VEFA

KALIP MARKET
ve KALIP SETLERİ

KALIP SETLERİ | KALIP ELEMANLARI | TEKNİK HIRDAVAT

2026

ÜRÜN KATALOĞU

Kalıp ve sanayi için teknik tedarik



KALİTE • GÜVEN • HASSASİYET

YÜKSEK DAYANIM | **HASSAS İŞÇİLİK** | **UZUN ÖMÜRLÜ** | **ÖZEL TASARIM**

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Sahadan gelen tecrübe

Kalıp setleri, kalıp elemanları ve teknik hırdavat tedarikinde ihtiyacınıza doğru ürünü bulmanız için hazırlanmış katalog.

YÜKSEK
Dayanım
Kalıp ve sanayi uygulamalarına uygun malzeme seçimi.

HASSAS
İşçilik
Ölçü ve tolerans hassasiyetiyle üretilmiş ürünler.

UZUN
Ömürlü
Uzun kullanım ömrü için seçilmiş standart ürünler.

Nasıl çalışırız

01 **İhtiyacı netleştiririz**
Kod, ölçü, adet ve kullanım bilgisini birlikte kontrol ederiz.

02 **Teknik olarak teyit ederiz**
Uyumluluk, stok ve termin bilgisini teklif öncesi doğrularız.

03 **Süreci takip ederiz**
Tekliften sevkiyata kadar tek iletişim üzerinden ilerleriz.

Ürün kodunu, ölçüyü ve adedi iletin;
teknik teyitli teklifinizi hazırlayalım.

Mustafa Selman Yönetici • Vefa Kalıp Market

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KATALOG REHBERİ

İçindekiler

01 **Kalıp Yayları** — 007
Renk kodlu kalıp yayları • Poliüretan yaylar • Gazlı yaylar

02 **Kolon ve Burçlar** — 019
Kolon ve kılavuz elemanları • Burç ve bilyalı kafesler • Merkezleme elemanları

03 **Kalıp Elemanları** — 063
İticiler ve pimler • Standart parçalar • Yolluk ve tarih elemanları

04 **Kalıp Parlatma Ekipmanları** — 121
Elmas pasta ve taşlar • Keçe, zımpara ve fırçalar • Parlatma makineleri

05 **Kalıp Bağlama Ekipmanları** — 137
Bağlama elemanları • Mengene ve tablalar • Kaldırma ve taşıma

06 **Ölçüm Aletleri** — 187
Kumpas ve mikrometre • Komparatör ve mihengir • Açı ve yüzey kontrolü

07 **Kesici ve Tutucu Takımlar** — 199
Freze, matkap ve kılavuz • Kesici uçlar • Takım tutucular

08 **Atölye Ekipmanları** — 259
Dolap ve çalışma tezgahları • Taşlama ve pres ekipmanları • Kaldırma ve depolama

Bir bölüme gitmek için satıra dokunun. Sayfa numaraları PDF sayfa numarasıdır.

TEKLİF VE SİPARİŞ

Dört adımda doğru ürün

01 Ürünü belirleyin

Katalog kodu, ölçü, adet ve varsa teknik çizimi paylaşın.

02 Teknik teyit

Marka, malzeme, tolerans ve uyumluluk kontrol edilsin.

03 Teklif ve termin

Fiyat, stok, teslim süresi ve ödeme şartları netleşsin.

04 Onay ve sevkiyat

Sipariş onayı sonrası hazırlık ve teslimat takibi yapılsın.

Teklifinizi hızlandıran bilgiler

Ürün kodu • Ölçü • Adet • Malzeme • Teknik çizim • İstenen termin

Koşullar ve ticari bilgiler

- Fiyatlar ve stok durumu, teklif aşamasında ürün koduna göre teyit edilir.
- Katalog verileri sipariş öncesinde güncel üretici bilgileriyle teyit edilir.
- Görseller temsilidir; ölçü ve teknik değerler için teklifteki teknik teyit esastır.
- Teslim süresi, ödeme ve iade koşulları teklifte ürün bazında belirtilir.
- Katalog sürümü: 2026. Marka listesi güncel tedarik koşullarına göre değişebilir.

Firma bilgileri

Ticari ünvan: Vefa Kalıp Market ve Kalıp Setleri (Şahıs İşletmesi)
Vergi dairesi: Karşıyaka
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Web: www.vefakalipmarket.com.tr

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KATALOG YAPISI

Ürün kategorilerimiz

- Kalıp Yayları
- Kolon ve Burçlar
- Kalıp Elemanları
- Kalıp Parlatma Ekipmanları
- Kalıp Bağlama Ekipmanları
- Ölçüm Aletleri
- Kesici ve Tutucu Takımlar
- Atölye Ekipmanları

Her bölümün ürünleri ve ürün kodları içindekiler sayfasında listelenmiştir.

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İLETİŞİM

Teklif için bize ulaşın

Ürün kodunu, ölçüyü ve adedi iletin; teknik teyitli teklifinizi hazırlayalım.

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WEB
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WhatsApp ile teklif alın

ADRES

Adalet Mah. Manas Blv. No:47/B
K:26 D:2601 Folkart Towers A Kule
35530 Bayraklı / İZMİR

Kalite • Güven • Hassasiyet

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ÜRÜN GRUBU

01

Kalıp Yayları

Bu bölümde

01 Renk kodlu kalıp yayları

02 Poliüretan yaylar

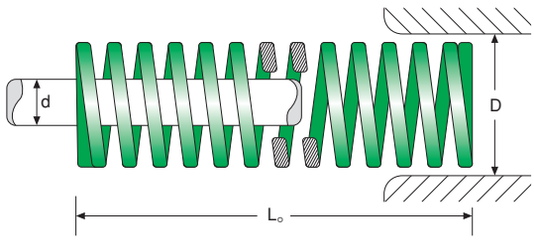
03 Gazlı yaylar

Teknik not

Ölçü ve stok bilgileri sipariş öncesinde teklif üzerinde teyit edilir.

P·S·E





YEŞİL YAY
Hafif Yük

Ürün Kodu	D	d	L_0	R	30% Uzun ömür için kapanma oranı		40% Maksimum kapanma oranı		⚠ DİKKAT Tahmini Kırılma Noktası		Amb. Adedi
	Dış Çap Ø mm	İç Çap Ø mm	Serbest Uzunluk mm.	Yük n/mm.	Kapanma Miktarı (mm)	Ağırlık N (Newton)	Kapanma Miktarı (mm)	Ağırlık N (Newton)	Kapanma Miktarı mm.	Ağırlık N (Newton)	
1S10025	10	5	25	10.0	7.5	75	10.0	100	13	130	100
1S10032			32	8.5	9.6	82	12.8	109	16	136	100
1S10038			38	6.8	11.4	78	15.2	103	20	136	100
1S10045			44	6.0	13.2	79	17.6	106	24	144	100
1S10050			51	5.0	15.3	77	20.4	102	27	135	100
1S10065			64	4.3	19.2	83	25.6	110	35	151	50
1S10075			76	3.2	22.8	73	30.4	97	39	125	50
1S10303			305	1.1	91.5	101	122.0	134	154	169	20
1S13025	12.5	6.3	25	17.9	7.5	134	10.0	179	13	233	100
1S13032			32	16.4	9.6	157	12.8	210	17	279	100
1S13038			38	13.6	11.4	155	15.2	207	21	286	100
1S13045			44	12.1	13.2	160	17.6	213	26	315	100
1S13050			51	11.4	15.3	174	20.4	233	29	331	100
1S13065			64	9.3	19.2	179	25.6	238	37	344	50
1S13075			76	7.1	22.8	162	30.4	216	42	298	50
1S13090			89	5.4	26.7	144	35.6	192	50	270	50
1S13101			102	4.6	30.6	141	40.8	188	58	267	50
1S13303			305	1.4	91.5	128	122.0	171	162	227	20
1S16025	16	8	25	23.4	7.5	176	10.0	234	13	304	100
1S16032			32	22.9	9.6	220	12.8	293	17	389	100
1S16038			38	19.3	11.4	220	15.2	293	20	386	100
1S16045			44	17.1	13.2	226	17.6	301	25	428	100
1S16050			51	15.7	15.3	240	20.4	320	27	424	100
1S16065			64	10.7	19.2	205	25.6	274	36	385	50
1S16075			76	10.0	22.8	228	30.4	304	43	430	50
1S16090			89	8.6	26.7	230	35.6	306	52	447	50
1S16101			102	7.8	30.6	239	40.8	318	58	452	50
1S16115			115	7.0	34.5	242	46.0	322	66	462	50
1S16303			305	2.5	91.5	229	122.0	305	166	415	20
1S19025	20	10	25	55.8	7.5	419	10.0	558	13	725	100
1S19032			32	45.0	9.6	432	12.8	576	17	765	100
1S19038			38	33.3	11.4	380	15.2	506	20	666	100
1S19045			44	30.0	13.2	396	17.6	528	24	720	100
1S19050			51	24.5	15.3	375	20.4	500	27	662	100
1S19065			64	20.0	19.2	384	25.6	512	35	700	50
1S19075			76	16.0	22.8	365	30.4	486	40	640	50
1S19090			89	14.0	26.7	374	35.6	498	49	686	50
1S19101			102	12.0	30.6	367	40.8	490	55	660	50
1S19115			115	10.9	34.5	376	46.0	501	62	676	20
1S19126			127	9.5	38.1	362	50.8	483	71	675	20
1S19140			139	8.4	41.7	350	55.6	467	76	638	20
1S19151			152	7.5	45.6	342	60.8	456	81	608	20
1S19303			305	4.0	91.5	366	122.0	488	168	672	10
1S26025	25	12.5	25	100.0	7.5	750	10.0	1000	12	1200	100
1S26032			32	80.3	9.6	771	12.8	1028	16	1285	50
1S26038			38	62.0	11.4	707	15.2	942	19	1178	50
1S26045			44	52.9	13.2	698	17.6	931	22	1164	50
1S26050			51	44.0	15.3	673	20.4	898	25	1100	50
1S26065			64	35.2	19.2	676	25.6	901	34	1197	50
1S26075			76	28.0	22.8	638	30.4	851	38	1064	20
1S26090			89	24.0	26.7	641	35.6	854	48	1152	20
1S26101			102	21.1	30.6	646	40.8	861	54	1139	20
1S26115			115	18.7	34.5	645	46.0	860	61	1141	20
1S26126			127	16.7	38.1	636	50.8	848	69	1152	10
1S26140			139	15.3	41.7	638	55.6	851	75	1148	10
1S26151			152	14.0	45.6	638	60.8	851	81	1134	10
1S26176			178	12.5	53.4	638	71.2	890	96	1200	10
1S26202			203	10.4	60.9	633	81.2	844	110	1144	10
1S26303			305	7.0	91.5	641	122.0	854	168	1176	5

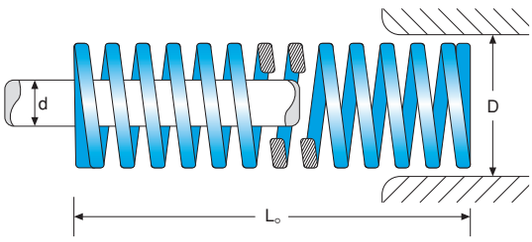
Ürün Kodu	D	d	L_0	R	30% Uzun ömür için kapanma oranı		40% Maksimum kapanma oranı		⚠ DİKKAT Tahmini Kırılma Noktası		Amb. Adedi
	Dış Çap Ø mm	İç Çap Ø mm	Serbest Uzunluk mm.	Yük n/mm.	Kapanma Miktarı (mm)	Ağırlık N (Newton)	Kapanma Miktarı (mm)	Ağırlık N (Newton)	Kapanma Miktarı mm.	Ağırlık N (Newton)	
1S32038	32	16	38	94.0	11.4	1072	15.2	1429	18	1692	20
1S32045			44	79.5	13.2	1049	17.6	1399	22	1749	20
1S32050			51	67.0	15.3	1025	20.4	1367	25	1675	20
1S32065			64	53.0	19.2	1018	25.6	1357	34	1802	20
1S32075			76	44.0	22.8	1003	30.4	1338	40	1760	20
1S32090			89	37.2	26.7	993	35.6	1324	48	1786	20
1S32101			102	32.0	30.6	979	40.8	1306	55	1760	20
1S32115			115	29.0	34.5	1001	46.0	1334	63	1827	10
1S32126			127	25.0	38.1	953	50.8	1270	69	1725	10
1S32140			139	23.0	41.7	959	55.6	1279	77	1771	10
1S32151			152	21.5	45.6	980	60.8	1307	81	1742	10
1S32176			178	18.2	53.4	972	71.2	1296	95	1729	10
1S32202			203	15.8	60.9	962	81.2	1283	112	1770	10
1S32252			254	12.5	76.2	953	101.6	1270	143	1788	5
1S32303			305	10.3	91.5	942	122.0	1257	175	1803	5
1S38050	40	20	51	92.0	15.3	1408	20.4	1877	25	2300	20
1S38065			64	73.0	19.2	1402	25.6	1869	33	2409	20
1S38075			76	63.0	22.8	1436	30.4	1915	39	2457	20
1S38090			89	51.0	26.7	1362	35.6	1816	47	2397	20
1S38101			102	43.0	30.6	1316	40.8	1754	54	2322	20
1S38115			115	39.6	34.5	1366	46.0	1822	61	2416	10
1S38126			127	37.0	38.1	1410	50.8	1880	66	2442	10
1S38140			139	32.0	41.7	1334	55.6	1779	76	2432	10
1S38151			152	28.0	45.6	1277	60.8	1702	81	2268	10
1S38176			178	25.2	53.4	1346	71.2	1794	93	2344	10
1S38202			203	22.7	60.9	1382	81.2	1843	110	2497	5
1S38252			254	17.0	76.2	1295	101.6	1727	136	2312	5
1S38303			305	14.8	91.5	1354	122.0	1806	163	2412	5
1S51065	50	25	64	156.0	19.2	2995	25.6	3994	31	4836	20
1S51075			76	125.0	22.8	2850	30.4	3800	36	4500	20
1S51090			89	109.0	26.7	2910	35.6	3880	44	4796	10
1S51101			102	94.0	30.6	2876	40.8	3835	49	4606	10
1S51115			115	81.0	34.5	2795	46.0	3726	60	4860	10
1S51126			127	71.0	38.1	2705	50.8	3607	64	4544	10
1S51140			139	66.5	41.7	2773	55.6	3697	70	4655	10
1S51151			152	60.0	45.6	2736	60.8	3648	77	4620	10
1S51176			178	52.0	53.4	2777	71.2	3702	94	4888	5
1S51202			203	44.0	60.9	2680	81.2	3573	105	4620	5
1S51229			229	38.2	68.7	2624	91.6	3499	126	4813	5
1S51252			254	35.0	76.2	2677	101.6	3556	137	4795	5
1S51303			305	28.5	91.5	2608	122.0	3477	168	4788	5
1S63075	63	38	76	189.0	22.8	4309	30.4	5746	38	7182	20
1S63090			89	158.0	26.7	4219	35.6	5625	45	7110	10
1S63101			102	131.0	30.6	4009	40.8	5345	52	6812	10
1S63115			115	116.0	34.5	4002	46.0	5336	60	6960	10
1S63126			127	103.0	38.1	3924	50.8	5232	63	6489	10
1S63151			152	84.3	45.6	3844	60.8	5125	78	6575	10
1S63176			178	71.5	53.4	3818	71.2	5091	89	6364	5
1S63202			203	61.7	60.9	3758	81.2	5010	108	6664	5
1S63252			254	47.0	76.2	3581	101.6	4775	137	6439	5
1S63303			305	38.2	91.5	3495	122.0	4660	163	6227	5

ISO 10243

1 N (newton)= 0.102 kg / 1 kg=9.81 N

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MAVİ YAY
Orta Yük

Ürün Kodu	D Dış Çap Ø mm	d İç Çap Ø mm	L_0 Serbest Uzunluk mm.	R Yük n/mm.	25% Uzun ömür için kapanma oranı: Kapanma Miktarı (mm)	25%: Ağırlık N (Newton)	37.5% Maksimum kapanma oranı: Kapanma Miktarı (mm)	37.5%: Ağırlık N (Newton)	DİKKAT Tahmini Kırılma Noktası: Kapanma Miktarı mm.	Tahmini Kırılma Noktası: Ağırlık N (Newton)	Amb. Adedi
2S10025	10	5	25	16.0	6.3	100	9.4	150	12	192	100
2S10032			32	13.0	8.0	104	12.0	156	14	182	100
2S10038			38	11.9	9.5	113	14.3	170	19	226	100
2S10045			44	10.3	11.0	113	16.5	170	23	237	100
2S10050			51	8.9	12.8	113	19.1	170	27	240	100
2S10065			64	7.5	16.0	120	24.0	180	31	233	50
2S10075			76	5.3	19.0	101	28.5	151	37	196	50
2S10303			305	1.6	76.3	122	114.4	183	137	219	20
2S13025	12.5	6.3	25	30.0	6.3	188	9.4	281	10	300	100
2S13032			32	24.8	8.0	198	12.0	298	13	322	100
2S13038			38	21.4	9.5	203	14.3	305	16	342	100
2S13045			44	18.5	11.0	204	16.5	305	20	370	100
2S13050			51	15.5	12.8	198	19.1	296	25	388	100
2S13065			64	12.1	16.0	194	24.0	290	28	339	50
2S13075			76	10.2	19.0	194	28.5	291	34	347	50
2S13090			89	8.4	22.3	187	33.4	280	41	344	50
2S13101			102	7.1	25.5	181	38.3	272	46	327	50
2S13303			305	2.1	76.3	160	114.4	240	128	269	20
2S16025	16	8	25	49.4	6.3	309	9.4	463	11	543	100
2S16032			32	37.1	8.0	297	12.0	445	15	557	100
2S16038			38	33.9	9.5	322	14.3	483	18	610	100
2S16045			44	30.0	11.0	330	16.5	495	22	660	100
2S16050			51	26.4	12.8	337	19.1	505	24	634	100
2S16065			64	20.5	16.0	328	24.0	492	32	656	50
2S16075			76	17.8	19.0	338	28.5	507	36	641	50
2S16090			89	15.2	22.3	338	33.4	507	43	654	50
2S16101			102	13.5	25.5	344	38.3	516	47	635	50
2S16115			115	12.0	28.8	346	43.1	517	52	624	50
2S16303			305	4.8	76.3	366	114.4	549	139	667	20
2S19025	20	10	25	98.0	6.3	613	9.4	919	10	980	100
2S19032			32	72.6	8.0	581	12.0	871	13	944	100
2S19038			38	56.0	9.5	532	14.3	798	16	896	100
2S19045			44	47.5	11.0	523	16.5	784	19	903	100
2S19050			51	41.7	12.8	532	19.1	798	21	876	100
2S19065			64	32.3	16.0	517	24.0	775	28	904	50
2S19075			76	25.1	19.0	477	28.5	715	33	828	50
2S19090			89	22.0	22.3	490	33.4	734	41	902	50
2S19101			102	19.8	25.5	505	38.3	757	48	950	50
2S19115			115	18.1	28.8	520	43.1	781	55	996	20
2S19126			127	16.6	31.8	527	47.6	791	61	1013	20
2S19140			139	15.1	34.8	525	52.1	787	67	1012	20
2S19151			152	13.2	38.0	502	57.0	752	74	977	20
2S19303			305	6.1	76.3	465	114.4	698	146	891	10
2S26025	25	12.5	25	147.0	6.3	919	9.4	1378	11	1617	100
2S26032			32	118.0	8.0	944	12.0	1416	13	1534	50
2S26038			38	93.0	9.5	884	14.3	1325	18	1674	50
2S26045			44	80.8	11.0	889	16.5	1333	21	1697	50
2S26050			51	68.6	12.8	875	19.1	1312	23	1578	50
2S26065			64	53.0	16.0	848	24.0	1272	30	1590	50
2S26075			76	43.2	19.0	821	28.5	1231	35	1512	20
2S26090			89	38.2	22.3	850	33.4	1275	43	1643	20
2S26101			102	33.0	25.5	842	38.3	1262	49	1617	20
2S26115			115	28.0	28.8	805	43.1	1208	56	1568	20
2S26126			127	25.9	31.8	822	47.6	1233	60	1554	10
2S26140			139	23.2	34.8	806	52.1	1209	65	1508	10
2S26151			152	20.8	38.0	790	57.0	1186	71	1477	10
2S26176			178	17.8	44.5	792	66.8	1188	85	1513	10
2S26202			203	15.8	50.8	802	76.1	1203	96	1517	10
2S26303			305	10.2	76.3	778	114.4	1167	150	1530	5

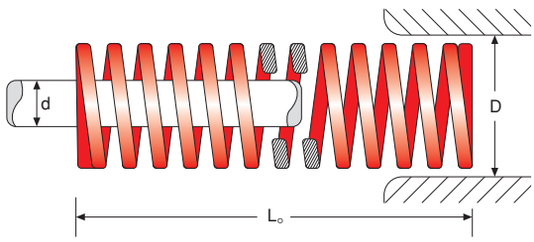
Ürün Kodu	D Dış Çap Ø mm	d İç Çap Ø mm	L_0 Serbest Uzunluk mm.	R Yük n/mm.	25% Uzun ömür için kapanma oranı: Kapanma Miktarı (mm)	25%: Ağırlık N (Newton)	37.5% Maksimum kapanma oranı: Kapanma Miktarı (mm)	37.5%: Ağırlık N (Newton)	DİKKAT Tahmini Kırılma Noktası: Kapanma Miktarı mm.	Tahmini Kırılma Noktası: Ağırlık N (Newton)	Amb. Adedi
2S32038	32	16	38	185.0	9.5	1758	14.3	2636	17	3145	20
2S32045			44	158.0	11.0	1738	16.5	2607	19	3002	20
2S32050			51	134.0	12.8	1709	19.1	2563	23	3082	20
2S32065			64	99.0	16.0	1584	24.0	2376	30	2970	20
2S32075			76	80.5	19.0	1530	28.5	2294	34	2737	20
2S32090			89	69.1	22.3	1537	33.4	2306	42	2902	20
2S32101			102	58.8	25.5	1499	38.3	2249	47	2764	20
2S32115			115	51.5	28.8	1481	43.1	2221	55	2833	10
2S32126			127	44.8	31.8	1422	47.6	2134	61	2733	10
2S32140			139	42.3	34.8	1470	52.1	2205	68	2876	10
2S32151			152	37.8	38.0	1436	57.0	2155	75	2835	10
2S32176			178	32.5	44.5	1446	66.8	2169	89	2893	10
2S32202			203	28.9	50.8	1467	76.1	2200	101	2919	10
2S32252			254	21.4	63.5	1359	95.3	2038	124	2654	5
2S32303			305	18.3	76.3	1395	114.4	2093	150	2745	5
2S38050	40	20	51	181.6	12.8	2315	19.1	3473	21	3814	20
2S38065			64	140.0	16.0	2240	24.0	3360	28	3920	20
2S38075			76	108.0	19.0	2052	28.5	3078	33	3564	20
2S38090			89	90.7	22.3	2018	33.4	3027	41	3719	20
2S38101			102	81.0	25.5	2066	38.3	3098	45	3645	20
2S38115			115	71.8	28.8	2064	43.1	3096	52	3734	10
2S38126			127	62.7	31.8	1991	47.6	2986	59	3699	10
2S38140			139	57.5	34.8	1998	52.1	2997	66	3795	10
2S38151			152	51.6	38.0	1961	57.0	2941	71	3664	10
2S38160			160	47.5	40.0	1900	60.0	2850	72	3420	10
2S38176			178	44.1	44.5	1962	66.8	2944	83	3660	10
2S38202			203	36.7	50.8	1863	76.1	2794	94	3450	5
2S38252			254	30.1	63.5	1911	95.3	2867	114	3431	5
2S38303			305	24.6	76.3	1876	114.4	2814	148	3641	5
2S51065	50	25	64	209.0	16.0	3344	24.0	5016	30	6270	20
2S51075			76	168.0	19.0	3192	28.5	4788	36	6048	20
2S51090			89	140.0	22.3	3115	33.4	4673	43	6020	10
2S51101			102	119.0	25.5	3035	38.3	4552	48	5712	10
2S51115			115	106.0	28.8	3048	43.1	4571	55	5830	10
2S51126			127	97.0	31.8	3080	47.6	4620	63	6111	10
2S51140			139	87.0	34.8	3023	52.1	4535	66	5742	10
2S51151			152	80.0	38.0	3040	57.0	4560	72	5760	10
2S51160			160	76.0	40.0	3040	60.0	4560	78	5928	10
2S51176			178	69.5	44.5	3093	66.8	4639	85	5908	5
2S51202			203	59.8	50.8	3035	76.1	4552	95	5681	5
2S51229			229	50.9	57.3	2914	85.9	4371	114	5803	5
2S51252			254	43.9	63.5	2788	95.3	4181	125	5488	5
2S51303			305	38.6	76.3	2943	114.4	4415	150	5790	5
2S63075	63	38	76	312.0	19.0	5928	28.5	8892	30	9360	20
2S63090			89	260.0	22.3	5785	33.4	8678	38	9880	10
2S63101			102	221.0	25.5	5636	38.3	8453	43	9503	10
2S63115			115	187.0	28.8	5376	43.1	8064	50	9350	10
2S63126			127	168.0	31.8	5334	47.6	8001	52	8736	10
2S63151			152	136.0	38.0	5168	57.0	7752	67	9112	10
2S63160			160	128.0	40.0	5120	60.0	7680	70	8960	10
2S63176			178	114.0	44.5	5073	66.8	7610	78	8892	5
2S63202			203	100.0	50.8	5075	76.1	7613	88	8800	5
2S63229			229	89.2	57.3	5107	85.9	7660	102	9098	5
2S63252			254	78.4	63.5	4978	95.3	7468	115	9016	5
2S63303			305	64.7	76.3	4933	114.4	7400	134	8670	5
2S63315			315	62.8	78.8	4946	118.1	7418	144	9043	5
2S63400			400	48.5	100.0	4850	150.0	7275	197	9555	5

ISO 10243

1 N (newton)= 0.102 kg / 1 kg=9.81 N

P·S·E





KIRMIZI YAY
Ağır Yük

Ürün Kodu	D	d	L_0	R	20% Uzun ömür için kapanma oranı		30% Maksimum kapanma oranı		DİKKAT Tahmini Kırılma Noktası		Amb. Adedi
	Dış Çap Ø mm	İç Çap Ø mm	Serbest Uzunluk mm.	Yük n/mm.	Kapanma Miktarı (mm)	Ağırlık N (Newton)	Kapanma Miktarı (mm)	Ağırlık N (Newton)	Kapanma Miktarı mm.	Ağırlık N (Newton)	
3S10025	10	5	25	22.1	5.0	111	7.5	166	9	199	100
3S10032			32	17.5	6.4	112	9.6	168	12	210	100
3S10038			38	17.1	7.6	130	11.4	195	15	257	100
3S10045			44	15.0	8.8	132	13.2	198	17	255	100
3S10050			51	12.8	10.2	131	15.3	196	21	269	100
3S10065			64	10.7	12.8	137	19.2	205	26	278	50
3S10075			76	7.5	15.2	114	22.8	171	31	233	50
3S10303			305	2.1	61.0	128	91.5	192	122	256	20
3S13025	12.5	6.3	25	42.1	5.0	211	7.5	316	9	379	100
3S13032			32	33.2	6.4	212	9.6	319	13	432	100
3S13038			38	29.3	7.6	223	11.4	334	15	440	100
3S13045			44	24.6	8.8	216	13.2	325	18	443	100
3S13050			51	19.6	10.2	200	15.3	300	20	392	100
3S13065			64	15.0	12.8	192	19.2	288	26	390	50
3S13075			76	13.2	15.2	201	22.8	301	30	396	50
3S13090			89	11.4	17.8	203	26.7	304	35	399	50
3S13101			102	9.4	20.4	192	30.6	287	41	385	50
3S13303			305	2.8	61.0	171	91.5	256	123	344	20
3S16025	16	8	25	75.7	5.0	379	7.5	568	9	681	100
3S16032			32	52.8	6.4	338	9.6	507	14	739	100
3S16038			38	48.5	7.6	369	11.4	553	17	825	100
3S16045			44	42.8	8.8	377	13.2	565	20	856	100
3S16050			51	37.1	10.2	378	15.3	568	21	779	100
3S16065			64	30.3	12.8	388	19.2	582	28	848	50
3S16075			76	25.8	15.2	391	22.8	586	33	848	50
3S16090			89	21.7	17.8	386	26.7	579	39	846	50
3S16101			102	19.3	20.4	394	30.6	591	44	849	50
3S16115			115	17.0	23.0	391	34.5	587	49	833	50
3S16303			305	7.1	61.0	433	91.5	650	127	902	20
3S19025	20	10	25	216.0	5.0	1080	7.5	1620	9	1944	100
3S19032			32	168.0	6.4	1075	9.6	1613	11	1848	100
3S19038			38	129.0	7.6	980	11.4	1471	13	1677	100
3S19045			44	112.0	8.8	986	13.2	1478	16	1792	100
3S19050			51	94.0	10.2	959	15.3	1438	20	1880	100
3S19065			64	72.1	12.8	923	19.2	1384	25	1803	50
3S19075			76	59.7	15.2	907	22.8	1361	29	1731	50
3S19090			89	50.5	17.8	899	26.7	1348	35	1768	50
3S19101			102	44.2	20.4	902	30.6	1353	40	1768	50
3S19115			115	38.4	23.0	883	34.5	1325	47	1805	20
3S19126			127	34.1	25.4	866	38.1	1299	52	1773	20
3S19140			139	31.0	27.8	862	41.7	1293	57	1767	20
3S19151			152	28.2	30.4	857	45.6	1286	62	1748	20
3S19303			305	15.0	61.0	915	91.5	1373	121	1815	10
3S26025	25	12.5	25	375.0	5.0	1875	7.5	2813	9	3375	100
3S26032			32	297.0	6.4	1901	9.6	2851	11	3267	50
3S26038			38	219.0	7.6	1664	11.4	2497	14	3066	50
3S26045			44	187.0	8.8	1646	13.2	2468	16	2992	50
3S26050			51	156.0	10.2	1591	15.3	2387	19	2964	50
3S26065			64	123.0	12.8	1574	19.2	2362	26	3198	50
3S26075			76	99.0	15.2	1505	22.8	2257	29	2871	20
3S26090			89	84.0	17.8	1495	26.7	2243	35	2940	20
3S26101			102	73.0	20.4	1489	30.6	2234	39	2847	20
3S26115			115	65.0	23.0	1495	34.5	2243	45	2925	20
3S26126			127	57.7	25.4	1466	38.1	2198	48	2770	10
3S26140			139	52.7	27.8	1465	41.7	2198	54	2846	10
3S26151			152	47.8	30.4	1453	45.6	2180	60	2868	10
3S26176			178	41.0	35.6	1460	53.4	2189	67	2747	10
3S26202			203	35.8	40.6	1453	60.9	2180	80	2864	10
3S26303			305	22.9	61.0	1397	91.5	2095	119	2725	5

Ürün Kodu	D	d	L_0	R	20% Uzun ömür için kapanma oranı		30% Maksimum kapanma oranı		DİKKAT Tahmini Kırılma Noktası		Amb. Adedi
	Dış Çap Ø mm	İç Çap Ø mm	Serbest Uzunluk mm.	Yük n/mm.	Kapanma Miktarı (mm)	Ağırlık N (Newton)	Kapanma Miktarı (mm)	Ağırlık N (Newton)	Kapanma Miktarı mm.	Ağırlık N (Newton)	
3S32038	32	16	38	388.0	7.6	2949	11.4	4423	13	5044	20
3S32045			44	324.0	8.8	2851	13.2	4277	16	5184	20
3S32050			51	272.0	10.2	2774	15.3	4162	18	4896	20
3S32065			64	212.0	12.8	2714	19.2	4070	23	4876	20
3S32075			76	172.0	15.2	2614	22.8	3922	27	4644	20
3S32090			89	141.0	17.8	2510	26.7	3765	33	4653	20
3S32101			102	122.0	20.4	2489	30.6	3733	39	4758	20
3S32115			115	107.0	23.0	2461	34.5	3692	43	4601	10
3S32126			127	93.0	25.4	2362	38.1	3543	47	4371	10
3S32140			139	86.0	27.8	2391	41.7	3586	51	4386	10
3S32151			152	78.0	30.4	2371	45.6	3557	55	4290	10
3S32176			178	67.2	35.6	2392	53.4	3588	69	4637	10
3S32202			203	59.1	40.6	2399	60.9	3599	81	4787	10
3S32252			254	46.4	50.8	2357	76.2	3536	99	4594	5
3S32303			305	38.0	61.0	2318	91.5	3477	119	4522	5
3S38050	40	20	51	350.0	10.2	3570	15.3	5355	18	6300	20
3S38065			64	269.0	12.8	3443	19.2	5165	25	6725	20
3S38075			76	219.0	15.2	3329	22.8	4993	30	6570	20
3S38090			89	190.0	17.8	3382	26.7	5073	36	6840	20
3S38101			102	163.0	20.4	3325	30.6	4988	41	6683	20
3S38115			115	142.0	23.0	3266	34.5	4899	47	6674	10
3S38126			127	128.0	25.4	3251	38.1	4877	53	6784	10
3S38140			139	115.0	27.8	3197	41.7	4796	56	6440	10
3S38151			152	105.0	30.4	3192	45.6	4788	62	6510	10
3S38176			178	89.0	35.6	3168	53.4	4753	70	6230	10
3S38202			203	77.0	40.6	3126	60.9	4689	83	6391	5
3S38252			254	61.0	50.8	3099	76.2	4648	101	6161	5
3S38303			305	51.0	61.0	3111	91.5	4667	127	6477	5
3S51065	50	25	64	413.0	12.8	5286	19.2	7930	26	10738	20
3S51075			76	339.0	15.2	5153	22.8	7729	29	9831	20
3S51090			89	288.0	17.8	5126	26.7	7690	35	10080	10
3S51101			102	245.0	20.4	4998	30.6	7497	41	10045	10
3S51115			115	215.0	23.0	4945	34.5	7418	47	10105	10
3S51126			127	192.0	25.4	4877	38.1	7315	55	10560	10
3S51140			139	168.0	27.8	4670	41.7	7006	61	10248	10
3S51151			152	154.0	30.4	4682	45.6	7022	66	10164	10
3S51176			178	134.0	35.6	4770	53.4	7156	75	10050	5
3S51202			203	117.0	40.6	4750	60.9	7125	87	10179	5
3S51252			254	89.0	50.8	4521	76.2	6782	108	9612	5
3S51303			305	73.0	61.0	4453	91.5	6680	133	9709	5
3S63075	63	38	76	630.0	15.2	9576	22.8	14364	24	15120	20
3S63090			89	485.0	17.8	8633	26.7	12950	32	15520	10
3S63101			102	434.0	20.4	8854	30.6	13280	36	15624	10
3S63115			115	384.0	23.0	8832	34.5	13248	40	15360	10
3S63126			127	349.0	25.4	8865	38.1	13297	44	15356	10
3S63151			152	276.0	30.4	8390	45.6	12586	56	15456	10
3S63176			178	237.0	35.6	8437	53.4	12656	65	15405	5
3S63202			203	210.0	40.6	8526	60.9	12789	74	15540	5
3S63252			254	165.0	50.8	8382	76.2	12573	94	15510	5
3S63303			305	134.0	61.0	8174	91.5	12261	115	15410	5

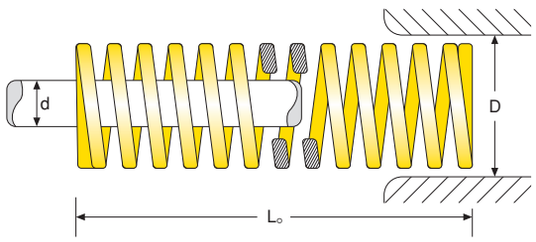
Tel Kesiti 1.8 x 1.4 | Tel Kesiti 2.4 x 2.0 | Tel Kesiti 3.0 x 2.4 | Tel Kesiti 4.0 x 3.2 | Tel Kesiti 5.6 x 4.1 | Tel Kesiti 6.9 x 5.3 | Tel Kesiti 8.4 x 6.2 | Tel Kesiti 11.3 x 7.4 | Tel Kesiti 12.5 x 11.0

ISO 10243

1 N (newton)= 0.102 kg / 1 kg=9.81 N

P·S·E





SARI YAY

Ekstra Ağır Yük

Ürün Kodu	D Dış Çap Ø mm	d İç Çap Ø mm	L_0 Serbest Uzunluk mm.	R Yük n/mm.	17% Uzun ömür için kapanma oranı: Kapanma Miktarı (mm)	17%: Ağırlık N (Newton)	25% Maksimum kapanma oranı: Kapanma Miktarı (mm)	25%: Ağırlık N (Newton)	DİKKAT Tahmini Kırılma Noktası: Kapanma Miktarı mm.	Kırılma Noktası: Ağırlık N (Newton)	Amb. Adedi
4S10025	10	5	25	36.8	4.3	156	6.3	230	9	331	100
4S10032			32	27.9	5.4	152	8.0	223	12	335	100
4S10038			38	23.7	6.5	153	9.5	225	14	332	100
4S10045			44	19.2	7.5	144	11.0	211	17	326	100
4S10050	Tel Kesiti 1.9 x 1.5		51	16.5	8.7	143	12.8	210	19	314	100
4S10065			64	13.2	10.9	144	16.0	211	23	304	50
4S10075			76	10.9	12.9	141	19.0	207	30	327	50
4S10303			305	2.6	51.9	135	76.3	198	117	304	20
4S13025	12.5	6.3	25	58.5	4.3	249	6.3	366	9	527	100
4S13032			32	43.9	5.4	239	8.0	351	12	527	100
4S13038			38	36.0	6.5	233	9.5	342	14	504	100
4S13045			44	30.3	7.5	227	11.0	333	18	545	100
4S13050	Tel Kesiti 2.3 x 2.2		51	26.2	8.7	227	12.8	334	20	524	100
4S13065			64	21.2	10.9	231	16.0	339	27	572	50
4S13075			76	17.1	12.9	221	19.0	325	32	547	50
4S13090			89	14.5	15.1	219	22.3	323	38	551	50
4S13101			102	12.5	17.3	216	25.5	319	41	513	50
4S13303			305	4.3	51.9	223	76.3	328	115	495	20
4S16025	16	8	25	118.0	4.3	502	6.3	738	10	1180	100
4S16032			32	89.0	5.4	484	8.0	712	12	1068	100
4S16038			38	72.1	6.5	466	9.5	685	14	1009	100
4S16045			44	60.9	7.5	456	11.0	670	17	1035	100
4S16050	Tel Kesiti 3.2 x 2.7		51	52.3	8.7	453	12.8	667	19	994	100
4S16065			64	41.2	10.9	448	16.0	659	25	1030	50
4S16075			76	34.1	12.9	441	19.0	648	29	989	50
4S16090			89	29.5	15.1	446	22.3	656	36	1062	50
4S16101			102	25.6	17.3	444	25.5	653	38	973	50
4S16115			115	22.8	19.6	447	28.8	657	43	980	50
4S16303			305	8.4	51.9	436	76.3	641	120	1008	20
4S19025	20	10	25	293.0	4.3	1245	6.3	1831	7	2051	100
4S19032			32	224.0	5.4	1219	8.0	1792	10	2240	100
4S19038			38	177.0	6.5	1143	9.5	1682	12	2124	100
4S19045			44	149.0	7.5	1115	11.0	1639	14	2086	100
4S19050			51	128.0	8.7	1110	12.8	1632	16	2048	100
4S19065	Tel Kesiti 4.1 x 3.7		64	99.0	10.9	1077	16.0	1584	22	2178	50
4S19075			76	81.7	12.9	1056	19.0	1552	25	2043	50
4S19090			89	69.5	15.1	1052	22.3	1546	31	2155	50
4S19101			102	60.6	17.3	1051	25.5	1545	36	2182	50
4S19115			115	53.0	19.6	1036	28.8	1524	42	2226	20
4S19126			127	47.5	21.6	1026	31.8	1508	43	2043	20
4S19140			139	43.0	23.6	1016	34.8	1494	48	2064	20
4S19151			152	39.0	25.8	1008	38.0	1482	52	2028	20
4S19303			305	21.2	51.9	1099	76.3	1617	105	2226	10
4S26025	25	12.5	25	488.0	4.3	2098	6.3	3074	8	3904	100
4S26032			32	374.4	5.4	2037	8.0	2995	11	4118	50
4S26038			38	346.0	6.5	2235	9.5	3287	13	4498	50
4S26045			44	244.0	7.5	1825	11.0	2684	16	3904	50
4S26050			51	207.5	8.7	1799	12.8	2646	18	3735	50
4S26065			64	161.0	10.9	1752	16.0	2576	23	3703	50
4S26075			76	130.8	12.9	1690	19.0	2485	26	3401	20
4S26090			89	110.5	15.1	1672	22.3	2459	31	3426	20
4S26101	Tel Kesiti 5.6 x 4.6		102	96.3	17.3	1670	25.5	2456	36	3467	20
4S26115			115	85.7	19.6	1675	28.8	2464	41	3514	20
4S26126			127	76.3	21.6	1647	31.8	2423	47	3586	10
4S26140			139	69.5	23.6	1640	34.8	2419	44	3058	10
4S26151			152	63.5	25.8	1641	38.0	2413	54	3429	10
4S26176			178	53.9	30.3	1631	44.5	2399	63	3396	10
4S26202			203	47.0	34.5	1622	50.8	2385	72	3384	10
4S26303			305	30.9	51.9	1602	76.3	2356	113	3492	5

Ürün Kodu	D Dış Çap Ø mm	d İç Çap Ø mm	L_0 Serbest Uzunluk mm.	R Yük n/mm.	17% Uzun ömür için kapanma oranı: Kapanma Miktarı (mm)	17%: Ağırlık N (Newton)	25% Maksimum kapanma oranı: Kapanma Miktarı (mm)	25%: Ağırlık N (Newton)	DİKKAT Tahmini Kırılma Noktası: Kapanma Miktarı mm.	Kırılma Noktası: Ağırlık N (Newton)	Amb. Adedi
4S32038	32	16	38	528.2	6.5	3412	9.5	5018	12	6338	20
4S32045			44	424.4	7.5	3175	11.0	4668	15	6366	20
4S32050			51	353.0	8.7	3061	12.8	4501	17	6001	20
4S32065			64	269.2	10.9	2929	16.0	4307	22	5922	20
4S32075			76	218.5	12.9	2823	19.0	4152	25	5463	20
4S32090			89	180.3	15.1	2728	22.3	4012	33	5950	20
4S32101			102	155.0	17.3	2688	25.5	3953	36	5580	20
4S32115	Tel Kesiti 7.2 x 5.6		115	140.0	19.6	2737	28.8	4025	42	5880	10
4S32126			127	124.0	21.6	2677	31.8	3937	46	5704	10
4S32140			139	112.0	23.6	2643	34.8	3898	51	5712	10
4S32151			152	102.0	25.8	2636	34.8	3842	51	5630	10
4S32176			178	88.2	30.3	2669	44.5	3925	64	5645	10
4S32202			203	76.0	34.5	2623	50.8	3857	71	5396	10
4S32252			254	60.8	43.2	2625	63.5	3861	90	5472	5
4S32303			305	49.0	51.9	2541	76.3	3736	103	5047	5
4S38050	40	20	51	628.0	8.7	5445	12.8	8007	17	10676	20
4S38065			64	487.0	10.9	5299	16.0	7792	23	11201	20
4S38075			76	379.0	12.9	4897	19.0	7201	27	10233	20
4S38090			89	321.0	15.1	4857	22.3	7142	31	9951	20
4S38101			102	281.0	17.3	4873	25.5	7166	36	10116	20
4S38115			115	245.0	19.6	4790	28.8	7044	40	9800	10
4S38126	Tel Kesiti 8.7 x 7.3		127	221.0	21.6	4771	31.8	7017	44	9724	10
4S38140			139	202.0	23.6	4773	34.8	7020	52	10504	10
4S38151			152	168.0	25.8	4341	38.0	6384	56	9408	10
4S38176			178	148.0	30.3	4478	44.5	6586	61	9028	10
4S38202			203	132.0	34.5	4555	50.8	6699	73	9636	5
4S38252			254	107.0	43.2	4620	63.5	6795	93	9951	5
4S38303			305	87.8	51.9	4552	76.3	6695	106	9307	5
4S51065	50	25	64	709.0	10.9	7714	16.0	11344	21	14889	20
4S51075			76	572.0	12.9	7390	19.0	10868	25	14300	20
4S51090			89	475.0	15.1	7187	22.3	10569	28	13300	10
4S51101			102	405.0	17.3	7023	25.5	10328	33	13365	10
4S51115			115	352.0	19.6	6882	28.8	10120	38	13376	10
4S51126			127	316.0	21.6	6822	31.8	10033	43	13588	10
4S51140	Tel Kesiti 11.4 x 9.1		139	289.0	23.6	6829	34.8	10043	47	13583	10
4S51151			152	239.0	25.8	6176	38.0	9082	53	12667	10
4S51176			178	216.0	30.3	6536	44.5	9612	60	12960	5
4S51202			203	187.0	34.5	6453	50.8	9490	71	13277	5
4S51252			254	153.0	43.2	6607	63.5	9716	91	13923	5
4S51303			305	127.0	51.9	6585	76.3	9684	106	13462	5
4S63075	63	38	76	842.0	12.9	10879	19.0	15998	24	20208	20
4S63090			89	726.0	15.1	10984	22.3	16154	28	20328	10
4S63101			102	656.0	17.3	11375	25.5	16728	31	20336	10
4S63115			115	534.0	19.6	10440	28.8	15353	38	20292	10
4S63126			127	480.0	21.6	10363	31.8	15240	42	20160	10
4S63151	Tel Kesiti 13.3 x 11.8		152	396.0	25.8	10233	38.0	15048	51	20196	10
4S63176			178	335.0	30.3	10137	44.5	14908	60	20100	5
4S63202			203	297.0	34.5	10249	50.8	15073	68	20196	5
4S63252			254	235.0	43.2	10147	63.5	14923	85	19975	5
4S63303			305	194.0	51.9	10059	76.3	14793	103	19982	5

ISO 10243

1 N (newton)= 0.102 kg / 1 kg=9.81 N

Poliüretan Yaylar (Vulkolon)



Vulkolon Yaylar

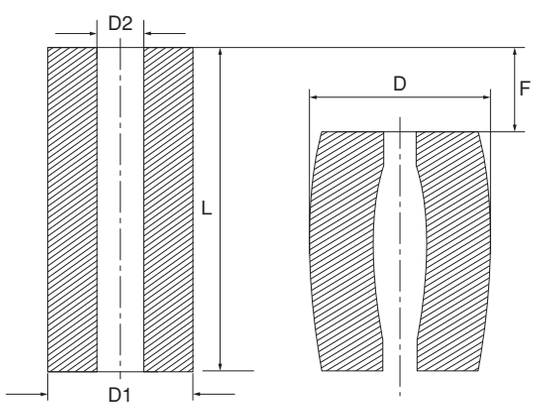


90 Shore Poliüretan
Maksimum Esneme Payı % 25



80 Shore Poliüretan
Maksimum Esneme Payı % 30

D1 (Dış Çap)	d2 (Delik Çapı)	L (Tam Boy)	Sarı (80 Shore) P Yük / kg	D Es. Max. Çap	F Es. Max. Boy	Kırmızı (90 Shore) P Yük / kg	D Es. Max. Çap	F Es. 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	400		9.6	510		8
		40	380		12.0	500		10
		50	365		15.0	480		12.5
32	13.5	16	730	42	4.8	930	40	4
		20	720		6.0	900		5
		25	690		7.5	880		6.25
		32	670		9.6	850		8
		40	650		12.0	820		10
		50	635		15.0	810		12.5
40	13.5	20	1280	52	6.0	1620	50	5
		25	1260		7.5	1550		6.25
		32	1180		9.6	1500		8
		40	1170		12.0	1450		10
		50	1120		15.0	1410		12.5
		69	1100		18.9	1380		15.75
50	17	25	1980	65	7.5	2500	62	6.25
		32	1910		9.6	2400		8
		40	1850		12.0	2300		10
		50	1810		15.0	2250		12.5
		63	1760		18.9	2200		15.75
		80	1730		24.0	2150		20
63	17	32	3400	82	9.6	4200	78	9
		40	3200		12.0	4050		10
		50	3100		15.0	3900		12.5
		63	3000		18.9	3800		15.75
		80	2900		24.0	3700		20
		100	2800		30.0	3600		25
80	21	40	5500	104	12.0	6900	99	10
		50	5250		15.0	6600		12.5
		63	5050		18.9	6400		15.75
		80	4900		24.0	6200		20
		100	4750		30.0	6000		25
		125	4650		37.5	5800		31.25
100	21	63	8600	130	18.9	10800	125	15.75
		80	8250		24.0	10400		20
		100	8000		30.0	10000		25
		125	7600		37.5	9700		31.25
		160	7500		48.0	9500		40
125	27	63	14200	160	18.9	17600	156	15.75
		80	13200		24.0	16800		20
		100	12800		30.0	16000		25
		125	12400		37.5	15300		31.25
		160	12000		48.0	15000		40



Poliüretan Kalıp Yaylarının Standart Çap ve Boyları

D1	d2	L
16	-	310
16	6.0	310
20	-	310
20	8.5	310
25	-	310
25	10.5	310
32	-	310
32	13.5	310
40	-	310
40	13.5	310
50	-	310
50	17	310
63	-	310
63	17	310
80	-	310
80	21	310
100	-	310
100	21	310
125	-	310
125	27	310

İsteğinize göre özel ölçülerde tedarik edilmektedir.

İŞLETME VE ÇALIŞMA ŞARTLARI

Azot (Nitrojen-N2) gazı, 150 Bar basınca erişinceye kadar silindir içine doldurulur. Gaz basıncı piston miline etki yapar ve meydana çıkan kuvvet, piston milini başlangıç kuvvetine eşit oluncaya kadar dışarıya iter. (DaN cinsinden ölçülen güç, azot gazının piston miline uygulandığı basınçtır.) Piston mili, silindir içerisine itildiğinde haznede bulunan gazı sıkıştırarak ve hacmini azaltarak kuvveti arttırır.

Azot silindirler sıradan mekanik yaylar gibi davranırlar, fakat buna karşılık ön yüklemeye gerek duymazlar. Silindirler, sızdırmaz olarak tasarlandıklarından,çalışma sırasında, montajda doldurulan özel yağı muhafaza ederler, hareketli kılavuzların özellikleri ve kullanılan contaların karakteristikleri nedeniyle silindirler haricen yağlanmaksızın her durumda çalışabilirler.

Sistemin uzun süreli çalıştırılmaması halinde, koruyucu olmasın bakımından, contaların sızdırmazlıklarını optimize etmek gayesiyle, iş başlangıcında, on (10) çalışma devrinin yaptırılması tavsiye edilir.
Sistem çalıştırılırken **0.8 – 1.8 m/sn.** Piston hızının geçilmemesini öneririz.

ÇALIŞMA ISISI

İzin verilen en yüksek çalışma sıcaklığı **80°C** dir, daha yüksek sıcaklıklar contaların karakteristiklerini bozabilir. Aşırı ısınmadan sakının, silindir içindeki basıncı arttırır.

1°C ısı artışı : **0.367 bar** basınç artışına neden olur.

ALFA azot silindirin doldurma basıncı :**150 Bar.**

ALFA AZOT SİLİNDİRLERİNİN ÖMRÜ

Normal şartlarda kullanılıyorsa ve montajı doğru yapıldı ise, azot silindirlerin **75000 lineer metre** için garanti edilirler. (Bu ölçü, piston çalışma boyunun, gidiş geliş olarak toplanmasını ile elde edilmiştir.)
Özellikle, kritik çalışma şartlarında veya harici şartlar nedeniyle ürünün arızalanması halinde, contaları ve tahrip olan parçaları değiştirmek gerekli olabilir.

SİLİNDİR TİPİNİN SEÇİMİ

ALFA azot silindirleri;
Geleneksel yaylar gibi tek başına kullanılabilirler,
Birbirleriyle birleştirilebilirler,
Bir kontrol panosu vasıtası ile tüm sistemin dışarıdan idaresi sağlanabilir, çalışma kuvveti yükleme basıncına göre değiştirebilir.
Silindirler, çalışma darbesi sırasında artan kuvveti azaltmak için bir genleşme tankına bağlanabilirler.

UYARILAR

Alfa azot silindirlerinin uzun ömürlü ve sorunsuz çalışması için, kullanıcılara kullanım sırasında aşağıdaki önlemleri almalarını öneriniz:
- Silindirler azot gazıyla ve 150 bar basınçla doldurulmuştur,
Kesinlikle gövde ve pistona müdahale etmeyin, delmeyin ve hasara meydan vermeyin.



GAZLI YAYLARIN AVANTAJLARI

Çak sayıda yay ile karşılanabilen kuvvetler daha az sayıda gazlı yaylar ile karşılanabilmektedir.

Yayların serbest halde iken kuvvetleri 0 “sıfır” dır. Bunun için yayaları kurmak gerekir. Gazlı yaylarda ise basınçta da istenen kuvvet sağlanabilir.

Yayların çalışma mesafesi, Boyların % 30 ‘ u civarındadır. Gazlı yayalarda ise daha kısa boylarda, aynı stok ve kuvvet sağlanabilir.

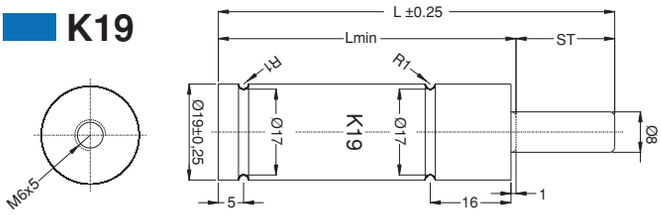
Yaylar belirli bir çalışma süresi sonunda esnekliklerini kaybederek deforme olur ya da kırılırlar. Deforme olan veya kırılan yayı değiştirmek gerekir. Ayrıca yay kırılması gibi durumlarda kalıp zarar görebilir.
Gazlı yaylarda bu tür problemler ile karşılaşılmaz, gazlı yaylar tek tek çalıştırılabildiği gibi birkaç tanesi bağlanarak tek bir yay gibi de çalıştırılabilir. Grup halinde çalışan gazlı yayların kontrol panosu vasıtası ile basınçları sürekli kontrol altında tutulabilir.

GAZLI YAYLARIN AVANTAJLARI SAYESİNDE

- ZAMAN KAYBINDAN,
- İŞÇİLİKTEN
- MONTAJ MALZEMESİNDEN
- KALIP MALZEMESİNDEN
- KALIP KALINLIĞI ve KALIP AĞIRLIĞINDAN.

TASARRUF EDİLİR, BURDA MALİYETLERİN DAHA DÜŞÜK OLMASINI SAĞLAR.

