓
8,0	10,0			✓	✓	✓	✓	✓	✓	✓
8,5	11,0			✓	✓	✓	✓	✓	✓	✓
9,0	11,0	✓	✓	✓	✓	✓	✓	✓		
9,5	12,0	✓	✓	✓	✓	✓	✓	✓		
10,0	12,0	✓	✓	✓	✓	✓	✓	✓		
10,5	13,0	✓	✓	✓	✓	✓	✓	✓		
11,0	13,0	✓	✓	✓	✓	✓	✓	✓		
12,0	14,0	✓	✓	✓	✓	✓	✓	✓		
13,0	15,0	✓	✓	✓	✓	✓	✓	✓		
14,0	16,0	1,5	✓	✓	✓	✓	✓	✓	✓	
16,0	18,0		✓	✓	✓	✓	✓	✓	✓	

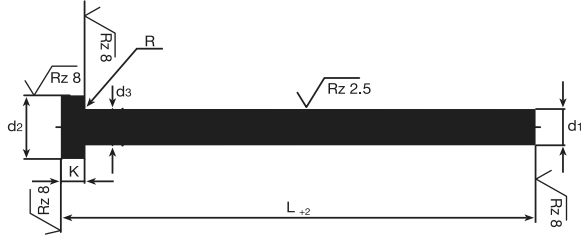
Kademeli ve özel ölçü ürünler
süratle teslim edilmektedir.

Sipariş esnasında istenilen boy ölçüsünde kısaltma yapılabilir.

Silindir Başlı İtici Pimler

Plastik Enjeksiyon SBİ / Silindir Başlı İtici

Malzeme : Özel alaşımlı çelik 1.2516
Sertlik : 60+2 HRC / Kafa 45+5 HRC
Yüzey : sertleştirilmiş, taşlanmış.



d1 g6	d2 -0,2	K -0,05	R +0,2	d3	L+2																		
					100	125	160	200	250	315	400	500	630	800	1000								
1,0	2,5	1,2	0,2	d1 +0,03	✓	✓	✓	✓	✓														
1,5	3	1,5			✓	✓	✓	✓	✓														
2,0	4	2			✓	✓	✓	✓	✓	✓	✓												
2,5	5		✓		✓	✓	✓	✓	✓	✓	✓												
3,0	6	3	0,3		✓	✓	✓	✓	✓	✓	✓	✓	✓										
3,5	7				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
4,0	8				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
4,5	10				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
5,0		✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
6,0	12	5	0,5		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6,5				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7,0				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7,5				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8,0	14	7		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8,5			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9,0	16	8	1,0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
10,0				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10,5				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11,0	18	7		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12,0				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14,0	22	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
16,0			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
18,0	24	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
20,0			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
25,0	32	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Kademeli ve özel ölçü ürünler
süratle teslim edilmektedir.

Sipariş esnasında istenilen boy ölçüsünde kısaltma yapılabilir.

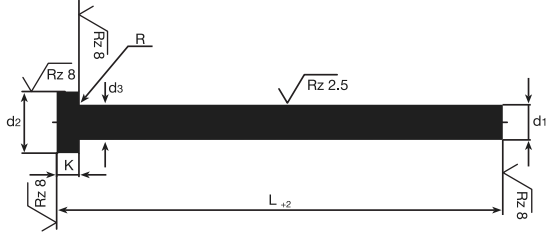
Nitrasyonlu Silindir Başlı İtici Pimler

Metal Enjeksiyon

SBI / Silindir Başlı İtici (Nitrasyonlu)

- Siyah Kaplama (SBİMS)
- Beyaz Kaplama (SBİMB)

Malzeme : Sıcak iş çeliği 1.2344
Sertlik : 65+2 HRC / Kafa 45+5 HRC
Yüzey : Nitritli ve taşlanmış



Kademeli ve özel ölçü ürünler
süratle teslim edilmektedir.

d1 g6	d2 -0,2	K -0,05	R +0,2	d3	L+2																		
					100	125	160	200	250	315	400	500	630	800	1000								
1,0	2,5	1,2	0,2	d1 +0,03	✓	✓	✓	✓															
1,5	3	1,5			✓	✓	✓	✓	✓														
2,0	4	2			✓	✓	✓	✓	✓	✓	✓												
2,5	5				✓	✓	✓	✓	✓	✓	✓												
3,0	6	3	0,3		✓	✓	✓	✓	✓	✓	✓												
3,5	7				✓	✓	✓	✓	✓	✓	✓	✓											
4,0	8				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
4,5					✓	✓	✓	✓	✓	✓	✓	✓	✓										
5,0	10				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
5,5					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
6,0	12	5	0,5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
6,5				✓	✓	✓	✓	✓	✓	✓	✓	✓											
7,0				✓	✓	✓	✓	✓	✓	✓	✓	✓											
7,5				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										
8,0				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
8,5	14	7	0,8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										
9,0				✓	✓	✓	✓	✓	✓	✓	✓	✓											
10,0				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
10,5	16	8	1,0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
11,0				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										
12,0				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
14,0				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
16,0	22	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
18,0			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
20,0			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
25,0	32	10	1,0	d1 +0,1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

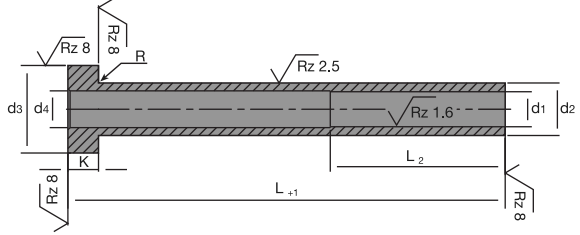
Sipariş esnasında istenilen boy ölçüsünde kısaltma yapılabilir.

Metal Enjeksiyon Boru İtici Pimler

Metal Enjeksiyon BİM / Boru İtici (Nitrasyonlu)

- Siyah Kaplama
- Beyaz Kaplama

Malzeme : Sıcak İş Çeliği 1.2344
Sertlik : 65+2 HRC / Kafa 45+5 HRC
Yüzey : Nitritli ve taşlanmış.



Sipariş Şekli : BİM d1 x d2 x L



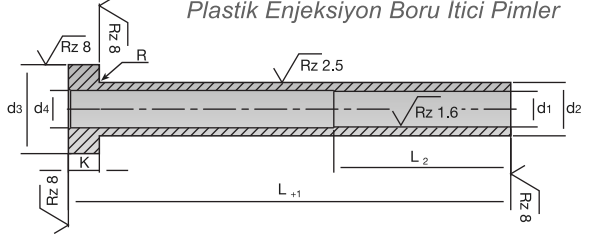
d1 H5	d2 g6	d4	d3 - 0,2	K - 0,05	R + 0,2	L2 + 2	L ₊₁									
							75	100	125	150	175	200	250	300	500	
2	4	2,4	8	3	0,3	35	✓	✓	✓	✓	✓	✓	✓	✓		
2,5	5	2,9	10				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	6	3,4	12	5	0,5	45	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3,5	7	3,9					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	8	4,4	14	7	0,7	45	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	10	5,4					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	12	6,4	16	7	0,7	45	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8	14	8,4					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	16	10,4	22	7	0,7	45	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12	18	12,4					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Kademeli ve özel ölçü ürünler
süratle teslim edilmektedir.

Plastik Enjeksiyon Boru İtici Pimler

Plastik Enjeksiyon BİP / Boru İtici (Sertleştirilmiş)

Malzeme : Özel alaşımlı çelik 1.2516
Sertlik : 60+2 HRC / Kafa 45+5 HRC
Yüzey : sertleştirilmiş, taşlanmış.



Sipariş Şekli : BIM d1 x d2 x L



d1 H5	d2 g6	d4	d3 - 0,2	K - 0,05	R +0,2	L2 +2	L ₁									
							75	100	125	150	175	200	250	300	500	
2	4	2,4	8	3	0,3	35	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2,5	5	2,9	10				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		3	3,4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3,5	6	3,9	12	5	0,5	45	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	7						✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	6	4,4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	8	5,4	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6	10	6,4	16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8	12	8,4	20	7	0,7	45	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	14	10,4	22				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	16	12,4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Kademeli ve özel ölçü ürünler
süratle teslim edilmektedir.

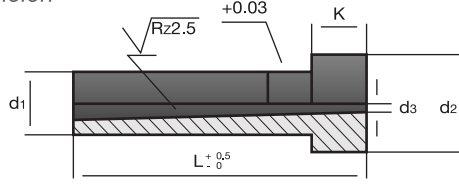
Plastik - Metal Kalıp Yolluk Memeleri

Plastik Kalıp Yolluk Memeleri / PKM

Malzeme : Özel Alaşımli Çelik
Yüzey : Sertleştirilmiş ve taşlanmış



Kademeli ve özel ölçü ürünler süratle teslim edilmektedir.



Sipariş Şekli : PKM d1 x L

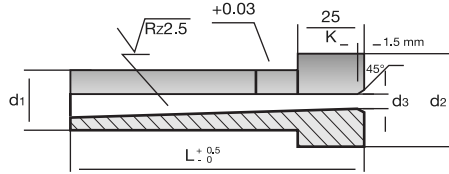
d1	d2	K	d3	L														
				50	65	75	85	95	105	115	125	135	150	200				
12	28	20	4.3 3.3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
14				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
16				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Metal Kalıp Yolluk Memeleri / MKM

Malzeme : Sıcak İş Çeliği 1.2344
Yüzey : Sertleştirilmiş ve taşlanmış



Kademeli ve özel ölçü ürünler süratle teslim edilmektedir.



Sipariş Şekli : MKM d1 x L

d1	d2	K	d3	L									
				50	65	75	85	95	105	115	125		
12	28	25	5.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	
14				✓	✓	✓	✓	✓	✓	✓	✓	✓	
16				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Kalıp Yolluk Flaşı

Malzeme : Sıcak İş Çeliği 1.2344
Yüzey : Sertleştirilmiş ve taşlanmış



İsteğe göre temin edilir.

Flaş Çapı	80	100	125	150	175	200
Kalınlık	10	10	10	10	10	10
Delik Çapı	28	28	28	28	28	28

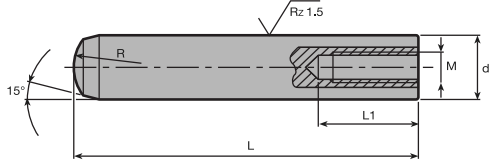
Çektirmeli - Düz Tespit Pimleri

ÇTP / Çektirmeli Tespit Pimi

Sertlik : 60 HRC

Yüzey : Sertleştirilmiş, taşlanmış

Standart : h6 toleranslı
m6 toleranslı



Sipariş Şekli : ÇTP d x L



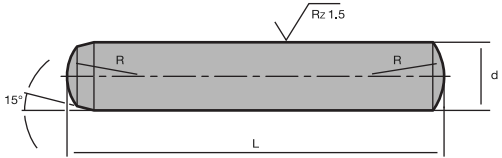
d	M	L1	L													
			20	24	30	36	40	45	50	55	60	70	80	90	100	120
6	M4	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
8	M5	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
10	M6	16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	M6	16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	M8	20					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	M8	20					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20	M10	25					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

DTP / Düz Tespit Pimi

Sertlik : 60 HRC

Yüzey : Sertleştirilmiş, taşlanmış

Standart : h6 toleranslı
m6 toleranslı



Sipariş Şekli : DTP d x L



d	L															
	10	16	20	24	30	36	40	45	50	55	60	70	80	90	100	120
3	✓	✓	✓	✓	✓	✓	✓	✓	✓							
4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

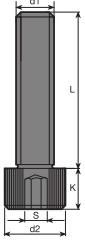
İmbus Civata Çeşitleri

Sipariş Şekli : d1 x L

İmbus Civata

8,8 - 12,9 Kalite

DIN 912

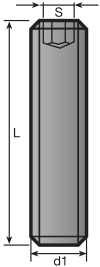


d1	d2	K	S	L																					
				10	15	20	25	30	35	40	45	50	55	60	70	80	90	100	110	120	130	140	150	160	180
M3	5,5	3	2,5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
M4	7	4	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
M5	8,5	5	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
M6	10	6	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
M8	13	8	6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
M10	16	10	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
M12	18	12	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
M14	21	14	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
M16	24	16	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
M20	30	20	17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Setiskur Civata

12,9 Kalite

DIN 916

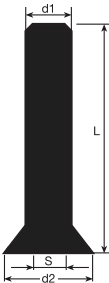


d1	S	L								
		10	15	20	25	30	35	40	50	60
M3	1,5	✓	✓	✓						
M4	2	✓	✓	✓	✓	✓				
M5	2,5	✓	✓	✓	✓	✓	✓	✓		
M6	3	✓	✓	✓	✓	✓	✓	✓		
M8	4	✓	✓	✓	✓	✓	✓	✓	✓	
M10	5	✓	✓	✓	✓	✓	✓	✓	✓	✓
M12	6	✓	✓	✓	✓	✓	✓	✓	✓	✓
M14	6		✓	✓	✓	✓	✓	✓	✓	✓
M16	8			✓	✓	✓	✓	✓	✓	✓

Havşa Başlı Civata

10,9 Kalite

Sipariş Şekli : d1 x L

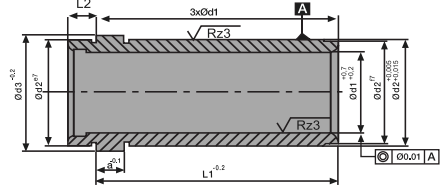


d1	d2	S	L										
			10	15	20	25	30	35	40	50	60		
M3	6	2	✓	✓	✓								
M4	8	2,5	✓	✓	✓	✓	✓						
M5	10	3	✓	✓	✓	✓	✓	✓	✓				
M6	12	4	✓	✓	✓	✓	✓	✓	✓	✓			
M8	16	5	✓	✓	✓	✓	✓	✓	✓	✓	✓		
M10	20	6		✓	✓	✓	✓	✓	✓	✓	✓	✓	
M12	24	8			✓	✓	✓	✓	✓	✓	✓	✓	✓
M16	30	10						✓	✓	✓	✓	✓	✓

Kuyruklu Şapkalı Burç Tespit Burcu (Yerli Tip)

Kuyruklu Şapkalı Burç / KŞB - Yerli Tip

Malzeme : Asil Çelik 1.7131 (16MnCr5)
Sertlik : 62± 2 HRC
Isıl İşlem : Sementasyon
DIN 16716 - C

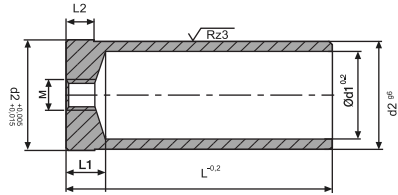


Sipariş Şekli : d1 x L1

d1	d2	d3	a	L2	L1										
					26	36	46	56	66	76	86	96	106	116	
16	24	28	6	10	✓	✓	✓	✓	✓	✓	✓				
20	28	32	6	10	✓	✓	✓	✓	✓	✓	✓	✓			
25	34	38	8	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
30	39	43	10	10		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Tespit Burcu / TB - D 40 - Yerli Tip

Malzeme : Asil Çelik 1.7131 (16MnCr5)
Sertlik : 62± 2 HRC
Isıl İşlem : Sementasyon
DIN 16759



d2	d1	M	L1	L2	L					
					60	80	100	120	140	160
24	16	M8	15	5	✓	✓	✓	✓	✓	
28	20	M8	15	5	✓	✓	✓	✓	✓	
34	25	M10	15	5		✓	✓	✓	✓	✓
39	30	M10	15	5		✓	✓	✓	✓	✓

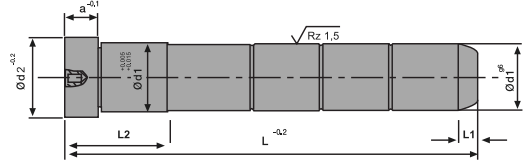
Şapkalı Kolon (Yerli Tip)

Şapkalı Kolon / ŞK - Yerli Tip

Malzeme : Asıl Çelik 1.1213 (Cf 53)

Sertlik : 62± 2 HRC

Isıl İşlem : Islah + indüksiyon



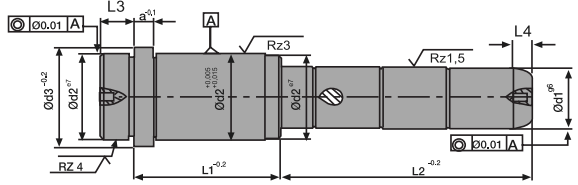
Sipariş Kodu	Ø	L	L1	d2	a
ŞK 1240	12	40	7	16	10
60		60			
80		80			
100		100			
120		120			
140		140			
160		160			
ŞK 1460	14	60	7	18	10
80		80			
100		100			
120		120			
140		140			
160		160			
180		180			
ŞK 1640	16	40	7	20	10
60		60			
80		80			
100		100			
120		120			
140		140			
160		160			
180		180			
200		200			
ŞK 1860	18	60	7	22	10
80		80			
100		100			
120		120			
140		140			
160		160			
180		180			
200		200			
240		240			

Sipariş Kodu	Ø	L	L1	d2	a
ŞK 2060	20	60	7	4	10
80		80			
100		100			
120		120			
140		140			
160		160			
180		180			
200		200			
250		250			
ŞK 2580	25	80	7	29	10
100		100			
120		120			
140		140			
160		160			
180		180			
200		200			
220		220			
250		250			
300		300			
ŞK 30100	30	100	7	34	12
120		120			
140		140			
160		160			
180		180			
200		200			
220		220			
250		250			
300		300			
360		360			

• Özel ölçülü ürünler talep doğrultusunda yapılmaktadır.

Kuyruklu Şapkalı Kademeli Kolon / KŞKK - Yerli Tip

Malzeme : Asil Çelik 1.1213 (Cf53)
Sertlik : 62± 2 HRC
Isıl İşlem : Islah + İndüksiyon



d1	d2	d3	a	L3	L1	L2																
						26	36	46	56	66	76	86	96	106	116	126	136	146				
16	24	28	6	10	26	✓	✓	✓	✓	✓	✓		✓									
					36	✓	✓	✓	✓	✓		✓										
					46	✓	✓	✓	✓	✓	✓		✓		✓							
					56		✓	✓		✓		✓		✓		✓		✓			✓	
					66		✓		✓		✓		✓		✓		✓		✓			
					76			✓		✓		✓		✓		✓		✓		✓		
					86			✓		✓		✓		✓		✓		✓		✓		
20	28	32	6	10	26	✓	✓	✓	✓	✓		✓										
					36	✓	✓	✓	✓	✓		✓		✓		✓						
					46	✓	✓	✓	✓	✓	✓		✓		✓		✓					
					56	✓	✓	✓		✓		✓		✓		✓		✓		✓		
					66		✓		✓		✓		✓		✓		✓		✓		✓	
					76			✓		✓		✓		✓		✓		✓		✓		
					86			✓		✓		✓		✓		✓		✓		✓		
25	34	38	8	10	26				✓	✓	✓											
					36		✓	✓	✓	✓		✓		✓		✓		✓				
					46		✓	✓	✓		✓		✓		✓		✓		✓		✓	
					56		✓	✓		✓		✓		✓		✓		✓		✓		✓
					66		✓		✓		✓		✓		✓		✓		✓		✓	
					76			✓		✓		✓		✓		✓		✓		✓		✓
					86			✓		✓		✓		✓		✓		✓		✓		✓
30	39	43	10	10	36		✓	✓	✓	✓	✓		✓		✓		✓					
					46		✓	✓	✓		✓		✓		✓		✓		✓			
					56		✓	✓		✓		✓		✓		✓		✓		✓		
					66		✓		✓		✓		✓		✓		✓		✓		✓	
					76			✓		✓		✓		✓		✓		✓		✓		✓
					86			✓		✓		✓		✓		✓		✓		✓		✓
					96			✓		✓		✓		✓		✓		✓		✓		✓
106				✓		✓		✓		✓		✓		✓		✓						
116					✓		✓		✓		✓		✓		✓		✓					

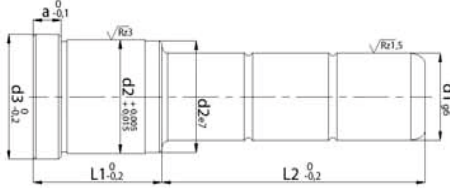
ŞKK D02

Şapkalı Kademeli Kolon

Malzeme : Asil Çelik 1.1213 (Cf 53)

Sertlik : 62± 2 HRC

Isıl İşlem : İndüksiyon



Sipariş Kodu	d1	L1	L2	d2	d3	a
D02_12026026	12	26	26	16	19	4
036			36			
046			46			
056			56			
D02_12036026	12	36	26	16	19	4
036			36			
046			46			
056			56			
D02_12046026	12	46	26	16	19	4
036			36			
046			46			
056			56			
066			66			
D02_14026026	14	26	26	20	25	6
036			36			
046			46			
056			56			
066			66			
076			76			
D02_14036026	14	36	26	20	25	6
036			36			
046			46			
056			56			
066			66			
086			86			
D02_14046026	14	46	26	20	25	6
036			36			
046			46			
056			56			
076			76			
096			96			
D02_14056026	14	56	26	20	25	6
036			36			
046			46			
066			66			
086			86			
106			106			
D02_16026026	16	26	26	24	28	6
036			36			
046			46			
056			56			
076			76			

Sipariş Kodu	d1	L1	L2	d2	d3	a
D02_16026096	16	26	96	24	28	6
D02_16036026	16	36	26	24	28	6
036			36			
046			46			
056			56			
066			66			
086			86			
106			106			
D02_16046026	16	46	26	24	28	6
036			36			
046			46			
056			56			
066			66			
076			76			
096			96			
116			116			
D02_16056026	16	56	26	24	28	6
036			36			
046			46			
056			56			
066			66			
076			76			
096			96			
116			116			
D02_16066026	16	66	26	24	28	6
036			36			
046			46			
056			56			
066			66			
076			76			
086			86			
106			106			
116			116			
D02_16076026	16	76	26	24	28	6
036			36			
046			46			
056			56			
066			66			
076			76			
096			96			
116			116			
D02_16086026	16	86	26	24	28	6

Şapkalı Kademeli Kolon

ŞKK D02

Şapkalı Kademeli Kolon

Malzeme : Asil Çelik 1.1213 (Cf 53)
Sertlik : 62± 2 HRC
İstl İşlem : İndüksiyon



Sipariş Kodu	Ø	L1	L2	d2	d3	a
D02_16086036	16	86	36	24	28	6
046			46			
056			56			
066			66			
076			76			
096			96			
116			116			
D02_18036026	18	26	26	26	31	6
036			36			
046			46			
056			56			
066			66			
086			86			
096			96			
D02_18036026	18	36	26	26	31	6
036			36			
046			46			
056			56			
066			66			
086			86			
106			106			
D02_18046026	18	46	26	26	31	6
036			36			
046			46			
056			56			
066			66			
086			86			
106			106			
126			126			
D02_18056026	18	56	26	26	31	6
036			36			
046			46			
056			56			
066			66			
086			86			
106			106			
126			126			
D02_18066026	18	66	26	26	31	6
036			36			
056			56			
076			76			
096			96			
116			116			
D02_18076026	18	76	26	26	31	6
046			46			
066			66			
086			86			
106			106			
126			126			
D02_18086026	18	86	26	26	31	6
046			46			
066			66			
086			86			
106			106			
126			126			
D02_20026026	20	26	26	28	32	6
036			36			
046			46			
056			56			
066			66			
076			76			
086			86			
106			106			
126			126			

Sipariş Kodu	Ø	L1	L2	d2	d3	a
D02_20036026	20	36	26	28	32	6
036			36			
046			46			
056			56			
066			66			
076			76			
096			96			
D02_20046026	20	46	26	28	32	6
036			36			
046			46			
056			56			
066			66			
076			76			
086			86			
106			106			
D02_20056026	20	56	26	28	32	6
036			36			
046			46			
056			56			
066			66			
076			76			
096			96			
116			116			
D02_20066026	20	66	26	28	32	6
036			36	28	32	6
046			46			
056			56			
066			66			
076			76			
096			96			
116			116			
D02_20076026	20	76	26	28	32	6
036			36			
046			46			
056			56			
066			66			
076			76			
086			86			
106			106			
126			126			
D02_20086026	20	86	26	28	32	6
036			36			
046			46			
056			56			
066			66			
076			76			
086			86			
106			106			
126			126			
D02_20096026	20	96	26	28	32	6
036			36			
046			46			
056			56			
066			66			
076			76			
086			86			
106			106			
126			126			

Şapkalı Kademeli Kolon

ŞKK D02

Kademeli Kolon

Malzeme : Asil Çelik 1.1213 (Cf 53)

Serlik : 62± 2 HRC

İstl İşlem : İndüksiyon



Sipariş Kodu	d1	L1	L2	d2	d3	a
D02_25026026	25	26	26	34	38	8
036			36			
046			46			
056			56			
066			66			
076			76			
096			96			
D02_25036026	25	36	26	34	38	8
036			36			
046			46			
056			56			
066			66			
076			76			
086			86			
106			106			
D02_25046026	25	46	26	34	38	8
036			36			
046			46			
056			56			
066			66			
076			76			
096			96			
116			116			
D02_25056026	25	56	26	34	38	8
036			36			
046			46			
056			56			
066			66			
076			76			
096			96			
116			116			
D02_25066026	25	66	26	34	38	8
036			36			
046			46			
056			56			
066			66			
076			76			
086			86			
106			106			
126			126			
D02_25076026	25	76	26	34	38	8
036			36			
046			46			
056			56			
066			66			
076			76			
086			86			
106			106			
126			126			
D02_25086036	25	86	36	34	38	8
046			46			
056			56			
066			66			
076			76			
086			86			
096			96			
116			116			
136			136			

Sipariş Kodu	d1	L1	L2	d2	d3	a
D02_25096036	25	96	36	34	38	8
046			46			
056			56			
066			66			
076			76			
086			86			
096			96			
116			116			
136			136			
D02_25106046	25	106	46	34	38	8
056			56			
066			66			
076			76			
086			86			
096			96			
116			116			
136			136			
D02_30036036	30	36	36	39	43	10
046			46			
056			56			
066			66			
086			86			
106			106			
D02_30046036	30	46	36	39	43	10
046			46			
056			56			
066			66			
076			76			
096			96			
116			116			
D02_30056036	30	56	36	39	43	10
046			46			
056			56			
066			66			
076			76			
086			86			
106			106			
126			126			
D02_30066036	30	66	36	39	43	10
046			46			
056			56			
066			66			
076			76			
086			86			
096			96			
116			116			
136			136			
D02_30076036	30	76	36	39	43	10
046			46			
056			56			
076			76			
096			96			
116			116			
136			136			
D02_30086036	30	86	36	39	43	10
046			46			
066			66			
086			86			
106			106			
126			126			
146			146			

Şapkalı Kademeli Kolon

ŞKK D02

Kademeli Kolon

Malzeme : Asil Çelik 1.1213 (Cf 53)

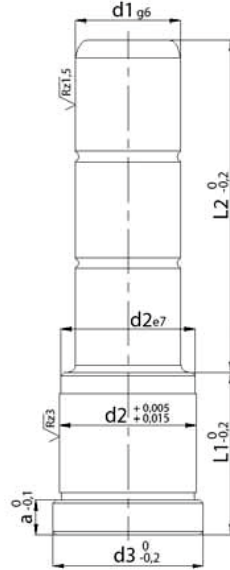
Sertlik : 62± 2 HRC

Isıl İşlem : İndüksiyon



Sipariş Kodu	Ø	L1	L2	d2	d3	a
D02_30096046	30	96	46	39	43	10
066			66			
086			86			
106			106			
126			126			
146			146			
D02_30106056	30	106	56	39	43	10
076			76			
096			96			
116			116			
136			136			
D02_30116056	30	116	56	39	43	10
076			76			
096			96			
116			116			
136			136			
D02_40056056	40	56	56	54	58	10
086			86			
106			106			
126			126			
156			156			
186			186			
D02_40066066	40	66	66	54	58	10
096			96			
116			116			
136			136			
166			166			
196			196			
D02_40076076	40	76	76	54	58	10
106			106			
126			126			
146			146			
166			166			
196			196			
216			216			
D02_40086086	40	86	86	54	58	10
126			126			
146			146			
176			176			
206			206			
226			226			
D02_40096096	40	96	96	54	58	10
136			136			
156			156			
186			186			
216			216			
236			236			
D02_40106106	40	106	106	54	58	10
126			126			
156			156			
186			186			
226			226			
246			246			
D02_40116116	40	116	116	54	58	10
136			136			
166			166			
196			196			
236			236			
256			256			

Sipariş Kodu	Ø	L1	L2	d2	d3	a
D02_40126126	40	126	126	54	58	10
166			166			
196			196			
236			236			
266			266			
D02_40136136	40	136	136	54	58	10
196			196			
226			226			
266			266			



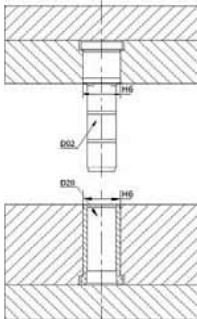
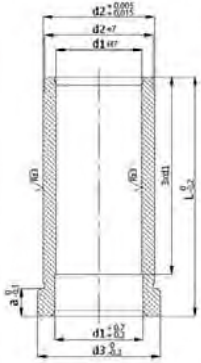
Şapkalı Burç

D20

Burç / Guide Bush

Malzeme : Asil Çelik 1.7131 (16MnCr5)
Sertlik : 62± 2 HRC
Isıl İşlem : Sementasyon

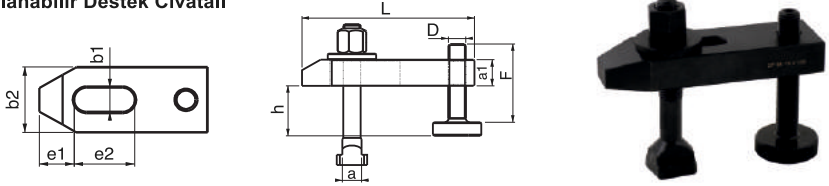
ŞB








Sipariş Kodu	d1	L	d2	d3	a
D20_12026	12	26	16	19	4
036		36			
046		46			
056		56			
066		66			
D20_14026	14	26	20	25	6
036		36			
046		46			
056		56			
066		66			
076		76			
D20_16026	16	26	24	28	6
036		36			
046		46			
056		56			
066		66			
076		76			
086		86			
D20_18026	18	26	26	31	6
036		36			
046		46			
056		56			
066		66			
076		76			
086		86			
D20_20026	20	26	28	32	6
036		36			
046		46			
056		56			
066		66			
076		76			
086		86			
096		96			
D20_25026	25	26	34	38	8
036		36			
046		46			
056		56			
066		66			
076		76			
086		86			
096		96			
106		106			
D20_30036	30	36	39	43	10
046		46			
056		56			
066		66			
076		76			
086		86			
096		96			
106		106			
116		116			
D20_40046	40	46	54	58	10
056		56			
066		66			
076		76			
086		86			
096		96			
106		106			
116		116			
126		126			
136		136			
146		146			