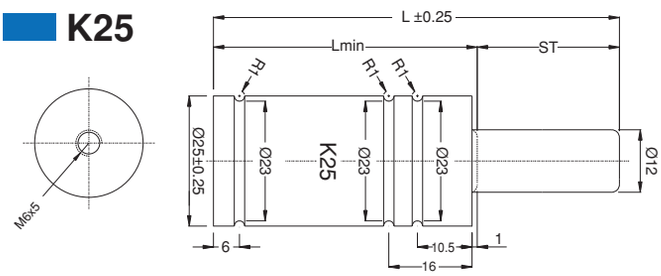
K19



Pmin : 10 Bar / 145 PSI
Pmax : 180 Bar / 2610 PSI
S : 0.5 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST	L	Lmin	F_0	F_1	serial
	mm	mm	mm	daN (±%5)		
K19 007	7	56	49	90	---	---
K19 010	10	62	52	90	---	---
K19 015	15	72	57	90	---	---
K19 025	25	92	67	90	---	---
K19 038	38	118	80	90	---	---
K19 050	50	142	92	90	---	---
K19 063	63	172	109	90	---	---
K19 080	80	205	125	90	---	---
K19 100	100	245	145	90	---	---
K19 125	125	295	170	90	---	---

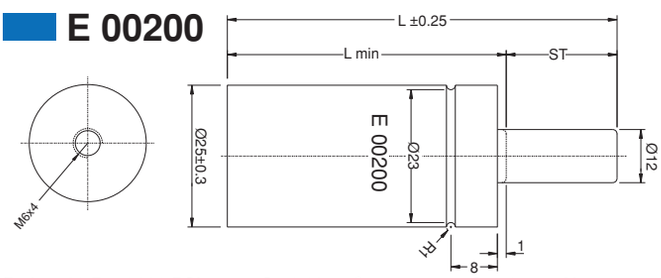
K25



Pmin : 10 Bar / 145 PSI
Pmax : 180 Bar / 2610 PSI
S : 1.13 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST	L	Lmin	F_0	F_1	serial
	mm	mm	mm	daN (±%5)		
K25 007	7	56	49	200	---	---
K25 010	10	62	52	200	---	---
K25 015	15	72	57	200	---	---
K25 025	25	92	67	200	---	---
K25 038	38	118	80	200	---	---
K25 050	50	142	92	200	---	---
K25 063	63	172	109	200	---	---
K25 080	80	205	125	200	---	---
K25 100	100	245	145	200	---	---
K25 125	125	295	170	200	---	---

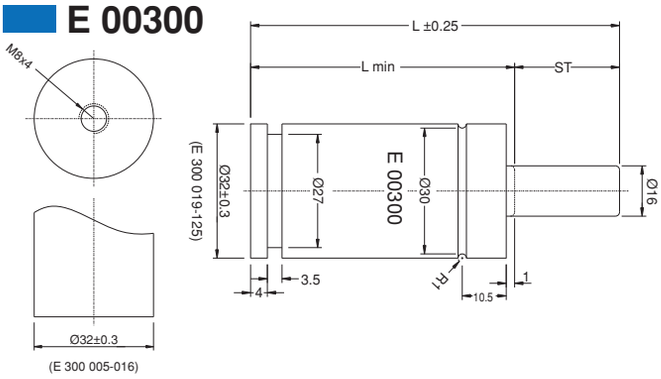
E 00200



Pmin : 20 Bar / 290 PSI
Pmax : 175 Bar / 2538 PSI
S : 1.13 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST	L	Lmin	F_0	F_1	serial
	mm	mm	mm	daN (±%5)		
E 00200 005	5	40	35	200	267	-
E 00200 010	10	50	40	200	285	-
E 00200 013	13	56	43	200	295	-
E 00200 016	16	62	46	200	300	-
E 00200 019	19	68	49	200	308	-
E 00200 025	25	80	55	200	310	-
E 00200 032	32	94	62	200	317	-

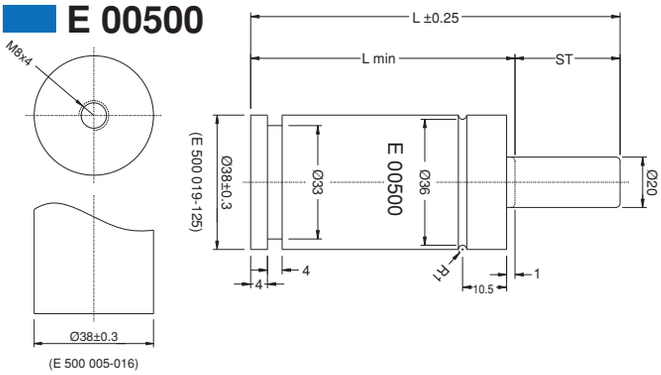
E 00300



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 2.01 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST	L	Lmin	F_0	F_1	serial
	mm	mm	mm	daN (±%5)		
E 00300 005	5	40	35	300	495	-
E 00300 010	10	50	40	300	486	-
E 00300 013	13	56	43	300	450	-
E 00300 016	16	62	46	300	450	-
E 00300 019	19	68	49	300	468	-
E 00300 025	25	80	55	300	465	-
E 00300 032	32	94	62	300	465	-
E 00300 038	38	106	68	300	468	-
E 00300 050	50	130	80	300	480	-
E 00300 063	63	156	93	300	480	-
E 00300 075	75	180	105	300	480	-
E 00300 080	80	190	110	300	465	-
E 00300 100	100	230	130	300	462	-
E 00300 125	125	280	155	300	462	-

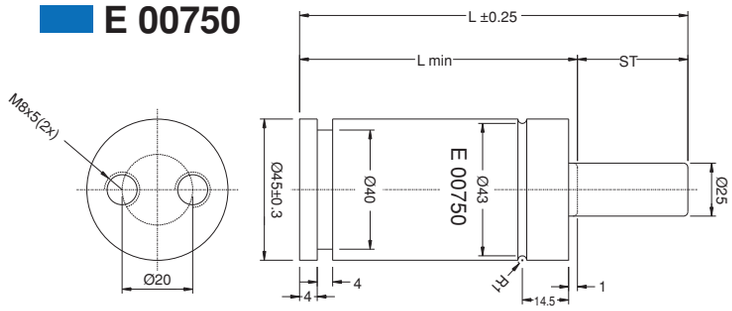
E 00500



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 3.14 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST	L	Lmin	F_0	F_1	serial
	mm	mm	mm	daN (±%5)		
E 00500 005	5	40	35	470	752	-
E 00500 010	10	50	40	470	729	-
E 00500 013	13	56	43	470	714	-
E 00500 016	16	62	46	470	719	-
E 00500 019	19	68	49	470	738	-
E 00500 025	25	80	55	470	733	-
E 00500 032	32	94	62	470	729	-
E 00500 038	38	106	68	470	719	-
E 00500 050	50	130	80	470	729	-
E 00500 063	63	156	93	470	719	-
E 00500 075	75	180	105	470	714	-
E 00500 080	80	190	110	470	719	-
E 00500 100	100	230	130	470	719	-
E 00500 125	125	280	155	470	719	-

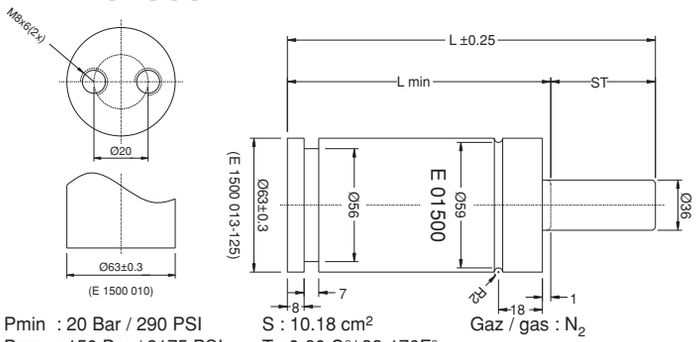
E 00750



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 4.91 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
E 00750 010	10	52	42	736	1.214	-
E 00750 013	13	58	45	736	1.214	-
E 00750 016	16	64	48	736	1.214	-
E 00750 019	19	70	51	736	1.178	-
E 00750 025	25	82	57	736	1.178	-
E 00750 032	32	96	64	736	1.178	-
E 00750 038	38	108	70	736	1.178	-
E 00750 050	50	132	82	736	1.178	-
E 00750 063	63	158	95	736	1.178	-
E 00750 075	75	182	107	736	1.200	-
E 00750 080	80	192	112	736	1.200	-
E 00750 100	100	232	132	736	1.200	-
E 00750 125	125	282	157	736	1.200	-

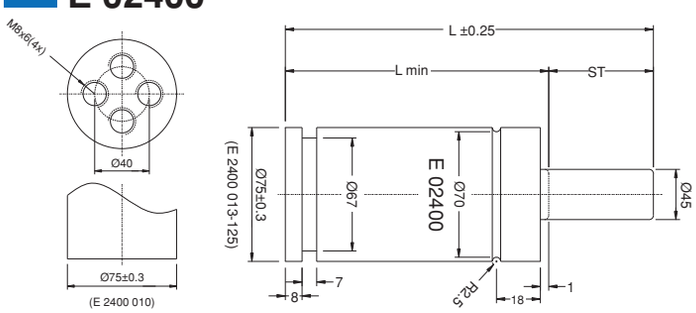
E 01500



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 10.18 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
E 01500 010	10	64	54	1.520	2.432	-
E 01500 013	13	70	57	1.520	2.462	-
E 01500 016	16	76	60	1.520	2.462	-
E 01500 019	19	82	63	1.520	2.462	-
E 01500 025	25	94	69	1.520	2.478	-
E 01500 032	32	108	76	1.520	2.432	-
E 01500 038	38	120	82	1.520	2.462	-
E 01500 050	50	144	94	1.520	2.432	-
E 01500 063	63	170	107	1.520	2.432	-
E 01500 075	75	194	119	1.520	2.462	-
E 01500 080	80	204	124	1.520	2.478	-
E 01500 100	100	244	144	1.520	2.493	-
E 01500 125	125	294	169	1.520	2.493	-

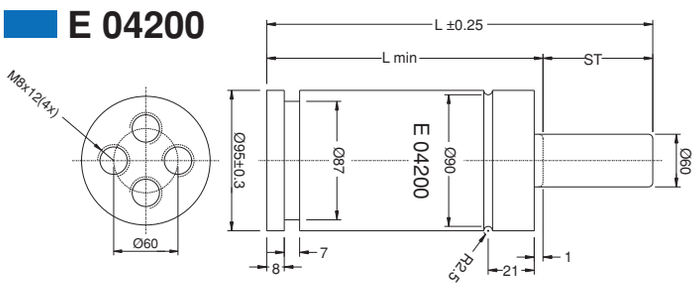
E 02400



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 15.90 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
E 02400 010	10	65	55	2.385	4.055	-
E 02400 013	13	71	58	2.385	4.055	-
E 02400 016	16	77	61	2.385	3.935	-
E 02400 019	19	83	64	2.385	3.816	-
E 02400 025	25	95	70	2.385	3.816	-
E 02400 032	32	109	77	2.385	3.816	-
E 02400 038	38	121	83	2.385	3.816	-
E 02400 050	50	145	95	2.385	3.911	-
E 02400 063	63	171	108	2.385	3.935	-
E 02400 075	75	195	120	2.385	3.935	-
E 02400 080	80	205	125	2.385	3.935	-
E 02400 100	100	245	145	2.385	3.935	-
E 02400 125	125	295	170	2.385	3.935	-

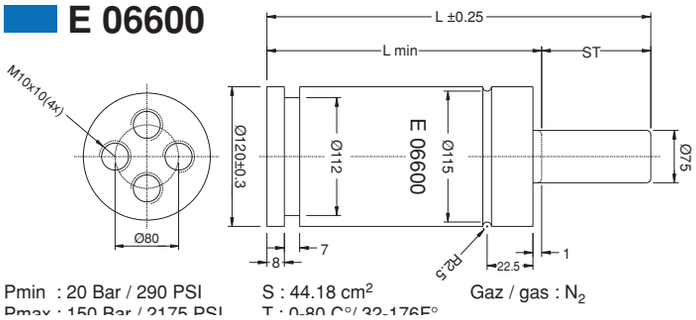
E 04200



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 28.27 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
E 04200 016	16	90	74	4.240	6.233	OK
E 04200 019	19	96	77	4.240	6.487	OK
E 04200 025	25	108	83	4.240	6.614	OK
E 04200 032	32	122	90	4.240	6.572	OK
E 04200 038	38	134	96	4.240	6.699	OK
E 04200 050	50	158	108	4.240	6.742	OK
E 04200 063	63	184	121	4.240	6.869	OK
E 04200 075	75	208	133	4.240	6.996	OK
E 04200 080	80	218	138	4.240	6.996	OK
E 04200 100	100	258	158	4.240	6.996	OK
E 04200 125	125	308	183	4.240	7.038	OK

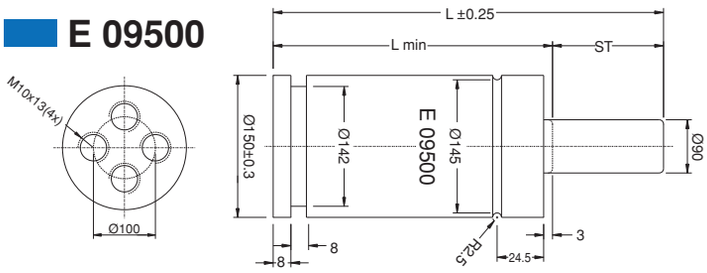
E 06600



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 44.18 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
E 06600 016	16	100	84	6.630	8.910	OK
E 06600 019	19	106	87	6.630	9.050	OK
E 06600 025	25	118	93	6.630	9.300	OK
E 06600 032	32	132	100	6.630	9.580	OK
E 06600 038	38	144	106	6.630	9.770	OK
E 06600 050	50	168	118	6.630	10.050	OK
E 06600 063	63	194	131	6.630	10.250	OK
E 06600 075	75	218	143	6.630	10.300	OK
E 06600 080	80	228	148	6.630	10.400	OK
E 06600 100	100	268	168	6.630	10.550	OK
E 06600 125	125	318	193	6.630	10.650	OK

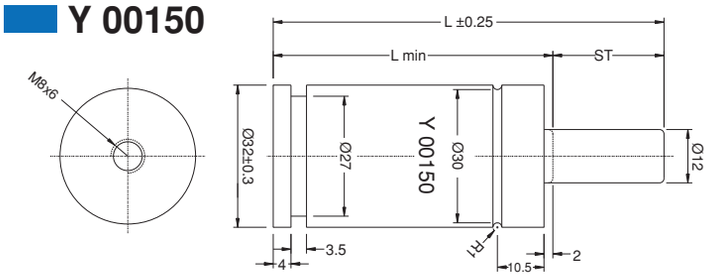
E 09500



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 63.62 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
E 09500 019	19	116	97	9.54 2	13.550	OK
E 09500 025	25	128	103	9.54 2	13.836	OK
E 09500 032	32	142	110	9.54 2	14.313	OK
E 09500 038	38	154	116	9.54 2	14.695	OK
E 09500 050	50	178	128	9.54 2	14.981	OK
E 09500 063	63	204	141	9.54 2	15.076	OK
E 09500 075	75	228	153	9.54 2	15.267	OK
E 09500 080	80	238	158	9.54 2	15.267	OK
E 09500 100	100	278	178	9.54 2	15.267	OK
E 09500 125	125	328	203	9.54 2	15.267	OK

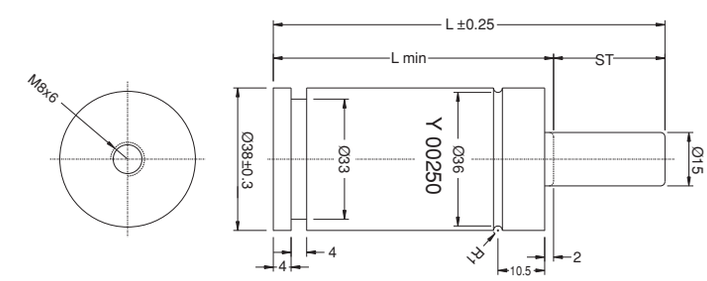
Y 00150



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 1.13 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
Y 00150 010	10	70	60	170	222	-
Y 00150 013	13	76	63	170	224	-
Y 00150 016	16	82	66	170	225	-
Y 00150 025	25	100	75	170	228	-
Y 00150 038	38	126	88	170	230	-
Y 00150 050	50	150	100	170	231	-
Y 00150 063	63	177	114	170	232	-
Y 00150 080	80	210	130	170	233	-
Y 00150 100	100	250	150	170	234	-
Y 00150 125	125	300	175	170	234	-

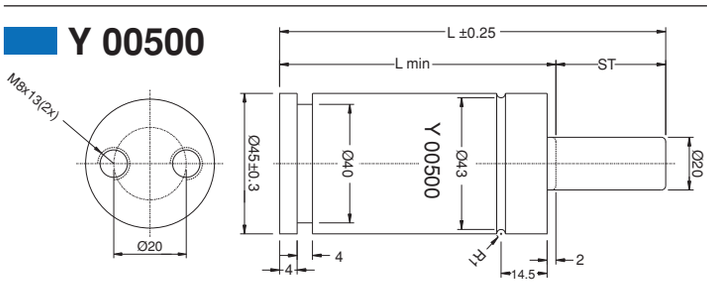
Y 00250



Pmin : 20 Bar / 290 PSI
Pmax : 175 Bar / 2538 PSI
S : 1.77 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
Y 00250 010	10	70	60	260	346	-
Y 00250 013	13	76	63	260	343	-
Y 00250 016	16	82	66	260	390	-
Y 00250 019	19	88	69	260	348	-
Y 00250 025	25	100	75	260	351	-
Y 00250 038	38	126	88	260	351	-
Y 00250 050	50	150	100	260	351	-
Y 00250 063	63	177	114	260	351	-
Y 00250 080	80	210	130	260	351	-
Y 00250 100	100	250	150	260	351	-
Y 00250 125	125	300	175	260	351	-

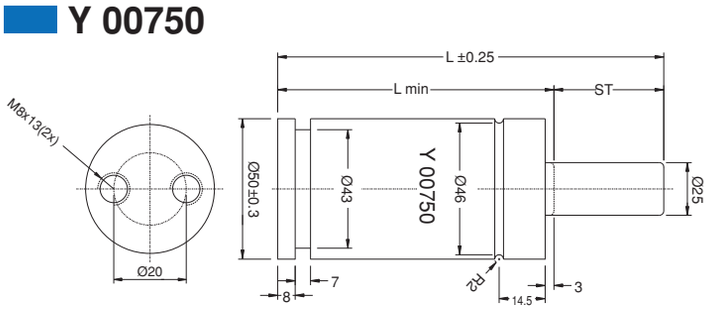
Y 00500



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 3.14 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
Y 00500 010	10	105	95	470	650	OK
Y 00500 013	13	111	98	470	660	OK
Y 00500 025	25	135	110	470	680	OK
Y 00500 038	38	161	123	470	682	OK
Y 00500 050	50	185	135	470	682	OK
Y 00500 063	63	212	149	470	682	OK
Y 00500 080	80	245	165	470	682	OK
Y 00500 100	100	285	185	470	682	OK
Y 00500 125	125	335	210	470	682	OK
Y 00500 160	160	405	245	470	682	OK

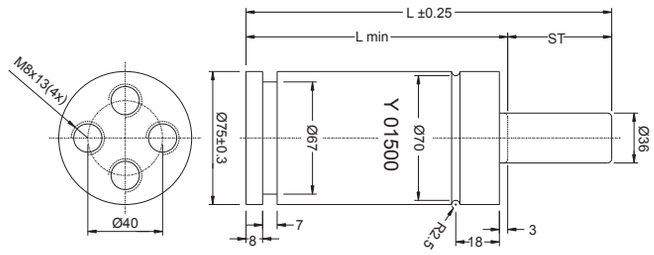
Y 00750



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 4.91 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
Y 00750 013	13	121	108	736	1.19 2	OK
Y 00750 025	25	145	120	736	1.21 4	OK
Y 00750 038	38	171	133	736	1.21 4	OK
Y 00750 050	50	195	145	736	1.21 4	OK
Y 00750 063	63	222	159	736	1.21 4	OK
Y 00750 080	80	255	175	736	1.21 4	OK
Y 00750 100	100	295	195	736	1.21 4	OK
Y 00750 125	125	345	220	736	1.21 4	OK
Y 00750 160	160	415	255	736	1.21 4	OK
Y 00750 200	200	495	295	736	1.21 4	OK
Y 00750 250	250	595	345	736	1.21 4	OK
Y 00750 300	300	695	395	736	1.21 4	OK

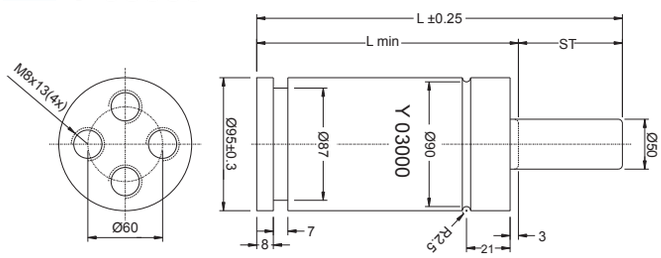
Y 01500



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 10.18 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
Y 01500 025	25	160	135	1.52 0	2.25 0	OK
Y 01500 038	38	186	148	1.52 0	2.25 0	OK
Y 01500 050	50	210	160	1.52 0	2.25 0	OK
Y 01500 063	63	237	174	1.52 0	2.25 0	OK
Y 01500 080	80	270	190	1.52 0	2.25 0	OK
Y 01500 100	100	310	210	1.52 0	2.25 0	OK
Y 01500 125	125	360	235	1.52 0	2.25 0	OK
Y 01500 160	160	430	270	1.52 0	2.25 0	OK
Y 01500 200	200	510	310	1.52 0	2.25 0	OK
Y 01500 250	250	610	360	1.52 0	2.25 0	OK
Y 01500 300	300	710	410	1.52 0	2.25 0	OK

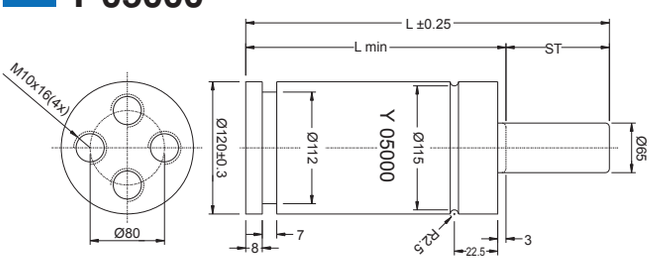
Y 03000



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 19.63 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
Y 03000 025	25	170	145	2.94 5	4.41 8	OK
Y 03000 038	38	196	158	2.94 5	4.47 6	OK
Y 03000 050	50	220	170	2.94 5	4.50 6	OK
Y 03000 063	63	247	184	2.94 5	4.56 5	OK
Y 03000 080	80	280	200	2.94 5	4.59 4	OK
Y 03000 100	100	320	220	2.94 5	4.59 4	OK
Y 03000 125	125	370	245	2.94 5	4.62 4	OK
Y 03000 160	160	440	280	2.94 5	4.65 3	OK
Y 03000 200	200	520	320	2.94 5	4.65 3	OK
Y 03000 250	250	620	370	2.94 5	4.65 3	OK
Y 03000 300	300	720	420	2.94 5	4.71 2	OK

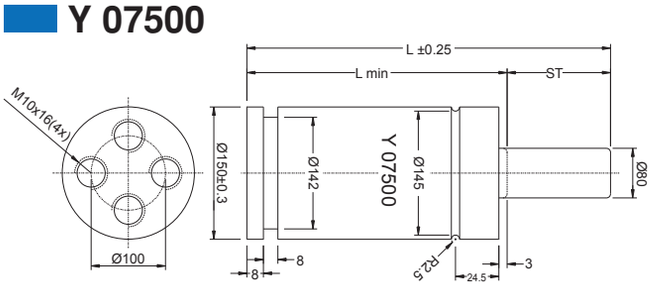
Y 05000



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 33.18 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
Y 05000 025	25	190	165	5.00 0	7.45 0	OK
Y 05000 038	38	216	178	5.00 0	7.65 0	OK
Y 05000 050	50	240	190	5.00 0	7.75 0	OK
Y 05000 063	63	267	204	5.00 0	7.80 0	OK
Y 05000 080	80	300	220	5.00 0	7.90 0	OK
Y 05000 100	100	340	240	5.00 0	8.00 0	OK
Y 05000 125	125	390	265	5.00 0	8.00 0	OK
Y 05000 160	160	460	300	5.00 0	8.10 0	OK
Y 05000 200	200	540	340	5.00 0	8.25 0	OK
Y 05000 250	250	640	390	5.00 0	8.25 0	OK
Y 05000 300	300	740	440	5.00 0	8.25 0	OK

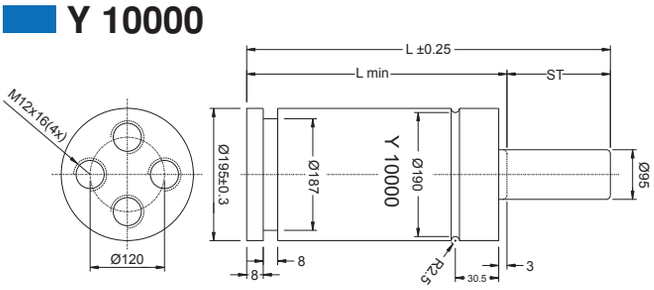
Y 07500



Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 50.27 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
Y 07500 025	25	205	180	7.54 0	11.310	OK
Y 07500 038	38	231	193	7.54 0	11.461	OK
Y 07500 050	50	255	205	7.54 0	11.687	OK
Y 07500 063	63	282	219	7.54 0	11.762	OK
Y 07500 080	80	315	235	7.54 0	11.989	OK
Y 07500 100	100	355	255	7.54 0	12.064	OK
Y 07500 125	125	405	280	7.54 0	12.290	OK
Y 07500 160	160	475	315	7.54 0	12.290	OK
Y 07500 200	200	555	355	7.54 0	12.441	OK
Y 07500 250	250	655	405	7.54 0	12.441	OK
Y 07500 300	300	755	455	7.54 0	12.441	OK

Y 10000



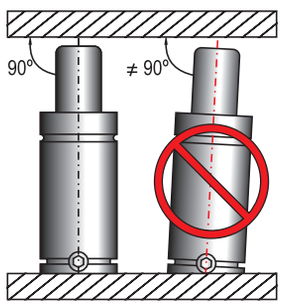
Pmin : 20 Bar / 290 PSI
Pmax : 150 Bar / 2175 PSI
S : 70.88 cm²
T : 0-80 C°/ 32-176F°
Gaz / gas : N_2

KOD	ST mm	L mm	Lmin mm	F_0 daN (±%5)	F_1 daN (±%5)	serial
Y 10000 025	25	210	185	10.600	16.960	OK
Y 10000 038	38	236	198	10.600	16.536	OK
Y 10000 050	50	260	210	10.600	16.430	OK
Y 10000 063	63	287	224	10.600	16.430	OK
Y 10000 080	80	320	240	10.600	16.536	OK
Y 10000 100	100	360	260	10.600	16.748	OK
Y 10000 125	125	410	285	10.600	16.748	OK
Y 10000 160	160	480	320	10.600	16.748	OK
Y 10000 200	200	560	360	10.600	16.748	OK
Y 10000 250	250	660	410	10.600	16.748	OK
Y 10000 300	300	760	460	10.600	16.960	OK

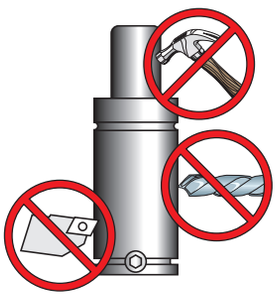
Gazlı Yay Kullanma Talimatı



Silindiri tanımlanan maksimum değerler dışında kullanmayınız



Silindiri dikey pozisyona getiriniz



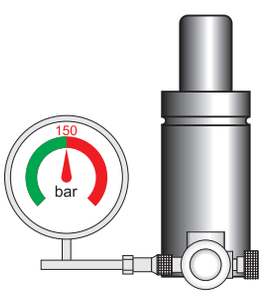
Gövde veya mil üzerinde herhangi bir mekanik işlem yapmayınız



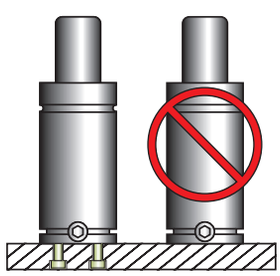
Silindir yüzeyinin sıvı veya katı maddelerle kirlenmesine izin vermeyiniz



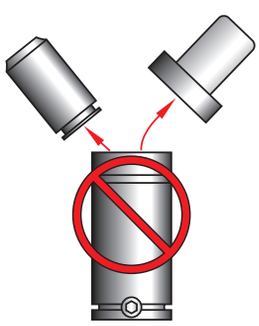
Silindiri azot N_2 dışında herhangi bir gazla şarj etmeyiniz



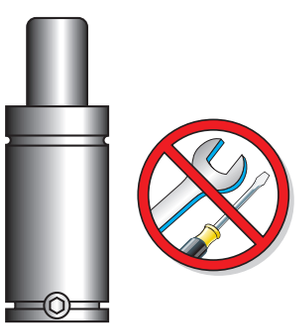
Silindiri 150 bardan daha fazla basınçla şarj etmeyiniz



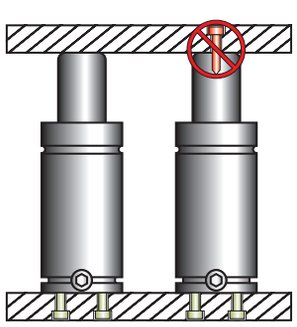
Silindiri emniyete almadan monte etmeyiniz



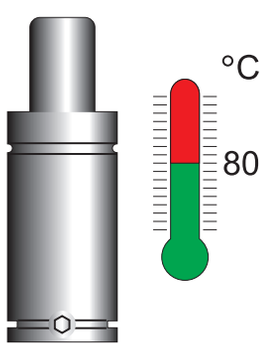
Silindiri sökmeyiniz



Görevlisinden başkasının bakım yapmasına izin vermeyiniz



Silindiri emniyete alırken milin üstündeki deliği kullanmayınız



Gaz silindirini kullanırken kalıp sıcaklığının 80°C' yi geçmesine izin vermeyiniz (şek. B11)

VEFA
KALIP MARKET
ve KALIP SETLERİ

ÜRÜN GRUBU

02

Kolon ve Burçlar

Bu bölümde

01 Kolon ve kılavuz elemanları

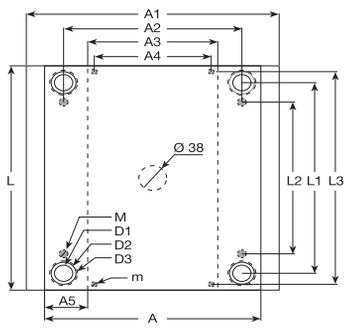
02 Burç ve bilyalı kafesler

03 Merkezleme elemanları

Teknik not

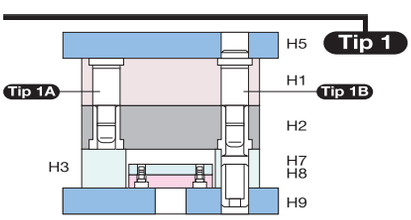
Ölçü ve stok bilgileri sipariş öncesinde teklif üzerinde teyit edilir.

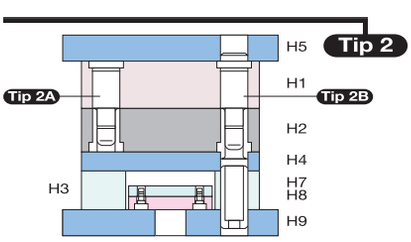
Standart Enjeksiyon Kalıp Setleri

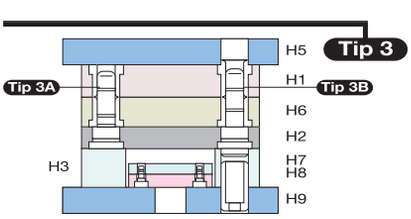


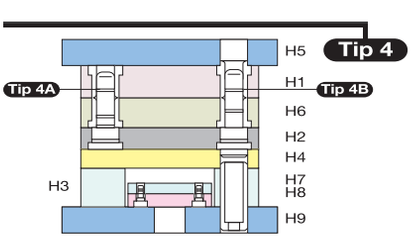


İstenilen ölçülerde kalıp seti imal edilir.



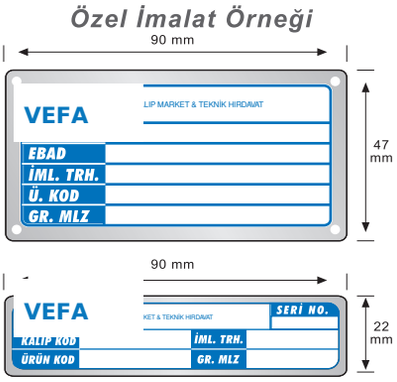






A	L	H1 H2	H6	H4	H3	H5 H9	H7	H8	A1	A2	A3	A4	A5	L1	L2	L3	D1	D2	m	M
156	156	27 & 87	27 & 87	27 & 47	57 & 77	27	14 & 17	17	196	114	80	58	37	114	62	134	16	24	M8	M10
	196													154	102	174				
	246													204	152	224				
	296													254	202	274				
196	196	27 & 87	27 & 87	27 & 47	57 & 77	27	14 & 17	17	246	154	120 100	98 78	37 47	154	102	174	16	24	M8	M10
	246													204	152	224				
	296													254	202	274				
	346													304	252	324	20	28		
	396													354	302	374				
246	246	27 & 97	27 & 97	27 & 47	57 & 97	27 & 37	14 & 17	17	296	194	148 128	126 106	47 57	194	134	224	20	28	M8	M12
	296													244	184	274				
	346													294	234	324				
	396													344	284	374	25	34		
	446													394	334	424				
296	296	27 & 107	27 & 107	27 & 57	57 & 97	27 & 37	17 & 22	22	346	244	198 178	176 156	47 57	244	184	274	25	34	M8	M12
	346													294	234	324				
	396													344	284	374				
	446													394	334	424				
	496													444	384	474				
346	346	37 & 107	37 & 107	27 & 57	57 & 97	37 & 47	17 & 22	22	396	294	248 228	224 204	47 57	294	218	322	25	34	M10	M16
	396													344	268	372				
	446													394	318	422				
	496													444	368	472				
	546													494	418	522				
396	396	37 & 117	37 & 117	27 & 57	77 & 117	37 & 57	22 & 27	27	446	330	276 256	252 232	57 67	330	244	372	30	39	M10	M16
	446													380	294	422				
	496													430	344	472				
	546													480	394	522				
	596													530	444	572				
446	446	37 & 117	37 & 117	37 & 67	77 & 117	37 & 57	22 & 27	27	496	380	326 306 286	302 282 262	57 67 77	380	294	422	30	39	M10	M16
	496													430	344	472				
	546													480	394	522				
	596													530	444	572				
	646													580	494	622				
496	496	37 & 117	37 & 117	37 & 67	77 & 117	37 & 57	22 & 27	27	546	430	376 356 336	352 332 312	57 67 77	430	344	472	30	39	M10	M16
	546													480	394	522				
	596													530	444	572				
	646													580	494	622				
	696													630	544	672				
546	546	47 & 127	47 & 127	47 & 77	77 & 137	47 & 67	22 & 27	27 & 37	596	466	405 385 365	375 355 335	67 77 87	466	356	516	40	54	M12	M20
	596													516	406	566				
	646													566	456	616				
	696													616	506	666				
	746													666	556	716				
596	596	47 & 127	47 & 127	47 & 77	77 & 137	47 & 67	22 & 27	27 & 37	646	516	455 435 415	425 405 385	67 77 87	516	406	566	40	54	M12	M20
	646													566	456	616				
	696													616	506	666				
	746													666	556	716				
	796													716	606	776				

Özel İmalat Örneği

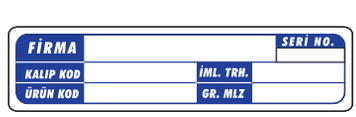


Kalıp Etiketi

- Kalıp etiketi, her çeşit kalıp üzerine kimliklendirmek için kullanılır.
- Aşağıdaki şekillerde 'hazır kalıp etiket örnekleri' sunulmuştur.
- Örnekler harici tamamen isteğe bağlı olarak şekil, renk değişimleri uygulanarak yeni ve orjinal etiketler hazırlanabilir. İsteğe bağlı olarak firma logolu, adresli uygulamalarda yapılabilir.
- Sadece kalıp için değil makina etiketlendirmek içinde ebatlar dahilinde özel tasarımlar ile etiketler kullanılabilmektedir.
- Etiket'in ebatları standart 2 çeşittir.
- Standart etiketlerin siparişleri verildiği andan itibaren kısa zaman içerisinde teslim edilebilmekle birlikte özel etiketlerin siparişleri esnasında termin süresi isteyiniz.
- Özel kalıp etiketlerinin siparişleri minimum 300 ad. olmalıdır.

Renk Örneği





U01

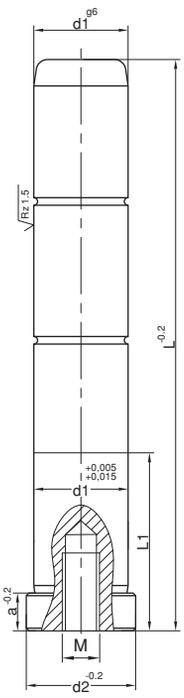
Şapkalı Kolon
Guide Pillar

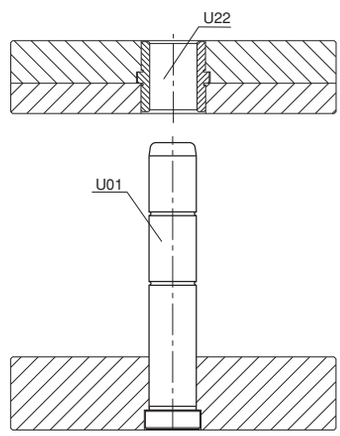
Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened











Sipariş Kodu	d1	L	L1	d2	a	M
U01-1260	12	60	22	16	10	-
80		80				
100		100	27			
120		120				
140		140	36			
160		160				
U01-1460	14	60	22	18	10	-
80		80				
100		100	27			
120		120				
140		140	36			
160		160				
180		180	46			
U01-1660	16	60	22	20	10	6
80		80				
100		100	27			
120		120				
140		140	36			
160		160				
180		180	46			
200		200	56			
220		220				
250		250	66			
U01-1860	18	60	22	22	10	6
80		80				
100		100	27			
120		120				
140		140	36			
160		160				
180		180	46			
200		200	56			
U01-2060	20	60	22	24	10	8
80		80				
100		100	27			
120		120				
140		140	36			
160		160				

Sipariş Kodu	d1	L	L1	d2	a	M
U01-20180	20	180	46	24	10	8
200		200	56			
220		220				
250		250	66			
280		280				
300		300	76			
315		315				
U01-25100	25	100	27	29	10	8
120		120				
140		140	36			
160		160				
180		180	46			
200		200	56			
220		220				
250		250	66			
300		300	76			
U01-30100	30	100	27	34	12	8
120		120				
140		140	36			
160		160				
180		180	46			
200		200	56			
220		220				
250		250	66			
300		300	76			
U01-40160	40	160	36	48	15	10
180		180	46			
200		200	56			
220		220				
250		250	66			
280		280				
300		300	76			
315		320				
360		360				

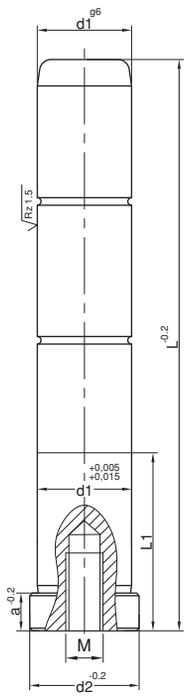
U01H

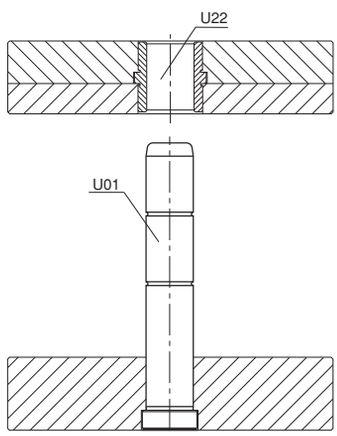
Şapkalı Kolon
Guide Pillar

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened









Sipariş Kodu	d1	L	L1	d2	a	M
U01H-1040	10	40	17	12	3	-
60		60	22			
80		80				
100		100	27			
120		120				
U01H-1240	12	40	17	16	6	-
60		60	22			
80		80				
100		100	27			
120		120	36			
140		140				
160		160				
U01H-1460	14	60	22	18	8	-
80		80				
100		100	27			
120		120	36			
140		140				
160		160				
180		180	46			
U01H-1640	16	40	17	20	8	6
60		60	22			
80		80				
100		100	36			
120		120				
140		140				
160		160	46			
180		180				
200		200	56			
U01H-1860	18	60	22	22	8	6
80		80				
100		100	36			
120		120				
140		140				
U01H-18160	18	160	46	24	8	6
180		180				
200		200	56			
240		240				

Sipariş Kodu	d1	L	L1	d2	a	M
U01H-2060	20	60	22	24	8	8
80		80				
100		100	36			
120		120				
140		140				
160		160	46			
180		180				
200		200	56			
240		240	76			
U01H-2280	22	80	22	28	15	8
100		100	36			
120		120				
140		140				
160		160	46			
180		180	56			
200		200				
220		220				
240		240	66			
300		300				
U01H-2480	24	80	22	28	15	8
100		100	36			
120		120				
140		140				
160		160	46			
180		180	56			
200		200				
220		220				
240		240	66			
300		300				
U01H-30100	30	100	36	36	15	8
120		120				
140		140				
160		160	46			
180		180	56			
200		200	66			
220		220				
240		240				
300		300	76			
360		360				

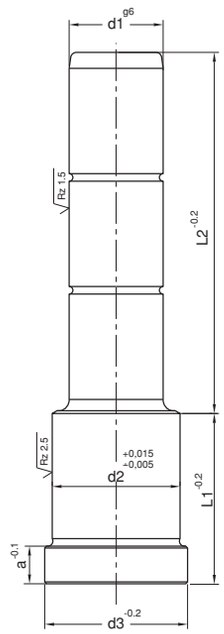
U02

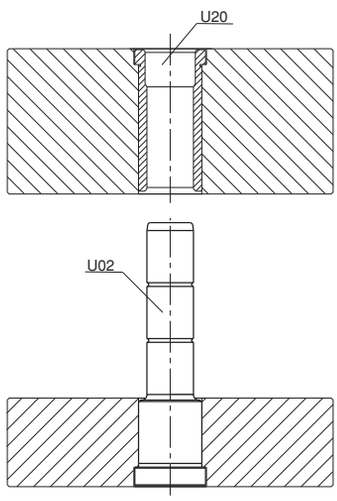
Şapkalı Kademeli Kolon
Guide Pillar

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened









Sipariş Kodu	d1	L1	L2	d2	d3	a
U02-122626	12	26	26	16	19	4
36			36			
46			46			
56			56			
U02-123626	12	36	26	16	19	4
36			36			
46			46			
56			56			
U02-124626	12	46	26	16	19	4
36			36			
46			46			
56			56			
66			66			
U02-142626	14	26	26	20	25	6
36			36			
46			46			
56			56			
66			66			
76			76			
U02-143626	14	36	26	20	25	6
36			36			
46			46			
56			56			
66			66			
86			86			
U02-144626	14	46	26	20	25	6
36			36			
46			46			
56			56			
76			76			
96			96			
U02-145626	14	56	26	20	25	6
36			36			

Sipariş Kodu	d1	L1	L2	d2	d3	a
U02-145646	14	56	46	20	25	6
66			66			
86			86			
106			106			
U02-162626	16	26	26	24	28	6
36			36			
46			46			
56			56			
76			76			
96			96			
U02-163626	16	36	26	24	28	6
36			36			
46			46			
56			56			
66			66			
86			86			
106			106			
U02-164626	16	46	26	24	28	6
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
116			116			
U02-165626	16	56	26	24	28	6
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
116			116			

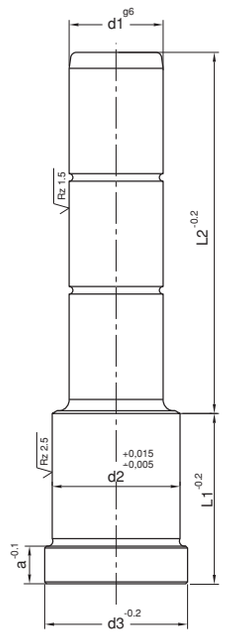
U02

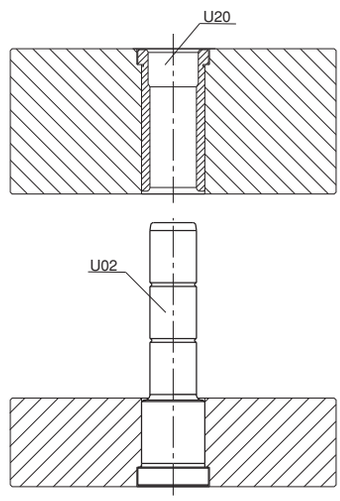
Şapkalı Kademeli Kolon
Guide Pillar

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened









Sipariş Kodu	d1	L1	L2	d2	d3	a
U02-166626	16	66	26	24	28	6
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
116			116			
U02-167626	16	76	26	24	28	6
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
116			116			
U02-168626	16	86	26	24	28	6
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
116			116			
U02-182626	18	26	26	26	31	6
36			36			
46			46			
56			56			
66			66			
86			86			
U02-183626	18	36	26	26	31	6
36			36			

Sipariş Kodu	d1	L1	L2	d2	d3	a
U02-183646	18	36	46	26	31	6
56			56			
66			66			
86			86			
106			106			
U02-184626	18	46	26	26	31	6
36			36			
46			46			
56			56			
66			66			
86			86			
106			106			
126			126			
U02-185626	18	56	26	26	31	6
36			36			
46			46			
56			56			
66			66			
86			86			
106			106			
126			126			
U02-186626	18	66	26	26	31	6
36			36			
56			56			
76			76			
96			96			
116			116			
U02-187626	18	76	26	26	31	6
46			46			
66			66			
86			86			
106			106			
126			126			

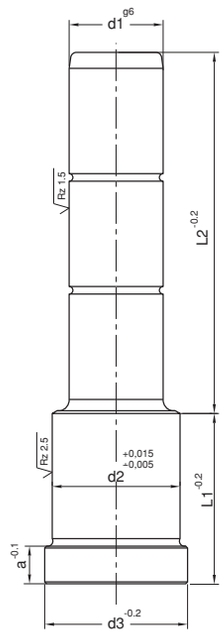
U02

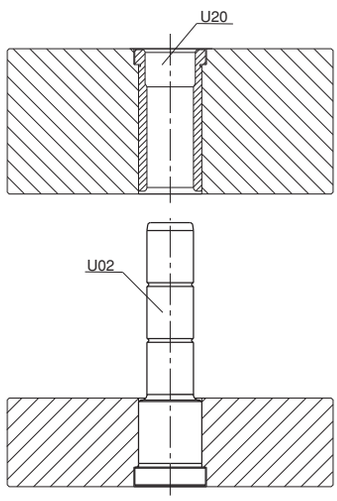
Şapkalı Kademeli Kolon
Guide Pillar

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
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Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened









Sipariş Kodu	d1	L1	L2	d2	d3	a
U02-188626	18	86	26	26	31	6
46			46			
66			66			
86			86			
106			106			
126			126			
U02-202626	20	26	26	28	32	6
36			36			
46			46			
56			56			
66			66			
86			86			
U02-203626	20	36	26	28	32	6
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
U02-204626	20	46	26	28	32	6
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
U02-205626	20	56	26	28	32	6
36			36			
46			46			
56			56			
66			66			
76			76			

Sipariş Kodu	d1	L1	L2	d2	d3	a
U02-205696	20	56	96	28	32	6
116			116			
U02-206626	20	66	26	28	32	6
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
116			116			
U02-207626	20	76	26	28	32	6
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
126			126			
U02-208626	20	86	26	28	32	6
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
126			126			
U02-209626	20	96	26	28	32	6
36			36			
46			46			
56			56			
66			66			

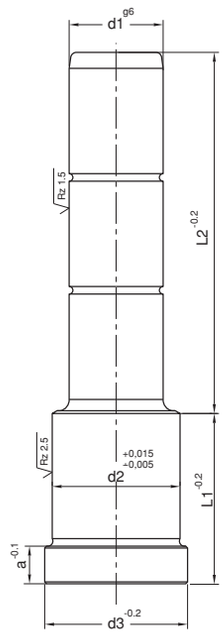
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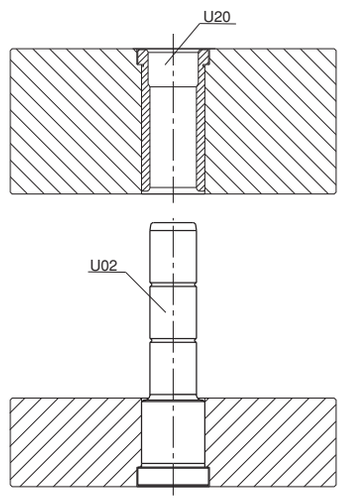
Şapkalı Kademeli Kolon
Guide Pillar

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened









Sipariş Kodu	d1	L1	L2	d2	d3	a
U02-209676	20	96	76	28	32	6
86			86			
106			106			
126			126			
U02-252626	25	26	26	34	38	8
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
U02-253626	25	36	26	34	38	8
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
U02-254626	25	46	26	34	38	8
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
116			116			
U02-255626	25	56	26	34	38	8
36			36			
46			46			
56			56			
66			66			
76			76			

Sipariş Kodu	d1	L1	L2	d2	d3	a
U02-255696	25	56	96	34	38	8
116			116			
U02-256626	25	66	26	34	38	8
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
126			126			
U02-257626	25	76	26	34	38	8
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
126			126			
U02-258636	25	86	36	34	38	8
46			46			
56			56			
66			66			
76			76			
86			86			
96			96			
116			116			
136			136			
U02-259636	25	96	36	34	38	8
46			46			
56			56			
66			66			

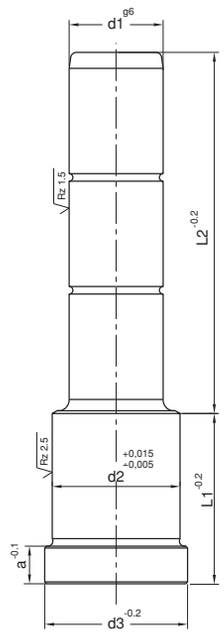
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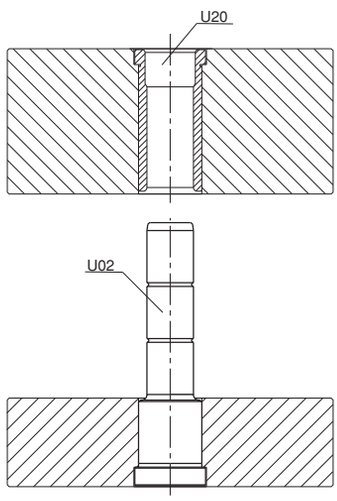
Şapkalı Kademeli Kolon
Guide Pillar

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened









Sipariş Kodu	d1	L1	L2	d2	d3	a
U02-259676	25	96	76	34	38	8
86			86			
96			96			
116			116			
136			136			
U02-2510646	25	106	46	34	38	8
56			56			
66			66			
76			76			
86			86			
96			96			
116			116			
136			136			
U02-303636	30	36	36	39	43	10
46			46			
56			56			
66			66			
86			86			
106			106			
U02-304636	30	46	36	39	43	10
46			46			
56			56			
66			66			
76			76			
96			96			
116			116			
U02-305636	30	56	36	39	43	10
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
126			126			

Sipariş Kodu	d1	L1	L2	d2	d3	a
U02-306636	30	66	36	39	43	10
46			46			
56			56			
66			66			
76			76			
86			86			
96			96			
116			116			
136			136			
U02-307636	30	76	36	39	43	10
46			46			
56			56			
76			76			
96			96			
116			116			
136			136			
U02-308636	30	86	36	39	43	10
46			46			
66			66			
86			86			
106			106			
126			126			
146			146			
U02-309646	30	96	46	39	43	10
66			66			
86			86			
106			106			
126			126			
146			146			
U02-3010656	30	106	56	39	43	10
76			76			
96			96			
116			116			
136			136			

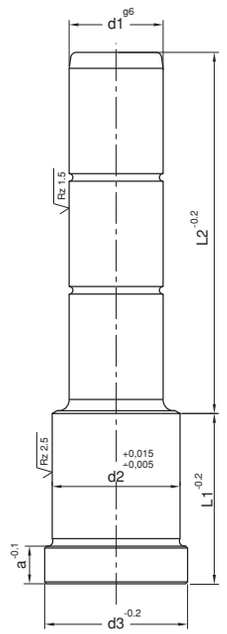
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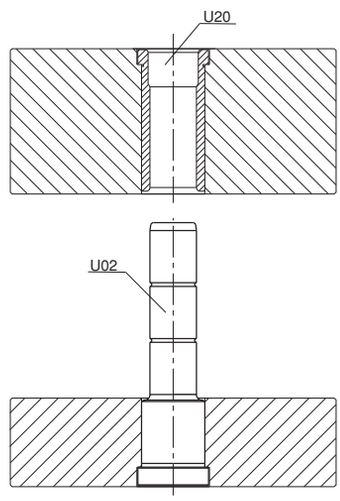
Şapkalı Kademeli Kolon
Guide Pillar

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened









Sipariş Kodu	d1	L1	L2	d2	d3	a
U02-3011656	30	116	56	39	43	10
76			76			
96			96			
116			116			
136			136			
U02-405656	40	56	56	54	58	10
86			86			
106			106			
126			126			
156			156			
186			186			
U02-406666	40	66	66	54	58	10
96			96			
116			116			
136			136			
166			166			
196			196			
U02-407676	40	76	76	54	58	10
106			106			
126			126			
146			146			
166			166			
196			196			
216			216			
U02-408686	40	86	86	54	58	10
126			126			
146			146			
176			176			
206			206			
226			226			
U02-409696	40	96	96	54	58	10
136			136			
156			156			

Sipariş Kodu	d1	L1	L2	d2	d3	a
U02-4096186	40	96	186	54	58	10
216			216			
236			236			
U02-40106106	40	106	106	54	58	10
126			126			
156			156			
186			186			
226			226			
246			246			
U02-40116116	40	116	116	54	58	10
136			136			
166			166			
196			196			
236			236			
256			256			
U02-40126126	40	126	126	54	58	10
166			166			
196			196			
236			236			
266			266			
U02-40136136	40	136	136	54	58	10
196			196			
226			226			
266			266			

U03H

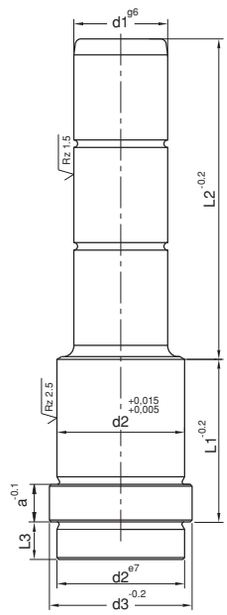
Kuyruklu Şap. Kad. Kolon
Tailed Guide Pillar

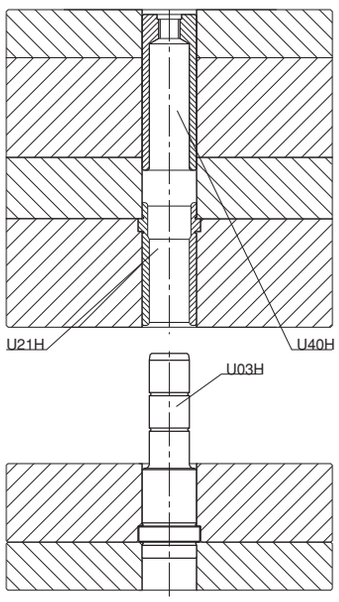
Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened











Sipariş Kodu	d1	Sipariş Kodu	d1	L1	L2	d2	d3	a	L3
U03H-141735	14	U03H-151735	15	17	35	20	25	6	9
55		55			55				
75		75			75				
95		95			95				
U03H-142230	14	U03H-152230	15	22	30	20	25	6	9
50		50			50				
70		70			70				
90		90			90				
110		110			110				
125		125			125				
150		150			150				
U03H-142730	14	U03H-152730	15	27	30	20	25	6	9
45		45			45				
65		65			65				
85		85			85				
105		105			105				
125		125			125				
145		145			145				
165		165			165				
U03H-143635	14	U03H-153635	15	36	35	20	25	6	9
55		55			55				
75		75			75				
95		95			95				
115		115			115				
125		125			125				
145		145			145				
155		155			155				
U03H-144635	14	U03H-154635	15	46	35	20	25	6	9
45		45			45				
65		65			65				
85		85			85				
105		105			105				
125		125			125				
145		145			145				

Sipariş Kodu	d1	Sipariş Kodu	d1	L1	L2	d2	d3	a	L3
U03H-145635	14	U03H-155635	15	56	35	20	25	6	9
55		55			55				
75		75			75				
95		95			95				
135		135			135				
U03H-146655	14	U03H-156655	15	66	55	20	25	6	9
65		65			65				
85		85			85				
95		95			95				
105		105			105				
125		125			125				
U03H-147635	14	U03H-157635	15	76	35	20	25	6	9
55		55			55				
75		75			75				
95		95			95				
125		125			125				
U03H-148655	14	U03H-158655	15	86	55	20	25	6	9
75		75			75				
95		95			95				
U03H-149655	14	U03H-159655	15	96	55	20	25	6	9
75		75			75				
95		95			95				
U03H-1411675	14	U03H-1511675	15	116	75	20	25	6	9
U03H-181735	18	U03H-201735	20	17	35	26	31	6	9
55		55			55				
75		75			75				
120		120			120				
U03H-182235	18	U03H-202235	20	22	35	26	31	6	9
45		45			45				
65		65			65				
85		85			85				
95		95			95				
115		115			115				

U03H

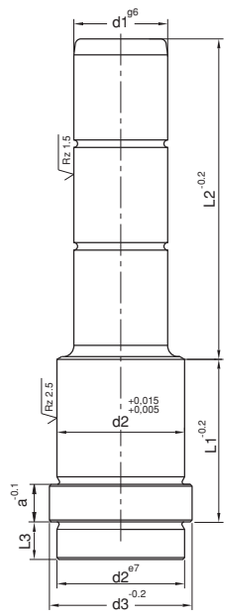
Kuyruklu Şap. Kad. Kolon
Tailed Guide Pillar

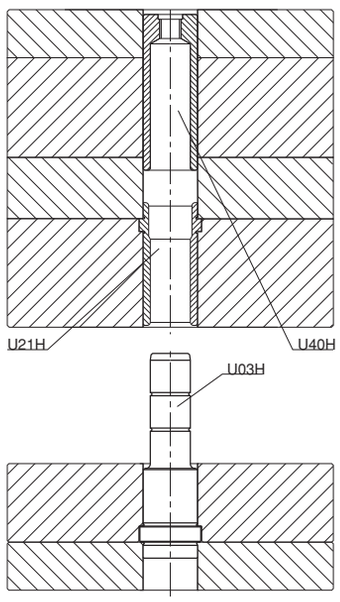
Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened











Sipariş Kodu	d1	Sipariş Kodu	d1	L1	L2	d2	d3	a	L3
U03H-182735		U03H-202735			35				
45		45			45				
65		65			65				
85		85			85				
105	18	105	20	27	105	26	31	6	9
125		125			125				
165		165			165				
225		225			225				
245		245			245				
U03H-183635		U03H-203635			35				
55		55			55				
75		75			75				
95		95			95				
115	18	115	20	36	115	26	31	6	
135		135			135				
165		165			165				
225		225			225				
255		255			255				
U03H-184635		U03H-204635			35				
45		45			45				
65		65			65				
85	18	85	20	46	85	26	31	6	
105		105			105				
135		135			135				
165		165			165				
245		245			245				
U03H-185635		U03H-205635			35				
55		55			55				
75		75			75				
95	18	95	20	56	95	26	31	6	
115		115			115				
135		135			135				
155		155			155				

Sipariş Kodu	d1	Sipariş Kodu	d1	L1	L2	d2	d3	a	L3
U03H-186635		U03H-206635			35				
55		55			55				
75		75			75				
95	18	95	20	66	95	26	31	6	9
115		115			115				
135		135			135				
145		145			145				
U03H-187635		U03H-207635			35				
55		55			55				
75	18	75	20	76	75	26	31	6	9
95		95			95				
115		115			115				
135		135			135				
U03H-188655		U03H-208655			55				
75		75			75				
95	18	95	20	86	95	26	31	6	9
125		125			125				
135		135			135				
U03H-189655		U03H-209655			55				
75	18	75	20	96	75	26	31	6	9
95		95			95				
U03H-1811675	18	U03H-2011675	20	116	75	26	31	6	9
115		115			115				
U03H-18136135	18	U03H-20136135	20	136	35	26	31	6	9
U03H-221735		U03H-241735			35				
55	22	55	24	17	55	30	35	6	9
75		75			75				
U03H-222235		U03H-242235			35				
55		55			55				
75	22	75	24	22	75	30	35	6	9
95		95			95				
105		105			105				
130		130			130				

U03H

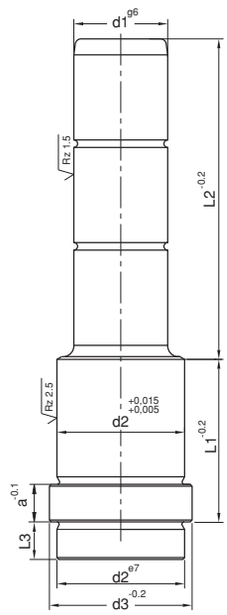
Kuyruklu Şap. Kad. Kolon
Tailed Guide Pillar

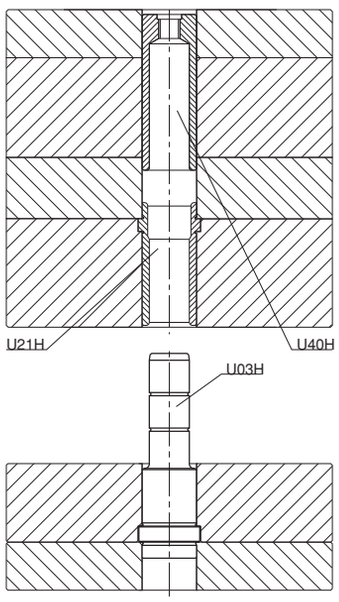
Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened











Sipariş Kodu	d1	Sipariş Kodu	d1	L1	L2	d2	d3	a	L3
U03H-222735		U03H-242735			35				
45		45			45				
65		65			65				
85		85			85				
105	22	105	24	27	105	30	35	6	9
125		125			125				
165		165			165				
205		205			205				
245		245			245				
U03H-223635		U03H-243635			35				
55		55			55				
75		75			75				
95		95			95				
115	22	115	24	36	115	30	35	6	9
135		135			135				
165		165			165				
205		205			205				
245		245			245				
285		285			285				
U03H-224635		U03H-244635			35				
45		45			45				
65		65			65				
85	22	85	24	46	85	30	35	6	9
105		105			105				
125		125			125				
165		165			165				
205		205			205				
U03H-225635		U03H-245635			35				
55		55			55				
75	22	75	24	56	75	30	35	6	9
95		95			95				
115		115			115				
135		135			135				

Sipariş Kodu	d1	Sipariş Kodu	d1	L1	L2	d2	d3	a	L3
U03H-2256165	22	U03H-2456165	24	56	165	30	35	6	9
205		205			205				
U03H-226635		U03H-246635			35				
55		55			55				
75		75			75				
95	22	95	24	66	95	30	35	6	9
115		115			115				
135		135			135				
155		155			155				
U03H-227635		U03H-247635			35				
55		55			55				
75	22	75	24	76	75	30	35	6	9
95		95			95				
115		115			115				
145		145			145				
U03H-228655		U03H-248655			55				
75		75			75				
95	22	95	24	86	95	30	35	6	9
125		125			125				
135		135			135				
U03H-229655		U03H-249655			55				
75	22	75	24	96	75	30	35	6	9
95		95			95				
125		125			125				
U03H-2210655		U03H-2410655			55				
75	22	75	24	106	75	30	35	6	9
95		95			95				
115		115			115				
U03H-2211675		U03H-2411675			75				
115	22	115	24	116	115	30	35	6	9
155		155			155				
U03H-2213695	22	U03H-2413695	24	136	95	30	35	6	9
135		135			135				

U03H

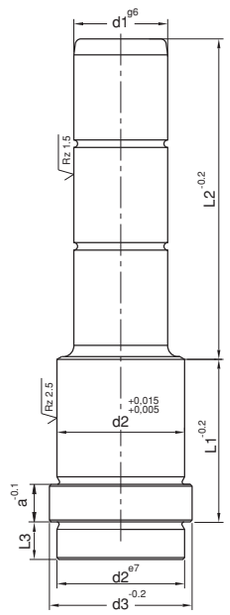
Kuyruklu Şap. Kad. Kolon
Tailed Guide Pillar

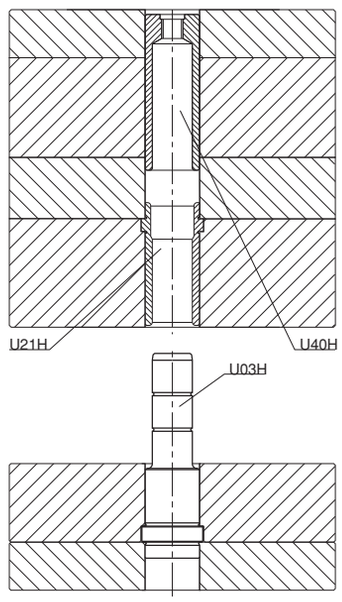
Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened











Sipariş Kodu	d1	Sipariş Kodu	d1	L1	L2	d2	d3	a	L3
U03H-302735		U03H-322735			35				
45		45			45				
65		65			65				
85		85			85				
105		105			105				
125	30	125	32	27	125	42	47	6	9
145		145			145				
165		165			165				
185		185			185				
245		245			245				
285		285			285				
U03H-303635		U03H-323635			35				
55		55			55				
75		75			75				
95		95			95				
115	30	115	32	36	115	42	47	6	9
135		135			135				
155		155			155				
245		245			245				
285		285			285				
U03H-304645		U03H-324645			45				
65		65			65				
85		85			85				
105		105			105				
125	30	125	32	46	125	42	47	6	9
145		145			145				
165		165			165				
245		245			245				
285		285			285				
U03H-305645		U03H-325645			45				
55	30	55	32	56	55	42	47	6	9
75		75			75				
95		95			95				

Sipariş Kodu	d1	Sipariş Kodu	d1	L1	L2	d2	d3	a	L3
U03H-3056115		U03H-3256115			115				
135		135			135				
155	30	155	32	56	155	42	47	6	9
175		175			175				
245		245			245				
295		295			295				
U03H-306645		U03H-326645			45				
55		55			55				
75		75			75				
95		95			95				
115	30	115	32	66	115	42	47	6	9
135		135			135				
155		155			155				
175		175			175				
245		245			245				
295		295			295				
U03H-307655		U03H-327655			55				
75		75			75				
95		95			95				
115	30	115	32	76	115	42	47	6	9
135		135			135				
155		155			155				
225		225			225				
U03H-308655		U03H-328655			55				
75		75			75				
95		95			95				
115	30	115	32	86	115	42	47	6	9
135		135			135				
155		155			155				
225		225			225				
U03H-309655		U03H-329655			55				
75	30	75	32	96	75	42	47	6	9
95		95			95				

U03H

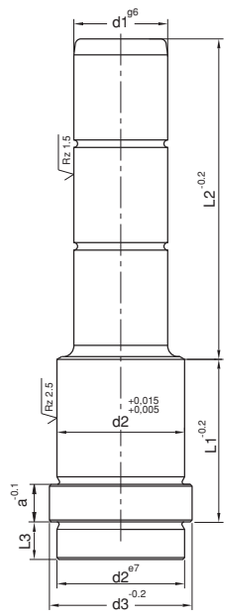
Kuyruklu Şap. Kad. Kolon
Tailed Guide Pillar

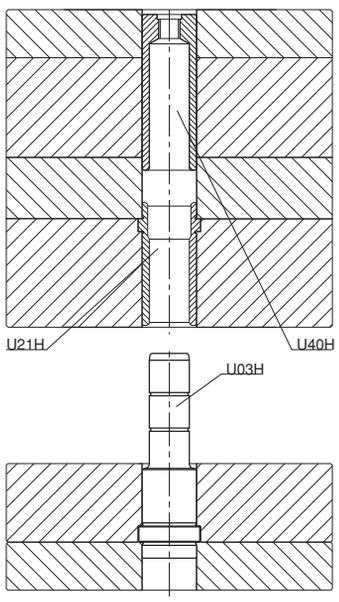
Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened











Sipariş Kodu	d1	Sipariş Kodu	d1	L1	L2	d2	d3	a	L3
U03H-3096115	30	U03H-3296115	32	96	115	42	47	6	9
135		135			135				
155		155			155				
205		205			205				
U03H-3010675	30	U03H-3210675	32	106	75	42	47	6	9
95		95			95				
115		115			115				
125		125			125				
145		145			145				
165		165			165				
U03H-3011675	30	U03H-3211675	32	116	75	42	47	6	9
95		95			95				
115		115			115				
135		135			135				
155		155			155				
U03H-3013695	30	U03H-3213695	32	136	95	42	47	6	9
115		115			115				
135		135			135				
155		155			155				
U03H-30156115	30	U03H-32156115	32	156	115	42	47	6	9
155		155			155				
U03H-30196155	30	U03H-32196155	32	196	155	42	47	6	9
195		195			195				
U03H-404695	40	U03H-424695	42	46	95	54	60	10	12
165		165			165				

Sipariş Kodu	d1	Sipariş Kodu	d1	L1	L2	d2	d3	a	L3
U03H-405675	40	U03H-425675	42	56	75	54	60	10	12
115		115			115				
155		155			155				
195		195			195				
U03H-406675	40	U03H-426675	42	66	75	54	60	10	12
135		135			135				
U03H-407675	40	U03H-427675	42	76	75	54	60	10	12
115		115			115				
175		175			175				
U03H-408675	40	U03H-428675	42	86	75	54	60	10	12
135		135			135				
U03H-409675	40	U03H-429675	42	96	75	54	60	10	12
115		115			115				
155		155			155				
U03H-4011695	40	U03H-4211695	42	116	95	54	60	10	12
135		135			135				
195		195			195				
U03H-4013695	40	U03H-4213695	42	136	95	54	60	10	12
135		135			135				
215		215			215				
U03H-40156115	40	U03H-42156115	42	156	115	54	60	10	12
155		155			155				
215		215			215				
U03H-40196155	40	U03H-42196155	42	196	155	54	60	10	12
195		195			195				
235		235			235				
U03H-40246165	40	U03H-42246165	42	246	165	54	60	10	12
245		245			245				

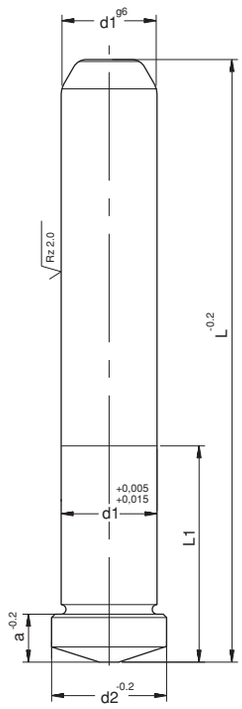
U06

Açılı Şapkalı Kolon
Angled Guide Pillar

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened







Sipariş Kodu	d1	L	L1	d2	a
U06-1260	12	60	17	16	9
80		80	22		
100		100	27		
120		120			
140		140	36		
160		160			
180		180			
U06-1460	14	60	17	18	9
80		80	22		
100		100	27		
120		120			
140		140	36		
160		160			
180		180	46		
200		200			
U06-1660	16	60	17	20	10
80		80	22		
100		100	27		
120		120			
140		140	36		
160		160			
180		180	46		
200		200			
220		220	56		
240		240			
U06-2080	20	80	22	24	10
100		100	27		
120		120			
140		140	36		
160		160			
180		180	46		
200		200	56		
220		220			
240		240	66		
260		260			
280		280			

Sipariş Kodu	d1	L	L1	d2	a
U06-2580	25	80	22	29	11
100		100	27		
120		120			
140		140	36		
160		160			
180		180	46		
200		200	56		
220		220			
240		240	66		
260		260			
280		280	76		
300		300			
U06-30100	30	100	27	34	12
120		120			
140		140	36		
160		160			
180		180	46		
200		200	56		
220		220			
240		240	66		
280		280			
320		320	76		
360		360	86		

U07

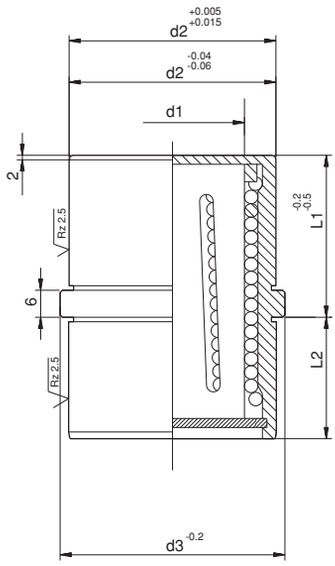
Masuralı Bilyalı Burç
Recirculating Ball Bearing

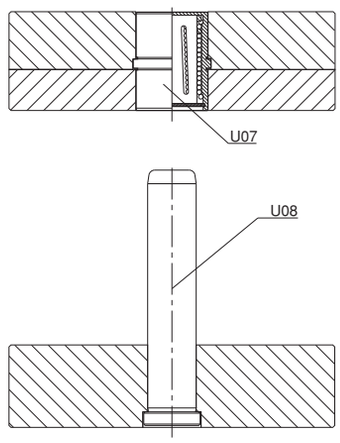
Malzeme / Metarial
1.3505 (100Cr6)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened











Sipariş Kodu	d1	L1	L2	d2	d3
U07-121217	12	17	12	22	25
U07-181722	18	22	17	30	33
U07-242227	24	27	22	38	41
U07-302736	30	36	27	46	49

U08

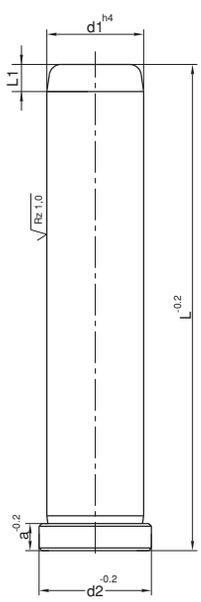
Kolon
Guide Pillar

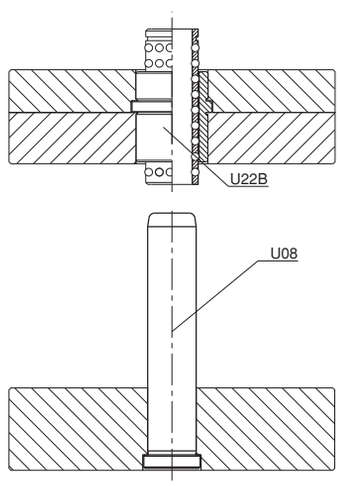
Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened











Sipariş Kodu	d1	L	L1	d2	a
U08-1280	12	80	4	16	4
100		100			
120		120			
U08-18120	18	120	7	22	6
140		140			
160		160			
U08-24140	24	140	7	28	6
180		180			
220		220			
U08-30160	30	160	7	36	6
200		200			
240		240			

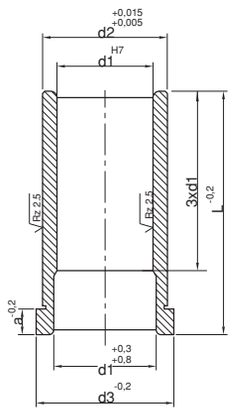
U20

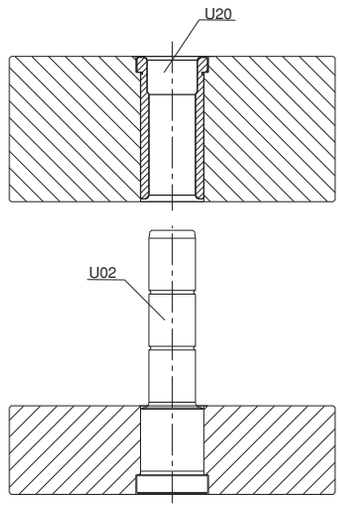
Şapkalı Burç
Guide Bush

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened









Sipariş Kodu	d1	L	d2	d3	a
U20-1226	12	26	16	19	4
36		36			
46		46			
56		56			
66		66			
U20-1426	14	26	20	25	6
36		36			
46		46			
56		56			
66		66			
76		76			
86		86			
U20-1626	16	26	24	28	6
36		36			
46		46			
56		56			
66		66			
76		76			
86		86			
U20-1826	18	26	26	31	6
36		36			
46		46			
56		56			
66		66			
76		76			
86		86			
U20-2026	20	26	28	32	6
36		36			
46		46			
56		56			
66		66			
76		76			
86		86			
96		96			

Sipariş Kodu	d1	L	d2	d3	a
U20-2526	25	26	34	38	8
36		36			
46		46			
56		56			
66		66			
76		76			
86		86			
96		96			
106		106			
U20-3036	30	36	39	43	10
46		46			
56		56			
66		66			
76		76			
86		86			
96		96			
106		106			
116		116			
U20-4046	40	46	54	58	10
56		56			
66		66			
76		76			
86		86			
96		96			
106		106			
116		116			
126		126			
136		136			
146		146			

U21H

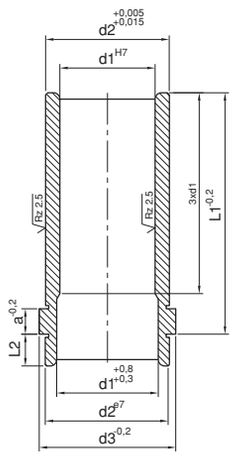
Kuyruklu Şapkalı Burç
Tailed Guide Bush

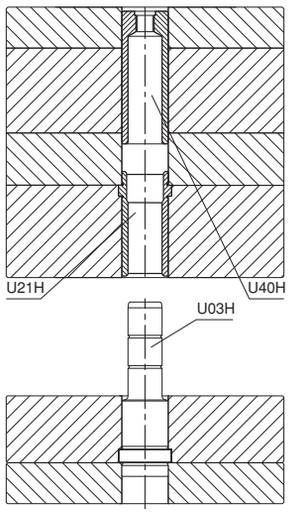
Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened











Sipariş Kodu	d1	Sipariş Kodu	d1	L1	d2	d3	a	L2
U21H-1417		U21H-1517		17				
22		22		22				
27		27		27				
36		36		36				
46		46		46				
56	14	56	15	56	20	25	6	9
66		66		66				
76		76		76				
86		86		86				
96		96		96				
116		116		116				
U21H-1817		U21H-2017		17				
22		22		22				
27		27		27				
36		36		36				
46		46		46				
56		56		56				
66	18	66	20	66	26	31	6	9
76		76		76				
86		86		86				
96		96		96				
106		106		106				
116		116		116				
136		136		136				
U21H-2217		U21H-2417		17				
22		22		22				
27		27		27				
36		36		36				
46	22	46	24	46	30	35	6	9
56		56		56				
66		66		66				
76		76		76				
86		86		86				

Sipariş Kodu	d1	Sipariş Kodu	d1	L1	d2	d3	a	L2
U21H-2296		U21H-2496		96				
106		106		106				
116	22	116	24	116	30	35	6	9
136		136		136				
156		156		156				
U21H-3027		U21H-3227		27				
36		36		36				
46		46		46				
56		56		56				
66		66		66				
76		76		76				
86	30	86	32	86	42	47	6	9
96		96		96				
106		106		106				
116		116		116				
126		126		126				
136		136		136				
156		156		156				
196		196		196				
U21H-4046		U21H-4246		46				
56		56		56				
66		66		66				
76		76		76				
86		86		86				
96	40	96	42	96	54	60	10	12
116		116		116				
136		136		136				
156		156		156				
196		196		196				
246		246		246				

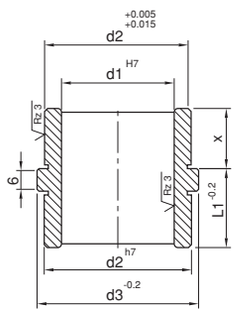
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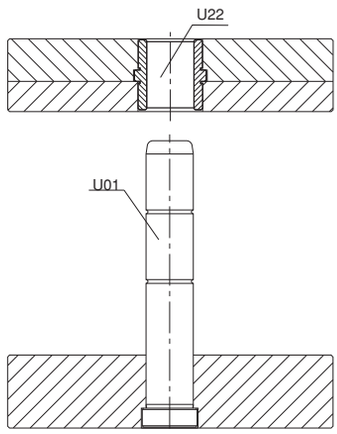
Ortadan Flanşlı Burç
Middle Flagned Bush

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened









Sipariş Kodu	d1	L1	d2	d3	x
U22-1416	14	16	20	25	12
U22-1616	16	16	24	28	12
U22-1816	18	16	26	31	12
U22-2016	20	16	28	32	12
U22-2521	25	21	34	38	16
U22-3021	30	21	39	43	16

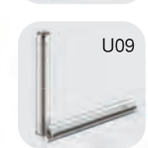
U22B

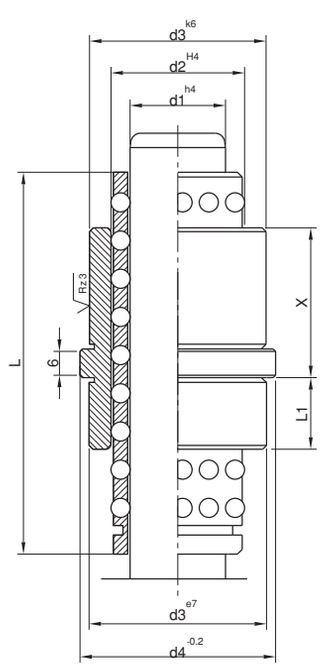
Bilyalı Ortadan Flanşlı Burç
Guide Bush with Ball Cage

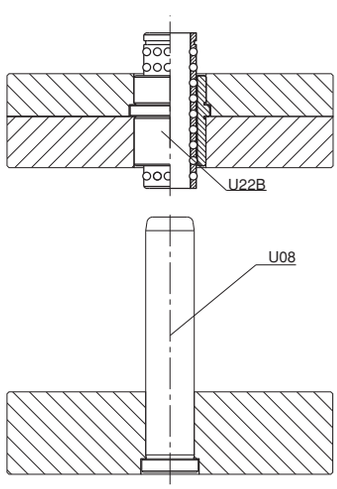
Malzeme / Metarial
1.3505 (100Cr6)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
Bilya Malzemesi / Ball Metarial
1.3505 (100Cr6)











Sipariş Kodu	d1	L	L1	d2	d3	d4	X
U22B-1240	12	40	6	16	22	26	18
56		56					
U22B-1845	18	45	11	24	30	35	23
56		56					
71		71					
U22B-3056	30	56	21	38	46	52	33
75		75					
95		95					

U40H

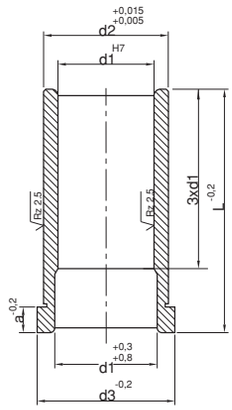
Tespit Burcu
Centring Sleves

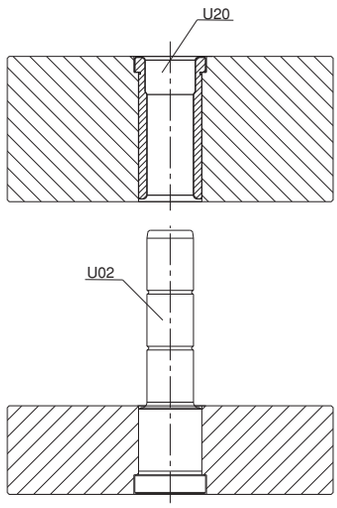
Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened











Sipariş Kodu	d1	L	d2	M	L1	L2
U40H-2030	16	30	20	12	13	4
40		40				
60		60				
80		80				
100		100				
120		120				
140		140				
U40H-2630	21	30	26	12	13	4
40		40				
60		60				
80		80				
100		100				
120		120				
140		140				
160		160				
U40H-3040	25	40	30	12	13	4
60		60				
80		80				
100		100				
120		120				
140		140				
160		160				
180		180				
200		200				

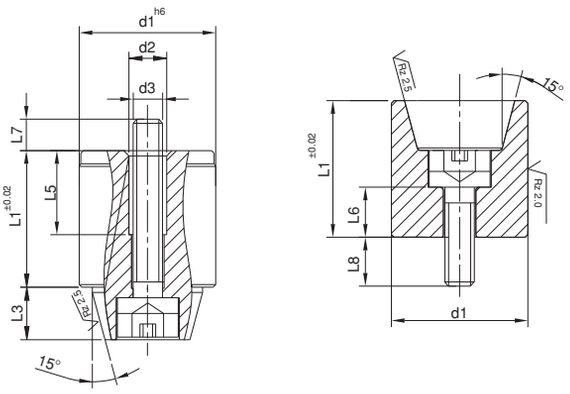
Sipariş Kodu	d1	L	d2	M	L1	L2
U40H-4240	33	40	42	12	13	4
60		60				
80		80				
100		100				
120		120				
140		140				
160		160				
180		180				
200		200				
220		220				
U40H-5460	43	60	54	12	16	4
80		80				
120		120				
160		160				
200		200				
240		240				

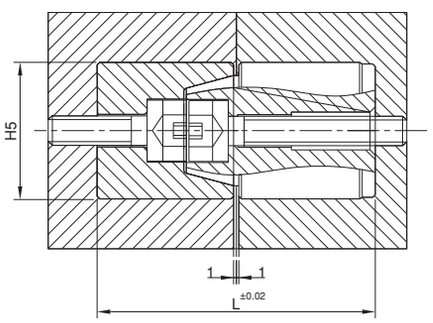
U50

Konik Kitleme
Locating Unit

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened





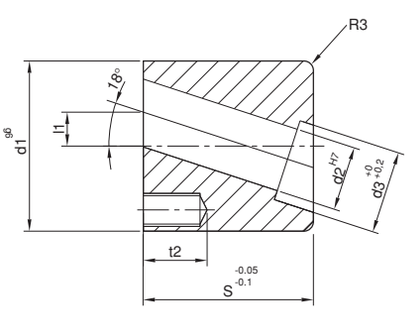


Sipariş Kodu	d1	L	L1	L3	L5	L6	L7	L8	d2	d3
U50-12	12	34	16	4.5	9.5	7.0	8	7.5	M4	M3
U50-14	14	34	16	6	12.4	6.0	7.5	8	M5	M4
U50-16	16	34	16	6	12.4	5.8	7.5	8	M5	M4
U50-20	20	54	26	9	19.7	10.6	12	9.5	M8	M6
U50-25	25	54	26	10	19.7	9.2	11	11	M8	M6
U50-30	30	72	35	14	25.0	12.2	15	13	M10	M8
U50-42	42	92	45	18	27.0	16.8	16	13	M10	M8

U100

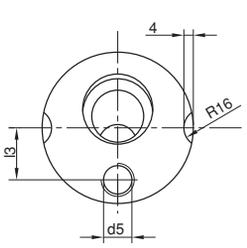
Boynuz Pimi Yatağı
Retainer

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened









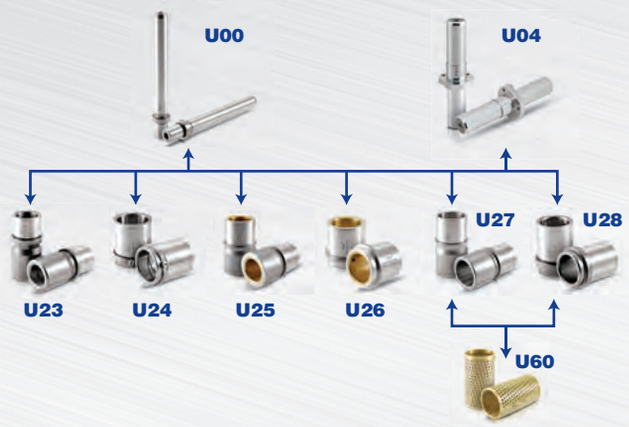
Sip. Kodu / Order Code	d1	s	d2	d3	d5	l1	l3	t2
U100-12	32	36	12	16	M6	7	10	12
U100-14	36	36	14	18	M8	7	12	16
U100-16	40	46	16	20	M8	8.5	13.5	16
U100-20	45	46	20	25	M8	8.5	15	16
U100-25	50	56	25	29	M8	10	16	16
U100-30	63	66	30	34	M10	12	21	20

02

KOLON BURÇLAR

SAC KALIBI ÜRÜNLERİ

UKS KALIP ELEMANLARI MOLD COMPONENTS

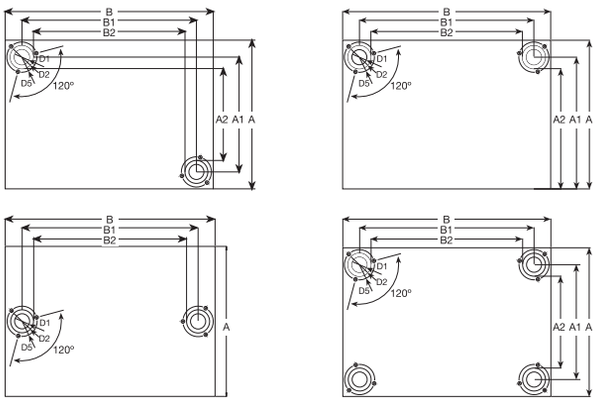






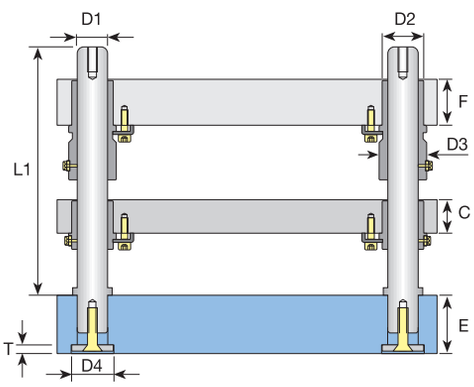
- Stan. Kesme Kalıp Set. Sy. 42
- U00 Ortadan Şap. Kol. Sy. 43
- D01D Şapkalı Kolon Sy. 44
- U04 Ort. Flanşlı Kolon Sy. 45
- U05 Ark. Kalın Kolon Sy. 45
- U09 Düz Kolon Sy. 46
- U24 Üstten Şap. Burç Sy. 47
- U23 Ort. Şapkalı Burç Sy. 47
- U25 Uz. Bronz Geç. Burç Sy. 48
- U26 Kısa Br. Geç. Burç Sy. 48
- U27 Şapkalı Bilyalı Burç Sy. 49
- U28 Kısa Bilyalı Burç Sy. 49
- U90 Bağlama Pabucu Sy. 49
- U60 Bilyalı Burç Sy. 50
- D30.01 Grafitli Burç Sy. 51
- D30.02 Grafitli Burç Sy. 51
- D30.03 Grafitli Burç Sy. 51
- D30.04 Grafitli Burç Sy. 51-52
- D30.05 Grafitli Burç Sy. 53
- D30.06 Grafitli Burç Sy. 53
- D80.01 Graf. Sür. Plakası Sy. 54
- D80.02 Graf. Sür. Plakası Sy. 54
- D80.03 Graf. Sür. Plakası Sy. 55
- D80.04 Graf. Sür. Plakası Sy. 55
- UWP Graf. Sür. Plakası Sy. 56
- SOL Graf. Sür. Plakası Sy. 57
- SOML Graf. Sür. Plakası Sy. 57
- D10 Kolon Sy. 58
- D70.01 Döküm Blok Sy. 58
- D70.02 Br. Döküm Blok Sy. 58
- D70.03 Çelik Kay. D. Blok Sy. 58
- D70.04 Bil. Döküm Blok Sy. 58
- D70.05 Grafi. Dö. Blok Sy. 59
- D70.10 Kolon Sab. Bloğu Sy. 59
- D11 Kolon Sy. 59
- D71.02 Br. Döküm Blok Sy. 59
- D71.05 Grafi. Dö. Blok Sy. 59
- D71.10 Kolon Sab. Bloğu Sy. 60
- D70.011 Döküm Set Sy. 60
- D70.021 Br. Döküm Set Sy. 60
- D70.031 Çelik Kay. D. Set Sy. 61
- D70.041 Bil. Döküm Set Sy. 61
- D70.051 Grafi. Dö. Set Sy. 61
- D71.021 Br. Döküm Set Sy. 61
- D12.01 Kolon Tut. Flanş Sy. 62
- D12.02 Tutucu Halka Sy. 62
- D30.03.01 Burç Tut. Flanş Sy. 62

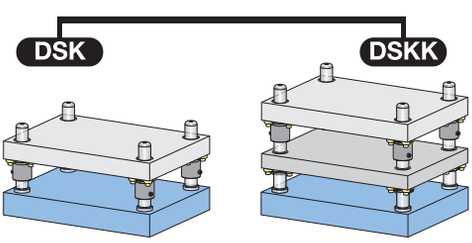
Standart Kesme Kalıp Setleri

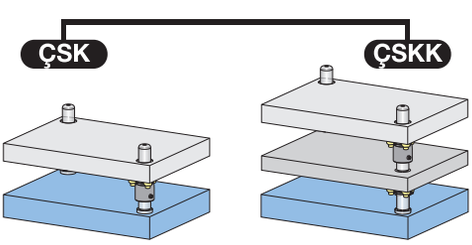


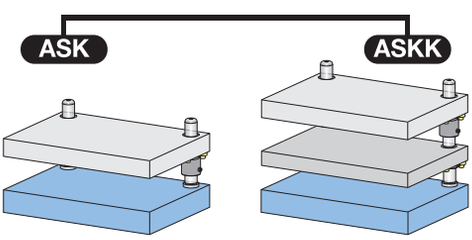


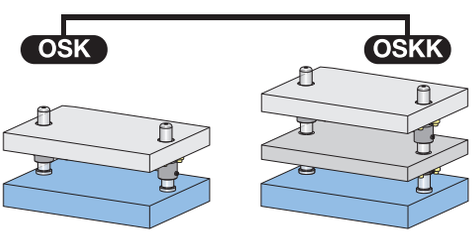
İstenilen ölçülerde kalıp seti imal edilir.











A	B	E	F	C	A1	A2	A3	A4	B1	B2	T	D4	D1	D2	D3	D5
156	156	27	27	27	110	76	133	116	110	76	7.5	28	20	28	34	44
	196	37	37						150	116						
	246	47							200	166						
	296								250	216						
196	196	27	27	27	150	116	173	156	150	116	7.5	28	20	28	34	44
	246	37	37						200	166						
	296	47							250	216						
	346								300	266						
	396								350	316						
246	246	37	37	27	190	151	218	198	190	151	7.5	35	25	34	39	50
	296	47	47	37					240	201						
	346	57							290	251						
	396								340	301						
	446								390	351						
296	296	37	37	37	230	186	263	341	230	186	7.5	35	30	39	44	55
	346	47	47	47					280	236						
	396	57	57						330	286						
	446								380	336						
	496								430	386						
346	346	37	37	37	280	236	313	291	280	236	7.5	35	30	39	44	55
	396	47	47	47					330	286						
	446	57	57						380	336						
	496								430	386						
	546								480	436						
396	396	47	47	37	320	266	358	331	320	266	10.5	45	40	50	54	66
	446	57	57	47					370	316						
	496	67							420	366						
	546								470	416						
	596								520	466						
446	446	47	47	37	370	316	408	381	370	316	10.5	45	40	50	54	66
	496	57	57	47					420	366						
	546	67							470	416						
	596								520	466						
	646								570	516						
496	496	47	47	47	420	366	458	431	420	366	10.5	45	40	50	54	66
	546	57	57						470	416						
	596	67							520	466						
	646								570	516						
	696								620	566						
546	546	57	57	47	450	386	498	466	450	386	10.5	60	50	60	64	76
	596	67	67						500	436						
	646	77							550	486						
	696								600	536						
	746								650	586						
596	596	57	57	47	500	436	548	516	500	436	10.5	60	50	60	64	76
	646	67	67	57					550	486						
	696	77							600	536						
	746								650	586						
	796								700	636						

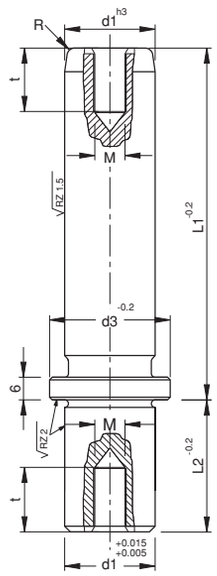
U00

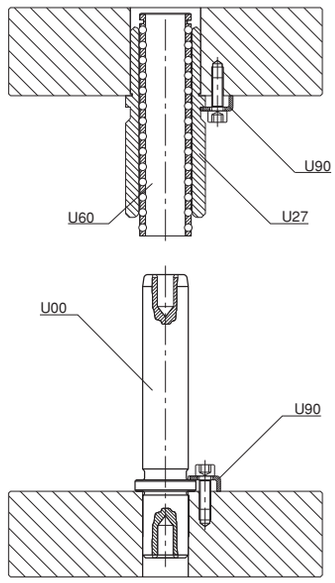
Ortadan Şapkalı Kolon
Guide Pillar

Malzeme / Metarial
1.1213 (CF53)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
İndüksiyon Sertleştirme
/ Induction Hardening









Sipariş Kodu	d1	L1	L2	d3	t	R	M
U00-1610020	16	100	20	22	20	3	6
11220		112					
12520		125					
14020		140					
16020		160					
18020		180					
20020		200					
U00-2010023	20	100	23	25	20	3	8
11223		112					
12523		125					
14023		140					
16023		160					
18023		180					
20023		200					
U00-2510030	25	100	30	32	20	5	8
11230		112					
12530		125					
14030		140					
16030		160					
18030		180					
20030		200					
22430		224					
25030		250					
U00-3011237	30	112	37	40	20	5	8
12537		125					
14037		140					
16037		160					
18037		180					
20037		200					
22437		224					
25037		250					
28037		280					
31537		315					

Sipariş Kodu	d1	L1	L2	d3	t	R	M
U00-4012537	40	125	37	50	20	5	8
14037		140					
16037		160					
18037		180					
20037		200					
22437		224					
25037		250					
28037		280					
31537		315					
35537		355					
U00-5014047	50	140	47	63	20	5	8
16047		160					
18047		180					
20047		200					
22447		224					
25047		250					
28047		280					
31547		315					
35547		355					
40047		400					
U00-6316047	63	160	47	80	20	5	8
18047		180					
20047		200					
22447		224					
25047		250					
28047		280					
31547		315					
35547		355					
40047		400					

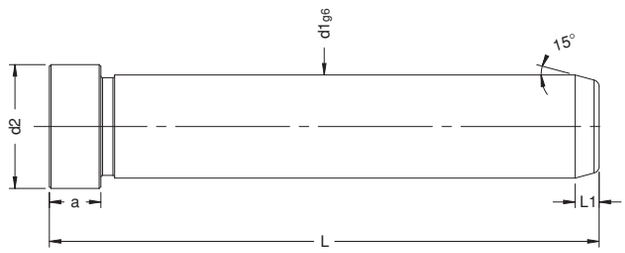
• Ø80 siparişe göre üretilir. */ Ø80 available on customer request*

D01D

Şapkalı Kolon
Yağ Kanalsız
Guide Pillar

Malzeme / Metarial
1.1213 (CF53)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
İndüksiyon Sertleştirme
/ Induction Hardening





Sipariş Kodu	d1	L	L1	d2	a
D01D_10040	10	40	4	12	3
060		60			
080		80			
100		100			
120		120			
D01D_12040	12	40	7	16	6
060		60			
080		80			
100		100			
120		120			
140		140			
160		160			
D01D_14060	14	60	7	18	8
080		80			
100		100			
120		120			
140		140			
160		160			
180		180			
D01D_16040	16	40	7	20	8
060		60			
080		80			
100		100			
120		120			
140		140			
160		160			
180		180			
200		200			
D01D_18060	18	60	7	22	8
080		80			
100		100			
120		120			
140		140			
160		160			
180		180			
200		200			
240		240			
D01D_20060	20	60	7	24	8
080		80			
100		100			
120		120			
140		140			

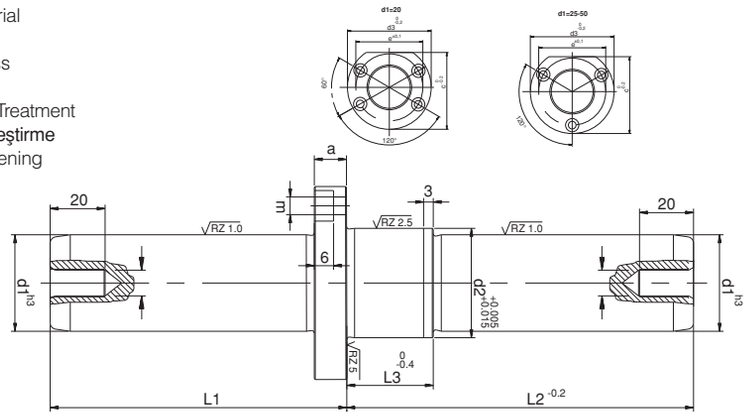
Sipariş Kodu	d1	L	L1	d2	a
D01D_20160	20	160	7	24	8
180		180			
200		200			
240		240			
D01D_22080	22	80	7	26	15
100		100			
120		120			
140		140			
160		160			
180		180			
200		200			
220		220			
240		240			
300		300			
D01D_24080	24	80	7	28	15
100		100			
120		120			
140		140			
160		160			
180		180			
200		200			
220		220			
240		240			
300		300			
D01D_30100	30	100	7	36	15
120		120			
140		140			
160		160			
180		180			
200		200			
220		220			
240		240			
300		300			
360		360			
D01D_40160	40	160	10	48	15
180		180			
200		200			
220		220			
240		240			
280		280			
300		300			
320		320			
D01D_40360	40	360	10	48	15
D01D_50160	50	160	10	58	15
200		200			
240		240			
300		300			
360		360			

U04 Ortadan Flanşlı Kolon

Middle Flange Guide Pillar



Malzeme / Metarial
1.1213 (CF53)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
İndüksiyon Sertleştirme
/ Induction Hardening



Sipariş Kodu	d1	L1	L2	L3	d2	d3	c	e	m	a
U04-207080	20	70	80	22	22	44	39	33	5	10
7090		70	90							
9090		90	90							
90110		90	110							
U04-258090	25	80	90	22	27	50	45	38	5	10
80110		80	110							
90120		90	120							
10090		100	90							
100100		100	100							
100160		100	160							
120100		120	100							
U04-3090100	30	90	100	27	32	60	55	48	5	10
90110		90	110							

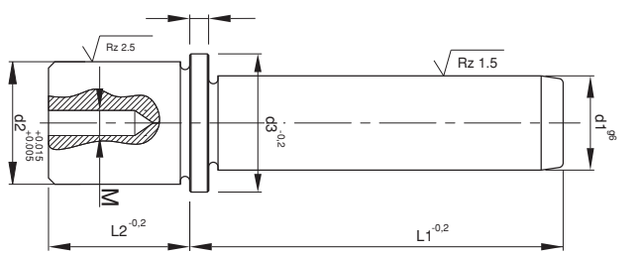
Sipariş Kodu	d1	L1	L2	L3	d2	d3	c	e	m	a
U04-30100160	30	100	160	27	32	60	55	48	5	10
110110		110	110							
110120		110	120							
130120		130	120							
130130		130	130							
U04-40100110	40	100	110	27	42	70	65	56	6	12
100120		100	120							
120120		120	120							
120130		120	130							
140130		140	130							
U04-50130120	50	130	120	36	52	80	75	66	6	15
150110		150	110							
150120		150	120							

U05 Arkası Kalın Kolon

Guide Pillar



Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened



Sipariş Kodu	d1	L1	L2	d2	d3	M
U05-2010025	20	100	25	28	34	6
35			35			
U05-2012525		125	25			
35			35			
U05-2014025		140	25			
35			35			
U05-2016025		160	25			
35			35			
U05-2018025		180	25			
35			35			
U05-2510025	25	100	25	34	39	8
35			35			
U05-2512525		125	25			
35			35			
U05-2514025		140	25			
35			35			
U05-2516025		160	25			
35			35			
U05-2518025		180	25			
35			35			
U05-2520025		200	25			
35			35			
U05-2522025		220	25			
35			35			
U05-2524025		240	25			

Sipariş Kodu	d1	L1	L2	d2	d3	M
U05-3012535	30	125	35	39	44	8
45			45			
U05-3014035		140	35			
45			45			
U05-3016035		160	35			
45			45			
U05-3018035		180	35			
45			45			
U05-3020035		200	35			
45			45			
U05-3022035		220	35			
45			45			
U05-3024035		240	35			
45			45			
U05-3026035		260	35			
45			45			
U05-3028035		280	35			
45			45			
U05-3031535		315	35			
45			45			

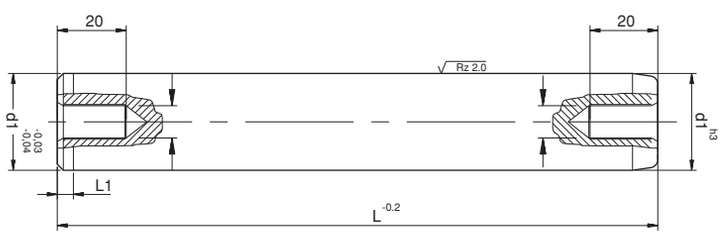
U09

Düz Kolon
Guide Pillar

Malzeme / Metarial
1.1213 (CF53)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
İndüksiyon Sertleştirme
/ Induction Hardening







Sipariş Kodu	d1	L	L1	M
U09-1280	12	80	3	5
100		100		
120		120		
140		140		
160		160		
U09-1880	18	80	3	8
100		100		
120		120		
140		140		
160		160		
180		180		
U09-20100	20	100	4	8
112		112		
125		125		
140		140		
160		160		
180		180		
200		200		
224		224		
U09-24100	24	100	4	8
120		120		
140		140		
160		160		
180		180		
200		200		
U09-25112	25	112	4	8
125		125		
140		140		
160		160		
180		180		
200		200		
224		224		
250		250		
280		280		

Sipariş Kodu	d1	L	L1	M
U09-30140	30	140	4	8
160		160		
180		180		
200		200		
224		224		
250		250		
280		280		
315		315		
U09-40160	40	160	4	8
180		180		
200		200		
224		224		
250		250		
280		280		
315		315		
355		355		
400		400		
U09-50180	50	180	5	8
200		200		
224		224		
250		250		
280		280		
315		315		
355		355		
400		400		
500		500		
U09-63280	63	280	5	12
315		315		
355		355		
400		400		

• Ø63 siparişe göre üretilir. / *Ø63 available on customer request*

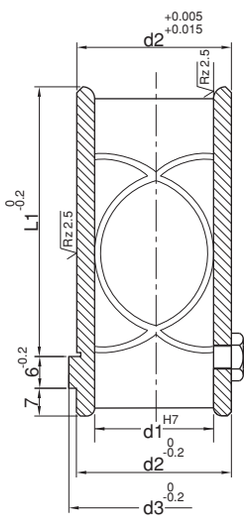
U24

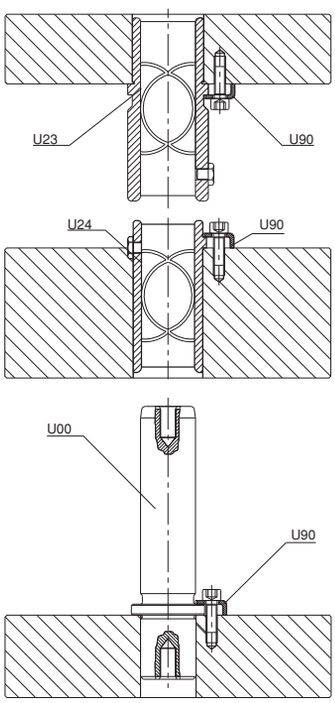
Üstten Şapkalı Burç
Guide Bush

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened









Sipariş Kodu	d1	L1	d2	d3
U24-2026	20	26	28	34
U24-2526	25	26	34	39
36		36		
U24-3026	30	26	39	44
36		36		
U24-4036	40	36	50	54
46		46		
U24-5046	50	46	60	64
56		56		
U24-6346	63	46	85	95
U24-6356		56		

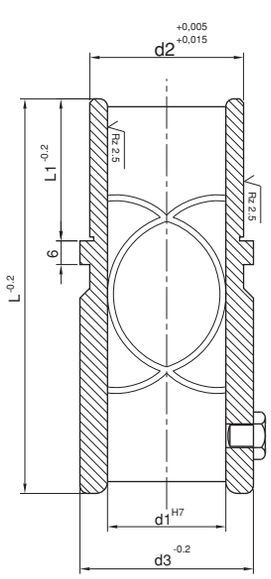
U23

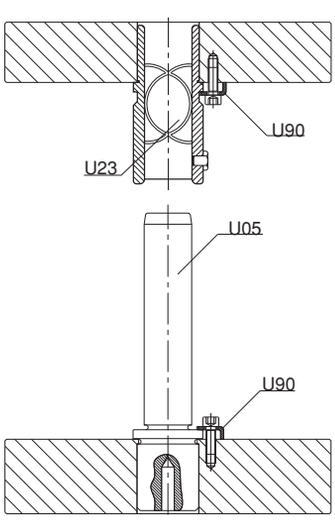
Ortadan Şapkalı Burç
Guide Bush

Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened









Sipariş Kodu	d1	L	L1	d2	d3
U23-2026	20	70	26	28	34
36			36		
U23-2526	25	80	26	34	39
36			36		
U23-3036	30	90	36	39	44
46			46		
U23-4036	40	100	36	50	54
46			46		
U23-5046	50	120	46	60	64
56			56		
U23-6356	63	130	56	85	95
U23-6356		150			

U25

Uzun Bronz Geçmeli Burç
Guide Bush With Bronze

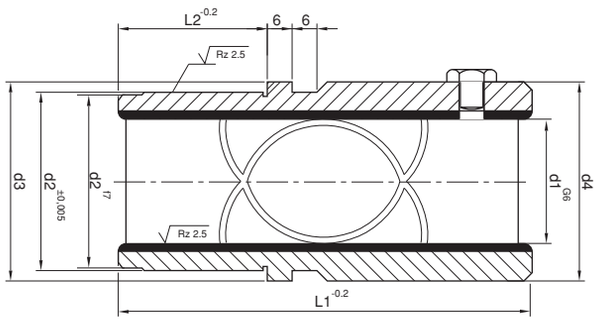
Malzeme / Metarial
CK45 (1045)
Sertlik / Hardness
56 - 60 HRC
Isıl İşlem / Heat Treatment
İndüksiyon Sertleştirme
/ Induction Hardening











Sipariş Kodu	d1	L1	L2	d2	d3	d4
U25-194323	19	43	23	32	40	39
5923		59				
5933			33			
U25-204323	20	43	23	32	40	39
5923		59				
5933			33			
U25-245923	24	59	23	40	48	46
7923		79				
7933			33			
U25-255923	25	59	23	40	48	46
7923		79				
7933			33			
U25-307530	30	75	30	48	55	53
9330		93				
9340			40			

• Ø80 siparişe göre üretilir. / *Ø80 available on customer request*

Sipariş Kodu	d1	L1	L2	d2	d3	d4
U25-327530	32	75	30	48	55	53
9330		93				
9340			40			
U25-388237	38	82	37	58	65	63
10837		108				
10847			47			
U25-408237	40	82	37	58	65	63
10837		108				
10847			47			
U25-489747	48	97	47	70	80	77
12747		127				
12757			57			
U25-509747	50	97	47	70	80	77
12747		127				
12757			57			
U25-6311660	63	116	60	85	95	92
U25-6315060		150				

U26

Kısa Bronz Geçmeli Burç
Guide Bush With Bronze

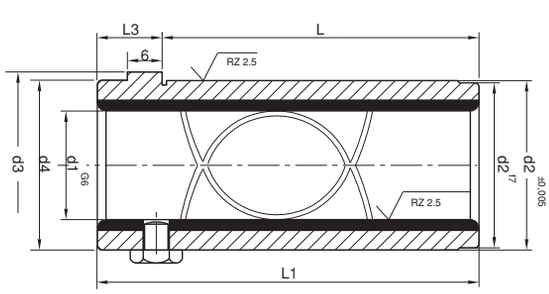
Malzeme / Metarial
CK45 (1045)
Sertlik / Hardness
56 - 60 HRC
Isıl İşlem / Heat Treatment
İndüksiyon Sertleştirme
/ Induction Hardening











Sipariş Kodu	d1	L1	L	d2	d3	d4	L3
U26-193523	19	35	23	32	40	32	12
4533		45	33				
U26-203523	20	35	23	32	40	32	12
4533		45	33				
U26-243523	24	35	23	40	48	40	12
4533		45	33				
U26-253523	25	35	23	40	48	40	12
4533		45	33				
U26-304230	30	42	30	48	55	48	12
5240		52	40				

• Ø80 siparise göre üretilir. / *Ø80 available on customer request*

Sipariş Kodu	d1	L1	L	d2	d3	d4	L3
U26-324230	32	42	30	48	55	48	12
5240		52	40				
U26-385237	38	52	37	58	65	58	15
6247		62	47				
U26-405237	40	52	37	58	65	58	15
6247		62	47				
U26-486547	48	65	47	70	80	70	18
7557		75	57				
U26-506547	50	65	47	70	80	70	18
7557		75	57				
U26-638060	63	80	60	85	93	85	20

U27

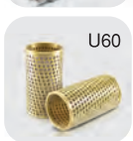
Şapkalı Bilyalı Burç
Guide Bush

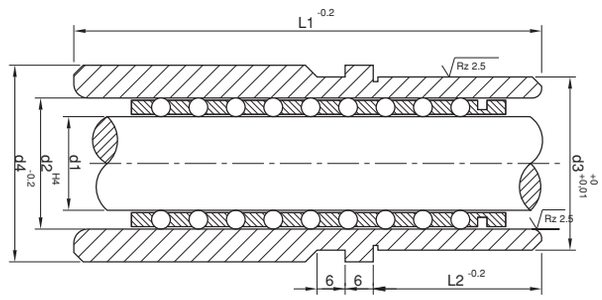
Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened











Sipariş Kodu	d1	L1	L2	d2	d3	d4
U27-1626	16	70	26	22	30	34
36			36			
U27-2026	20	80	26	26	34	39
36			36			
U27-2526	25	90	26	31	40	44
36			36			
U27-3036	30	100	36	38	48	54
46			46			
U27-4036	40	112	36	48	58	64
46			46			
U27-5046	50	130	46	58	70	79
56			56			

U28

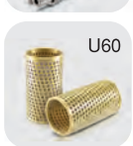
Kısa Bilyalı Burç
Guide Bush

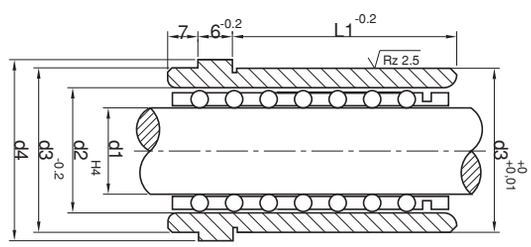
Malzeme / Metarial
1.7131 (16MnCr5)
Sertlik / Hardness
61 - 63 HRC
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened











Sipariş Kodu	d1	L1	d2	d3	d4
U28-1626	16	26	22	30	34
36		36			
U28-2026	20	26	26	34	39
36		36			
U28-2526	25	26	31	40	44
36		36			
U28-3036	30	36	38	48	54
46		46			
U28-4036	40	36	48	58	64
46		46			
U28-5046	50	46	58	70	79
56		56			

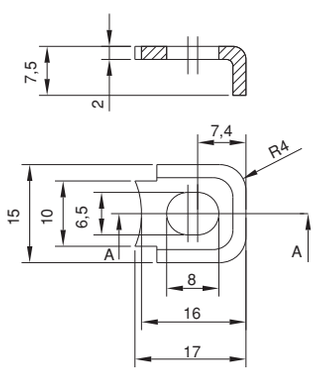
U90

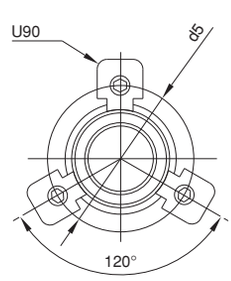
Bağlama Pabucu
Pillar & Bush Clamp

Sertlik / Hardness
40 - 42 HRC



A-A KESİTİ





U60

Bilyalı Burç
Ball Guide Bush

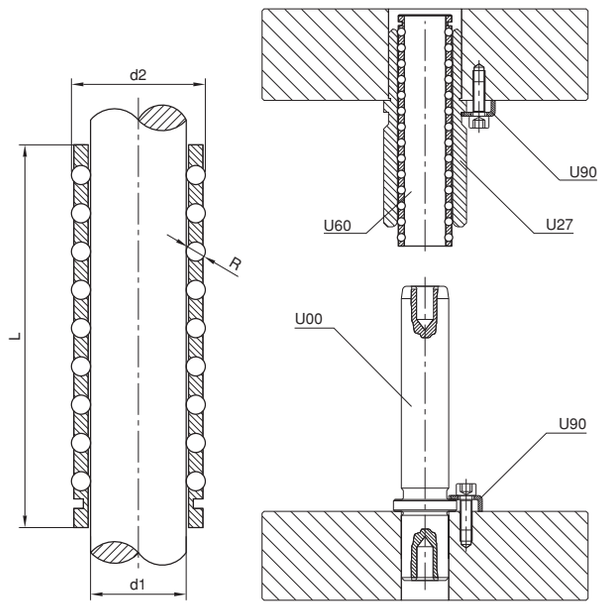
Malzeme / Metarial
MS 58
Bilya Malzemesi / Ball Metarial
1.3505 (100Cr6)









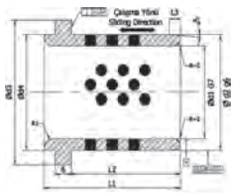


Sipariş Kodu	d1	L	d2	R	n
U60-1645	16	45	22	3	140
56		56			196
71		71			238
U60-2045	20	45	26	3	180
56		56			234
71		71			306
80		80			342
95		95			414
U60-2545	25	45	31	3	180
56		56			240
71		71			280
80		80			320
95		95			440
105		105			480
120		120			560
U60-3045	30	45	38	4	140
56		56			180
71		71			240
80		80			280
95		95			340
105		105			380
120		120			420
140		140			500
U60-4056	40	56	48	4	216
71		71			288
80		80			336
95		95			408
105		105			456
120		120			528
140		140			624
160		160			720

Sipariş Kodu	d1	L	d2	R	n
U60-5071	50	71	58	4	360
80		80			390
95		95			480
105		105			540
120		120			600
140		140			720
160		160			840
U60-6385	63	85	71	4	504
95		95			558
105		105			612
120		120			720
140		140			828
160		160			972

D30.01

Malzeme : SAE 430B
Grafitli Burç Sertlik : HB≥180





Sipariş Kodu	FORD WDX1370	NAAMS G61	OPEL U2802-99(A)	Ø d1	L1	d2	d3	d4	L2	L3	R1
D30.01_020040				20	40	28	34	28	30	4	3
025040	11025	2540	F33020019	25	40	32	40	32	30	4	3
030050				30	50	40	50	40	40	4	3
032050	11032	3250	F33020020	32	50	40	50	40	40	4	3
040063	11040	4063	F33020021	40	63	50	63	50	50	5	3
050071	11050	5071	F33020022	50	71	63	71	63	56	6	5
063080	11063	6300	F33020023	63	80	80	90	80	63	8	6
080100	11080	8010	F33020024	80	100	100	112	100	80	10	8
100125	11100	1012	F33020025	100	125	125	140	125	106	12	10
125160	11125	1216	F33020026	125	160	160	180	160	132	12	12

D30.02

Malzeme : SAE 430B
Grafitli Burç Sertlik : HB≥180





Sipariş Kodu	FORD WDX1370	FORD WSA 003	Ø d1	L	d2	d3	l1	R
D30.02_020035	05020	11020	20	35	28	36	8	2
025040			25	40	32	40	8	6
030055			30	55	40	50	8	6
032055	05032		32	55	40	50	8	6
040070	05040		40	70	50	60	8	6
042070	05042	11042	42	70	50	60	8	6
050075	05050		50	75	63	75	12	8
052075	05052	11052	52	75	63	75	12	8
063080	05063		63	80	80	90	12	8
080100	05080		80	100	100	110	12	8
100125	05100		100	125	125	135	12	8

D30.03

Malzeme : SAE 430B
Grafitli Burç Sertlik : HB≥180

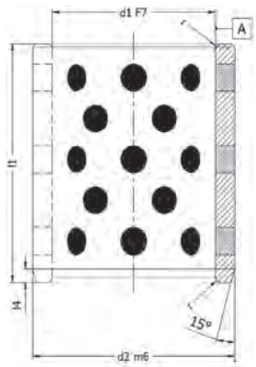




Sipariş Kodu	PSA MABEC CODE	RENAULT MABEC CODE	Ø A	L	B	C	F	H
D30.03_025040			25	40	35	40	5	5
032050			32	50	44	50	6	5
040063	X345 274 670	M764 539 401	40	63	52	60	8	8
050080	X345 281 970	M764 544 501	50	80	63	71	10	8
063100	X345 287 270	M764 549 501	63	100	80	90	12	10
080125	X345 292 370	M764 554 601	80	125	100	112	16	10
100160		X345 298 500	100	160	125	140	20	10

D30.04

Malzeme : SAE 430B
Grafitli Burç Sertlik : HB≥180





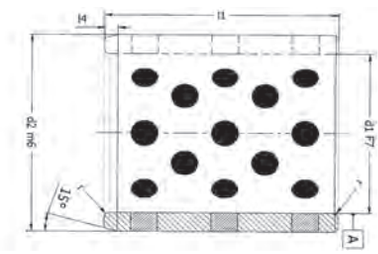
Sipariş Kodu	Ø d1	l1	d2	l4	r
D30.04_20015028	20	15	28	4	0.75
016028		16	28		
016030		16	30		
020028		20	28		
020030		20	30		
025028		25	28		
025030		25	30		
030028		30	28		
030030		30	30		
035028		35	28		
035030		35	30		
037028		37	28		
040026		40	26		
040028		40	28		
040030		40	30		
050028		50	28		
D30.04_25016033	25	16	33	4	0.75
016035		16	35		
020033		20	33		
020035		20	35		
025033		25	33		
025035		25	35		
030033		30	33		
030035		30	35		
035033		35	33		
035035		35	35		
040033		40	33		
040035		40	35		
047033		47	33		
050032		50	32		
050033		50	33		
050035		50	35		
060033		60	33		
D30.04_30020038	30	20	38	4	0.75
020040		20	40		
025038		25	38		
025040		25	40		
030038		30	38		
030040		30	40		
035038		35	38		
035040		35	40		
040038		40	38		

Not:
Toleranssız ölçüler EN-22768 -1 standardına göre üretilir.
Belirtilmeyen köşeler R=0,5

D30.04

Grafitli Burç

Malzeme : SAE 430B
Sertlik : HB≥180





	Ø				
Sipari• Kodu	**d1**	**l1**	**d2**	l4	r
D30.04_30040040	30	40	40	4	0.75
050038		50	38		
050040		50	40		
060038		60	38		
060040		60	40		
060042		60	42		
D30.04_35020045	35	20	45	4	0.75
025044		25	44		
025045		25	45		
030044		30	44		
030045		30	45		
035044		35	44		
035045		35	45		
040044		40	44		
040045		40	45		
050044		50	44		
050045		50	45		
060044		60	44		
060045		60	45		
D30.04_40020050	40	20	50	4	1.5
025050		25	50		
025055		25	55		
030050		30	50		
030055		30	55		
035050		35	50		
035055		35	55		
040050		40	50		
040055		40	55		
050050		50	50		
050055		50	55		
060050		60	50		
060055		60	55		
070050		70	50		
077050		77	50		
080050		80	50		
D30.04_50030060	50	30	60	4	1.5
030062		30	62		
030065		30	65		
035060		35	60		
035062		35	62		
040060		40	60		
040062		40	62		

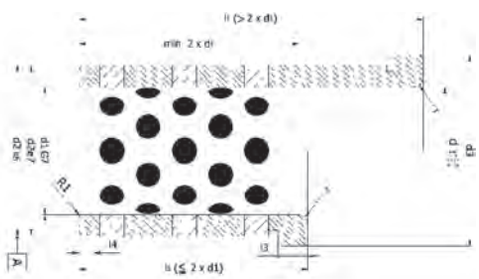
	Ø				
Sipariş Kodu	**d1**	**l1**	**d2**	l4	r
D30.04_50040065	50	40	65	4	1.5
050060		50	60		
050062		50	62		
050065		50	65		
060060		60	60		
060062		60	62		
060065		60	65		
070060		70	60		
070062		70	62		
070065		70	65		
080060		80	60		
080065		80	65		
095060		95	60		
100065		100	65		
D30.04_63030074	63	30	74	4	2
030075		30	75		
035074		35	74		
035075		35	75		
040074		40	74		
040075		40	75		
050074		50	74		
050075		50	75		
060074		60	74		
060075		60	75		
070074		70	74		
070075		70	75		
080074		80	74		
080075		80	75		
100075		100	75		

D30.05

Grafitli Burç

Malzeme : SAE 430B
Sertlik : HB≥180



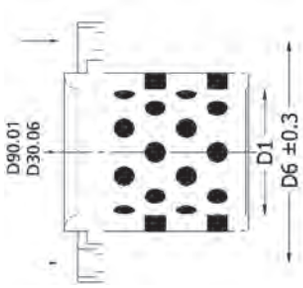


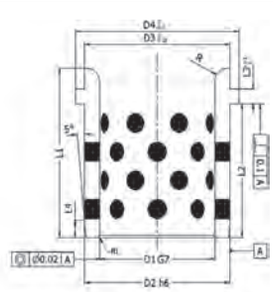
	Ø						
Sipari• Kodu	**d1**	**l1**	d2	d3	r	l3	l4
D30.05_20017	20	17	26	31	2	6	2
022		22					
027		27					
036		36					
046		46					
056		56					
066		66					
076		76					
D30.05_25046	25	46	32	38	3	6	3
056		56					
066		66					
076		76					
086		86					
D30.05_30027	30	27	42	47	3	6	4
036		36					
046		46					
056		56					
066		66					
076		76					
086		86					
096		96					
116		116					
D30.05_40046	40	46	54	60	3	10	5
056		56					
066		66					
076		76					
086		86					
096		96					
116		116					
136		136					
156		156					
D30.05_50076	50	76	66	72	3	10	5
086		86					
096		96					
116		116					
136		136					
156		156					
196		196					
D30.05_60096	60	96	80	86	3	20	5
116		116					
136		136					
156		156					
196		196					

D30.06

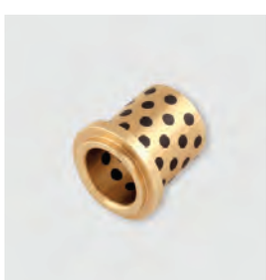
Grafitli Burç

Malzeme : SAE 430B
Sertlik : HB≥180





			Ø									
Sipariş Kodu	BMW CODE B2 2933 1	PSA MABEC CODE	**D1**	**L1**	D2	D3	D4	D6	L2	L3	L4	R
D30.06_025040	2168699		25	40	32	32	40	58	30	6.3	3	3
032050	2168700		32	50	40	40	50	66	40	6.3	4	3
040063	2168701		40	63	50	50	63	79	50	6.3	5	3
050071	2168702		50	71	63	63	71	89	56	6.3	6.3	5
063080	2168703		63	80	80	80	90	123	63	10	8	6
080100	2168704		80	100	100	100	112	143	80	10	10	8
100125	2168705	Z000499644	100	125	125	125	140	168	106	10	12.5	10
125160	2168706	Z000499646	125	160	160	160	180	203	132	10	16	12
160200	2168707		160	200	200	200	220	243	170	10	16	18



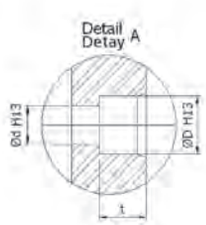
D80.01

Grafitli Sürtünme Plakası

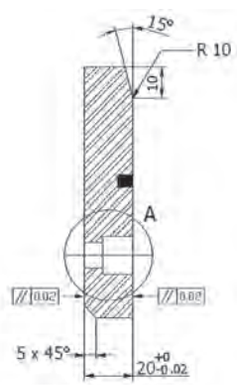
Malzeme : SAE 430B
Sertlik : HB≥180

Sipariş Kodu	VW/AUDI 39D863	FORD WDX 13-70	OPEL 3425	W	L	w1	L1	L2	ØD	Ød	t
D80.01_050080	12			50	80	25	25	30	15	9	9
100	13	02050100-Y	F33 04 0000		100			50	20	13.5	13
125	14		F33 04 0001		125			75			
160	15	02050160-Y	F33 04 0002		160			110			
200	16	02050200-Y	F33 04 0003		200			150			
D80.01_080080	22			80	80	40	25	30	20	13.5	13
100	23	02080100-Y	F33 04 0004		100			50			
125	24		F33 04 0005		125			75			
160	25	02080160-Y	F33 04 0006		160			110			
200	26	02080200-Y	F33 04 0007		200			150			
250		02080250-Y			250		40	170			
315		02080315-Y			315			235			
D80.01_100100	33	02100100-Y	F33 04 0010	100	100	50	25	50	20	13.5	13
125	34	02100125-Y	F33 04 0011		125			75			
160	35	02100160-Y	F33 04 0012		160			110			
200	36	02100200-Y	F33 04 0013		200			150			
250		02100250-Y			250		40	170			
315		02100315-Y			315			235			



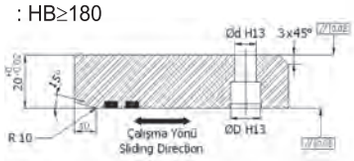


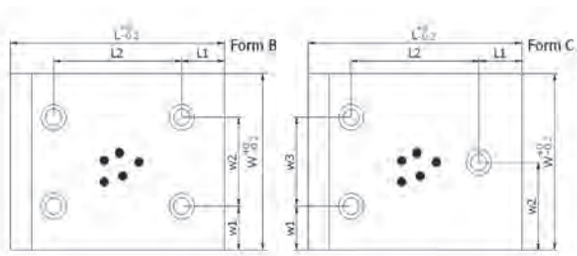


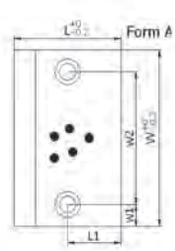


D80.02

Grafitli Sürtünme Plakası
Malzeme : SAE 430B
Sertlik : HB≥180





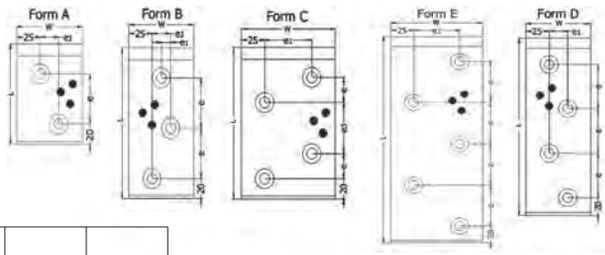


Sipariş Kodu	VW/AUDI 39D863	FORD WDX 13-70	OPEL 3425	W	L	w1	w2	w3	L1	L2	ØD	Ød	t	Form
D80.02_080050	21			80	50	25	30		25		15	9	9	A
D80.02_100050	31	02100050-Y	F33 04 0008	100	50	25	50		25		20	13.5	13	A
080	32		F33 04 0009	100	80				40					
D80.02_125050	41			125	50	25	75		25		20	13.5	13	A
080	42		F33 04 0014	125	80				40					
100	43	02125100-Y	F33 04 0015	125	100		62.5	75	25	50				C
125	44		F33 04 0016	125	125					75				
160	45	02125160-Y	F33 04 0017	125	160					110				
200	46	02125200-Y		125	200					150				
250		02125250-Y		125	250				40	170				
315		02125315-Y		125	315					235				
D80.02_160050	51			160	50	25	110		25		20	13.5	13	A
080	52			160	80				40					
100	53	02160100-Y	F33 04 0018	160	100		80	110	25	50				C
125	54		F33 04 0019	160	125					75				
160	55	02160160-Y	F33 04 0020	160	160					110				
200	56	02160200-Y		160	200					150				
250		02160250-Y		160	250		110		40	170				B
315		02160315-Y		160	315					235				



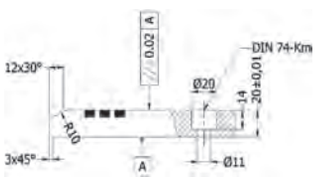
D80.03

Grafitli Sürtünme Plakası
Malzeme : SAE 430B
Sertlik : HB≥180



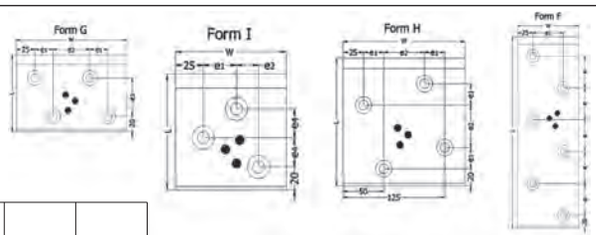


Sipariş Kodu	PSA Mabec Code	RENAULT Mabec Code	W	L	e	e1	e2	e3	Form
D80.03_070100	Z000 166 214	R100 092 843	70	100	50	20			A
150	Z000 166 216	R100 092 844		150		10	20		B
200	Z000 166 221	R100 092 845		200		20			D
D80.03_100150	Z000 166 217	R100 092 883	100	150	25	50		50	C
200	Z000 166 222	R100 092 884		200	50	50			D
250	Z000 166 225	R100 092 885		250		50			E
D80.03_150200	Z000 166 223	R100 092 890	150	200	50	100			D
250	Z000 166 226	R100 092 893		250		100			E



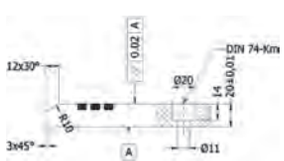
D80.03

Grafitli Sürtünme Plakası
Malzeme : SAE 430B
Sertlik : HB≥180





Sipari• Kodu	PSA Mabec Code	RENAULT Mabec Code	W	L	e	e1	e2	e3	e4	Form
D80.03_100100	Z000 166 215	R100 092 846	100	100		30	20		25	I
300	Z000 166 227	R100 092 886		300	50	50				F
D80.03_150100	Z000 166 218	R100 092 887	150	100		25	50	50		G
150	Z000 166 219	R100 092 888		150		25	50			H
300	Z000 166 228	R100 092 894		300	50	100				F
D80.03_200100	Z000 166 224	R100 092 895	200	100		50	50	50		G

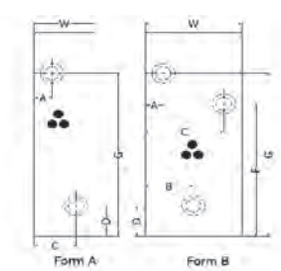


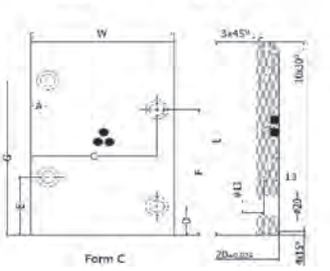
D80.04

Grafitli Sürtünme Plakası
Malzeme : SAE 430B
Sertlik : HB≥180



Sipari• Kodu	FORD CODE WDX1362	W	L	A	B	C	D	E	F	G	Form
D80.04_050100	02050100-Y	50	100	25		25	30			60	A
150	02050150-Y		150				30			100	A
200	02050200-Y		200				40			160	A
D80.04_080100	02080100-Y	80	100	20		60	30			60	A
150	02080150-Y		150				30			110	A
200	02080200-Y		200				40			160	A
250	02080250-Y		250				40			210	A
315	02080315-Y		315		40		40		250	275	B
D80.04_100100	02100100-Y	100	100	22		78	30			60	A
150	02100150-Y		150				30			110	A
200	02100200-Y		200		50		40		135	160	B
250	02100250-Y		250		50		40		185	210	B
315	02100315-Y		315		50		40		250	275	B
D80.04_125100	02125100-Y	125	100	25		100	30			60	A
150	02125150-Y		150				30			110	A
200	02125200-Y		200		62		40		135	160	B
250	02125250-Y		250		62		40		185	210	B
315	02125315-Y		315				40	65	250	275	C
D80.04_160100	02160100-Y	160	100	30		130	30			60	A
150	02160150-Y		150				30			110	A
200	02160200-Y		200		80		40		135	160	B
250	02160250-Y		250				40	65	185	210	C
315	02160315-Y		315				40	65	250	275	C