Kalıp ve İş Parçası Bağlama Ekipmanları

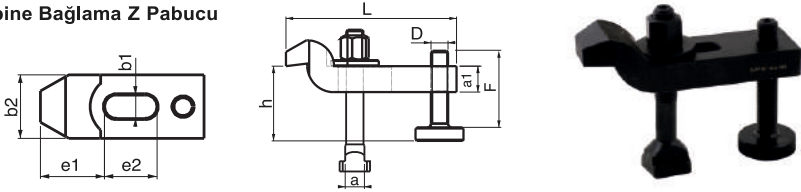
Ayarlanabilir Destek Civatalı








Referans Nr.		L		a1	b2	e1	e2	b1		h		
	a										D x F	(g)
1170-1010080	10	80	15	30	15	30	11	M10x10x80	10-35	M10x42	330	
1170-1212100	12	100	20	40	21	40	14.5	M12x12x100	12-40	M12x50	700	
1170-1212125	12	125	20	40	21	50	14.5	M12x12x160	12-85	M12x95	740	
1170-1214100	14	100	20	40	21	40	14.5	M12x14x100	12-40	M12x50	730	
1170-1214125	14	125	20	40	21	50	14.5	M12x14x160	12-85	M12x95	750	
1170-1616125	16	125	25	50	26	45	18.5	M16x16x125	15-50	M16x62	1400	
1170-1616160	16	160	25	50	26	65	18.5	M16x16x160	15-85	M16x97	1600	
1170-1618125	18	125	25	50	26	45	18.5	M16x18x125	15-50	M16x62	1500	
1170-1618160	18	160	25	50	26	65	18.5	M16x18x160	15,85	M16x97	1600	
1170-2020160	20	160	30	60	30	60	22.5	M20x20x160	15-45	M20x62	2700	
1170-2020200	20	200	30	60	30	80	22.5	M20x20x200	15-80	M20x97	2600	
1170-2022160	22	160	30	60	30	60	22.5	M20x22x160	15-45	M20x62	2800	
1170-2022200	22	200	30	60	30	80	22.5	M20x22x200	15-80	M20x97	2900	
1170-2424160	24	160	30	70	35	60	26.5	M24x24x160	16-60	M24x81	3200	
1170-2424200	24	200	30	70	35	80	26.5	M24x24x200	16-95	M24x116	3650	
1170-2428160	28	160	30	70	35	60	26.5	M24x28x160	16-60	M24x81	4000	
1170-2428200	28	200	30	70	35	80	26.5	M24x28x200	16-95	M24x116	4150	

Ürün Nr. 1170 Ayarlanabilir Destek Civatalı Kombine Bağlama Pabucu

Kombine Bağlama Z Pabucu



Referans Nr.		L		a1	b2	e1	e2	b1		h		
	a										D x F	(g)
1190-1010100	10	100	15	30	32	32	11	M10x10x80	26-50	M10x42	350	
1190-1212125	12	125	20	40	40	40	14.5	M12x12x100	33-60	M12x50	700	
1190-1214125	14	125	20	40	40	40	14.5	M12x14x100	37-60	M12x50	750	
1190-1616160	16	160	25	50	49	50	18.5	M16x16x125	41-75	M16x62	1300	
1190-1618160	18	160	25	50	49	50	18.5	M16x18x125	41-75	M16x62	1500	
1190-2020200	20	200	30	60	55	70	22.5	M20x20x160	46-75	M20x62	2500	
1190-2022200	22	200	30	60	55	70	22.5	M20x22x160	46-75	M20x62	2700	
1190-2424200	24	200	35	70	72	60	26	M24x24x200	52-95	M24x81	3800	
1190-2428200	28	200	35	70	72	60	26	M24x28x200	52-95	M24x81	4000	

Ürün Nr 1190 Ayarlanabilir Destek Civatalı Kombine Bağlama "Z" Pabucu

Kalıp ve İş Parçası Bağlama Ekipmanları

Somunlu Pullu "T" Ayaklı Saplama

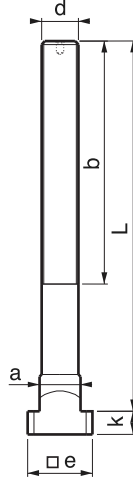
Referans Nr.	dx	x L	b	a	e	k	
1610-1010040	x40	30					65
1610-1010063	x63	45					80
1610-1010080	x80	50	9.7	15	6		90
1610-1010100	x100	60					110
1610-1012050	x50	35					100
1610-1012063	x63	40					120
1610-1012080	x80	55					130
1610-1012100	x100	60	11.7	18	7		150
1610-1012125	x125	75					175
1610-1012160	x160	90					225
1610-1012200	x200	120					270
1610-1212050	x50	35					120
1610-1212063	x63	40					128
1610-1212080	x80	55					130
1610-1212100	x100	65	11.7	18	7		145
1610-1212125	x125	75					170
1610-1212160	x160	100					195
1610-1212200	x200	120					220
1610-1214050	x50	35					130
1610-1214063	x63	45					145
1610-1214080	x80	55					155
1610-1214100	x100	65	13.7	22	8		165
1610-1214125	x125	75					180
1610-1214160	x160	100					210
1610-1214200	x200	120					240
1610-1416063	x63	45					200
1610-1416080	x80	55					220
1610-1416100	x100	65					230
1610-1416125	x125	75	15.7	25	9		280
1610-1416160	x160	100					310
1610-1416200	x200	120					350
1610-1416250	x250	150					400
1610-1616063	x63	45					250
1610-1616080	x80	55					275
1610-1616100	x100	65					290
1610-1616125	x125	85	15.7	25	9		300
1610-1616160	x160	100					420
1610-1616200	x200	125					435
1610-1616250	x250	150					530
1610-1618063	x63	45					260
1610-1618080	x80	55					305
1610-1618100	x100	65					315
1610-1618125	x125	85	17.7	28	10		360
1610-1618160	x160	100					390
1610-1618200	x200	125					448
1610-1618250	x250	150					560
1610-1820080	x80	55					420
1610-1820100	x100	65					460
1610-1820125	x125	85					490
1610-1820160	x160	110	19.7	32	12		580
1610-1820200	x200	125					610
1610-1820250	x250	150					700
1610-1820315	x315	190					930
1610-2020080	x80	55					520
1610-2020100	x100	65					560
1610-2020125	x125	85					570
1610-2020160	x160	110	19.7	32	12		680
1610-2020200	x200	125					710
1610-2020250	x250	160					800
1610-2020315	x315	190					1030
1610-2022080	x80	55					530
1610-2022100	x100	65					610
1610-2022125	x125	85					670
1610-2022160	x160	110	21.7	35	14		710
1610-2022200	x200	125					720
1610-2022250	x250	150					890
1610-2022315	x315	190					1050
1610-2224080	x80	55					900
1610-2224100	x100	65					960
1610-2224125	x125	85					1020
1610-2224160	x160	110	23.7	40	16		1250
1610-2224200	x200	125					1400
1610-2224250	x250	150					1600
1610-2224315	x315	190					1700

Referans Nr.	dx	x L	b	a	e	k	
1610-2424100	x100	70					910
1610-2424125	x125	85					970
1610-2424160	x160	110					1040
1610-2424200	x200	125	23.7	40	16		1265
1610-2424250	x250	150					1410
1610-2424315	x315	190					1640
1610-2424400	x400	240					1780
1610-2428100	x100	70					980
1610-2428125	x125	85					1010
1610-2428160	x160	110					1150
1610-2428200	x200	125	27.7	44	18		1240
1610-2428250	x250	150					1500
1610-2428315	x315	190					1730
1610-2428400	x400	240					1860
1610-2428500	x500	290					2310
1610-3036125	x125	80					1860
1610-3036160	x160	110					1950
1610-3036200	x200	135	35.6	54	22		2230
1610-3036250	x250	150					2550
1610-3036315	x315	200					2950
1610-3036500	x500	300					3950
1610-3642100	x160	100					3220
1610-3642250	x250	175	41.6	65	26		3840
1610-3642400	x400	250					4950
1610-3642600	x600	340					6500
1610-4248160	x160	100					6000
1610-4248250	x250	175	47.6	75	30		6900
1610-4248400	x400	250					8100

DIN 787



Ürün Nr. 1610 Somunlu Pullu "T" Ayaklı Saplama

- Malzeme 42 CrMo 4 DIN
- Kalite 10.9
- Siyah kaplama



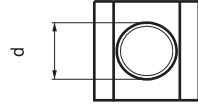
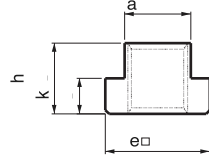
Not: 200°C üzerindeki ısıya mukavim ortamdaki çalışmalarda firmamız ile iletişime geçiniz.



Kalıp ve İş Parçası Bağlama Ekipmanları

Referans Nr.	dx 	a	e	h	k	
1750-0608	M6x8	7.7	13	10	6	9
1750-0810	M8x10	9.7	15	12	6	12
1750-0812	M8x12	11.7	18	14	7	22
1750-1012	M10x12					20
1750-0814	M8x14	13.7	22	16	8	40
1750-1014	M10x14					37
1750-1214	M12x14					35
1750-0816	M8x16	15.7	25	18	9	60
1750-1016	M10x16					50
1750-1216	M12x16					50
1750-1416	M14x16					45
1750-0818	M8x18	17.7	28	20	10	90
1750-1018	M10x18					87
1750-1218	M12x18					80
1750-1418	M14x18					75
1750-1618	M16x18					65
1750-1620	M16x20	19.7	32	24	12	110
1750-1820	M18x20					105
1750-1622	M16x22	21.7	35	28	14	175
1750-1822	M18x22					160
1750-2022	M20x22					155
1750-1624	M16x24	23.7	40	32	16	260
1750-2024	M20x24					230
1750-2224	M22x24					220
1750-1628	M16x28	27.7	44	36	18	380
1750-2028	M20x28					350
1750-2228	M22x28					340
1750-2428	M24x28					320
1750-2436	M24x36	35.6	54	44	22	700
1750-3036	M30x36					600

DIN 508 Ürün Nr. 1750 "T" Pabuç

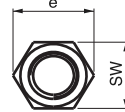
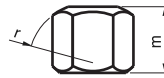
"T" Pabuç





Referans Nr.		sw	e	m	r	
1790-06	M6	10	11.5	9	9	5
1790-08	M8	13	15	12	12	9
1790-10	M10	17	19.6	15	15	14
1790-12	M12	19	21.9	18	17	20
1790-14	M14	22	25.4	21	20	45
1790-16	M16	24	27.7	24	22	60
1790-18	M18	27	31.2	27	24	85
1790-20	M20	30	34.6	30	27	110
1790-22	M22	32	36.9	33	30	130
1790-24	M24	36	41.5	36	32	200
1790-30	M30	46	53.1	45	41	400
1790-36	M36	55	63.5	54	50	720

DIN 6330B Ürün Nr. 1790 Takviyeli Somun

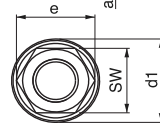
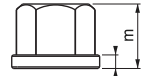
Takviyeli Somun





Referans Nr.		sw	e	m	a	d1	
1810-08	M8	13	15	12	3.5	18	12
1810-10	M10	17	19.7	15	4	22	25
1810-12	M12	19	21.9	18	4	25	35
1810-14	M14	22	25.4	21	4.5	28	50
1810-16	M16	24	27.7	24	5	31	70
1810-18	M18	27	31.2	27	5	34	95
1810-20	M20	30	34.6	30	6	37	130
1810-22	M22	32	36.9	33	6	40	160
1810-24	M24	36	41.5	36	6	45	230
1810-30	M30	46	53.1	45	8	58	470
1810-36	M36	55	63.0	54	10	68	800

DIN 6331 Ürün Nr. 1810 Pullu Somun

Pullu Somun

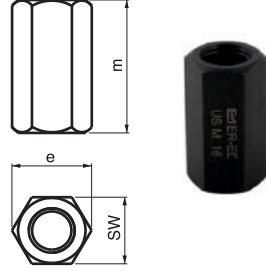




Kalıp ve İş Parçası Bağlama Ekipmanları

Referans Nr.		sw	e	m	
1830-06	M6	10	11.7	18	8
1830-08	M8	13	15	24	19
1830-10	M10	17	19.6	30	45
1830-12	M12	19	21.6	36	65
1830-14	M14	22	25.4	42	95
1830-16	M16	24	27.7	48	120
1830-18	M18	27	31.2	54	170
1830-20	M20	30	34.6	60	250
1830-22	M22	32	36.9	66	280
1830-24	M24	36	41.5	72	400
1830-30	M30	46	53.1	90	850
1830-36	M36	55	63.5	108	1470

Ürün Nr. 1830 Uzatma Somun

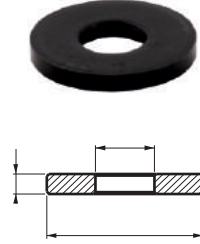
Uzatma Somun





Referans Nr.			d1	d2	s	
	metrik	whitworth				
1870-06	M6	1/4	6.4	17	3	6
1870-08	M8	5/16	8.4	23	4	10
1870-10	M10	3/8	10.5	28	4	16
1870-12	M12	1/2	13	35	5	35
1870-14	M14	-	15	40	5	40
1870-16	M16	5/8	17	45	6	60
1870-18	M18	-	19	45	6	60
1870-20	M20	3/4	21	50	6	75
1870-22	M22	7/8	23	50	8	95
1870-24	M24	7/8	25	60	8	170
1870-30	M30	1 1/8	31	68	10	230
1870-36	M36	1 1/4	38	80	12	350

DIN 6340 Ürün Nr. 1870 Pul

Pul



Referans Nr.		
1950-1214	12-14	40
1950-1618	16-18	50
1950-2022	20-22	55
1950-2428	24-28	80



Ürün Nr. 1950 "T" Kanal temizleyici



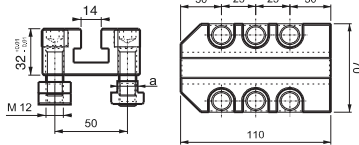
"T" Kanal Temizleyici



Modüler "T" Blok

Referans Nr.		
1960-110	14-16-18-20	1200

Ürün Nr. 1960 Modüler "T" Blok



Merdiven Yükselticili Bağlama Set

Referans Nr.	dx			d x L	DIN 6379
2010-1012	M10X12	330X255	6000	M10X80-100-160-200	
2010-1214	M12X14	380X255	8000	M10X80-100-160-200	
2010-1416	M14X16	435X255	13500	M14X80-100-160-200	
2010-1618	M16x18	435X255	15000	M16x80-100-160-200	
2010-1820	M18X20	495X255	16500	M18X80-100-160-200	



Ürün Nr. 2010 Merdiven Yükselticili Bağlama Set

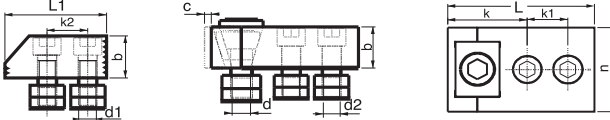
Vidalı Yükselticili Bağlama Set

Referans Nr.	dx			d x L	DIN 6379
1990-1012	M10x12	265x255	6000	M10x80-100-160-200	
1990-1214	M12x14	305x255	8000	M12x80-100-160-200	
1990-1416	M14x16	435-255	13500	M14x80-100-160-200	
1990-1618	M16x18	435-255	15000	M16x80-100-160-200	
1990-1820	M18x20	495x255	16500	M18x80-100-160-200	
1990-2022	M20x22	540x255	18500	M20x100-125-160-200	



Ürün Nr. 1990 Vidalı Yükselticili Bağlama Set

Dereceli Yandan Sıkma Set

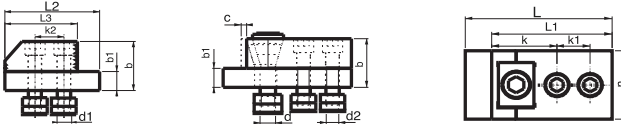


Referans Nr.		c	L	b	n	k	k1	k2	L1	d	d1	d2	sıkma kuvveti clamping force kgf	
2030-14	14	5	90	23	47	47	26	26	65	M12	M12	M12	2000	3600
2030-16	16													
2030-18	18													
2030-20	20													
2030-22	22													
2030-24	24	5	95	28	57	52	26	26	65	M14	M12	M12	2500	4200
2030-24	24													
2030-28	28													



Ürün Nr. 2030 Dereceli Yandan Sıkma Set

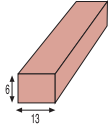
Dereceli Yandan Sıkma (Paralelli) Set



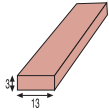
Referans Nr.		c	L	L1	L2	L3	b1 ±0.01	n	k	k1	k2	d	d1	d2	sıkma kuvveti clamping force kgf		
2050-14	14	5	110	90	85	65	41	18	47	47	26	26	M12	M12	M12	2000	7000
2050-16	16																
2050-18	18																
2050-20	20																
2050-22	22																
2050-24	24	5	115	95	85	65	46	18	57	52	26	26	M14	M12	M12	2500	8800
2050-24	24																
2050-28	28																



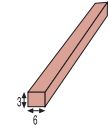
Ürün Nr. 2050 Dereceli Yandan Sıkma (Paralelli) Set



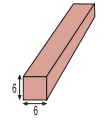
VH Serisi	
ÖLÇÜ	KUM
6x13x150	120 KUM
6x13x150	220 KUM
6x13x150	320 KUM
6x13x150	400 KUM
6x13x150	600 KUM
6x13x150	800 KUM
6x13x150	1000 KUM
6x13x150	1200 KUM
6x13x150	2000 KUM
6x13x150	3000 KUM



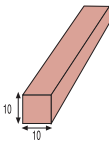
ÖLÇÜ	KUM
3x13x150	120 KUM
3x13x150	220 KUM
3x13x150	320 KUM
3x13x150	400 KUM
3x13x150	600 KUM
3x13x150	800 KUM
3x13x150	1000 KUM



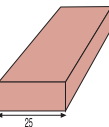
ÖLÇÜ	KUM
3x6x150	120 KUM
3x6x150	220 KUM
3x6x150	320 KUM
3x6x150	400 KUM
3x6x150	600 KUM
3x6x150	800 KUM
3x6x150	1000 KUM



ÖLÇÜ	KUM
6x6x150	120 KUM
6x6x150	220 KUM
6x6x150	320 KUM
6x6x150	400 KUM
6x6x150	600 KUM



ÖLÇÜ	KUM
10x10x150	120 KUM
10x10x150	220 KUM
10x10x150	320 KUM
10x10x150	400 KUM
10x10x150	600 KUM



ÖLÇÜ	KUM
6x25x150	120 KUM
6x25x150	220 KUM
6x25x150	320 KUM
6x25x150	400 KUM
6x25x150	600 KUM

MF Serisi	
ÖLÇÜ	KUM
6x13x150	120 KUM
6x13x150	220 KUM
6x13x150	320 KUM
6x13x150	400 KUM
6x13x150	600 KUM
6x13x150	800 KUM
6x13x150	1000 KUM
6x13x150	1200 KUM
6x13x150	2000 KUM
6x13x150	3000 KUM

ÖLÇÜ	KUM
3x13x150	120 KUM
3x13x150	220 KUM
3x13x150	320 KUM
3x13x150	400 KUM
3x13x150	600 KUM
3x13x150	800 KUM
3x13x150	1000 KUM

ÖLÇÜ	KUM
3x6x150	120 KUM
3x6x150	220 KUM
3x6x150	320 KUM
3x6x150	400 KUM
3x6x150	600 KUM
3x6x150	800 KUM
3x6x150	1000 KUM

ÖLÇÜ	KUM
6x6x150	120 KUM
6x6x150	220 KUM
6x6x150	320 KUM
6x6x150	400 KUM
6x6x150	600 KUM

ÖLÇÜ	KUM
10x10x150	120 KUM
10x10x150	220 KUM
10x10x150	320 KUM
10x10x150	400 KUM
10x10x150	600 KUM

ÖLÇÜ	KUM
6x25x150	120 KUM
6x25x150	220 KUM
6x25x150	320 KUM
6x25x150	400 KUM
6x25x150	600 KUM

MS Serisi	
ÖLÇÜ	KUM
6x13x150	120 KUM
6x13x150	220 KUM
6x13x150	320 KUM
6x13x150	400 KUM
6x13x150	600 KUM
6x13x150	800 KUM
6x13x150	1000 KUM
6x13x150	1200 KUM
6x13x150	2000 KUM
6x13x150	3000 KUM

ÖLÇÜ	KUM
3x13x150	120 KUM
3x13x150	220 KUM
3x13x150	320 KUM
3x13x150	400 KUM
3x13x150	600 KUM
3x13x150	800 KUM
3x13x150	1000 KUM

ÖLÇÜ	KUM
3x6x150	120 KUM
3x6x150	220 KUM
3x6x150	320 KUM
3x6x150	400 KUM
3x6x150	600 KUM
3x6x150	800 KUM
3x6x150	1000 KUM

ÖLÇÜ	KUM
6x6x150	120 KUM
6x6x150	220 KUM
6x6x150	320 KUM
6x6x150	400 KUM
6x6x150	600 KUM

ÖLÇÜ	KUM
10x10x150	120 KUM
10x10x150	220 KUM
10x10x150	320 KUM
10x10x150	400 KUM
10x10x150	600 KUM

ÖLÇÜ	KUM
6x25x150	120 KUM
6x25x150	220 KUM
6x25x150	320 KUM
6x25x150	400 KUM
6x25x150	600 KUM



VH SERİSİ: Beyaz alüminyum oksit (WA) dış etkilere karşı mukavim ve erazyon işlemi sonrası iyi netice verir özellikle kenar köşe ve derin kanallarda, finişlerde kullanılması tavsiye edilir. İçinde karbon olduğundan kırılmaya karşı dayanıklıdır. Tüm çeliklerde kullanıma uygundur.

MF SERİSİ: Beyaz alüminyum oksit (WA) metodu ile elde edilmiş yumuşak bir taştır. Isıl işlem görmemiş tüm yüzey ve çeliklerde finiş öncesi kullanılması tavsiye edilir.

MS SERİSİ: Vitrikiye metotla elde edilen alümine aşındırıcı taştır. Yüksek kesme özelliği nedeniyle kaba ve finiş yüzey işleminde çok iyi netice verir. Genellikle ısıtma işlemi görmüş yüzeylerde erazyon kumu kaldırma amacıyla kullanılması tavsiye edilir.

Saplı Mob Zımparalar - Parlatma Lastikleri

Karbosan

**Şerit Bez
Zımpara
Sert - Yumuşak**

SAPLI MOP ZIMPARALAR



Ç	x En x Mil (mm)
2	x 15 x
2	x 2 x
2	x 25 x
25	x 15 x
25	x 2 x
25	x 3 x
3	x 1 x
3	x 15 x
3	x 2 x

Ç	x En x Mil (mm)
x	1 x
x	15 x
x	2 x
x	3 x
5	x 1 x
5	x 15 x
5	x 2 x
5	x 3 x
x	15 x

Ç	x En x Mil (mm)
x	2 x
x	3 x
x	x
x	x
x	15 x
x	2 x
x	3 x
x	x

Ebat	Kum								
	60	80	100	120	180	220	320	400	600
100									
120									
130									
150	✓	✓	✓	✓	✓	✓	✓	✓	✓
200									
250									

SPIRAL ZIMPARALAR



Su Zımparası



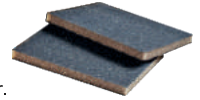
Mevcut Kum Kalınlıkları

60 - 80 - 100 - 120 - 150 - 180 - 220 - 240
280 - 320 - 360 - 400 - 500 - 600 - 800 - 1000
1200 - 1500 - 2000

MİNİ MOP LASTİKLER (Shaft 3 mm)

Ü ÜN	Ç	KUM
S İ L NT ZİM	mm x mm	12 -22 -32 - - KUM
S İ L NT ZİM	5 mm x 1 mm	12 -22 -32 - - KUM
S İ L NT ZİM	mm x 12 mm	12 -22 -32 - - KUM
S İ L NT ZİM	mm x 15 mm	12 -22 -32 - - KUM
S İ L NT ZİM	1 mm x 2 mm	12 -22 -32 - - KUM
S İ L NT ZİM	12 mm x 2 mm	12 -22 -32 - - KUM

Sünger Zımpara



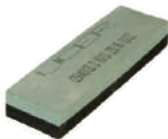
• Metal, ağaç, sert plastik gibi malzemelerin el ile zımparalanmasında kullanılır.

Mevcut Kum Kalınlıkları

60 - 80 - 100 - 120 - 150 - 180 - 220 - 240
280 - 320 - 360 - 400

ÜNİVERSAL MOP LASTİKLER (Shaft 6 mm)

Ü ÜN	Ç	KUM
S İ NT	1 mm x 2 mm	12 -22 -32 - - KUM
S İ NT	13 mm x 25 mm	12 -22 -32 - - KUM
S İ NT	15 mm x 25 mm	12 -22 -32 - - KUM
S İ NT	2 mm x 3 mm	12 -22 -32 - - KUM
S İ NT	25 mm x 3 mm	12 -22 -32 - - KUM
S İ NT	3 mm x 3 mm	12 -22 -32 - - KUM



SC / SCG
Kombine Yağ Taşı

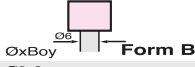
100 x 25 x 16
125 x 40 x 20
150 x 50 x 25
200 x 50 x 25



EKR / EKDR
Kombine Yağ Taşı

100 x 25 x 16
125 x 40 x 20
150 x 50 x 25
200 x 50 x 25

Saplı Parlatma Taşları



Form B

ØxBoy

Ø3x8
Ø4x8
Ø5 x 10
Ø6 x 12
Ø6 x 16
Ø8 x 16
Ø10x10
Ø10x15
Ø10x20
Ø10x25
Ø12x12
Ø12x20
Ø12x30
Ø16x16
Ø16x20
Ø16x30
Ø16x40
Ø20x20
Ø20x30
Ø20x40
Ø25x25
Ø25x32
Ø25x40
Ø30x30
Ø30x40
Ø30x50
Ø40x40



Form E

ØxBoy

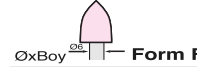
Ø5x5
Ø5x10
Ø8x16
Ø8x20
Ø10x30
Ø12x25
Ø12x30
Ø12x40
Ø16x16
Ø16x32
Ø16x40
Ø20x20
Ø20x30
Ø20x40
Ø25x25
Ø25x32
Ø25x40
Ø32x32
Ø32x40
Ø32x50



Form L

ØxBoy

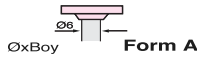
Ø25x13x100
Ø40x20x125
Ø50x25x200
Ø50x25x200
Ø25x20x100



Form F

ØxBoy

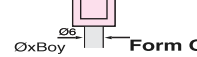
Ø8x16
Ø13x20
Ø20x32
Ø20x40



Form A

ØxBoy

Ø12x4
Ø16x4
Ø16x10
Ø20x4
Ø20x8
Ø20x16
Ø25x4
Ø25x8
Ø25x10
Ø25x20
Ø30x4
Ø30x8
Ø30x16
Ø30x20
Ø40x10
Ø40x16
Ø40x20
Ø50x10
Ø50x20
Ø60x16
Ø60x20



Form G

ØxBoy

Ø20x16
Ø12x10
Ø25x20
Ø15x12
Ø32x25
Ø20x15
Ø40x32
Ø24x20



Form C

ØxBoy

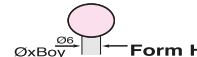
Ø25x8
Ø32x8
Ø40x10
Ø50x12



Form D

ØxBoy

Ø6x20
Ø110x25
Ø12x20
Ø16x25
Ø20x35



Form H

ØxBoy

Ø8
Ø10
Ø12
Ø15
Ø20
Ø25
Ø30
Ø32

Silindir Model Parlatma Taşları Ø 6.35 x25 (mm)



Değersiz alaşımlar ve değerli metal dökümlerinin düzeltilmesi için.



Altın ve değersiz metal yüzeylerinin matlaştırılması için.



Altın ve değersiz metal yüzeylerinin yüksek parlaklıkta parlatılması için.

Daire Model Parlatma Taşları

Ø 22 x3.00 (mm)



Değersiz alaşımlar ve değerli metal dökümlerinin düzeltilmesi için.



Altın ve değersiz metal yüzeylerinin matlaştırılması için.



Altın ve değersiz metal yüzeylerinin yüksek parlaklıkta parlatılması için.

Saplı Krateks Parlatma Lastiği Ø 6.35 x25 (mm)



Değersiz alaşımlar ve değerli metal dökümlerinin düzeltilmesi için.



Altın ve değersiz metal yüzeylerinin matlaştırılması için.



Altın ve değersiz metal yüzeylerinin yüksek parlaklıkta parlatılması için.

Separe Kesme Taşı



Ø 20 x0.70 (mm)



Ø 40 x1.00 (mm)

ATH Kodu	Açıklama
760	2,35 mm dişli somunlu bağlama aparatı / kısa
763	3 mm dişli somunlu bağlama aparatı / kalın dişli
765	2,35 mm kademesiz ince kafalı bağlama aparatı
766	3 mm düz bağlama aparatı
769	3 mm dişli kademesiz bağlama aparatı
770	6 mm bağlama aparatı
771	6 mm pullu bağlama aparatı / kısa



PF 05 Elmas Eęe Seti



PF Serisi Tekli Elmas Eęeler

Kod	Form	Boy (mm)	Elmas boyu (mm)	Kalınlık (mm)	Geniřlik (mm)	Kum
PFL-101	▭	140	50	1,5	6	120
PFL-102	▭	140	50	2	5	120
PFL-103	○	140	50	3	∅	120
PFL-104	▭	140	50	2,5	2,5	120
PFL-105	▭	140	50	3,5	3,5	120
PF 05	PVC AMBALAJLI 5'Lİ TAKIM					

PF 10L Elmas Eęe Seti



PF Serisi Tekli Elmas Eęeler

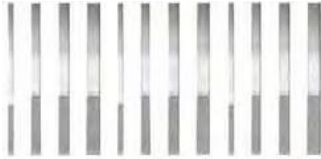
Kod	Form	Boy (mm)	Elmas boyu (mm)	Kalınlık (mm)	Geniřlik (mm)	Kum
PF-101	▭	140	50	1,5	6	120
PF-102	▭	140	50	2	5	120
PF-103	○	140	50	3	∅	120
PF-104	▭	140	50	2,5	2,5	120
PF-105	▭	140	50	3,5	3,5	120
PF-106	▭	140	50	1,5	5,4	120
PF-107	▭	140	50	6	1,7	120
PF-108	▭	140	50	2	6	120
PF-109	▭	140	50	2	5	120
PF-110	▭	140	50	1,5	6	120
PF 10L	PVC AMBALAJLI 10'LU TAKIM					

PFL 10 Elmas Eęe Seti



Kod	Form	Boy (mm)	Elmas boyu (mm)	Kalınlık (mm)	Geniřlik (mm)	Kum
PFL-101	▭	180	50	1,5	5,5	200
PFL-102	▭	180	50	2	5	200
PFL-103	○	180	50	3	∅	200
PFL-104	▭	180	50	2,5	2,5	200
PFL-105	▭	180	50	3,5	3,5	200
PFL-106	▭	180	50	1	5,5	200
PFL-107	▭	180	50	0,5	5,5	200
PFL-108	▭	180	50	0,8	5,5	200
PFL- 03	○	180	50	2	∅	200
PFL- 01	▭	180	50	1,5	5,5	200
PFL 10	AĖSAP KUTULU 10'LU TAKIM					

CF 40 Elmas Eęe Seti



CF Serisi Tekli Elmas Eęeler

Kod	Form (mm)	Boy (mm)	Elmas Boyu (mm)	Kum
CF-402J	▭	180	40	150
CF-402F	▭			200
CF-402V	▭	180	50	400
CF-404J	▭			150
CF-404F	▭			200
CF-404V	▭	180	50	400
CF-406J	▭			150
CF-406F	▭			200
CF-406V	▭	180	50	400
CF-408J	▭			150
CF-408F	▭			200
CF-408V	▭	180	50	400
CF-408V	▭			400
CF 50	PVC AMBALAJLI 12'Lİ TAKIM			

CF 50 Elmas Eęe Seti



Kod	Form	Boy (mm)	Elmas boyu (mm)	Kalınlık (mm)	Geniřlik (mm)	Kum
CF 501	▭	180	70	0,9 - 2,8	10	200
CF 502	▭	180	60	0,4 - 2,5	8	200
CF 503	▭	180	60	0,4 - 2,5	6	200
CF 504	▭	180	50	0,4 - 2,0	4	200
CF 505	▭	180	50	0,6 - 2,2	1,2 - 4	200
CF 50	AĖSAP KUTULU 5'Lİ TAKIM					

Tesviyeci ve Saatçi Eğeleri



Form	Ebat	A	B	C
Lama (Hand)	4	100	12	3
	6	150	16	4
	8	200	20	5
	10	250	25	5,5
	12	300	30	6

Form	Ebat	A	B	C
Yarım Yuvarlak	4	-	-	-
	6	150	16,0	4,7
	8	200	20,5	6
	10	250	26,5	7,5
	12	300	31,0	9



Form	Ebat	A	B	C
Yuvarlak	4	-	-	-
	6	150	6	-
	8	200	8	-
	10	250	10	-
	12	300	12	-

Form	Ebat	A	B	C
Üç Köşe	4	-	-	-
	6	150	11,0	-
	8	200	15,5	-
	10	250	17,5	-
	12	300	19,5	-



Form	Ebat	A	B	C
Kare	4	-	-	-
	6	150	6	-
	8	200	8	-
	10	250	10	-
	12	300	12	-

Form	Ebat	A	B	C
Mil Eğesi (iki kenarlı düz)	4	-	-	-
	6	150	16	2,7
	8	200	20	3,3
	10	250	25	4,0
	12	300	30	5,0

SAATÇİ EĞELER

EĞE SAPLARI



Lama



Y.Yuv.