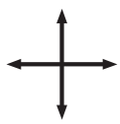


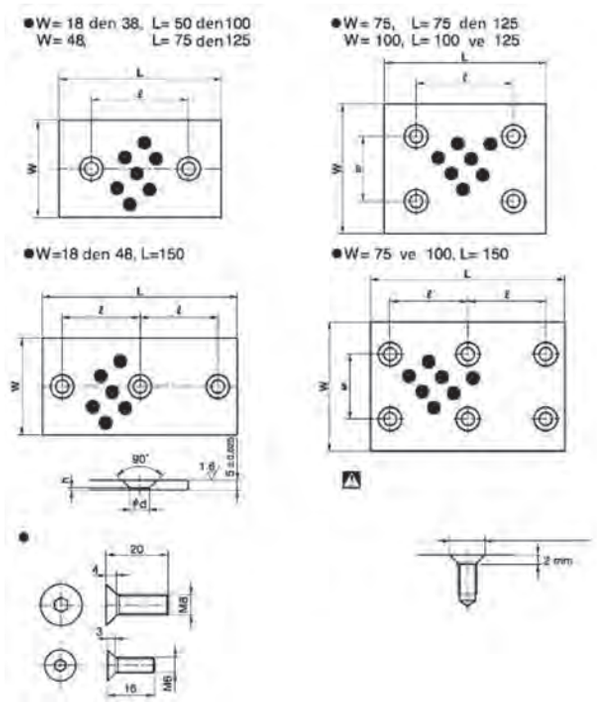


UWP

Grafitli Sürtünme Plakası
Malzeme : SAE 430B
Sertlik : HB≥180







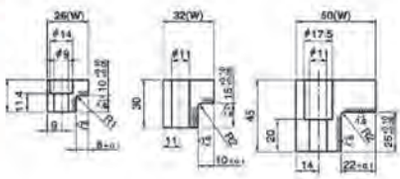
Sipariş Kodu	W	L	w	l	d	h	Montaj Cıvatası
UWP 18X50	18	50	-	20	6.5	1.5	M6
UWP 18X75		75		45			
UWP 18X100		100		70			
UWP 18X150		150		60			
UWP 28X50	28	50	-	20	10	0.8	M8
UWP 28X75		75		45			
UWP 28X100		100		70			
UWP 28X150		150		60			
UWP 38X50	38	50	-	20			
UWP 38X75		75		45			
UWP 38X100		100		70			
UWP 38X150		150		60			
UWP 48X75	48	75	-	45			
UWP 48X100		100		70			
UWP 48X125		125		95			
UWP 48X150		150		60			
UWP 75X75	75	75	45	45			
UWP 75X100		100		70			
UWP 75X125		125		95			
UWP 75X150		150		60			
UWP 100X100	100	100	70	70			
UWP 100X125		125		95			
UWP 100X150		150		60			

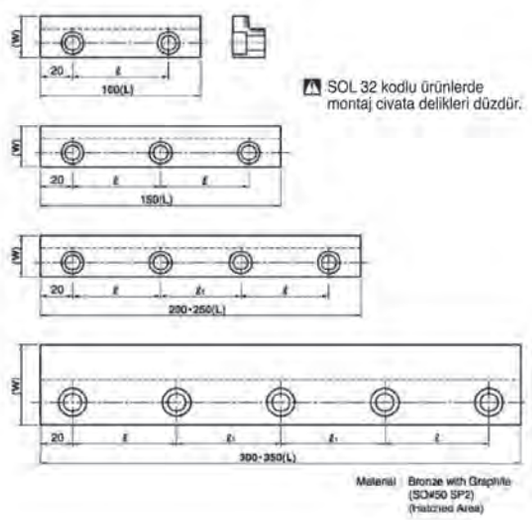
Grafitli Sürtünme Plakası / UWP (İnce tip 5mm)

SOL

Grafitli Sürtünme Plakası
Malzeme : SAE 430B
Sertlik : HB≥180







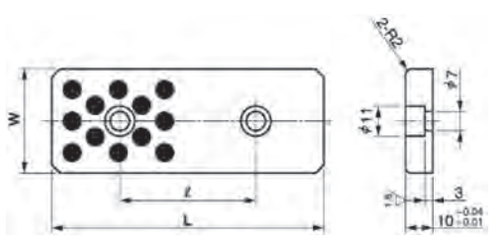
Sipariş Kodu	W	L	Cıvata Pozisyonu		Cıvata Delik Sayısı
			l	l1	
SOL - 26X100	26	100	60	-	2
SOL - 26X150		150	55	-	3
SOL - 26X200		200	55	50	4
SOL - 32X100	32	100	60	-	2
SOL - 32X150		150	55	-	3
SOL- 32X200		200	55	50	4
SOL- 32X250		250	70	70	
SOL - 50X200	50	200	55	50	4
SOL- 50X250		250	70	70	
SOL - 50X300		300	65	65	5
SOL- 50X350		350	80	75	

SOML

Grafitli Sürtünme Plakası
Malzeme : SAE 430B
Sertlik : HB≥180

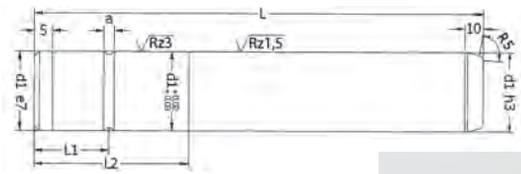






Sipariş Kodu	w	L	l
SOML 18X75	18	75	45
SOML 18X100		100	50
SOML 18X125		125	75
SOML 18X150		150	100
SOML 28X75	28	75	45
SOML 28X100		100	50
SOML 28X125		125	75
SOML 28X150		150	100
SOML 38X75	38	75	45
SOML 38X100		100	50
SOML 38X125		125	75
SOML 38X150		150	100
SOML 48X75	48	75	45
SOML 48X100		100	50
SOML 48X125		125	75
SOML 48X150		150	100

Grafitli Sürtünme Plakası / SOML (Mini tip 10mm)



D10

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

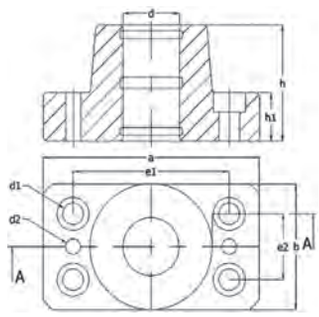


	Ø				
Sipariş Kodu	**d1**	**L**	L1	L2	a
D10_40180	40	180	37	77	8
220		220			
260		260			
300		300			
355		355			
400		400			
D10_50200	50	200	47	95	8
240		240			
280		280			
315		315			
355		355			
400		400			
450		450			
D10_63240	63	240	60	120	8
280		280			
315		315			
355		355			
400		400			
450		450			
D10_80240	80	240	60	120	8
280		280			
315		315			
355		355			
400		400			
450		450			
500		500			

D70.01

Döküm Blok
Malzeme : GG25



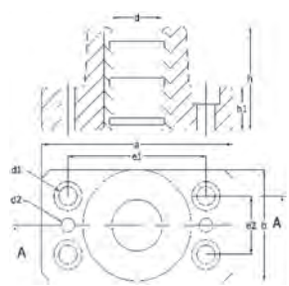


	Ø									
Sipariş Kodu	**d**	d1	d2	h	h1	a	b	e1	e2	M
D70.01_40	40	13	10	77	30	130	80	95	45	12
50	50	15	10	95	35	160	96	118	55	14
63	63	17	12	120	35	180	110	132	62	16
80	80	21	14	120	40	215	130	160	75	20

D70.02

Bronzlu Döküm Blok
Malzeme : GG25





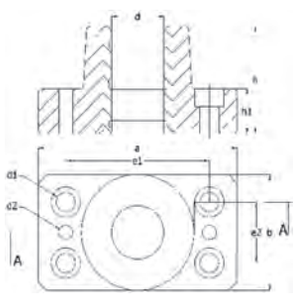
	Ø									
Sipariş Kodu	**d**	d1	d2	h	h1	a	b	e1	e2	M
D70.02_40	40	13	10	77	30	130	80	95	45	12
50	50	15	10	95	35	160	96	118	55	14
63	63	17	12	120	35	180	110	132	62	16
80	80	21	14	120	40	215	130	160	75	20

D70.03

Çelik Kaymalı Döküm Blok

Malzeme : GG25
Sertlik : 62± 2 HRC
Isıl İşlem Sementasyon





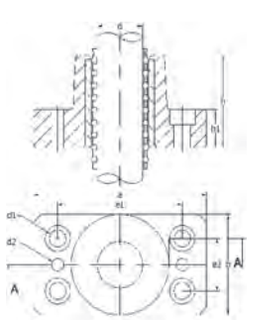
	Ø									
Sipariş Kodu	**d**	d1	d2	h	h1	a	b	e1	e2	M
D70.03_40	40	13	10	77	30	130	80	95	45	12
50	50	15	10	95	35	160	96	118	55	14
63	63	17	12	120	35	180	110	132	62	16
80	80	21	14	120	40	215	130	160	75	20

D70.04

Bilyalı Döküm Blok

Malzeme : GG25
Sertlik : 62± 2 HRC
Isıl İşlem Sementasyon





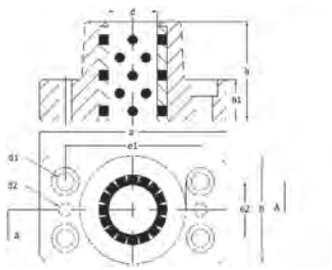
	Ø									
Sipariş Kodu	**d**	d1	d2	h	h1	a	b	e1	e2	M
D70.04_ 0	40	13	10	77	30	130	80	95	45	12
50	50	15	10	95	35	160	96	118	55	14
63	63	17	12	120	35	180	110	132	62	16
80	80	21	14	120	40	215	130	160	75	20

D70.05

Grafitli Döküm Blok

Malzeme : GG25 / SAE 430B
Sertlik : HB≥180

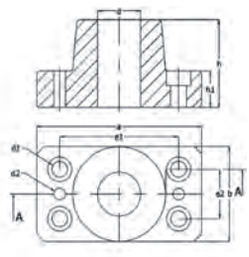




Sipariş Kodu	Ø d	d1	d2	h	h1	a	b	e1	e2	M
D70.05_40	40	13	10	77	30	130	80	95	45	12
50	50	15	10	95	35	160	96	118	55	14
63	63	17	12	120	35	180	110	132	62	16
80	80	21	14	120	40	215	130	160	75	20

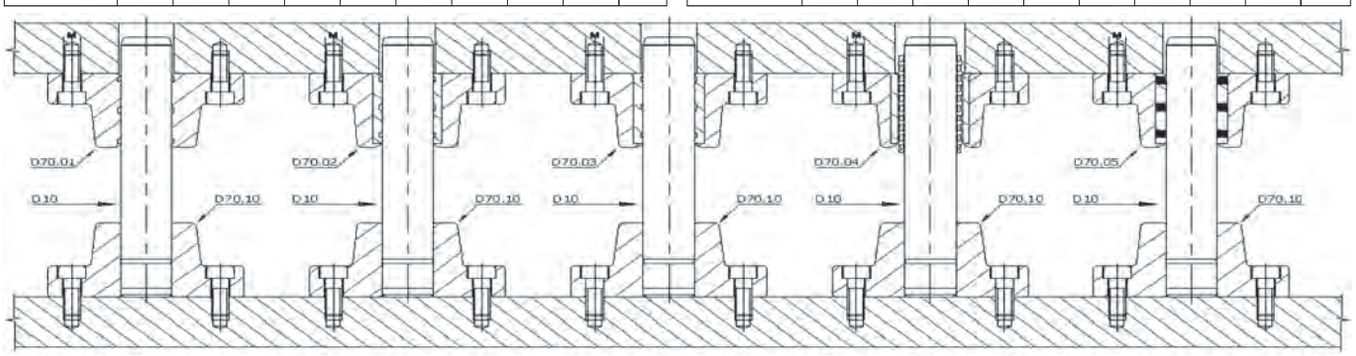
D70.10

Kolon Sabitleme Bloğu
Malzeme : GG25





Sipariş Kodu	Ø d	d1	d2	h	h1	a	b	e1	e2	M
D70.10_40	40	13	10	77	30	130	80	95	45	12
50	50	15	10	95	35	160	96	118	55	14
63	63	17	12	120	35	180	110	132	62	16
80	80	21	14	120	40	215	130	160	75	20

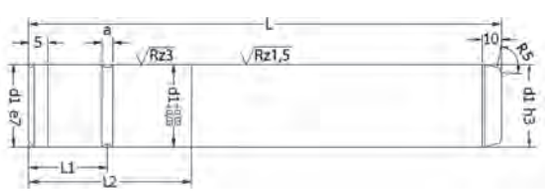


D11

Kolon

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

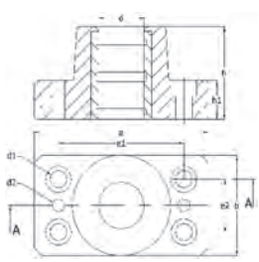




Sipariş Kodu	Ø d1	L	L1	L2	a
D11_40160	40	160	25	50	8
180		180			
200		200			
225		225			
250		250			
280		280			
D11_50160	50	160	35	70	8
180		180			
200		200			
225		225			
250		250			
280		280			
315		315			

D71.02

Bronzlu Döküm Blok
Malzeme : GG25





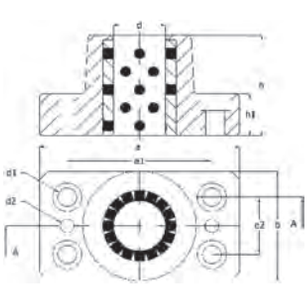
Sipariş Kodu	Ø d	d1	d2	h	h1	a	b	e1	e2	M
D71.02_40	40	13	10	70	25	130	75	100	44	12
50	50	13	10	85	25	155	90	125	60	12

D71.05

Grafitli Döküm Blok

Malzeme : GG25 / SAE 430B
Sertlik : HB≥180



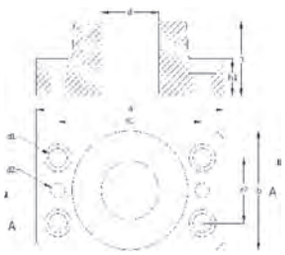


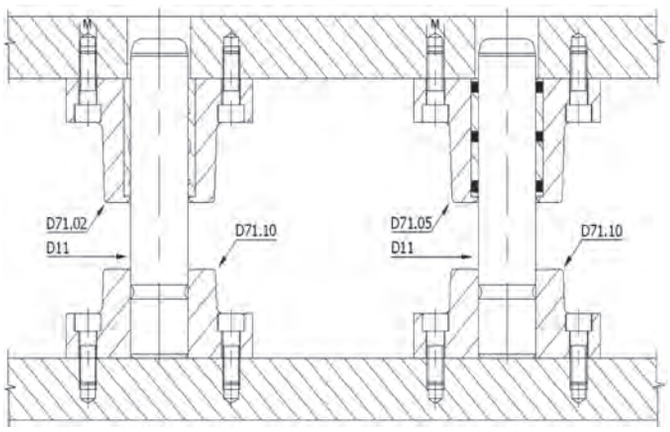
Sipariş Kodu	Ø d	d1	d2	h	h1	a	b	e1	e2	M
D71.05_40	40	13	10	70	25	130	75	100	44	12
50	50	13	10	85	25	155	90	125	60	12

D71.10

Kolon Sabitleme Bloğu Malzeme : GG25







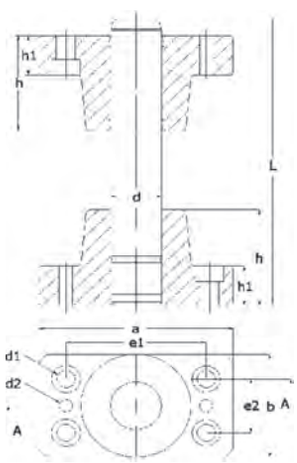
	Ø									
Sipariş Kodu	**d**	d1	d2	h	h1	a	b	e1	e2	M
D71.10_40	40	13	10	50	25	130	75	100	44	12
50	50	13	10	70	25	155	90	125	60	12

D70.011

Döküm Set

Malzeme : GG25 / Asil Çelik 1.1213 (Cf 53)
Sertlik : 62± 2 HRC
Isıl İşlem : İndüksiyon





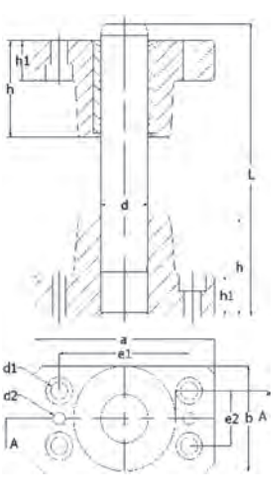
	Ø										
Sipariş Kodu	**d**	**L**	d1	d2	h	h1	a	b	e1	e2
D70.011_40180	40	180	13	10	77	30	130	80	95	45
220		220								
260		260								
300		300								
355		355								
400		400								
D70.011_50200	50	200	15	10	95	35	160	96	118	55
240		240								
280		280								
315		315								
355		355								
400		400								
450		450								
D70.011_63240	63	240	17	12	120	35	180	110	132	62
280		280								
315		315								
355		355								
400		400								
450		450								
D70.011_80240	80	240	21	14	120	40	215	130	160	75
280		280								
315		315								
355		355								
400		400								
450		450								
500		500								

D70.021

Bronzlu
Döküm Set

Malzeme : GG25 / Bronze / Asil Çelik 1.1213
Sertlik : 62± 2 HRC
Isıl İşlem : İndüksiyon





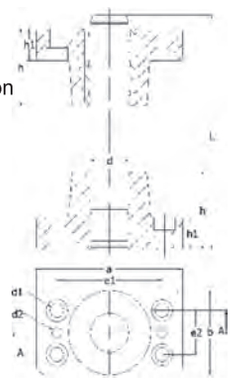
	Ø										
Sipariş Kodu	**d**	**L**	d1	d2	h	h1	a	b	e1	e2
D70.021_40180	40	180	13	10	77	30	130	80	95	45
220		220								
260		260								
300		300								
355		355								
400		400								
D70.021_50200	50	200	15	10	95	35	160	96	118	55
240		240								
280		280								
315		315								
355		355								
400		400								
450		450								
D70.021_63240	63	240	17	12	120	35	180	110	132	62
280		280								
315		315								
355		355								
400		400								
450		450								
D70.021_80240	80	240	21	14	120	40	215	130	160	75
280		280								
315		315								
355		355								
400		400								
450		450								
500		500								

D70.031

Çelik Kaymalı Döküm Set

Malzeme : GG25
Sertlik : 62± 2 HRC
Isıl İşlem : İndüksiyon Sementasyon





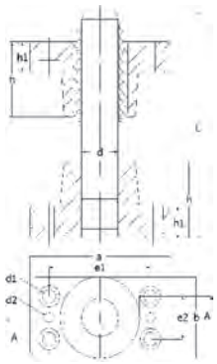
	Ø									
Sipariş Kodu	d	L	d1	d2	h	h1	a	b	e1	e2
D70.031_40180	40	180	13	10	77	30	130	80	95	45
220		220								
260		260								
300		300								
355		355								
400		400								
D70.031_50200	50	200	15	10	95	35	160	96	118	55
240		240								
280		280								
315		315								
355		355								
400		400								
450		450								
D70.031_63240	63	240	17	12	120	35	180	110	132	62
280		280								
315		315								
355		355								
400		400								
450		450								
D70.031_80240	80	240	21	14	120	40	215	130	160	75
280		280								
315		315								
355		355								
400		400								
450		450								
500		500								

D70.041

Bilyalı Döküm Set

Malzeme : GG25
Sertlik : 62± 2 HRC
Isıl İşlem : İndüksiyon Sementasyon





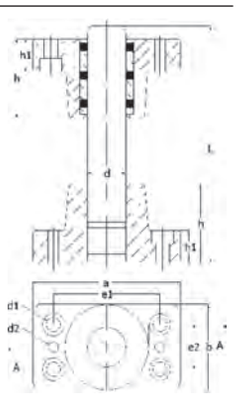
	Ø									
Sipariş Kodu	d	L	d1	d2	h	h1	a	b	e1	e2
D70.041_40180	40	180	13	10	77	30	130	80	95	45
220		220								
260		260								
300		300								
355		355								
400		400								
D70.041_50200	50	200	15	10	95	35	160	96	118	55
240		240								
280		280								
315		315								
355		355								
400		400								
450		450								
D70.041_63240	63	240	17	12	120	35	180	110	132	62
280		280								
315		315								
355		355								
400		400								
450		450								
D70.041_80240	80	240	21	14	120	40	215	130	160	75
280		280								
315		315								
355		355								
400		400								
450		450								
500		500								

D70.051

Grafitli Döküm Set

Malzeme : GG25
SAE 430B
Sertlik : 62± 2 HRC
HB≥180
Isıl İşlem : İndüksiyon





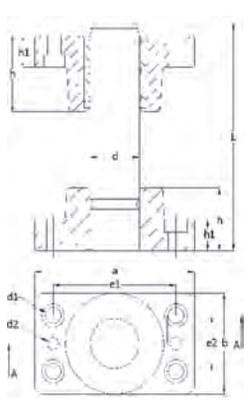
	Ø									
Sipariş Kodu	d	L	d1	d2	h	h1	a	b	e1	e2
D70.051_40180	40	180	13	10	77	30	130	80	95	45
220		220								
260		260								
300		300								
355		355								
400		400								
D70.051_50200	50	200	15	10	95	35	160	96	118	55
240		240								
280		280								
315		315								
355		355								
400		400								
450		450								
D70.051_63240	63	240	17	12	120	35	180	110	132	62
280		280								
315		315								
355		355								
400		400								
450		450								
D70.051_80240	80	240	21	14	120	40	215	130	160	75
280		280								
315		315								
355		355								
400		400								
450		450								

D71.021

Bronzlu Döküm Set

Malzeme : GG25 / Bronze
Sertlik : 62± 2 HRC
Isıl İşlem : İndüksiyon



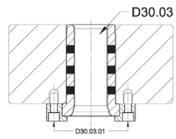


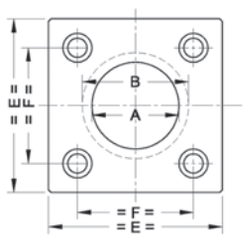
	Ø									
Sipariş Kodu	d	L	d1	d2	h	h1	a	b	e1	e2
D71.021_40160	40	160	13	10	70	25	130	75	100	44
180		180								
200		200								
225		225								
250		250								
280		280								
D71.10_40	40		13	10	50	25	130	75	100	44
D71.021_50160	50	160	13	10	85	25	155	90	125	60
180		180								
200		200								
225		225								
250		250								
280		280								
315		315								
D71.10_50	50		13	10	70	25	155	90	125	60

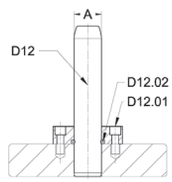
D12.01

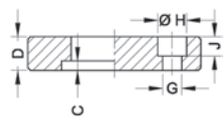
Kolon Tutucu Flanş / Clamping Flange - AFNOR

Malzeme - Material : CK45

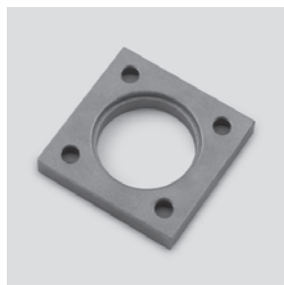








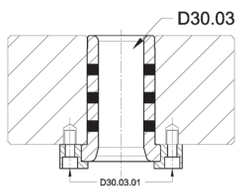
Sipariş Kodu	PSA Mabec Code	RENAULT Mabec Code	Ø A	B	G	H	J	D	C	E	F
D12.01_025	Z000 248 844	P483 784 100	25	28	6.6	11	7	10	2.7	45	31
032	P446 932 711	P483 784 600	32	37	6.6	11	7	10	4.2	56	36
040	P446 932 701	P483 795 100	40	45	6.6	11	7	12	4.2	70	50
050	P446 932 702	P483 795 401	50	55	9	16	9	14	4.2	80	55
063	P446 932 703	P483 795 801	63	70	11	18	11	18	6.2	100	70
080	P446 932 704	P483 796 001	80	87	13	22	14	20	6.2	110	80
100		P483 796 401	100	107	13	22	14	20	6.2	140	100

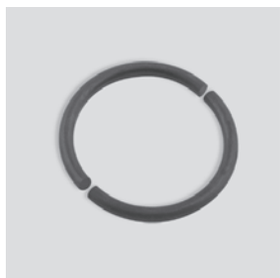


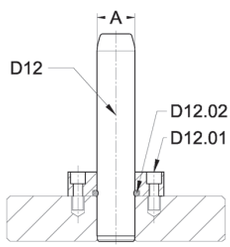
D12.02

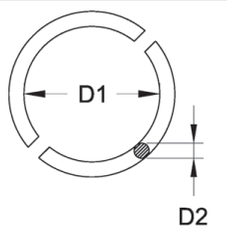
Tutucu Halka / Retaining Ring - AFNOR

Malzeme - Material: 1040







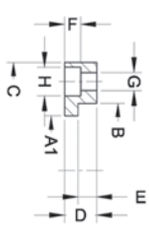


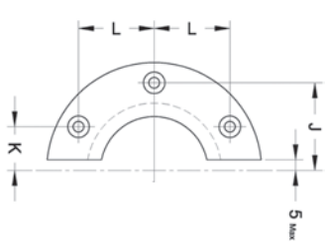
Sipariş Kodu	RENAULT Mabec Code	Ø A	D1	D2
D12.02_025	P446 180 200	25	22.5	2.5
032	P446 180 300	32	28	4
040	P446 180 400	40	36	4
050	P446 180 500	50	46	4
063	P446 180 600	63	57	6
080	P446 180 700	80	74	6
100	P446 180 800	100	94	6

D30.03.01

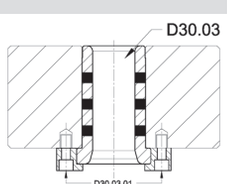
Burç Tutucu Flanş / Retaining Flange - AFNOR

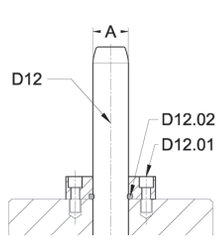
Malzeme - Material : CK45











Sipariş Kodu	PSA Mabec Code	RENAULT Mabec Code	Ø A	A1	B	C	D	E	F	G	H	K	J	L
D30.03.01_025		M321 534 500	25	32	41	72	10	5	7	6.6	12	20		20
032	P446 932 717	M321 544 501	32	40	51	80	12	6	7	6.6	12	21		25
040	P446 932 712	M321 548 501	40	50	61	100	12	8	7	6.6	12	14	41	38.5
050	P446 932 713	M321 552 601	50	63	72	125	16	10	9	9	16	17	49	46
063	P446 932 714	M321 556 601	63	80	91	140	20	12	11	11	18	17	57.5	55
080	P446 932 715	M321 560 601	80	100	113	180	25	16	13	14	22	20	72	70
100		M321 562 700	100	125	141	200	32	20	13	14	22	25	85	81

VEFA
KALIP MARKET
ve KALIP SETLERİ

ÜRÜN GRUBU

03

Kalıp Elemanları

Bu bölümde

01 İticiler ve pimler

02 Standart parçalar

03 Yolluk ve tarih elemanları

Teknik not

Ölçü ve stok bilgileri sipariş öncesinde teklif üzerinde teyit edilir.

Civa Çelikleri

Kod	Çap mm	Boy
CÇ 2	2	2 metre
CÇ 2,5	2,5	2 metre
CÇ 3	3	2 metre
CÇ 3,5	3,5	2 metre
CÇ 4	4	2 metre
CÇ 4,5	4,5	2 metre
CÇ 5	5	2 metre
CÇ 5,5	5,5	2 metre
CÇ 6	6	2 metre
CÇ 6,5	6,5	2 metre
CÇ 7	7	2 metre
CÇ 7,5	7,5	2 metre
CÇ 8	8	2 metre
CÇ 8,5	8,5	2 metre
CÇ 9	9	2 metre
CÇ 9,5	9,5	2 metre
CÇ 10	10	2 metre
CÇ 10,5	10,5	2 metre
CÇ 11	11	2 metre
CÇ 11,5	11,5	2 metre
CÇ 12	12	2 metre
CÇ 12,5	12,5	2 metre
CÇ 13	13	2 metre
CÇ 14	14	2 metre
CÇ 15	15	2 metre
CÇ 16	16	2 metre
CÇ 18	18	2 metre
CÇ 20	20	2 metre
CÇ 22	22	2 metre
CÇ 24	24	2 metre
CÇ 25	25	2 metre
CÇ 26	26	2 metre
CÇ 28	28	2 metre
CÇ 30	30	2 metre



Su ile sertleştirilmiş takım çeliği sıcak şekil verme - Isıl işlem

Dövme Tavı : 1050 - 800°C

Yumuşatma Tavı : 700°C

Tav Sertleği : 280 HB (Azami)

Gerilim Gerdirme / Tavlama : 600°C

Sertleştirmi İçin Ön Isı : 650°C

Sertleştirme : Ø12'ye kadar 800°C yağda
(Su verme) Ø12-20'ye kadar 820°C suda
Ø20-40'a kadar 820°C suda

Meneviş : 180°C - 200°C (1 saat / 25mm)

Kromlu Mil - İndüksiyonlu Mil



Sert krom kaplı miller 6 ile 100 mm çaplar arasında tedarik edilir.

Havşa Başlı İtici Pimler

Malzeme
Özel Alaşımlı Çelik 1.2516

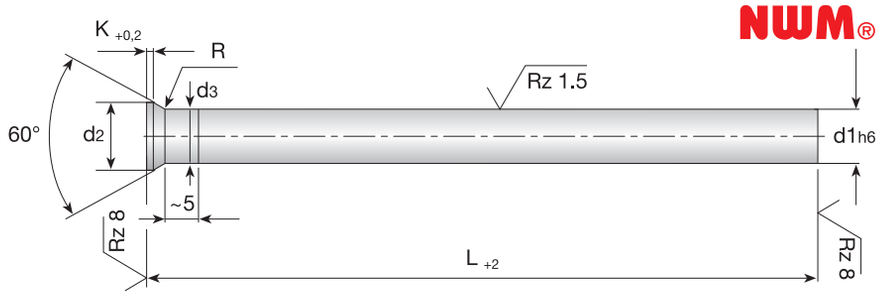
Sertlik Derecesi
Gövde : 60 ±62HRC
Kafa : 45 ±5HRC

Yüzey
Sertleştirilmiş, taşlanmış





İsteğinize göre özel ölçülerde tedarik edilmektedir.

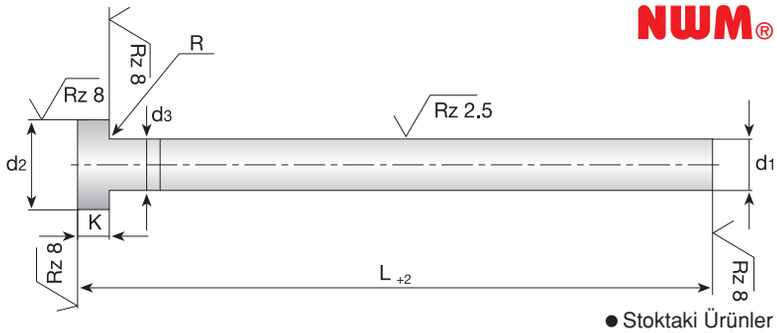


● Stoktaki Ürünler

d1 h6	d2	d3	K +0.2	L 80	100	125	160	200	250	315
1,0	1,8	d1 +0,03	0,5	●	●	●	●	●		
1,1	1,8			●	●	●	●	●	●	
1,2	2			●	●	●	●	●	●	
1,3	2			●	●	●	●	●	●	
1,4	2,2			●	●	●	●	●	●	
1,5	2,2			●	●	●	●	●	●	
1,6	2,5			●	●	●	●	●	●	
1,7	2,5			●	●	●	●	●	●	
1,8	2,8			●	●	●	●	●	●	
1,9	2,8			●	●	●	●	●	●	
2,0	3,0			●	●	●	●	●	●	●
2,1	3,2			●	●	●	●	●	●	
2,2	3,2			●	●	●	●	●	●	
2,3	3,5			●	●	●	●	●	●	
2,4	3,5			●	●	●	●	●	●	
2,5	3,5			●	●	●	●	●	●	●
2,6	4			●	●	●	●	●	●	
2,7	4			●	●	●	●	●	●	
2,8	4			●	●	●	●	●	●	
2,9	4			●	●	●	●	●	●	
3,0	4,5			●	●	●	●	●	●	●
3,1	4,5			●	●	●	●	●	●	
3,2	4,5			●	●	●	●	●	●	
3,3	4,5			●	●	●	●	●	●	
3,4	4,5			●	●	●	●	●	●	
3,5	5,0			●	●	●	●	●	●	●
3,6	5,0			●	●	●	●	●	●	
3,7	5,0			●	●	●	●	●	●	
3,8	5,0			●	●	●	●	●	●	
3,9	5,0			●	●	●	●	●	●	
4,0	5,5			●	●	●	●	●	●	●
4,1	5,5			●	●	●	●	●	●	
4,2	5,5			●	●	●	●	●	●	
4,3	5,5			●	●	●	●	●	●	
4,4	5,5			●	●	●	●	●	●	
4,5	6,0			●	●	●	●	●	●	●
4,6	6,0			●	●	●	●	●	●	
4,7	6,0			●	●	●	●	●	●	
4,8	6,0			●	●	●	●	●	●	
4,9	6,0			●	●	●	●	●	●	
5,0	6,5			●	●	●	●	●	●	●
5,1	6,5			●	●	●	●	●	●	
5,2	6,5			●	●	●	●	●	●	
5,3	6,5			●	●	●	●	●	●	
5,4	6,5			●	●	●	●	●	●	
5,5	7,0			●	●	●	●	●	●	●
5,6	7,0			●	●	●	●	●	●	
5,7	7,0			●	●	●	●	●	●	
5,8	7,0			●	●	●	●	●	●	
5,9	7,0			●	●	●	●	●	●	
6,0	8,0			●	●	●	●	●	●	●
6,5	9,0		1,0	●	●	●	●	●	●	●
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			●	●	●	●	●	●	●

Silindir Başlı İtici Pimler

NWM®



● Stoktaki Ürünler

d1 h6	d2	K	R	d3	L											
					80	100	125	160	200	250	315	400	500	630	800	1000
1,0	2,5	1,2	0,2	d1 +0,03		●	●	●	●	●						
1,1	2,5				●	●	●	●	●	●						
1,2	2,5				●	●	●	●	●	●						
1,3	3,0	1,5			●	●	●	●	●	●						
1,4	3,0				●	●	●	●	●	●						
1,5	3,0					●	●	●	●	●						
1,6	3,0				●	●	●	●	●	●						
1,7	3,0				●	●	●	●	●	●						
1,8	3,0				●	●	●	●	●	●						
1,9	3,0				●	●	●	●	●	●						
2,0	4,0	2,0				●	●	●	●	●	●	●	●			
2,1	4,0				●	●	●	●	●	●						
2,2	4,0				●	●	●	●	●	●						
2,3	4,0				●	●	●	●	●	●						
2,4	4,0				●	●	●	●	●	●						
2,5	5,0					●	●	●	●	●	●	●	●			
2,6	5,0				●	●	●	●	●	●						
2,7	5,0				●	●	●	●	●	●						
2,8	5,0				●	●	●	●	●	●						
2,9	5,0				●	●	●	●	●	●						
3,0	6,0	3,0	0,3			●	●	●	●	●	●	●	●	●		
3,1	6,0				●	●	●	●	●	●						
3,2	6,0				●	●	●	●	●	●						
3,3	6,0				●	●	●	●	●	●						
3,4	6,0				●	●	●	●	●	●						
3,5	7,0					●	●	●	●	●	●	●	●	●		
3,6	7,0				●	●	●	●	●	●						
3,7	7,0				●	●	●	●	●	●						
3,8	7,0				●	●	●	●	●	●						
3,9	7,0				●	●	●	●	●	●						
4,0	8,0					●	●	●	●	●	●	●	●	●		
4,1	8,0				●	●	●	●	●	●						
4,2	8,0				●	●	●	●	●	●						
4,3	8,0				●	●	●	●	●	●						
4,4	8,0				●	●	●	●	●	●						
4,5	8,0					●	●	●	●	●	●	●	●	●		
4,6	8,0				●	●	●	●	●	●						
4,7	8,0				●	●	●	●	●	●						
4,8	8,0				●	●	●	●	●	●						
4,9	8,0				●	●	●	●	●	●						
5,0	10,0					●	●	●	●	●	●	●	●	●	●	●
5,1	10,0				●	●	●	●	●	●						
5,2	10,0				●	●	●	●	●	●						
5,3	10,0				●	●	●	●	●	●						
5,4	10,0				●	●	●	●	●	●						
5,5	10,0					●	●	●	●	●	●	●	●	●		
5,6	10,0				●	●	●	●	●	●						
5,7	10,0				●	●	●	●	●	●						
5,8	10,0				●	●	●	●	●	●						
5,9	10,0				●	●	●	●	●	●						
6,0	12,0	5,0	0,5			●	●	●	●	●	●	●	●	●	●	●
6,5	12,0					●	●	●	●	●	●	●	●	●		
7,0	12,0					●	●	●	●	●	●	●	●	●		
7,5	12,0					●	●	●	●	●	●	●	●	●		
8,0	12,0					●	●	●	●	●	●	●	●	●	●	●
8,5	14,0					●	●	●	●	●	●	●	●	●		
9,0	14,0					●	●	●	●	●	●	●	●	●		
10,0	16,0					●	●	●	●	●	●	●	●	●	●	●
10,5	16,0					●	●	●	●	●	●	●	●	●	●	●
11,0	16,0					●	●	●	●	●	●	●	●	●		
12,0	18,0	7,0	0,8	d1 +0,04		●	●	●	●	●	●	●	●	●	●	●
13,0	22,0					●	●	●	●	●	●	●	●	●	●	
14,0	22,0					●	●	●	●	●	●	●	●	●	●	●
16,0	22,0					●	●	●	●	●	●	●	●	●	●	●
18,0	24,0					●	●	●	●	●	●	●	●	●	●	●
20,0	26,0	8,0	1,0			●	●	●	●	●	●	●	●	●	●	●
25,0	32,0	10,0		d1		●	●	●	●	●	●	●	●	●	●	●





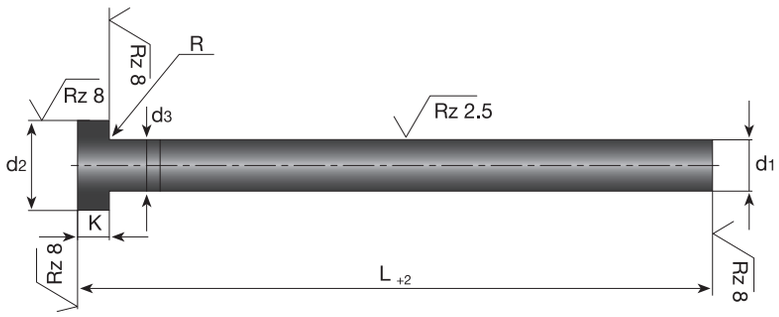
Nitrasyonlu Silindir Başlı İtici Pimler

NWM®

Malzeme
Sıcak İş Çeliği 1.2344

Sertlik Derecesi
Gövde : 60 ±2HRC
Kafa : 45 ±5HRC

Yüzey
Sertleştirilmiş, taşlanmış







İsteğinize göre özel ölçülerde tedarik edilmektedir.

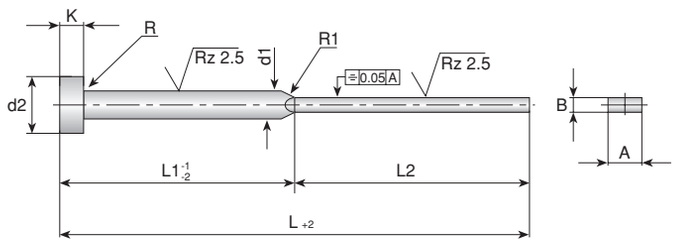
● Stoktaki Ürünler

d1 h6	d2 -0,2	K -0,05	R +0,2	d3	L										
					100	125	160	200	250	315	400	500	630	800	1000
1,0	2,5	1,2	0,2	d1 +0,03	●	●	●	●	●						
1,5	3,0	1,5			●	●	●	●	●						
2,0	4,0	2,0			●	●	●	●	●	●	●				
2,5	5,0		0,3		●	●	●	●	●	●	●				
3,0	6,0	3,0			●	●	●	●	●	●	●	●			
3,5	7,0				●	●	●	●	●	●	●	●			
4,0	8,0				●	●	●	●	●	●	●	●	●	●	
4,5	8,0				●	●	●	●	●	●	●	●			
5,0	10,0				●	●	●	●	●	●	●	●	●	●	●
5,5	10,0				●	●	●	●	●	●	●	●			
6,0	12,0	5,0	0,5		●	●	●	●	●	●	●	●	●	●	●
6,5	12,0				●	●	●	●	●	●	●	●			
7,0	12,0				●	●	●	●	●	●	●	●			
7,5	12,0				●	●	●	●	●	●	●	●			
8,0	14,0				●	●	●	●	●	●	●	●	●	●	●
8,5	14,0			d1 +0,04	●	●	●	●	●	●	●	●			
9,0	14,0				●	●	●	●	●	●	●	●			
10,0	16,0				●	●	●	●	●	●	●	●	●	●	●
10,5	16,0				●	●	●	●	●	●	●	●	●	●	●
11,0	16,0				●	●	●	●	●	●	●	●			
12,0	18,0	7,0	0,8		●	●	●	●	●	●	●	●	●	●	●
13,0	22,0				●	●	●	●	●	●	●	●	●	●	
14,0	22,0				●	●	●	●	●	●	●	●	●	●	●
16,0	22,0				●	●	●	●	●	●	●	●	●	●	●
18,0	24,0				●	●	●	●	●	●	●	●	●	●	●
20,0	26,0	8,0	1,0		●	●	●	●	●	●	●	●	●	●	●
25,0	32,0	10,0		d1 +0,1	●	●	●	●	●	●	●	●	●	●	●

Lama İtici Pim

Malzeme
Özel Alaşımlı Çelik 1.2516
Sertlik Derecesi
Gövde : 60 ±2HRC
Kafa : 45 ±5HRC
Yüzey
Sertleştirilmiş, taşlanmış

Lama itici pimler özel ürün olup, aşağıdaki tablo temsilen örnek olarak verilmiştir.
İstenilen her ebat ve ölçülerde temin edilebilir.
Sürekli stoklarımızda bulunamayabilir.
Lütfen termin süresi isteyiniz.



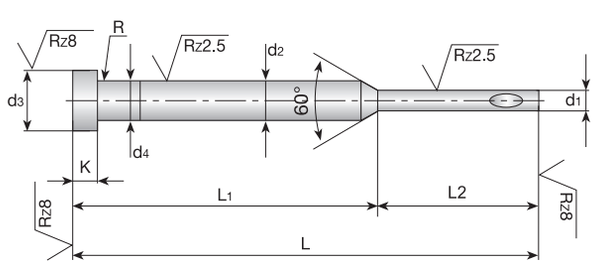


d1 g6	A -0,015	B -0,015	d2 -0,2	K -0,05	L1 / L2 / L	30 / 30 / 60	40 / 40 / 80	50 / 50 / 100	65 / 60 / 125	80 / 80 / 160	100 / 100 / 200	125 / 125 / 250	160 / 155 / 315	200 / 200 / 400
4	3,5	1	8	3										
4,2	3,8	1	8	3										
4,2	3,8	1,2	8	3										
6	5,5	1,2	12	5										
6	5,5	1,5	12	5										
6	5,5	2	12	5										
8	7,5	1,2	14	5										
8	7,5	1,5	14	5										
8	7,5	2	14	5										
10	9,5	1,5	16	5										
10	9,5	2	16	5										
12	11,5	2,5	18	7										
16	15,5	2	22	7										
16	15,5	2,5	22	7										

Kademeli İtici Pim

Malzeme
Özel Alaşımlı Çelik 1.2516
Sertlik Derecesi
Gövde : 60 ±2HRC
Kafa : 45 ±5HRC
Yüzey
Sertleştirilmiş, taşlanmış

Kademeli itici pimler özel ürün olup, aşağıdaki tablo temsilen örnek olarak verilmiştir.
İstenilen her ebat ve ölçülerde temin edilebilir.
Sürekli stoklarımızda bulunamayabilir.
Lütfen termin süresi isteyiniz.

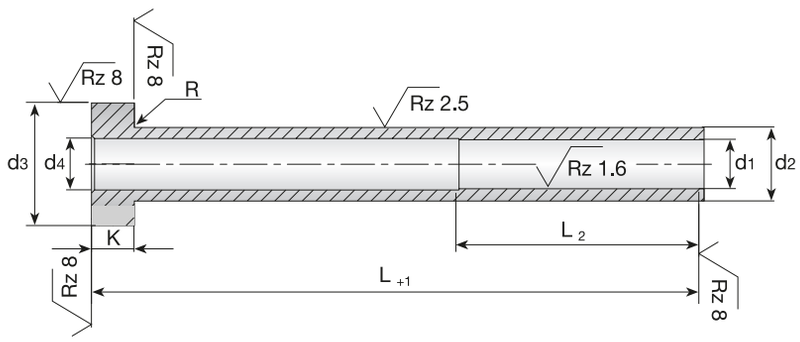




d1 g6 min.	d1 g6 max.	d2 g6	d3 -0,2	d4	K -0,05	R +0,2	L +2 0 : 100	125	160	200
							L1 -1 -2 : 50	50	75	75
0,8	**1,4**	2	4	d1 +0,03	2	0,3				
1,5	**2,4**	3	6		3	0,3				
2,5	**2,9**	3	6		3	0,3				

Plastik ve Metal Enjeksiyon Boru İtici Pimler

Malzeme
Özel Alaşımlı Çelik 1.2344
Sertlik Derecesi
Gövde : 60 ±2HRC
Kafa : 45 ±5HRC
Yüzey
Sertleştirilmiş, taşlanmış







İsteğinize göre özel ölçülerde tedarik edilmektedir.

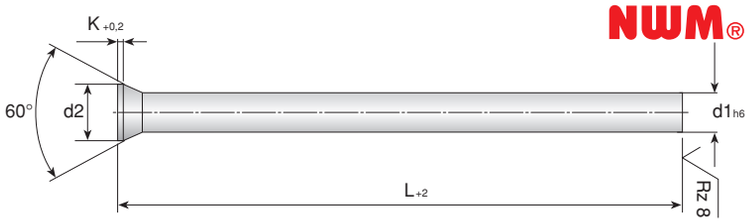
d1 H5	d2 g6	d4	d3 -0,2	K -0,05	R +0,2	L2 +2	L+2 75	100	125	150	160	175	200	225	250	275	300	500
2	4	2,4	8	3	0,3	35	•	•	•	•	•	•	•	•	•	•	•	
2,5	5	2,9	10				•	•	•	•	•	•	•	•	•	•	•	
3		3,4				45	•	•	•	•	•	•	•	•	•	•	•	•
3,5	6	3,9	12	5	0,5		•	•	•	•	•	•	•	•	•	•	•	•
	7																	
4	6	4,4					•	•	•	•	•	•	•	•	•	•	•	•
4,2	8	4,6	14				•	•	•	•	•	•	•	•	•	•	•	•
5		5,4																
6	10	6,4	16				•	•	•	•	•	•	•	•	•	•	•	•
8	12	8,4	20	7	0,7		•	•	•	•	•	•	•	•	•	•	•	•
10	14	10,4	22				•	•	•	•	•	•	•	•	•	•	•	•
12	16	12,4					•	•	•	•	•	•	•	•	•	•	•	•

Havşa Başlı Zımba / HSS

Malzeme
Yüksek Hız Çeliği / HSS1.3343
Sertlik Derecesi
Gövde : 60 ±62HRC
Kafa : 45 ±5HRC
Yüzey
Sertleştirilmiş, taşlanmış



İsteğinize göre TİN kaplamalı
ve özel ölçülerde tedarik edilmektedir.



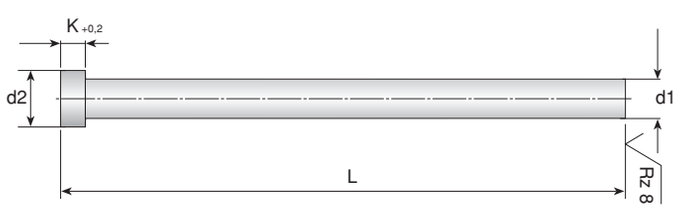
d1 (h6)	d2	K +0.2	L+2				
			71	80	100	130	160
0.5	0.9	0.2	●	●	●		
0.6	1.1	0.2	●	●	●		
0.7	1.3	0.2	●	●	●		
0.8	1.4	0.4	●	●	●		
0.9	1.6	0.4	●	●	●		
1.0-1.1	1.8	0.5	●	●	●		
1.2-1.3	2.0	0.5	●	●	●		
1.4-1.5	2.2	0.5	●	●	●		
1.6-1.7	2.5	0.5	●	●	●		
1.8-1.9	2.8	0.5	●	●	●		
2.0	3.0	0.5	●	●	●	●	●
2.1-2.2	3.2	0.5	●	●	●	●	●
2.3-2.5	3.5	0.5	●	●	●	●	●
2.6-2.9	4.0	0.5	●	●	●	●	●
3.0-3.4	4.5	0.5	●	●	●	●	●
3.5-3.9	5.0	0.5	●	●	●	●	●
4.0-4.4	5.5	0.5	●	●	●	●	
4.5-4.9	6.0	0.5	●	●	●	●	●
5.0-5.4	6.5	0.5	●	●	●	●	●
5.5-5.9	7.0	0.5	●	●	●	●	●
6.0-6.4	8.0	0.5	●	●	●	●	●
6.5-7.4	9.0	1.0	●	●	●	●	●
7.5-8.4	10.0	1.0	●	●	●	●	●
8.5-9.4	11.0	1.0	●	●	●	●	
9.5-10.0	12.0	1.0	●	●	●	●	●
10.5-11.0	13.0	1.0	●	●	●	●	●
11.5-12.0	14.0	1.0	●	●	●	●	●
12.5-13.0	15.0	1.0	●	●	●	●	●
13.5-14.0	16.0	1.5	●	●	●	●	●
14.5-15.0	17.0	1.5	●	●	●	●	●
16.0	18.0	1.5	●	●	●	●	●
17.0	19.0	1.5	●	●	●	●	●
18.0	20.0	1.5	●	●	●	●	●
20.0	22.0	1.5	●	●	●	●	●

● Stoktaki Ürünler

Silindir Başlı Zımba / HSS

Malzeme
Yüksek Hız Çeliği / HSS1.3343
Sertlik Derecesi
Gövde : 60 ±62HRC
Kafa : 45 ±5HRC
Yüzey
Sertleştirilmiş, taşlanmış

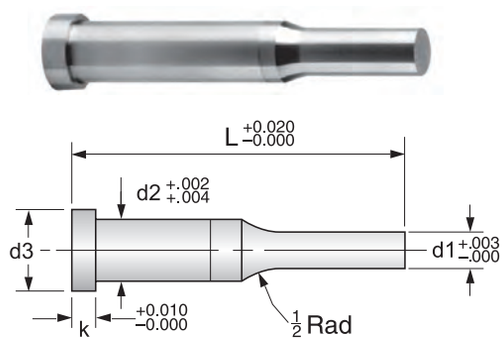




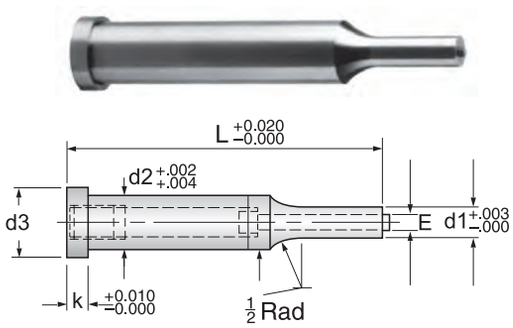
d1 (m5)	d2	K +0.2	L			
			71	80	100	125
3	5	3	●	●	●	
4	6		●	●	●	
5	8	5	●	●	●	
6	9		●	●	●	
8	11		●	●	●	
10	13		●	●	●	
13	16		●	●	●	
16	19		●	●	●	
20	23		●	●	●	●
25	28		●	●	●	

● Stoktaki Ürünler

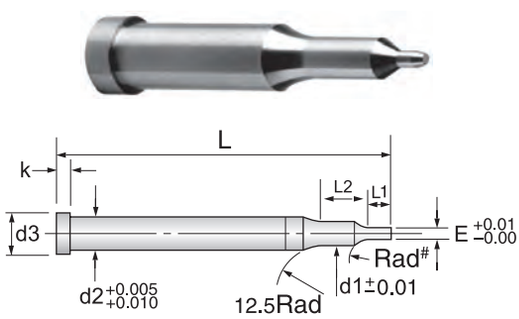
Silindir Başlı Kademeli Zımba



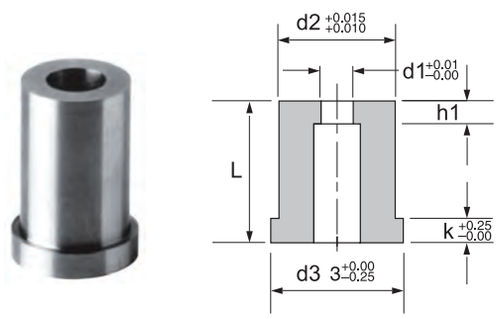
Silindir Başlı Kademeli Fırlatıcı Zımba



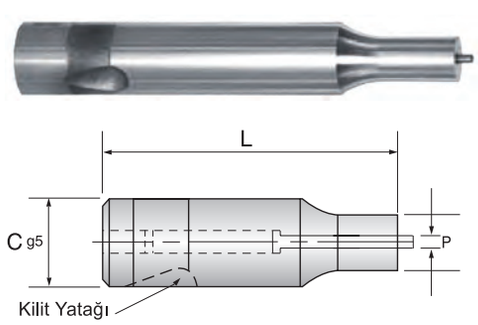
Silindir Başlı Çift Kademeli Zımba



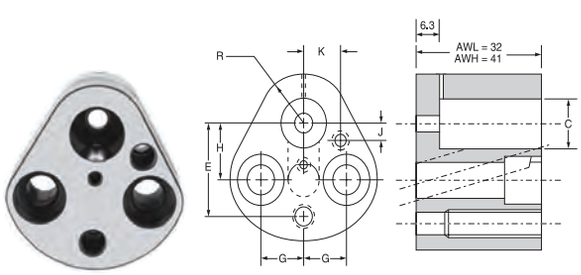
Zımba Kovanı



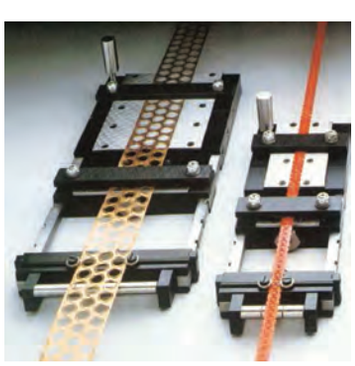
Bilye Kilitlemeli Kademeli Zımba



Kilitli Zımba Kovanı



Pres Kalıp Sürücüleri



Model	Max Bant Eni (mm)	Hatve (mm)	Max Bant Kalınlığı (mm)
A 50	50	50	1.9
A 100	50	100	1.8
A 150	50	150	1.5
B 50	75	50	1.8
B 100	75	100	1.7
B 150	75	150	1.6
C 50	100	50	1.7
C 100	100	100	1.5
C 150	100	150	1.4

Sipariş üzerine özel ölçülü sürücüler imal edilmektedir.

Güçlü ön ve arka hava yastıkları 0.02 mm'e varan hassasiyet ile çalışabilme olanağı sağlar. Doğrudan kalıp üzerine monte edilir. Üst kalıbın dikey hareketi sürücüye komut verir. Darbelere ve sürtünmelere maruz bütün yüzeyler sertleştirilmiş ve sert krom kaplanmıştır. Hatve ayarı çok basittir. Sürülecek bandın mutlaka düzlemselliğine dikkat ediniz.

Önemli Uyarı

Sürücünün sağlıklı çalışabilmesi için mutlaka şartlandırıcı kullanınız.

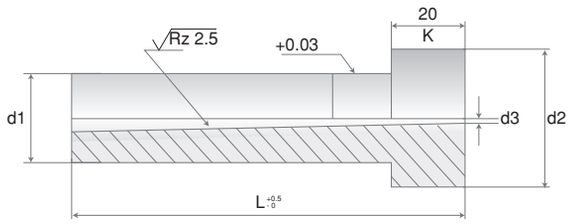


Plastik Kalıp Yolluk Memeleri

Malzeme
Özel Alaşımlı Çelik
Yüzey
Sertleştirilmiş, taşlanmış



İsteğinize göre özel ölçülerde tedarik edilmektedir.



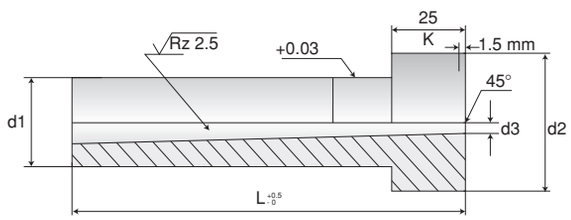
d1	d2	K	d3	50	65	75	85	95	105	115	125	135	150	200
12	28	20	4.3 3.3	●	●	●	●	●	●	●	●	●	●	●
14				●	●	●	●	●	●	●	●	●	●	●
16				●	●	●	●	●	●	●	●	●	●	●
18				●	●	●	●	●	●	●	●	●	●	●

Metal Kalıp Yolluk Memeleri

Malzeme
Sıcak İş Çeliği 1.2344
Yüzey
Sertleştirilmiş, taşlanmış



İsteğinize göre özel ölçülerde tedarik edilmektedir.



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

Kalıp Yolluk Flanşı

Malzeme
Sıcak İş Çeliği 1.2344
Yüzey
Sertleştirilmiş, taşlanmış

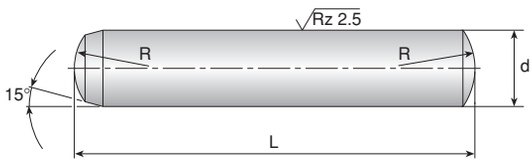


İsteğe göre tedarik edilmektedir.

Flanş Çapı	80	100	125	150	160	200
Kalınlık	25	25	25	25	25	25
Delik Çapı	28	28	28	28	28	28

Düz Tespit Pimi

Malzeme
16 Mn Cr5 Takım Çeliği
Sertlik Derecesi
60±2 HRC
Tolerans
h6 - m6



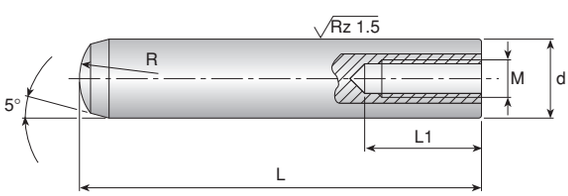


d	L																								
	10	12	14	16	18	20	22	24	28	30	32	36	40	45	50	55	60	70	80	90	100	120	130	140	150	160
3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●							
5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
10			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
12				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
14													●	●	●	●	●	●	●	●	●	●	●	●	●	
16													●	●	●	●	●	●	●	●	●	●	●	●	●	
20													●	●	●	●	●	●	●	●	●	●	●	●	●	●

● Stoktaki Ürünler ○ 3 iş günü içerisinde temin edilir.

Çektirmeli Tespit Pimi

Malzeme
16 Mn Cr5 Takım Çeliği
Sertlik Derecesi
60±2 HRC
Tolerans
h6 - m6



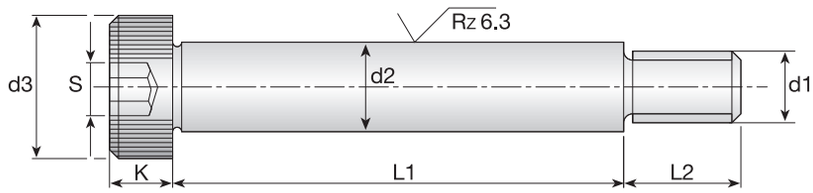


d	M	L1	L																	
			16	20	24	30	36	40	45	50	55	60	70	80	90	100	120	130	140	150	160
6	4	10	●	●	●	●	●	●	●	●	●	●									
8	5	12	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
10	6	16	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
12	6	16	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
14	8	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
16	8	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
20	10	25	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● Stoktaki Ürünler ○ 3 iş günü içerisinde temin edilir.

Yay Ayar Civatası

Malzeme
Özel Alaşımlı Çelik
Yüzey
Sertleştirilmiş, taşlanmış



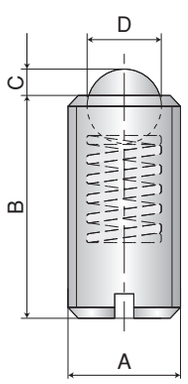


d1	d2	d3	K	S	L2	L1															
						10	12	16	20	25	30	35	40	45	50	55	60	65	70	80	90	100	120
M5	6	10	5	3	9.5	●	●	●	●	●	●	●	●	●	●								
M6	8	13	6	4	11	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
M8	10	16	7.5	5	13			●	●	●	●	●	●	●	●	●	●	●	●	●	●		
M10	12	18	9	6	16			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
M12	16	24	11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

Bilyalı Setiskur

Malzeme
Özel Alaşımlı Çelik

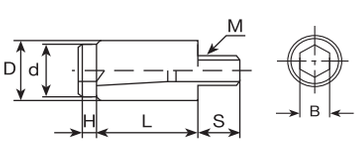




A	B	C	D	N İlk Basınç (newton)	N1 Nihai Basınç (newton)
M4	9	0.8	2.5	6	12
M5	12	0.9	3	7	13
M6	14	1.0	3.5	9	15
M8	16	1.5	5	20	35
M10	19	2.0	6	25	45
M12	22	2.5	8	35	60
M16	24	3.5	10	65	110

Plastik Çektirme

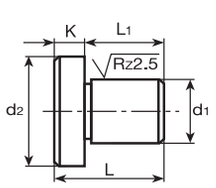




D	d	M	B	H	L	S
10	11.5	M6	5	4.5	18	8
12	11.5	M6	5	4.5	18	8
13	11.5	M6	5	4.5	20	8
16	14	M8	6	4.5	25	10
20	16	M10	6	5.5	30	10

Plaka Dayaması





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

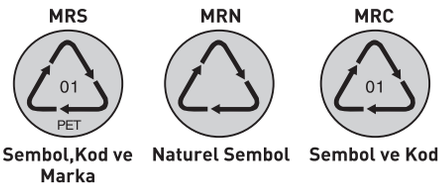
Geri Dönüşüm Mühreleri

Yeniden kullanımı mümkün olan plastik ürünlerin tanımlanmasında kullanılır. Mühürler hammaddenin kolayca tanınmasını sağlar.



D (mm)	L
6	8
8	8
10	10
12	10
16	12
20	14

Sembol	Madde Cinsi
PET	Tereflete polietilen
PE - HD	Yükselen yoğunluklu polietilen
PVC	Vinil poliklorid
PE - HD	Alçak yoğunluklu polietilen
PP	Poli propilen
PS	Polyester
ABS	Termopolimer akrilonitril budatadin stren
	Gıda
PA	Naylon
POM	Poli Asetat
POM	Polifenil Oksit
PC	Polikarbonat

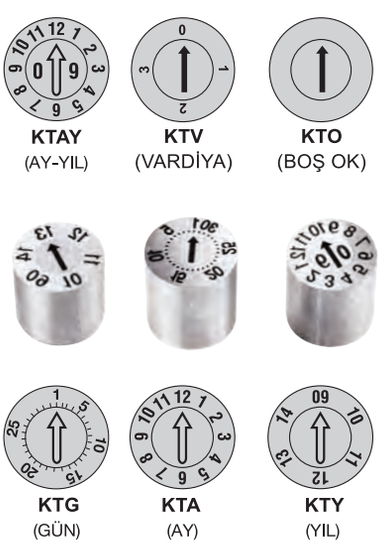


Sembol,Kod ve Marka | Naturel Sembol | Sembol ve Kod



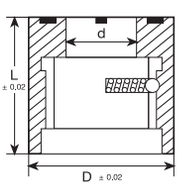
Boş | Sembol ve Kod | Gıda

Kalıp Takvimleri



KTAY (AY-YIL) | KTV (VARDİYA) | KTO (BOŞ OK)

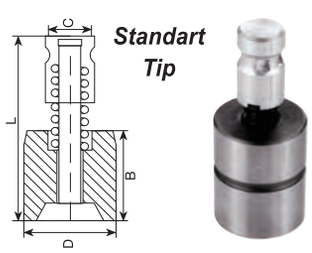
KTG (GÜN) | KTA (AY) | KTY (YIL)



D	L	d	Kalıp Takvimi OK	Kalıp Takvimi Gün	Kalıp Takvimi Ay	Kalıp Takvimi Yıl	Kalıp Takvimi Ay - Yıl
4	6	2.2					
5	6	2.5					
6	8	3			8 - 10		
8	8	4					
10	10	4.7			10-12		
12	10	6			12-14		
16	12	7					
20	14	10					

L / Boylar değişiklik gösterebilir. Sipariş esnasında sorunuz.