Yuvarlak



Oval



Üç köşe



Kare



Bıçak



4" - 6" - 8" - 10" - 12"



Karbosan

NK Taşlama Taşları A24 RS BF80



• Genel amaçlı demir çelik ve metallerin taşlanması için kullanılır.

Ebat
100 x 6,4 x 16
115 x 6,4 x 22
125 x 6,4 x 22
180 x 6,4 x 22
180 x 8,0 x 22
180 x 10 x 22
230 x 6,4 x 22
230 x 8,0 x 22
230 x 10 x 22

Metal Kesme Taşları A36 T BF80



• Metal ve döküm malzemelerin kesme işlemine uygundur.

Ebat
100x2,5x16
115x2,5x22
125x2,5x22
180x3,0x22
230x3,0x22

Inox Kesme Taşı AA24 S BF80



• Çelik ve inox malzemelerin kesme işlemine uygundur.

THINLINE	Ebat
115 x 1,0 x 22	
115 x 1,2 x 22	
115 x 1,6 x 22	
125 x 1,0 x 22	
125 x 1,6 x 22	
180 x 1,9 x 22	
230 x 1,9 x 22	

Fiber Disk Zımpara



Ebat	Kum
115x22	36-40-60
180x22	36-40-60



Flap Disk (Zımpara)

Ebat	Kum			
	40	60	80	120
100 x 16	✓	✓	✓	✓
115 x 22	✓	✓	✓	✓
125 x 22	✓	✓	✓	✓
180 x 22	✓	✓	✓	✓

Diamon Disk Taş



Ebat
75 x 3 x 6
100 x 4 x 8
125 x 4 x 8
150 x 4 x 8

NK Ara Taşı



Ebat
150 x 2,0 x 20
175 x 2,0 x 20
190 x 2,0 x 28

Diamond Çanak Taş



Ebat	Yoğunluk	Çap	Delik Çapı
2x5	C75-100	100	20
3x5	C75-100	100	20
2x6	C75-100	100	20
3x6	C75-100	100	20
2x8	C75-100	100	20
3x8	C75-100	100	20

Aşındırıcı Taşlar

NK Taşlama Taşları



• Genel amaçlı zımpara taşları yüzey taşlama silindirik taşlama ve takımhanelerin bileme işlerinde kullanılır.



Ebat	Kum			
	24	36	46	60
75 x 13 x 10		✓	✓	✓
100 x 13 x 10		✓	✓	✓
100 x 16 x 20		✓	✓	✓
125 x 16 x 16		✓	✓	✓
125 x 20 x 20	✓	✓	✓	✓
150 x 20 x 20	✓	✓	✓	✓
150 x 25 x 20	✓	✓	✓	✓
175 x 20 x 20	✓	✓	✓	✓
175 x 25 x 20	✓	✓	✓	✓
200 x 20 x 20	✓	✓	✓	✓
200 x 25 x 20	✓	✓	✓	✓
200 x 30 x 20	✓	✓	✓	✓
200 x 32 x 20	✓	✓	✓	✓
250 x 25 x 25	✓	✓	✓	✓
250 x 30 x 25	✓	✓	✓	✓
250 x 32 x 25	✓	✓	✓	✓
250 x 40 x 25	✓	✓	✓	✓
300 x 30 x 30	✓	✓	✓	✓
300 x 32 x 30	✓	✓	✓	✓
300 x 40 x 30	✓	✓	✓	✓
350 x 40 x 40	✓	✓	✓	✓
400 x 40 x 40	✓	✓	✓	✓

SCG Elmas Bileme Taşları



• Karbür ve karbür plakalı aletlerde kullanım için uygundur



Ebat	Kum
	80
125 x 20 x 20	✓
150 x 20 x 20	✓
150 x 25 x 20	✓
175 x 20 x 20	✓
175 x 25 x 20	✓
200 x 20 x 20	✓
200 x 25 x 20	✓
200 x 32 x 20	✓
250 x 25 x 25	✓
250 x 32 x 25	✓
300 x 32 x 30	✓

EKR Çelik Taşları



• Yüzey taşlama tezgahlarında kullanıma uygundur.



Ebat	Kum		
	36	46	60
150 x 20 x 20	✓	✓	✓
175 x 20 x 20	✓	✓	✓
200 x 20 x 20	✓	✓	✓
250 x 25 x 76,2	✓	✓	✓
250 x 30 x 76,2	✓	✓	✓
250 x 32 x 76,2	✓	✓	✓
250 x 40 x 76,2	✓	✓	✓
300 x 40 x 76,2	✓	✓	✓
300 x 40 x 127	✓	✓	✓
350 x 40 x 127	✓	✓	✓
350 x 50 x 127	✓	✓	✓
400 x 40 x 127	✓	✓	✓

Çanak Taşlar



Ebat	Form
D 50	EKR 60 DÜZ
D 75	EKR 60 DÜZ
D 100	EKR 60 DÜZ
D 125	EKR 60 DÜZ
D150	EKR 60 DÜZ



Ebat	Form
E 50	EKR 60 KONİK
E 75	EKR 60 KONİK
E 100	EKR 60 KONİK
E 125	EKR 60 KONİK
E 150	EKR 60 KONİK

Taş Düzeltilme Elmasları



KOD	AÇIKLAMA
DS 015 - BEST	Taş Düzeltilme Elması 0,50 Karat
DS 025 - BEST	Taş Düzeltilme Elması 1,00 Karat
0,50 - ÇİN	Taş Düzeltilme Elması 0,50 Karat
0,75 - ÇİN	Taş Düzeltilme Elması 0,75 Karat
1,00 - ÇİN	Taş Düzeltilme Elması 1,00 Karat
1,50 - ÇİN	Taş Düzeltilme Elması 1,50 Karat
2,00 - ÇİN	Taş Düzeltilme Elması 2,00 Karat



Dijital
Kumpas

Kod	Ölçüm Aralığı
1112-150	0-150mm/0-6"
1112-200	0-200mm/0-8"
1112-300	0-300mm/0-12"



Suya ve Toza
Karşı Korumalı

Dijital
Kumpas
IP 67 Korumalı

Kod	Ölçüm Aralığı
1118-150	0-150mm/0-6"
1118-200	0-200mm/0-8"
1118-300	0-300mm/0-12"



Dijital
Kumpas

Kod	Ölçüm Aralığı
1111-75	0-75mm/0-3"
1111-100	0-100mm/0-4"



Mekanik Saatli
Kumpas

Kod	Ölçüm Aralığı
1312-100	0-100mm
1311-150	0-150mm
1312-150	0-150mm

Kod	Ölçüm Aralığı
1311-200	0-200mm
1312-200	0-200mm
1311-300	0-300mm
1312-300	0-300mm



Mekanik
Kumpas

Kod	Ölçüm Aralığı
1205-100	0-100mm/0-4"
1205-150	0-150mm/0-6"
1205-200	0-200mm/0-8"
1205-300	0-300mm/0-12"



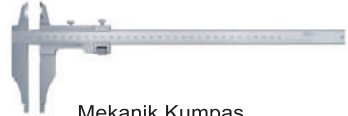
3 Ağızlı
Mekanik Kumpas

Kod	Ölçüm Aralığı
1273-40	1-40mm/0.04-1.6"
1273-75	20-75mm/0.8-3"
1274-40	4-40mm/0.16-1.6"
1274-75	20-75mm/0.8-3"



Mekanik Kumpas

Kod	Ölçüm Aralığı	Standart Çene Ölçüsü
1208-284	0-200mm/0-8"	80mm/3.1"
1208-184	0-250mm/0-10"	80mm/3.1"
1208-394	0-300mm/0-12"	90mm/3.5"
1208-414	0-400mm/0-16"	100mm/3.9"
1208-514	0-500mm/0-20"	100mm/3.9"
1208-614	0-600mm/0-24"	100mm/3.9"
1208-824	0-800mm/0-32"	150mm/5.9"
1208-1024	0-1000mm/0-40"	150mm/5.9"



Mekanik Kumpas

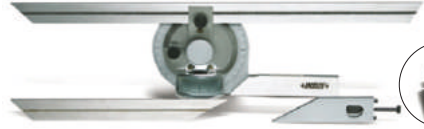
Kod	Ölçüm Aralığı	Standart Çene Ölçüsü
1207-364	0-300mm/0-12"	60mm/2.4"
1207-514	0-500mm/0-20"	100mm/3.9"
1207-614	0-600mm/0-24"	100mm/3.9"
1207-824	0-800mm/0-32"	150mm/5.9"
1207-1024	0-1000mm/0-40"	150mm/5.9"
1207-1524	0-1500mm/0-60"	150mm/5.9"
1207-2024	0-2000mm/0-80"	150mm/5.9"

Hassas Ölçü Aletleri



Dereceli Gönye

Kod	Ölçüler
4799-180	80 x 120 mm
4799-1120	120 x 150 mm
4799-1150	150 x 200 mm
4799-1200	200 x 300 mm
4799-1300	300 x 500 mm



Dereceli Merceklı Gönye

Kod : 2372-360 Açı : 360°



90° Kıl Gönye

Kod	Ölçüler
4795-50	50x40mm
4795-75	75x50mm
4795-100	100x70mm
4795-150	150x100mm
4795-200	200x130mm



90° Gönye

Kod	Ölçüler
4791-50	50x40mm
4791-75	75x50mm
4791-100	100x70mm
4791-150	150x100mm
4791-200	200x130mm
4791-250	250x165mm
4791-300	300x200mm



90° Şapkalı Gönye

Kod	Ölçüler
4793-50	50x40mm
4793-75	75x50mm
4793-100	100x70mm
4793-150	150x100mm
4793-200	200x130mm
4793-250	250x165mm
4793-300	300x200mm



Filler Çakısı



Kod	Ölçüler	Adet
4602-8	0,05-0,50mm	8pcs
4602-10	0,05-0,80mm	10pcs
4602-13	0,05-1,00mm	13pcs
4602-17	0,02-1,00mm	17pcs
4602-20	0,05-1,00mm	20pcs
4602-32	0,03-1,00mm	32pcs

Diş Tarağı



Kod	Ölçüler	Adet
4820-121	0.4-7.0mm	21pcs
4820-124	0.25-7.0mm	24pcs
4820-230	4-42TPI	30pcs
4820-223	4-62TPI	23pcs

Kod	Ölçüler	Adet
4820-330	4-42TPI	30pcs
4820-328	4-62TPI	28pcs
4820-452	4-62TPI	28pcs
	0,25-6,0mm	24pcs

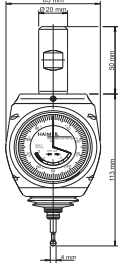
Radus Mastarı



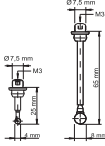
Kod	Ölçüler	Adet
4801-17	1-7mm	17pcs
4801-16	7.5-15mm	16pcs
4801-15	15.5-25mm	15pcs

INSIZE
Mitutoyo
ASIMETO

Hassas Ölçü Aletleri



3 Boyutlu
Ölçüm için
3D Teaster



Sertlik Ölçüm
Cihazı

STANDART AKSESUARLAR

- ELMAS KONİK BAŞLIK 1 ADET
- V CUBUĞU 1 ADET
- KÜÇÜK DÜZ CUBUK 1 ADET
- BÜYÜK DÜZ CUBUK 1 ADET
- ROCKWELL STANDART 5 ADET
- 1/16" ÇELİK BİLYE BAŞLI 1 ADET
- KULLANMA KILAVUZU 1 ADET



AS-640-01-0



AS-640-02-0

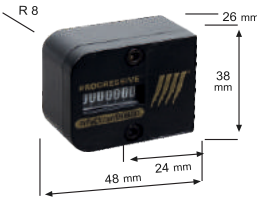
KOD	HASSASİYET	KOMPLE BOY (SAPSIZ)	AÇIKLAMA
HEIM-8036000	0,01 mm	113 mm	3D TESTER MEKANİK
HEIM-8036200	-	-	Ø4 KISA UÇ
HEIM-8036300	-	-	Ø8 UZUN UÇ

ARALIK	TEST YÜKSEKLİĞİ	BOĞAZ DERİNLİĞİ
20-88HRA, 20-100HRB, 20-70HRC	170 mm	135 mm
20-88HRA, 20-100HRB, 20-70HRC	400 mm	160 mm

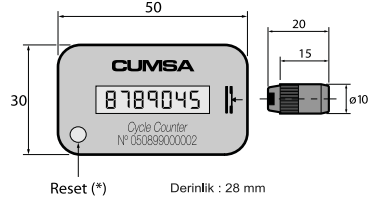
Press Kalıp Sayacı
5 Haneli



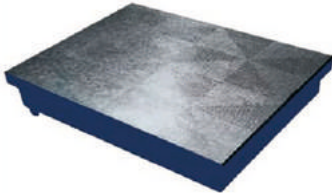
Plastik Kalıp Sayacı
7 haneli



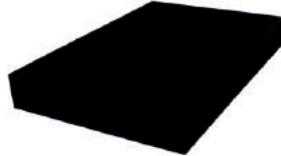
Dijital Kalıp Sayacı
7 haneli



Döküm Pleyt



Granit Pleyt

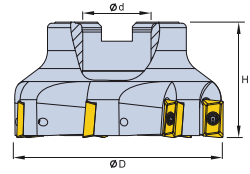


KOD	BOY (mm)	EN (mm)	YÜKSEKLİK (mm)	AĞIRLIK (kg)
C002-4030D	400	300	85	15
C002-6040D	600	400	95	35
C002-8050D	800	500	100	65
C002-1075D	1000	750	170	120

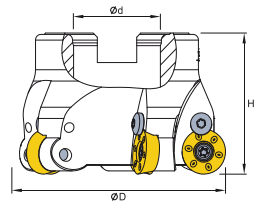
KOD	BOY (mm)	EN (mm)	YÜKSEKLİK (mm)	AĞIRLIK (kg)
C002-4025	400	250	80	30
C002-6340	630	400	100	80
C002-8050	800	500	130	150
C002-1063	1000	630	150	280
C002-1280	1200	800	160	360
C002-1610	1600	1000	200	1080
C002-2020	2000	1000	200	1360

Tarama Başlıkları

SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)				KULLANILAN UÇ
		ØD	Ød	Z	H	
T176	D040-16 Z05 AP10	40	16	5	40	AP □ □ 1003
T177	D050-22 Z06 AP10	50	22	6	40	
T178	D063-22 Z07 AP 10	63	22	7	40	
T179	D080-32 Z08 AP 10	80	32	8	50	
T180	D040-16 Z03 AP16	40	16	3	45	AP □ □ 1604
T181	D040-16 Z04 AP16	40	16	4	45	
T182	D050-22 Z04 AP16	50	22	4	45	
T183	D050-22 Z05 AP16	50	22	5	45	
T184	D063-22 Z05 AP16	63	22	5	45	
T185	D063-22 Z06 AP16	63	22	6	45	
T186	D080-32 Z06 AP16	80	32	6	52	
T187	D080-32 Z07 AP16	80	32	7	52	
T188	D100-32 Z07 AP16	100	32	7	52	
T189	D100-32 Z08 AP16	100	32	8	52	
T190	D125-40 Z09 AP16	125	40	9	62	
T192	D160-40 Z10 AP16	160	40	10	62	



SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)				KULLANILAN UÇ
		ØD	Ød	Z	H	
T288	D040-16 Z03 RD10	40	16	3	40	RD □ □ 1003
T289	D040-16 Z04 RD10	40	16	4	40	
T290	D050-22 Z04 RD10	50	22	4	40	
T291	D050-22 Z05 RD10	50	22	5	40	
T292	D063-22 Z05 RD10	63	22	5	40	
T293	D063-22 Z06 RD10	63	22	6	40	
T294	D080-32 Z06 RD10	80	32	6	50	
T294-1	D080-32 Z07 RD10	80	32	7	50	
T295	D100-32 Z07 RD10	100	32	7	50	
T295-1	D100-32 Z08 RD10	100	32	8	50	
T280	D040-16 Z03 RD12	40	16	3	40	RD □ □ 12T3
T281	D040-16 Z04 RD12	40	16	4	40	
T282	D050-22 Z04 RD12	50	22	4	40	
T283	D050-22 Z05 RD12	50	22	5	40	
T284	D063-22 Z05 RD12	63	22	5	40	
T285	D063-22 Z06 RD12	63	22	6	40	
T286	D080-32 Z06 RD12	80	32	6	50	
T286-1	D080-32 Z07 RD12	80	32	7	50	
T287	D100-32 Z07 RD12	100	32	7	50	
T287-1	D100-32 Z08 RD12	100	32	8	50	
T296	D063-22 Z04 RD16	63	22	4	45	RD □ □ 1605
T297	D080-32 Z05 RD16	80	32	5	50	
T298	D100-32 Z06 RD16	100	32	6	50	



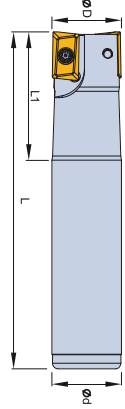
Saplı Tarama Başlıkları



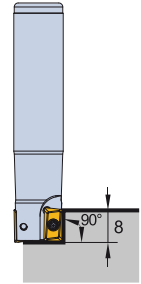
SIPARIŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ
		ØD	Ød	Z	L	L1	
S136	12-01-100-AP10	12	12	1	100	27	APKT 1003
S138	14-01-100-AP10	14	14	1	100	27	
S140	16-02-100-AP10	16	16	2	100	30	
S142	18-02-100-AP10	18	16	2	100	30	
S144	20-03-100-AP10	20	20	3	100	30	
S146	22-03-100-AP10	22	20	3	100	30	
S148	25-03-100-AP10	25	25	3	100	35	
S150	30-04-100-AP10	30	25	4	100	35	
S152	32-04-100-AP10	32	25	4	100	35	
S154	35-04-100-AP10	35	25	4	100	35	
S156	40-05-100-AP10	40	25	5	100	35	
S158	12-01-120-AP10	12	12	1	120	27	
S160	14-01-120-AP10	14	14	1	120	30	
S162	16-02-120-AP10	16	16	2	120	40	
S164	18-02-120-AP10	18	16	2	120	40	
S166	20-03-120-AP10	20	20	3	120	40	
S168	22-03-120-AP10	22	20	3	120	40	
S169	25-03-120-AP10	25	25	3	120	40	
S170	30-04-120-AP10	30	25	4	120	40	
S171	35-04-120-AP10	35	25	4	120	40	
S172	40-05-120-AP10	40	25	5	120	40	
S173	16-02-150-AP10	16	16	2	150	50	
S174	18-02-150-AP10	18	16	2	150	50	
S176	20-03-150-AP10	20	20	3	150	60	
S178	22-03-150-AP10	22	20	3	150	60	
S180	25-03-150-AP10	25	25	3	150	60	
S180-1	30-04-150-AP10	30	25	4	150	60	
S181	32-04-150-AP10	32	25	4	150	60	
S182	16-02-200-AP10	16	16	2	200	60	
S184	18-02-200-AP10	18	16	2	200	60	
S186	20-03-200-AP10	20	20	3	200	60	
S187	22-03-200-AP10	22	20	3	200	70	
S188	25-03-200-AP10	25	25	3	200	60	
S188-1	30-04-200-AP10	30	25	4	200	50	
S189	32-03-200-AP10	32	32	4	200	60	
S190	16-02-250-AP10	16	16	2	250	70	
S192	20-03-250-AP10	20	20	3	250	70	
S194	25-03-250-AP10	25	25	3	250	70	




APKT 1003

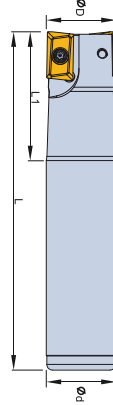




APKT 1003

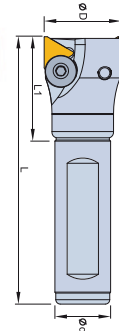


Saplı Tarama Başlıkları

SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ
		ØD	Ød	Z	L	L1	
S256	25-02-120-AP16	25	25	2	120	45	 APKT 1604
S258	30-02-120-AP16	30	25	2	120	45	
S260	32-03-120-AP16	32	25	3	120	45	
S262	35-03-120-AP16	35	25	3	120	45	
S264	40-04-120-AP16	40	25	4	120	45	
S266	25-02-150-AP16	25	25	2	150	55	
S268	30-02-150-AP16	30	25	2	150	55	
S270	32-03-150-AP16	32	25	3	150	55	
S272	35-03-150-AP16	35	25	3	150	55	
S274	40-04-150-AP16	40	25	4	150	55	
S276	25-02-200-AP16	25	25	2	200	55	
S278	30-02-200-AP16	30	25	2	200	55	
S280	32-03-200-AP16	32	25	3	200	55	
S282	35-03-200-AP16	35	32	3	200	55	
S283	40-04-200-AP16	40	32	4	200	55	
S432	25-02-250-AP16	25	25	2	250	60	
S434	30-02-250-AP16	30	25	2	250	60	
S436	32-03-250-AP16	32	32	3	250	60	
S438	35-03-250-AP16	35	32	3	250	60	
S440	40-04-250-AP16	40	32	4	250	60	
S442	25-02-300-AP16	25	25	2	300	70	
S444	30-02-300-AP16	30	25	2	300	70	
S446	32-03-300-AP16	32	32	3	300	70	
S448	35-03-300-AP16	35	32	3	300	70	
S450	40-04-300-AP16	40	32	4	300	70	
S453	32-03-350-AP16	32	32	3	350	70	
S454	35-03-350-AP16	35	32	3	350	70	
S456	40-04-350-AP16	40	32	4	350	70	

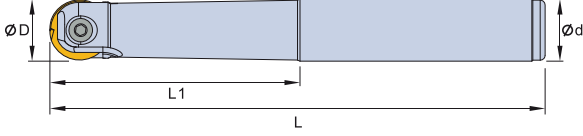


SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ
		ØD	Ød	Z	L	L1	
S116	22-02-120-TP11	22	20	2	120	45	 TPKN 1103
S118	25-02-120-TP11	25	25	2	120	45	
S120	28-02-120-TP11	28	25	2	120	45	
S122	30-03-120-TP11	30	25	3	120	45	
S124	32-03-120-TP11	32	25	3	120	45	
S126	35-03-120-TP11	35	25	3	120	45	
S128	35-02-120-TP16	35	25	2	120	45	 TPKN 1603
S130	40-03-120-TP16	40	25	3	120	45	
S132	45-03-120-TP16	45	25	3	120	45	
S134	50-03-120-TP22	50	32	3	120	55	TPKN 2204



Saplı Tarama Başlıkları

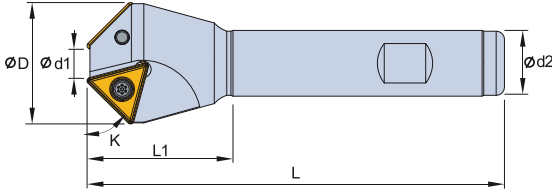
Küre Saplı Tarama Başlığı



SIPARIŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)				KULLANILAN UÇ
		ØD	Ød	L	L1	
S370	08-10-130	8	10	130	50	P3201 D08
S372	10-12-130	10	12	130	60	P3201 D10
S374	12-12-150	12	12	150	70	P3201 D12
S376	16-16-175	16	16	175	80	P3201 D16
S378	20-20-200	20	20	200	100	P3201 D20
S380	25-25-200	25	25	200	100	P3201 D25
S381	30-32-200	30	32	200	90	P3201 D30
S382	32-32-200	32	32	200	90	P3201 D32



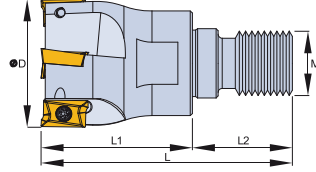
Açılı Saplı Tarama Başlığı



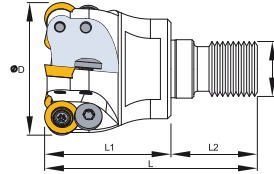
SIPARIŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)							KULLANILAN UÇ
		ØD	Ød1	Ød2	Z	L	L1	K	
S335	02-16-22-TC11	16	2	16	2	100	35	30°	TCMT 1102
S334	04-15-21-TC11	15	4	16	1	100	35	45°	
S339	10-31-22-TC16	31	10	16	2	100	35	30°	
S336	10-31-22-TC16	31	10	16	2	100	35	45°	TCMT 16T3
S338	14-35-22-TC16	35	14	20	2	100	35	45°	
S340	22-43-23-TC16	43	22	25	3	100	35	45°	
S342	32-53-23-TC16	53	32	25	3	100	35	45°	
S343	24-39-22-TC16	39	24	20	2	100	35	60°	



Vidalı Tarama Başlıkları



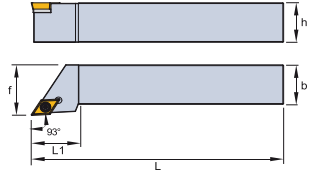
SIPARIŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		ØD	M	Z	L	L1	L2	
VT 138	20-03-M10-AP10	20	M10	3	55	38	17	APKT 1003
VT 140	25-03-M12-AP10	25	M12	3	55	33	22	
VT 143	32-04-M16-AP10	32	M16	4	60	36	24	
VT 146	35-04-M16-AP10	35	M16	4	60	36	24	
VT 148	40-05-M16-AP10	40	M16	5	60	36	24	
VT 150	42-05-M16-AP10	42	M16	5	60	36	24	
VT 160	25-02-M12-AP16	25	M12	2	55	33	22	APKT 1604
VT 163	32-03-M16-AP16	32	M16	3	60	36	24	
VT 166	35-03-M16-AP16	35	M16	3	60	36	24	
VT 168	40-04-M16-AP16	40	M16	4	60	36	24	
VT 170	42-04-M16-AP16	42	M16	4	60	36	24	





SIPARIŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		ØD	M	Z	L	L1	L2	
VT 098	20-02-M10-RD10	20	M10	2	55	35	20	RDMT 1003
VT 100	25-03-M12-RD10	25	M12	3	55	33	22	
VT 103	32-03-M16-RD10	32	M16	3	60	36	24	
VT 106	35-04-M16-RD10	35	M16	4	60	36	24	
VT 108	40-05-M16-RD10	40	M16	5	60	36	24	
VT 110	42-05-M16-RD10	42	M16	5	60	36	24	
VT 120	25-02-M12-RD12	25	M12	2	55	33	22	RDMT 12T3
VT 123	32-03-M16-RD12	32	M16	3	60	36	24	
VT 126	35-03-M16-RD12	35	M16	3	60	36	24	
VT 128	40-04-M16-RD12	40	M16	4	60	36	24	
VT 130	42-04-M16-RD12	42	M16	4	60	36	24	
VT 132	45-04-M16-RD12	45	M16	4	60	36	24	

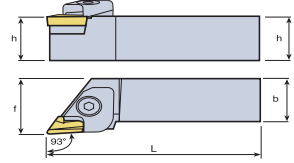
Diş Paso Torna Katerleri



93° SDJC - SDJCL



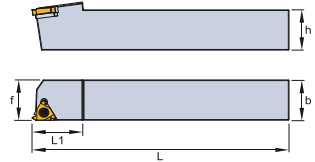
SIPARIŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ	ALTLIK
		L	L1	h	f	b		
D220	SDJCR 1010 J07	110	12	10	10	10	 DC □ 0702 DCMT 11 T3 DCMT 11 T3	 ----- ----- TA 030
D222	SDJCR 1212 J11	110	18	12	12	12		
D224	SDJCR 1616 H11	100	24	16	20	16		
D226	SDJCR 2020 K11	125	24	20	25	20		
D228	SDJCR 2525 M11	150	30	25	32	25		
D360	SDJCL 1010 J07	110	12	10	10	10		
D362	SDJCL 1212 J11	110	18	12	12	12		
D364	SDJCL 1616 H11	100	24	16	20	16		
D366	SDJCL 2020 K11	125	24	20	25	20		
D368	SDJCL 2525 M11	150	30	25	32	25		



93° CKJNR R-L



ÜRÜN KODU	ÖLÇÜLER (mm)				KULLANILAN UÇ	ALTLIK
	h	b	L	f		
CKJNR/L 2020 K 16	20	20	125	25	 KNUX 16 04..	 AKS-16-R AKS-16-L
2525 M 16	25	25	150	32		
3232 P 16	32	32	170	40		
4040 S 16	40	40	250	50		

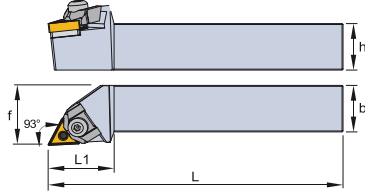
Diş Çap Diş Kateri R-L



SIPARIŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ	ALTLIK
		L	L1	h	f	b		
D261	AL 12-3	110	20	12	12	12	 16 ER 22 ER 16 ER 16 ER	 TA 044 ----- TA 044 TA 044
D259	AL 16-3	100	22	16	16	16		
D258	AL 20-3	125	25	20	20	20		
D260	AL 25-3	150	30	25	25	25		
D266	AL 25-4	150	36	25	25	25		
D262	AL 32-3	170	30	32	32	32		
D268	AL 20-3 SOL	125	25	20	20	20		
D269	AL 25-3 SOL	150	30	25	25	25		

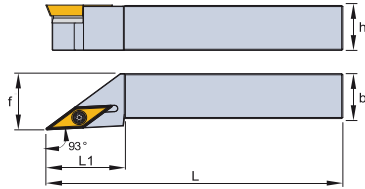
Dış Paso Torna Katerleri

93° DDJNR - DDJNL





SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ	ALTLIK	BASKI
		L	L1	h	f	b			
D167	DDJNR 2020 K11	125	35	20	25	20	DN □ 1104 DN □ 1506	TA 030 TA 014	BK 021 BK 020
D168	DDJNR 2525 M11	150	35	25	32	25			
D170	DDJNR 2020 K15	125	38	20	25	20			
D172	DDJNR 2525 M15	150	38	25	32	25			
D174	DDJNR 3232 P15	170	38	32	40	32			
D307-1	DDJNL 2020 K11	125	35	20	25	20	DN □ 1104 DN □ 1506	TA 030 TA 014	BK 021 BK 020
D308	DDJNL 2525 M11	150	35	25	32	25			
D310	DDJNL 2020 K15	125	38	20	25	20			
D312	DDJNL 2525 M15	150	38	25	32	25			
D314	DDJNL 3232 P15	170	38	32	40	32			

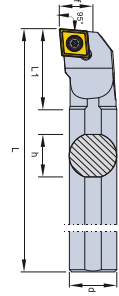
93° SVJBR - SVJBL



SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ	ALTLIK
		L	L1	h	f	b		
D230	SVJBR 1010 J11	110	21	10	10	10	VB □ 1103 VBMT 1604	TA 034
D232	SVJBR 1212 J11	110	21	12	12	12		
D234	SVJBR 1616 H11	110	21	16	16	16		
D235	SVJBR 1616 H16	100	27	16	20	16		
D236	SVJBR 2020 K16	125	33	20	25	20		
D238	SVJBR 2525 M16	150	39	25	32	25	VB □ 1103 VBMT 1604	TA 034
D370	SVJBL 1010 J11	110	21	10	10	10		
D372	SVJBL 1212 J11	110	21	12	12	12		
D373	SVJBL 1616 H11	110	21	16	16	16		
D374	SVJBL 1616 H16	100	27	16	20	16		
D380	SVJBL 2020 K16	125	33	20	25	20	VBMT 1604	TA 034
D382	SVJBL 2525 M16	150	39	25	32	25		


İç Paso Delik Katerleri

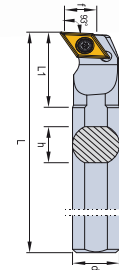
SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ	
		D _{min}	d	L	L ₁	f	h		
K100	S06-08H SCLCR 06	8	8	100	25	4.3	7		
K102	S08H SCLCR 06	11	8	100	20	5.5	7		
K104	S10J SCLCR 06	13	10	110	20	6	9		
K105	S10K SCLCR 06	13	10	125	20	6	9		
K106	S12K SCLCR 06	16	12	125	24	9	11		
K107	S12Q SCLCR 06	16	12	180	24	9	11		
K108	S14-16Q SCLCR 09	19	16	180	45	10	15		
K110	S16Q SCLCR 09	20	16	180	30	11	15		
K111	S16R SCLCR 09	20	16	200	30	11	15		
K112	S18-20Q SCLCR 09	24	20	180	37	12	18		
K114	S20Q SCLCR 09	25	20	180	37	13	18		
K115	S20S SCLCR 09	25	20	250	37	13	18		
K116	S25R SCLCR 09	32	25	200	40	17	23		
K117	S25T SCLCR 09	32	25	300	40	17	23		
K230	S06-08H SCLCL 06	8	8	100	25	7	7		
K232	S08H SCLCL 06	11	8	100	20	7	7		
K234	S10J SCLCL 06	13	10	110	20	9	9		
K236	S12K SCLCL 06	16	12	125	24	11	11		
K238	S14-16Q SCLCL 09	19	16	180	45	15	15		
K240	S16Q SCLCL 09	20	16	180	30	15	15		
K241	S16R SCLCL 09	20	16	200	30	15	15		
K244	S20Q SCLCL 09	25	20	180	37	18	18		
K245	S20S SCLCL 09	25	20	250	37	18	18		
K246	S25R SCLCL 09	32	25	200	40	23	23		



CC □ □ 0602

CC □ □ 09T3

SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		D _{min}	d	L	L ₁	f	h	
K120	S10J SDUCR 07	14	10	110	20	7	9	
K122	S12K SDUCR 07	17	12	125	24	9	11	
K124	S14-16Q SDUCR 07	20	16	180	40	10.5	15	
K126	S16Q SDUCR 07	21	16	180	27	11	15	
K125	S14-16Q SDUCR 11	20	16	180	45	10.5	15	
K128	S16Q SDUCR 11	21	16	180	30	11	15	
K130	S20Q SDUCR 11	25	20	180	32	13	18	
K132	S25R SDUCR 11	32	25	200	40	17	23	
K134	S32T SDUCR 11	40	32	300	45	22	30	
K250	S10J SDUCL 07	14	10	110	20	7	9	
K252	S12K SDUCL 07	17	12	125	24	9	11	
K254	S14-16Q SDUCL 07	20	16	180	40	10.5	15	
K256	S16Q SDUCL 07	21	16	180	27	11	15	
K258	S16Q SDUCL 11	21	16	180	30	11	15	
K260	S20Q SDUCL 11	25	20	180	32	13	18	
K262	S25R SDUCL 11	32	25	200	40	17	23	
K263	S32T SDUCL 11	40	32	300	45	22	30	



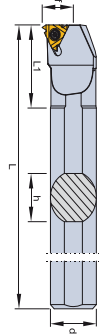
DC □ □ 0702

DC □ □ 11T3

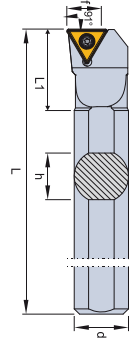
İç Paso Delik Katerleri



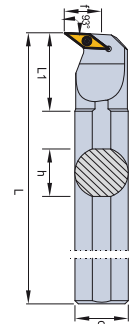
SIPARIŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		Dmin	d	L	L1	f	h	
K348	S10J STIR 11	12	10	110	20	6	7	11 IR
K350	S12K STIR 11	14	12	125	24	7.2	11	
K352	S16Q STIR 16	20	16	180	40	11	15	
K354	S20Q STIR 16	24	20	180	40	13	18	16 IR
K356	S25R STIR 16	29	25	200	40	16	23	
K358	S32T STIR 16	36	32	300	40	19.5	30	
K359	S25R STIR 22	32	25	200	40	17	23	22 IR
K360	S32T STIR 22	39	32	300	40	22	30	
K360-1	S40T STIR 22	50	40	300	60	24.5	38	
K361	S16Q STIL 16	20	16	180	40	11	15	16 IR
K362	S20Q STIL 16	24	20	180	40	13	18	
K363	S25R STIL 16	29	25	200	40	16	23	



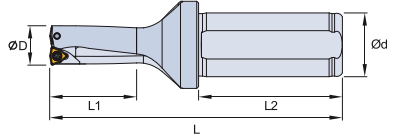
SIPARIŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		Dmin	d	L	L1	f	h	
K160	S12K STFCR 11	17	12	125	24	9	11	TCMT 1102
K161	S16Q STFCR 11	21	16	180	30	11	15	
K162	S16Q STFCR 16	21	16	180	30	11	15	
K164	S20Q STFCR 16	25	20	180	30	13	18	TCMT 16T3
K166	S25R STFCR 16	32	25	200	37	16	23	











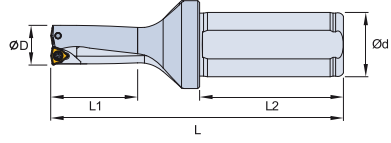
SIPARIŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		Dmin	d	L	L1	f	h	
K206	S16Q SVUBR 11	21	16	180	30	11	15	VBMT 1103
K207	S20Q SVUBR 11	25	20	180	30	13	18	
K208	S25R SVUBR 16	32	25	200	40	17	23	
K209	S32T SVUBR 16	40	32	300	50	22	30	VBMT 1604
K210	S40T SVUBR 16	49	40	300	55	27	38	



Udrill Matkap

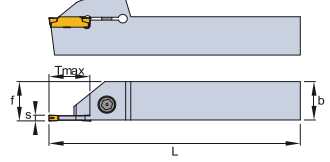


SIPARIŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		D	d	d1	L	L1	L2	
U104	D2 16 WCMX 03	16	25	34	115	32	55	 WCMX 0302
U105	D2 17 WCMX 03	17	25	34	118	34	55	
U106	D2 18 WCMX 03	18	25	34	120	36	55	
U107	D2 19 WCMX 03	19	25	34	123	38	55	
U108	D2 20 WCMX 04	20	25	34	125	40	55	 WCMX 0402
U110	D2 21 WCMX 04	21	25	34	129	42	55	
U112	D2 22 WCMX 04	22	25	34	131	44	55	
U114	D2 23 WCMX 04	23	25	34	134	46	55	
U116	D2 24 WCMX 05	24	25	34	136	48	55	 WCMX 0503
U118	D2 25 WCMX 05	25	25	34	138	50	55	
U120	D2 26 WCMX 05	26	25	34	147	52	55	
U122	D2 27 WCMX 05	27	25	34	149	54	55	
U124	D2 28 WCMX 05	28	25	34	152	56	55	
U126	D2 29 WCMX 05	29	25	34	154	58	55	
U128	D2 30 WCMX 06	30	32	44	156	60	58	 WCMX 06T3
U130	D2 31 WCMX 06	31	32	44	161	62	58	
U132	D2 32 WCMX 06	32	32	44	163	64	58	
U134	D2 33 WCMX 06	33	32	44	165	66	58	
U136	D2 34 WCMX 06	34	32	44	168	68	58	
U137	D2 35 WCMX 06	35	32	44	170	70	58	
U138	D2 36 WCMX 06	36	32	44	172	72	58	
U139	D2 37 WCMX 06	37	32	44	174	74	58	
U140	D2 38 WCMX 06	38	32	44	176	76	58	
U141	D2 39 WCMX 06	39	32	44	178	78	58	
U142	D2 40 WCMX 06	40	32	44	180	80	58	
U143	D3 16 WCMX 03	16	25	34	131	48	55	 WCMX 0302
U144	D3 17 WCMX 03	17	25	34	135	51	55	
U146	D3 18 WCMX 03	18	25	34	138	54	55	
U148	D3 19 WCMX 03	19	25	34	142	57	55	
U150	D3 20 WCMX 04	20	25	34	145	60	55	 WCMX 0402
U152	D3 21 WCMX 04	21	25	34	150	63	55	
U154	D3 22 WCMX 04	22	25	34	153	66	55	
U156	D3 23 WCMX 04	23	25	34	157	69	55	
U158	D3 24 WCMX 05	24	25	34	160	72	55	 WCMX 0503
U160	D3 25 WCMX 05	25	25	34	163	75	55	
U162	D3 26 WCMX 05	26	25	34	173	78	55	
U164	D3 27 WCMX 05	27	25	34	176	81	55	
U166	D3 28 WCMX 05	28	25	34	180	84	55	
U168	D3 29 WCMX 05	29	25	34	183	87	55	
U170	D3 30 WCMX 06	30	32	44	186	90	58	 WCMX 06T3
U172	D3 31 WCMX 06	31	32	44	192	93	58	
U174	D3 32 WCMX 06	32	32	44	195	96	58	
U176	D3 33 WCMX 06	33	32	44	198	99	58	
U178	D3 34 WCMX 06	34	32	44	202	102	58	
U179	D3 35 WCMX 06	35	32	44	205	105	58	
U180	D3 36 WCMX 06	36	32	44	208	108	58	
U181	D3 37 WCMX 06	37	32	44	211	111	58	



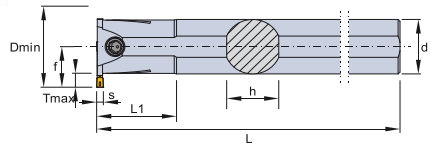
SIPARIŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		D	d	d1	L	L1	L2	
U182	D3 38 WCMX 06	38	32	44	214	114	58	WCMX 06T3
U183	D3 39 WCMX 06	39	32	44	217	117	58	
U184	D3 40 WCMX 06	40	32	44	220	120	58	
U186	D3 41 WCMX 06	41	32	49	220	123	58	
U188	D3 42 WCMX 06	42	32	49	220	126	58	
U190	D3 43 WCMX 06	43	32	49	225	129	58	
U192	D3 44 WCMX 06	44	32	49	225	132	58	
U194	D3 45 WCMX 06	45	32	49	225	135	58	
U196	D3 46 WCMX 08	46	40	59	230	138	68	
U198	D3 47 WCMX 08	47	40	59	230	141	68	
U200	D3 48 WCMX 08	48	40	59	230	144	68	
U201	D3 49 WCMX 08	49	40	59	235	147	68	
U202	D3 50 WCMX 08	50	40	59	235	150	68	
U203	D3 51 WCMX 08	51	40	59	235	153	68	
U205	D3 52 WCMX 08	52	40	59	245	156	68	
U207	D3 53 WCMX 08	53	40	59	245	159	68	
U209	D3 54 WCMX 08	54	40	59	245	162	68	
U211	D3 55 WCMX 08	55	40	59	255	165	68	
U600	D4 16 WCMX 03	16	25	34	139	64	55	WCMX 0302
U602	D4 17 WCMX 03	17	25	34	143	68	55	
U604	D4 18 WCMX 03	18	25	34	148	72	55	
U606	D4 19 WCMX 03	19	25	34	152	76	55	
U608	D4 20 WCMX 04	20	25	34	158	80	55	WCMX 0402
U610	D4 21 WCMX 04	21	25	34	162	84	55	
U612	D4 22 WCMX 04	22	25	34	166	88	55	
U614	D4 23 WCMX 04	23	25	34	171	92	55	
U616	D4 24 WCMX 05	24	25	34	175	96	55	WCMX 0503
U618	D4 25 WCMX 05	25	25	34	180	100	55	
U620	D4 26 WCMX 05	26	25	34	184	104	55	
U622	D4 27 WCMX 05	27	25	34	189	108	55	
U624	D4 28 WCMX 05	28	25	34	194	112	55	
U626	D4 29 WCMX 05	29	25	34	198	116	55	
U628	D4 30 WCMX 06	30	32	44	209	120	58	WCMX 06T3
U631	D4 31 WCMX 06	31	32	44	215	124	58	
U632	D4 32 WCMX 06	32	32	44	219	128	58	
U633	D4 33 WCMX 06	33	32	44	223	132	58	
U634	D4 34 WCMX 06	34	32	44	227	136	58	
U635	D4 35 WCMX 06	35	32	44	231	140	58	
U636	D4 36 WCMX 06	36	32	44	235	144	58	
U637	D4 37 WCMX 06	37	32	44	239	148	58	
U638	D4 38 WCMX 06	38	32	44	241	152	58	
U639	D4 39 WCMX 06	39	32	44	245	156	58	
U640	D4 40 WCMX 06	40	32	44	250	160	58	

Kanal Açma - Kesme Katerleri



SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		L	Tmax	h	b	f	s	
D658	1212 2C-R JD KORLOY	125	16	12	12	12	2	2C JD KORLOY
D660	1616 2C-R JD KORLOY	125	16	16	16	16	2	
D662	2020 2C-R JD KORLOY	125	16	20	20	20	2	3C JD KORLOY
D664	2525 2C-R JD KORLOY	150	16	25	25	25	2	
D666	3232 2C-R JD KORLOY	170	18	32	32	32	2	4C JD KORLOY
D667	1212 3C-R JD KORLOY	125	18	12	12	12	3	
D668	1616 3C-R JD KORLOY	125	18	16	16	16	3	5C JD KORLOY
D670	2020 3C-R JD KORLOY	125	18	20	20	20	3	
D672	2525 3C-R JD KORLOY	150	18	25	25	25	3	6C JD KORLOY
D674	3232 3C-R JD KORLOY	170	20	32	32	32	3	
D675	1616 4C-R JD KORLOY	125	18	16	16	16	4	5C JD KORLOY
D676	2020 4C-R JD KORLOY	125	18	20	20	20	4	
D678	2525 4C-R JD KORLOY	150	18	25	25	25	4	6C JD KORLOY
D680	3232 4C-R JD KORLOY	170	20	32	32	32	4	
D682	2020 5C-R JD KORLOY	125	18	20	20	20	5	6C JD KORLOY
D684	2525 5C-R JD KORLOY	150	24	25	25	25	5	
D686	3232 5C-R JD KORLOY	170	24	32	32	32	5	6C JD KORLOY
D687	2525 6C-R JD KORLOY	150	24	25	25	25	6	
D687-1	3232 6C-R JD KORLOY	170	24	32	32	32	6	

İç Çap Kanal Kateri



SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)								KULLANILAN UÇ
		Dmin	Tmax	L	L1	d	h	f	s	
K600	S16Q 2C JD KORLOY	20	4,90	180	35	16	15	12,5	2	2C JD KORLOY
K602	S20Q 2C JD KORLOY	25	5,70	180	35	20	18	15,5	2	
K603	S25R 2C JD KORLOY	31	5,70	200	35	25	23	18,6	2	3C JD KORLOY
K604	S20Q 3C JD KORLOY	25	6	180	35	20	18	15,8	3	
K606	S25R 3C JD KORLOY	31	6,70	200	40	25	23	19	3	4C JD KORLOY
K608	S32S 3C JD KORLOY	37	6,70	250	45	32	30	21,5	3	
K609	S40T 3C JD KORLOY	45	7,40	300	60	40	38	27	3	5C JD KORLOY
K610	S20Q 4C JD KORLOY	25	6	180	35	20	18	15,8	4	
K612	S25R 4C JD KORLOY	31	6	200	40	25	23	19	4	6C JD KORLOY
K614	S32S 4C JD KORLOY	37	6	250	65	32	30	21,5	4	
K616	S40T 4C JD KORLOY	45	7,40	300	60	40	38	27	4	5C JD KORLOY
K618	S25R 5C JD KORLOY	31	7	200	40	25	23	19,4	5	
K620	S32S 5C JD KORLOY	37	7	250	60	32	30	21,5	5	6C JD KORLOY
K622	S40T 5C JD KORLOY	45	7,40	300	60	40	38	27	5	

Tarama Başlıkları



Saplı Taramalar



Takma Uçlu Kanal Freze



Takma Uçlu Kanal Freze



Pah Kirma



Pah Kirma



Udril



Udril



Udril



Udril



Takma Uçlu T Freze



Tornalama Takımları

Dış çap ve alın katerleri

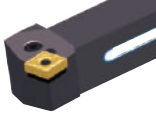
Levyeli sıkma sistemi

PCBNR/L



16x16
20x20
25x25

PCKNR/L



16x16
20x20
25x25

PCLNR/L



16x16
20x20
25x25

PDJNR/L



16x16
20x20
25x25

PDNNR/L



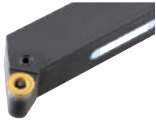
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25x25

PRDCN



16x16
20x20
25x25

PRGCR/L



16x16
20x20
25x25

PSDNN



16x16
20x20
25x25

PSBNR/L



16x16
20x20
25x25

PSKNR/L



16x16
20x20
25x25

PSSNR/L



16x16
20x20
25x25

PTFNR/L



16x16
20x20
25x25

PTGNR/L



16x16
20x20
25x25

PTTNR/L



16x16
20x20
25x25

PWLNR/L



16x16
20x20
25x25

MCKNR/L



16x16
20x20
25x25

MCLNR/L



16x16
20x20
25x25

MCMNN

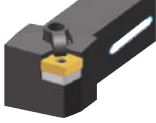


16x16
20x20
25x25

Tornalama Takımları

Dış çap ve alın katerleri

MCRNR/L



16x16
20x20
25x25

MDJNR/L



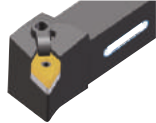
16x16
20x20
25x25

MDNNN



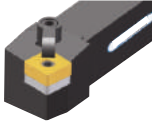
16x16
20x20
25x25

MDQNR/L



16x16
20x20
25x25

MSBNR/L



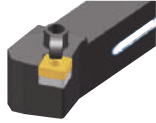
16x16
20x20
25x25

MSDNN



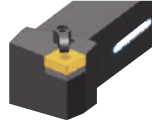
16x16
20x20
25x25

MSKNR/L



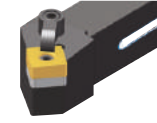
16x16
20x20
25x25

MSRNR/L



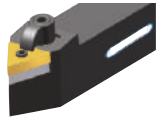
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25x25

MSSNR/L



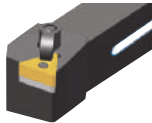
16x16
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25x25

MTENNS



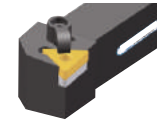
16x16
20x20
25x25

MTFNR/L



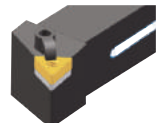
16x16
20x20
25x25

MTGNR/L



16x16
20x20
25x25

MTJNR/L



16x16
20x20
25x25

MVJNR/L



16x16
20x20
25x25

MVPCR/L



16x16
20x20
25x25

MVVNN



16x16
20x20
25x25

MWLN



16x16
20x20
25x25

Tornalama Takımları

Dış çap ve alın katerleri

Baskı parçalı sistem

WTJNR



16x16
20x20
25x25

WTXNR/L



16x16
20x20
25x25

WWLNR/L



16x16
20x20
25x25

Kenetli sistem

CCLNR/L



16x16
20x20
25x25

CKJNR/L



16x16
20x20
25x25

CRDNN



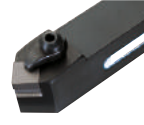
16x16
20x20
25x25

CRGNR/L



16x16
20x20
25x25

CSDNN



16x16
20x20
25x25

CSKNR/L



16x16
20x20
25x25

CSDPN



16x16
20x20
25x25

CSKPR/L



16x16
20x20
25x25

CTFNR/L



16x16
20x20
25x25

CKNNR/L



16x16
20x20
25x25

CTFPR/L



16x16
20x20
25x25

CTGNR/L



16x16
20x20
25x25

CTGPR/L



16x16
20x20
25x25

Vidalı sistem

DCCNR/L



16x16
20x20
25x25

DCLNR/L



16x16
20x20
25x25

DDJNR/L



16x16
20x20
25x25

DCKNR/L



16x16
20x20
25x25

DSBNR/L



16x16
20x20
25x25

DSDNN



16x16
20x20
25x25

Tornalama Takımları

Dış çap ve alın katerleri

DSKNR/L



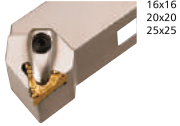
DSSNR/L



DTFNR/L



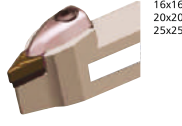
DTGNR/L



DVJNR/L



DVVNN

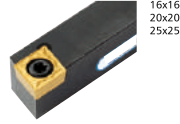


DWLNRL

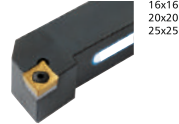


Vidalı sistem

SCACR/L



SCLCR/L



SDACR/L



SDJCR/L



SDNCN



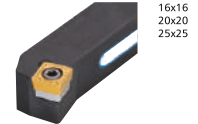
SSBCR/L



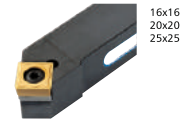
SSDCN



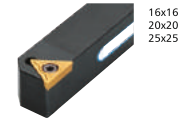
SSKCR/L



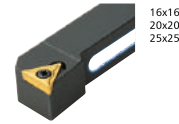
SSSCR/L



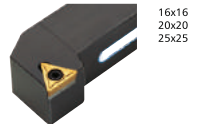
STACR/L



STFCR/L



STGCR/L



STTCR/L



SVABR/L



SVVBN



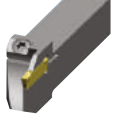
SWACR/L



Tornalama Takımları

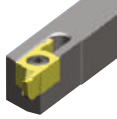
M.G.T

MGEHR/L



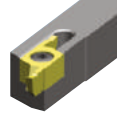
16x16
20x20
25x25

SXGNR/L



16x16
20x20
25x25

SXGNR/L



16x16
20x20
25x25

Vidalı sistem

SCLCR/L



S08-SCLCR/L
S10-SCLCR/L
S12-SCLCR/L
S16-SCLCR/L
S20-SCLCR/L
S25-SCLCR/L
S32-SCLCR/L

STUBR/L



S08-STUBR/L
S10-STUBR/L
S12-STUBR/L
S16-STUBR/L
S20-STUBR/L
S25-STUBR/L
S32-STUBR/L

SWUBR/L



S08-SWUBR/L
S10-SWUBR/L
S12-SWUBR/L
S16-SWUBR/L
S20-SWUBR/L
S25-SWUBR/L
S32-SWUBR/L

Vidalı sistem

SCLPR/L



S08-SCLPR/L
S10-SCLPR/L
S12-SCLPR/L
S16-SCLPR/L
S20-SCLPR/L
S25-SCLPR/L
S32-SCLPR/L

SDQCR/L, SDUCR/L



S10-SDQCR/L, SDUCR/L
S12-SDQCR/L, SDUCR/L
S16-SDQCR/L, SDUCR/L
S20-SDQCR/L, SDUCR/L
S25-SDQCR/L, SDUCR/L
S32-SDQCR/L, SDUCR/L

STWPR/L



S25-STWPR/L
S32-STWPR/L

SDZCR/L



S10-SDZCR/L
S12-SDZCR/L
S16-SDZCR/L
S20-SDZCR/L
S25-SDZCR/L
S32-SDZCR/L

STFCR/L



S10-STFCR/L
S12-STFCR/L
S16-STFCR/L
S20-STFCR/L
S25-STFCR/L
S32-STFCR/L

SVQBR/L



S32-SVQBR/L
S40-SVQBR/L

SVUBR/L



S32-SVUBR/L
S40-SVUBR/L

SWLCR/L



S32-SWLCR/L
S40-SWLCR/L

SVJCR/L



S32-SVJCR/L
S40-SVJCR/L

Levyeli sıkma sistemi

PDUNR/L



S25-PDUNR/L
S32-PDUNR/L
S40-PDUNR/L

PCLNR/L



S25-PCLNR/L
S32-PCLNR/L
S40-PCLNR/L

PDSNR/L



S25-PDSNR/L
S32-PDSNR/L
S40-PDSNR/L

Tornalama Takımları

Çoklu sıkma sistemi

Dış çap ve alın katerleri

MCLNR/L



S25-MCLNR/L
S32-MCLNR/L
S40-MCLNR/L

MDUNR/L



S25-MDUNR/L
S32-MDUNR/L
S40-MDUNR/L

MSKNR/L



S25-MSKNR/L
S32-MSKNR/L
S40-MSKNR/L

MTFNR/L



S25-MTFNR/L
S32-MTFNR/L
S40-MTFNR/L

MVUNR/L



S25-MVUNR/L
S32-MVUNR/L
S40-MVUNR/L

MWLNRL



S25-MWLNRL/L
S32-MWLNRL/L
S40-MWLNRL/L

Kenetli sistem

CKUNR/L



S25-CKUNR/L
S32-CKUNR/L
S40-CKUNR/L

CSKPR/L



S25-CSKPR/L
S32-CSKPR/L
S40-CSKPR/L

CTFPR/L



S25-CTFPR/L
S32-CTFPR/L
S40-CTFPR/L

Çoklu kenetli sistem

DCLNR/L



S25-DCLNR/L
S32-DCLNR/L
S40-DCLNR/L

DDUNR/L



S25-DDUNR/L
S32-DDUNR/L
S40-DDUNR/L

DSKNR/L



S25-DSKNR/L
S32-DSKNR/L
S40-DSKNR/L

DTFNR/L



S25-DTFNR/L
S32-DTFNR/L
S40-DTFNR/L

DWLNRL



S25-DWLNRL
S32-DWLNRL
S40-DWLNRL

Tornalama Takımları

SAW-MAN

SPBA/SMBBA



- Blade
100-2
100-3
100-4
100-5
100-6
125-2
125-3
125-4
125-5
125-6

- Block
0610
0710
0712
1010
1012
1212

Insert : SP

SPBA-S



(Stopper type)

- Blade
100-S-2 125-S-2
100-S-3 125-S-3
100-S-4 125-S-4
100-S-5 125-S-5
100-S-6 125-S-6

Insert : SP

SPHA-S

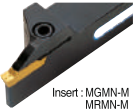


- Blade
062-S-3
075-S-3
075-S-4
075-S-5
100-S-3
100-S-4
100-S-5

Insert : SP

M.G.T

MGEHR/L



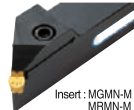
Insert : MGMN-M
MRMN-M
MRGN-A

MGIVR/L



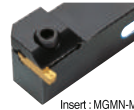
Insert : MGMN-M
MRMN-M
MRGN-A

MGEUR/L



Insert : MGMN-M
MRMN-M
MRGN-A

MGEVR/L



Insert : MGMN-M
MRMN-M

MGIUR/L



Insert : MGMN-M
MRMN-M
MRGN-A

İç çap kanal takımları

GFIK



1410-3
2116-3
3224-3
2116-5
3224-5
3224-8

Insert : GR

GFIP



1310-3
1712-3
2116-3
3224-3
2116-5
3224-5

Insert : BF, GW

IGH



0910-2
1110-2
1310-2

Insert : IG

NFTIH



Insert : NFTF, NFTG, NFFT

Dış çap kanal takımları

DBH



12-3
16-3
12-5
16-5
12-7
16-7

Insert : DB

EH



12-6
16-6

Insert : ESB

GFT



12-3
16-3
16-5
16-8

Insert : GW, BF

GH



12-3
16-3
12-4
16-4

Insert : GS, GO

TBH



12-3-23
12-3-33
12-3-43
16-3-23
16-3-33
16-3-43
12-4-23
12-4-33
12-4-45
16-4-23
16-4-33
16-4-45

Insert : TB

PH



12-3
16-3
12-4
16-4
12-5
16-5

Insert : POB

Alın kanal takımları

FGHH (FGVH)



12R-3
16R-3
12R-4
16R-4
12R-5
16R-5

Insert : FGD
FGM
FMM

MGFHR

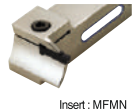


16-3-09/13-T03
16-3-11/15-T03
16-3-13/19-T03
16-3-17/27-T03
16-3-25/38-T03
16-4-24/47-T05
16-4-44/78-T05

Insert : MFMN
MGMN

Dış açma takımları

MGFVR



16-3-09/13-T03
16-3-11/15-T03
16-3-13/19-T03
16-4-17/23-T05

Insert : MFMN
MGMN

ERH



- Screw on system
: ERH -
- Clamp on system
: ERH -

Insert : ER/ERM

IRH



- Screw on system
: IRH -
- Clamp on system
: IRH -

Insert : IR/IRM





























































VTH



12
16
85

Insert : VETR





















































Tornalama Uçları

CCET 0602 09T3 1204 	CCGT AK AR 0602 09T3 1204 	CPMT-VF 0602 09T3 1204 	CCGT-HFP 0602 09T3 1204 	CNMM-HH 0602 09T3 1204 	CPGT-C05 0602 09T3 1204 
CCMT-C25 0602 09T3 1204 	CCMT-HMP 0602 09T3 1204 	CNG(M)G-HU 1204 1906 	CNMA 1204 1906 	DCMT-C25 0702 11T3 	DCMT-HMP 0702 11T3 
CNMG-B20 1204 1906 	CNMG-B25 1204 1906 	CNMG-GF 1204 1906 	CNMG-GM 1204 1906 	DNMG-B20 1104 1506 1906 	DNMG-B25 1104 1506 1906 
CNMG-GR 1204 1906 	CNMG-GS 1204 1906 	CNMG(M)-HA 1204 1906 	CNMG-HC 1204 1906 	DNMG-GR 1104 1506 1906 	DNMG-GS 1104 1506 1906 
CNMG-HR 1204 1906 	CNMG-HS 1204 1906 	CNMG-LW 1204 1906 	CNMG-VF 1204 1906 	DNMG-HR 1104 1506 1906 	DNMG-HS 1104 1506 1906 
CNMG-VG 1204 1906 	CNMG-VL 1204 1906 	CNMG-VM 1204 1906 	CNMG-VQ 1204 1906 	DNMG-VG 1104 1506 1906 	DNMG-VL 1104 1506 1906 
CNMG-VW 1204 1906 	CNMM-GH 1204 1906 	CNMM-VH 1204 1906 	CNMM-VT 1204 1906 	DNMG-VW 1204 1906 	DNMP 1204 1906 
CPGT 0602 09T3 1204 	DCGT AK AR 0702 11T3 	DNG(M)G-HU 1104 1506 1906 	DNMA 1104 1506 1906 	DNMG-GM 1104 1506 1906 	DNMG-GF 1104 1506 1906 
DNMG-HA 1104 1506 1906 	DNMG-HC 1104 1506 1906 	DNMG-LW 1104 1506 1906 	DNMG-VF 1104 1506 1906 	DNMG-VM 1104 1506 1906 	DNMG-VQ 1104 1506 1906 
KNUX 1604 	RCGT AK AR 1204 1906 	RCMX 0602 0603 1003 1204 	RNMG-B25 0602 0603 1003 1204 	RPMT 0602 0603 1003 1204 	SCGT AK AR 09T3 1204 














