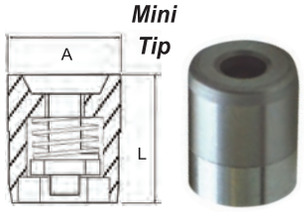
Havalı Valfler



Standart Tip

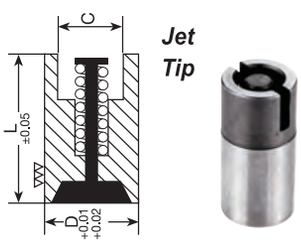
KOD	D	B	C	L
HİV 8	8	10	6	27
HİV 10	10	11	6	29
HİV 12	12	11	8	29
HİV 16	16	20	8	42
HİV 18	18	20	12	42
HİV 20	20	20	12	46
HİV 25	25	20	12	62

Mini Tip



KOD	A	L
HİM 6	6	12
HİM 8	8	12
HİM 10	10	12
HİM 12	12	12
HİM 16	16	20
HİM 20	20	20

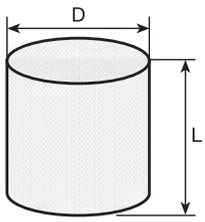
Jet Tip



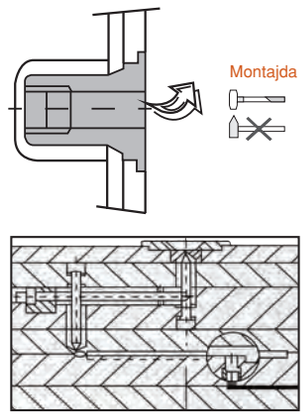
KOD	D	C	L
HİJ 6	6	4	12
HİJ 8	8	4.5	15
HİJ 10	10	6	20
HİJ 12	12	8	25
HİJ 16	16	10	30
HİJ 18	18	12	30
HİJ 20	20	12	30
HİJ 25	25	15	30

Gaz Atma Filtresi



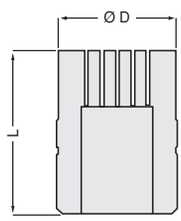


KOD	D	L
PGF 2	2mm	5,0
PGF 3	3mm	10,0
PGF 4	4mm	10,0
PGF 5	5mm	10,0
PGF 6	6mm	10,0
PGF 8	8mm	10,0
PGF 10	10mm	10,0
PGF 12	12mm	12,0
PGF 15	15mm	10,0
PGF 16	16mm	10,0

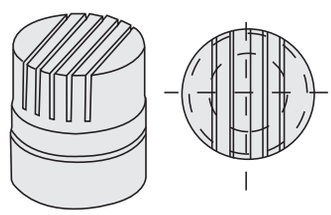


Gaz Atma Filtresi (Kanallı)



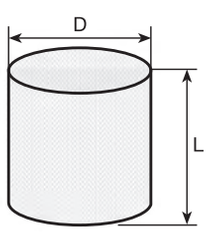


KOD	D	L
KGF 6	6mm	10,0
KGF 8	8mm	10,0
KGF 10	10mm	10,0
KGF 12	12mm	10,5

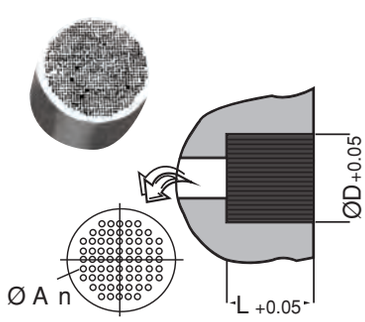


Gaz Atma Filtresi (Sinterli)



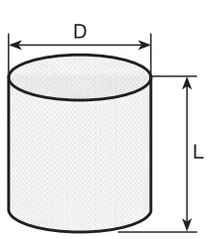


KOD	D	L
SGF 3	3mm	10,0
SGF 4	4mm	10,0
SGF 5	5mm	10,0
SGF 6	6mm	10,0
SGF 8	8mm	10,0
SGF 10	10mm	10,0
SGF 12	12mm	12,0
SGF 15	15mm	10,0



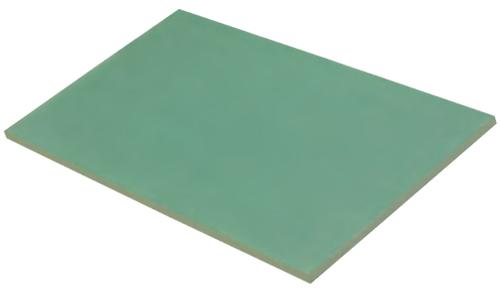
Gaz Atma Filtresi (Çelik Sinterli)





KOD	D	L
ÇSGF 4	4mm	10,0
ÇSGF 6	6mm	10,0
ÇSGF 8	8mm	10,0
ÇSGF 10	10mm	12,0
ÇSGF 12	12mm	12,0
ÇSGF 16	16mm	14,0
ÇSGF 20	20mm	15,0
ÇSGF 28	28mm	15,0

Isı Yalıtım Plakası





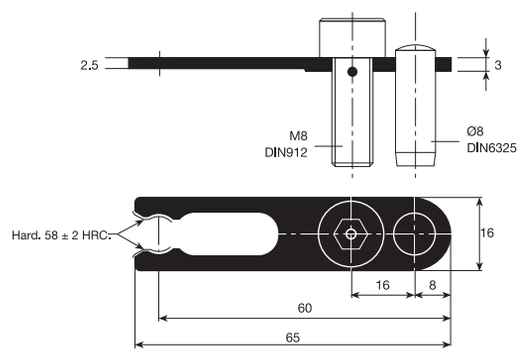
Isı Yalıtım Plakaları Kullanım Şekilleri

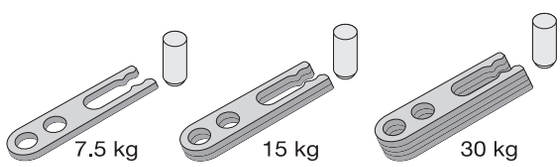
- Plakalar astbest içermez, sağlık sertifikası mevcuttur.
- Darbelerden sudan sürtünmelerden etkilenmez, elektriği iletmez
- Maksimum cm^2 1800 ton basınca dayanıklıdır.
- Isı Yalıtım Plakaları kalıpların görünüm standartını yükseltir.
- Tüm ölçüler isteğe bağlı temin edilir.
- 6mm 8mm 10mm kalınlık ölçüleri mevcuttur.

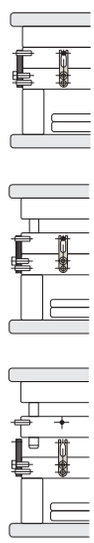
İstenilen ölçülerde sipariş üzerine temin edilir.

Modüler Tutucu









- Kalıbın kademeli açılımını sağlar
- Tutucu eklenerek direnç katılabilir.
- Her parça direnci 7,5 kg dır.

Çelik Rakam - Çelik Harf

Siparişinizde düz veya ters olarak bildiriniz.

Ölçü (mm)
1 - 1.5
2 - 2.5
3
4
5
6
8
10
12





Kalıp Sayaçları

Dijital
Kalıp Sayacı



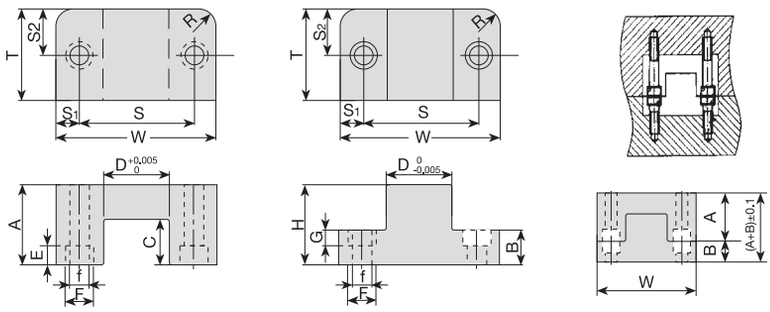
5 Haneli





Küp Blok Kitleme (LK)

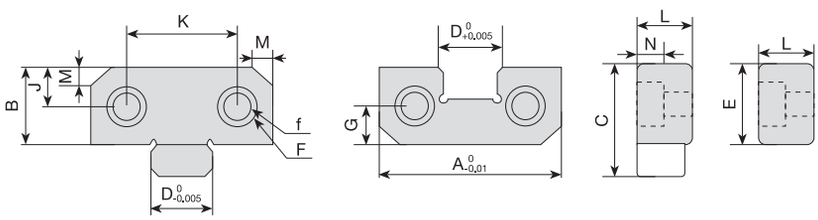




Kod	W -0.01	T ±0.25	A ±0.05	B ±0.05	C	D	E	M	F	f	G	H ±0.05	R ±0.25	S ±0.25	S_1 ±0.25	S_2 ±0.25
LK 15	38.1	25.4	22.17	9.47	13.13	12.70	7	M5	10.5	6	7	22.1	7.0	25.4	6.35	12.7
LK 25	63.5	38.1	34.87	15.82	19.48	25.40	8	M6	12.0	7.2	8	34.8	8.5	44.45	9.53	19.05
LK 35	88.9	50.8	44.4	19.0	25.70	36.58	11	M8	15.5	10.5	11	44.2	9.5	63.5	12.7	25.4

Kare Kitleme Blok (PL)

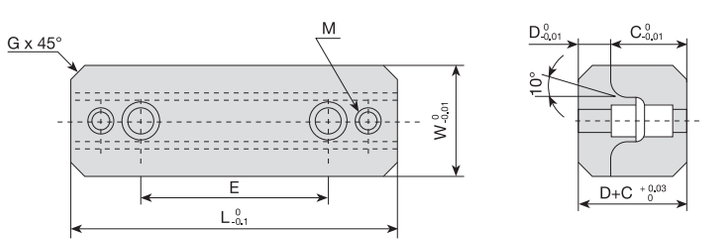




Kod	A	B	C	D	E	F	f	G	J	K	L	M	N
PL 38	38	22	30	12	17	10.5	6.5	7	11	22	13	5	8
PL 50	50	21.5	30	17	21.5	10.5	6.5	11	11	34	16	5	8
PL 75	75	36	50	25	36	16.5	10.5	18	18	50	19	8	12
PL 100	100	45	65	35	45	16.5	10.5	22	22	70	19	10	12
PL 125	125	45	65	45	45	16.5	10.5	22	22	84	25	10	12

Uzun Kare Kitleme (KY)

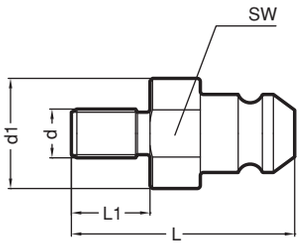


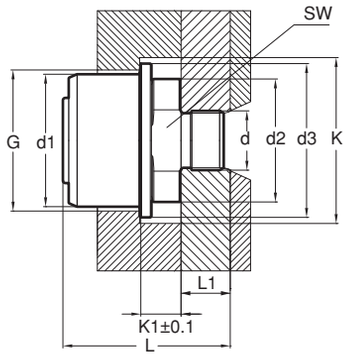


Kod	L	W	C	D	E	G	M
KY 50	50	25	17.5	8	36	5	M5
KY 100	100	30	22	10	60	5	M6
KY 150	150	40	25	13	100	5	M6

Otomatik İtici Plaka Bağlantı Sistemi



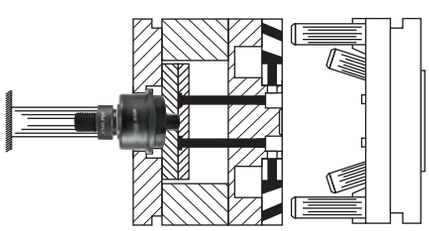


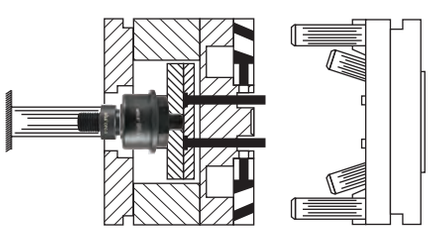


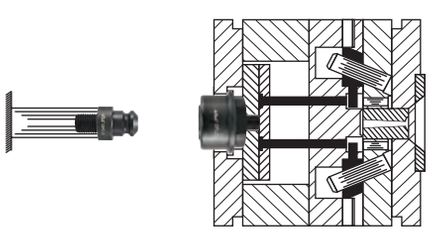
Sipariş No	d	G	d1	d2	d3	K	K1	L1	L	SW	Çekme Kuvveti kg
OPC-01 EG 12	M12 x 1.75	34	32	32	39	44	10	15	42.5	30	1500
OPC-01 EG 16	M16 x 1.5	34	32	32	39	44	10	15	42.5	30	1500

Sipariş No	d	G	d	d1	d2	K	K1	L1	L	SW	Çekme Kuvveti kg
OPC-02 EG 16-1	M16 x 1.5	40	38	38	48	53	13	15	52	32	2400
OPC-02 EG 16-2	M16 x 2.0	40	38	38	48	53	13	15	52	32	2400

Sipariş No	d	G	d1	d2	d3	K	K1	L1	L	SW	Çekme Kuvveti kg
OPC-03 EG 16	M16 x 1.5	58	56	52	65	70	17	18	68	46	3200
OPC-03 EG 18	M18 x 1.5	58	56	52	65	70	17	18	68	46	3200
OPC-03 EG 20	M20 x 1.5	58	56	52	65	70	17	18	68	46	3200
OPC-03 EG 24	M24 x 1.5	58	56	52	65	70	17	18	68	46	3200
OPC-03 EG 27	M27 x 1.5	58	56	52	65	70	17	18	68	46	3200
OPC-03 EG 30	M30 x 1.5	58	56	52	65	70	17	18	68	46	3200







Sipariş No	d	SW	d1	L1	L	Çekme Kuvveti kg
OPC-01 EU 10	M10 x 1.5	19	22.8	20	45.5	1500
OPC-01 EU 12	M12 x 1.75	19	22.8	20	45.5	1500
OPC-01 EU 14	M14 x 2.0	19	22.8	20	45.5	1500
OPC-01 EU 16	M16 x 2.0	19	22.8	20	45.5	1500

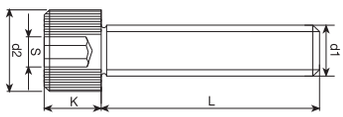
Sipariş No	d	SW	d1	L1	L	Çekme Kuvveti kg
OPC-02 EU 10	M10 x 1.5	22	25.8	20	55	2400
OPC-02 EU 12	M12 x 1.75	22	25.8	20	55	2400
OPC-02 EU 14	M14 x 2.0	22	25.8	20	55	2400
OPC-02 EU 16	M16 x 2.0	22	25.8	20	55	2400

Sipariş No	d	SW	d1	L1	L	Çekme Kuvveti kg
OPC-03 EU 16	M16 x 2.0	32	35	25	68	3200
OPC-03 EU 18	M18 x 2.5	32	35	25	68	3200
OPC-03 EU 20	M20 x 2.5	32	35	25	68	3200
OPC-03 EU 24	M24 x 3.0	32	35	25	68	3200
OPC-03 EU 27	M27 x 3.0	32	35	25	68	3200
OPC-03 EU 30	M30 x 3.5	32	35	25	68	3200

İmbus Civata

8,8 - 12,9 Kalite

12,9 Kalite ürünler stoktur.
8,8 Kalite ürünler bir gün terminlidir.





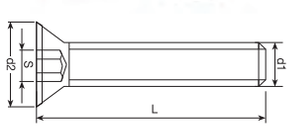
DIN 912

d1	d2	K	S	L																																					
				10	12	15	20	25	30	35	40	45	50	55	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	220	240	260	280	300	320	340	360	380	400
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					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
M18	27	18	14							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●										
M20	30	20	17								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
M24	36	24	19										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●
M30	45	30	22												●	●	●	●	●		●		●			●			●	●	●	●	●	●	●	●	●	●	

Havşa Baş İmbus Civata

Boy	M3	M4	M5	M6	M8	M10	M12	M16	M20
10	●	●	●	●	●	●	●		
15	●	●	●	●	●	●	●		
20	●	●	●	●	●	●	●		
25	●	●	●	●	●	●	●		
30	●	●	●	●	●	●	●	●	
35		●	●	●	●	●	●	●	
40		●	●	●	●	●	●	●	●
60		●	●	●	●	●	●	●	●

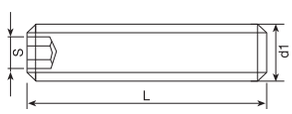




Setiskur

Boy	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20
10	●	●	●	●	●	●	●	●		
15	●	●	●	●	●	●	●	●	●	
20	●	●	●	●	●	●	●	●	●	●
25	●	●	●	●	●	●	●	●	●	●
30	●	●	●	●	●	●	●	●	●	●
35		●	●	●	●	●	●	●	●	●
40		●	●	●	●	●	●	●	●	●
60				●	●	●	●	●	●	●





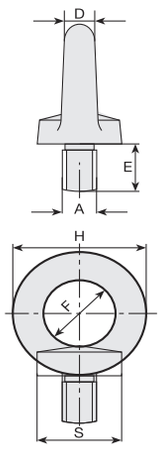
Somun - Pul

Boy	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M24	M30
	●	●	●	●	●	●	●	●	●	●	●	●	●



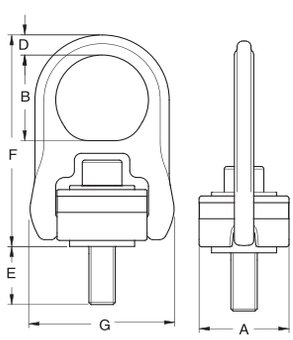
Mapa





A	D	E	F	H	S	g	Kaldırma Kap.(kg)
M10	10	18	25	45	25	110	230
M12	12	22	30	54	30	195	340
M14	12	22	30	54	30	205	460
M16	14	28	35	63	35	325	700
M18	14	28	35	63	35	335	850
M20	16	30	40	72	40	505	1200
M24	20	38	50	90	50	1020	1800
M30	24	45	60	108	65	1850	3600
M36	28	55	70	126	75	2700	5100
M42	32	65	80	135	85	4030	7000
M56	42	78	100	184	110	8800	11500
M64	48	90	110	206	120	12400	16500

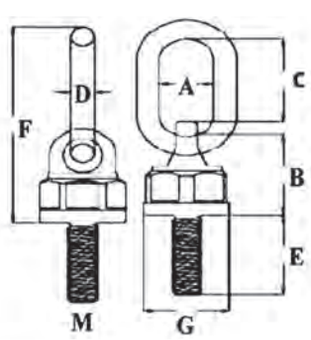




Model	Kaldırma Kapasitesi	Civata Boyutu	Ölçüler (mm)					
			E	A	B	D	F	G
8-203-004	500 Kg	M 8 x 1.25 x 50	17.0	40	41	9	102	65
8-203-005	550 Kg	M10 x 1.50 x 45	11.0	40	41	9	102	65
8-203-005L	550 Kg	M10 x 1.50 x 60	26.0	40	41	9	102	65
8-203-010	1300 Kg	M12 x 1.75 x 60	15.0	65	64	15	158	105
8-203-010L	1300 Kg	M12 x 1.75 x 75	30.0	65	64	15	158	105
8-203-019	2400 Kg	M16 x 2.00 x 65	20.0	65	64	15	158	105
8-203-019L	2400 Kg	M16 x 2.00 x 80	35.0	65	64	15	158	105
8-203-021	2700 Kg	M20 x 2.50 x 70	25.0	65	64	15	158	105
8-203-021L	2700 Kg	M20 x 2.50 x 90	45.0	65	64	15	158	105
8-203-030	3750 Kg	M20 x 2.50 x 80	25.0	85	79	19	204	134
8-203-030L	3750 Kg	M20 x 2.50 x 100	45.0	85	79	19	204	134
8-203-042	5250 Kg	M24 x 3.00 x 80	26.0	85	79	19	204	134
8-203-042L	5250 Kg	M24 x 3.00 x 110	56.0	85	79	19	204	134
8-203-070	8750 Kg	M30 x 3.50 x 140	81.0	100	100	25	241	160
8-203-110	13750 Kg	M36 x 4.00 x 160	76.0	120	111	30	286	194
8-203-125	15600 Kg	M42 x 4.50 x 180	95.0	120	111	30	286	220
8-203-135	16900 Kg	M48 x 5.00 x 190	105.0	120	111	30	286	220
8-203-155	19400 Kg	M56 x 5.50 x 180	94.0	138	109	34	308	241
8-203-223	27900 Kg	M64 x 6.00 x 190	98.0	138	100	38	312	241
8-203-315	39400 Kg	M72 x 6.00 x 240	131.0	166	127	45	377	300

Fırdöndülü Mapa





Çap	WLL (kg)	Ana Teknik Parametreler (mm)							Ağırlık
		A	B	C	D	E	F	G	
M10	500	28.6	39.0	31.8	7.90	19.0	85.8	36.0	0.27
M12	1050	35.0	67.0	58.0	12.7	19.1	149.8	60.0	1.20
M16	1200	35.0	67.0	58.0	12.7	31.8	149.8	60.0	1.20
M20	1900	40.0	78.3	67.0	19.1	38.1	178.7	70.0	2.21
M24	2150	40.0	78.3	67.0	19.1	38.1	178.7	70.0	2.21
M30	5000	51.6	93.1	95.0	22.2	50.0	227.4	80.0	3.86
36	8000	51.6	93.1	95.0	22.2	54.0	227.4	80.0	3.86
M42	10000	65.0	103.7	118	25.0	63.0	265.8	93.0	6.08

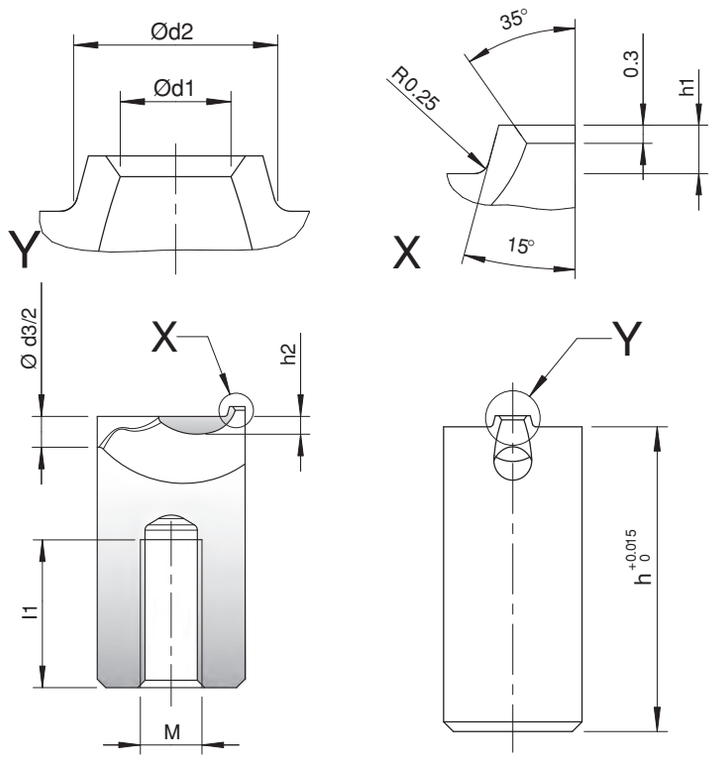
Polyester Sapanlar

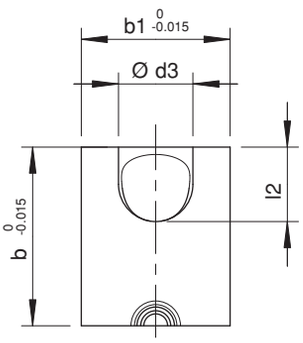


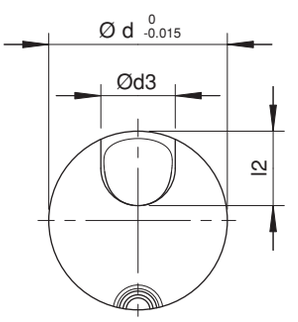
Sapan Boyu	W Bant Genişliği (mm)	Taşıma Kapasitesi							
		1 ton	2 ton	3 ton	4 ton	5 ton	6 ton	8 ton	10 ton
1 metre	25	•	•						
2 metre	50	•	•	•	•				
3 metre	75	•	•	•	•	•	•	•	•
4 metre	100	•	•	•	•	•	•	•	•
5 metre	125	•	•	•	•	•	•	•	•
6 metre	150	•	•	•	•	•	•	•	•
8 metre	200		•	•	•	•	•	•	•
10 metre	250			•	•	•	•	•	•

Yuvarlak ve Kare Tip Muz Yolluk Sistemi



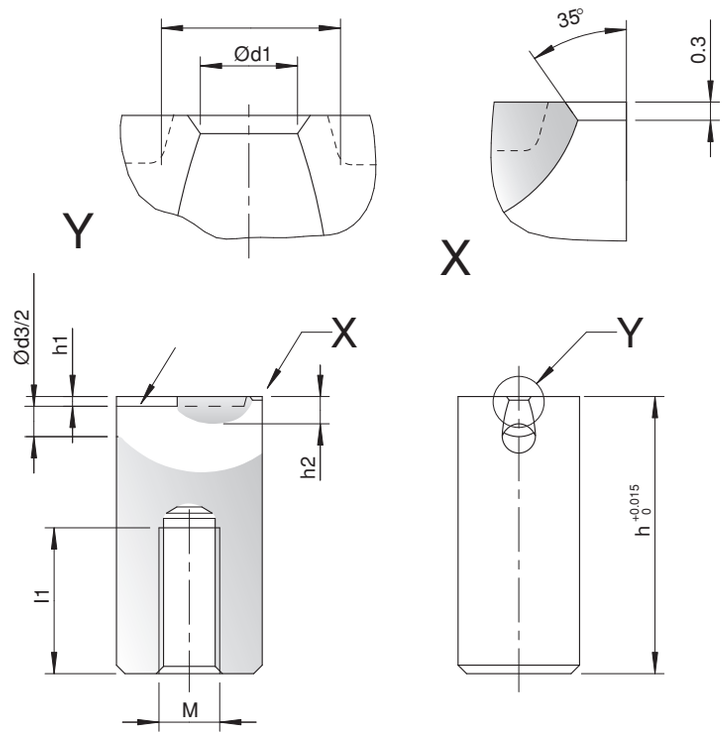


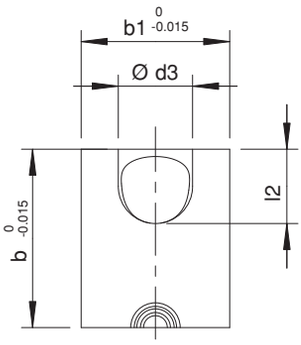
HGS	KOD	b	b1	d1	d2	d3	h	h1	h2	l1	l2	M
	**HGS8 / S2**	8	6	0.6	1.9	3	22.0	0.6	1.1	13	3.25	4
				0.8	2.1							
	HGS10 / S2	10	8	0.8	2.2	4	22.0	0.8	1.2	12	4	5
				1.2	2.6							
				1.6	3.0							
	HGS12 / S2	12	10	1.2	2.6	5	22.0	0.8	1.40	11	5	5
				1.6	3.0							
				2.0	3.4							
	HGS14 / S2	14	12	1.6	3.0	6	22.0	0.8	1.6	10	6	6
				2.0	3.4							
				2.4	3.8							
				2.8	4.2							

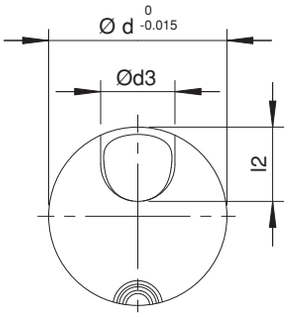
HGR	KOD	d	d1	d2	d3	h	h1	h2	l1	l2	M
	**HGR6 / S2**	6	0.6	1.9	2.5	17.0	0.6	0.8	10	2.5	4
	HGR8 / S2	8	0.6	1.9	3	22.0	0.6	1.1	13	3.25	4
			0.8	2.1							
	HGR10 / S2	10	0.8	2.2	4	22.0	0.8	1.2	12	4	5
			1.2	2.6							
			1.6	3.0							
	HGR12 / S2	12	1.2	2.6	5	22.0	0.8	1.4	11	5	5
			1.6	3.0							
			2.0	3.4							
	HGR14 / S2	14	1.6	3.0	6	22.0	0.8	1.6	10	6	6
			2.0	3.4							
			2.4	3.8							
			2.8	4.2							

Yuvarlak ve Kare Tip Muz Yolluk Sistemi





HGS	KOD	b	b1	d1	d3	h	h1	h2	l1	l2	M
	**HGS8 / S1**	8	6	0.6	3	22.6	0.6	1.7	13	3.25	4
				0.8							
	HGS10 / S1	10	8	0.8	4	22.8	0.8	2.0	12	4	5
				1.2							
				1.6							
	HGS12 / S1	12	10	1.2	5	22.8	0.8	2.2	11	5	5
				1.6							
				2.0							
	HGS14 / S1	14	12	1.6	6	22.8	0.8	2.4	10	6	6
				2.0							
				2.4							
				2.8							

HGR	KOD	d	d1	d3	h	h1	h2	l1	l2	M
	**HGR6 / S1**	6	0.6	2.5	17.6	0.6	1.4	10	2.5	4
	HGR8 / S1	8	0.6	3	22.6	0.6	1.7	13	3.25	4
			0.8							
	HGR10 / S1	10	0.8	4	22.8	0.8	2.0	12	4	5
			1.2							
			1.6							
	HGR12 / S1	12	1.2	5	22.8	0.8	2.2	11	5	5
			1.6							
			2.0							
	HGR14 / S1	14	1.6	6	22.8	0.8	2.4	10	6	6
			2.0							
			2.4							
			2.8							

Çift Plakalı İtici Sistem

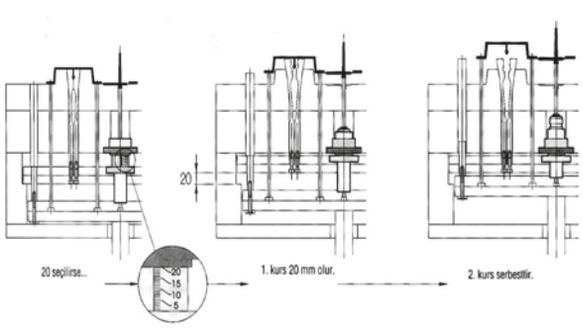
Çift Plakalı İtici Sistem: Bu ünite önceden belirlenen iki adımlı haraketi gerçekleştirir. Esnek iç maçalı kalıplarda kademeli itmeyi elde etmek için çok kullanışlıdır.

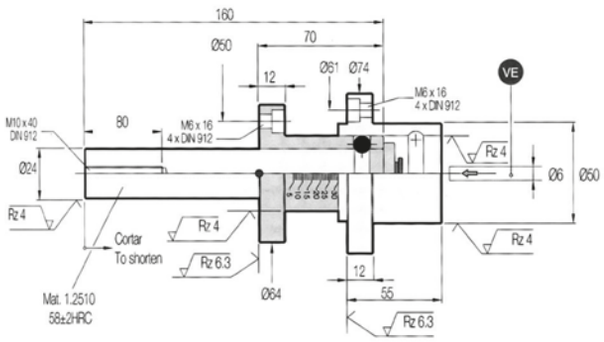
Önemli Montaj ölçülerini belirlemek için ilk kursu seçmede 0 - 30 mm cetvelini kullanınız.

Malzeme : 1.7264 Sertleştirilmiş 52 ± 2HRC



Kod : DE 243648





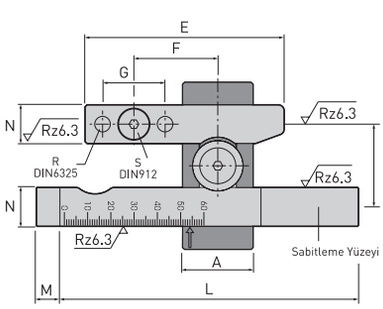
Kademeli Açma Ünitesi

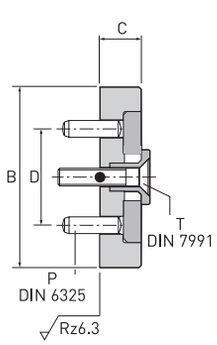
Malzeme : 0503 Sertleştirilmiş 55±3HRC (Sürtünen Bölge)

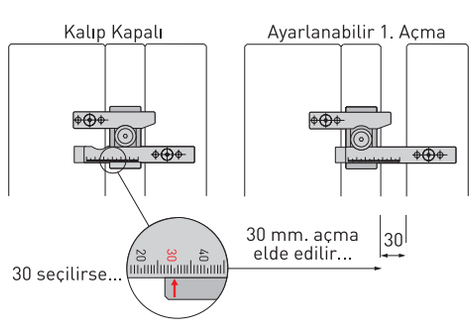
Kademeli Açma Ünitesi : İki adımlı kalıplar için tasarlanmıştır.
Cetvel ile ilk açma değeri belirlenebilir.
Plakaların açılma önceliği ünitenin montaj yönüne bağlıdır.

Önemli : İstenen kursu seçtikten sonra cetveli ölçeksiz kısmından sabitleyiniz.

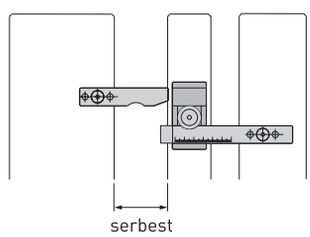








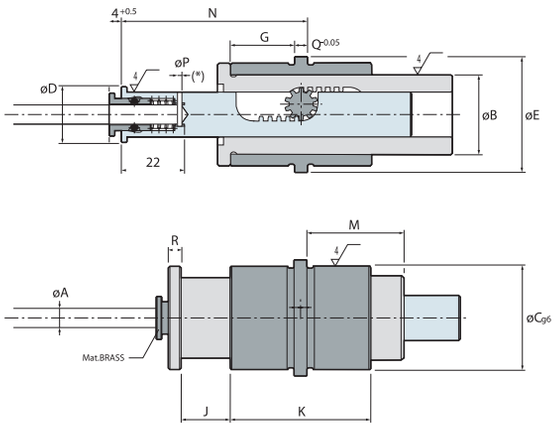
KOD	A	B	C	D	E	F	G	H	L	M	N	P (x2)	R (x4)	S (x2)	T	Esc. Sca
GS.226616	22	66	16	38	75	30	25	32	105	10	15	6x20	6x30	M6x30	M6x35	40
GS. 368619	36	86	19	46	102	43	32	42,7	153	12	20	8x24	8x36	M8x35	M8x40	60
GS. 421024	42	106	24	56	124	51	40	50,2	190	15	24,5	10x30	10x40	M10x40	M10x45	80



İtici Hızlandırıcı

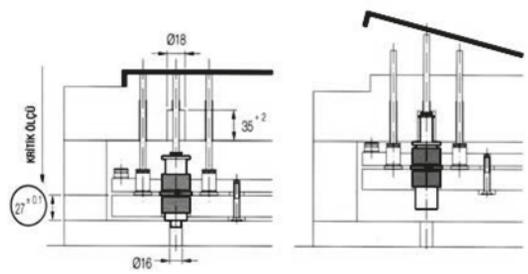
Malzeme : 7242 Sertleştirilmiş 52 / 54 HRC





İtici Hızlandırıcı : Kalıp içinde istenen iticinin kursunu arttırır. Silindirik şekli nedeni ile montajı kolaydır. Tüm kalıplara uygulanabilir.

Ref.	A	B	C	D	E	F	G	J	K	L	M	N	P	Q	R
AE.031620	3	16	20	12.5	22	13	14	8	32	22	17	37	-	4	3
AE.041620	4	16	20	12.5	22	1	14	8	32	22	17	37	-	4	3
AE.052430	5	24	30	16	34	16	20	15	44	36	27	57	2	4	3
AE.062430	6	24	30	16	34	16	20	15	44	36	27	57	2	4	3
AE.082430	8	24	30	17	34	17	20	15	44	36	27	57	2	4	3
AE.103036	10	30	36	21.5	40	21	28	20	62	46	34	78	2	6	4
AE.123036	12	30	36	21.5	40	21	28	20	62	46	34	78	2	6	4

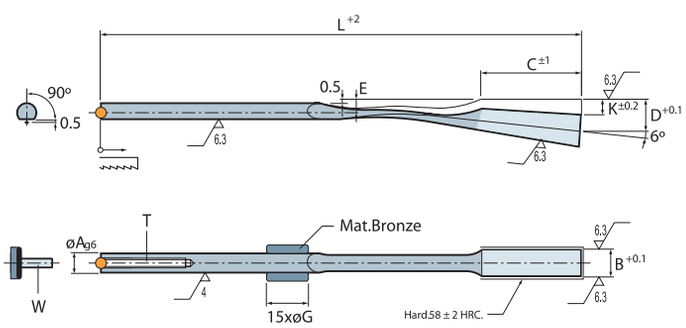


Esnek İç Maça

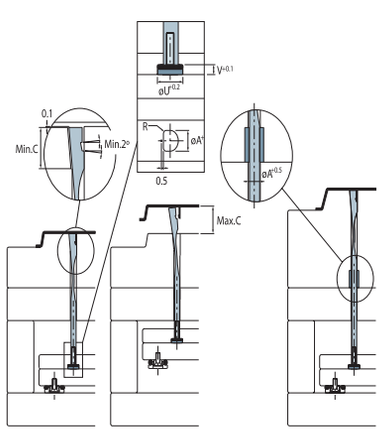
Esnek İç Maça : Yay çeliğinden imal edilmiştir. küçük tırnakların çıkarılmasında kullanılır. Diğer iticiler gibi itici plakasıyla birlikte çalışır

Malzeme : 8159 Templado 45 ± 3 HRC



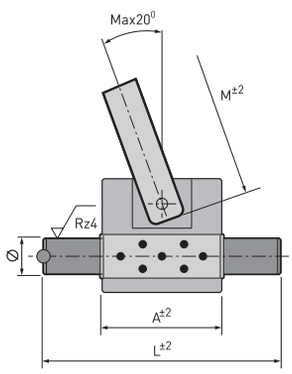


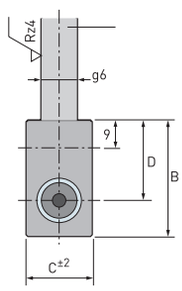
Ref.	A	B	C	D	E	G	K	L	M	N	R	T	U	V	W	CS
PW.060622	6	6.2	22	9	3.5	-	3.5	125	16	18	1.25	M4x36	12	5	M4x16(DIN7991)	-
PW.060630	6	6.2	30	10	3.5	12	4.5	175	20	26	1.25	M4x36	12	5	M4x16(DIN7991)	•
PW.060822	6	8.2	22	9	3.5	-	3.5	125	16	18	1.25	M4x36	12	5	M4x16(DIN7991)	-
PW.060830	6	8.2	30	10	3.5	12	4.5	175	20	26	1.25	M4x36	12	5	M4x16(DIN7991)	•
PW.080825	8	8.2	25	11.5	4.5	-	4.5	140	18	21	2	M5x36	14	6	M5x16(DIN7984)	-
PW.081025	8	10.2	25	11.5	4.5	-	4.5	140	18	21	2	M5x36	14	6	M5x16(DIN7984)	-
PW.081030	8	10.2	30	11.2	4.5	12	4.5	175	20	26	2	M5x36	14	6	M5x16(DIN7984)	•
PW.081225	8	12.2	25	11.5	4.5	-	4.5	140	18	21	2	M5x36	14	6	M5x16(DIN7984)	-
PW.081230	8	12.2	30	11.2	4.5	12	4.5	175	20	26	2	M5x36	14	6	M5x16(DIN7984)	•
PW.101430	10	14.2	30	13.6	5.5	16	5.5	175	20	26	2.5	M6x36	18	8	M6x16(DIN7984)	•
PW.101630	10	16.2	30	13.6	5.5	16	5.5	175	20	26	2.5	M6x36	18	8	M6x16(DIN7984)	•
PW.101830	10	18.2	30	13.6	5.5	16	5.5	175	20	26	2.5	M6x36	18	8	M6x16(DIN7984)	•



İç Maça Gövdesi

Malzeme : 1.3212 = 1080 N/mm²
İç Maça Gövdesi : Farklı açılarda itme gerektiren iç hareketlerde kullanılır. Grafitli bronz burç çalışmayı kolaylaştırır.



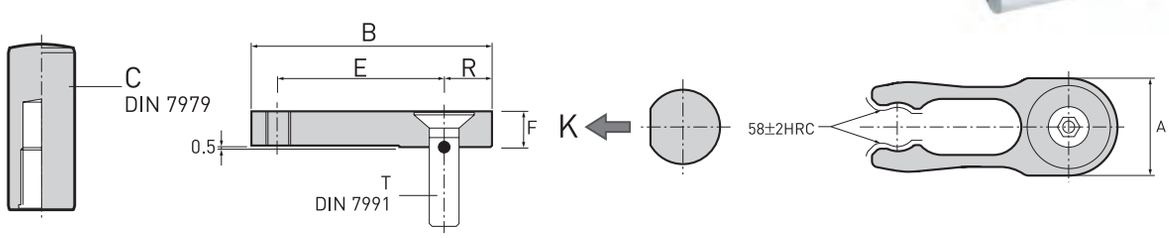




Kod	A	B	C	D	L	M	Ø
SD. 3220 GR	32	37	20	27	80	180	10
SD. 3824 GR	38	40	24	28	80	210	12
SD. 4528 GR	45	44	28	30	100	250	16

Malzeme : 8159 Sertleştirilmiş 45±3HRC
Maça Tutucu : K Değeri tutucudan kurtulmak için gereken yaklaşık yük değeridir.



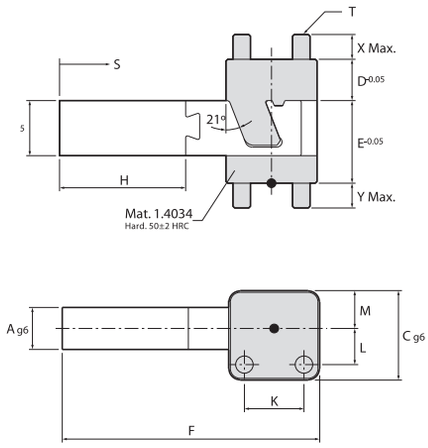


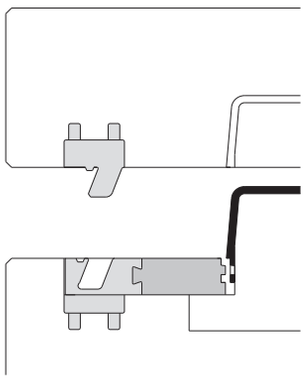
Kod	A	B	C	E	F	G	H	R	T	K Kg.
RC. 123006	12	30	6x20	21	5	4	16	6	M5x16	4
RC. 164008	16	40	8x20	28	6	5	15	8	M6x25	6
RC. 205010	20	50	10x24	34	8	6	17	10	M8x30	12
RC. 246012	24	60	12x32	42	10	7	23	12	M10x40	18
RC. 328012	32	80	16x40	56	12	9	27	16	M12x50	25
RC. 328016	32	80	16x40	56	16	9	25	16	M12x50	32

Kızaklı Maça

Malzeme : 1.2344





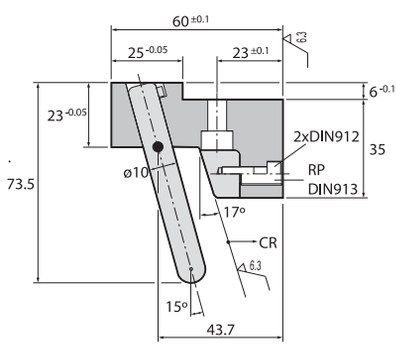


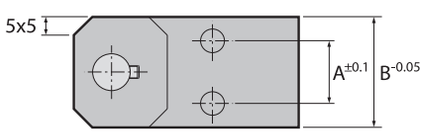
Ref.	A	B	C	D	E	F	H	K	L	M	R	S	T	X	Y
SU.081220	8.2	12	20	10	18	60	32	12.5	8.25	8	3.75	3	M4	7	8
SU.121626	12.2	16	26	12	24	73.5	36	17	10.5	11	4.5	4	M5	9	7
SU.162032	16.2	20	32	16	30	86.5	40	22	13	14	5	5	M6	10	11

Standart Maça Klavuzu

Malzeme : 1.2312







- İşlemiş açılı pim deliği ve ayarlanabilir maça bloğundan oluşur
- Dıştaki 2 vida dayama bloğunu sabitler, ortadaki vida ise pozisyonu belirler.

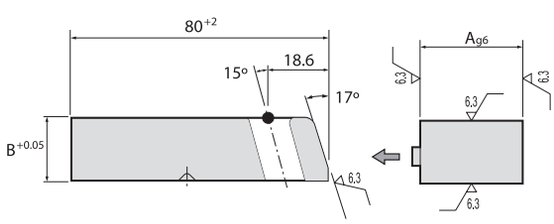
Ref.	A	B	CR (N)	RP	Includes
CG.603075	17	30	180.000	081015	GI.010075
CG.604075	22	40	320.000	101015	GI.010075

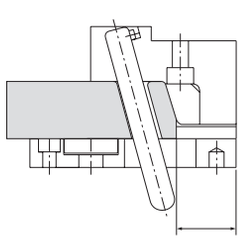
Maça Kızağı

Malzeme : 1.2344

- Değiştirilebilir ve alıştırması yapılmıştır tek gereken parça formunun işlenmesidir
- Dikdörtgen formu nedeni ile işlenmesi basittir.







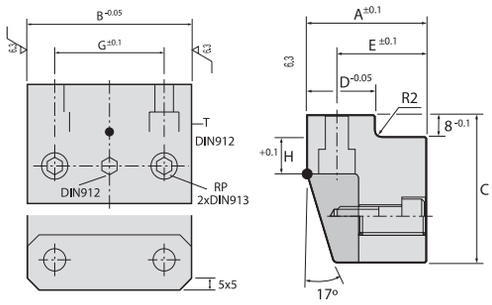
Ref.	A	B
CA.322080	32	20
CA.322480	32	24
CA.422080	42	20
CA.422480	42	24

Ayarlanabilir Maça Dayaması

Malzeme : 1.2312



- Kalıp kapalı iken maça kızağını ayarlama imkanı sağlar.
- Dıştaki 2 vida dayama bloğunu sabitler, ortadaki vida ise pozisyon belirler.



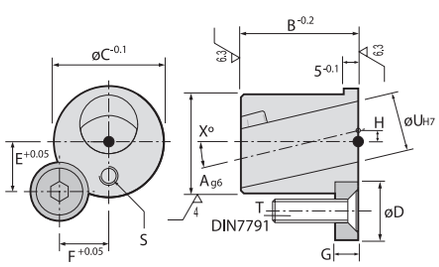
Kod	A	B	C	D	E	G	H	T	RP	CR(N)
CR.403840	40	38	40	25	30	22	12	M8x30	101020	320.000
CR.454849	45	48	49	28	35	28	16	M10x35	121025	480.000
CR.526052	52	60	52	32	40	35	16	M10x35	141030	750.000
CR.526852	52	68	52	32	40	45	16	M10x35	141030	750.000
CR.527556	52	75	56	32	40	50	16	M10x35	141030	750.000

Açılı Pim Tutucu 10° - 15°

Malzeme : 1.7242



- Bu ünite kalıp üzerinde açılı delik delme ihtiyacını ortadan kaldırır.
- Üniteyi oturtmak için kalıbın ön tarafından bir delik delinir.
- 10° - 15° olarak temin edilir.

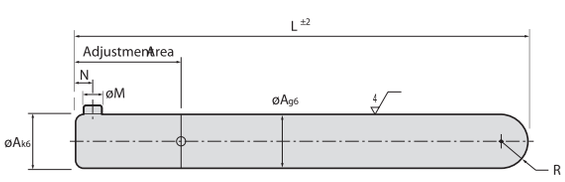


Kod	A	B	C	D	E	F	G	H	S	T	U	X°
GR.182622-10	18	26	22	12	10.8	7.5	6	3.8	M5x5	M5x16	10	10
GR.222826-10	22	28	26	16	11	11	6	4	M6x6	M6x16	12	10
GR.283432-10	28	34	32	16	13	13	6	5	M6x6	M6x16	16	10
GR.344038-10	34	40	38	20	17	17	8	5.5	M8x6	M8x20	20	10
GR.424546-10	42	45	46	20	19.5	19.5	8	6	M8x6	M8x20	24	10
GR.465050-10	46	50	50	20	21	21	8	7	M8x6	M8x20	28	10
GR.182622-15	18	26	22	12	10.8	7.5	6	3.8	M5x5	M5x16	10	15
GR.222826-15	22	28	26	16	11	11	6	4	M6x6	M6x16	12	15
GR.283432-15	28	34	32	16	13	13	6	5	M6x6	M6x16	16	15
GR.344038-15	34	40	38	20	17	17	8	5.5	M8x6	M8x20	20	15
GR.424546-15	42	45	46	20	19.5	19.5	8	6	M8x6	M8x20	24	15
GR.465050-15	46	50	50	20	21	21	8	7	M8x6	M8x20	28	15

Açılı Pim

Malzeme : 1.7242





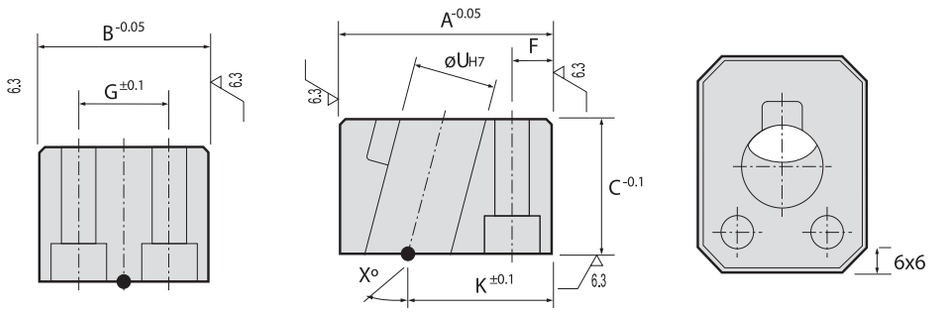
- 75 - 90 - 105 boylar temin edilir.

Kod	A	Adjustament Area	M	N	L			R
GI.010..	10	25	4	4	075	090	105	5
GI.012..	12	30	4	4	095	110	130	6
GI.016..	16	35	4	4	115	135	160	8
GI.020..	20	40	6	6	140	165	190	10
GI.024..	24	45	6	6	170	195	220	12
GI.028..	28	50	6	6	200	225	250	14

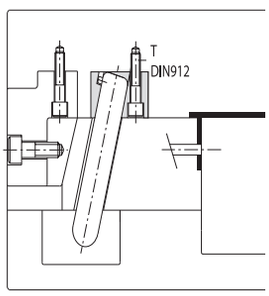
Açılı Pim Tutucu

Malzeme : 1.2312





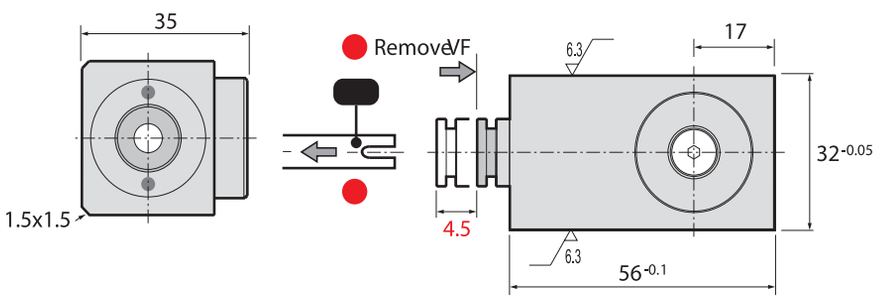
Kod	A	B	C	F	G	K	T	U	X
BG.423016-15	42	30	30	7.5	15	28	M6x35	16	15
BG.504020-15	50	40	36	9	22	34	M8x40	20	15
BG.554024-15	55	40	40	9	22	38	M8x45	24	15
BG.655028-15	65	50	45	12	26	45	M10x50	28	15
BG.423016-20	42	30	30	7.5	15	28	M6x35	16	20
BG.504020-20	50	40	36	9	22	34	M8x40	20	20
BG.554024-20	55	40	40	9	22	38	M8x45	24	20
BG.655028-20	65	50	45	12	26	45	M10x50	28	20



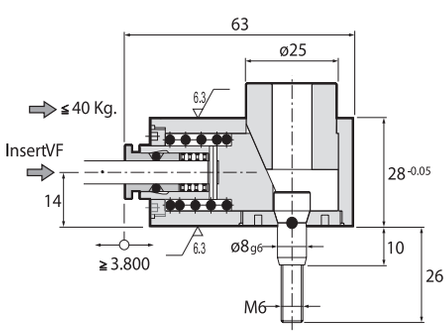
Delik Maçası

Malzeme : 1.7264





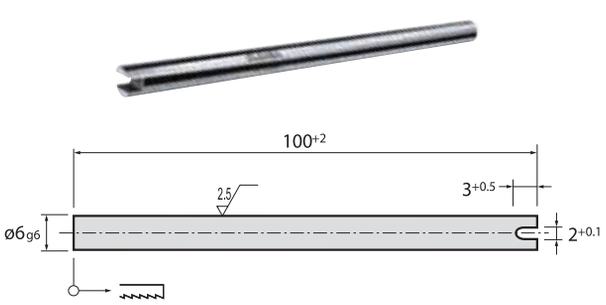
- Yan delikleri oluşturmak için kullanılır.
- Maça pimi otomatik kilitleme sistemi ile tutulur.
- Montaj için ihtiyaç duyulan alan oldukça küçüktür.

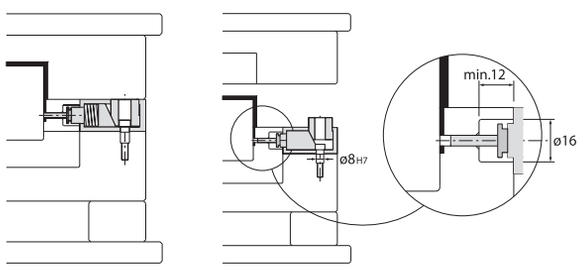


Delik Maçası Pimi

Malzeme : 1.2510

- İstenilen şekli işlemek için hazırdır.



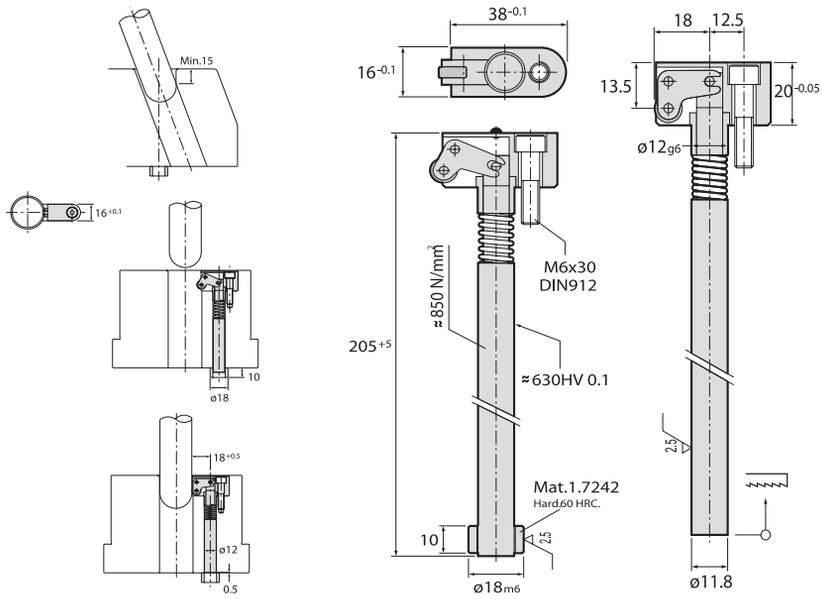


Otomatik Maça Tutucu

Malzeme : 1.2510

- Açılı pimle çalışan büyük maçalarda kullanılır.
- Büyük yüklere gerek duymadan kolay ve pürüzsüz çalışır.

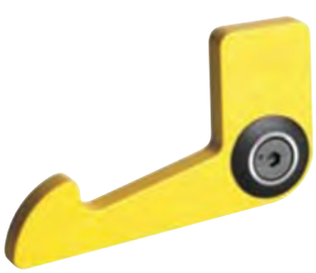


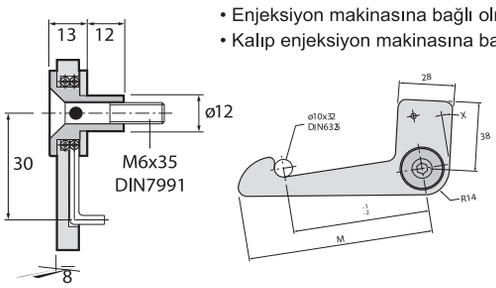


Emniyet Kilidi 75

Malzeme : 1.0503

- Enjeksiyon makinasına bağlı olmayan kalıbı kapalı tutar.
- Kalıp enjeksiyon makinasına bağlanırken kilit otomatik olarak açılır.





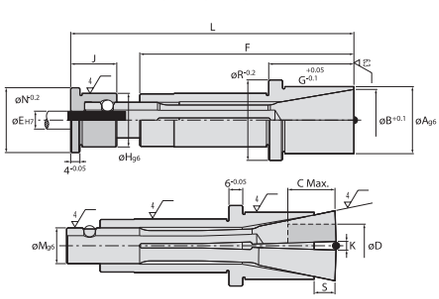
Ref.	L	M	N	X
BS.050075	50	75	8.7	15°
BS.075100	75	100	7	12°
BS.100125	100	125	6	10°
BS.125150	125	150	4.8	8°

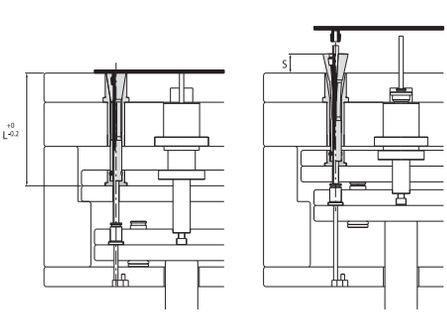
4'lü Otomatik Maça

Malzeme : 1.2101

- Esnek maça üzerinde 4 farklı hareket imkanı sağlar
- Montaj alanı minimum düzeyde olup gerektirdiği alan bir itici kadardır.
- Özel form işçiliğinin dışında frezeleme, taşlama veya sertleşrime gibi işlemler gerektirmez.
- Kalıp ayrım yüzeyine 90º yuva açılır.









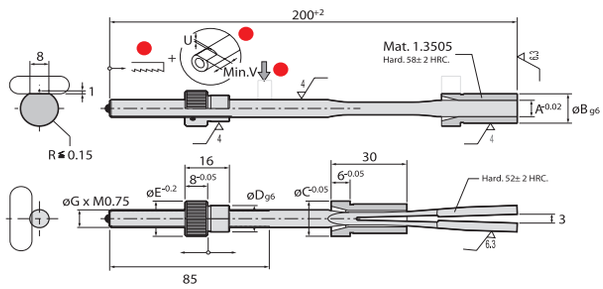
Kod	A	B	C	D	E	F	G	H	J	K	L	M	N	R	S
PE.201208	20	18	12	8	6	63	27	18	17	2	88	12	22	26	8
PE.302214	30	27.5	22	14	8	93	37	24	20	2.5	122.5	16	29	36	9.5
PE.403220	40	37	32	20	12	117	51	34	25	4	158	22	39	46	16

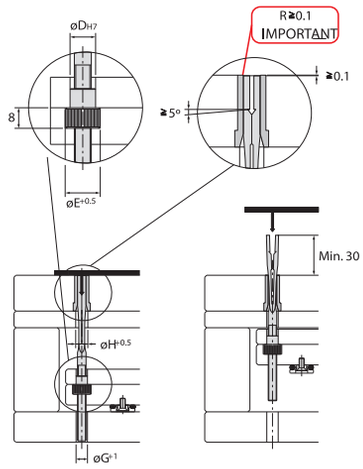
2'li Esnek İç Maça

Malzeme : 1.2101



- Küçük tırnaklar için oldukça kullanışlıdır.
- Alıştırması yapılmış ve boy ayarı kolaylıkla yapılır.





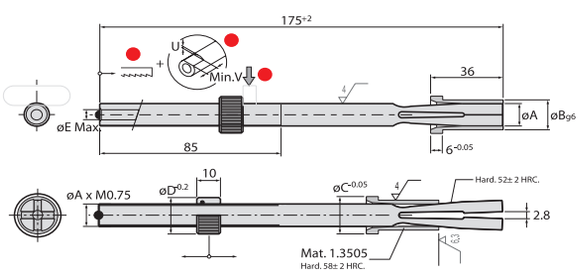
Kod	A	B	C	D	E	G	H	U	V
ED.068200	6	12	14	10	14	6	10	0.5	10
ED.088200	8	14	16	12	16	8	12	0.5	10
ED.108200	10	16	18	14	18	8	14	0.5	15
ED.128200	12	16	18	16	20	8	15	0.5	15

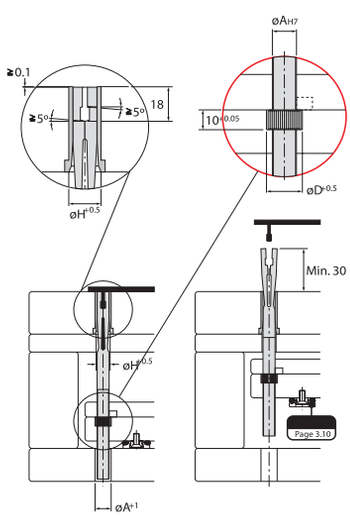
4'lü Esnek İç Maça

Malzeme : 1.2101



- Küçük tırnaklar için oldukça kullanışlıdır.
- Alıştırması yapılmış ve boy ayarı kolaylıkla yapılır.



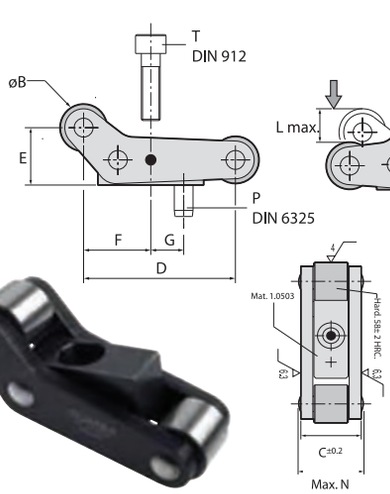


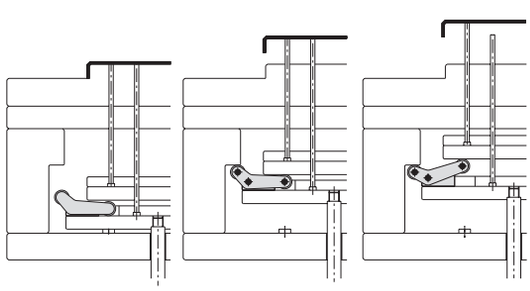
Kod	A	B	C	D	E	H	U	V
EE.060175	6	10	12	12	-	9	0.5	10
EE.082175	8	12	14	14	2	11	0.5	10
EE.103175	10	14	16	16	3	13	0.5	15
EE.124175	12	16	18	18	4	15	0.5	15
EE.168175	16	20	22	22	8	19	1	20

Plaka Hızlandırıcı

Malzeme : 1.2510

- Bu ürün normal itici kursuna ilave olarak 2. plakaya fazladan bir hareket kazandırır.
- 2'li veya 4'lü kullanılır.