Tornalama Uçları

SNGG SNPR/L* 0903 1204 1506 1906	SNGN 1903 1203 1504 1904	SNMA 1903 1203 1504 1904	SNMG-B20 1204 1504 1906	SNMG-B25 1204 1504 1906	SNMG-GF 1204
SNMG(M)-GM 1903 1203 1504 1904 SNMM	SNMG(M)-GR 1903 1203 1504 1904	SNMG-GS 1903 1203 1504 1904	SNMG(M)-HA 1903 1203 1504 1904	SNMG-HC 1903 1203 1504 1904	SNMG-HR 1903 1203 1504 1904
SNMG-HS 1903 1203 1504 1904	SNMG-VF 1903 1203 1504 1904	SNMG-VG 1903 1203 1504 1904	SNMG-VL 1903 1203 1504 1904	SNMG-VM 1903 1203 1504 1904	SNMG-VQ 1903 1203 1504 1904
SNMM-GH 1204 1506 1906 2507	SNMM-VH 1204 1506 1906 2507	SNMM-VT 1204 1506 1906 2507	SNMN 1204 1506 1906 2507	SPG(M)R-F 0903 1203 1504	SPG(M)R-M 0903 1203 1504
SPGA-(Z) 0602 0903	SPGN 0702 0903 1203 1504 1904	SPGT-C05 0903	SPGT 0903	SPMT-VF 0603 0903	TBGT 0601
TCGT AK 0902 1102 16T3 AR	TCGT-HFP 0902 1102 16T3	TCMT-C25 0902 1102 16T3	TCMT-HMP 0902 1102 16T3	TNG(M)G-HU 1604	TNGA TNPA* 0902 1103 1604 2204
TNGG TNPR/L* 1103 1603 2204	TNGN 1103 1603 2204	TNMA 1103 1604 2204	TNMG-B20 1103 1604 2204	TNMG-B25 1103 1604 2204	TNMG-GF 1103 1604 2204
TNMG(M)-GM 1103 1604 2204	TNMG(M)-GR 1103 1604 2204	TNMG-GS 1103 1604 2204	TNMG-HA 1103 1604 2204	TNMG-HC 0602 0803 1003 1204	TNMG-HR 0602 0803 1003 1204
TNMG-HS 0602 0803 1003 1204	TNMG-LW 0602 0803 1003 1204	TNMG-VF 0602 0803 1003 1204	TNMG-VG 0602 0803 1003 1204	TNMG-VL 0602 0803 1003 1204	TNMG(M)-VM 0602 0803 1003 1204















































Tornalama Uçları

SCGT-HFP 09T3 1204 	SCMT-C25 09T3 1204 	SCMT-HMP 09T3 1204 	SNG(M)G-HU 1204 	SNG(M)X 1204 	SNGA SNPA* 0903 1204 1506 1906 
TNMG-VQ 0602 0803 1003 1204 	TNMG-VW 0602 0803 1003 1204 	TNMN 0602 0803 1003 1204 	TNMX 0602 0803 1003 1204 	TOEH 0601 0902 1403 	TPG(M)R-F 1103 1603 
TPG(M)R-M 1103 1603 	TPGN 1103 1603 2204 	TPGT-C05 1103 1604 	TPGT-HFP 1103 1604 	TPGT 1103 1604 	TPMT-VF 1103 1604 
VBG(M) T 1604 	VBGT AK AR 1103 1604 	VBMT-HMP 1103 1604 	VCGT AK AR 1103 1604 	VCGT-HFP 1103 1604 	VCMT-HMP 1604 
VNGG-HA 1604 	VNMG-B20 1604 2204 	VNMG-GF 1604 	VNMG-GM 1604 	VNMG-HS 1604 	VNMG-VF 1604 
VNMG-VG 1604 	VNMG-VL 1604 	VNMG-VM 1604 	VNMG-VQ 1604 	VNMP 1604 	WBGT 020102 
WNMA 0604 0804 	WNM(M)G-B25 0604 0804 	WNMG-GM 0604 0804 	WNMG-GR 0604 0804 	WNMG-GS 0604 0804 	WNMG-HA 0604 0804 
WNMG-HC 0604 0804 	WNMG-HR 0604 0804 	WNMG-HS 0604 0804 	WNMG-LW 0604 0804 	WNMG-VF 0604 0804 	WNMG-VG 0604 0804 
WNMG-VQ 0604 0804 	WNMG-VW 0604 0804 	WNMG-VL 0604 0804 	WNMG-VM 0604 0804 		

Frezeleme Uçları

ADKA	ADLT	APFT-X28	APKT	APMT-MM	APKT-MA
150308R 150308TR 150308SR		150308R 150308TR 150308SR	1604PDR 1604PDSR 1604PDRTR	1604PDSR	0602PDSR-MM 0903PDSR-MM 1636PDSR-MM
					
APKT-X22, APFT-X22	APKT-X23, X24	APXT, APKT	CSN(CSNH)	CSP(H)	
1604PD(T)R 1604PDS(T)R	1604PD(T)R-X23 1604PD(F)R-X24	11T312R-MM 11T316R-MM 11T324R-MM 11T33DR-MA 11T318R-MA 11T318R-MM 1604PDSR-MM 1604PDSR-MM 160416R-MM 16042SR-MM	43M 43MT 43M 43MT	53R 53L 53R 53L	
					
EDCW	HECN	HPEN	HPEN-WC	LBH	LCF
1604ZDFR 1604ZDTR	(090408) (090408) (090408) (110412)	(090408) (090408) (090408) (110412)	(090408) (090408) (090408) (110412)	(090408) (110412)	LCF160-D90 LCF200-D90 LCF250-D90
					
LFH	LNE	LNM(E)X	LNM(E)X	LPMT	
LFH100 LFH120 LFH160 LFH200 LFH250 LFH300 LFH320	324-C1.0 324-R0.8	LNMX100605PNR-MM LNEK100605PNR-MM LNMX100605PNR-MM LNEK100605PNR-MM	LNMX151008PR-MM LNEK151008PR-MM LNMX151008PR-MM LNEK151008PR-MM	LPMT040203-DF	
					
LRH	MCMT	MPMT	NPET-DA	NPET-DR	NPMT-DM
LRH035-R015 LRH035-R031 LRH035-R062 LRH035-R092 LRH050-R015 LRH050-R125 LRH050-R015 LRH1000-R015 LRH050-R062 LRH1000-R031 LRH025-R125 LRH1000-R092 LRH025-R015 LRH1250-R031 LRH025-R062 LRH1250-R125 LRH0750-R125	080308EN 09T308EN	322 (090308) 432 (120408)	222408 252808 292208 334008 415008 516012	222408 252808 292208 334008 415008 516012	222408 252808 292208 334008 415008 516012
					
NPMT-DS	OFCN	OFCW	OFKR-MF, MM, MA	OFKT-MF, MM, MA	ONM(H)X-MF
222408 252808 292208 334008 415008 516012	07045N 0704FN 07048SN 07048FN	05T3SN 05T3FN 05T308FN	07045N-MF 07048SN-MF 07048SN-MM 0704FN-MA 0704EN-MA	05T35N-MF 05T38SN-MF 05T35N-MM 05T308SN-MM 05T3FN-MA 07045N-MM 0704FN-MA	080608-MF
					
ONM(H)X-MM	ONHX-W	PNEJ	PNEJ-C	RC	RDHW
080608-MM	080608-W	1223N 1223N 1230N 1230N 1240N 1245N 1250N 1255N 1255N 1260N 1265N 1270N 1275N 1285N	1223N-C03 1230N-C03 1240N-C05 1245N-C05 1250N-C05 1255N-C05 1260N-C05 1265N-C05 1270N-C05 1275N-C05 1275N-C05	RC16 RC20 RC25 RC30 RC32	0501M0-F-E.S 06T1M0-F-E.S 0702M0-F-E.S 0803M0-F-E.S 1605M0-F-E.S 2008M0-F-E.S
					
RDKT	REKR-MM	RPMM	SDAN, SDCN, SDKN	SDC(H)	SDCN
10T3M0-MM-MF-MA 1204M0-MM-MF-MA 1605M0-MM 2008M0-MM	170400-MM	120400	SDAN 42AEEN 42AEFN 42AESN SDCN 42AESN SDKN 53AEFN 53AETN 53AESN	42R 42L 42T 42TR 53R 53L 53TR 53TL	42R 42L 42M 42MT 42MT-RH 42MT-S20 53R 53L 53M 53MT 53MT-RH 53MT-S20
					
SDET-MA	SDKN-SM	SDKN-SU	SDKR-MX	SDKR-SM	SDMT
SDET09M402R-MA SDET130504R-MA	42AESN-SM 53AESN-SM	42AESN-SU 53AESN-SU	42AESN-MX 42AETN-MX 53AESN-MX 53AETN-MX	42AESN-SM 53AESN-SM	090308 (322)
					

Frezeleme Uçları

SDXN-FM  42AESN-FM 53AESN-FM	SDXR-FM  42AESN-FM 53AESN-FM	SDXT-MA  09M40SR-MA 130508R-MA	SDXT-MF  09M40SR-MF 09MAGSL-MF 130508R-MF	SDXT-MM  09M40SR-MM 09MAGSL-MM 130508R-MM 130538-MM	SECA  (1204AFSN) (1204AFN) (1204AFN) (1204AFN) (1504AFSN) (1504AFN)
SEAN, SECN, SEKN  (1203AFN) (1203AFN) (1203AFN) (1203AFN) (1203AFN-S20) (1504AFN) (1504AFN) (1504AFN)	SECR-MX, SEKR-MX(MF1)  42 (1203AFSN- MX) 42 (1203AFN- MX) 42 (1203AFSN- MF1) 43 (1203AFN- MX) 53 (1504AFSN- MX)	SEET-MA  0903AGFN-MA 14M4AGFN-MA	SEEW  0903AGTN 14M4AGTN	SEKN-SM  (1203AFSN-SM) (1504AFSN-SM)	
SEKN-SU  42(1203AFSN- SU) 53(1504AFSN- SU)	SEKR-SM  1203AFSN-SM 1504AFSN-SM	SEKR-X35  (1203AFSN-X35) (1203AFN-X35) (1204AFN-X35)	SEMNI  (1204AZ)	SEX(E)T-MF  0903AGSN-MF 0903AGSN-MF 14M4AGSN-MF 14M4AGSN-MF	
SEX(E)T-MM  0903AGSN-MM 0903AGSN-MM 14M4AGSN-MM 14M4AGSN-MM	SEXN-FM  (1203AFSN-FM) (1504AFSN-FM)	SEXR-FM  (1203AFSN-FM) (1504AFSN-FM)	SEXT-MR  0903AGSN-MR 14M4AGSN-MR	SFAN, SFCN  (1203EFF) (1203EFF) (1203ZFR)	
SFKN  (12T3AZTN) (12T3AZSN) (12T3AZFN) (12T3AZEN)	SNAN, SNCN, SNKN  (1204ENN) (1504ENN) (1204ENN) (1504ENN)	SNC-MW  43MW	SNC(MF)  SNC/MF 12060E(A)NN-MF 13020E(A)NN-MF SNC/MF 15070E(A)NN-MF 15070E(A)NN-MF	SNEF  43S 53S	
SNEX  10102NN 10102NN-CU1 12122NN-CU1 101010 101010-CU1 121212-CU1	SNM(E)X  1206ANN-MF 1206ANN-MM 1206ANN-MA	SPAN, SPCN, SPKN  (1203EDT(L)) (1204EDT(F)) (1504EDT(F)) (1504EDT(L)) (1504EDT(L)) (1203EDT(R)) (1504EDT(R)) (1203EDR-S20) (1504EDR-S20) (1504EDT(F)) (1204EDT(F)) (1504EDT(F)) (1904EDT(L))	SPC(H)  42R 42TR 53R 53TR	SPCR-MX, SPKR-MX  SPCR SPKR (1203EDSL) (1504EDSL)	
SPEN-WC  (120416-WC) (150412-WC) (150416-WC) (150420-WC) (190424-WC)	SPET-DA  050203 060204 070204	SPEX  (1203EDR-1) (1203EDL-1) (1504EDR-1) (1504EDL-1) (1904EDR-1) (1904EDL-1)	SPKN-SU  EDSR-SU EDSL-SU EDSL-SU	SPKN-SM  EDSR-SM EDSL-SM	
SPKR-SM  EDSR-SM EDSL-SM	SPMN  (120304) (120308) (120312) (120408) (120412) (150408) (150412) (190408) (190412)	SPMT  060304 (221) 120408 (432)	SPMT-DM  050203 060204 070204	SPMT-DS  050203 060204 070204	
SPMT-KC  110408-KC	SPXN-FM  EDSR-FM EDSL-FM	SPXR-FM  EDSR-FM EDSL-FM	TECN, TEKN, TEEN  TEEN 43R 43TR 43TR-S20 43R 43TR 43R 43R TEKN (TECN) 43TR	TECN, TEKN, TEEN-(Z)  32R 32TR 22R 22TR 32R 32TR 43R-Z 43TR-Z 43L-Z (TECN)KSTL-Z	

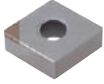
Frezeleme Uçları

TFAN, TFCN  TFAN (2203PFR) (2203PFL) TFCN (1603PFR) (1603PFL) (2203PFR) (2203PFL)	TPAN, TPCN  TPAN 22 (1103PPN) 22 (1033PPN) 32 (1603PPN) 32 (1603PPN) TPCN 1603PFR 1603PFR 1603PFR-RH 1603PFR-S20 2204PFR 2204PFR 2204PFR 2204PFR 2204PFR 2204PFR 2204PDR-RH 2204PDR-RH 2204PDR-S20	TPKN  (1103PPN) (1103PPTN) (1603PPN) (1603PPTN) (1603PPR) (1603PPT) (1603PDR) (1603PDR) (1603PDR) (2204PPTN) (2204PDR) (2204PDR) (2204PDR) (2204PDR) (2204PDR)	TPKN-SM  1603 2204	TPKN-SU  1603 2204	
TPKR-MX  32 PPR-MX 32 PDSN-MX 32 PDSR-MX 43 PDSR-MX 43 PPR-MX	TPKR-SM  1603 2204	TPXN-FM  1603 2204	TPXR-FM  1603 2204	VCKT-MA  220530N-MA	
WCMT-C20  (030208-C20) (040208-C20) (050208-C20) (06T308-C20) (080408-C20) (080412-C20)	WCMT-C21  (030204-C21) (040204-C21) (040208-C21) (080408-C21)	WCKT-DA  (030208-DA) (040208-DA) (050208-DA) (06T308-DA) (080408-DA)	WCMT-DS(P)  (030204-DSP) (040204-DSP) (050208-DSP) (06T308-DSP) (080408-DSP) (080412-DSP)	WDKT  080316ZDSR-MH 10T302ZDSR-MH 100302ZDSR-MH 150625ZDSR-MH	
WNMX  1305202N-MM	XCET-KC  310404ER-KC	ZCMT-ER  080308-ER 08T308-ER	ZDMT-R  08T2-R10 1103-R12.5 13T3-R16	ZPMT  1504PPSR	ZPMT-R  1604-P20 1604-P25 1604-P31.5
Tornalama için			Alüminyum için uçlar		
CCGT  AK 0602 09T3 1204	CNMG-HA  AK 1204	DCGT  AK 0702 11T3	RCGT  AK 0602 0803 1003 1204	SCGT  AK 09T3 1204	TCGT  AK 09T3 1204
VBGT  AK 1103 1604	VCGT  AK 1103 1604	APKT  1604PDR-MA 160416R-MA 160432R-MA	APKT  1604PDR-MA3	APXT  11T3PDR-MA 11T318R-MA	CDEW  CDEW1204RIL-XCF
OFKT  05T3FN-MA 0704FN-MA	OFKR  0704FN-MA	SDHT  43AEFN-MA	SDXT - MA  09M405R 150508R	SEET - MA  0903AGFN 14M4AGFN	SEHT  1204
Kanal açmak için					
MGRN-A  MGRN6N-A MGRN8N-A	MGRN-A5  MGRN6N-A5 MGRN8N-A5	MGRN-AM  MGRN6N-AM MGRN8N-AM	MGRN-AP  MGRN6N-AP MGRN8N-AP	MVGN  MGRN6N-A-R1.2 MGRN8N-A-R1.6	
Delme için					
NPET-DA  222408-DA 252808-DA 293208-DA 334008-DA 415008-DA 518012-DA	SPET-DA  050203-DA 060204-DA 070204-DA	WCKT  06T308-DA (32.52) 080408-DA (432)	MGMN  Genişlik 2.0 mm 3.0 mm 4.0 mm 5.0 mm	MGMR/L-PT  Genişlik 2.0 mm 3.0 mm 4.0 mm 5.0 mm	MRMN - M  Radyüs: 1.5R 1.5R 2R 2.5R 3R 4R

C.B.N Uçlar

CNMA

1204



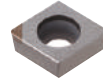
DNMA

1504



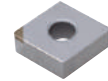
NU-CC(P)GW

0602
08T3



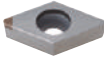
NU-CNMA

1204



NU-DCGW

0702
11T3



NU-TNMA

1604
2204



NU-VNMA

1604



VBMW

1604



P.C.D Uçlar

VNMX

1103
1604
2205



TPGW

0802
1102
1602



TBGN-B

0601



RPQ(T)W(-WF)

0801



SCMT

0702
09T3



MGRN

600800



CPMT

0601



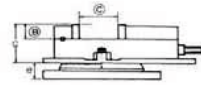
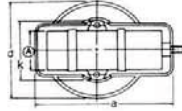
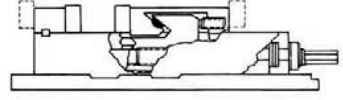
DCMT

0801



Hassas Tezgah Mengeneleri

VA - VD

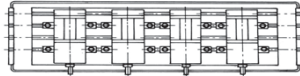
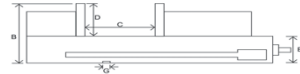
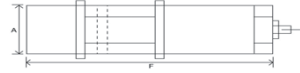


- Çeneler sulanmış ve taşlanmıştır.
- Çeneler değiştirilebilir.
- 360° Dönerli hassas tezgah mengersidir.

MODEL	A	C	B	a	k	c	d	e	kg	Kod
VD 675	160	190	49	445	295	121	296	47	42	1002 - 034
VA 5	135	112	36	359	193	101	246	32	30	1002 - 031
VA 6	155	143	46	422	209	118	288	39	42	1002 - 032
VA 8	210	220	60	553	295	145	355	45	80	1002 - 033

Hassas Tezgah Mengeneleri

VMC 4
VMC 6

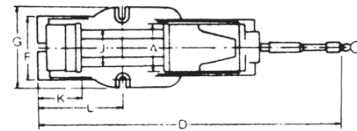
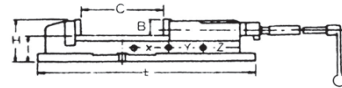


- Tüm yüzeyleri taşlanmış olması sebebi ile dik ve yatay pozisyonda bağlanabilir.
- Çeneleri serleştirilmiş ve taşlanmıştır.

MODEL	A	C	B	F	D	Kg	Kod
VMC 4	108	100	100	285	37	14	1002 - 185
VMC 6	156	142	120	368	46	31	1002 - 186

Pimli Hassas Tezgah Mengersi

VJ 600

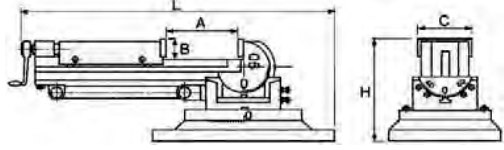


MODEL	Çene Geniřliđi (A)	Acma Kapasitesi (C)	B	D	E	F	G	H	I	J	K	Kg	Kod
VJ - 600	154	310	56	695	540	186	255	131	78	116	90	46	1002-052

3 Açılı Tezgaç Mengeneri

Mengener

VW



- Mengene 360° dönerlidir.
- Yatay ve dikey olarak 90° yatırılabilir.
- Sağ ve Sol'a 45° yatırılabilir.
- Hassas taşlanmış çeneler değiştirilebilir.

MODEL	Çene Genişliği (C)	Max. Açılım (A)	B	H	L	Max. Dik Pozisyon	Kg	Kod
VW - 3	80	85	31	157	370	385	17	1002 - 080
VW - 4	110	115	38	190	497	470	33	1002 - 081
VW - 5	135	150	40	210	580	590	50	1002 - 082

2 Açılı Tezgaç Mengeneri

VWT



- Mengene 360° dönerlidir.
- Yatay ve dikey olarak 90° yatırılabilir.
- Hassas taşlanmış çeneler değiştirilebilir.

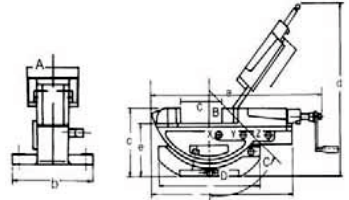
MODEL	Çene Genişliği	Max. Açılım	Çene Yüksekliği	Kg	Kod
VWT - 5	130	95	46	32	1002 - 090
VWT - 6A	160	125	51	47	1002 - 091

2 Açılı Hidrolik Tezgaç Mengeneri

VHT

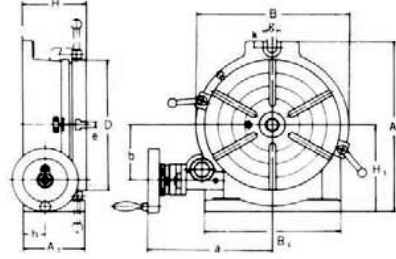


- Hidrolik mekanizması ve aşağı doğru sıkın hidrolik sistemi ile kuvvetli sıkma gerçekleştirir.
- Çeneleri taşlanmış ve sertleştirilmiştir.
- En büyük 2 açılı dereceli mengenedir.



MODEL	A	Açma Kapasitesi	B	D	a	b	c	d max	e	Kuvvet	Kg	Kod
VHT 4	110	170	36	14	500	165	191	450	155	2500Kgf	32	1002-020
VHT 6	154	300	54	14	800	225	250	580	197	4500Kgf	80	1002-021

Yatay Dikey Döner Tabla



- HV Tip döner tablalar yatay ve dikey kullanılabilir.
- Skala takibi ile dairesel olarak 360° dönebilir.
- Kol bir tur çevrildiğinde 4° dönmektedir.
- Kol 90 tur çevrildiğinde 360°'i tamamlamış olur.
- Dişli oranı 90:1

MODEL	D	A 1	H	A	B	e	Mors	H 1	Ayna Çapı	K g	KOD
HV 4	110	58	72	138	115	11	MT-2	85	100	7,5	1001-000
HV 6	150	78	80	205	160	11	MT-2	100	125	13	1001-001
HV 8	205	100	102	265	220	14	MT-3	135	160	28	1001-002
HV 10	254	106	109	321	280	14	MT-3	165	200	37	1001-003
HV 12	305	123	125	388	330	16	MT-4	195	250	63	1001-004
HV 14	353	123	125	445	380	16	MT-4	230	300	81	1001-005
HV 16	406	128	130	503	430	16	MT-4	255	400	122	1001-006

Döner Tabla Aksesuarları

Divizör Plakalar



Karşı Punta



KOD	UYGUN OLDUĞU MODEL	AĞIRLIK (kg)
DP-1	HV-4, HV-6, VU-100,150, VUT-6	1,4
DP-2	HV-8, VU-200	4,5
DP-3	HV -10,12,14,16, VUT-10-12	4,6
DP-4	CS -6,8	4,6
DP-5	VU -300	4,6

KOD	AYAR ARALIĞI		UYGUN OLDUĞU MODEL	BRÜT AĞIRLIK (kg)
	EN YÜKSEK	EN DÜŞÜK		
TS-1	108	80	HV-4, HV-6, VSI-4, VSI-5, BS-0, VUT-6, VU-100, VU-150	3,9
TS-2	145	115	BS-1, CC-6 CS-6, HV-8	5,5
TS-3	200	130	CS-8, HV-10, HV-12, CC-8, VUT-10, VUT-12, VU-200	8,1
TS-4	260	190	HV-14 HV-16	11,9

Döner Tabla - Divizör

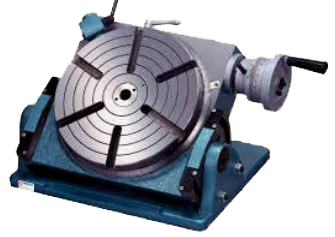
VU Tip Dereceli Döner Tablalar

VU 150
VU 200



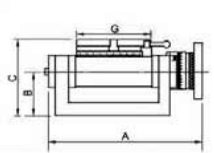
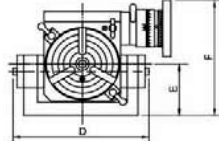
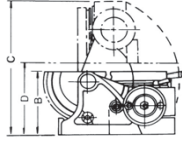
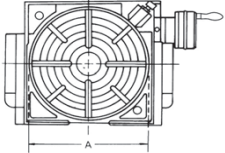
• VU 150 Ayna Çapı 160 mm'dir.

VU 300



• VU 200 Ayna Çapı 200 mm'dir.

• VU 300 Ayna Çapı 250 mm'dir.



• Tabla eğilim mesafesi 90° dir. • Dişli oranı 90:1

• Güçlü tip

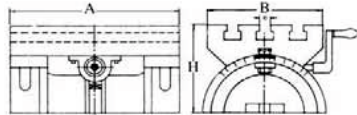
MODEL	A	B	C	D	E	F	G	Kg	Kod
VU 150	266	75	140	246	90	216	150	21	1001 - 012
VU 200	429	111	177	432	141	283	205	50	1001 - 013
VU 300	300	185	370	208				93	1001 - 010

Sinüs Dereceli Tablalar

VP



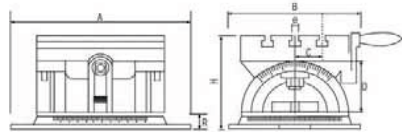
• Öne ve Arkaya ölçü cetveli ile 45° açı verilebilir.
• Kalıpcı freze ve CNC için uygundur.



VP - S (Dereceli)



• Öne ve Arkaya ölçü cetveli ile 45° açı verilebilir.
• Kalıpcı freze ve CNC için uygundur.
• 360° dönerlidir.



MODEL	TABLA			T Kanal	Kg	Kod
	A	B	H			
VP 180	185	132	95	13	7,5	1004 - 089
VP 250	255	180	136	116	22,5	1004 - 090
VP 380	380	255	181	16	69	1004 - 091
VP 600	600	300	202	16	100	1004 - 092

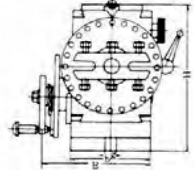
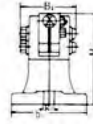
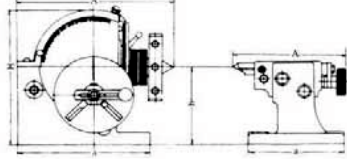
MODEL	TABLA			T KANAL			Kg	Kod
	A	B	H	e	C	D		
VP 250 S	243	230	177	10	50	90	40	1004 - 100
VP 380 S	360	270	233	12	68	127	76	1004 - 101

Üniversal Divizörler

BS Tip Üniversal Divizörler

BS 0 - BS 1

BS 0 J - BS 1 J



Standart Aksesuarlar



- BS Tip Üniversal divizördür
- İstenilen açıdan işleme yapılabilir.
- Dikey 10° Yatay 90° altında kitlelenebilir.

- Kol bir tur çevrildiğinde 9° döner.
- Kol 40 tur çevrildiğinde 360°'i tamamlamış olur
- Dişli oranı 40:1

BS 0 Ayna Çapı 100 mm'dir.
BS 1 Ayna Çapı 125 - 160 mm'dir.

MODEL	A	B	H	h	a	KOD
BS 0	189	140	173	100	160	1001-050
BS 1	293	156	220	128	207	1001-051

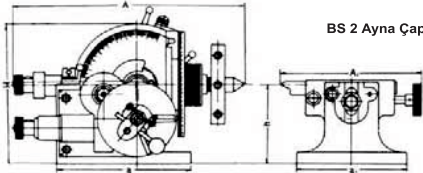
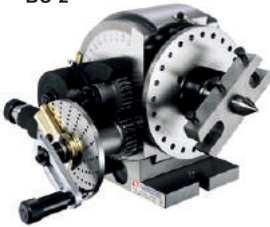
MODEL	A	B	H	h	a	KOD
BS 0 - J	189	140	173	100	160	1001-053
BS 1 - J	293	156	220	128	207	1001-054

BS 2 Tip Üniversal Divizörler

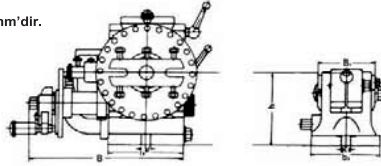
BS 2

Standart Aksesuarlar

BS 2 J



BS 2 Ayna Çapı 200 mm'dir.



- BS Tip Üniversal divizördür
- İstenilen açıdan işleme yapılabilir.
- Dikey 10° Yatay 90° altında kitlelenebilir.

- Kol bir tur çevrildiğinde 9° döner.
- Kol 40 tur çevrildiğinde 360°'i tamamlamış olur
- Dişli oranı 40:1

- Arka kısmındaki malafası sayesinde tezgahtan hareket alarak kompleksi çalışabilir. Dişli açılabilir.

MODEL	A	B	H	h	a	KOD
BS 2	365	272	236	132,7	213	1001-052

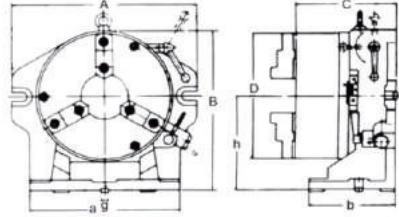
MODEL	A	B	H	h	a	KOD
BS 2 J	365	272	236	132,7	213	1001-055

Yatay Dikey Index Divizör Yatay - Dikey Index Divizörler

CC 6 - CC 8



- Bölüntülü 7 ad. plakaya sahiptir.
- 180 - 120 - 90 - 60 - 45 - 30 - 15°'lerde sabitlenerek çalışabilir.
- Çalışma şekli maneldir.
- Dişli oranı 90:1



CS 6 Ayna Çapı 160 mm'dir.
CS 8 Ayna Çapı 200 mm'dir.



MODEL	A	B	C	D	a	b	h	g	Delik Ölçüsü	kg	KOD
CC 6	260	218	156,2	167	220	130	123	16	36	36	1001 - 062
CC 8	312	257	173,3	200	258	148	155	16	63	51	1001 - 063

Yatay Dikey Süper Index Divizör

CS 6 CS 8

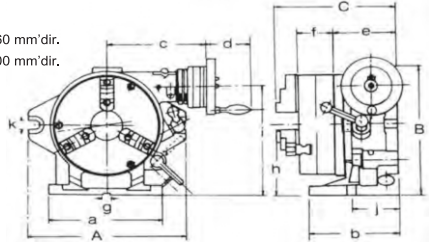


Standart Aksesuarlar



CS 6 Ayna Çapı 160 mm'dir.
CS 8 Ayna Çapı 200 mm'dir.

Özel Aksesuarlar



- Standart döner tabla aksesuarı sayesinde döner tabla olarak kullanılabilir.
- Bölüntülü 7 ad. plakaya sahiptir.
- 180 - 120 - 90 - 60 - 45 - 30 - 15°'lerde sabitlenerek çalışabilir.
- Dişli oranı 90:1

MODEL	A	B	C	a	b	c	d	e	f	g	h	i	j	k	kg	KOD
CS 6	250	235	221	220	150	184	82	112	66	16	123	186	80	18	50	1001 - 060
CS 8	310	285	243	225	160	201	82	125	75	16	155	232	90	18	79	1001 - 061

Problar ve Manyetik Seperatörler

Mekanik Proplar

VPS 301C
(Seramik Uçlu Prop)



VPS 301
(Düz Prop)



VPS 302
(Uçlu Prop)



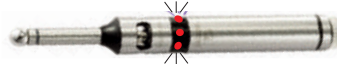
- Mekanik proplar takım merkezi ile iş parçası kenarı arasındaki mesafeyi bulmak için kullanılır.
- Kenar sıfırlama probu tutucuya monte edildikten sonra makina devri 400 - 600 Dev/dak'a getirilir. Makina çalıştırdıktan itibaren prop iş parçasına yaklaştırılır. Probu her iki gövdeside dikey olarak bir araya geldiğinde kenar sıfırlama tamamlanmış demektir.
- Fener mili ölçüm yüzeyinden 5mm mesafededir.