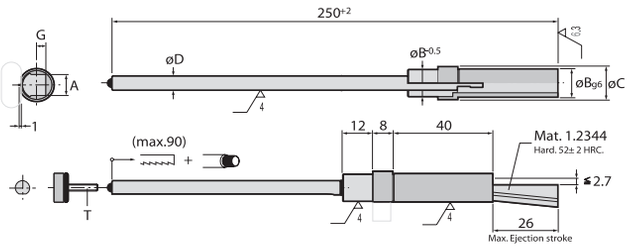


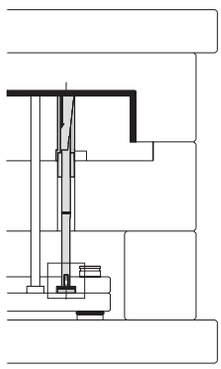
Kod	A	B	C	D	E	F	G	H	L	M	N	P	T	Max İtme
EP.200813	20	8	13.2	25.8	9.4	11.4	6	13.6	5.5	5	15	Ø2.5x10	M3x12	125 Kg
EP.251016	25	10	16	32.3	11.8	14.3	7	17	6.8	6	18.5	Ø3x12	M4x16	250 Kg
EP.371522	37.5	15	22	48.5	17.7	21.5	10.5	25.5	10.2	8	25	Ø4x16	M6x25	350 Kg
EP.502030	50	20	29.6	64.6	23.6	28.6	14	34	13.6	10	34	Ø5x20	M8x30	800 Kg

Standart Mekanik Maça

Malzeme : 1.4034





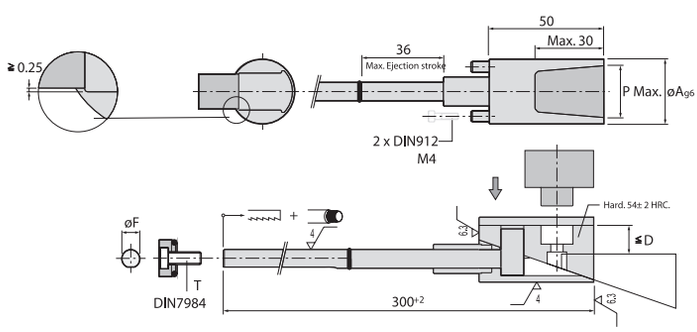


Kod	A	B	C	D	G	R	T	U	V
PS.062250	6.2	10	12	6	3.4	1.25	M4x16 (DIN7991)	12	5
PS.082250	8.2	12	14	6	4	1.25	M4x16 (DIN7991)	12	5
PS.102250	10.2	14	16	8	4.2	2	M5x16 (DIN7984)	14	6
PS.122250	12.2	16	18	8	4.2	2	M5x16 (DIN7984)	14	6

Burçlu Maça

Malzeme : 1.4034





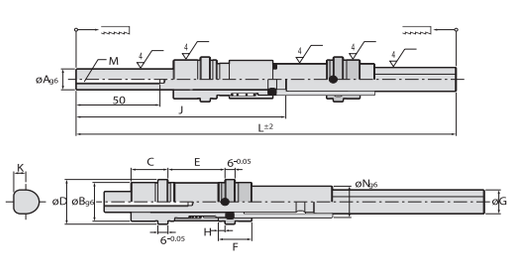
- Minimum itici plaka kursundan küçük tırnaklar (16 mm'e kadar) için kullanılır.
- Montaj kolaylığı için gövde ve kızağın alıştırması yapılmıştır, detay işlemleri gerektirir.
- Maçanın yataklaması diktir.

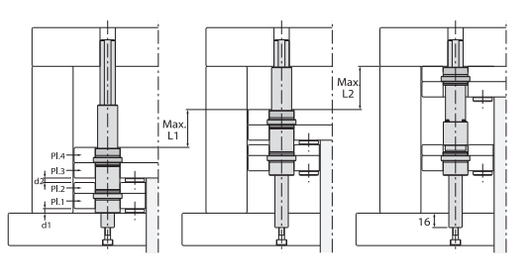
Kod	A	D	F	J	K	P	R	T	U	V
PC.285016	28	12	8	14	20	15.5	2	M5x16	14	6
PC.365022	36	16	10	15	27.5	21.5	2.5	M6x16	18	8

Çift Plaka İtici Sistemi

Malzeme : 1.7264

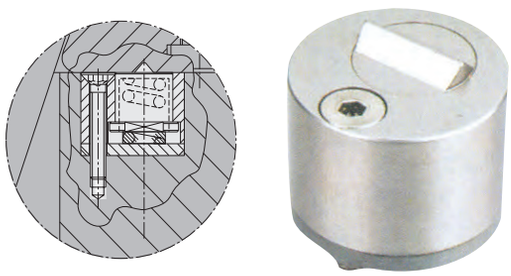


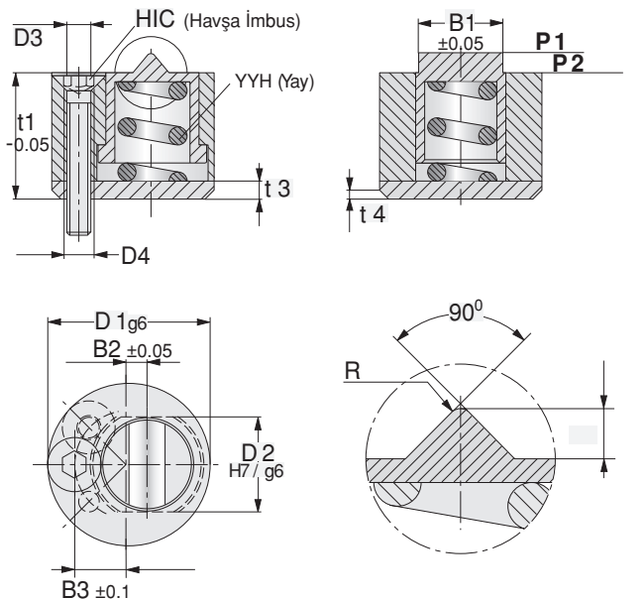




Kod	A	B	C	D	E	F	G	H	J	K	L	M	N	L1	L2
DX.142622	14	26	22	30	34	20	16	4	125	7.2	243	M6	21	42	48
DX.163027	16	30	27	34	44	23	18	6	152	8	314	M8	24	54	80

Maça Kızak Tutucu Yaylı Ünite





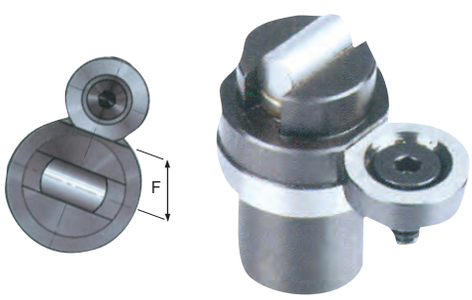
Enjeksiyon kalıplarında maça sistemlerinde slayt tutucu yuvarlak maça tutucular tespit pimsiz çalışır, maça tutucu olmadan da maçayı kaldırabilir. yuvarlak şekli montajı kolaylaştırır.
Maksimum sıcaklık :100°C Malzeme : 1.2767

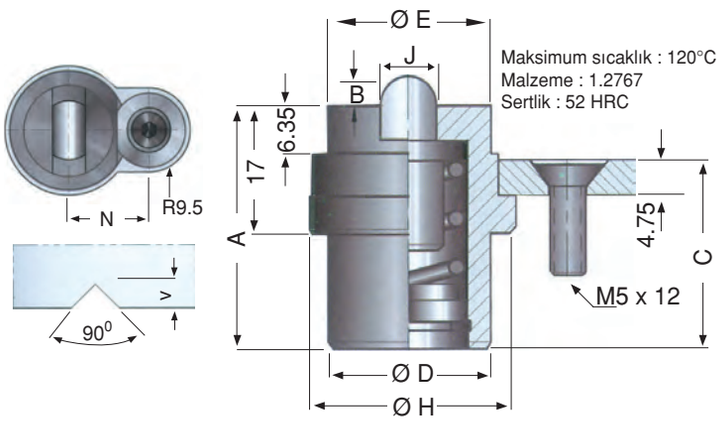
KOD	D1	B1	B2	B3	t1	t2	t3
MTY.13	13	6.6	1.4	4.3	10	1.0	1.6
MTY.18	18	9.6	2.0	6.0	14	1.8	2.0
MTY.27	27	14.4	3.0	9.0	21	2.8	3.0

t4	D2	D3	D4	R	P1	P2	HIC
0.35	7	2.2	M3	0.35	28 Nw	34 Nw	M2 -16
0.50	10	3.2	M4	0.50	38 Nw	42 Nw	M3 -50
0.50	15	4.3	M5	0.75	38 Nw	92 Nw	M4 -25

Kolay kullanım yüklemeye göre dizayn edilmiştir. Maça sistemi bağımsız kendi kendine çalışır.

Maça Kızak Tutucu Yaylı - Pimli Ünite



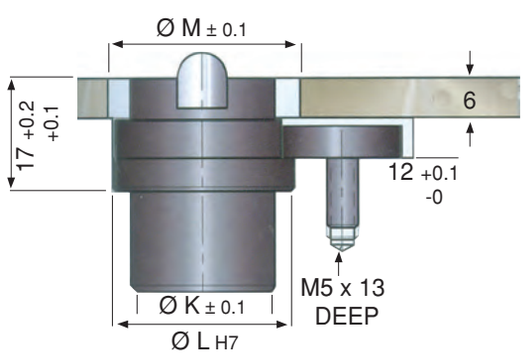


Küçük, yuvarlak, montajı kolay, bağımsız, temas bağlantılı kolay kullanım, yüklemeye göre dizayn edilmiştir. 3 mm tutma oranı ile tiplere göre 48 / 88 / 176 Nw kuvvet gereksinimleri sunar. Tespit pimi maçanın içine tam olarak kilitlenir. kalıp kapama işlemi yaparken boşa çıkana kadar, tutucu açıldığında hızasızlık olduğunda dahi pim içeri girer.

KOD	A	B	C	D	E	F
MTYP.100	27.43	1.83	20.2	15.75	16	9.52
MTYP.200	33.53	3.07	26.29	18.8	19	10.67
MTYP.400	32	3.78	24.76	22.1	22	11.86

H	J	V	K	L	M	N	Kgf.
22	4.8	2.3	15.87	22	24	17	4.5
25	6.35	3.9	19.05	25	27	18.2	9
28	7.92	4.9	22.23	28	30	19.4	18

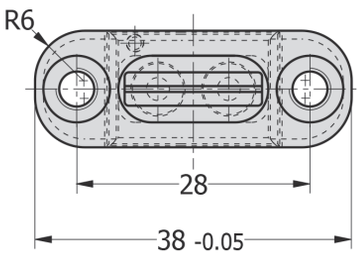
Sağlam boyut olarak küçük ve yuvarlak oluşu kalıba montaj kolaylığı sağlar.

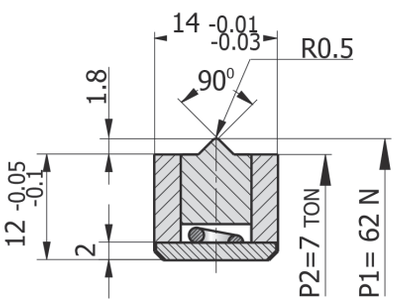


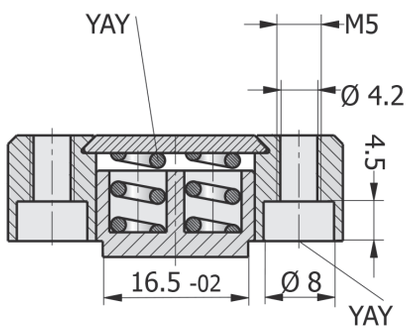
Maça Tutucu - MTT 1

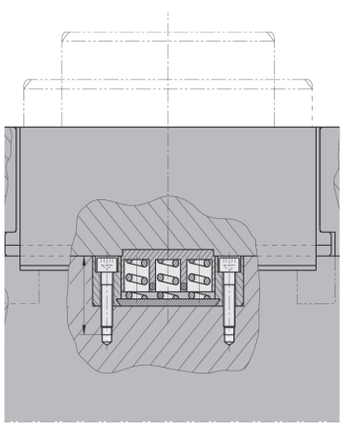


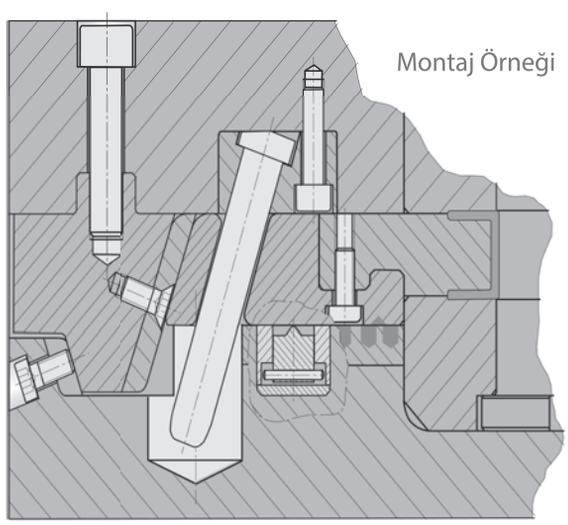
Maça Sistemlerinde Temas Bağlantılı Hat
Maksimum sıcaklık : 100°C
Malzeme : 1.2343
Sertlik : 54 ± 2 HRC







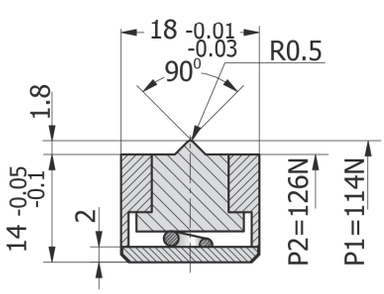


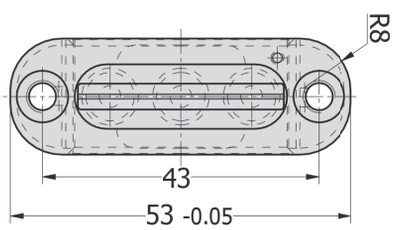


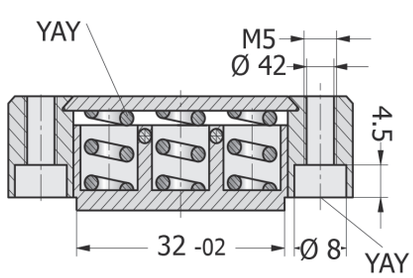
Maça Tutucu - MTT 2



Maça Sisteminde Tutucu Olmadan Maçayı Kaldırır, Bağımsız Ünite
Maksimum sıcaklık : 100°C
Malzeme : 1.2343
Sertlik : 54 ± 2 HRC



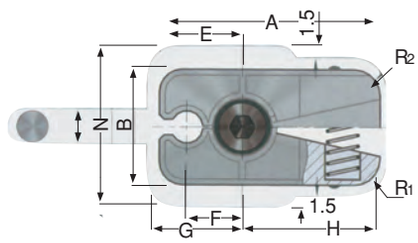




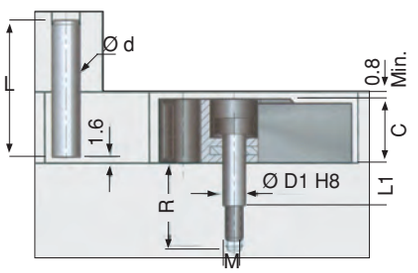
Maça Tutucu Pimli

Hassas - Kilitlemeli ve Hizalamalı, Pimli





KOD	A	B	C	E	F	G
MTP 10M	38	19	16	16	**9.1**	19
MTP 20M	54	32	20	21	**12.7**	24
MTP 40M	86	45	30	53	**20.3**	36



H	N	**K**	D1	L1	R	R1	R2	M
26	25	**8**	6	6	15.5	8	5	M5
36	36	**10**	8	8.5	20.5	10	6	M6
56	56	**12**	10	10	25	13	10	M8

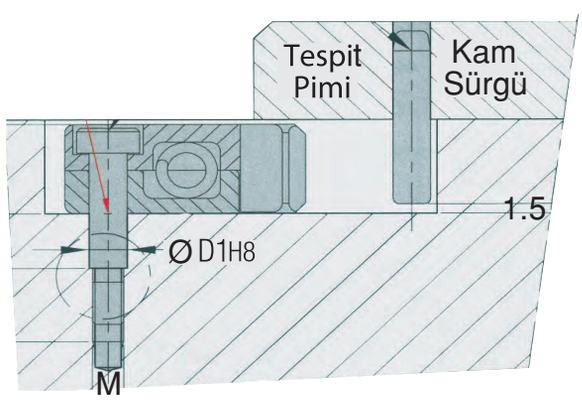
Maça Blok
10 (Kgf.)
20 (Kgf.)
40 (Kgf.)

K Değeri : Maça bloğunun, maça tutucudan kurtulması için gereken max. yük değeridir.

Maça açılırken, pim tutucunun içine girer. Küçük çaplı yanlış hatalar (hizasızlıklar) olsa bile işlem devam eder.

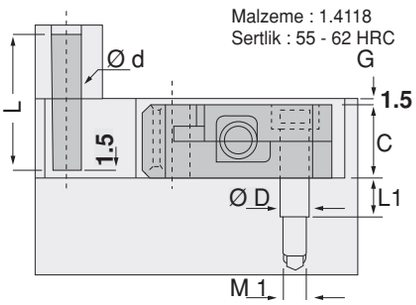
Montaj Talimatı :

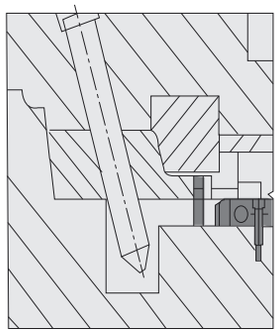
1. Maça tutucunun gövdesini tekrar yuvadan çıkarmak için kalıp üzerinde çıkarıcı pim deliği açmak gereklidir.
2. Maça tutucu üzerindeki pimin merkezi ile montaj esnasında maça tutucu üzerindeki merkezi arasındaki mesafe hassastır (F) iyi hesaplanıp ayarlanmalıdır.
3. Kalıbınıza uygun olan (Maça Tutucu Pimli veya Maça Tutucu Kapalı Yaylı Pimli Tip) gerekli olan taşıma yükünün daha üzerinde bir kuvvette olan modeli tercih ediniz (Emniyet için önemlidir).



Pimli, Kapalı Yaylı Tip Maça Tutucu

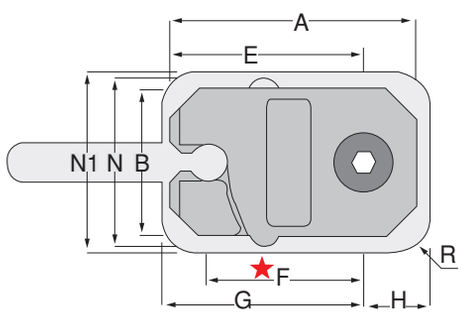






KOD	A	B	C	E	★F	N	G	H
MTPY.38	38	19	16	31.5	24.89	24	34.5	10
MTPY.54	54	32	20	43	34.93	36.5	46	14.5
MTPY.86	86	45	30	67	53.98	49.5	70	22.5

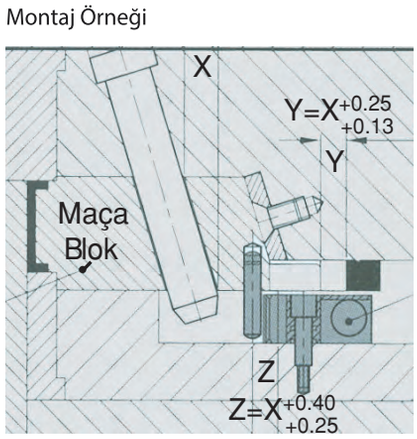
N1	R	D	L1	M1	d/L	Maça
25.5	8	6	8.5	M5X11	6x30	10 Kg.
38	10	8	10.5	M6X14	8x40	20 Kg.
51	12	10	17	M8X18	10x60	40 Kg.



Tespit pimi 90 ile monte edilebilir, pimin yerleşimi ve maça bloğunun açılma yönü ile aynı olmalıdır. Kalıp kapanışında farklı bir değişiklik yoksa; sistemde bu ürün maça kilidi olarak kullanılabilir.

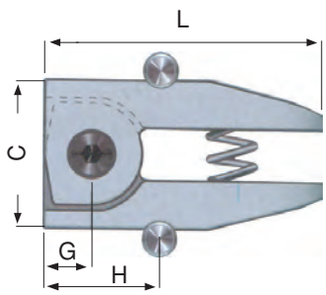
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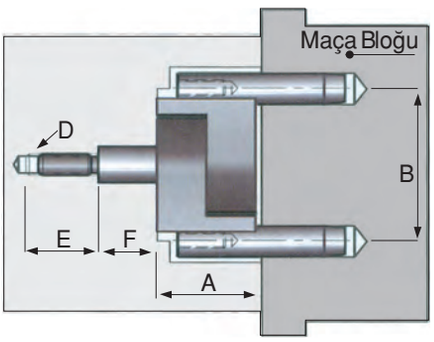
Montaj Örneği

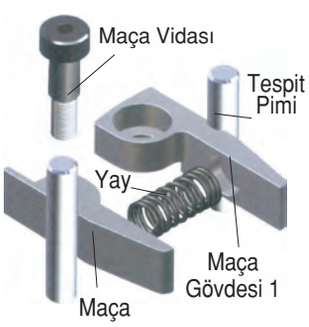


Maça Tutucu Mandallı









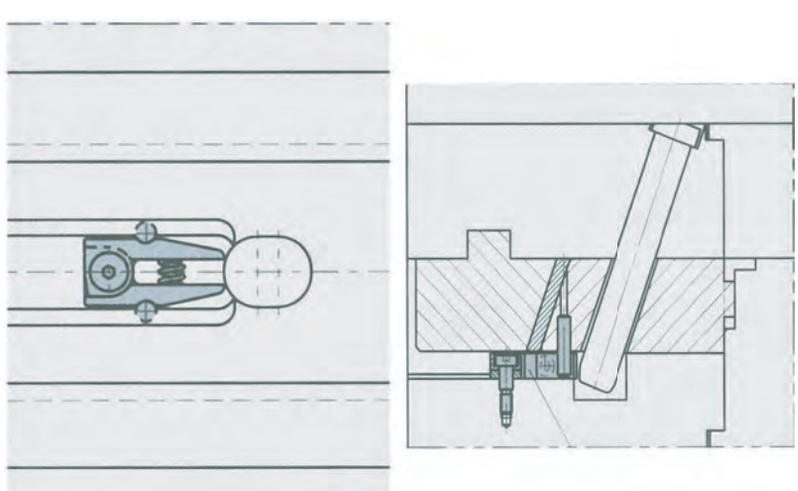
Malzeme : 1.2767
Sertlik : 55 - 62 HRC
Maksimum sıcaklık : 100°
Özellikle alaşımlı malzemeli kalıplarda tercih edilebilir.

KOD	A	B	C	E	F
MTM 1040	10	21.5	18	9.5	5.1
MTM 1243	12	25.5	22	11	6.1
MTM 1650	16	31.5	28	11	8.1

KOD	G	H	L	D	Max. Tutma	Tespit Pimi
MTM 1040	7	17.5	40	M5		10
MTM 1243	7.5	18	43	M6	Ø 6 - 30	15
MTM 1650	9.5	20.5	50	M6		25

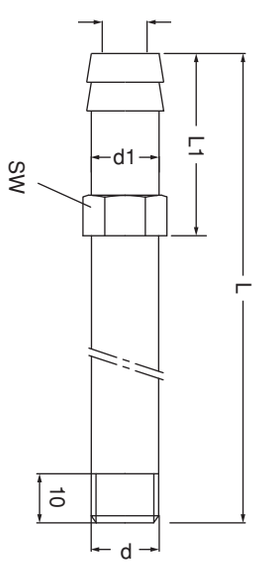
Maça Tutucu Mandalı:
Deliklere eklenen maça civatası (F) çok derinden olmamalı. Maça gövdesikendini kilitledikten sonra düzgünce ve pürüssüzce çalışması gerekir. Bu yüzden civatayı çok sıkmayın. Tespit pimi maçanın üstündeyken, maça gövdesi kalıbın üstüne tutturulur. Ayrıca maça kaydırma mesajesi tam olarak hesaplanıp montajı yapılmalıdır.

Montaj Örneği



Hortum Girişli Rekorlar

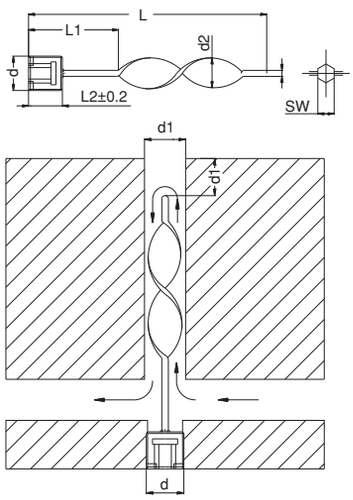




Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	L	L1	SW
SR ER M8	M8x1.25	12	7	40	28	13
SR ER M8-60	M8-60x1.25	12	7	60	28	13
SR ER M8-80	M8-80x1.25	12	7	80	28	13
SR ER M8-100	M8-100x1.25	12	7	100	28	13
SR ER M8-120	M8-120x1.25	12	7	120	28	13
SR ER M8-150	M8-150x1.25	12	7	150	28	13
SR ER M10	M10x1.5	12	7	40	28	13
SR ER M10-60	M10-60x1.5	12	7	60	28	13
SR ER M10-80	M10-80x1.5	12	7	80	28	13
SR ER M10-100	M10-100x1.5	12	7	100	28	13
SR ER M10-120	M10-120x1.5	12	7	120	28	13
SR ER M10-150	M10-150x1.5	12	7	150	28	13
SR ER M12	M12x1.75	12	7	40	28	13
SR ER M12-60	M12-60x1.75	12	7	60	28	13
SR ER M12-80	M12-80x1.75	12	7	80	28	13
SR ER M12-100	M12-100x1.75	12	7	100	28	13
SR ER M12-120	M12-120x1.75	12	7	120	28	13
SR ER M12-150	M12-150x1.75	12	7	150	28	13
SR ER M14	M14	12	7	40	28	14
SR ER M14-60	M14-60	12	7	60	28	14
SR ER M14-80	M14-80	12	7	80	28	14
SR ER M14-100	M14-100	12	7	100	28	14
SR ER M14-120	M14-120	12	7	120	28	14
SR ER M14-150	M14-150	12	7	150	28	14
SR ER M16	M16	12	7	40	28	16
SR ER M16-60	M16-60	12	7	60	28	16
SR ER M16-80	M16-80	12	7	80	28	16
SR ER M16-100	M16-100	12	7	100	28	16
SR ER M16-120	M16-120	12	7	120	28	16
SR ER M16-150	M16-150	12	7	150	28	16
SR ER 10	G 1/8”	12	7	40	28	13
SR ER 10-60	G 1/8”	12	7	60	28	13
SR ER 10-80	G 1/8”	12	7	80	28	13
SR ER 10-100	G 1/8”	12	7	100	28	13
SR ER 10-120	G 1/8”	12	7	120	28	13
SR ER 10-150	G 1/8”	12	7	150	28	13
SR ER 13	G 1/4”	12	7	40	28	14
SR ER 13-60	G 1/4”	12	7	60	28	14
SR ER 13-80	G 1/4”	12	7	80	28	14
SR ER 13-100	G 1/4”	12	7	100	28	14
SR ER 13-120	G 1/4”	12	7	120	28	14
SR ER 13-150	G 1/4”	12	7	150	28	14
SR ER 17	G 3/8”	12	7	40	28	17
SR ER 17-60	G 3/8”	12	7	60	28	17
SR ER 17-80	G 3/8”	12	7	80	28	17
SR ER 17-100	G 3/8”	12	7	100	28	17
SR ER 17-120	G 3/8”	12	7	120	28	17
SR ER 17-150	G 3/8”	12	7	150	28	17

Separatör



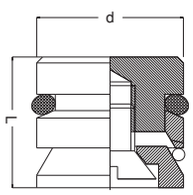


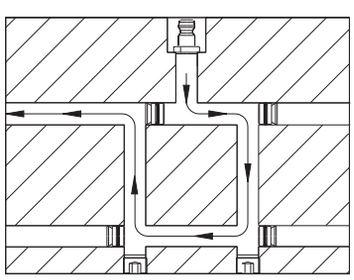
Metrik Sipariş No	d	SW	d1	d2	L	L1	L2	k
HSEP M8.100	8x0.75	4	6	5.8	100	50	8	1.6
HSEP M8.200	8x0.75	4	6	5.8	200	100	8	1.6
HSEP M8.300	8x0.75	4	6	5.8	300	150	8	1.6
HSEP M10.100	10x1.0	5	8	7.8	100	50	8	1.6
HSEP M10.100.1.5	10x1.5	5	8	7.8	100	50	8	1.6
HSEP M10.200	10x1.0	5	8	7.8	200	100	8	1.6
HSEP M10.300	10x1.0	5	8	7.8	300	150	8	1.6
HSEP M12.125	12x1.5	6	10	9.8	125	50	8	2.0
HSEP M12.250	12x1.5	6	10	9.8	250	100	8	2.0
HSEP M16.150	16x1.5	8	14	13.8	150	50	10	2.4
HSEP M16.300	16x1.5	8	14	13.8	300	100	10	2.4
HSEP M20.150	20x1.5	10	18	17.8	150	50	10	2.4
HSEP M20.200	20x1.5	10	18	17.8	200	100	10	2.4
HSEP M20.300	20x1.5	10	18	17.8	300	50	10	2.4
HSEP M20.400	20x1.5	10	18	17.8	400	100	10	2.4
HSEP M24.150	24x2.0	10	20	19.8	150	50	12	2.4
HSEP M24.300	24x2.0	10	20	19.8	300	100	12	2.4

Su Yolluk Tıkacı





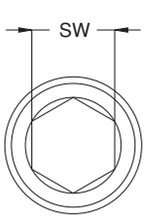


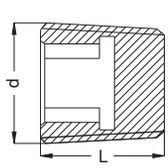


Viton Oring Sipariş No	NBR Oring Sipariş No	d	L
TKV - 06	TK - 06	6	10
TKV - 08	TK - 08	8	10
TKV - 10	TK - 10	10	10
TKV - 12	TK - 12	12	10
TKV - 14	TK - 14	14	12
TKV - 16	TK - 16	16	12
TKV - 20	TK - 20	20	12

Körtapa



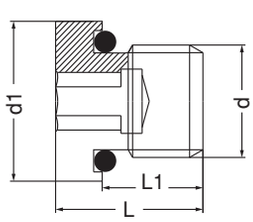


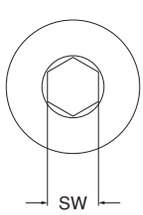


Sipariş No	d	L	SW
KTP 10	BSP 1/8”	8	5
KTP 13	BSP 1/4”	10	7
KTP 17	BSP 3/8”	10	8
KTP 21	BSP 1/2”	10	10
KTP 26	BSP 3/4”	12	12
KTP 33		19	17
KTP 42	BSP 1.1/4”	22	22
KTP 48	BSP 1.1/2”	22	24

Şapkalı Körtapa

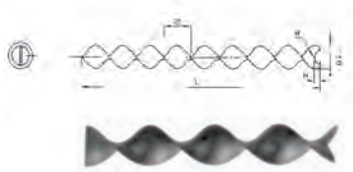


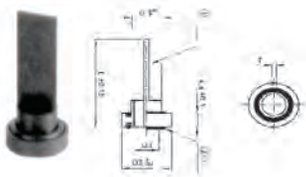


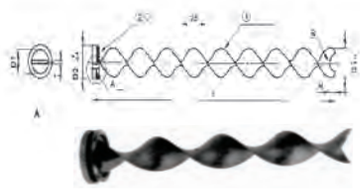


Sipariş No	d	d1	L	L1	SW
OSKTR M10	M10x1	14	10	7	5
OSKTR M12	M12x1.5	17	11	8	6
OSKTR M14	M14x1.5	19	12	9	8
OSKTR M16	M16x1.5	21	12	9.5	10
OSKTR M22	M22x1.5	27	13	11.5	14
OSKTR M24	M24x1.5	30	15	11.5	14

Plastik Soğutma Spirali







montajda ürün montaj yuvasına rahat (0.2-0.5) boşlukla geçmelidir.

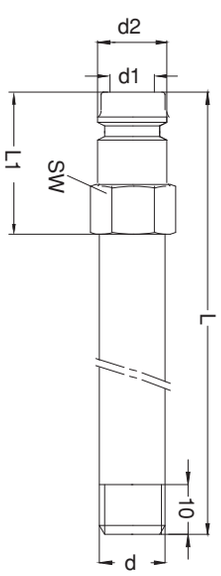
R	H	Kod	D	L
2	2	GCB	8	96-196-296
2,5	2,5		10	
3	3		12	
4	4		16	
5	5		20	96-196-296
6	6		25	396

D1	D2	T	Ürün		L
			Kod	D	
6	15	1.2	GCT	8	25-30-35-40
8	18	1.5		10	
10	22	1.6		12	
13	25	2		16	
17	30	2		20	
22	35	2.4		25	

D1	D2	T	R	H	Ürün		L
					Kod	D	
8	15	1.5	2	2	GCA	8	100-200-300
10	18	1.8	2.5	2.5		10	
11	22	2	3	3		12	
15	25	3	4	4		16	
18	30	3	5	5		20	100-200-300
22	35	3.5	6	6		25	400

Otomatik Girişli Rekorlar





Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	SW	L	L1
590 ER 10	BSP 1/8"	9	13	14	29	10
590 ER 13	BSP 1/4"	9	13	14	29	10
590 ER 17	BSP 3/8"	9	13	17	29	10
590 ER 21	BSP 1/2"	9	13	21	29	10
590 ER M8	M8X1.25	9	13	14	29	10
590 ER M10-1	M10X1.5	9	13	14	29	10
590 ER M10	M10X1.0	9	13	14	29	10
590 ER M12	M12X1.75	9	13	14	29	10
590 ER M14	M14X1.5	9	13	21	29	10
590 ER M16	M16X1.5	9	13	21	29	10

Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	SW	L	L1
590 ER 10-60	BSP 1/8"	9	13	14	60	20
590 ER 10-80	BSP 1/8"	9	13	14	80	20
590 ER 10-100	BSP 1/8"	9	13	14	100	20
590 ER 10-120	BSP 1/8"	9	13	14	120	20
590 ER 10-150	BSP 1/8"	9	13	14	150	20

Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	SW	L	L1
590 ER 13-60	BSP 1/4"	9	13	14	60	20
590 ER 13-80	BSP 1/4"	9	13	14	80	20
590 ER 13-100	BSP 1/4"	9	13	14	100	20
590 ER 13-120	BSP 1/4"	9	13	14	120	20
590 ER 13-150	BSP 1/4"	9	13	14	150	20

Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	SW	L	L1
590 ER 17-60	BSP 3/8"	9	13	17	60	20
590 ER 17-80	BSP 3/8"	9	13	17	80	20
590 ER 17-100	BSP 3/8"	9	13	17	100	20
590 ER 17-120	BSP 3/8"	9	13	17	120	20
590 ER 17-150	BSP 3/8"	9	13	17	150	20

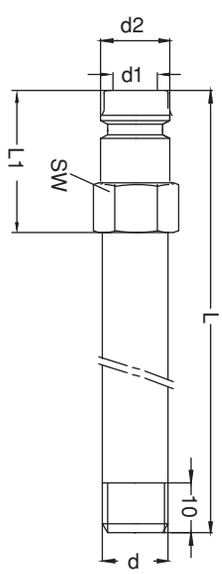
Otomatik Girişli Rekorlar (Quick)



Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	SW	L	L1
590 ER M8-60	M8x1.25	9	13	14	60	20
590 ER M8-80	M8x1.25	9	13	14	80	20
590 ER M8-100	M8x1.25	9	13	14	100	20
590 ER M8-120	M8x1.25	9	13	14	120	20
590 ER M8-150	M8x1.25	9	13	14	150	20

Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	SW	L	L1
590 ER M10-60	M10x1.5	9	13	14	60	20
590 ER M10-80	M10x1.5	9	13	14	80	20
590 ER M10-100	M10x1.5	9	13	14	100	20
590 ER M10-120	M10x1.5	9	13	14	120	20
590 ER M10-150	M10x1.5	9	13	14	150	20

Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	SW	L	L1
590 ER M12-60	M12x1.75	9	13	14	60	20
590 ER M12-80	M12x1.75	9	13	14	80	20
590 ER M12-100	M12x1.75	9	13	14	100	20
590 ER M12-120	M12x1.75	9	13	14	120	20
590 ER M12-150	M12x1.75	9	13	14	150	20



Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	SW	L	L1
590 ER M14-60	M14x2	9	13	14	60	20
590 ER M14-80	M14x2	9	13	14	80	20
590 ER M14-100	M14x2	9	13	14	100	20
590 ER M14-120	M14x2	9	13	14	120	20
590 ER M14-150	M14x2	9	13	14	150	20

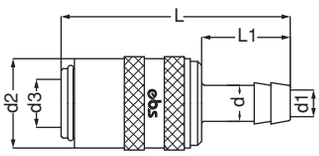
Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	SW	L	L1
590 ER M16-60	M16x2	9	13	14	60	20
590 ER M16-80	M16x2	9	13	14	80	20
590 ER M16-100	M16x2	9	13	14	100	20
590 ER M16-120	M16x2	9	13	14	120	20
590 ER M16-150	M16x2	9	13	14	150	20

590 Serisi Gövde (Su)



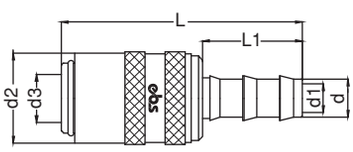


Hortum Gövde / Hose Tail Socket



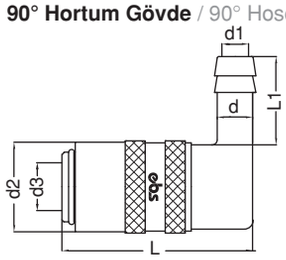
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	d3	L	L1
590 HGB 10	590 HG 10	10	7.5	23	13	59	23
590 HGB 13	590 HG 13	13	10	23	13	59	23

Kelepçesiz Hortum Gövde / Hose Clamp Socket



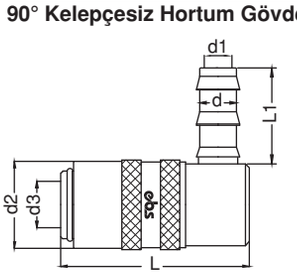
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	d3	L	L1
590 FGB 10	590 FG 10	10	7.5	23	13	64	28
590 FGB 13	590 FG 13	13	10	23	13	64	28

90° Hortum Gövde / 90° Hose Tail Socket



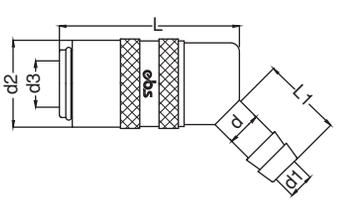
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	d3	L	L1
590 HGB 10-90	590 HG 10-90	10	7.5	23	13	52	29
590 HGB 13-90	590 HG 13-90	13	10	23	13	52	29

90° Kelepçesiz Hortum Gövde /90° Hose



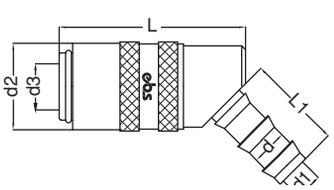
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	d3	L	L1
590 FGB 10-90	590 FG 10-90	10	7.5	23	13	52	29
590 FGB 13-90	590 FG 13-90	13	10	23	13	52	29

45° Hortum Gövde / 45°Hose Tail Socket



Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	d3	L	L1
590 HGB 10-45	590 HG 10-45	10	7.5	23	13	52	26
590 HGB 13-45	590 HG 13-45	13	10	23	13	52	26

45° Kelepçesiz Hortum Gövde /45° Hose



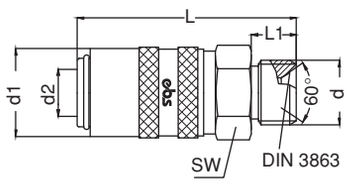
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	d3	L	L1
590 FGB 10-45	590 FG 10-45	10	7.5	23	13	52	29
590 FGB 13-45	590 FG 13-45	13	10	23	13	52	29

590 Serisi Gövde (Su)



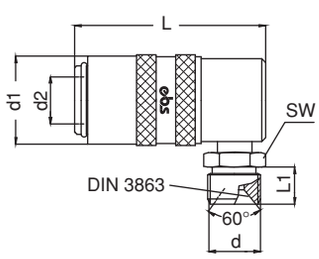


Erkek Gövde / Male Thread Socket



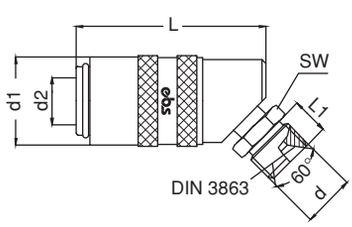
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	L	L1	SW
590 EGB 13	590 EG 13	BSP 1/4”	23	13	52	9	21
590 EGB 17	590 EG 17	BSP 3/8”	23	13	52	9	21
590 EGB 21	590 EG 21	BSP 1/2”	23	13	52	9	21
590 EGB M16	590 EG M16	M16x1.5	23	13	52	10	21

90° Erkek Gövde / 90° Male Thread Socket



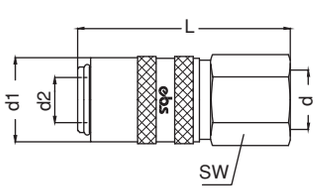
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	L	L1	SW
590 EGB 13-90	590 EG 13-90	BSP 1/4”	23	13	52	9	15
590 EGB 17-90	590 EG 17-90	BSP 3/8”	23	13	52	9	19
590 EGB 21-90	590 EG 21-90	BSP 1/2”	23	13	52	9	21
590 EGB M16-90	590 EG M16-90	M16x1.5	23	13	52	10	19

45° Erkek Gövde / 45° Male Thread Socket



Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	L	L1	SW
590 EGB 13-45	590 EG 13-45	BSP 1/4”	23	13	52	9	15
590 EGB 17-45	590 EG 17-45	BSP 3/8”	23	13	52	9	19
590 EGB 21-45	590 EG 21-45	BSP 1/2”	23	13	52	9	21
590 EGB M16-45	590 EG M16-45	M16x1.5	23	13	52	10	19

Dişi Gövde / Female Thread Socket



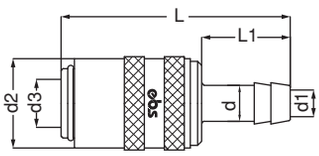
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	L	SW
590 DGB 13	590 DG 13	BSP 1/4”	23	13	52	21
590 DGB 17	590 DG 17	BSP 3/8”	23	13	52	21
590 DGB 21	590 DG 21	BSP 1/2”	23	13	52	24
590 DGB M16	590 DG M16	M16x1.5	23	13	52	21

560 Serisi Gövde (Su)



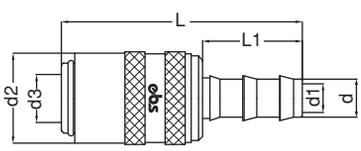


Hortum Gövde / Hose Tail Socket



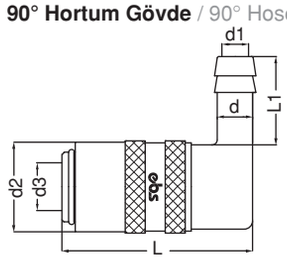
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	d3	L	L1
560 HGB 06	560 HG 06	6	4.5	18	9	47.5	17.5
560 HGB 08	560 HG 08	8	6	18	9	47.5	17.5
560 HGB 10	560 HG 10	10	7	18	9	47.5	17.5

Kelepçesiz Hortum Gövde / Hose Clamp Socket



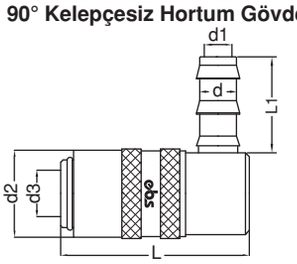
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	d3	L	L1
560 FGB 06	560 FG 06	6	4.5	18	9	48	18
560 FGB 08	560 FG 08	8	6	18	9	48	18
560 FGB 10	560 FG 10	10	7	18	9	48	18

90° Hortum Gövde / 90° Hose Clamp Socket



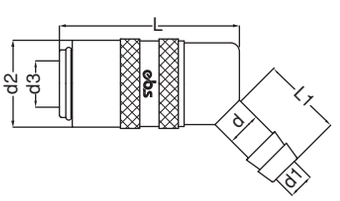
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	d3	L	L1
560 HGB 06-90	560 HG 06-90	6	4.5	18	9	42	26
560 HGB 08-90	560 HG 08-90	8	6	18	9	42	26
560 HGB 10-90	560 HG 10-90	10	7	18	9	42	26

90° Kelepçesiz Hortum Gövde /90° Hose



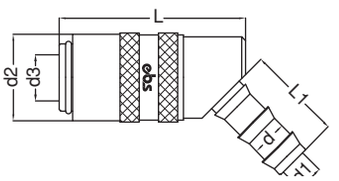
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	d3	L	L1
560 FGB 06-90	560 FG 06-90	6	4.5	18	9	42	26
560 FGB 08-90	560 FG 08-90	8	6	18	9	42	26
560 FGB 10-90	560 FG 10-90	10	7	18	9	42	26

45° Hortum Gövde / 45°Hose Tail Socket



Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	d3	L	L1
560 HGB 06-45	560 HG 06-45	6	4.5	18	9	42	26
560 HGB 08-45	560 HG 08-45	8	6	18	9	42	26
560 HGB 10-45	560 HG 10-45	10	7	18	9	42	26

45° Kelepçesiz Hortum Gövde /45° Hose

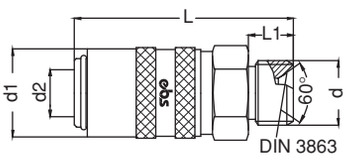


Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	d3	L	L1
560 FGB 06-45	560 FG 06-45	6	4.5	18	9	42	26
560 FGB 08-45	560 FG 08-45	8	6	18	9	42	26
560 FGB 10-45	560 FG 10-45	10	7	18	9	42	26

560 Serisi Gövde (Su)

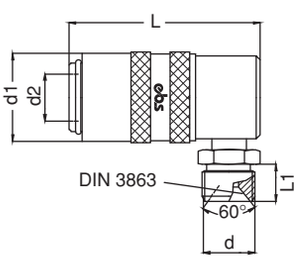


Erkek Gövde / Male Thread Socket



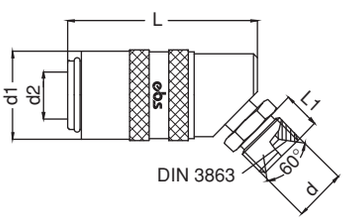
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	L	L1	SW
560 EGB 13	560 EG 13	BSP 1/4”	18	9	47.5	9	17
560 EGB 17	560 EG 17	BSP 3/8”	18	9	47.5	9	17
560 EGB M10	560 EG M10	M10x1.0	18	9	47.5	9	17
560 EGB M14	560 EG M14	M14x1.5	18	9	47.5	9	17

90° Erkek Gövde / 90° Male Thread Socket



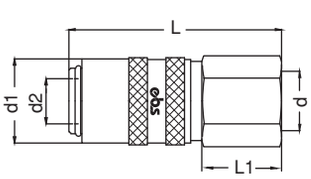
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	L	L1	SW
560 EGB 13-90	560 EG 13-90	BSP 1/4”	18	9	42	9	14
560 EGB 17-90	560 EG 17-90	BSP 3/8”	18	9	42	9	17
560 EGB M14-90	560 EG M14-90	M14x1.5	18	9	42	9	17

45° Erkek Gövde / 45° Male Thread Socket



Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	L	L1	SW
560 EGB 13-45	560 EG 13-45	BSP 1/4”	18	9	42	9	14
560 EGB 17-45	560 EG 17-45	BSP 3/8”	18	9	42	9	17
560 EGB M14-45	560 EG M14-45	M14x1.5	18	9	42	9	17

Dişi Gövde / Female Thread Socket



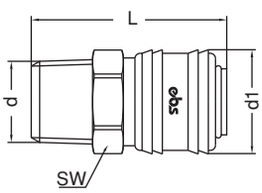
Valfli / With Valve Sipariş No Order No	Valflsiz / Without Valve Sipariş No Order No	d	d1	d2	L	L1	SW
560 DGB 13	560 DG 13	BSP 1/4”	18	9	47.5	9	17
560 DGB 17	560 DG 17	BSP 3/8”	18	9	47.5	9	21
560 DGB M10	560 DG M10	M10x1.0	18	9	47.5	9	17
560 DGB M14	560 DG M14	M14x1.5	18	9	47.5	9	17

A26 Serisi Gövde (Hava)



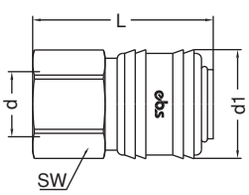


Erkek Gövde / Male Thread Socket



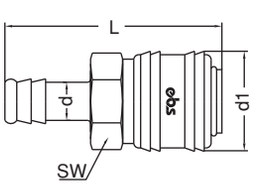
Valfli / With Valve Sipariş No Order No	d	d1	L	SW
A26 EGB 13	BSP 1/4”	25	58	21
A26 EGB 17	BSP 3/8”	25	58	21
A26 EGB 21	BSP 1/2”	25	59	21
A26 EGB M14	M14x1,5	25	58	21
A26 EGB M16	M16x1,5	25	58	21
A26 EGB M18	M18x1,5	25	59	21

Dişi Gövde / Female Thread Socket



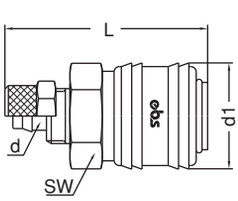
Valfli / With Valve Sipariş No Order No	d	d1	L	SW
A26 DGB 10	BSP 1/8”	25	41	21
A26 DGB 13	BSP 1/4”	25	41	21
A26 DGB 17	BSP 3/8”	25	41	21
A26 DGB 21	BSP 1/2”	25	41	24
A26 DGB M14	M14x1,5	25	41	21
A26 DGB M16	M16x1,5	25	41	21
A26 DGB M18	M18x1,5	25	41	22

Hortum Gövde / Hose Tail Socket



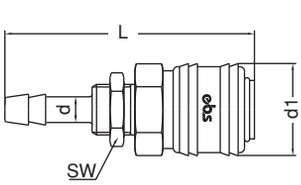
Valfli / With Valve Sipariş No Order No	d	d1	L	SW
A26 HGB 06	6 mm - 1/4”	25	55	21
A26 HGB 08	8 mm - 5/16”	25	55	21
A26 HGB 09	9 mm - 5/14”	25	55	21
A26 HGB 10	10 mm - 3/8”	25	55	21
A26 HGB 13	13 mm - 1/2”	25	55	21

Plastik Hortum Gövde / Plastic Hose Coupling



Valfli / With Valve Sipariş No Order No	d	d1	L	SW
A26 PGB 06	6x8 mm M12x1	25	50	21
A26 PGB 08	8x10 mm M16x1	25	54	21
A26 PGB 09	9x12 mm M16x1	25	63	21

Panel Plastik Hortum Gövde / Panel Mount Plastic Hose Coupling



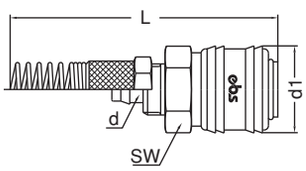
Valfli / With Valve Sipariş No Order No	d	d1	L	SW
A26 MGB 06	6 mm M12x1	25	60	21
A26 MGB 08	8 mm M16x1	25	63	21
A26 MGB 10	10 mm M16x1	25	72	21

A26 Serisi Gövde (Hava)



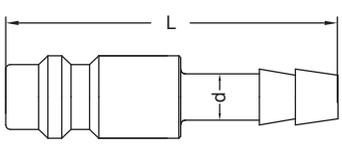


Yaylı Plastik Hortum Gövde / Plastic Hose Coupling with Spring



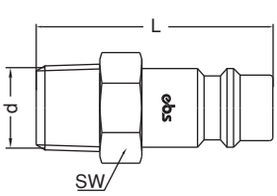
Valfli / With Valve Sipariş No Order No	d	d1	L	SW
A26 YGB 06	6x8 mm M12x1	25	133	21
A26 YGB 08	8x10 mm M16x1	25	148	21
A26 YGB 09	9x12 mm M16x1	25	148	21

Hortum Uç / Hose Plugs



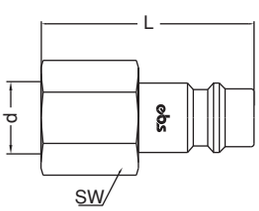
Valfli / With Valve Sipariş No Order No	d	L
A26 HR 06	6 mm - 1/4”	46
A26 HR 08	8 mm - 5/16”	46
A26 HR 09	9 mm - 5/14”	46
A26 HR 10	10 mm - 3/8”	46
A26 HR 13	13 mm - 1/2”	48

Erkek Uçlar / Male Plugs



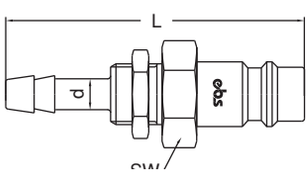
Valflsiz / Without Valve Sipariş No Order No	d	L	SW
A26 ER 10	BSP 1/8”	31	13
A26 ER 13	BSP 1/4”	33	14
A26 ER 17	BSP 3/8”	33	17
A26 ER 21	BSP 1/2”	38	22
A26 ER M14	M14x1,5	35	17
A26 ER M16	M16x1,5	36	17
A26 ER M18	M18x1,5	37	19

Dişi Uçlar / Female Plugs



Valflsiz / Without Valve Sipariş No Order No	d	L	SW
A26 DR 10	BSP 1/8”	30	14
A26 DR 13	BSP 1/4”	33	17
A26 DR 17	BSP 3/8”	33	19
A26 DR 21	BSP 1/2”	36	24
A26 DR M14-1	M14x1,25	33	17
A26 DR M14	M14x1,5	33	17
A26 DR M16	M16x1,5	33	19
A26 DR M18	M18x1,5	36	21

Panel Hortum Uç / Panel Mount



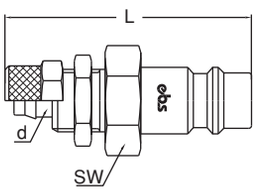
Valflsiz / Without Valve Sipariş No Order No	d	L	SW
A26 MR 06	6 mm M12x1	56	14
A26 MR 08	8 mm M12x1	56	14
A26 MR 10	10 mm M14x1	56	16

A26 Serisi Gövde (Hava)



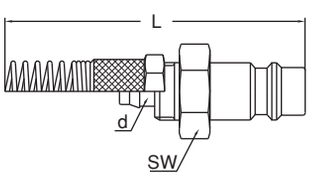


Plastik Hortum Uç / Plastic Hose Plug



Valfsiz / Without Valve Sipariş No Order No	d	L	SW
A26 PR 04	4x6 mm M10x1	34	12
A26 PR 06	6x8 mm M12x1	34	12
A26 PR 08	8x10 mm M16x1	42	17
A26 PR 09	9x12 mm M16x1	42	17

Yaylı Plastik Hortum Uç / Plastic Hose Plug with Spring



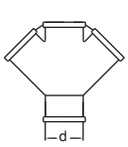
Valfsiz / Without Valve Sipariş No Order No	d	L	SW
A26 YR 04	4x6 mm M10x1	120	12
A26 YR 06	6x8 mm M12x1	120	12
A26 YR 08	8x10 mm M16x1	140	17
A26 YR 09	9x12 mm M16x1	140	17

İkili Gövde / 2 Way Connector



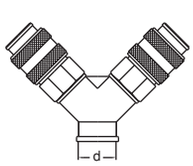
Sipariş No Order No	Bağlantı / Connection	
	Erkek / Male	Dişi / Female
A26 2G 13B	R 1/4”	G 1/4”
A26 2G 17B	R 3/8”	G 3/8”
A26 2G 21B	R 1/2”	G 1/2”

Üçlü Gövde / 3 Way Connector



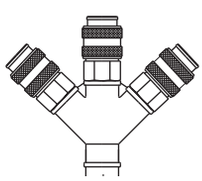
Sipariş No Order No	Bağlantı / Connection	
	Erkek / Male	Dişi / Female
A26 3G 13B	R 1/4”	G 1/4”
A26 3G 17B	R 3/8”	G 3/8”
A26 3G 21B	R 1/2”	G 1/2”

İkili Gövde / 2 Way Connector



Valfli / With Valve Sipariş No Order No	d
A26 2GD 17	BSP 3/8”
A26 2GD 21	BSP 1/2”
A26 2GD 13	BSP 1/4"

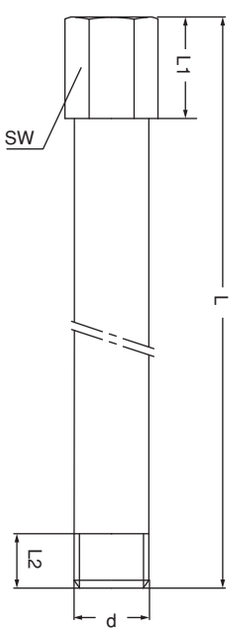
Üçlü Gövde / 3 Way Connector



Valfli / With Valve Sipariş No Order No	d
A26 3GD 17	BSP 3/8”
A26 3GD 21	BSP 1/2”
A26 3GD 13	BSP 1/4"

Uzatma Rekorları





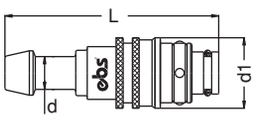
Valflsiz / Without Valve Sipariş No Order No	Bağlantı Ölç. (Erkek) Connection (Male)	Bağlantı Ölç. (Dişi) Connection (Female)	L	L1	L2	SW
UZR 10-60	G 1/8”	G 1/8”	60	12	10	14
UZR 10-80	G 1/8”	G 1/8”	80	12	10	14
UZR 10-100	G 1/8”	G 1/8”	100	12	10	14
UZR 10-120	G 1/8”	G 1/8”	120	12	10	14
UZR 10-150	G 1/8”	G 1/8”	150	12	10	14
UZR 13-60	G 1/4”	G 1/4”	60	12	10	16
UZR 13-80	G 1/4”	G 1/4”	80	12	10	16
UZR 13-100	G 1/4”	G 1/4”	100	12	10	16
UZR 13-120	G 1/4”	G 1/4”	120	12	10	16
UZR 13-150	G 1/4”	G 1/4”	150	12	10	16
UZR 17-60	G 3/8”	G 3/8”	60	12	10	19
UZR 17-80	G 3/8”	G 3/8”	80	12	10	19
UZR 17-100	G 3/8”	G 3/8”	100	12	10	19
UZR 17-120	G 3/8”	G 3/8”	120	12	10	19
UZR 17-150	G 3/8”	G 3/8”	150	12	10	19
UZR 10-13-60	G 1/8”	G 1/4”	60	12	10	16
UZR 10-13-80	G 1/8”	G 1/4”	80	12	10	16
UZR 10-13-100	G 1/8”	G 1/4”	100	12	10	16
UZR 10-13-120	G 1/8”	G 1/4”	120	12	10	16
UZR 10-13-150	G 1/8”	G 1/4”	150	12	10	16
UZR 13-10-60	G 1/4”	G 1/8”	60	12	10	14
UZR 13-10-80	G 1/4”	G 1/8”	80	12	10	14
UZR 13-10-100	G 1/4”	G 1/8”	100	12	10	14
UZR 13-10-120	G 1/4”	G 1/8”	120	12	10	14
UZR 13-10-150	G 1/4”	G 1/8”	150	12	10	14
UZR 10-17-60	G 1/8”	G 3/8”	60	12	10	19
UZR 10-17-80	G 1/8”	G 3/8”	80	12	10	19
UZR 10-17-100	G 1/8”	G 3/8”	100	12	10	19
UZR 10-17-120	G 1/8”	G 3/8”	120	12	10	19
UZR 10-17-150	G 1/8”	G 3/8”	150	12	10	19
UZR 17-10-60	G 3/8”	G 1/8”	60	12	10	19
UZR 17-10-80	G 3/8”	G 1/8”	80	12	10	19
UZR 17-10-100	G 3/8”	G 1/8”	100	12	10	19
UZR 17-10-120	G 3/8”	G 1/8”	120	12	10	19
UZR 17-10-150	G 3/8”	G 1/8”	150	12	10	19
UZR 13-17-60	G 1/4”	G 3/8”	60	12	10	19
UZR 13-17-80	G 1/4”	G 3/8”	80	12	10	19
UZR 13-17-100	G 1/4”	G 3/8”	100	12	10	19
UZR 13-17-120	G 1/4”	G 3/8”	120	12	10	19
UZR 13-17-150	G 1/4”	G 3/8”	150	12	10	19
UZR 17-10-60	G 3/8”	G 1/4”	60	12	10	19
UZR 17-10-80	G 3/8”	G 1/4”	80	12	10	19
UZR 17-10-100	G 3/8”	G 1/4”	100	12	10	19
UZR 17-10-120	G 3/8”	G 1/4”	120	12	10	19
UZR 17-10-150	G 3/8”	G 1/4”	150	12	10	19

600 Serisi Rekorlar



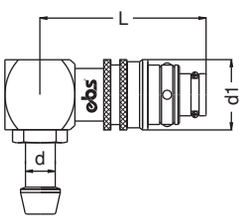


Hortum Gövde / Hose Tail Socket



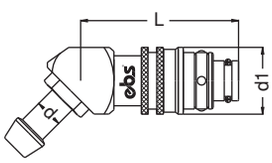
Valflsiz / Without Valve Sipariş No Order No	d	d1	L
600.08 HG 06	1/4” 06mm	20	62
600.08 HG 08	5/16” 08mm	20	62
600.08 HG 10	3/8” 10mm	20	62
600.08 HG 12	15/32” 12mm	20	62
600.08 HG 13	1/2” 13mm	20	62

90° Hortum Gövde / 90° Hose Tail Socket



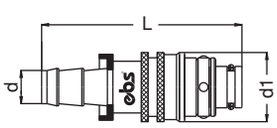
Valflsiz / Without Valve Sipariş No Order No	d	d1	L
600.08 HG 06-90°	1/4” 06mm	20	45.5
600.08 HG 08-90°	5/16” 08mm	20	45.5
600.08 HG 10-90°	3/8” 10mm	20	45.5
600.08 HG 12-90°	15/32” 12mm	20	45.5
600.08 HG 13-90°	1/2” 13mm	20	45.5

45° Hortum Gövde / 45°Hose Tail Socket



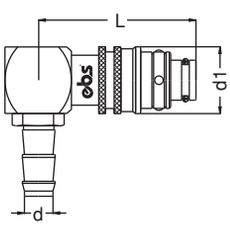
Valflsiz / Without Valve Sipariş No Order No	d	d1	L
600.08 HG 06-45°	1/4” 06mm	20	47.5
600.08 HG 08-45°	5/16” 08mm	20	47.5
600.08 HG 10-45°	3/8” 10mm	20	47.5
600.08 HG 12-45°	15/32” 12mm	20	47.5
600.08 HG 13-45°	1/2” 13mm	20	47.5

Kelepçesiz Hortum Gövde Hose Clamp Socket



Valflsiz / Without Valve Sipariş No Order No	d	d1	L
600.08 FG 10	3/8” 10mm	20	37
600.08 FG 13	1/2” 13mm	20	40