Işıklı ve Işıklı Sesli Proplar

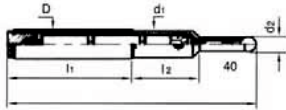
VPS 20 (Işıklı Prop)



VPS 20 B (Işıklı - Sesli Prop)



- Işıklı ve ışıklı sesli proplar iş parçası kenarı ve takım merkezi arasındaki mesafeyi ışık veya ses yardımı ile bulmak için kullanılır. **iş parçası manyetik yüklü olmamalıdır.**



MODEL	D	d1	d2	L	l1	l2	Gram	Kod
VPS 20	20	16	10	157	77	35	320	3402-003
VPS 20 B	20	18	10	160	79	41	350	3402-001

Manyetik Seperatör

VMS 9 B



VMS 7 B



MODEL	Boy x En x Yüks.	Kg	Kod
VMS 7 B	180 x 170 x 75	2,7	2015-450
VMS 9 B	239 x 220 x 65	4,0	2015-451

- Manyetik seperatörler plastik enjeksiyon makinalarının ham madde giriş bölümüne monte edilip, plastik içerisindeki metal parçaları üzerine çekerek hammaddeden ayırarak temizlenmesini sağlar.

Mandrenler - Döner Puntalar - Konik ve Kovanlar

MSK PORTO METABO

Elle Sıkma
Mandren (Supra)



Sıkma Kapasitesi (mm)	Bağlantı Tipi
0-10	B12
0-10	3/8-24 UNF
0-10	1/2-20 UNF
1-13	B16
1-13	3/8-24 UNF
1-13	1/2-20 UNF
1-16	B16
1-16	B18
1-16	1/2-20 UNF
1-16	5/8-16 UNF
5-20	B22

Anahtarlı
Mandren



Sıkma Kapasitesi (mm)	Bağlantı Tipi
1-16	B16
1-16	B18
1-20	B22
1-26	B24

Mandren
Konığı



MK DIN 228 - B	KONİK	MK DIN 228 - B	KONİK
MK1	B10	MK3	B16
MK1	B12	MK3	B18
MK2	B10	MK3	B22
MK2	B12	MK3	B24
MK2	B16	MK4	B16
MK2	B18	MK4	B18
MK3	B12	MK4	B22
		MK4	B24

Mors
Kovanı

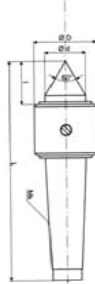


Dış Konik	İç Konik
MK2	MK1
MK3	MK1
MK3	MK2
MK4	MK1
MK4	MK2
MK4	MK3
MK5	MK1
MK5	MK2
MK5	MK3
MK5	MK4
MK6	MK5

Döner Punta



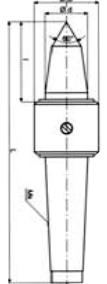
MK	D (mm)	d (mm)	L (mm)	l (mm)	Max. İş Parça Ağırlığı
MK1	34	17	114	21,5	40
MK2	36	22	125	25,5	340
MK3	47	30	162	32	400
MK4	55	35	194	37,5	1300
MK5	70	45	240	47	2000
MK6	90	60	318	62	4000



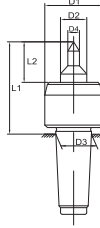
CNC Döner
Punta



MK	D (mm)	d (mm)	L (mm)	l (mm)	Max. İş Parça Ağırlığı
MK2	36	22	128	30	270
MK3	47	30	167	37	320
MK4	55	35	207,5	51	1000
MK5	69,5	45	259	66	1600

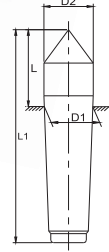


CNC Döner Punta



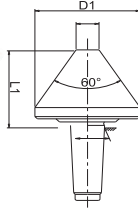
Konik	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	L1 (mm)	L2 (mm)	Parça Ağırlığı Kg
MK4	70	32	31.267	12	115	51	300
MK5	90	40	44.399	15	140	60	600

Sabit Punta



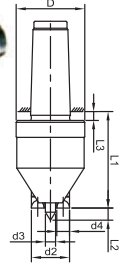
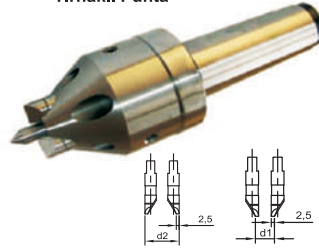
Konik	D1 (mm)	D2 (mm)	L (mm)	L1 (mm)
MK2	17.780	18	36	100
MK3	23.825	24.1	44	125
MK4	31.267	31.6	57.5	160
MK5	44.399	44.7	70.5	200
MK6	63.348	63.8	88	270

Boru Puntası



Konik	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	Devir d/d (max)	Parça Ağırlığı Kg
MK3	80	25	23.825	70	3000	300
MK3	100	32	23.825	85	2400	500
MK4	120	38	31.267	90	2400	500
MK5	120	38	44.399	90	2400	500
MK4	140	40	31.267	105	1800	600
MK5	140	40	44.399	105	1800	600
MK5	170	50	44.399	100	1500	1000

Tirnaklı Punta



3 ADET YEDEK TIRNAK İLE BİRLİKTE TESLİM EDİLİR.
MİL VE TIRNAKLARDA SERTLİK: 60-63 Hrc

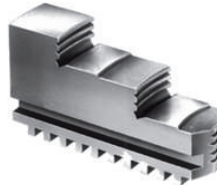
Konik	d1 (mm)	d2 (mm)	d3 (mm)	d4 (mm)	TORNALAMA ÇAP (mm)		D (mm)	L1 (mm)	L2 (mm)	L3 (mm)	TIRNAK SAYISI
					min	max					
MK3	15	30	8	10	16	60	54	80	7,5	5	3+3
MK4	15	30	8	10	16	60	54	80	7,5	5	3+3
MK5	15	30	8	10	16	60	54	80	7,5	5	3+3

Düz Yedek Ayak Takımı



EBAT	
80 x 3	80 x 4
100 x 3	100 x 4
125 x 3	125 x 4
160 x 3	160 x 4
200 x 3	200 x 4
250 x 3	250 x 4
315 x 3	315 x 4
400 x 3	400 x 4
500 x 3	500 x 4
630 x 3	630 x 4
800 x 3	800 x 4

Ters Yedek Ayak Takımı

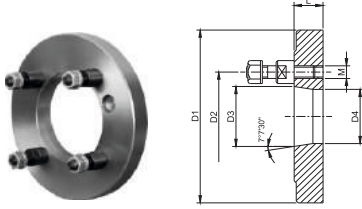


EBAT	
80 x 3	80 x 4
100 x 3	100 x 4
125 x 3	125 x 4
160 x 3	160 x 4
200 x 3	200 x 4
250 x 3	250 x 4
315 x 3	315 x 4
400 x 3	400 x 4
500 x 3	500 x 4
630 x 3	630 x 4
800 x 3	800 x 4

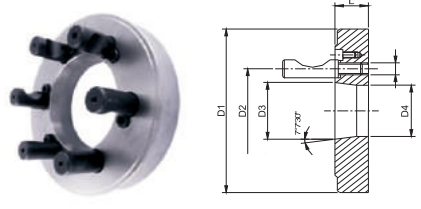
TOS
BİSON
KOMTAŞ

Ayna Flanşları

Ayna Flanşı



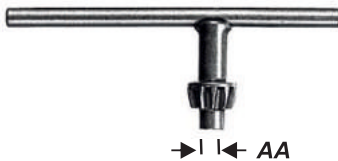
Camlock Ayna Flanşı



D1 (mm)	NO	D2 (mm)	D3 (mm)	D4 (mm)	L (mm)	M (mm)
160	4	85	63,525	60,6	25	M10
	5	104,8	82,563	79,4	25	M10
	6	133,4	106,375	103	25	M12
200	5	104,8	82,563	79,4	25	M10
	6	133,4	106,375	103	25	M12
	8	171,4	139,719	136	25	M16
250	5	104,8	82,563	79,4	30	M10
	6	133,4	106,375	103	30	M12
	8	171,4	139,719	136	30	M16
315	6	133,4	106,375	103	35	M12
	8	171,4	139,719	136	35	M16
	11	235	196,869	192,5	35	M20
400	6	133,4	106,375	103	36	M12
	8	171,4	139,719	136	36	M16
	11	235	196,869	192,5	36	M20
500	8	171,4	139,719	136	40	M16
	11	235	196,869	192,5	40	M20

D1 (mm)	NO	D2 (mm)	D3 (mm)	D4 (mm)	L (mm)	M (mm)
160	4	82,55	63,525	60,6	25	M12x1
	5	104,8	82,563	79,4	28	M12x1
	6	133,4	106,375	103	33	M16x1,5
200	5	104,8	82,563	79,4	28	M12x1
	6	133,4	106,375	103	33	M16x1,5
	8	171,4	139,719	136	38	M20x1,5
250	5	104,8	82,563	79,4	33	M12x1
	6	133,4	106,375	103	33	M16x1,5
	8	171,4	139,719	136	38	M20x1,5
315	6	133,4	106,375	103	35	M16x1,5
	8	171,4	139,719	136	38	M20x1,5
	11	235	196,869	192,5	44	M22x1,5
400	6	133,4	106,375	103	40	M16x1,5
	8	171,4	139,719	136	40	M20x1,5
	11	235	196,869	192,5	45	M22x1,5
500	8	171,4	139,719	136	45	M20x1,5
	11	235	196,869	192,5	45	M22x1,5

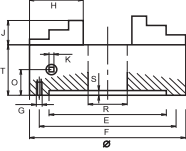
Universal Torna Aynası İçin Anahtar



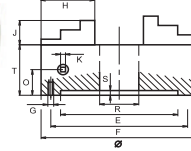
EBAT	AA	EBAT	AA
80	8	250	12
100	8	315	13
125	10	400	-
160	10	500	-
200	12	630	-
		800	-

Torna Aynaları

3 Ayaklı Aynalar



4 Ayaklı Aynalar



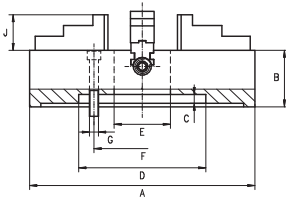
- 3 Ayaklı merkezi sıkımalı üniversal torna aynası
- Yüksek kaliteli döküm gövde
- Torna tezgahlarında, freze, divizör ve döner tablalarda kullanılır.

- 4 Ayaklı merkezi sıkımalı üniversal torna aynası
- Yüksek kaliteli döküm gövde
- Torna tezgahlarında, freze, divizör ve döner tablalarda kullanılır.

KOD	Ø	E H6	F±0,2	S	T	R	max d/d
TOS.IUS.	80	63	70	3	45	17	6000
TOS.IUS.	100	80	90	3	52	23	5300
TOS.IUS.	125	100	110	4	58	28	4500
TOS.IUS.	160	130	143	4	62	48	3500
TOS.IUS.	200	162	180	5	76	52	3000
TOS.IUS.	250	210	226	5	82	78	2800
TOS.IUS.	315	265	290	6	100	108	1800
TOS.IUS.	400	350	375	7	110	144	1300
TOS.IUS.	500	420	458	8	120	190	1100

KOD	Ø	E H6	F±0,2	S	T	R	max d/d
TOS.IUS.	80	63	70	3	45	17	6000
TOS.IUS.	100	80	90	3	52	23	5300
TOS.IUS.	125	100	110	4	58	28	4500
TOS.IUS.	160	130	143	4	62	48	3500
TOS.IUS.	200	162	180	5	76	52	3000
TOS.IUS.	250	210	226	5	82	78	2800
TOS.IUS.	315	265	290	6	100	108	1800
TOS.IUS.	400	350	375	7	110	144	1300
TOS.IUS.	500	420	458	8	120	190	1100

Kepekli Aynalar



- 4 Ayaklı her bir ayak bağımsız olarak ayarlanabilir
- Yüksek kaliteli döküm gövde
- Üniversal tornalar, freze, divizör ve döner tablalarda kullanılabilir.

ØA	160	200	250	320	400	500	630	800	1000
B	65	80	90	90	95	106	118	132	150
C	5	6	6	6	8	8	10	12	15
D H7	75	80	110	140	160	200	220	250	320
E	45	56	75	95	125	160	180	210	260
F	95	112	130	165	185	236	258	300	370
G	4XM10	4XM10	4XM12	4XM16	4XM16	4XM20	4XM20	8XM20	8XM120
J	24	27	30	44	48	55	62	70	80



RULMANLI TUTUCU

ÜRÜN KODU	AÇIKLAMA
BT40-SC20-100	20 Rulmanlı Tutucu
BT40-SC25-100	25 Rulmanlı Tutucu
BT40-SC32-105	32 Rulmanlı Tutucu
BT50-SC32-105	32 Rulmanlı Tutucu



BT40 ER25 PENS BAŞLIĞI

ÜRÜN KODU	D	L
BT40-ER25-70	42	70
BT40-ER25-100	42	100
BT40-ER25-150	42	150



BT40 ER16 PENS BAŞLIĞI

ÜRÜN KODU	D	L
BT40-ER16-70	28	70
BT40-ER16-100	28	100
BT40-ER16-150	28	150



BT40 ER32 PENS BAŞLIĞI

ÜRÜN KODU	D	L
BT40-ER32-80	50	80
BT40-ER32-100	50	100
BT40-ER32-150	50	150



BT40 ER20 PENS BAŞLIĞI

ÜRÜN KODU	D	L
BT40-ER20-70	34	70
BT40-ER20-100	34	100
BT40-ER20-150	34	150



BT50 ER32 PENS BAŞLIĞI

ÜRÜN KODU	D	L
BT50-ER32-100	50	100
BT50-ER32-150	50	150
BT50-ER32-200	50	200



BT50 TARAMA BAŞLIĞI

ÜRÜN KODU	D	L
BT50FMB22-105	48	105
BT50-FMB22-150	48	150
BT50-FMB27-105	60	105
BT50-FMB27-150	60	150



BT40 ER40 PENS BAŞLIĞI

ÜRÜN KODU	D	L
BT40-ER40-80	63	80
BT40-ER40-100	63	100
BT40-ER40-150	63	150



VELDON TUTUCULARI

ÜRÜN KODU	D1	D	L
BT40 SLN20	20	50	75
BT40 SLN25	25	65	100
BT40 SLN32	32	72	90
BT40 SLN40	40	80	105
BT50 SLN20	20	50	105
BT50 SLN25	25	65	105
BT50 SLN32	32	72	105
BT50 SLN40	40	80	105



KAMALI MORS ADAPTÖRLERİ

ÜRÜN KODU	D	L
BT40 MK1	25	50
BT40 MK2	32	50
BT40 MK3	40	70
BT40 MK4	48	90
BT50 MK3	40	120
BT50 MK4	48	95

BT40 VİDALI TAKIM TUTUCULARI



ÜRÜN KODU	M	l1
BT40-AMD122-080	6	80
BT40-AMD122-100	6	100
BT40-AMD162-080	8	80
BT40-AMD162-100	8	100
BT40-AMD202-080	10	80
BT40-AMD202-100	10	100
BT40-AMD253-080	12	80
BT40-AMD253-100	12	100
BT40-AMD354-080	16	80
BT40-AMD354-100	16	100
BT50-AMD202-100	10	100
BT50-AMD202-120	10	120
BT50-AMD253-100	12	100
BT50-AMD253-120	12	120
BT50-AMD354-100	16	100
BT50-AMD354-120	16	120



BT40 TARAMA BAŞLIĞI TUTUCUSU

ÜRÜN KODU	D	D1	L
BT40-FMB16-60	16	32	60
BT40-FMB16-100	16	32	100
BT40-FMB22-90	22	48	90
BT40-FMB22-125	22	48	125
BT40-FMB27-60	27	60	60
BT40-FMB27-105	27	60	105
BT40-FMB32-60	32	60	60
BT40-FMB32-105	32	60	105



BT40 MANDREN TUTUCUSU

ÜRÜN KODU	D	L
BT40 B12	B12	45
BT40 B16	B16	45
BT40 B18	B18	45

SİLİNDİRİK ŞAFTLI PENS BAŞLIĞI



ÜRÜN KODU	L	D
C8X ER8M-55	55	12
C10X ER8M-100	100	12
C10X ER8M-150	150	12
C10X ER8M-180	180	12
C12X ER8M-55	55	12
C12X ER8M-120	120	12
C12X ER8M-180	180	12
C12X ER11M-80	80	16
C16X ER11M-50	50	16
C16X ER11M-100	100	16
C16X ER11M-140	140	16
C16X ER16M-80	80	22
C20X ER16M-100	125	22
C20X ER16M-140	140	22
C20X ER16M-160	160	22
C20X ER20M-60	60	28
C20X ER20M-100	100	28
C20X ER20M-120	120	28
C20X ER20M-150	150	28
C20X ER20M-180	180	28
C25X ER20M-140	140	28
C20X ER25M-100	100	35



HASSAS TUTUCU (30.000 Devir)

ÜRÜN KODU	D	L
BT40-ASK10-080	27	80
BT40-ASK10-100	27	100
BT40-ASK10-120	27	120
BT40-ASK10-150	27	150
BT40-ASK16-080	40	80
BT40-ASK16-100	40	100
BT40-ASK16-120	40	120
BT40-ASK16-150	40	150



PULSTUD

ÜRÜN KODU	M	D	D1	L
BT40 PULSTUD	16	23	15	60
BT40 SU DELİKLİ	16	23	15	60
SK40 PULSTUD	16	23	19	54
SK40 SU DELİKLİ	16	23	19	54
MAZAK PULSTUD	16	22	19	44,5
BT50 PULSTUD	24	38	23	85
Bt50 SU DELİKLİ	24	38	23	85



ER PENSLER

ÜRÜN KODU	D	L	TUTMA ARALIĞI
FP ER8	8	13	1-5 mm
FP ER11	11.5	18	1-7 mm
FP ER16	17	27.5	1-10 mm
FP ER20	21	31.5	1-13 mm
FP ER25	26	34	2-16 mm
FP ER32	33	40	1-25 mm
FP ER40	41	46	2-32 mm



HASSAS SK PENSLER

ÜRÜN KODU	TUTMA ARALIĞI
SK6	3-6 mm
Sk10	3-10 mm
Sk16	3-16 mm



EKO PAKET PENS TAKIMLARI

ÜRÜN KODU	PENS ADEDİ
PT ER11-7	7'li
PT ER16-8	8'li
PT ER20-10	10'lu
PT ER32-6	6'li
PT ER32-11	11'li
PT ER40-7	7'li
PT ER40-15	15'li

ER PENS TAKIMLARI


ÜRÜN KODU	AÇIKLAMA
PT ER8-9	ER 8-9 PARÇA SET
PT ER11-11	ER 11-11 PARÇA SET
PT ER16-10	ER 16-10 PARÇA SET
PT ER20-12	ER 20-12 PARÇA SET
PT ER25-15	ER 25-15 PARÇA SET
PT ER32-18	ER 32-18 PARÇA SET
PT ER40-23	ER 40-23 PARÇA SET


OZ PENS TAKIMLARI

ÜRÜN KODU	PENS ADEDİ
PT OZ25-7	7'li
PT OZ25-15	15'li


RULMANLI TUTUCU PENS TAKIMI

ÜRÜN KODU	TUTMA ARALIĞI	PENS ADEDİ
PT SC20	3-10	9
PT SC25	3-25	11
PT SC32	3-32	12
PT SC32 SET	PENS + TUTUCU + ANAHTAR	7


PENS KAPAKLARI

ÜRÜN KODU	D
PK ER8M	12
PK ER11M	16
PK ER16M	22
PK ER20M	28
PK ER16A	28
PK ER20A	34
PK SK6	19
PK SK10	27
PK SK16	40



PENS KAPAKLARI

ÜRÜN KODU	D
PK ER25UM	42
PK ER32UM	50
PK ER40UM	63
PK OZ25	60

MİNİ TİP PENS ANAHTARI



ÜRÜN KODU	AÇIKLAMA
PA ER8M	ER 8 MİNİ ANAHTAR
PA ER11M	ER 11 MİNİ ANAHTAR
PA ER16M	ER 16 MİNİ ANAHTAR
PA ER20M	ER 20 MİNİ ANAHTAR
PA ER25M	ER 25 MİNİ ANAHTAR

ALTI KÖŞE PENS ANAHTARI



ÜRÜN KODU	AÇIKLAMA
PA ER11A	ER11 A ANAHTAR
PA ER16A	ER16 A ANAHTAR
PA ER20A	ER20 A ANAHTAR

Y ANAHTARLAR



ÜRÜN KODU	AÇIKLAMA
PA ER25Y	ER25 Y ANAHTAR
PA ER32Y	ER32 Y ANAHTAR
PA ER40Y	ER40 Y ANAHTAR

AY ANAHTARLAR



ÜRÜN KODU	AÇIKLAMA
PA ER25AY	ER25 AY ANAHTAR
PA ER32AY	ER32 AY ANAHTAR
PA ER40AY	ER40 AY ANAHTAR
PA OZ25AY	OZ25 AY ANAHTAR



SK TİPİ PENS ANAHTARLARI

ÜRÜN KODU	AÇIKLAMA
PA SK6	SK6 ANAHTAR
PA SK10	SK10 ANAHTAR
PA SK16	SK16 ANAHTAR



PARALEL SET

ÜRÜN KODU	AÇIKLAMA
PS 14x5	5 mm genişlik 14 çift paralel set
PS 14x10	10 mm genişlik 14 çift paralel set

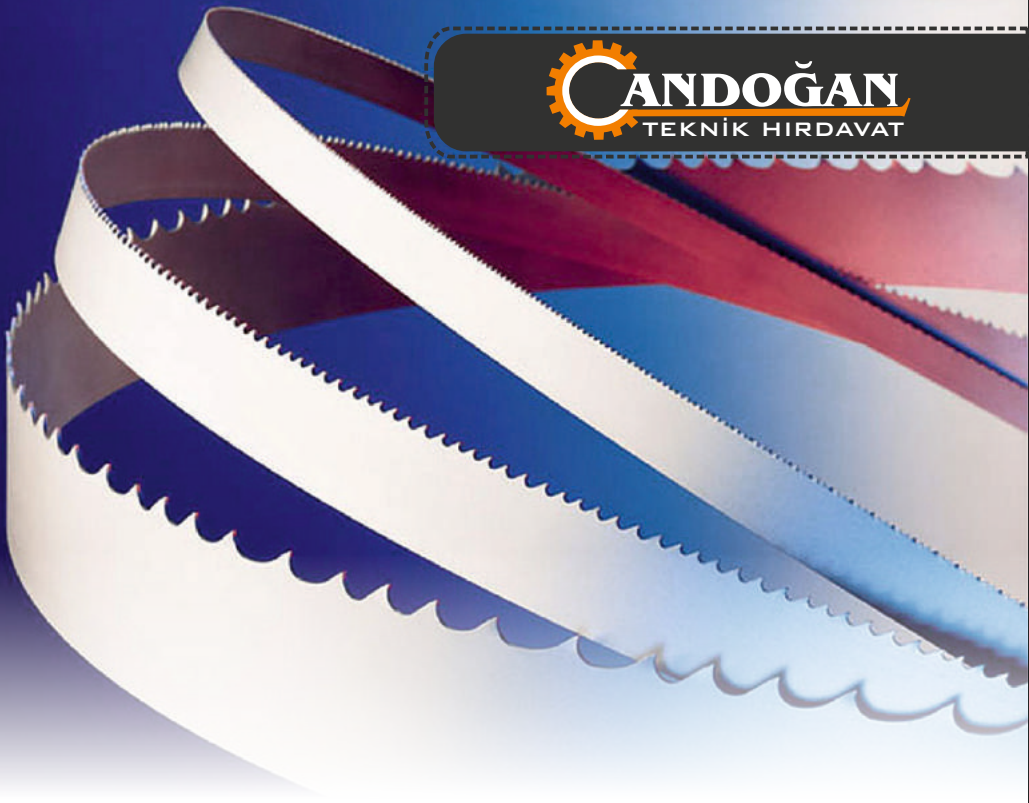
ŞERİT TESTERELER DEKUPAJ BI-METAL M42

Testere Genişlik & Kalınlık	Dış sayısı (1 inc'te)
6x0.65 mm	6
	10
	14
	10/14
6x0.9 mm	10
	14
	10/14
10x0.65 mm	8
	10
	14
	10/14
10x0.9 mm	10
	10/14
12.5x0.65 mm	6
	10
	14
	6/10
	8/12
	10/14
12.5x0.9 mm	10
	14
	6/10
	10/14
16x0.9 mm	6/10
20x0.9 mm	3/4
	4/6
	5/8
	6/10
	8/12
	10/14

ŞERİT TESTERE BI-METAL M42

Testere Genişlik & Kalınlık	Dış sayısı (1 inc'te)
27x0.9 mm	2/3
	3/4
	4/6
	5/7
	5/8
	6/10
	8/12
10/14	
34x1.1 mm	3H"
	4H"
	4
	6
	2/3
	3/4
	4/6
5/8	
41x1.3 mm	1.4/2.5
	2/3
	3/4
	4/6
54x1.6 mm	5/8
	1.3H"
	1.4/2.5
	2/3
3/4	



**BI-METAL ŞERİT TESTERE DİŞ SEÇİM TABLOSU**
(Malzeme çap ve et kalınlığına göre)

Dolu Malzeme ø	Diş
2-5 mm	14-10/14
6-12 mm	10-8/12
13-20 mm	8-6/10
20-30 mm	6-5/8
30-50 mm	4/6
50-90 mm	4-3/4
90-120 mm	3/4
120 -200 mm	2/3
200-400 mm	13.-14/2.5

Boru profil vs.. et kalınlığı	Diş
1.5-3 mm	14-10/14
3-5 mm	10-8/12
5-7 mm	6-/10
7-10 mm	5/8
10-20 mm	4/6
20-40 mm	3/4
40+ mm	2/3

Düz Kısa - 4 Ağzı

600
Nano

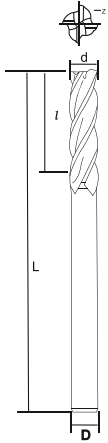
HRC
55

35°

TISIN

● Micro Grain Carbide

● Wc=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0,6µm



KOD	ÖLÇÜ d	Helis Uzunluk	Toplam Uzunluk	Şaft Ölçüsü	Ağız Sayısı
RP-MSE 0104 T	1	3	50	4	4
RP-MSE 0154 T	1.5	4	50	4	4
RP-MSE 0204 T	2	6	50	4	4
RP-MSE 0254 T	2.5	8	50	4	4
RP-SSE 0304 T	3	8	50	3	4
RP-MSE 0304 T	3	8	50	4	4
RP-MSE 0354 T	3.5	10	50	4	4
RP-MSE 0404 T	4	11	50	4	4
RP-SE 0104 T	1	3	50	6	4
RP-SE 0154 T	1.5	4	50	6	4
RP-SE 0204 T	2	6	50	6	4
RP-SE 0254 T	2.5	8	50	6	4
RP-SE 0304 T	3	8	50	6	4
RP-SE 0354 T	3.5	10	50	6	4
RP-SE 0404 T	4	11	50	6	4
RP-SE 0504 T	5	13	50	6	4
RP-SE 0604 T	6	16	50	6	4
RP-SE 0704 T	7	16	60	8	4
RP-SE 0804 T	8	20	60	8	4
RP-SE 0904 T	9	20	75	10	4
RP-SE 1004 T	10	30	75	10	4
RP-SE 1104 T	11	30	75	12	4
RP-SE 1204 T	12	32	75	12	4
RP-SE 1404 T	14	40	100	16	4
RP-SE 1604 T	16	40	100	16	4
RP-SE 1804 T	18	45	100	20	4
RP-SE 2004 T	20	45	100	20	4

600
Nano

HRC
≥ 55

35°

TISIN

Küre Kısa - 2 Ağız

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0,6µm



KOD	ÖLÇÜ d	Helis Uzunluk	Toplam Uzunluk	Saft Ölçüsü	Köşe Radyus	Ağız Sayısı
RP- MSB0102 T	1	2	50	4	0.5	2
RP- MSB0152 T	1.5	3	50	4	0.75	2
RP- MSB0202 T	2	4	50	4	1	2
RP- MSB0252 T	2.5	5	50	4	1.25	2
RP- SSB0302 T	3	6	50	3	1.5	2
RP- MSB0302 T	3	6	50	4	1.5	2
RP- SSB0352 T	3.5	7	50	4	1.75	2
RP- MSB0402 T	4	7	50	4	2	2
RP- SB0102 T	1	2	50	6	0.5	2
RP- SB0152 T	1.5	3	50	6	0.75	2
RP- SB0202 T	2	4	50	6	1	2
RP- SB0252 T	2.5	5	50	6	1.25	2
RP- SB0302 T	3	6	50	6	1.5	2
RP- SB0352 T	3.5	7	50	6	1.75	2
RP- SB0402 T	4	8	50	6	2	2
RP- SB0502 T	5	10	50	6	2.5	2
RP- SB0602 T	6	12	50	6	3	2
RP- SB0702 T	7	14	50	8	3.5	2
RP- SB0802 T	8	16	60	8	4	2
RP- SB0902 T	9	18	75	10	4.5	2
RP- SB1002 T	10	20	75	10	5	2
RP- SB1102 T	11	22	75	12	5.5	2
RP- SB1202 T	12	24	75	12	6	2
RP- SB1402 T	14	28	100	16	7	2
RP- SB1602 T	16	32	100	16	8	2
RP- SB1802 T	18	36	100	20	9	2
RP- SB2002 T	20	40	100	20	10	2

Elmas Rayba

600
Nano

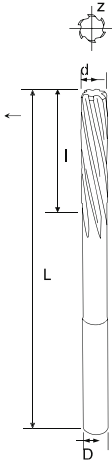
HRC
55

35°

TISIN

● Micro Grain Carbide

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



KOD	ÖLÇÜ d	Helis Uzunluk	Toplam Uzunluk
RP-RE010	1.0	6	34
RP-RE015	1.5	8	40
RP-RE020	2.0	11	49
RP-RE025	2.5	14	57
RP-RE030	3.0	15	61
RP-RE035	3.5	18	70
RP-RE040	4.0	19	75
RP-RE045	4.5	21	80
RP-RE050	5.0	23	86
RP-RE055	5.5	26	93
RP-RE060	6.0	26	93
RP-RE065	6.5	28	101
RP-RE070	7.0	31	109
RP-RE075	7.5	31	109
RP-RE080	8.0	33	117
RP-RE085	8.5	33	117
RP-RE090	9.0	36	125
RP-RE095	9.5	36	125
RP-RE100	10.0	38	133
RP-RE105	10.5	38	133
RP-RE110	11.0	41	142
RP-RE115	11.5	41	142
RP-RE120	12.0	44	151
RP-RE125	12.5	44	151
RP-RE130	13.0	44	151
RP-RE135	13.5	47	160
RP-RE140	14.0	47	160
RP-RE145	14.5	50	162
RP-RE150	15.0	50	162