90° Kelepçesiz Hortum Gövde /90° Hose Clamp Socket

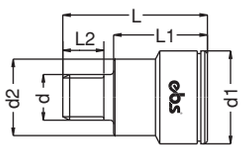


Valflsiz / Without Valve Sipariş No Order No	d	d1	L
600.08 FG 10-90°	3/8” 10mm	20	45.5
600.08 FG 13-90°	1/2” 13mm	20	45.5

600 Serisi Rekorlar

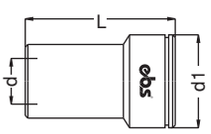


Erkek Uçlar / Male Plugs



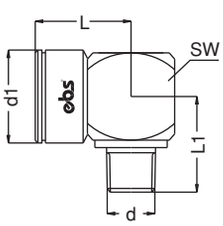
Valflsiz / Without Valve Sipariş No Order No	d	d1	L1	L2	d2	L	SW
600.08 ER 10	BSPT 1/8”	21	21	8	17.5	31	6
600.08 ER 13	BSPT 1/4”	21	21	10	17.5	33	8
600.08 ER 17	BSPT 3/8”	21	11	11	17.5	24	8
600.08 NR 10	NPT 1/8”	21	21	7	17.5	31	1/4”
600.08 NR 13	NPT 1/4”	21	21	10	17.5	33	5/16”
600.08 NR 17	NPT 3/8”	21	11	11	17.5	24	5/16”
600.08 ER M10-1	M10x1.0	21	21	10	17.5	31	6
600.08 ER M10	M10x1.5	21	21	10	17.5	31	6
600.08 ER M12	M14x1.5	21	21	11	17.5	31	8
600.08 ER M14	M12x1.75	21	21	11	17.5	31	8

Dişi Uçlar / Female Plugs



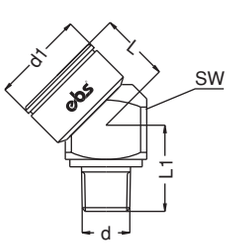
Valflsiz / Without Valve Sipariş No Order No	d	d1	L	SW
600.08 DR 10	BSPT 1/8”	21	39	8
600.08 DR 13	BSPT 1/4”	21	39	8

90° Erkek Uçlar / 90° Male Plugs



Valflsiz / Without Valve Sipariş No Order No	d	d1	L	L1	SW
600.08 ER 10-90°	BSPT 1/8”	21	33	23	20
600.08 ER 13-90°	BSPT 1/4”	21	33	25	20
600.08 ER 17-90°	BSPT 3/8”	21	33	26	20
600.08 NR 13-90°	NPT 1/4”	21	21	27	20

45° Erkek Uçlar / 45° Male Plugs

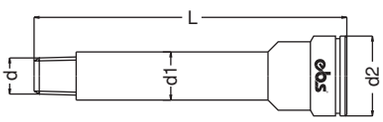


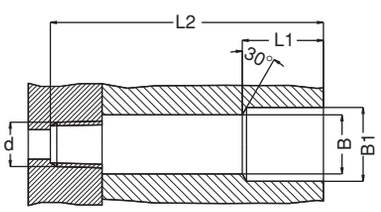
Valflsiz / Without Valve Sipariş No Order No	d	d1	L	L1	SW
600.08 ER 10-45°	BSPT 1/8”	21	33	16.5	20
600.08 ER 13-45°	BSPT 1/4”	21	33	16.5	20
600.08 ER 17-45°	BSPT 3/8”	21	33	16.5	20
600.08 NR 13-45°	NPT 1/4”	21	33	16.5	20

600 Serisi Rekorlar



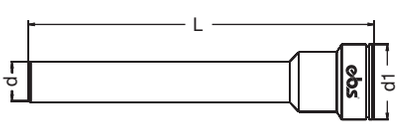
Erkek Uzatma Uçlar / Extension

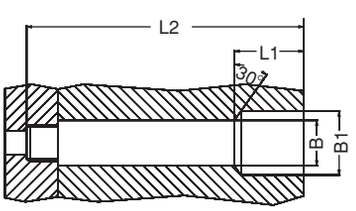




Valflsiz / Without Valve Sipariş No Order No	d	L min/max	L1	L2	d2	B1	B	d1	SW
600.08 ER10-100	BSPT 1/8”	33/100	23	L-5.5	21	22	11	10.2	6
600.08 ER10-150	BSPT 1/8”	100/150	23	L-5.5	21	22	11	10.2	6
600.08 ER10-200	BSPT 1/8”	150/200	23	L-5.5	21	22	11	10.2	6
600.08 ER10-250	BSPT 1/8”	200/250	23	L-5.5	21	22	11	10.2	6
600.08 NR10-100	NPT 1/8”	33/100	23	L-5.5	21	22	11	10.2	1/4”
600.08 NR10-150	NPT 1/8”	100/150	23	L-5.5	21	22	11	10.2	1/4”
600.08 NR10-200	NPT 1/8”	150/200	23	L-5.5	21	22	11	10.2	1/4”
600.08 NR10-250	NPT 1/8”	200/250	23	L-5.5	21	22	11	10.2	1/4”
600.08 ER13-100	BSPT 1/4”	33/100	23	L-7.5	21	22	14	13.5	8
600.08 ER13-150	BSPT 1/4”	100/150	23	L-7.5	21	22	14	13.5	8
600.08 ER13-200	BSPT 1/4”	150/200	23	L-7.5	21	22	14	13.5	8
600.08 ER13-250	BSPT 1/4”	200/250	23	L-7.5	21	22	14	13.5	8
600.08 NR13-100	NPT 1/4”	33/100	23	L-5.5	21	22	14	13.5	1/4”
600.08 NR13-150	NPT 1/4”	100/150	23	L-5.5	21	22	14	13.5	1/4”
600.08 NR13-200	NPT 1/4”	150/200	23	L-5.5	21	22	14	13.5	1/4”
600.08 NR13-250	NPT 1/4”	200/250	23	L-5.5	21	22	14	13.5	1/4”

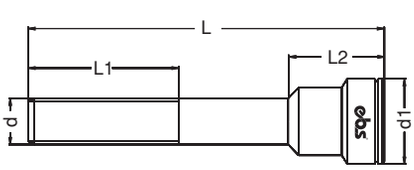
Erkek Uzatma Uçlar / Extension





Valflsiz / Without Valve Sipariş No Order No	d	L	L1	L2	d1	B1	B	SW
600.08 BU 10-50	10.2	50	23	L-5.5	21	22	11	6
600.08 BU 10-100	10.2	100	23	L-5.5	21	22	11	6
600.08 BU 10-150	10.2	150	23	L-5.5	21	22	11	6
600.08 BU 10-200	10.2	200	23	L-5.5	21	22	11	6
600.08 BU 13-50	13.5	50	23	L-7.5	21	22	14	8
600.08 BU 13-100	13.5	100	23	L-7.5	21	22	14	8
600.08 BU 13-150	13.5	150	23	L-7.5	21	22	14	8
600.08 BU 13-200	13.5	200	23	L-7.5	21	22	14	8
600.08 BU 13-250	13.5	250	23	L-7.5	21	22	14	8

Erkek Uzatma Uçlar / Extension

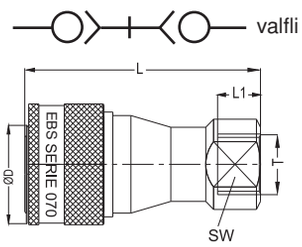


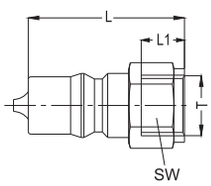
Valflsiz / Without Valve Sipariş No Order No	d	L	L1	L2	d1	SW
600.08 UR 10-50	BSP 1/8”	50	26	21	21	6
600.08 UR 10-100	BSP 1/8”	100	60	21	21	6
600.08 UR 10-150	BSP 1/8”	150	60	21	21	6
600.08 UR 13-50	BSP 1/4”	50	27	21	21	8
600.08 UR 13-100	BSP 1/4”	100	60	21	21	8
600.08 UR 13-150	BSP 1/4”	150	60	21	21	8
600.08 UR 13-200	BSP 1/4”	200	60	21	21	8

Otomatik Su Rekorları



Otomatik rakor gövdeleri



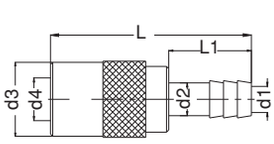


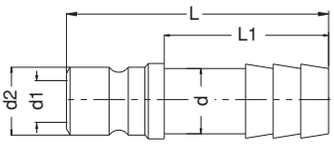
Kod	Bağlantı Ölçüleri	SW	d	L	L1	bar
570 DGV 10	BSP 1/8”	14	25	49	7	190 bar
570 DGV 13	BSP 1/4”	19	29	58	10	190 bar
570 DGV 17	BSP 3/8”	24	35	64	12	190 bar
570 DGV 21	BSP 1/2”	29	44	74	15	190 bar
570 DGV 26	BSP 3/4”	36	53	94	17	120 bar
570 DGV 33	BSP 1“	41	60	106	20	75 bar
570 DGV 42	BSP 1 1/4”	54	73	114	24	40 bar
570 DGV 48	BSP 1 1/2”	58	87	138	24	30 bar
570 DGV 60	BSP 2	77	94	142	27	15 bar

Kod	Bağlantı Ölçüleri	SW	L	L1	bar
570 DRV 10	BSP 1/8”	14	30	7	190 bar
570 DRV 13	BSP 1/4”	19	35	10	190 bar
570 DRV 17	BSP 3/8”	22	39	12	190 bar
570 DRV 21	BSP 1/2”	28	46	15	190 bar
570 DRV 26	BSP 3/4”	36	60	17	120 bar
570 DRV 33	BSP 1“	41	65	20	75 bar
570 DRV 42	BSP 1 1/4”	54	70	24	40 bar
570 DRV 48	BSP 1 1/2”	58	80	24	30 bar
570 DRV 60	BSP 2	77	80	27	15 bar



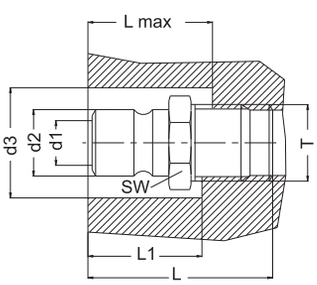
Otomatik rakor gövdeleri



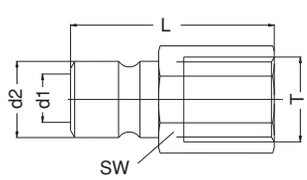


Kod	Bağlantı Ölçüleri	d2	d1	d	L	L1
506 HG 08	6 -1/4”	4	17	9	56	27
506 HG 10	8 - 5/16”	6	17	9	56	27
509 HG 10	9 - 5/14”	8	23	13	68	29
506 HG 13	10 - 3/8”	10	23	13	68	29
516 HG 13	13 - 1/2”	10	32	19	94	36
516 HG 16	19 - 3/4”	16	32	19	94	36

Kod	Bağlantı Ölçüleri	d1	d2	L1	L2
506 HR 08	8 - 5/16”	6	9	37	23
506 HR 09	9 - 5/14”	6	9	37	23
506 HR 10	10 - 3/8”	6	9	37	23
509 HR 10	10 - 3/8”	9	13	45	26
509 HR 13	13 - 1/2”	9	13	45	26
516 HR 13	13 - 1/2”	15	19	27	50
516 HR 19	20 - 3/4”	15	19	27	50



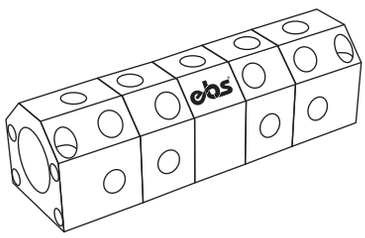
Kod	D	d1	d2	d3	sw	L1	L
506 ER 10	1/8”	6	9	22	13	17	24
506 ER 13	1/4”	6	9	26	16	19	29
509 ER 10	1/8”	9	13	28	14	25	34
509 ER 13	1/4”	9	13	22	14	25	34
509 ER 17	3/8”	9	13	30	17	32	37
516 ER 13	1/4”	9	19	39	21	32	41
516 ER 17	3/8”	9	19	39	21	32	35
516 ER 21	1/2”	13	19	38	22	32	39
516 ER 26	3/4”	16	19	38	27	38	42

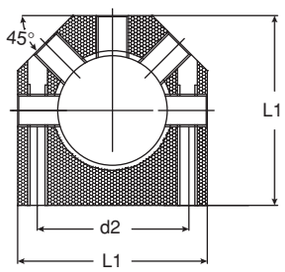


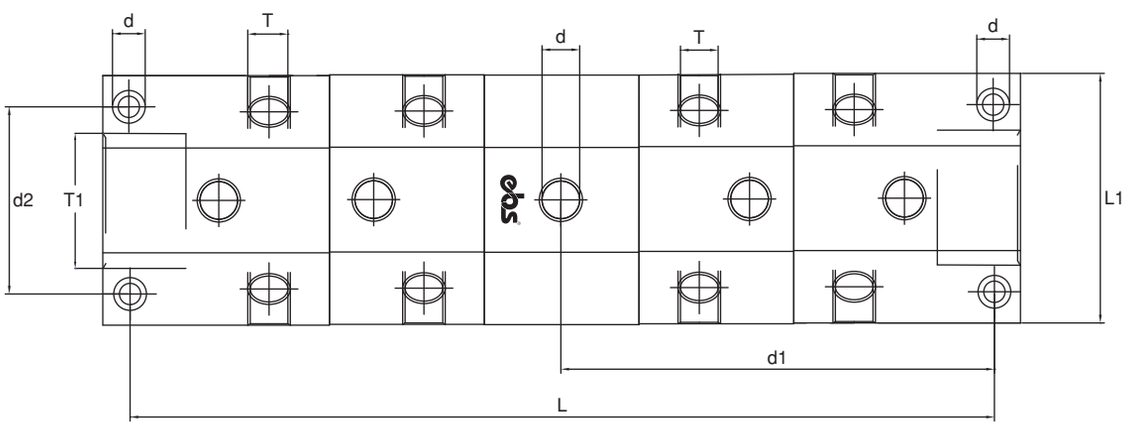
Kod	T	d1	d2	L	sw
506 DR 10	1/8”	6	9	26	13
506 DR 13	1/4”	6	9	32	14
506 DR 17	3/8”	6	9	32	16
509 DR 10	1/8”	9	13	29	19
509 DR 13	1/4”	9	13	37	24
509 DR 17	3/8”	9	13	39	21
509 DR 21	1/2”	9	13	40	24
516 DR 17	3/8”	15	19	32	16
516 DR 21	1/2”	15	19	35	19

Alüminyum Su Kollektörleri Ak 1017 Serisi









Sipariş No / Order No	L	L1	d	d1	d2	T	T1	Giriş. Ad. Circuit	Çıkış Ad. Circuit
1017 AK 13-33-10	172	55	7	86	43,4	1/4	1”	5	5
1017 AK 13-33-20	236	55	7	118	43,4	1/4	1”	10	10
1017 AK 13-33-30	300	55	7	150	43,4	1/4	1”	15	15
1017 AK 13-33-40	364	55	7	182	43,4	1/4	1”	20	20

Sipariş No / Order No	L	L1	d	d1	d2	T	T1	Giriş. Ad. Circuit	Çıkış Ad. Circuit
1017 AK 17-33-10	172	55	7	86	86	3/8	1”	5	5
1017 AK 17-33-20	236	55	7	118	118	3/8	1”	10	10
1017 AK 17-33-30	300	55	7	150	150	3/8	1”	15	15
1017 AK 17-33-40	364	55	7	182	182	3/8	1”	20	20

Sipariş No / Order No	L	L1	d	d1	d2	T	T1	Giriş. Ad. Circuit	Çıkış Ad. Circuit
1017 AK 21-42-10	191	80	9	95,5	62,5	1/2	1”1/4	5	5
1017 AK 21-42-20	267	80	9	133,5	62,5	1/2	1”1/4	10	10
1017 AK 21-42-30	343	80	9	171	62,5	1/2	1”1/4	15	15

Manifold Çoklu Bağlantılar 1009 Serisi





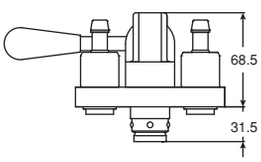


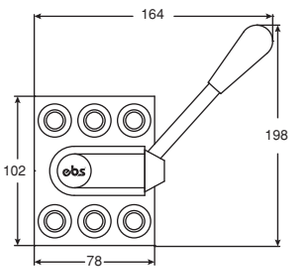
Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 06 HGV 10	10
MT 1009 06 HGV 12	12



6 adet valfli hortum gövde, 3 giriş, 3 çıkış makine plakası
Mobile plate with 6 unit hose tail shut-off coupler (3 circuits)



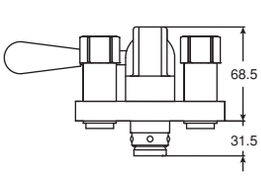


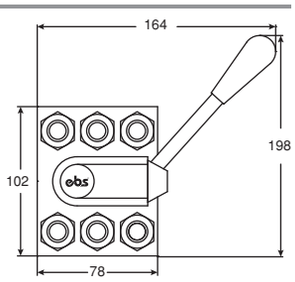
Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 06 DGB 17	BSP 3/8"
MT 1009 06 DGB 17	NPT 3/8"



Dişi valfli gövde, 3 giriş, 3 çıkış makine plakası
Mobile plate with 6 unit Female threaded shut-off coupler (3 circuits)



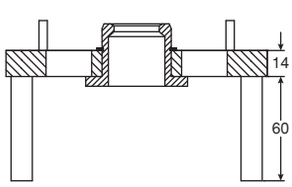


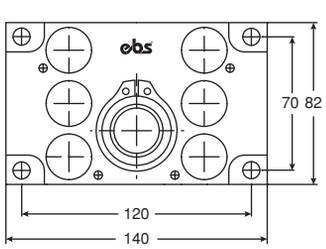
Manifold Plakası / Manifold Plate

Sipariş No / Order No
KT 1009 06



6 adet, 3 giriş, 3 çıkış kalıp plakası
Mould plate for 6 unit Plugs (3 circuits)



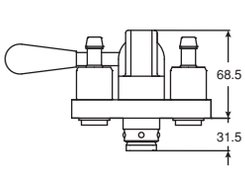


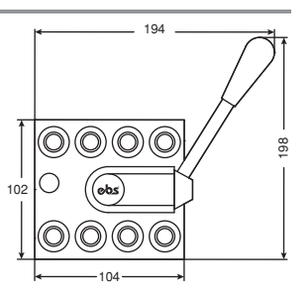
Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 08 HGB 10	10
MT 1009 08 HGB 12	12



8 adet valfli hortum gövde, 4 giriş, 4 çıkış makine plakası
Mobile plate with 8 unit hose tail shut-off coupler (4 circuits)



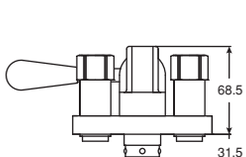


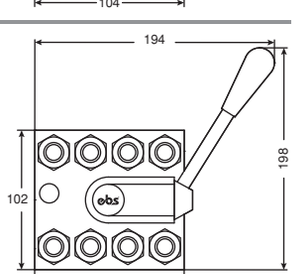
Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 08 DGB 17	BSP 3/8"
MT 1009 08 DGB 17	NPT 3/8"



8 adet Dişi valfli gövde, 4 giriş, 4 çıkış makine plakası
Mobile plate with 8 unit Female threaded shut-off coupler (4 circuits)



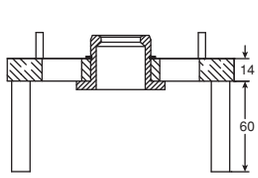


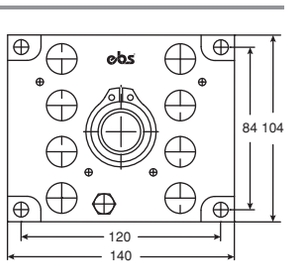
Manifold Plakası / Manifold Plate

Sipariş No / Order No
KT 1009 08



8 adet, 4 giriş, 4 çıkış kalıp plakası
Mould plate for 8 unit Plugs (4 circuits)





Manifold Çoklu Bağlantılar 1009 Serisi



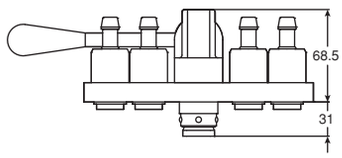


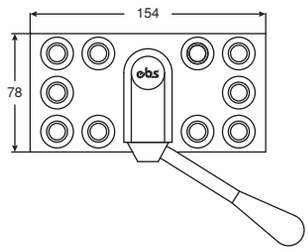


Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 10 HGB 10	10
MT 1009 10 HGB 12	12





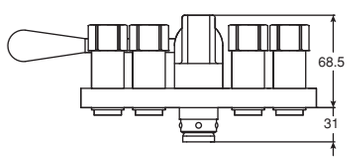


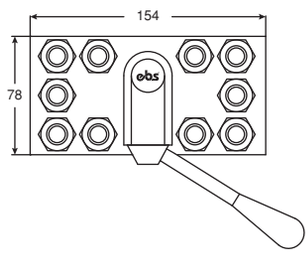
10 adet valfli hortum gövde, 5 giriş, 5 çıkış makine plakası
Mobile plate with 10 unit hose tail shut-off coupler (5 circuits)

Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 10 DGB 17	BSP 3/8"
MT 1009 10 DGB 17	NPT 3/8"





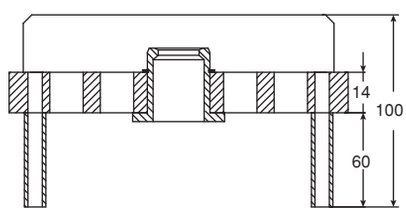


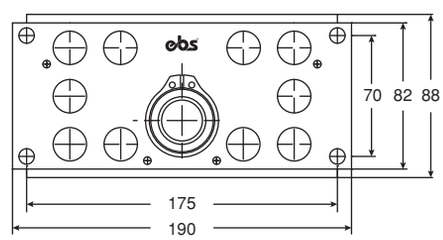
10 adet dişi valfli gövde, 5 giriş, 5 çıkış makine plakası
Mobile plate with 10 unit Female threaded shut-off coupler (5 circuits)

Manifold Plakası / Manifold Plate

Sipariş No / Order No
KT 1009 10





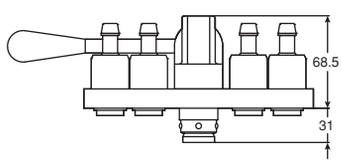


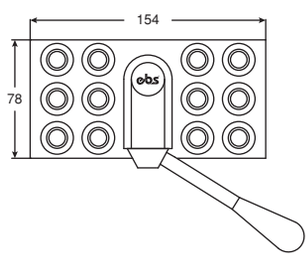
10 adet, 5 giriş, 5 çıkış kalıp plakası
Mould plate for 10 unit Plugs (5 circuits)

Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 12 HGB 10	10
MT 1009 12 HGB 12	12





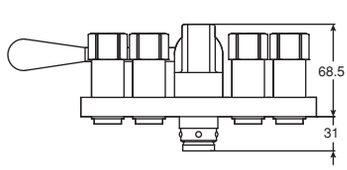


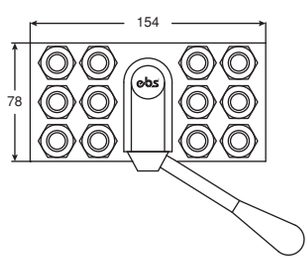
12 adet valfli hortum gövde, 6 giriş, 6 çıkış makine plakası
Mobile plate with 12 unit hose tail shut-off coupler (6 circuits)

Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 12 DGB 17	BSP 3/8"
MT 1009 12 DGB 17	NPT 3/8"





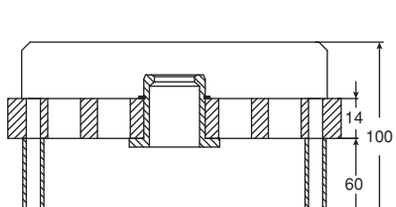


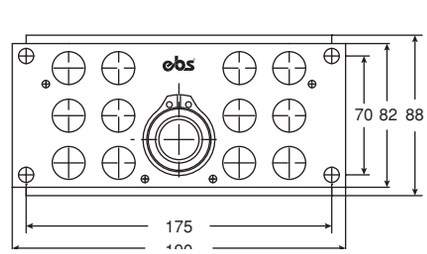
12 adet dişi valfli gövde, 6 giriş, 6 çıkış makine plakası
Mobile plate with 12 unit Female threaded shut-off coupler (6 circuits)

Manifold Plakası / Manifold Plate

Sipariş No / Order No
KT 1009 12







12 adet, 6 giriş, 6 çıkış kalıp plakası
Mould plate for 12 unit Plugs (6 circuits)

Manifold Çoklu Bağlantılar 1009 Serisi





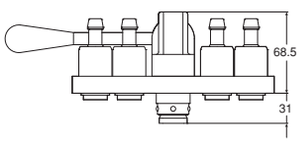


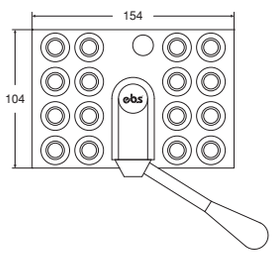
Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 16 HGB 10	10
MT 1009 16 HGB 12	12



16 adet valfli hortum gövde, 8 giriş, 8 çıkış makine plakası
Mobile plate with 16 unit hose tail shut-off coupler (8 circuits)



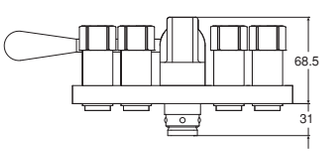


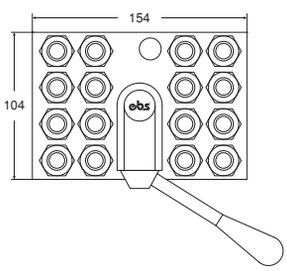
Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 16 DGB 17	BSP 3/8"
MT 1009 16 DGB 17	NPT 3/8"



16 adet dişi valfli gövde, 8 giriş, 8 çıkış makine plakası
Mobile plate with 16 unit Female threaded shut-off coupler (8 circuits)



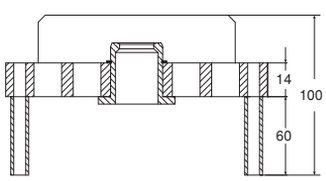


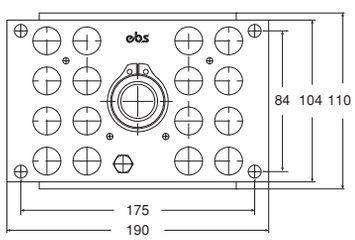
Manifold Plakası / Manifold Plate

Sipariş No / Order No
KT 1009 16



16 adet, 8 giriş, 8 çıkış kalıp plakası
Mould plate for 16 unit Plugs (8 circuits)



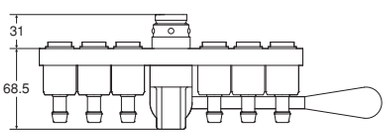


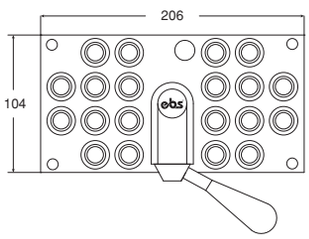
Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 20 HGB 10	10
MT 1009 20 HGB 12	12



20 adet valfli hortum gövde, 10 giriş, 10 çıkış makine plakası
Mobile plate with 20 unit hose tail shut-off coupler (10 circuits)



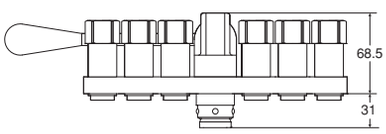


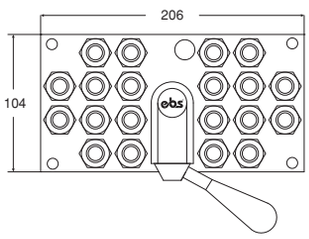
Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 20 DGB 17	BSP 3/8"
MT 1009 20 DGB 17	NPT 3/8"



20 adet dişi valfli gövde, 10 giriş, 10 çıkış makine plakası
Mobile plate with 20 unit Female threaded shut-off coupler (10 circuits)



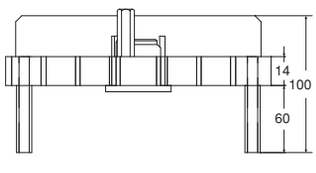


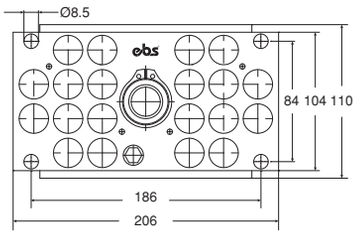
Manifold Plakası / Manifold Plate

Sipariş No / Order No
KT 1009 20



20 adet, 10 giriş, 10 çıkış kalıp plakası
Mould plate for 20 unit Plugs (10 circuits)





Manifold Çoklu Bağlantılar 1009 Serisi





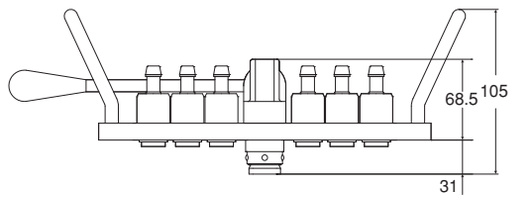


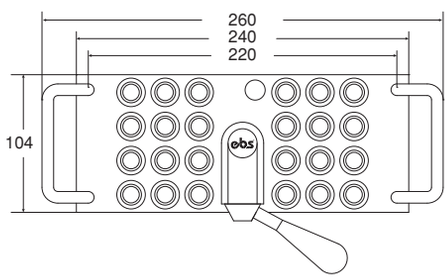
Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 24 HGB 10	10
MT 1009 24 HGB 12	12

12 12

24 adet valfli hortum gövde, 12 giriş,
12 çıkış makine plakası
Mobile plate with 24 unit hose
tail shut-off coupler (10 circuits)



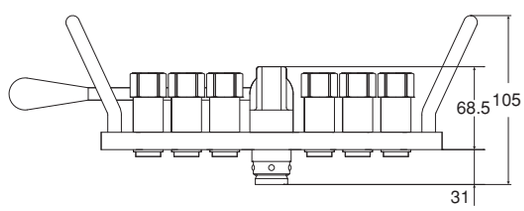


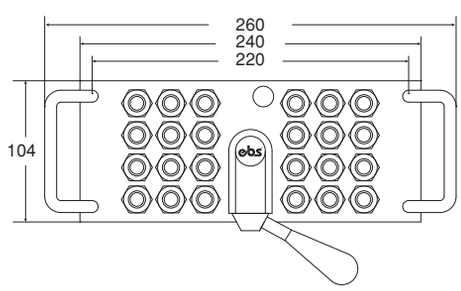
Manifold / Multi Couplings

Valfli / With Valve	d
Sipariş No / Order No	
MT 1009 24 DGB 17	BSP 3/8"
MT 1009 24 DGB 17	NPT 3/8"

12 12

24 adet dişi valfli gövde, 12 giriş,
12 çıkış makine plakası
Mobile plate with 24 unit Female threaded
shut-off coupler (12 circuits)



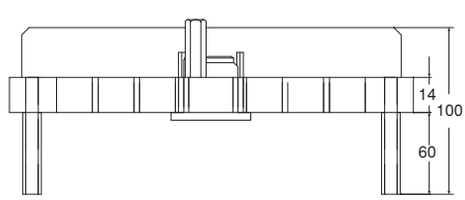


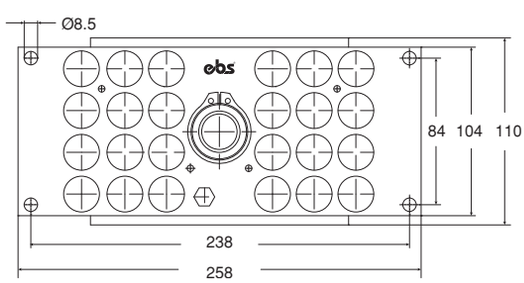
Manifold Plakası / Manifold Plate

Sipariş No / Order No
KT 1009 24

12 12

24 adet, 12 giriş, 12 çıkış kalıp plakası
Mould plate for 24 unit Plugs (12 circuits)





Pnömatik (Plastik) Bağlantı Elemanları

Plastik Rekor



Plastik Nipel



Bağlantı Ölçüleri

4	9	12
5	9,5	14
6	10	15
8	11	16

Plastik TE



Bağlantı Ölçüleri

4	10
6	12
8	16

Rediksiyon TE



Bağlantı Ölçüleri

6-6-8	10-10-8
8-8-6	10-10-12
8-8-10	12-12-10

Rediksiyon



Bağlantı Ölçüleri

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

Döner Dirsek



Bağlantı Ölçüleri

1/8-4	1/4-8	1/2-10
1/8-6	3/8-8	1/4-12
1/4-6	1/4-10	3/8-12
3/8-6	3/8-10	1/2-12
1/8-8		

Plastik Dirsek



Bağlantı Ölçüleri

4	10
6	12
8	16

Orta Bacak Dişli



Bağlantı Ölçüleri

1/8-6	3/8-8
1/4-6	1/4-10
3/8-6	3/8-10
1/8-8	1/4-12
1/4-8	3/8-12

Yan Bacak Dişli TE



Bağlantı Ölçüleri

1/8-6	3/8-8
1/4-6	1/4-10
3/8-6	3/8-10
1/8-8	1/4-12
1/4-8	3/8-12

Plastik YE



Bağlantı Ölçüleri

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

Polietilen Hortum



Bağlantı Ölçüleri

2 x 4	6 x 10	10 x 14
3 x 5	8 x 10	12 x 16
4 x 6	8 x 12	10 x 16
4 x 8	9 x 11	6,5 x 10
5 x 8	10 x 12	9 x 12
6 x 8		

Polyamid 12 Hortum



Bağlantı Ölçüleri

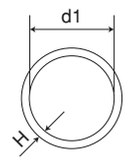
5 x 3,3	8 x 4,4	9,5 x 6
6 x 3	8 x 5,5	9,5 x 7
6 x 4	8 x 6	10 x 8
7 x 5	9 x 6	12 x 9
7,5 x 3,5		

O-Ring



NBR = STANDART

FKM = ViTON



d1 (İç Çap)	H (Kalınlık)											
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
2.0	○	○	○	○	○	○	○	○	○	○	○	○
2.5	○	○	○	○	○	○	○	○	○	○	○	○
3.0	○	○	○	○	○	○	○	○	○	○	○	○
3.5	○	○	○	○	○	○	○	○	○	○	○	○
4.0	○	○	○	○	○	○	○	○	○	○	○	○
4.5	○	○	○	○	○	○	○	○	○	○	○	○
5.0	○	○	○	○	○	○	○	○	○	○	○	○
5.5	○	○	○	○	○	○	○	○	○	○	○	○
6.0	○	○	○	○	○	○	○	○	○	○	○	○
6.5	○	○	○	○	○	○	○	○	○	○	○	○
7.0	○	○	○	○	○	○	○	○	○	○	○	○
7.5	○	○	○	○	○	○	○	○	○	○	○	○
8.0	○	○	○	○	○	○	○	○	○	○	○	○
9.0	○	○	○	○	○	○	○	○	○	○	○	○
10.0	○	○	○	○	○	○	○	○	○	○	○	○
11.0	○	○	○	○	○	○	○	○	○	○	○	○
12.0	○	○	○	○	○	○	○	○	○	○	○	○
13.0	○	○	○	○	○	○	○	○	○	○	○	○
14.0	○	○	○	○	○	○	○	○	○	○	○	○
15.0	○	○	○	○	○	○	○	○	○	○	○	○
16.0	○	○	○	○	○	○	○	○	○	○	○	○
18.0	○	○	○	○	○	○	○	○	○	○	○	○

Sipariş Şekli: d1 x H

d1 (İç Çap)	H (Kalınlık)											
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
20.0	○	○	○	○	○	○	○	○	○	○	○	○
22.0	○	○	○	○	○	○	○	○	○	○	○	○
24.0	○	○	○	○	○	○	○	○	○	○	○	○
26.0	○	○	○	○	○	○	○	○	○	○	○	○
28.0	○	○	○	○	○	○	○	○	○	○	○	○
30.0	○	○	○	○	○	○	○	○	○	○	○	○
32.0	○	○	○	○	○	○	○	○	○	○	○	○
34.0	○	○	○	○	○	○	○	○	○	○	○	○
36.0	○	○	○	○	○	○	○	○	○	○	○	○
40.0	○	○	○	○	○	○	○	○	○	○	○	○
45.0	○	○	○	○	○	○	○	○	○	○	○	○
50.0	○	○	○	○	○	○	○	○	○	○	○	○
60.0	○	○	○	○	○	○	○	○	○	○	○	○

ŞABLONDAKİ ÖLÇÜLER DEĞİŞİKLİK GÖSTEREBİLİR. SİPARİŞLERİNİZ İÇİN FİRMAMIZLA İRTİBATA GEÇİNİZ.

Neodyum Mıknatıslar









Çeşitli ölçüler için firmamızla irtibata geçiniz.

Yuvarlak	
Ø D mm	H mm (Yükseklik)
2	1
3	1.5
3	3
3	6
4	2
4	4
5	1.5
6	3
8	2
8	4
10	3
10	5
11.5	1.6
12	1.5
15	2.5
18	3
20	5
25	5
28	10
30	2

Halka		
Ø D mm	D1 mm (İç Çap)	H mm (Yükseklik)
13	5	2
15	5	5
18	5	2
18	6	10
25	5	10
25	6	10
28	6	10
30	9	10
40	22	8
40	24	6
44	25	7
50	30	7
60	32	10
70	32	10

Dikdörtgen		
L mm	W mm	H mm
10	5	1.5
10	10	3
15	10	3
15	10	5
15	15	2
20	10	2
25	10	10
25	25	5
30	20	5
35	25	10
35	28	10
40	20	5
40	20	10
40	25	10

ŞABLONDAKİ ÖLÇÜLER DEĞİŞİKLİK GÖSTEREBİLİR. SİPARİŞLERİNİZ İÇİN FİRMAMIZLA İRTİBATA GEÇİNİZ.

VEFA
KALIP MARKET
ve KALIP SETLERİ

ÜRÜN GRUBU

04

Kalıp Parlatma Ekipmanları

Bu bölümde

01 Elmas pasta ve taşlar

02 Keçe, zımpara ve fırçalar

03 Parlatma makineleri

Teknik not

Ölçü ve stok bilgileri sipariş öncesinde teklif üzerinde teyit edilir.

Elmas Pastalar



Standart	Mikron	Zerrecik	İşlevi
0.5	1 - 0	28.000	Son Parlatma
1	2 - 1	14.000	Son Parlatma
3	3 - 2	8.000	Son Parlatma
6	5 - 3	3.000	Ön ve Son Parlatma
9	7 - 5	1.800	Ön Parlatma
15	10 - 7	1.200	Ön Parlatma ve Lepleme
30	14 - 10	800	Lepleme ve Talaş Kaldırma
45	28 - 20	600	Talaş Kaldırma
60	40 - 28	400	Talaş Kaldırma

Fiber Seramik Parlatma Taşları



Renk	Kum	1 x 4 x 100	1 x 6 x 100	1 x 10 x 100	Ø3 x 100
	180	●	●	●	●
	250	●	●	●	●
	280	●	●	●	●
	360	●	●	●	●
	400	●	●	●	●
	700	●	●	●	●
	1000	●	●	●	●
	1200	●	●	●	●

Seramik Gaz Taşı Tutucuları



El Kullanımı için



Makina Kullanımı için

Kalıp Parlatma Gaz Taşları



Gaz Taşı Sıvısı



Kum	3 x 6	3 x 13	6 x 13	6 x 25	6 x 6	10 x 10
120	●	●	●	●	●	●
220	●	●	●	●	●	●
320	●	●	●	●	●	●
400	●	●	●	●	●	●
600	●	●	●	●	●	●
800	●	●	●	●	●	●
1000	●	●	●	●	●	●
1200	●	●	●	●	●	●

El Kullanımı için
Gaz Taşı Tutucusu



Kombine Yağ Taşları



Ölçü	EKR / EKDR	SC / SCG
100 x 25 x 16	●	●
125 x 40 x 20	●	●
150 x 50 x 25	●	●
200 x 50 x 25	●	●

Kalıp Parlatma Keçeleri



Parlatma Lastikleri

Silindir Parlatma Lastikleri Ø 6.35 x 25 mm



Değersiz Alaşımlar ve Değerli Metal Dökümlerin Düzeltilmesi İçin.



Altın ve Değersiz Metal Yüzeylerinin Matlaştırılması İçin



Altın ve Değersiz Metal Yüzeylerinin Yüksek Parlaklıkta Parlatılması İçin

Daire Parlatma Lastikleri Ø 22 x 3.00 mm



Değersiz Alaşımlar ve Değerli Metal Dökümlerin Düzeltilmesi İçin



Altın ve Değersiz Metal Yüzeylerinin Matlaştırılması İçin



Altın ve Değersiz Metal Yüzeylerinin Yüksek Parlaklıkta Parlatılması İçin

Saplı Parlatma Lastikleri Ø 6.35 x 25 mm



Değersiz Alaşımlar ve Değerli Metal Dökümlerin Düzeltilmesi İçin



Altın ve Değersiz Metal Yüzeylerinin Matlaştırılması İçin



Altın ve Değersiz Metal Yüzeylerinin Yüksek Parlaklıkta Parlatılması İçin

Separe Kesme Taşları



Ø 20 x 0.70 mm



Ø 40 x 1.00 mm

Kod	Açıklama
760	2.35 mm dişili somunlu bağl. apr. / kısa
763	3 mm dişili somunlu bağl. apr. / kalın dişli
765	2.35 mm kademesiz ince kafalı bağl. apr.
766	3 mm düz bağlama aparatı
769	3 mm dişli kademesiz bağl. aparatı
770	6 mm bağlama aparatı
771	6 mm pullu bağl. aparatı / kısa



Pembe Saplı Taşlar



Form A Form R							
Kod	256A	308A	410A	510A	612A	816A	1016A	813R
D x L	2.5x6	3x8	4x10	5x10	6x12	8x16	10x16	8x13

Form B Form R Form T Form J Form S Form P																			
Kod	30B	40B	50B	60B	80B	100B	120B	1224R	308T	310T	412T	710T	412J	616J	816J	1016J	609S	612P	815P	1018P
D x L	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 12	12x24	3x8	3x10	4x12	7x10	4x12	6x16	8x16	10x16	6x9	6x12	8x15	10x18

Form K Form E 6 mm Şaft Form A Form B																			
Kod	412K	515K	816K	132E	133E	162E	1608A	2008A	2016A	2510A	2520A	3220A	4025A	5030A	1015B	1620B	2020B	2030B	2040B
D x L	4x12	5x15	8x16	13x2	13x3	16x2	16x8	20x8	20x16	25x10	25x20	32x20	40x25	50x30	10x15	16x20	20x20	20x30	20x40

Form B Form C Form D Form F Form E																			
Kod	2525B	2532B	3240B	2508C	3208C	4010C	1220D	2035D	0816F	1320F	2032F	0816E	1230E	1640E	2030E	2040E	2525E	2540E	3240E
D x L	25x25	25x32	32x40	25x8	32x8	40x10	12x20	20x35	8x16	13x20	20x32	8x16	12x30	16x40	20x30	20x40	25x25	25x40	32x40

Spiral Zımpar Lastiği



Ebat	L	Şaft Ø
Ø 6	12	3
Ø 8	12	3
Ø 10	30	6
Ø 12	30	6
Ø 15	30	6
Ø 20	30	6
Ø 25	30	6
Ø 30	30	6
Ø 40	30	6
Ø 50	30	6

Spiro Bant Zımparalar



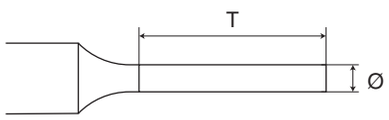
Ebat	L	Kum
Ø 6	12	60 - 120 arası
Ø 8	12	
Ø 10	30	
Ø 12	30	
Ø 15	30	
Ø 20	30	
Ø 25	30	
Ø 30	30	
Ø 40	30	
Ø 50	30	

Elmas Püskürtme Uçlar

Püskürtme elmas spiral freze seti
Şaft Ø3 mm
Şaft Ø2.35 mm

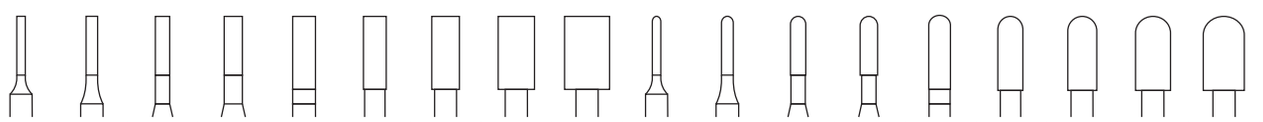


Tekli Püskürtme elmas spiral frezeler
Şaft Ø3 mm
Şaft Ø2.35 mm

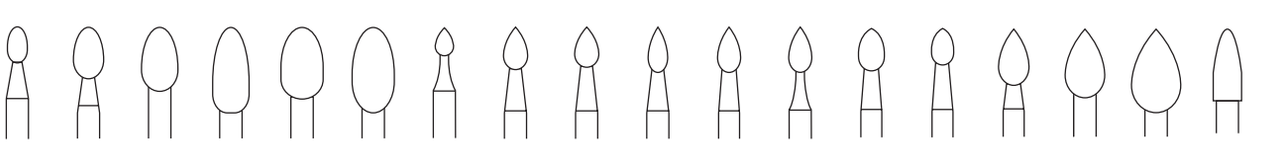




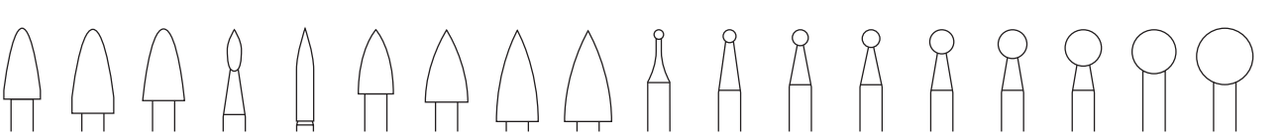




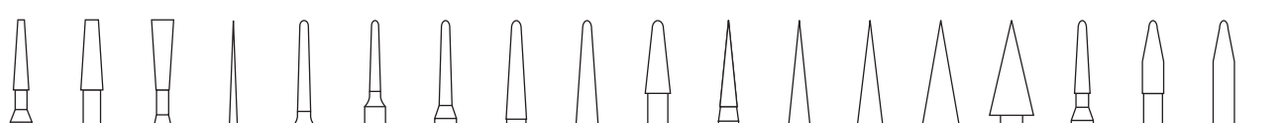
ØD	Ø1	Ø1.5	Ø2	Ø2.5	Ø3	Ø3.5	Ø4	Ø5	Ø6	Ø1	Ø1.5	Ø2	Ø2.5	Ø3	Ø3.5	Ø4	Ø5	Ø6
T	8	8	8	8	10	10	10	10	10	8	8	8	8	8	10	10	10	10
Kod	10A	15A	20A	25A	30A	35A	40A	50A	60A	10C	15C	20C	25C	30C	35C	40C	50C	50C



ØD	Ø3	Ø4	Ø5	Ø5	Ø6	Ø6	Ø2	Ø3	Ø3	Ø3	Ø3	Ø3	Ø3	Ø3	Ø4	Ø5	Ø6	Ø4
T	5	7	9	12	10	12	4	6	5.5	6	6	6	6	5	8	10	12	10
Kod	30Q	40Q	50Q	51Q	60Q	61Q	20S	30S	31S	32S	33S	34S	35S	36S	40S	50S	60S	40F



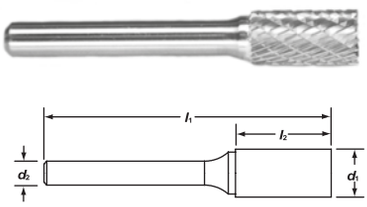
ØD	Ø5	Ø6	Ø6	Ø2	Ø3	Ø4	Ø5	Ø5	Ø6	Ø1	Ø1.5	Ø2	Ø2.5	Ø3	Ø4	Ø5	Ø6	Ø8
T	10	12	10	6	14	9	10	13	13	8	–	–	–	–	–	–	–	–
Kod	50F	60F	61F	20J	30J	40J	50J	51J	60J	10B	15B	20B	25B	30B	40B	50B	60B	80B



ØD	Ø2	Ø3	Ø3	Ø1.2	Ø1.5	Ø1.5	Ø2	Ø3	Ø3.3	Ø3.3	Ø2	Ø3	Ø4	Ø5	Ø6	Ø2	Ø3	Ø3.3
T	10	10	10	16	13	10	12	14	15	10	12	15	15	15	13	10	10	15
Kod	20T	30T	30V	13R	14R	15R	20R	30R	31R	32R	20P	30P	40P	50P	60P	20F	30F	33F

SA - Kalıpçı Elmas Freze

DÜZ ÇAPRAZ ALÜMİNYUM



d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
1,5	6	3	38
2,5	11	3	38
3	14	3	38
6,3	12,7	3	50
3	12,7	6	60
5	16	6	50
6	16	6	50

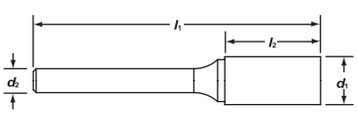
d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
6	12,7	6	162
6	25	6	50
8	19	6	63
8	25	6	64
9,5	19	6	63
9,5	19	6	169
9,5	25	6	69

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
9,5	38	6	70
11	25	6	69
12,7	25	6	69
12,7	25	6	175
16	25	6	69
19	25	6	69
25	25	6	69

SB - Kalıpçı Elmas Freze

DÜZ ÇAPRAZ ALÜMİNYUM





d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
1,5	6	3	38
1,5	6	3	38
2	11	3	63
2,5	11	3	38
2,5	13	3	65
3	14	3	38
3	1	3	63
6,3	12,7	3	43

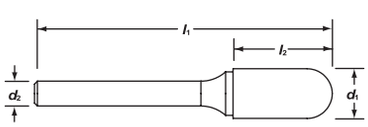
d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
3	12,7	6	60
5	16	6	50
6	16	6	50
6	25	6	50
6	12,7	6	162
8	19	6	63
8	25	6	64
9,5	19	6	63

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
9,5	19	6	169
9,5	25	6	69
9,5	38	6	70
11	25	6	69
12,7	25	6	69
12,7	25	6	175
16	25	6	69
19	25	6	69

SC - Kalıpçı Elmas Freze

DÜZ ÇAPRAZ ALÜMİNYUM





d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
2,5	11	3	38
3	14	3	38
3	14	3	50
3	14	3	75
6,3	12,7	3	50
3	16	6	60
5	16	6	50

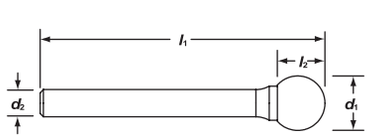
d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
6	16	6	50
6	25	6	50
6	12,7	6	162
8	19	6	63
8	25	6	64
9,5	19	6	63
9,5	19	6	169

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
9,5	25	6	69
11	25	6	69
12,7	25	6	69
12,7	25	6	175
16	25	6	69
19	25	6	69
25	25	6	69

SD - Kalıpçı Elmas Freze

DÜZ ÇAPRAZ ALÜMİNYUM





d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
2,5	2,3	3	38
3	2,5	3	38
3	2,5	3	50
3	2,5	3	75
6,3	5	3	44
3	2	6	50

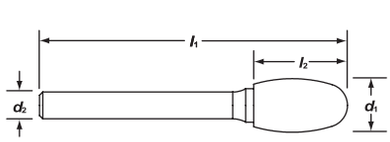
d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
5	4	6	50
6	5	6	50
6	5	6	155
8	6,4	6	50
9,5	8	6	52
9,5	8	6	158

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
11	9,5	6	54
12,7	11	6	55
12,7	11	6	161
16	14	6	58
19	16	6	62
25	21	6	72

SE - Kalıpçı Elmas Freze

DÜZ ÇAPRAZ ALÜMİNYUM



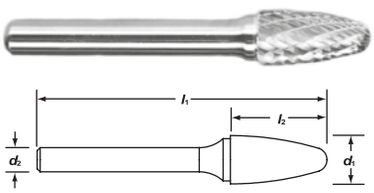


d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
3	5,5	3	38
3	5,5	3	50
3	5,5	3	75
6,3	9,5	3	47
6	9,5	6	50
6	9,5	6	160

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
9,5	16	6	60
9,5	16	6	166
12,7	22	6	66
12,7	22	6	172
16	25	6	69
19	25	6	69

SF - Kalıpçı Elmas Freze

DÜZ ÇAPRAZ ALÜMİNYUM



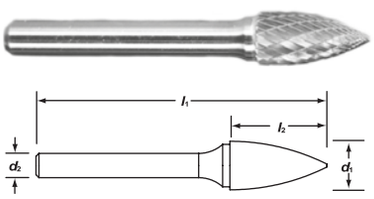
d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
3	6	3	38
3	12,7	3	38
3	12,7	3	50
3	12,7	3	75
6,3	12,7	3	50
6	16	6	50

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
6	16	6	163
9,5	19	6	63
9,51	19	6	169
11	25	6	69
2,7	19	6	63
12,7	25	6	69

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
12,7	25	6	175
16	25	6	69
19	25	6	69
19	32	6	76
19	38	6	82

SG - Kalıpçı Elmas Freze

DÜZ ÇAPRAZ ALÜMİNYUM



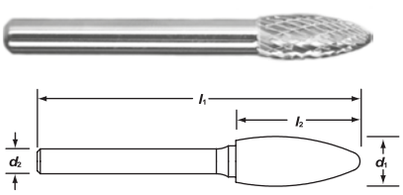
d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
3	6	3	38
3	9,5	3	38
3	12,7	3	38
3	12,7	3	50
3	12,7	3	75

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
6,3	12,7	3	50
6	16	6	50
6	12,7	6	163
8	19	6	63
9,5	19	6	63

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
9,5	19	6	169
12,7	19	6	63
12,7	25	6	69
12,7	25	6	175
16	25	6	69

SH - Kalıpçı Elmas Freze

DÜZ ÇAPRAZ ALÜMİNYUM

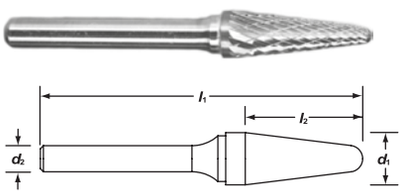


d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
3	6,3	3	38
3	6,3	3	50
3	6,3	3	75
6	9,5	6	50
6	9,5	6	160
8	19	6	63

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
8	19	6	169
12,7	32	6	76
12,7	32	6	182
16	36	6	80
19	41	6	85

SL - Kalıpçı Elmas Freze

DÜZ ÇAPRAZ ALÜMİNYUM



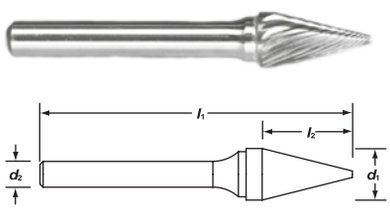
d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
3	9,5	3	38
3	12,7	3	38
6	16	6	50
6	16	6	166

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
8	22	6	69
9,5	27	6	74
9,5	27	6	177
12,7	28	6	76

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
12,7	28	6	178
16	30	6	77
16	33	6	80
19	38	6	85

SM - Kalıpçı Elmas Freze

DÜZ ÇAPRAZ ALÜMİNYUM

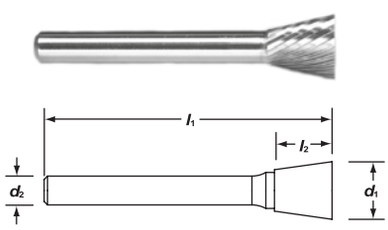


d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
3	8,9	3	38
3	11	3	38
3	11	3	50
3	11	3	75
3	16	3	38
6,3	12,7	3	54

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
6	12,7	6	50
6	19	6	50
6	25	6	50
9,5	16	6	63
12,7	22	6	69
16	25	6	73

SN - Kalıpçı Elmas Freze

DÜZ ÇAPRAZ ALÜMİNYUM



d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
2,5	3	3	38
3	4	3	38
6,3	6	3	44
6	8	6	50

d1 (mm)	l2 (mm)	d2 (mm)	l1 (mm)
9,5	9,5	6	53
12,7	12,7	6	57
16	19	6	63
19	16	6	60

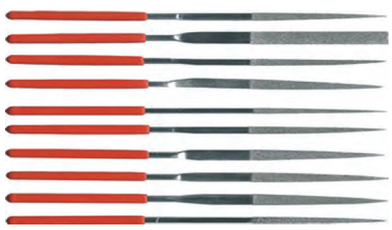
PF 05 Elmas Eğe Seti



PF Serisi Tekli Elmas Eğeler

Kod	Form	Boy (mm)	Elmas boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
PFL-101	▭	140	50	1.5	6	120
PFL-102	⌓	140	50	2	5	120
PFL-103	●	140	50	3	Ø	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 Eğe Seti



PF Serisi Tekli Elmas Eğeler

Kod	Form	Boy (mm)	Elmas boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
PF-101	▭	140	50	1.5	6	120
PF-102	⌓	140	50	2	5	120
PF-103	●	140	50	3	Ø	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 Eğe Seti



Kod	Form	Boy (mm)	Elmas boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
PFL-101	▭	180	50	1.5	5.5	200
PFL-102	⌓	180	50	2	5	200
PFL-103	●	180	50	3	Ø	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	Ø	200
PFL- 01	▭	180	50	1.5	5.5	200
PFL 10	**AHŞAP KUTULU 10'LU TAKIM**					

CF 400 Elmas Eğe Seti



CF Serisi Tekli Elmas Eğeler

Kod	Form (mm)	Boy (mm)	Elmas Boyu (mm)	Kum
CF-402J	2 / 0.4 - 1.5	180	40	150
CF-402F				200
CF-402V				400
CF-404J	4 / 0.5 - 2.0	180	50	150
CF-404F				200
CF-404V				400
CF-406J	6 / 0.5 - 2.0	180	50	150
CF-406F				200
CF-406V				400
CF-408J	8 / 0.5 - 2.0	180	50	150
CF-408F				200
CF-408V				400
CF 50	**PVC AMBALAJLI 12'Lİ TAKIM**			

PTF 10 Elmas Eğe Seti



Kod	Form (mm)	Boy (mm)	Elmas Boyu (mm)	Kum
PTF-12F	0.4~1.6 x 2	130	30	200
PTF-12V				400
PTF-12X				600
PTF-14F	0.4~1.5 x 4	130	30	200
PTF-14V				400
PTF-14X				600
PTF-16F	0.4~1.4 x 6	130	30	200
PTF-16V				400
PTF-16X				600
PF-103X	Ø 3	130	30	600
PTF-10	**PVC AMBALAJLI 10'LU TAKIM**			

IF 05 Elmas Eğe Seti



IF Serisi Tekli Elmas Eğeler

Kod	Form	Boy (mm)	Elmas boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
IF-501	▭	215	80	3.5	11	100
IF-502	◠	215	80	4.4	10.5	100
IF-503	●	215	80	5.0	∅	100
IF-504	■	215	80	6.3	6.3	100
IF-505	▲	215	80	7.7	7.7	100
IF 50	PVC AMBALAJLI 5'Lİ TAKIM					

BF 90 Elmas Eğe Seti



BF Serisi Tekli Elmas Eğeler

Kod	Form	Boy (mm)	Elmas boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
BF-901	▭	140	20	1.3	6	150
BF-902	■	140	20	2.5	2.5	150
BF-903	▭	140	20	1.5	3.5	150
BF-904	▲	140	20	3.5	3.5	150
BF-905	◠	140	20	2	5	150
BF-906	⬭	140	20	1.5	3.5	150
BF-907	⬭	140	20	2	3.5	150
BF-908	●	140	20	3	∅	150
BF-909	◣	140	20	5	1.5	150
BF-910	●	140	20	2.3	∅	150
BF-90	PVC AMBALAJLI 10'LU TAKIM					

BF 60 Elmas Eğe seti



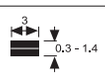
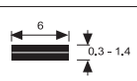
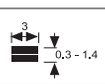
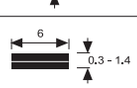
IF Serisi Tekli Elmas Eğeler

Kod	Form	Boy (mm)	Elmas boyu (mm)	Kalınlık (mm)	Genişlik (mm)	Kum
BF-601	▭	140	30	1.3	6	150
BF-602	◠	140	30	2	5	150
BF-603	●	140	30	3	∅	150
BF-604	■	140	30	2.5	2.5	150
BF-605	▲	140	30	5.5	3.5	150
BF 60	PVC AMBALAJLI 5'Lİ TAKIM					

MTF 100 Diprofil Eğe Seti



MTF Serisi Tekli Elmas Eğeler

Kod	Form (mm)	Boy (mm)	Elmas Boyu (mm)	Kum
MTF -13F		72	15	200
MTF -13V				400
MTF -13X				600
MTF -16F		72	15	200
MTF -16V				400
MTF -16X				600
MTF -23F		56	15	200
MTF -23V				400
MTF -23X				600
MTF -26F		56	15	200
MTF -26V				400
MTF -26X				600
MTF 100	PVC AMBALAJLI 12'Lİ TAKIM			

FAS 10 Diprofil Eğe Seti



FAS Serisi Tekli Elmas Eğeler

Kod	Form	Boy (mm)	Elmas boyu (mm)	Genişlik (mm)	Kalınlık (mm)	Kum
FA - 101	▭	90	60	10	1	200 & 400
FA - 102	▭	90	60	8	1	200 & 400
FA - 103	▭	70	40	6	0.8	200 & 400
FA - 104	▭	60	25	4	0.8	200 & 400
FA - 105	▭	45	15	2	0.8	200 & 400
FAS 10	AHŞAP KUTULU 10'LU TAKIM					

HSS Eğeler



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 kenarı düz)	4	-	-	-
	6	150	16	2.7
	8	200	20	3.3
	10	250	25	4.0
	12	300	30	5.0

Saatçi Eğeler

SAATÇİ EĞELER



Eğe Sapları



4'' - 6'' - 8'' - 10'' - 12''



Delikli Elyaf Mop Zımpara



Ürün Çapı
165 x 30 x 25
165 x 30 x 45
165 x 50 x 25
165 x 50 x 45

Elyaf Disk



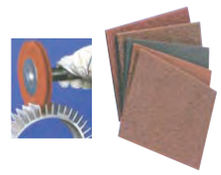
Ürün Çapı
110 x 22

Kamalı Elyaf Mop



Ürün Çapı
100 x 110 x 19

Elyaf Plakalar



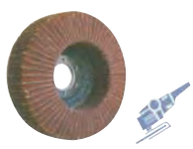
Ürün Çapı
230 x 280 Kaba İşlem
230 x 280 İnce İşlem

Cırtlı Disk Zımpara



Ø 115
Kum : 60 - 80 - 120
150 - 180 - 220 - 360

Elyaf Zımpara Disk



Ürün Çapı
110 x 22

Dairesel Elyaf Mop



Ürün Çapı
165 x 30 x 25

Zımpara Bağlama Diski



Ürün Çapı
115 x 22
180 x 22
115 x M14 Vidalı

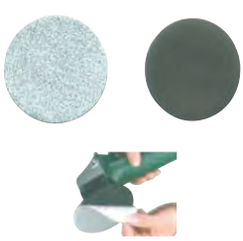
Alüminyum Oksit Delikli Disk Zımparalar



Beyaz Renkli; Ø 125
Kum : 60 - 80 - 120 - 150
180 - 220 - 360

Kahve Renkli; Ø 125
Kum : 60 - 80 - 120 - 150
180 - 220 - 360

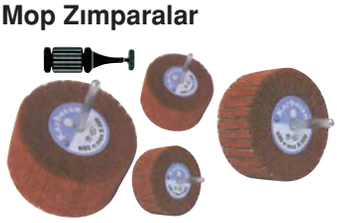
Alüminyum Oksit Disk Zımparalar



Beyaz Renkli; Ø 115 - Ø180
Kum : 60 - 80 - 120 - 150
180 - 220 - 360

Kahve Renkli; Ø 115
Kum : 60 - 80 - 120 - 150
180 - 220 - 360

Mop Zımparalar



Kod	Ürün Çapı	Model
SEM30	Ø 30 x 30 Şaft 6 mm	SAPLI ELYAF ELYAF MOP
SEM40	Ø 40 x 30 Şaft 6 mm	
SEM50	Ø 50 x 30 Şaft 6 mm	
SEM60	Ø 60 x 30 Şaft 6 mm	
SEM80	Ø 80 x 30 Şaft 6 mm	
ZEM30	Ø 30 x 30 Şaft 6 mm	ZIMPARALI ELYAF MOP
ZEM 40	Ø 40 x 30 Şaft 6 mm	
ZEM 50	Ø 50 x 30 Şaft 6 mm	
ZEM60	Ø 60 x 30 Şaft 6 mm	
ZEM80	Ø 80 x 30 Şaft 6 mm	

Kıl Fırçalar



Kod	Ürün Çapı	Tel Çapı	Model
HA-10141	17	0.30	Sarı Telli Kalem Fırça
HA-10139	25		
HA-10137	30		
HA-10145	50		Sarı Telli Çanak Fırça
HA-10149	75		
HA-10127	40 x 6		Sarı Telli Daire Fırça
HA-10131	60 x 8		
HA-10135	100 x 10		

Su Zımparaları



Kum	En (mm)	Boy (cm)
60	200	300
80	200	300
100	200	300
120	200	300
180	200	300
220	200	300
280	200	300
320	200	300
400	200	300
500	200	300
600	200	300
800	200	300
1000	200	300
1200	200	300
2000	200	300

Saplı Mop Zımparalar

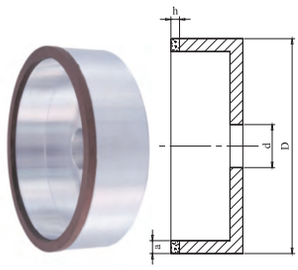


Çap x En x Mil (mm)
20 x 15 x 6
20 x 20 x 6
20 x 25 x 6
25 x 15 x 6
25 x 20 x 6
25 x 30 x 6
30 x 10 x 6
30 x 15 x 6
30 x 20 x 6

Çap x En x Mil (mm)
40 x 10 x 6
40 x 15 x 6
40 x 20 x 6
40 x 30 x 6
50 x 10 x 6
50 x 15 x 6
50 x 20 x 6
50 x 30 x 6
60 x 15 x 6

Çap x En x Mil (mm)
60 x 20 x 6
60 x 30 x 6
60 x 40 x 6
80 x 15 x 6
80 x 20 x 6
80 x 30 x 6
80 x 40 x 6

Elmas Çanak Taş Dik C75



D (mm)	d (mm)	a (mm)	h (mm)
100	20	5	3
125	20	5	3

İnox Kesme Taşı

AA24 S BF80

THINLINE



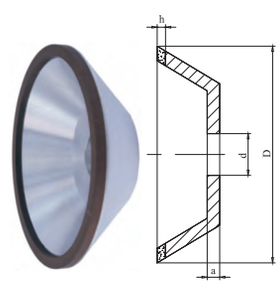
inox



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

• Çelik ve inox malzemelerin kesme işlemine uygundur.