600
 Nano

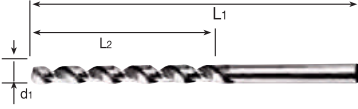
HRC
 > 55

35°
TISIN
ELMAS MATKAP


ÜRÜN	ÖLÇÜ	HELİS	T.BOY
DRILL DIN1897	1	6	26
DRILL DIN1897	1,5	9	32
DRILL DIN1897	2	12	38
DRILL DIN1897	2,5	14	43
DRILL DIN1897	3	16	46
DRILL DIN1897	3,2	18	49
DRILL DIN1897	3,5	20	52
DRILL DIN1897	3,8	22	55
DRILL DIN1897	4	22	55
DRILL DIN1897	4,2	22	55
DRILL DIN1897	4,3	22	55
DRILL DIN1897	4,5	24	58
DRILL DIN1897	5	26	62
DRILL DIN1897	5,2	26	62
DRILL DIN1897	5,5	28	66
DRILL DIN1897	5,8	28	66
DRILL DIN1897	6	28	66
DRILL DIN1897	6,2	28	66
DRILL DIN1897	6,5	31	70
DRILL DIN1897	6,8	34	74
DRILL DIN1897	7	34	74
DRILL DIN1897	7,5	34	74
DRILL DIN1897	7,8	37	79
DRILL DIN1897	8	37	79
DRILL DIN1897	8,5	37	79
DRILL DIN1897	9	40	84
DRILL DIN1897	9,5	40	84
DRILL DIN1897	10	43	89
DRILL DIN1897	10,2	43	89
DRILL DIN1897	10,5	43	89
DRILL DIN1897	11	47	95
DRILL DIN1897	12	51	102
DRILL DIN1897	13	51	102
DRILL DIN1897	14	54	107
DRILL DIN1897	15	56	111
DRILL DIN1897	16	56	115
DRILL DIN1897	18	62	123
DRILL DIN1897	13,5	54	107
DRILL DIN1897	12,5	51	102
ÜRÜN	ÖLÇÜ	HELİS	T.BOY
DIN 338	2	24	49
DIN 338	2,5	30	57
DIN 338	3	33	61
DIN 338	3,5	39	70
DIN 338	4	43	75
DIN 338	4,5	47	80
DIN 338	5	52	86
DIN 338	5,5	57	93
DIN 338	6	57	93
DIN 338	6,5	63	101
DIN 338	7	69	109
DIN 338	7,5	69	109
DIN 338	8	75	117
DIN 338	8,5	75	117
DIN 338	9	81	125
DIN 338	9,5	81	125
DIN 338	10	87	133
DIN 338	10,5	87	133
DIN 338	11	94	142
DIN 338	11,5	94	142
DIN 338	12	101	151
DIN 338	12,5	101	151
DIN 338	13	101	151
DIN 338	14	108	160

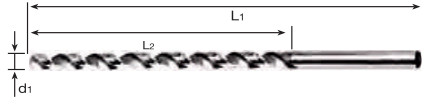


HSS Matkap uçları (Uzun - Kısa)



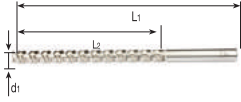
DIN 338 HSS MATKAP

d1 (mm)	L1	L2
0.4	20	5
0.5	22	6
0.6	24	7
0.7	28	9
0.8	30	10
0.9	32	11
1.0	34	12
1.1	36	14
1.2 - 1.3	38	16
1.4 - 1.5	40	18
1.6 - 1.7	43	20
1.8 - 1.9	46	22
2.0 - 2.1	49	24
2.2 - 2.3	53	27
2.4 - 2.6	57	30
2.7 - 3.0	61	33
3.1 - 3.3	65	36
3.4 - 3.7	70	39
3.8 - 4.2	75	43
4.3 - 4.7	80	47
4.8 - 5.3	86	52
5.4 - 6.0	93	57
6.1 - 6.7	101	63
6.8 - 7.5	109	69
7.6 - 8.5	117	75
8.6 - 9.5	125	81
9.6 - 10.6	133	87
10.7 - 11.8	142	94
11.9 - 13.2	151	101
13.3 - 14.0	160	108
14.1 - 15.0	169	114
15.1 - 16.0	178	120
16.5 - 17.0	184	125
17.5 - 18.0	191	130
18.5 - 19.0	198	135
19.5 - 20.0	205	140
20.5 - 21.0	213	145
21.5 - 22.0	221	150
22.5 - 23.0	229	155
23.5	229	155
24.0	236	160
24.5 - 25.0	236	160



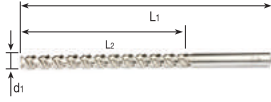
DIN 340 HSS UZUN MATKAP

d1 (mm)	L1	L2
1.0	56	33
1.1 - 1.4	65	41
1.5	70	45
1.6 - 1.9	80	53
2.0	85	56
2.1 - 2.4	95	62
2.5	95	62
2.6 - 2.9	100	66
3.0	100	66
3.1 - 3.4	112	73
3.5	112	73
3.6 - 3.9	119	78
4.0	119	78
4.1 - 4.4	119	78
4.5	126	82
4.6 - 4.9	132	87
5.0	132	87
5.1 - 5.4	139	91
5.5	139	91
5.6 - 5.9	139	91
6.0	139	91
6.1 - 6.4	148	97
6.5	148	97
6.6 - 6.9	156	102
7.0	156	102
7.1 - 7.4	156	102
7.5	156	102
7.6 - 7.9	165	109
8.0	165	109
8.1 - 8.4	165	109
8.5	165	109
8.6 - 8.9	175	115
9.0	175	115
9.1 - 9.4	175	115
9.5	175	115
9.6 - 9.9	184	121
10.0	184	121
10.1 - 10.4	184	121
10.5	184	121
11.0	195	128
11.5	195	128
12.0	205	134
12.5	205	134
13.0	205	134
13.5	214	140
14.0	214	140
14.5	220	144
15.0	220	144
15.5	227	149
16.0	227	149
16.5	235	154
17.0	235	154
17.5	241	158
18.0	241	158
18.5	247	162
19.0	247	162
19.5	254	166
20.0	254	166



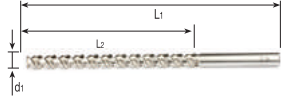
DIN 1869/1 HSS EKSTRA UZUN MATKAP

d1 (mm)	L1	L2
2.0	125	85
2.5	140	95
3.0	150	100
3.5	165	115
4.0	175	120
4.5	185	125
5.0	195	135
5.5	205	140
6.0	205	140
6.5	215	150
7.0	225	155
7.5	225	155
8.0	240	165
8.5	240	165
9.0	250	175
9.5	250	175
10.0	265	185
10.5	265	185
11.0	280	195
11.5	280	195
12.0	295	205
12.5	295	205
13.0	295	205



DIN 1869/2 HSS EKSTRA UZUN MATKAP

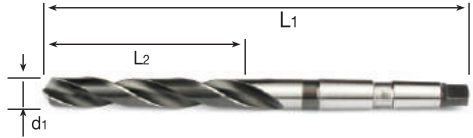
d1 (mm)	L1	L2
3.0	190	130
3.5	210	145
4.0	220	150
4.5	235	160
5.0	245	170
5.5	260	180
6.0	260	180
6.5	275	190
7.0	290	200
7.5	290	200
8.0	305	210
8.5	305	210
9.0	320	220
9.5	320	220
10.0	340	235
10.5	340	235
11.0	365	250
11.5	365	250
12.0	375	260
12.5	375	260
13.0	375	260



DIN 1869/3 HSS EKSTRA UZUN MATKAP

d1 (mm)	L1	L2
3.5	265	180
4.0	280	190
4.5	295	200
5.0	315	210
5.5	330	225
6.0	330	225
6.5	350	235
7.0	370	250
7.5	370	250
8.0	390	265
8.5	390	265
9.0	410	280
9.5	410	280
10.0	430	295
10.5	430	295
11.0	455	310
11.5	455	310
12.0	480	330
12.5	480	330
13.0	480	330

**DIN 345
HSS MORS KÖNİK SAPLI
MATKAP UCU**



d1 (mm)	L1	L2
8.0	156	75
8.5	156	75
9.0	162	81
9.5	162	81
10.0	168	87
10.5	168	87
11.0	175	94
11.5	175	94
12.0	182	101
12.5	182	101
13.0	182	101
13.5	189	108
14.0	189	108
14.5	212	114
15.0	212	114
15.5	218	120
16.0	218	120
16.5	223	125
17.0	223	125
17.5	228	130
18.0	228	130
18.5	233	135
19.0	233	135
19.5	238	140
20.0	238	140

d1 (mm)	L1	L2
20.5	243	145
21.0	243	145
21.5	248	150
22.0	248	150
22.5	253	155
23.0	253	155
23.5	276	155
24.0	281	160
24.5	281	160
25.0	281	160
25.5	286	165
26.0	286	165
26.5	286	165
27.0	291	170
27.5	291	170
28.0	291	170
28.5	296	175
29.0	296	175
29.5	296	175
30.0	296	175
30.5	301	180
31.0	301	180
31.5	301	180
32.0	334	185
32.5	334	185

d1 (mm)	L1	L2
33.0	334	185
33.5	334	185
34.0	339	190
34.5	339	190
35.0	339	190
35.5	339	190
36.0	344	195
36.5	344	195
37.0	344	195
37.5	344	195
38.0	349	200
38.5	349	200
39.0	349	200
39.5	349	200
40.0	349	205
41.0	354	205
42.0	354	205
43.0	359	210
44.0	359	210
45.0	359	210
46.0	364	215
47.0	364	215
48.0	369	220
49.0	369	220
50.0	369	220

Parmak Freze Hss

KISA PARMAK FREZE DIN 844 (1402)

Dk10	I	L	h d ₆	Z	≈λ
1,5	7	51	6	4	40°
2	7	51	6	4	40°
2,5	8	52	6	4	40°
3	8	52	6	4	30°
3,5	10	54	6	4	40°
4	11	55	6	4	30°
4,5	11	55	6	4	30°
5	13	57	6	4	30°
6	13	57	6	4	30°
7	16	66	6	4	30°
8	19	69	10	4	30°
9	19	69	10	4	30°
10	22	72	10	4	30°
11	22	79	10	4	30°
12	26	83	12	4	30°
13	26	83	12	4	30°
14	26	83	12	4	30°
15	26	83	12	4	30°



KISA PARMAK FREZE DIN 844 (1402)

Dk10	I	L	h d ₆	Z	≈λ
16	32	92	16	4	30°
17	32	92	16	4	30°
18	32	92	16	4	30°
19	38	104	20	4	30°
20	38	104	20	4	30°
21	38	104	20	4	30°
22	38	104	20	5	30°
23	38	104	20	5	30°
24	45	121	25	5	30°
25	45	121	25	5	30°
26	45	121	25	5	30°
27	45	121	25	2	30°
28	45	121	25	2	30°
29	45	121	25	5	30°
30	45	121	25	5	30°
31	3	133	32	6	30°
32	53	133	32	6	30°
36	53	133	32	6	35°
40	63	143	32	6	35°

UZUN PARMAK FREZE DIN 844N (1412)

Dk10	I	L	h d ₆	Z	≈λ
3	12	56	6	4	30°
4	19	63	6	4	40°
5	24	68	6	4	40°
6	24	68	6	4	30°
7	30	80	10	4	30°
8	38	88	10	4	30°
9	38	88	10	4	30°
10	45	95	10	4	30°
11	45	102	12	4	30°
12	53	110	12	4	30°
14	53	110	12	4	30°
15	53	110	12	4	30°



UZUN PARMAK FREZE DIN 844N (1412)

Dk10	I	L	h d ₆	Z	≈λ
16	63	123	16	4	30°
18	63	123	16	4	30°
20	75	141	20	4	30°
22	75	141	20	5	30°
24	90	166	25	5	30°
25	90	166	25	5	30°
26	90	166	25	5	30°
28	90	166	25	5	30°
30	90	166	25	5	30°
32	106	166	32	6	30°
36	106	166	32	6	35°
40	125	205	32	6	35°

İki Ağız ve Kabatalaş Parmak Frezeler Hss

İKİ AĞIZLI UZUN KÜRESEL FREZE (5114)

Dk10	I	L	h d 6
3	11	56	6
4	11	63	6
5	13	68	6
6	13	68	6
7	16	80	10
8	19	88	10
9	19	88	10
10	22	95	10
11	22	102	12



İKİ AĞIZLI UZUN KÜRESEL FREZE (5114)

Dk10	I	L	h d 6
12	26	110	12
13	26	110	12
14	26	110	12
15	26	110	12
16	32	123	16
18	32	123	16
20	38	141	20
22	38	141	20
24	45	166	25
25	45	166	25

KISA KABATALAŞ FREZE DIN 844 NR (1245)

Dk10	I	L	h d 6
6	13	57	4
7	16	66	4
8	19	69	4
9	19	69	4
10	22	72	4
11	22	79	4
12	26	83	4
13	26	83	4
14	26	83	4
15	26	83	4
16	32	92	4



KISA KABATALAŞ FREZE DIN 844 NR (1245)

Dk10	I	L	h d 6
17	32	92	4
18	32	92	4
20	38	104	4
22	38	104	5
24	35	121	5
25	45	121	5
26	45	121	5
28	45	121	5
30	45	121	5
32	53	133	6
36	53	133	6
40	63	143	6

UZUN KABATALAŞ FREZE DIN 844 NR (1255)

Dk10	I	L	h d 6
6	24	68	4
8	38	88	4
10	45	95	4
12	53	110	4
14	53	110	4
16	63	123	4
18	63	123	4
20	75	141	4



UZUN KABATALAŞ FREZE DIN 844 NR (1255)

Dk10	I	L	h d 6	Z
22	75	141	20	5
24	90	166	25	5
25	90	166	25	5
26	90	166	25	5
28	90	166	25	5
30	90	166	25	5
32	106	186	32	6
36	106	186	32	6
40	125	205	32	6

Punta Matkapları



PUNTA MATKABI DIN 333 A - HSS

D	L	d (h 7)
1,00	31,5	3,15
1,25	31,5	3,15
1,60	35,5	4,00
2,00	40,0	5,00
2,50	45,0	6,30
3,15	50,0	8,00
4,00	56,0	10,00
5,00	63,0	12,50
6,30	71,0	16,00
8,00	80,0	20,00
10,00	106,0	25,00



KADEMELİ SAÇ DELME MATKABI HSS

KOD	EBAT
C339-0420	4-20 mmX2 mm
C339-0535	5-35 mmx2-3 mm
C339-0439	4-39 mmx2 mm



PUNTA ÇÜRÜTME MATKABI HSS Co5 DIN 1412 E

d (h 8)	L	l
6,00	65	28
6,00	93	57
8,00	80	38
8,00	117	75



SABİT PİLOTLU HAVŞA FREZE DIN373 HSS

d ₁	D	D ₁	L	l	d	a
4	10	11	100	70	10,0	8
9	16	17	120	80	12,5	10
14	24	25	160	110	20,0	16
20	32	31	200	110	25,0	20

T-Freze HSS, Kırlangıç Freze

T-YARIK FREZE, DÜZ DİŞ DIN 850 (3200)

d k 10	S e8	L	d h 6	Z
10,5	2	50	6	6
10,5	3	50	6	6
13,5	3	56	10	6
13,5	4	56	10	6
16,5	3	56	10	6
16,5	4	56	10	6
16,5	5	56	10	6
19,5	4	63	10	8
19,5	5	63	10	8
19,5	6	63	10	8



T-YARIK FREZE, DÜZ DİŞ DIN 850 (3200)

d k 10	S e8	L	d h 6	Z
22,5	5	63	10	10
22,5	6	63	10	8
22,5	8	63	10	8
25,5	6	63	10	10
28,5	6	63	10	10
28,5	8	63	10	10
28,5	10	71	12	10
32,5	8	71	12	10
32,5	10	71	12	10
45,5	10	71	12	12



T-KANAL FREZE, ÇAPRAZ DİŞLİ 851 (3102)

D d 11	S d 11	L	d1	d h 6	Z
12,5	6	57	5	10	6
16	8	62	7	10	6
18	8	70	8	12	8
21	9	74	10	12	8

T-KANAL FREZE, ÇAPRAZ DİŞLİ 851 (3102)

D d 11	S d 11	L	d1	d h 6	Z
25	11	82	12	16	8
28	12	85	13	16	8
32	14	90	15	16	8
40	18	108	19	25	10
50	22	124	25	32	10



KIRLANGIÇ FREZE DIN 1833A (3302)

D	I	L	d h 6	Z	P
16	4	60	12	10	45°
20	5	63	12	10	45°
25	6,3	67	12	10	45°
32	8	71	16	12	45°

KIRLANGIÇ FREZE DIN 1833A (3302)

D	I	L	d h 6	Z	P
16	6,3	60	12	8	60°
20	8	63	12	10	60°
25	10	67	12	10	60°
32	12,5	71	16	12	60°



KIRLANGIÇ FREZE DIN 1833B (3500)

D	I	L	d h 6	Z	P
16	4	60	12	10	45°
20	5	63	12	10	45°
25	6,3	67	12	10	45°
32	8	71	16	12	45°

KIRLANGIÇ FREZE DIN 1833B (3500)

D	I	L	d h 6	Z	P
16	5	60	12	10	60°
20	6,3	63	12	10	60°
25	8	67	12	10	60°
32	12,5	71	16	12	60°

Prizma HSS, Havşa Freze Çeşitleri

PRİZMA FREZE DIN 847 - HSS (8570)

±30°	D js 16	S js 16	d H 7	Z
45°	50	8	16	22
45°	63	10	22	24
45°	80	12	27	26
45°	100	18	32	28
60°	50	10	16	18
60°	63	14	22	20



PRİZMA FREZE DIN 847 - HSS (8570)

±30°	D js 16	S js 16	d H 7	Z
60°	80	18	27	22
60°	100	25	32	24
90°	50	14	16	16
90°	63	20	22	18
90°	80	22	27	20
90°	100	32	32	24

KONİK ALIN FREZE DIN 842 - HSS (8532)

±20°	D js 16	S js 14	d H 7	Z
45°	40	10	10	14
45°	50	13	18	15
45°	63	18	16	18
45°	80	22	22	20
45°	100	28	27	22
45°	125	36	32	24
45°	160	45	40	28



KONİK ALIN FREZE DIN 842 - HSS (8532)

±20°	D js 16	S js 14	d H 7	Z
60°	40	13	10	14
60°	50	16	13	16
60°	63	20	16	18
60°	80	25	22	20
60°	100	32	27	22
60°	125	40	32	24
60°	160	50	40	28

HAVŞA FREZE HSS 90° DIN 335/C ÜÇ AĞIZLI

D	d	L
8	6	46/50
10	6	46/50
11,5	8	50
12	8	46/54
12,4	8	54
16	8	16,5/60
16,5	10	60



HAVŞA FREZE HSS 90° DIN 335/C ÜÇ AĞIZLI

D	d	L
20,5	10	63
23	10	67
25	10	51*66
25,5	10	66
30	12	71
40	12	80
50	12	85

HAVŞA FREZE KONİK SAPLI HSS 90° DIN 335/C ÜÇ AĞIZLI

D	d	L
30	2	113
34	2	118
40	3	140



HAVŞA FREZE KONİK SAPLI HSS 90° DIN 335/C ÜÇ AĞIZLI

D	d	L
50	3	150
65	4	180
80	4	190

Rayba Çeşitleri Hss



SİLİNDİRİK SAPLI MAKİNA RAYBASI
DIN 212 HELİS, HSS, H7

D (H7)	L	I	D
2	49	14	2,0
3	61	15	3,0
3,5	70	18	3,5
4	75	19	4,0
4,5	80	21	4,5
5	86	23	5,0
5,5	93	26	5,5
6	93	26	6,0
7	109	31	7,0
8	117	33	8,0
9	125	38	9,0
10	133	38	10,0
11	142	41	10,0
12	151	44	10,0
13	151	44	10,0
14	160	47	12,5
15	162	50	12,5
16	170	52	12,5
17	175	51	14,0
18	182	56	14,0
19	189	58	16,0
20	195	60	16,0

PİM RAYBASI 1:50 KONİK DIN9 HSS, H7

D(H7)	D ₁	L	I	D	A
3	4,06	4,06	58	4,0	3,15
4	5,26	5,26	68	5,0	4,00
5	6,36	6,36	73	6,3	5,00
6	8,00	8,00	105	8,0	6,30
8	10,80	10,80	145	10,0	8,00
10	13,40	13,40	175	12,5	10,00
12	16,00	16,00	210	14,0	11,20
14	18,00	18,00	210	14,0	11,20
16	20,40	20,40	230	18,0	14,00
20	24,80	24,80	250	22,4	18,00
25	30,70	30,70	300	28,0	22,40
30	36,10	36,10	320	31,5	25,00



EL RAYBASI HSS

D(H7)	L	I	A
2	50	25	1,60
2,5	58	29	2,00
3	62	31	2,24
3,5	71	35	2,80
4	76	38	3,15
4,5	81	41	3,55
5	87	44	4,00
5,5	93	47	4,50
6	93	47	4,50
6,5	100	50	5,00
7	107	54	5,60
7,5	107	54	5,60
8	115	58	6,30
8,5	115	58	6,30
9	124	62	7,10
10	133	66	8,00
11	142	71	9,00
12	152	76	10,00
13	152	76	10,00
14	163	81	11,20
15	163	81	11,20
16	175	81	12,50
17	175	87	12,50
18	188	93	14,00
19	188	93	14,00
20	201	100	16,00
21	201	100	16,00
22	215	107	18,00
23	215	107	18,00
24	231	115	20,00
25	231	115	20,00
26	231	115	20,00
27	247	124	22,40
28	247	124	22,40
30	247	124	22,40



Rayba Çeşitleri Hss



MORS KONİK SAPLI MAKİNA RAYBASI
DIN 208B HELİS, HSS, H7

D (H7)	L	İ	MK
6	138	26	1
7	150	31	1
8	156	33	1
9	162	36	1
10	168	38	1
11	175	41	1
12	182	44	1
13	182	44	1
14	189	47	1
15	204	50	2
16	210	52	2
17	214	54	2
18	219	56	2
19	223	58	2
20	228	60	2
21	232	62	2
22	237	64	2
23	241	66	2
24	268	68	3
25	268	68	3
26	273	70	3
27	277	71	3
28	277	71	33
29	281	73	3
30	281	73	3
31	285	75	3
32	317	77	4
33	317	77	4
34	321	78	4
35	321	78	4
36	325	79	4
38	329	81	4
39	329	81	4
40	329	81	4
41	333	82	4
42	333	82	4
44	336	83	4
45	336	83	4
46	340	84	4
47	340	84	4
48	344	86	4
50	344	86	4



AYARLI RAYBA HSS

D (mm)	BIÇAK ADEDİ
7,00-8,00	4
8,00-8,70	4
8,70-9,50	4
9,50-10,25	4
10,25-11,00	6
11,00-12,00	6
12,00-13,50	6
13,50-15,00	6
15,00-16,50	6
16,50-18,25	6
18,25-19,75	6
19,75-21,50	6
21,50-23,75	6
23,75-27,00	6
27,00-30,00	6
30,00-34,00	6
34,00-38,75	6
38,75-46,00	6
46,00-56,00	6



Klavuzlar



EL KLAVUZ TAKIMI 3 PARÇA DIN 352 HSS

d ₁	p	l ₁	l ₂	d ₂	a
M3	0,5	40	11	3,5	2,7
M4	0,7	45	13	4,5	3,4
M5	0,8	50	16	6	4,9
M6	1	50	19	6	4,9
M8	1,25	56	22	6	4,9
M10	1,5	70	24	7	5,5
M12	1,75	75	24	9	7
M14	2	80	29	11	9
M16	2	80	30	12	9
M18	2,5	95	32	14	11
M20	2,5	95	40	10	12
M22	2,5	100	40	18	14,5
M24	3	110	40	18	14,5
M27	3	110	50	20	16
M30	3,5	125	56	22	18
M33	3,5	125	66	26	20
M36	4	150	63	28	22
M39	4	150	63	32	24
M42	4,5	150	63	32	24
M45	4,5	160	70	36	29



MAKİNA KLAVUZLARI DIN 376/B
HSSE DÜZ KANAL UÇ BİLEMELİ (3500)

d ₁	P	l ₁	l ₂	d ₂	a
M4	0,7	63	12	2,8	2,1
M5	0,8	70	13	3,5	2,7
M6	1	80	15	4,5	3,4
M8	1,25	90	18	6	4,9
M10	1,5	100	20	7	5,5
M12	1,75	110	23	9	7
M14	2	110	25	11	9
M16	2	110	25	12	9
M18	2,5	125	30	14	11
M20	2,5	140	30	15	12
M22	2,5	140	30	18	14,5
M24	3	160	36	18	14,5
M27	3	160	36	20	16
M30	3,5	180	40	22	18
M33	3,5	180	42	25	20
M36	4	200	50	28	22



GAZ DIŞ MAKİNA KLAVUZU
DIN (5156) DÜZ KANALLI HELİS (3002)

d ₁	d ₁ (mm)	l ₁	l ₂	d ₂	a
G1/8"-28	9,72	90	20	7	5,5
G1/4"-19	13,15	100	21	11	9
G3/8"-19	16,66	100	21	12	9
G1/2"-14	20,95	125	24	16	12
G5/8"-14	22,90	125	24	18	14,5
G3/4"-14	26,44	140	26	20	16
G7/8"-14	30,20	150	28	22	18
G1"-11	33,24	160	30	25	20
G1 1/8"-11	37,89	170	30	28	22
G1 1/4"-11	41,91	170	30	32	24
G1 1/2"-11	47,80	190	32	36	29
G2"-11	59,61	220	40	45	35



MAKİNA KLAVUZLARI DIN 376/C
HSSE 35° HELİS (4050)

d ₁	P	l ₁	l ₂	d ₂	a
M4	0,7	63	7	2,8	2,1
M5	0,8	70	8	3,5	2,7
M6	1	80	10	4,5	3,4
M8	1,25	90	13	6	4,9
M10	1,5	100	15	7	5,5
M12	1,75	110	18	9	7
M14	2	110	20	11	9
M16	2	110	20	12	9
M18	2,5	125	25	14	11
M20	2,5	140	25	16	12
M22	2,5	140	25	18	14,5
M24	3	160	30	18	14,5
M27	3	160	30	20	16
M30	3,5	180	35	22	18
M33	3,5	180	35	25	20
M36	4	200	40	28	22

Paftalar

METRİK NORMAL DİŞ PAFTA HSS 6g (950)

d	P	D	E
M2	0,4	16	5
M3	0,5	20	5
M4	0,7	20	5
M5	0,8	20	5
M6	1	20	7
M7	1	25	9
M8	1,25	25	9
M9	1,25	25	9
M10	1,5	30	11
M12	1,75	38	14
M14	2	38	14
M16	2	45	18
M18	2,5	45	18
M20	2,5	45	18
M22	2,5	55	22
M24	3	55	22
M27	3	65	25
M30	3,5	65	25
M33	3,5	65	25
M36	4	65	25

METRİK İNCE DİŞ PAFTA HSS 6g (950)

d	P	D	E
M4,5	0,5	20	5
M5	0,5	20	5
M6	0,75	20	7
M8	0,75	25	9
M10	1	25	9
M10	1	30	11
M12	1,25	30	11
M12	1	38	10
M12	1,25	38	10
M14	1,5	38	10
M14	1	38	10
M14	1,25	38	10
M15	1,5	38	10
M16	1	38	10
M16	1	45	14
M18	1,5	45	14
M18	1	45	14
M20	1,5	45	14
M20	2	45	13
M20	1	45	14
M22	1,5	55	14
M22	2	55	15
M22	1,5	55	16
M24	2	55	16
M24	2	55	18
M27	1,5	65	18
M30	2	65	18
M33	1,5	65	18
M36	1,5	65	18



GAZ DİŞ PAFTA HSS (9502)

d	P	D	E
G1/8"	28	30	11
G1/4"	19	38	10
G3/8"	19	45	14
G1/2"	14	45	14
G5/8"	14	55	16
G3/4"	14	55	16
G7/8"	14	65	18
G1"	11	65	18
G1 1/8"	11	75	20
G1 1/4"	11	75	20
G1 1/2"	11	90	22
G1 3/4"	11	105	22
G2"	11	105	23

Klavuzlar İçin Kullanılması Gereken Matkap Uçları



METRİK ISO VİDALAR DIN 13	
ANMA ÇAPİ	MATKAP ÇAPİ mm
M1x0,25	0,75
M1,1x0,25	0,85
M1,2x0,25	0,95
M1,4x0,3	1,1
M1,6x0,35	1,25
M1,7x0,36	1,3
M1,8x0,35	1,45
M2x0,4	1,6
M2,2x0,45	1,75
M2,3x0,45	1,9
M2,5x0,45	2,05
M2,6x0,45	2,1
M3x0,5	2,5
M3,5x0,6	2,9
M4x0,7	3,3
M4,5x0,75	3,7
M5x0,8	4,2
M5,5x0,9	4,6
M6x1	5
M7x1	6
M8x1,25	6,8
M9x1,25	7,8
M10x1,5	8,5
M11x1,5	9,5
M12x1,75	10,2
M14x2	12
M16x2	14
M18x2,5	15,5
M20x2,5	17,5
M22x2,5	19,5
M24x3	21
M27x3	24
M30x3,5	26,5
M33x3,5	29,5
M36x4	32
M39x4	35
M42x4,5	37,5
M45x4,5	40,5
M48x5	46
M52x5	47

METRİK ISO VİDALAR DIN 13	
ANMA ÇAPİ	MATKAP ÇAPİ mm
M4x0,35	3,6
M4x0,5	3,5
M5x0,5	4,5
M5x0,5	5,5
M6x0,75	5,25
M7x0,75	6,25
M8x0,5	7,5
M8x0,75	7,25
M8x1	7
M9x1	8
M10x0,75	9,25
M10x1	9
M10x1,25	8,8
M11x1	10
M12x0,75	11,25
M12x1	11
M12x1,5	10,5
M13x1	12
M14x1	13
M14x1,25	12,8
M14x1,5	12,5
M16x1	15
M16x1,5	14,5
M18x1	17
M18x2	16
M20x1	19
M20x1,5	18,5
M20x2	18
M22x1	21
M22x1,5	20,5
M22x2	20
M24x1,5	22,5
M24x2	22
M25x1,5	23,5
M26x1,5	24,5
M27x1,5	25,5
M27x2	25
M28x1,5	25,5
M30x1,5	28,5
M30x2	28

METRİK ISO VİDALAR DIN 13	
ANMA ÇAPİ INCH	MATKAP ÇAPİ mm
W1/16	1,15
W1/8	2,55
W3/16	3,7
W1/4	5,1
W5/16	6,5
W3/8	7,9
W7/16	9,3
W1/2	10,5
W9/16	12,1
W5/8	13,5
W11/16	15
W3/4	16,25
W13/16	18
W7/8	19,25
W15/16	21
W1	22
W1 1/8	24,75
W1 1/4	28
W1 3/8	30
W1 1/2	33,5
W1 5/8	35,5
W1 3/4	39
W1 7/8	41,5
W2	44,5

KABA VİDA UNC - NC	
ANMA ÇAPİ INCH	MATKAP ÇAPİ mm
UNC Nr.1	1,55
UNC Nr.2	1,85
UNC Nr.3	2,1
UNC Nr.4	2,35
UNC Nr.5	2,65
UNC Nr.6	2,85
UNC Nr.8	3,45
UNC Nr.10	3,9
UNC Nr.12	4,5
UNC 1/4"	5,2
UNC 5/16"	6,6
UNC 3/8"	8,0
UNC 7/16"	9,4
UNC 1/2"	10,8
UNC 9/16"	12,2
UNC 5/6"	13,5
UNC 3/4"	16,5
UNC 7/8"	19,5
UNC 1"	22,25
UNC 1 1/8	25,0
UNC 1 1/4"	28,0
UNC 1 1/2"	34,0

İNCE VİDA UNF - NF	
ANMA ÇAPİ INCH	MATKAP ÇAPİ mm
UNF Nr.0	1,25
UNF Nr.1	1,55
UNF Nr.2	1,9
UNF Nr.3	2,15
UNF Nr.4	2,4
UNF Nr.5	2,7
UNF Nr.6	2,95
UNF Nr.8	3,5
UNF Nr.10	4,1
UNF Nr.12	4,7
UNF 1/4"	5,5
UNF 5/16"	6,9
UNF 3/8"	8,5
UNF 7/16"	9,9
UNF 1/2"	11,5
UNF 9/16"	12,9
UNF 5/8"	14,5
UNF 3/4"	17,5
UNF 7/8"	20,5
UNF 1"	23,25
UNF 1 1/8"	26,5
UNF 1 1/4"	29,5
UNF 1 1/2"	36,0

İNCE VİDA UNF - NF	
ANMA ÇAPİ INCH	MATKAP ÇAPİ mm
G1/8	8,8
G1/4	11,8
G3/8	15,25
G1/2	19,0
G5/8	21,0
G3/4	24,5
G7/8	28,25
G1	30,75
G1 1/8	35,5
G1 1/4	39,0
G1 3/8	42,5
G1 1/2	45,5
G1 3/4	51,0
G2	57,0
G2 1/4	63,0
G2 1/2	72,5
G2 3/4	79,0
G3	85,5
G3 1/4	91,5
G3 1/2	98,0
G3 3/4	104,0
G4	110,4

Torna Kalemleri HSS

10X10X80 HSS-E C2

KARE KESİTLİ TORNA KALEMİ DIN 4964/B

b	b	L
4	4	80
4	4	100
5	5	80
5	5	100
5	5	125
6	6	80
6	6	100
8	8	100
8	8	125
10	10	80
10	10	100
10	10	125
10	10	160
12	12	125
12	12	160
12	12	200
14	14	160
14	14	200
16	16	160
16	16	200
18	18	200
20	20	200
25	25	200

TRAPEZ KESİTLİ KESME
KALEMİ DIN 4964/E HSS

b	h	L
3	12 (1/2")	160
3	16 (5/8")	160
4	16 (5/8")	160
4	20 (3/4")	160
5	20 (3/4")	160
5	22 (7/5")	160
6	25 (1")	160
6	25 (1")	200

YUVARLAK PANTOGRAF
KALEMİ DIN 4964/A HSS

C	L
4	100
5	100
6	100
8	100
8	160
10	160
10	200
12	160
12	200
14	200
16	160
16	200
18	200
20	200

LAMA KALEMİ

b	b	L
3	20	200
4	8	160
4	10	160
4	12	160
4	14	160
4	16	160
4	16	200
4	18	200
5	8	160
5	8	200
5	10	160
5	10	200
5	12	200
5	16	200
5	18	160
5	18	200
6	10	200
6	12	200
6	16	200
6	18	200
6	20	200
6	25	200
6	32	200
6	40	200
8	12	200
8	14	200
8	16	200
8	20	160
8	20	200
8	25	200
8	32	200
8	40	200
10	14	200
10	16	200
10	20	200
10	25	200
10	30	200
10	32	200
10	40	200
10	50	200
12	16	200
12	20	200
12	25	200
12	32	200

Daire Testere

DIN 1837 HSS METAL İÇİN DAİRE TESTERE

DXS	d	Z
40X0,2	10	128
40X0,25	10	100
40X0,3	10	100
40X0,4	10	100
40X0,5	10	80
40X0,6	10	80
40X0,7	10	80
40X0,8	10	80
40X0,9	10	80
40X1,0	10	64
40X1,2	10	64
40X1,5	10	64
40X1,6	10	64
40X2,0	10	48
40X2,5	10	48
40X3,0	10	48
50X0,2	13	128
50X0,25	13	128
50X0,3	13	128
50X0,4	13	100
50X0,5	13	100
50X0,6	13	100
50X0,7	13	100
50X0,8	13	80
50X0,9	13	80
50X1,0	13	80
50X1,2	13	80
50X1,5	13	64
50X1,6	13	64
50X2,0	13	64
50X2,5	13	64
50X3,0	13	48
50X4,0	13	48
50X5,0	13	48
63X0,2	16	128
63X0,25	16	150
63X0,3	16	128
63X0,4	16	128
63X0,5	16	128
63X0,6	16	100
63X0,7	16	100
63X0,8	16	100
63X0,9	16	100
63X1,0	16	100
63X1,2	16	100
63X1,5	16	80
63X1,6	16	80



DIN 1837 HSS METAL İÇİN DAİRE TESTERE

DXS	d	Z
63X2,0	16	80
63X2,5	16	64
63X3,2	16	64
63X3,5	16	64
63X4,0	16	64
63X5,0	16	48
63X6,0	16	48
80X0,3	22	160
80X0,4	22	160
80X0,5	22	128
80X0,6	22	128
80X0,7	22	128
80X0,8	22	128
80X0,9	22	128
80X1,0	22	100
80X1,2	22	100
80X1,4	22	100
80X1,5	22	100
80X1,6	22	100
80X2,0	22	80
80X2,5	22	80
80X3,0	22	80
80X3,5	22	80
80X4,0	22	64
80X5,0	22	64
80X6,0	22	64
100X0,5	22	160
100X0,6	22	160
100X0,7	22	160
100X0,8	22	128
100X0,9	22	128
100X1,0	22	128
100X1,2	22	128
100X1,5	22	128
100X1,6	22	100
100X2,0	22	100
100X2,5	22	100
100X3,0	22	80
100X3,5	22	80
100X4,0	22	80
100X5,0	22	80
100X6,0	22	64
125X0,6	22/27	160
125X0,8	22/27	160
125X1,0	22/27	160
125X1,2	22/27	128
125X1,5	22/27	128

Testere Çeşitleri



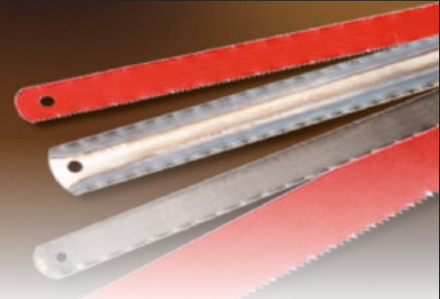
KANAL FREZE

d1	d2	b
63	22/27	8
63	22/27	10
63	22/27	12
63	22/27	14
80	22/27	8
80	22/27	10
80	22/27	12
80	22/27	14
80	32	16
80	32	18
80	32	20
100	32	10
100	32	12
100	32	14
100	32	16
100	32	18
100	32	20
100	32	22
100	32	25

İÇ BÜKEY FREZE



DIŞ BÜKEY FREZE



MAKİNA TESTERE LAMASI HSS (DMo5=DIN 1.3343)

BOY	EN	KALINLIK	Z
300	25	1,60	6
300	25	1,60	8
350	32	1,60	6
350	32	1,60	8
400	32	1,60	6
400	32	1,60	8
450	32	1,60	6
450	32	1,60	8
500	40	2,00	6
500	40	2,00	8
600	50	2,00	6
600	50	2,00	8
700	50	2,50	6
700	50	2,50	8



EL TESTERESİ LAMASI

BOY	EN	KALINLIK	Z
300 HSS	13	0,60	18
300 HSS	13	0,60	24
300 HSS	25	0,65	18
300 HSS	25	0,65	24
300 Cr	25	0,80	18
300 Cr	25	0,80	24

Ölçü Aletleri



DIŞ ÇAP KİLOMETRESİ

KOD	EBAT
C 200 - 0025	0-25X0,01 mm
C 200 - 2550	26-50X0,01 mm
C 200 - 5075	50-76x0,01 mm
C 200 - 7510	76-100x0,01 mm
C 200 - 1012	100-126x0,01 mm
C 200 - 1216	125-130x0,01 mm
C 200 - 1517	150-175x0,01 mm
C 200 - 1720	175-200x0,01 mm
C 200 - 2022	200-225x0,01 mm
C 200 - 2225	225-250x0,01 mm
C 200 - 2527	250-270x0,01 mm
C 200 2730	275-300x0,01 mm
C 200 - 3040	300-400x0,01 mm
C 200 - 4050	400-500x0,01 mm

YÜKSEKLİK MİHENGİRİ MERCEKLİ

KOD	EBAT
C 104 - 3002	300X0,02 mm
C 104 - 5002	500X0,02 mm
C 104 - 6002	600X0,01 mm
C 104 - 10002	1000X0,02 mm

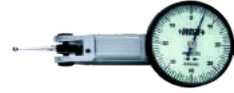


MİKROMETRE SETİ

KOD	EBAT
C 209 - 0150	0 - 150 mm 6 parça kutulu

KOMPARATÖR SAATLERİ

KOD	EBAT
C 400 - 1001	0 - 10x0,01 KULAKLI
C 399 - 3001	0 - 10X0,01 mm KULAKSIZ
C 400 - 1001KC	0-10X0,01 mm Küçük çap kulaklı (42mm)
C 399 - 1001KC	0-10X0,01 mm Küçük çap kulaklı (42mm)
C 400 - 2501	0 - 25 X 0,01 mm KULAKLI
C 400 - 3001	0 - 30 X 0,01 mm KULAKLI
C 399 - 5001	0 - 50 X 0,01 mm KULLAKSIZ
C 399 - 10001	0 - 100 X 0,01 mm KULLAKSIZ



SALGI KOMPARATÖR SAATİ

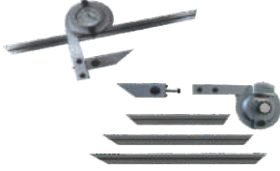
KOD	EBAT
C 500 - 0801	0 - 0,8 X 0,01 mm
C 500 - 0202	0 - 0,2 X 0,002 mm



DELİK KOMPARATÖRLERİ

KOD	EBAT
C 300 - 1018	10 - 18X0,01 mm
C 300 - 1835	18 - 35X0,01 mm
C 300 - 3550	35 - 50X0,01 mm
C 300 - 5016	50 - 160X0,01 mm
C 300 - 1625	160 - 250X0,01 mm
C 300 - 2545	250 - 450X0,01 mm

Gönye Çeşitleri



GÖNYELER

KOD	EBAT
C 610 - 360 S	360X5 SAATLİ GÖNYE
C 610 - 360 M	0-360 DERECE MERCEKLİ GÖNYE



KIL GÖNYE DIN 875/0

KOD	EBAT
C 125 - 050040	50X40 mm
C 125 - 075050	75X50 mm
C 125 - 100070	100X70 mm
C 125 - 150100	150X100 mm
C 125 - 200130	200X130 mm
C 125 - 300200	300X200 mm



İÇÇAP KOMPRATÖRÜ

KOD	EBAT
C 099 - 1535	15 - 35X0,01 mm
C 099 - 3555	35 - 55X0,01 mm



ŞAPKALI GÖNYE DIN 875/0

KOD	EBAT
C 127 - 050040	50X40 mm
C 127 - 075050	75X50 mm
C 127 - 100070	100X70 mm
C 127 - 150100	150X100 mm
C 127 - 200130	200X130 mm
C 127 - 250165	250X165 mm
C 127 - 300175	300X175 mm
C 127 - 400230	400X230 mm
C 127 - 500280	500X280 mm



AÇILI GÖNYE

KOD	EBAT
C 120 - 080	80X120 mm
C 120 - 120	120X150 mm
C 120 - 150	150X200 mm
C 120 - 200	200X300 mm

SİLİNDİR KOMPRATÖR SETİ





MANYETİK AYAKLAR

KOD	EBAT
C 900 - 0040	MANYETİK KOMPARATÖR
C 900 - MT060A	MANYETİK KOMPARATÖR AYIĞI, FLEX



GRANİT PLEYT DIN 875/00

KOD	EBAT
C 002 - 4025	400X250X80 mm
C 002 - 6040	630X400X100 mm



HASSAS SU TERAZİLERİ

KOD	EBAT
C 620 - 100	100X0,02 mm Hassas J Terazisi
C 620 - 150	150X0,02 mm Hassas J Terazisi
C 620 - 200	200X0,02 mm Hassas J Terazisi
C 620 - 100	100X100X0,02 mm Kare Hassas Su Terazisi

GEÇER GEÇMEZ MASTAR



JOHNSON MASTAR SETİ



AÇI MASTAR SETİ (10 PARÇA)



DİŞ TARAĞI

FİLLER ÇAKISI



TURMETRE

KOD	EBAT
C 008 - 001	5 HANELİ VURMALI

SIFIRLAMA APARATI



Mandren - Mors - Klavuz ve Pafta Kolları



MORS KOVAN

MK2
MK3
MK4
MK5



MANDREN SAPI

MK2
MK3
MK4



KLAVUZ KOLU

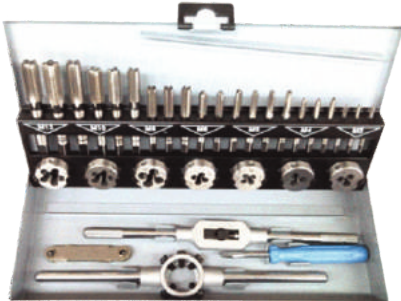
M2 - M8
M4 - M22



PAFTA KOLU

20
25
30

KLAVUZ VE PAFTA SETİ



Supra

Anahtarlı

MANDREN

0 - 10
0 - 13
1 - 16
1 - 20

Puntalar (Hassas Tip-Mekanik Kilitlemeli)



DÖNER PUNTALAR

MK

MK2
MK3
MK4
MK5
MK6



SABİT PUNTALAR

MK

MK1
MK2
MK3
MK4
MK5
MK6



TORNA AYNASI

Çap x Ayak

Çap x Ayak

80X3	80X4
100X3	100X4
125X3	125X4
200X3	200X4
250X3	250X4
315X3	315X4



BORU PUNTALARI

MK

MK2
MK3
MK4
MK5
MK4
MK5



AYINA BAĞLAMA FLANŞ

Ölçü	No	Delik Çapı	Saplama Adedi
160	5	82,563	4
	6	106,375	4
200	5	82,563	4
	6	106,375	4
250	6	106,375	4
	8	139,719	4
315	6	106,375	4
	8	139,719	4
	11	196,869	6

YUMUŞAK AYAK



HİDROLİK AYNA





HASSAS MENGENE

Kod	Ebat
C 905 - QKG050	50x65 mm
C 905 - QKG073	80x100 mm
C 905 - QKG100	100x125 mm
C 905 - QKG125	125x160 mm



ÇİFT ÇENE MENGENE

Kod	Ebat
C 980 - 100	100x76 mm
C 980 - 160	160x100 mm

MENGENELER



ÖLÇÜ

100
125
150
200

MANYETİK KALDIRAÇ



ÇAPAK ALMA



TAŞ MOTOR



2 AÇILI MENGENE

Kod	Ebat
C 904 - 125	125x140 mm
C 904 - 160	160x125 mm



HİDROLİK MENGENE

Kod	Ebat
C 898 - 160x125	160x125 mm, 4 ton
C 898 - 200x160	200x160 mm, 4 ton
C 898 - 152x320	152x320 mm, 4 ton uzun



YATAY DİKEY DÖNER TABLO

Kod	Ebat
C 960 - 200	200 mm
C 960 - 250	250 mm
C 960 - 320	320 mm
C 960 - 400	400 mm



CNC FREZE MENGENESİ

Kod	Ebat
C 964 - 100	100x100x34 mm
C964 - 150	150x150x45 mm

Koruyucu Kimyasal Ürünler

Kuvvetli Pas Sökücü Sprey

Özellikleri

Üstün özelliklere ve ileri teknolojiye sahip bir pas sökücüdür. Yüzeğe çok iyi işleme özelliğine sahiptir. Sıkışmış civata ve somunları anında gevşetir.

Kullanım Alanı

Her türlü metal ve otomotiv endüstrisinde, paslanmış bölgelerin çözülmesinde kullanılır.



400 MI

Multi Signum Sprey

Özellikleri

Bu sprey 5 işi bir arada yapar; korozyona karşı korur, pası çözer, yağlar, temizler ve tekrar kirlenmesini engeller.
-30°C - 100°C ısıya dayanıklıdır.
Vanilya kokuludur

Kullanım Alanı

Otomotiv sektörü, metal, makine bakım ve onarımı yapılan yerlerde kullanılır.



400 MI

WW 3000 Sprey (Sıvı Gress)

Özellikleri

Yüksek basınca dayanıklı yağlama malzemesidir. Suya, 180°C ısıya ve korozyona karşı dayanıklıdır. Tutunma özelliği fazladır. Akma ve damlama yapmaz. Şeffaf renktedir ve kalıcı yağlama yapar.

Kullanım Alanı

Otomotiv sektöründe, ağır iş makineleri, forklift zincirleri, kalıp aparatları vb. için kullanılır.



500 MI

WW 3000 (Sıvı Gress)

Özellikleri

Yüksek basınca dayanıklı tutunma özelliği vardır.
180°C ısıya, su ve tuzlu suya dayanıklıdır.

Kullanım Alanı

Tüm kalıp yüzeylerinde koruma amaçlı, forklift zincirlerinde, açık dişlielerde, konveyör hatlarında, mafsallarda, menteşe yerlerinde vb. kullanılır.



30 - 60 Lt

Fren Balata ve Parça Temizleyici Sprey

Özellikleri

Bütün metallerde yağ, kir, is ve reçineyi çabuk ve iz bırakmadan temizler.

Kullanım Alanı

Havalandırma sistemlerinde her türlü kalıp, makine zincir ve frenlerde temizlik amaçlı kullanılır.



500 MI

Parça Temizleyici

Özellikleri

Solvent bazlı uçucu temizlik maddesidir. Temizleme işleminden sonra buharlaşarak kaybolur.

Kullanım Alanı

Otomobil, makine kalıp, zincir gibi yerlerde genel temizleyici olarak kullanılır.



30 Lt

El Temizleme Kremi

Özellikleri

Alkali ve çözücü maddeler içermez. Dermatolojik açıdan sakıncası olmayan ürünlerin bileşiminden oluşur. Ürünün içerisinde bulunan işlenmiş nce pütürlü maddeler eldeki gözeneklerde derinlemesine temizlik ve koruma sağlar.

Kullanım Alanı

Temizleme kremi, mekanik, boyalı ve yapışkan tüm endüstriyel kirlerde, yağ, katran, zift, PU köpüğü, cila tozu ve kömür artığı gibi tüm zor kirleri elinizden kolaylıkla çıkarır



3 - 30 Lt

Yüzey Pas Temizleme Kremi

Özellikleri

Direk uygulanır. Yüzeydeki pası mikron bazında aşındırarak yüzeyi pastan arındırır.

Kullanım Alanı

Tüm metal yüzeylerde pas sökücü olarak kullanılır.



30 Lt

Koruyucu Kimyasal Ürünler

Polisaj Pastası

Özellikleri
Yüzeylerde polisaj parlatma işlemini yapar. Bez veya makine ile yüzeye uygulanır.

Kullanım Alanı

Nikelaaj, kromaj, paslanmaz çelik, pleksiglas, fibreglas, altın, gümüş, platin, pirinç, bakır, bronz yüzeylerin metal ve çelik kalıpların parlatılmasında kullanılır.



90 gr - 1 kg

Genel Amaçlı Gress Yağı

Özellikleri
Lityum esaslı olup devirli çalışan her türlü dişli ve rulmanlarda kullanılır. Basınca, suya, 180°C ısıya dayanıklıdır.

Kullanım Alanı

Yüksek sıcaklığa dayanıklı yapısı sayesinde demir, çelik, çimento, maden, kimya ve kağıt sektöründe kullanılır.



1 - 25 kg

WINCUT Kesme Yağı

Özellikleri
Alüminyumda, paslanmaz çelik, siyah metalde ve tüm çelik türlerinde delme, kesme ve kılavuz çekme işlerinde kullanılır. İşlem sırasında oluşacak olan ısıyı düşürerek takımların zarar görmesini engeller ve çok rahat bir çalışma ortamı sağlar.

Kullanım Alanı

Tüm metallerde sürtünmeyi azaltır. Kılavuz ve matkap ömrünü uzatır. Kusursuz diş çekme ve delme işlemi sağlar.



460 ml

Kesme Yağı

Özellikleri
Yüksek basınca ve sıcaklığa dayanabilen özel katkılarla kuvvetlendirilmiş kesme yağıdır.

Kullanım Alanı

Cıvata ve vida makinelerinde, diş açmalarda, ovalamalarda, baş yarma, broşlama vb. operasyonlarda kullanılır.



5 - 30 Lt

Taşlama Sıvısı

Özellikleri
Sentetik esaslı kesme ve taşlama sıvısıdır. Su ile karıştırılır. Film tabakası oluşturarak aşınma ve sürtünmeleri minimize eder. Çalışma sırasında pas önleme özelliği vardır. Tamamen doğada parçalanır. Ekonomiktir.

Kullanım Alanı

Bütün taşlama tezgahlarında kullanılır.



30 - 60 Lt

İtici Yağlama Gresi

Özellikleri
Metal ve grafit içermeyen montaj pastasıdır. -180°C / +1400°C ısıya ayrıca 220N/mm² basınca dayanıklıdır. İleri teknolojiye sahip seramik yapılı ve yüksek ısıya dayanıklı parçaların üzerinde çok iyi verimlilik sağlar. Korozyonu engeller.

Kullanım Alanı

Kalıp iticilerinde yağlama amaçlı kullanılır.



1 Kg

Sentetik Soğutma Sıvısı

Özellikleri
Sentetik bazda CNC soğutma sıvısıdır. Konsantrasyonu düşüktür. Bakterileşme ve yosunlaşma yapmaz. Cilde zarar vermez.

Kullanım Alanı

Bütün CNC ve manuel tezgahlarda kullanılır.



30 Lt
60 Lt

Erozyon Yağı

Özellikleri
Daldırma erozyon makinelerinde kullanılan soğutma maddesidir. Özellikle bakırda oluşan yanma kokusu yoktur. Yanma sırasında sıvı etkilenmez, bu sayede süzülürken sonra da defalarca kullanılabilir.

Kullanım Alanı

Daldırma erozyon tezgahlarında kullanılır.



30 - 60 Lt



KALİTE VE ÇEŞİT'TE ÖNCÜ MARKALAR...

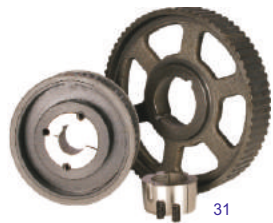
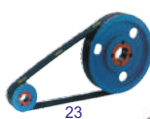
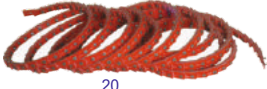
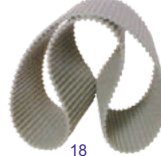
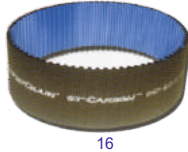
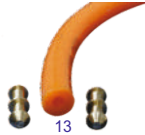
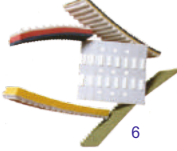
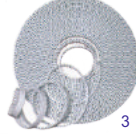
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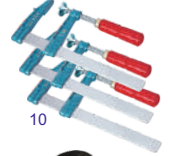
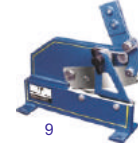
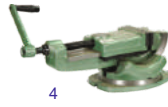


OSAKA





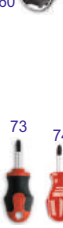
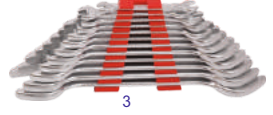
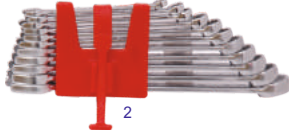
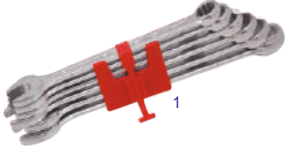


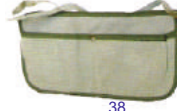


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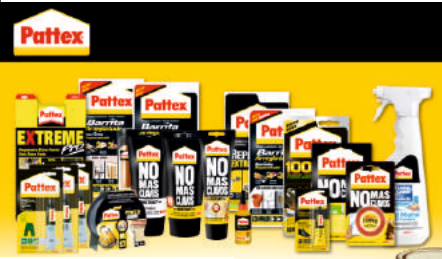
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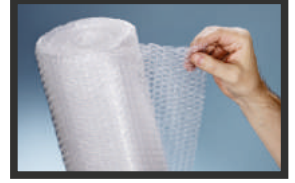




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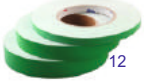
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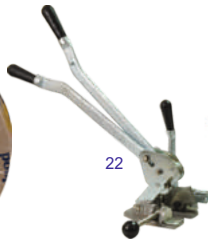
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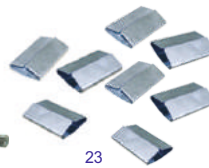
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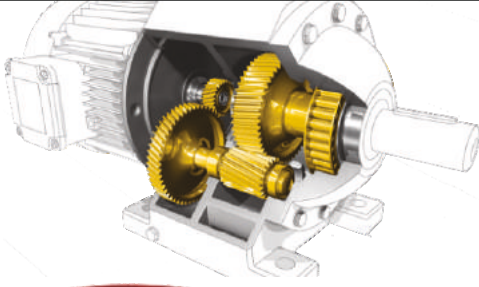
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24

POLİMETAL SU BAZLI





Omala Dişli Yağları



Shell Omala endüstriyel dişli yağları ürün portföyü, aşınmaya karşı daha iyi koruma, uzun yağ ömrü ve yüksek sistem verimliliği sayesinde işletmenize optimum değer sağlayacak olan yağı seçmenize imkan tanır.

Shell Tellus



Shell Tellus hidrolik yağlar, daha az zıplı uygulamalarda, güvenilir ürünlerden dört kata kadar standart yağ ömrü sunabilen ekstra uzun ömürlü sentetik teknolojilere sahiptir.



Rimula R6M 10W 40 • Rimula R4X 15W 40



Doğru yağın kullanılması, sadece motorunuzu korumak ve ömrünü uzatmak ve kamyonunuzun performansını artırmakla kalmaz, aynı zamanda bakım ve yakıt masraflarından tasarruf etmenizi de sağlar.

Gadus Gres Çeşitleri - Kauçuklu Gres



Gresiniz ne kadar uzun süre dayanırsa, parçalarının o kadar uzun süre dayanır ve ekipmanınızın yağlama bakımı o kadar az olur.



FORCE
K 102

Yarı Sentetik Kesme ve Soğutma Sıvısı

TANIM
Korozyon inhibitörleri, Aşırı basınç (EP) ve Ajanına dayalı (AW) katkıları, Antioksidanlar ve Yürey akışlarına koordineyicilerden oluşan kesme ve soğutma sıvısıdır.

AVANTAJLARI
İyileştirilmiş katkılarda aşırı basınç altında çok iyi sonuçlar verir. Mükemmel emülsiyon formunu sağlar. Takım ömrünü uzatır. Çok sert sularda dahi stabil emülsiyonlar verir. İhtakar olmaksızın emülsiyon katkılarının gerektiğinde kokusu olmaz. Yakama özelliğinden dolayı torgahın tırmık kalmasını sağlar. Sağlığa zararlı içerir, kesin ve ırmalıda kullanılmaz. Kaçak yapıları bünyesine almaz ve merkezli sistemlerde rahatlıkla kullanılır.

UYGULAMA
İşlenmiş Parçanın sertliğine göre % 4-6 oranlarında su ile karıştırılarak kullanılır.

HAZIRLAMA
Daima uygun bir kapta suya yavaş ilâve edilerek ve aynı zamanda karıştırılarak emülsiyon hazırlanır. Torgah hazırlama ilâve edilir.

UYARILAR
Harcılanan Emülsiyon kullanma miktarında torgah uygun demetektörler (EUROLUB TE-SD) kullanılarak denetimde edilmelidir. Demetektörün Uygulanması:
1. Etki yüksek hazırlama boşaltılır.
2. Torgah yarıya kadar su ile doldurulur. % 1-2 oranında EUROLUB TE-SD ilâve edilerek 2 saat süreyle edilir.
3. Demetektöre suya hazırlanmış emülsiyon torgaha doldurulur.
4. Yeni hazırlanmış emülsiyon torgaha konur.
5. Uzun süreli ve sürekli kullanım için emülsiyona aydın bir boyalı ilâve yapılması tavsiye olunur.

ATIKLAR
Atık su arıtma tesislerinde kimyasal yöntemle kolayca çöktürülebilir.

www.tess-san.com.tr

Yarı Sentetik Metal İşleme Sıvılar

Son teknoloji formülasyonlarla üretilmiş, yeni teknoloji tüm makinaların (yüksek devirli) ihtiyaçlarını karşılayan pas ve bakteri üretmesi ve buna bağlı olarak oluşan kokuşma problemlerini kesin olarak çözen ürünlerdir. Sert sularda bile dahi mükemmel emülsiyon kararlılığını sağlayan ürünler EP (AŞIRI BASINÇ) katkıları ile takviye edilmişlerdir. En zor operasyonlarda çok yüksek takım ömrünü ve mükemmel yüzey düzgünlüğünü garanti ederler. Yüksek devir hızlarında (> 6000 devir / dk) köpürmeyen ürünler özel seçilmiş katkı malzemeleri ile uzun hazne ömrü sağlarlar. Tornalama, frezeleme her türlü kesme ve delme gibi operasyonların yanında yüksek konsantrasyonlarda diş açma, broşlama, raybalama gibi operasyonlarda başarı ile kullanılabilen talaşlı imalat sıvılarıdır.



Mobil

Mobil Vactra Oil No.2

Mobil Vactra Oil No.2 günümüz yüksek verimli takım tezgahlarının gerektirdiği hassasiyet ve parça yüzey kalitesi gereksinimlerini tam olarak karşılayacak şekilde özel olarak tasarlanmış üstün kaliteli yağlardır.



Mobil Gear XP 68-100-150-220

Mobil Gear 600 XP Serisi, sirkülasyon ya da sıçırma yağlama sistemleri içeren her tipten kapalı dişli takımlarında kullanılmak üzere tasarlanmış üstün aşırı basınç ve yük taşıma özellikli, çok yüksek performanslı dişli yağlardır.



Mobil DTE™ 24

Mobil DTE 20 Serisi yağları, geniş çaplı hidrolik ekipman gereksinimlerini karşılamak üzere tasarlanan üstün performanslı aşınma önleyici hidrolik yağlardır. Uzun yağ/filtre ömrü ve optimum ekipman koruması sağlayarak, bakım maliyetlerini ve atık imha maliyetlerini azaltırlar.



Mobil Rarus 424 - 425 - 426

Mobil Rarus 400 Serisi önde gelen kompresör imalatçıların talep ettiği zorlu gereksinimleri karşılamak üzere tasarlanmış üstün performanslı külsüz hava kompresörü yağlardır.





Hidrolik Sistem Yağları

Rasch HYD: Rasch HYD yüksek viskozite indeksli parafinik esaslı baz yağlara, aşınma, oksidasyon, pas ve köpük önleyici katıkların ilavesi ile üretilmiştir. Pasa ve oksidasyona karşı koruyucu yağkullanılması istenen sistemlerde kullanılır.

Rasch ATF: Rasch ATF Yüksek viskozite indeksi ile çok düşük sıcaklıklarda akıcılığını koruyarak ve yüksek sıcaklıklarda da yağlayıcılığını koruyarak tam performans gösterir.

Rasch DOT III: Yüksek performanslı fren hidroliği yüksek kaynama noktası sayesinde fren sistemlerinde sorunsuz bir kullanım sağlar

Gresler

Rasch Lityum Gres: Multigrade Lityum Sabunlu Gres. Yüksek ısıyla ve suya dayanıklı özel bir üründür. Endüstride yüksek basınç ve ısı şartlarında kullanılır. Farklı kalınlık seviyelerinde üretimi gerçekleştirilmektedir.

Kesme Yağlar

Rasch Kesme Yağı: Demir kesme torna makinelerinde sürtünmeleri azaltmak ve paslanmaları engellemek için kullanılan bor bazlı ürünlerdir.





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