Elmas Çanak Taş Konik C75



D (mm)	d (mm)	a (mm)	h (mm)
75	20	5	3
100	20	5	3
125	32	5	3
150	32	5	3

NK Taşlama Taşları

A24 RS BF80

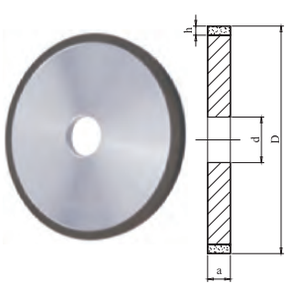




Ebat
100 x 6,4 x 16
115 x 6,4 x 22
125 x 6,4 x 22
180 x 6,4 x 22
180 x 8,0 x 22
180 x 10 x 22
230 x 6,4 x 22
230 x 8,0 x 22
230 x 10 x 22

• Genel amaçlı demir çelik ve metallerin taşlanmasında kullanılır.

Elmas Çanak Taş Disk C75



D (mm)	d (mm)	a (mm)	h (mm)
75	20	6	3
100	20	8	4
125	32	8	4
150	32	8	4
175	32	10	4
200	32	10	4

Flap Disk (Zımpara)





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

Şerit Bez Zımpara Sert - Yumuşak



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

Metal Taşlama Taşları

A36 T BF80





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

• Metal ve döküm malzelemerin kesme işlemine uygundur.

NK Çelik Taşlama Taşları



• Genel amaçlı zımpara taşları yüzey taşlama silindir taşalama 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 Taşlama 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 Düzeltme Elmasları



AÇIKLAMA	
0,50 Karat	1,00 Karat
1,00 Karat	1,50 Karat
0,50 Karat	2,00 Karat
0,75 Karat	3,00 Karat

Taş Motoru



Ölçü
150 mm
175 mm
200 mm
250 mm

Diprofil UG - 300



Devir : 35.000 rpm
Ağırlık : 170 gr
Boyutlar : Ø20 x 160L mm

Diprofil UG - 500



Devir : 60.000 rpm
Ağırlık : 110 gr
Boyutlar : Ø20 x 160L mm

Diprofil UTR - 30



Strok : 0.3 mm
Devir : 30.000 rpm
Ağırlık : 220 gr
Boyutlar : Ø28 x 200L mm

Diprofil UTR - 70



Strok : 0.7 mm
Devir : 28.000 rpm
Ağırlık : 220 gr
Boyutlar : Ø28 x 200L mm

Diprofil NAK - 90



Devir : 23.500 rpm
Pens Çapı : 30 mm

Diprofil NAK - 45



Devir : 23.500 rpm
Pens Çapı : 30 mm

Elektrikli Motorlar ve Aksesuarları





Spiral Kamçı



Motor Askı Kolu



(BM 23 A)



(BM 25 A)

Kod	Güç	Devir/dk.	V
BM 21 A	125 W	15000	220 V
BM 23 A	200 W	25000	220 V
BM 24 A	500 W	22500	220 V
BM 25 A	500 W	25000	220 V
BM 26 A	275 W	25000	220 V

Havalı Kalıpçı Taşlama

Professionel



Güçlü ve yüksek devirli.

- Üzeri kompozit kaplı alüminyum gövde,
- Elde kaymayı önleyen kaplama

Kullanım Alanları

Küçük çaplı kalıp parlatma ve taşlama işlerinde, araçların lastik onarımlarında.

Ürün Kodu - Product code	DG-6Y
Gövde Materyali - Housing material	Aluminium
Uç Kapasitesi - Collect size	6 mm
Mekanizma - Mechanism	Standart
Boşta Devir - Free Speed	20000 rpm
Güç - Power	0.43 hp
Uzunluk - Length	165 mm
Ağırlık - Weight	0.55 kg
Çalışma Basıncı - Recommended air pressure	6.3 bar
Minimum Hortum Ölçüsü - Minimum hose size	8 mm
Hava Tüketimi - Air consumption	113 l/min.

Havalı Kalıpçı Taşlama (Uzun)

Professionel



Yüksek Devirli uzun tip kalıpçı taşlama makinası

- Üzeri kompozit kaplı alüminyum gövde,
- Elde kaymayı önleyen kaplama,
- Zor erişilen yerlere uygun uzun yapı.

Kullanım Alanları

Küçük çaplı kalıp parlatma ve taşlama işlerinde, araçların lastik onarımlarında.

Ürün Kodu - Product code	DG-6L
Gövde Materyali - Housing material	Aluminium
Uç Kapasitesi - Collect size	6 mm
Mekanizma - Mechanism	Standart
Boşta Devir - Free Speed	21000 rpm
Güç - Power	0.43 hp
Uzunluk - Length	280 mm
Ağırlık - Weight	0.80 kg
Çalışma Basıncı - Recommended air pressure	6.3 bar
Minimum Hortum Ölçüsü - Minimum hose size	8 mm
Hava Tüketimi - Air consumption	85 l/min.

Havalı Kalıpçı Taşlama (90°)

Professionel



Açılı kalıpçı taşlama makinası

- Üzeri kompozit kaplı alüminyum gövde,
- Elde kaymayı önleyen kaplama
- Zor erişilen yerler için açılı yapı

Kullanım Alanları

Küçük çaplı kalıp parlatma ve taşlama işlerinde.

Ürün Kodu - Product code	DG-690
Gövde Materyali - Housing material	Aluminium
Uç Kapasitesi - Collect size	6 mm
Mekanizma - Mechanism	Standart
Boşta Devir - Free Speed	18000 rpm
Güç - Power	0.43 hp
Uzunluk - Length	178 mm
Ağırlık - Weight	0.80 kg
Çalışma Basıncı - Recommended air pressure	6.3 bar
Minimum Hortum Ölçüsü - Minimum hose size	8 mm
Hava Tüketimi - Air consumption	85 l/min.

Havalı Taşlama (Mini)

Professionel



Hafif ve küçük. Küçük işler için mükemmel

- Üzeri kompozit kaplı alüminyum gövde,
- Elde kaymayı önleyen kaplama

Kullanım Alanları

Mini taşlama işlerinde.

Ürün Kodu - Product code	AG-1M
Gövde Materyali - Housing material	Aluminium
Disk Kapasitesi - Disc capacity	50 mm
Aksesuar Bağlantı Vidası - Accesory bolt	6 mm
Mekanizma - Mechanism	Standart
Boşta Devir - Free Speed	15000 rpm
Güç - Power	0.43 hp
Uzunluk - Length	188 mm
Ağırlık - Weight	0.80 kg
Çalışma Basıncı - Recommended air pressure	6.3 bar
Minimum Hortum Ölçüsü - Minimum hose size	8 mm
Hava Tüketimi - Air consumption	85 l/min.

Mikro Havalı Kalıpçı Taşlama

Professionel



Mikro tip kalıpçı taşlama makinası

- Hafif tip alüminyum gövde.

Kullanım Alanları

Küçük çaplı kalıp parlatma ve taşlama işlerinde

Ürün Kodu - Product code	DG-M
Gövde Materyali - Housing material	Aluminium
Uç Kapasitesi - Collect size	3 mm
Mekanizma - Mechanism	Standart
Boşta Devir - Free Speed	70000 rpm
Uzunluk - Length	134 mm
Ağırlık - Weight	0.20 kg
Çalışma Basıncı - Recommended air pressure	6.3 bar
Minimum Hortum Ölçüsü - Minimum hose size	8 mm
Hava Tüketimi - Air consumption	43 l/min.

Havalı Orbital Zımpara

Professionel



Kolay kullanım, yormayan zımparalama

- Hafif kompozit gövde,
- Yüksek devir,
- Tek el ile kolay kullanım.

Kullanım Alanları

Oto kaporta tamir ve bakım servislerinde, tampon, metal parçalar, fiberglas tekneler, son kat zımparalamalar, ahşap işleri ve genel zımparalama işlerinde.

Ürün Kodu - Product code	S-6G
Gövde Materyali - Housing material	Aluminium
Mekanizma - Mechanism	Standart
Vakum Tipi - Vacuum type	Kendinden- Self
Boşta Devir - Free speed	12000 rpm
Orbital Hareket - Dia orbital	5 mm
Ped Ölçüsü - Pad size	150 mm
Uzunluk - Length	232 mm
Ağırlık - Weight	0.98 kg
Çalışma Basıncı - Recommended air pressure	6.3 bar
Minimum Hortum Ölçüsü - Minimum hose size	10 mm
Hava Tüketimi - Air consumption	57 l/min.

Kalem Tip Cep Raspası

N1 Raspa Ucu
8 mm altıgen alüminyum tutucu. Bütün "N" (Ø2.6 mm) raspa uçları tutulabilir. Raspa uçları kolaylıkla değiştirilebilir. Cebe takılabilir klipslidir.



S10 Raspa Ucu
12 mm altıgen alüminyum tutucu. Bütün "S" raspa uçları tutulabilmektedir(Ø 3.2 mm). Raspa uçlarını değiştirebil mek için tutucunun içindeki siyah kola basıp uçlar çıkartılır.

Çok Amaçlı Raspa

İçeriği: NG-1 tutucu, S10, S20 ve S35 raspa uçları.



Plastik Çapak Alma Bıçağı

Çok Amaçlı Raspa

S Promo Set
İçeriği:NogaGrip1 tutucu, 10 adet S10 raspa.





Çok Amaçlı Raspa Seti
İçeriği: UNI tutucu, 5 adet S10, 5 adet N1 raspa uçları.

Çift Köşeli Kesme



Saçların iki tarafında aynı anda çapak alır. El koruyucu DB tutucu. Raspauçları uzun döndürülebilir. Uzun ömür için, köşeler için sadece bir raspa ucu kullanınız.
Aralık: 0-12mm.
İçeriği: DB tutucu,el koruyucu ve iki adet N80 raspa.

Çapak Alma Raspa Uçları



Açı : 40°,50°,60°,80°
Paket Adedi : 10 ad.

İş Parçası Malzemesi:
Çelik, alüminyum ve plastik
Pirinç ve döküm
İç ve dış çapaklar

Yolluk Kesme Makasları



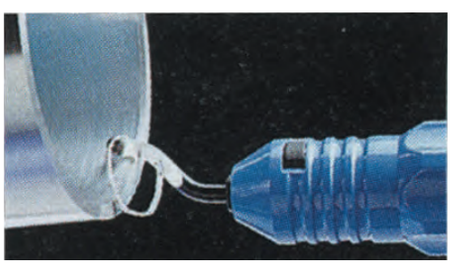
30° Yolluk Kesme Makası

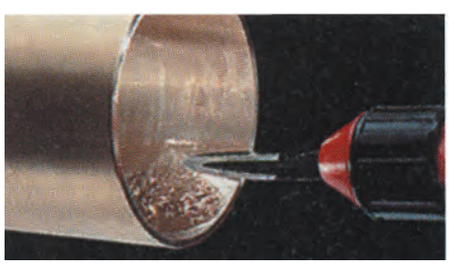


45° Yolluk Kesme Makası



90° Yolluk Kesme Makası







VEFA
KALIP MARKET
ve KALIP SETLERİ

ÜRÜN GRUBU

05

Kalıp Bağlama Ekipmanları

Bu bölümde

01 Bağlama elemanları

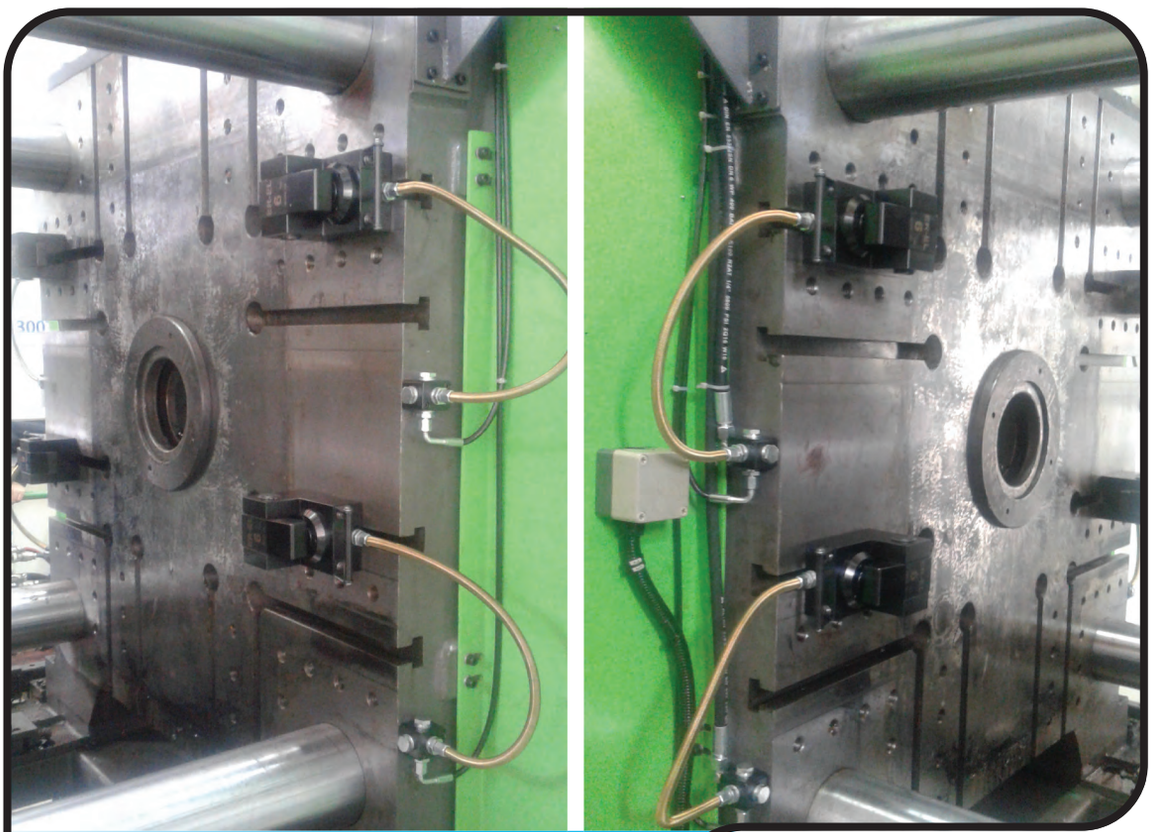
02 Mengene ve tablalar

03 Kaldırma ve taşıma

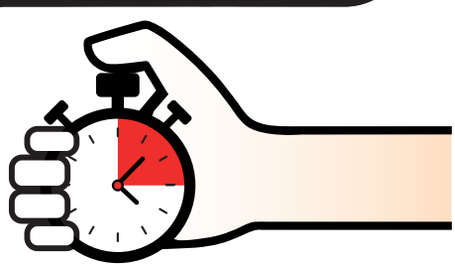
Teknik not

Ölçü ve stok bilgileri sipariş öncesinde teklif üzerinde teyit edilir.

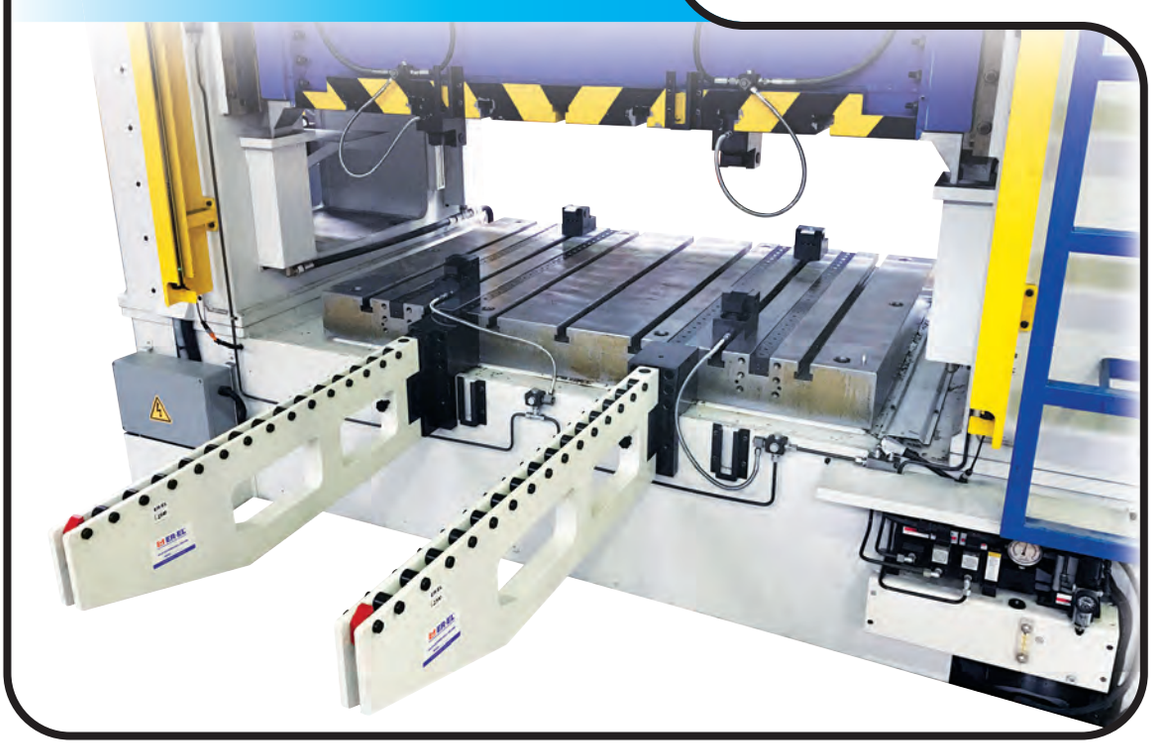
Hızlı Kalıp Değiştirme Sistemi



QUICK **MOLD** CHANGE SYSTEM



QUICK **DIE** CHANGE SYSTEM



Hızlı Kalıp Değiştirme Sistemi

Kalıpların hızlı değiştiği, modellerin çeşitli ve üretim adetlerinin (talep miktarlarının) az olduğu zamanlarda kalıp değiştirme süresini azaltıp iş güvenliğini sağlamaktır. Bu durumda **hızlı kalıp değiştirme sistemine geçmenin tam vaktidir.**

Quick Die Change System

It's an era for making high frequence of die changing with multiple patterns and small quantity. In order to save die changing time and ensure operational safety, it is just in time to apply Quick Die Change System.

Uygulama

- Pres - hidrolik pres - enjeksiyon
- Değişik otomatik makina bağlama sistemi

Application

- Press - hydraulic press - injection
- Different automatic machine clamp system

Elektronik Operasyon Kontrol Paneli Electronic Control Operation Panel

- Makineye bağlanmak için interlock control switch donanımlıdır.
- It is equipped with interlock control switch for connecting to the machine.

- Oluşabilecek herhangi bir operasyon hatasını engelemek için güvenlik kontrol aygıtı ile birlikte tasarlanmıştır.
- It is designed with safety control device which prevents any operation error.

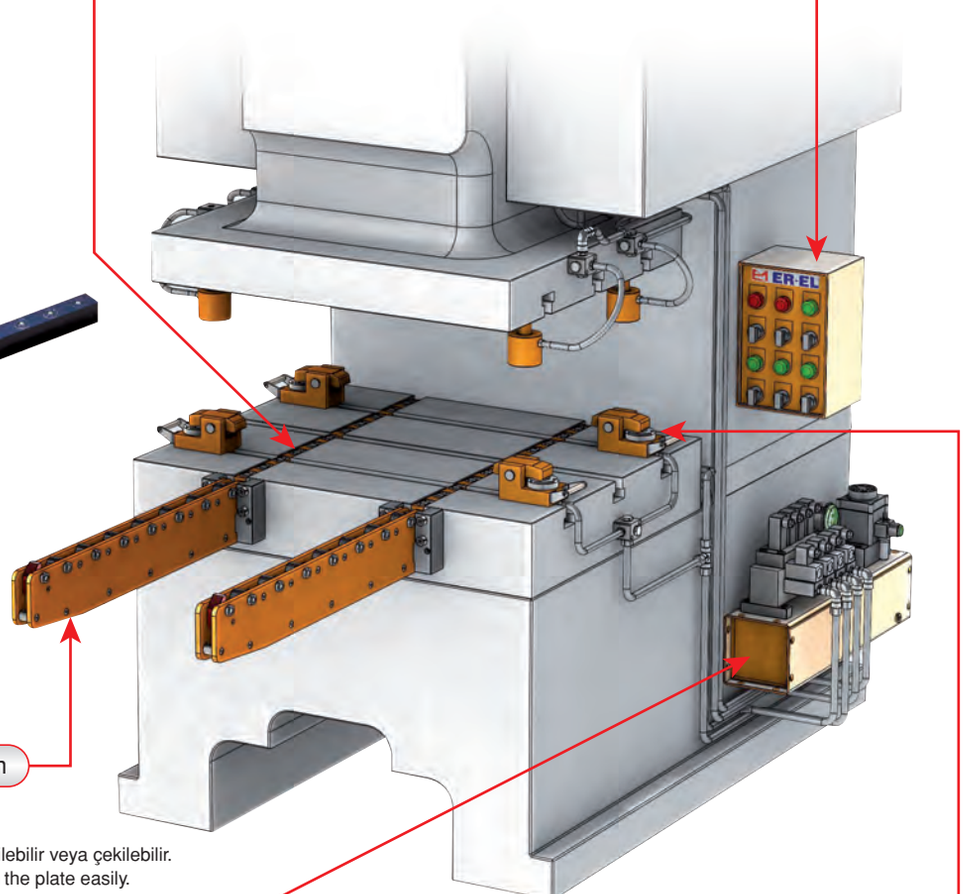
Kalıp Kaldırma / Die Lifter

Model: DL - DB - DLS - DBS

- Hidrolik tipi, yaylı tipi.
- Hydrauijc type, spring type.

- T veya U kanala kurulur.
- Install in the T-slot or U-slot.





Kalıp Kaydırma Kolu / Die Arm

Model: RC - RD - RE/RF - RS

- Tezgah pleyti üzerine kalıp kolayca itilebilir veya çekilebilir.
- Can pull out and push in the die from the plate easily.

- Kaydırma kolunun 4 ayrı modeli vardır.
- There are 4 different models of die arm.

Kalıp Pabucu / Die Clamp

Model : CA - CV - CB - CC

- Kalıbı bağlamak için civata kullanılan geleneksel metodların yerini alır.
- Replacing the traditional method which uses screws to fix dies.

- Ürün T-Kanal pleytli tezgahlarda kullanılır.
- Using T-Slots to lock or fix directly on the plate.



Hava Tahrikli Hidrolik Pompa Ünitesi Air Driven Hydraulic Pump Unit

- Makinelerde basınç denetleme ve interlock özelliği.
- Capable of pressure inspection and interlocking with machines.

- Aygıtlar arası eşit seviyede hareket operasyon güvenliğini sağlar.
- The movements between each devices will be pined down mutually in order to ensure operational safety.

5-Eksen Blok Bağlama

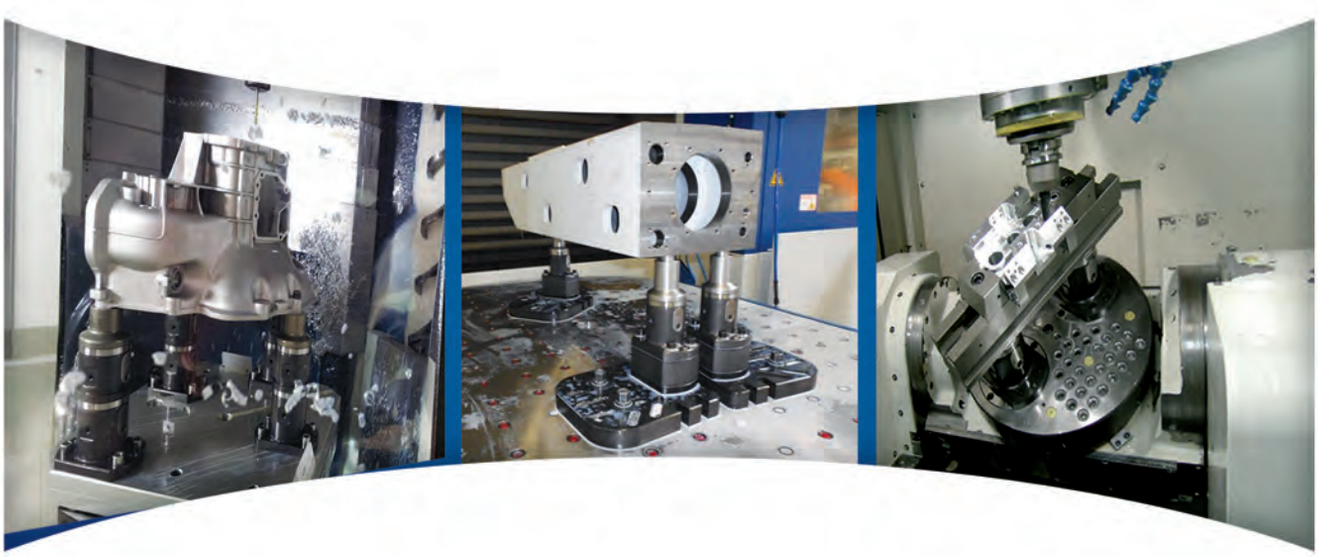
Kombinasyon
• Modüler montaj özelliği ve 5 kenar işlem yapabilme kabiliyetiyle CNC Yatay işleme,CNC Dik işleme, CNC 5 eksen T-Kanallı ve Delikli tezgah tablalarında kullanılır.

Combination
• Its modular assembly and 5 edge ability, it can be used on CNC Horizontal, CNC Vertical CNC 5 Axis machines with T-Slots and rasterized plates.



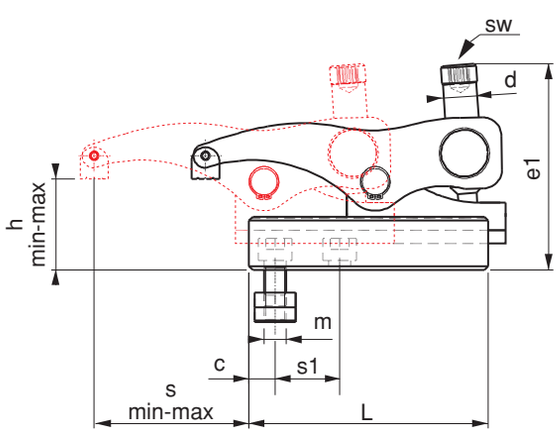
Özellikler
• 5 kenara operasyon kolaylığı
• Yükseltilebilir özellik
• Değişken sabitleme olanakları
• Adetli işlerde tekrarlanabilir hassasiyet
• Yüksek sıkma kuvveti

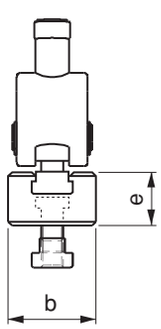
Features
• Ease at 5 axis operations
• Height adjusting feature
• Variable fixing possibility
• Repeating precision at mass production
• High clamping force



Kızaklı Kombine Bağlama Pabucu

Referans Nr.	a	m	h min	h max	s	s1	e1	d	sw		L	e	b	c	Sıkma Kuvveti Clamping Force Kgf	(g)
1120-014 T	14	M12	0	50	12-66	25	100	M14	8		104	35.5	38	13	1600	1700
1120-016 T	16	M12	0	50	12-66	25	100	M14	8		104	35.5	38	13	1600	1700
1120-018 T	18	M12	0	50	12-66	25	100	M14	8		104	35.5	38	13	1600	1700
1130-014 T	14	M12	0	60	15-83	30	113	M18	10		130	39	48	17.5	2000	3040
1130-016 T	16	M12	0	60	15-83	30	113	M18	10		130	39	48	17.5	2000	3055
1130-018 T	18	M12	0	60	15-83	30	113	M18	10		130	39	48	17.5	2000	3085
1130-020 T	20	M12	0	60	15-83	30	113	M18	10		130	39	48	17.5	2000	3135
1130-022 T	22	M12	0	60	15-83	30	113	M18	10		130	39	48	17.5	2000	3150
1150-118 T	18	M16	0	65	18-96	35	125	M20	12		140	43	55	19.5	2500	4410
1150-120 T	20	M16	0	65	18-96	35	125	M20	12		140	43	55	19.5	2500	4460
1150-122 T	22	M16	0	65	18-96	35	125	M20	12		140	43	55	19.5	2500	4515
1150-124 T	24	M16	0	65	18-96	35	125	M20	12		140	43	55	19.5	2500	4620
1150-128 T	28	M16	0	65	18-96	35	125	M20	12		140	43	55	19.5	2500	4725
1160-222 T	22	M20	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	5500	9030
1160-224 T	24	M20	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	5500	9120
1160-228 T	28	M24	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	5500	9180
1160-236 T	36	M24	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	5500	9600







UYGULAMA;
1- Alt kızağı iş parçasına uygun şekle getir sabitle
2- Üst gövdeyi kızağa sür, istenilen pozizyona getir
3- Pabuç imbus civatasıyla iş parçasını sabitle
4- Parça işlenmek için hazır

APPLICATION;
1- Slide cradle is brought to suitable form with the work piece and then it is fixed
2- Upper body is driven to the slide and it is brought to desired position
3- Work piece is fixed with the imbus bolt of the clamp
4- Then the work piece becomes ready to be machined.

Kullanım Alanı
Enjeksiyon makinaları presler, freze tezgahları, matkap tezgahları ve çeşitli sanayi makinaları

Area of Use
Injection Machines, Presses, Milling Machines, Drilling Machines and various Industrial Machines

1

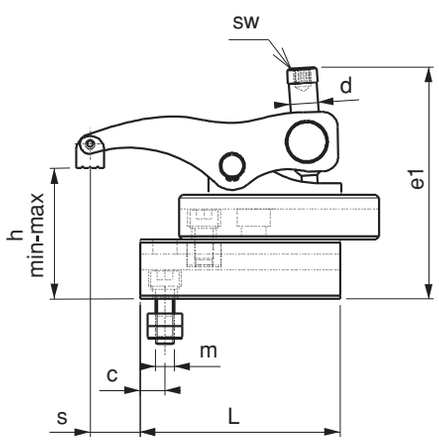

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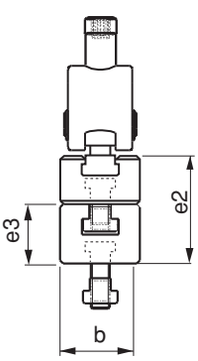

3


4


Kızaklı Kombine Bağlama Pabucu

Referans Nr.	a	m	h min	h max	s	e1	e2	d	sw		L	b	e3	c	(g)
1120-014 DT	14	M12	36	86	12-66	136	71.5	M14	8		104	38	38	13	2540
1120-016 DT	16	M12	36	86	12-66	136	71.5	M14	8		104	38	38	13	2540
1120-018 DT	18	M12	36	86	12-66	136	71.5	M14	8		104	38	38	13	2540
1130-014 DT	14	M12	45	105	15-83	158	83	M18	10		130	48	45	17.5	4750
1130-016 DT	16	M12	45	105	15-83	158	83	M18	10		130	48	45	17.5	4775
1130-018 DT	18	M12	45	105	15-83	158	83	M18	10		130	48	45	17.5	4805
1130-020 DT	20	M12	45	105	15-83	158	83	M18	10		130	48	45	17.5	4855
1130-022 DT	22	M12	45	105	15-83	158	83	M18	10		130	48	45	17.5	4905
1150-118 DT	18	M16	48	113	18-96	173	90	M20	12		140	55	48	19.5	6625
1150-120 DT	20	M16	48	113	18-96	173	90	M20	12		140	55	48	19.5	6690
1150-122 DT	22	M16	48	113	18-96	173	90	M20	12		140	55	48	19.5	6750
1150-124 DT	24	M16	48	113	18-96	173	90	M20	12		140	55	48	19.5	6840
1150-128 DT	28	M16	48	113	18-96	173	90	M20	12		140	55	48	19.5	6960
1160-222 DT	22	M20	79	139	17-92	235	114	M24	12	24	178	74	59	24	13330
1160-224 DT	24	M20	79	139	17-92	235	114	M24	12	24	178	74	59	24	13465
1160-228 DT	28	M24	79	139	17-92	235	114	M24	12	24	178	74	59	24	13580
1160-236 DT	36	M24	79	139	17-92	235	114	M24	12	24	178	74	59	24	13890







UYGULAMA;
1- Alt desteği iş parçasına uygun şekle getir sabitle
2- K.K.S.P. destekler artırılarak istenilen mesafeye ulaşılır
3- K.K.S.P. imbus civata ile T-Pabuca karşılık T-Kanala tak istenilen pozisyona getir.
4- Pabuç imbus civatasıyla iş parçasını sabitle

APPLICATION
1- Bottom support is brought to suitable form with the work piece and then it is fixed.
2- Desired distance is reached by increasing K.K.S.P. supports
3- K.K.S.P. is applied in T-Slot with imbus bolt against T-Nut
4- Work piece is fixed with the imbus bolt of the clamp

1

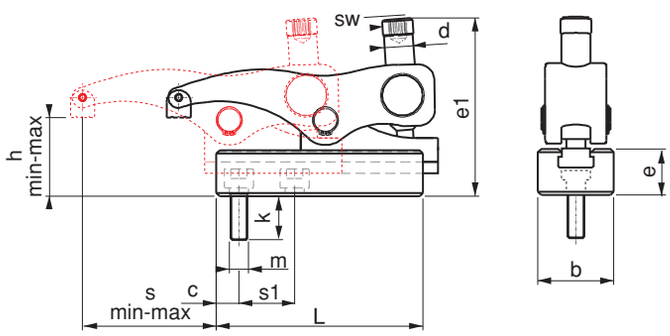
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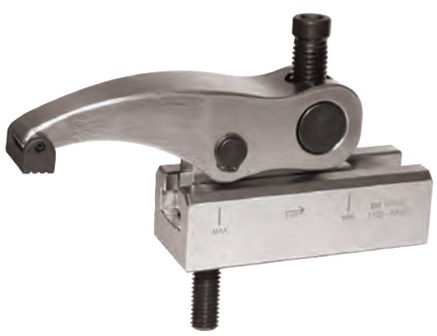
3

4


Kızaklı Kombine Bağlama Pabucu

Referans Nr.	m	h min	h max	s	s1	e1	d	sw	L	e	b	c	k	Sıkma Kuvveti Clamping Force Kgf	(g)
1120-010 M	M10	0	50	12-66	25	100	M14	8	104	35.5	38	13	20	1600	1700
1120-012 M	M12	0	50	12-66	25	100	M14	8	104	35.5	38	13	20	1600	1700
1130-012 M	M12	0	60	15-83	30	113	M18	10	130	39	48	17.5	22	2000	3000
1130-016 M	M16	0	60	15-83	30	113	M18	10	130	39	48	17.5	26	2000	3030
1150-116 M	M16	0	65	18-96	35	125	M20	12	140	43	55	19.5	26	2500	4340
1150-118 M	M18	0	65	18-96	35	125	M20	12	140	43	55	19.5	30	2500	4360
1150-120 M	M20	0	65	18-96	35	125	M20	12	140	43	55	19.5	30	2500	4370
1160-220 M	M20	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	34	5500	8880
1160-222 M	M22	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	38	5500	8900
1160-224 M	M24	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	44	5500	8920
1160-230 M	M30*	20	80	17-92	41.5	175	M24	12	24	178	55	74	24	51	5500	9110





Kızaklı Kombine Bağlama Pabucu Yedek Parçaları

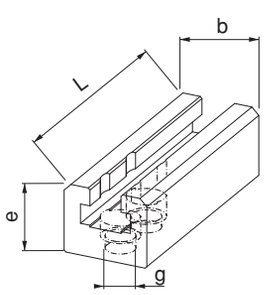
Üst Kızak Grubu

Referans Nr.	a	h min	h max	sw		(g)
1120-0050	14-18	0	50	8	-	860
1130-0060	14-22	0	60	10	-	1680
1150-0062	18-28	0	65	12	-	2565
1160-2080	22-36	20	80	12	24	5050



T-Kızaklı Gövde

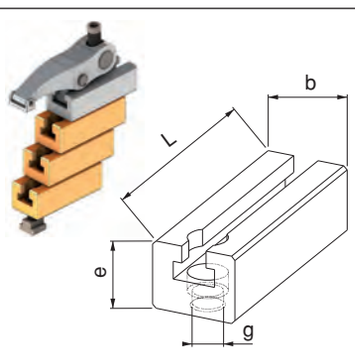
Referans Nr.	g	a	L	b	e	(g)
1120-045	M10 M12	14-18	104	38	35.5	750
1130-047	M12 M16	18-28	130	48	39	1275
1150-053	M16 M18 M20	18-28	140	55	42	1700
1160-074	M20 M22 M24	22-28	178	74	55	3650
1160-075	M30*	36	178	74	55	3650





Alt Destek

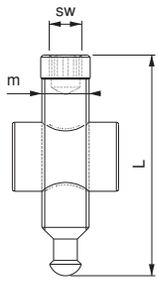
Referans Nr.	g	a	L	b	e	(g)
1120-040	M10 M12	14	104	38	38	820
1130-045	M12 M16	14	130	48	45	1630
1150-048	M16 M18 M20	18	140	55	48	2070
1160-059	M20 M22 M24	28	178	74	55	3980





Pabuç Kaldırma Civata ve Somunu

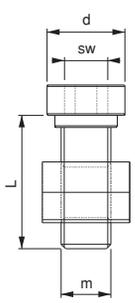




Referans Nr.	m	L	sw		(g)
1120-0714	M14	72	8	-	138
1130-0818	M18	83	10	-	235
1150-0920	M20	96	12	-	360
1160-1024	M24	134	12	24	795

Sabitleme İmbus Civata ve T-Pabuç

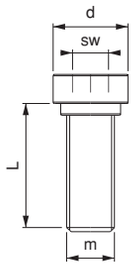




Referans Nr.	a	m	L	d	sw	(g)
1120-512	12	M10	29	16.5	8	48
1120-514*	14	M12	29	16.5	8	54
1130-614*	14	M12	30	20.5	10	80
1130-616	16	M12	30	20.5	10	100
1130-618	18	M12	30	20.5	10	130
1130-620	20	M12	36	20.5	10	180
1130-622	22	M12	36	20.5	10	220
1150-718*	18	M16	34	24.5	12	145
1150-720	20	M16	34	24.5	12	190
1150-722	22	M16	42	24.5	12	260
1150-724	24	M16	42	24.5	12	350
1150-728	28	M16	42	24.5	12	470
1160-822	22	M20	45	34	12	320
1160-824	24	M20	45	34	12	410
1160-826*	28	M24	45	34	12	550
1160-828	28	M24	55	34	12	580
1160-832	32	M24	61	34	12	603
1160-836	36	M24	66	38.5	12	865

Sabitleme İmbus Civatası

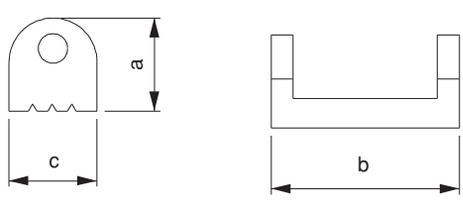




Referans Nr.	m	L	d	sw	(g)
1120-310	M10	29	16.5	8	28
1120-312	M12	29	16.5	8	34
1130-412	M12	30	20.5	10	45
1130-416	M16	34	20.5	10	75
1150-516	M16	34	24.5	12	75
1150-518	M18	38	24.5	12	90
1150-520	M20	38	24.5	12	105
1160-620	M20	45	34	12	170
1160-622	M22	49	34	12	95
1160-624	M24	45	34	12	390
1160-724	M24	55	34	12	405
1160-730	M30*	66	38.5	12	400

Ön Baskı Pabucu

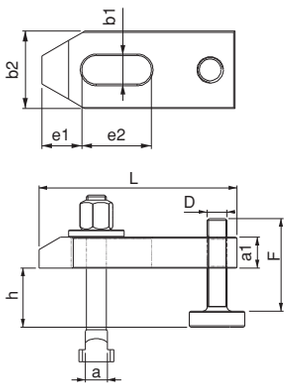




Referans Nr.	a	b	c	(g)
1120-DP	13.5	26.5	12	15
1120-BSP	15.5	26.5	12	18
1120-ESP	18	26.5	12	21
1130-DP	17	32	15	20
1130-BSP	19	32	15	30
1130-ESP	22	32	15	30
1150-DP	19	38	18	40
1150-BSP	21	38	18	40
1150-ESP	25	38	18	50
1160-DP	22	44	22	55
1160-BSP	25	44	22	70
1160-ESP	28	44	22	80

Ayarlanabilir Destek Civatalı Kombine Bağlama Pabucu

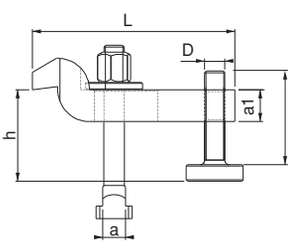


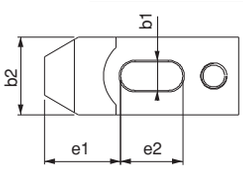


Referans Nr.	a	L	Nr.1330 a1	Nr.1330 b2	e1	e2	b1	Nr.1610	h	Nr.1490 D x F	(g)
1170-1010080	10	80	15	30	15	30	11	M10x10x80	10-35	M10x42	370
1170-1212100	12	100	20	40	21	40	14.5	M12x12x100	12-40	M12x50	740
1170-1212125	12	125	20	40	21	50	14.5	M12x12x160	12-85	M12x95	940
1170-1214100	14	100	20	40	21	40	14.5	M12x14x100	12-40	M12x50	705
1170-1214125	14	125	20	40	21	50	14.5	M12x14x160	12-85	M12x95	965
1170-1616125	16	125	25	50	26	45	18.5	M16x16x125	15-50	M16x62	1115
1170-1616160	16	160	25	50	26	65	18.5	M16x16x160	15-85	M16x97	1870
1170-1618125	18	125	25	50	26	45	18.5	M16x18x125	15-50	M16x62	1540
1170-1618160	18	160	25	50	26	65	18.5	M16x18x160	15-85	M16x97	1900
1170-2020160	20	160	30	60	30	60	22.5	M20x20x160	15-45	M20x62	1675
1170-2020200	20	200	30	60	30	80	22.5	M20x20x200	15-80	M20x97	3295
1170-2022160	22	160	30	60	30	60	22.5	M20x22x160	15-45	M20x62	2730
1170-2022200	22	200	30	60	30	80	22.5	M20x22x200	15-80	M20x97	3340
1170-2424160	24	160	30	70	35	60	26.5	M24x24x160	16-60	M24x81	3465
1170-2424200	24	200	30	70	35	80	26.5	M24x24x200	16-95	M24x116	4660
1170-2428160	28	160	30	70	35	60	26.5	M24x28x160	16-60	M24x81	5560
1170-2428200	28	200	30	70	35	80	26.5	M24x28x200	16-95	M24x116	4755

Ayarlanabilir Destek Civatalı Kombine Bağlama Z-Pabuç



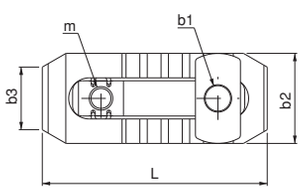


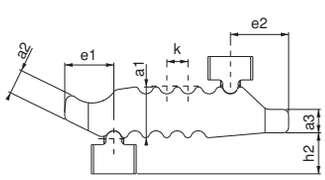


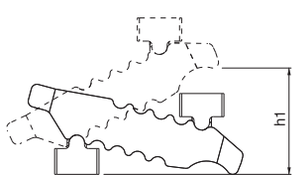
Referans Nr.	a	L	Nr.1330 a1	Nr.1330 b2	e1	e2	b1	Nr.1610	h	Nr.1490 D x F	(g)
1190-1010100	10	100	15	30	32	32	11	M10x10x80	26-50	M10x42	405
1190-1212125	12	125	20	40	40	40	14.5	M12x12x100	33-60	M12x50	870
1190-1214125	14	125	20	40	40	40	14.5	M12x14x100	37-60	M12x50	890
1190-1616160	16	160	25	50	49	50	18.5	M16x16x125	41-75	M16x62	1785
1190-1618160	18	160	25	50	49	50	18.5	M16x18x125	41-75	M16x62	1810
1190-2020200	20	200	30	60	55	70	22.5	M20x20x160	46-75	M20x62	3105
1190-2022200	22	200	30	60	55	70	22.5	M20x22x160	46-75	M20x62	3155
1190-2424200	24	200	35	70	72	60	26	M24x24x200	52-95	M24x81	4695
1190-2428200	28	200	35	70	72	60	26	M24x28x200	52-95	M24x81	4790

Çift Taraflı Bağlama Pabucu



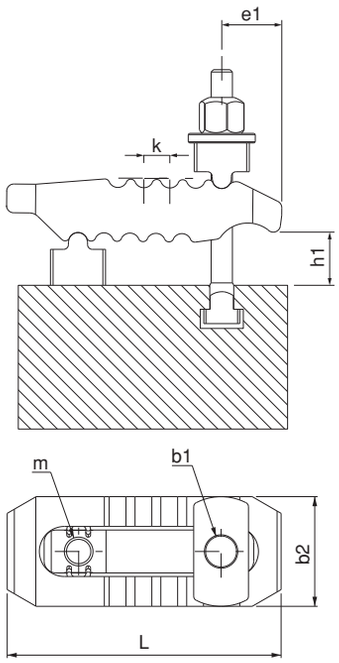






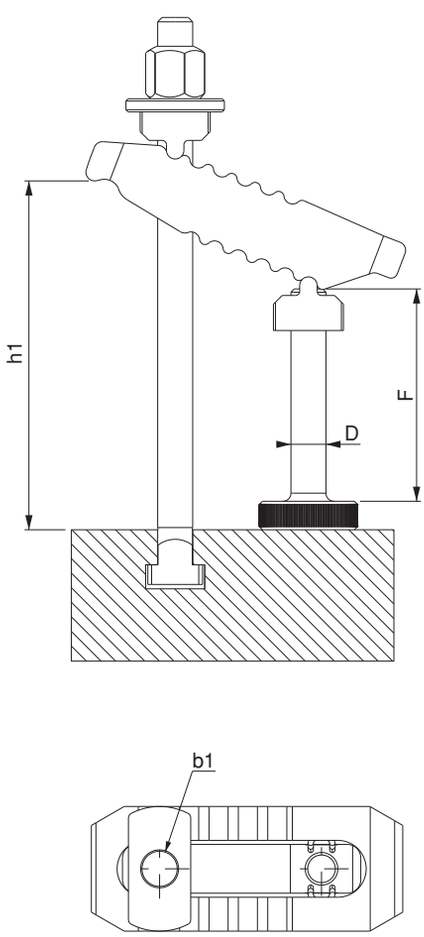
Referans Nr.	a	a1	a2	a3	b2xL	b3	e1	e2	h2	k	b1	m	h1	kgf	(g)
1195-44115	10-12-14	27	12.5	12	44x115	30	25	30	21	11	13	M12	0-55	3000	506
1195-55150	12-14-16-18	36	18	17	55x150	41	35	36	23	12	17	M16	0-70	4000	1382
1195-63187	16-18-20-22	42	25	20	63x187	30	44	44	32.5	14	21	M20	0-80	6000	2241
1195-70235	20-22-24-28	51	36.5	24	70x235	30	60	47	34	17	25	M20	0-100	7500	3550

Kombine Çift Taraflı Bağlama Pabucu



Referans Nr	b1	b2xL	e1	h1	k	m	a	DIN 787	Sıkma Kuvveti Clamping Force kgf	(g)
1195-1010100	13	44x115	25	0-55	11	M12	10	M10x10x100	2500	613
1195-1212125	13	44x115	25	0-55	11	M12	12	M12x12x125	3000	686
1195-1214125	13	44x115	25	0-55	11	M12	14	M12x14x125	3000	705
1195-1212160	17	55x150	35	0-70	12	M16	12	M12x12x160	3500	1591
1195-1214160	17	55x150	35	0-70	12	M16	14	M12x14x160	3500	1610
1195-1616160	17	55x150	35	0-70	12	M16	16	M16x16x160	4000	1798
1195-1618160	17	55x150	35	0-70	12	M16	18	M16x18x160	4000	1818
1195-1616200	21	63x187	44	0-80	14	M20	16	M16x16x200	5500	2715
1195-1618200	21	63x187	44	0-80	14	M20	18	M16x18x200	5500	3018
1195-2020200	21	63x187	44	0-80	14	M20	20	M20x20x200	6000	3018
1195-2022200	21	63x187	44	0-80	14	M20	22	M20x22x200	6000	3060
1195-2020250	25	70x235	60	0-100	17	M20	20	M20x20x250	7000	4368
1195-2022250	25	70x235	60	0-100	17	M20	22	M20x22x250	7000	4410
1195-2424250	25	70x235	60	0-100	17	M20	24	M24x24x250	7500	4895
1195-2428250	25	70x235	60	0-100	17	M20	28	M24x28x250	7500	4966

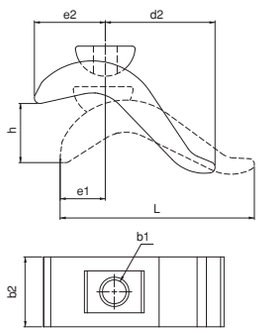
Kombine Çift Taraflı Bağlama Pabucu



Referans Nr	B1	D x F	DIN 787	h1
1195-10101005013	13	M12x50	M10x10x100	15-31
1195-12121605013	13	M12x50	M12x12x160	15-97
1195-12141605013	13	M12x50	M12x14x160	15-97
1195-12122006217	17	M16x62	M12x12x200	18-126
1195-12142006217	17	M16x62	M12x14x200	18-126
1195-16162006217	17	M16x62	M16x16x200	18-126
1195-16182006217	17	M16x62	M16x18x200	18-126
1195-12122009717	17	M16x97	M12x12x200	18-120
1195-12142009717	17	M16x97	M12x14x200	18-120
1195-16162509717	17	M16x97	M16x16x250	39-161
1195-16182509717	17	M16x97	M16x18x250	39-161
1195-16162506221	21	M20x62	M16x16x250	18-129
1195-16182506221	21	M20x62	M16x18x250	18-129
1195-20202506221	21	M20x62	M20x20x250	18-129
1195-20222506221	21	M20x62	M20x22x250	18-129
1195-16162509721	21	M20x97	M16x16x250	18-151
1195-16182509721	21	M20x97	M16x18x250	18-151
1195-20203159721	21	M20x97	M20x20x315	42-184
1195-20223159721	21	M20x97	M20x22x315	42-184
1195-20203156225	25	M20x62	M20x20x315	21-147
1195-20223156225	25	M20x62	M20x22x315	21-147
1195-24243156225	25	M20x62	M24x24x315	21-147
1195-24283156225	25	M20x62	M24x28x315	21-147
1195-20203159725	25	M20x97	M20x20x315	21-182
1195-20223159725	25	M20x97	M20x22x315	21-182
1195-24243159725	25	M20x97	M24x24x315	21-182
1195-24283159725	25	M20x97	M24x28x315	21-182

S-Bağlama Pabucu

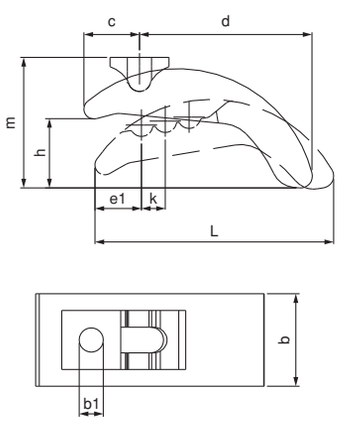




Referans Nr.	a	DIN 787	b1	b2xL	d	e1	e2	h	(g)
1200-50140	-	-	17	50x140	60	30	55	75	900
1200-60175	-	-	21	60x175	80	40	70	85	1600
1200-12125	12	M12x12x125	17	50x140	60	30	55	0-50	1070
1200-14125	14	M12x14x125	17	50x140	60	30	55	0-55	1080
1200-16160	16	M16x16x160	17	50x140	60	30	55	0-75	1270
1200-18160	18	M16x18x160	17	50x140	60	30	55	0-75	1280
1200-20200	20	M20x20x200	21	60x175	80	40	70	0-85	2300
1200-22200	22	M20x22x200	21	60x175	80	40	70	0-85	2370

Kademeli Bağlama Pabucu

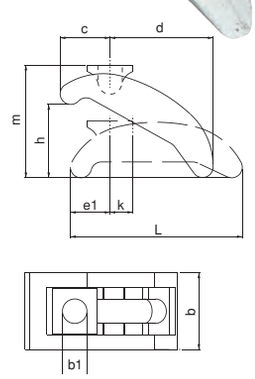




Referans Nr.	b1	a	DIN 787	m	h	b x L	c	d	e1	k x3	(kg)
1205-017	17	16-18	-	93	15-50	65x165	39	128	30	17	2.10
1205-021	21	20-22	-	111	20-65	75x189	43	146	33	19	3.20
1205-025	25	24-28	-	126	20-75	85x213	49	164	39	21	4.50
1205-031	31	36	-	143.5	20-85	95x238	56	182	46	23	6.30
1205-016	17	16	M16x16x125	93	15-50	65x165	39	128	30	17	2.50
1205-018	17	18	M16x18x125	93	15-50	65x165	39	128	30	17	2.50
1205-020	21	20	M20x20x160	111	20-65	75x189	43	146	33	19	3.90
1205-022	21	22	M20x22x160	111	20-65	75x189	43	146	33	19	3.90
1205-024	25	24	M24x24x200	126	20-75	85x213	49	164	39	21	5.70
1205-028	25	28	M24x28x200	126	20-75	85x213	49	164	39	21	5.70
1205-036	31	36	M30x36x250	143.5	20-85	95x238	56	182	46	23	8.80

Kademeli Bağlama Pabucu

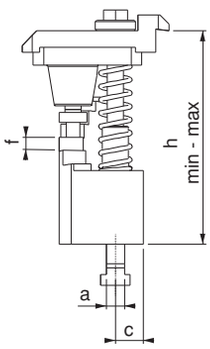


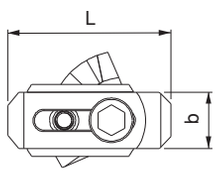


Referans Nr.	b1	a	DIN 787	m	h	b x L	c	d	e1	k x4	(g)
1210-013	13	12-14	-	52	0-40	40x90	28	48	23	14	340
1210-017	18	16-18	-	80	0-60	58x130	38	74	29	18	990
1210-021	22	20-22	-	98	0-75	68x140	46	80	32	20	1450
1210-025	26	24-28	-	110	0-90	78x175	52	100	39	24	2360
1210-012	13	12	M12x12x100	52	0-40	40x90	28	48	23	14	400
1210-014	13	14	M12x14x100	52	0-40	40x90	28	48	23	14	420
1210-016	18	16	M16x16x160	80	0-60	58x130	38	74	29	18	1140
1210-018	18	18	M16x18x160	80	0-60	58x130	38	74	29	18	1145
1210-020	22	20	M20x20x200	98	0-75	68x140	46	80	32	20	1560

Basamaklı Kombine Pabuç







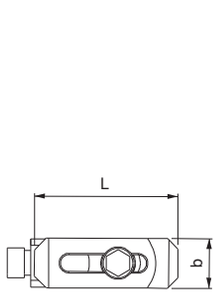
Referans Nr.	a	h min - max	f	c	L	b	(g)
1230-01	14-16-18-20-22	40 - 80	5	16	110	38	1200
1230-02		70 - 125	10	16	110	38	1490
1230-03		120 - 175	10	18	110	38	2700
1230-04		170 - 225	10	23	110	38	4260

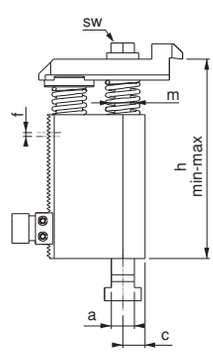


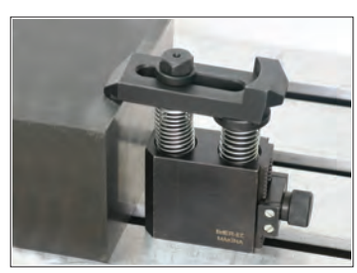
Kombine Bağlama Pabucu



Referans Nr.	a	h min-max	f	c	L	b	m	sw	Sıkma Kuvveti Clamping Force Kgf	Nm	(g)
1250 - 02	14-16-18-20-22	80-137	3	17	110	38	M12	19	2250	85	2015
1250 - 03		125-224	3	17	110	38	M12	19	2250	85	2910
1250 - 04		160-300	3	17	110	38	M12	19	2250	85	3665



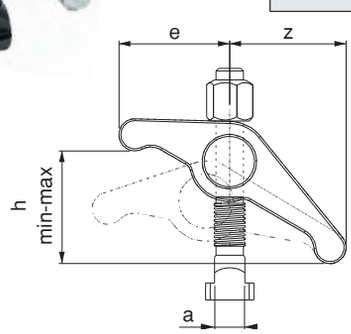


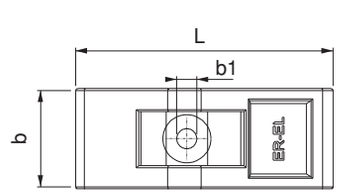


Desteksiz Askı Pabuç



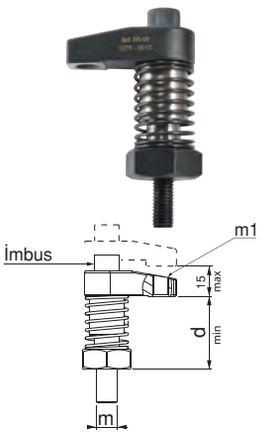
Referans Nr.	a	h min-max	DIN 787	b1	e	z	L	b	(g)
1270-1012	12	0-45	M10x12x125	11	48	61	109	40	660
1270-1214	14	0-45	M12x14x125	13	48	61	109	40	705
1270-1416	16	0-55	M14x16x125	15	57	72	129	50	1190
1270-1618	18	0-55	M16x18x125	17	57	72	129	50	1265



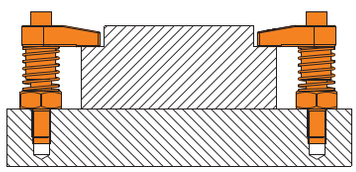




Kombine Burçlu Pabuç



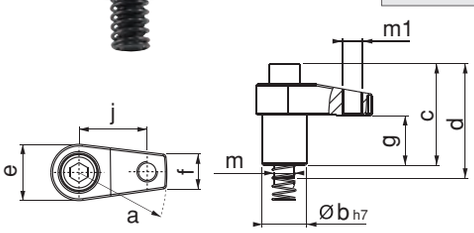
Referans Nr.	a	b	c	d	e	m	sw	m1	İmbus	sıkma kuvveti clamping force Kgf	Tork Değeri Allowable Screw Torque (N-m)	(g)
1275-3012	30	28	16	40	23	M12	30	M8	M10	750	20	300
1275-5012	50	32	20	45	40	M12	36	M12	M12	1000	30	500
1275-5016	50	32	20	45	40	M16	36	M12	M12	1000	30	510
1275-6016	60	40	25	45	45	M16	41	M16	M16	1250	45	750



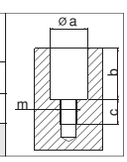
Kombine Burçlu Pabuç

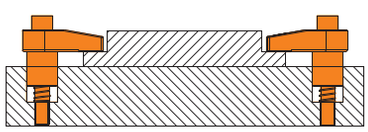


Referans Nr.	a	Ø b h7	c	d	e	f	g	m	m1	j	sıkma kuvveti clamping force Kgf	(g)
1280-3010	30	22	58	80	28	16	30	M10	M8	23	750	220
1280-5012	50	26	70	90	32	20	40	M12	M12	40	1100	400
1280-6016	60	32	74	95	40	25	40	M16	M16	45	1250	610



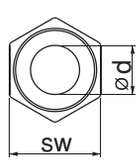
Referans Nr.	a (F7)	b	c	m
1280-3010	22	30	20	M10
1280-5012	26	40	25	M12
1280-6016	32	40	25	M16

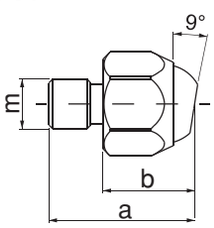




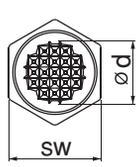
Oynar Başlı Baskı Pabucu

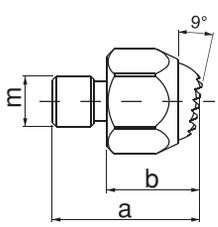










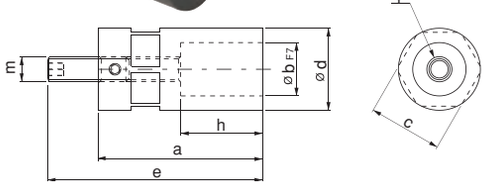


Referans Nr.	a	b	m	d	sw	(g)
1282-0825	25	12	M8	8	14	10
1282-1030	30	17	M10	10	17	30
1282-1235	35	22	M12	12	22	65
1282-1642	42	26	M16	14	27	125

Referans Nr.	a	b	m	d	sw	(g)
1283-0825	25	12	M8	8	14	10
1283-1030	30	17	M10	10	17	30
1283-1235	35	22	M12	12	22	60
1283-1642	42	26	M16	14	27	120

Yükseltme Kovanı



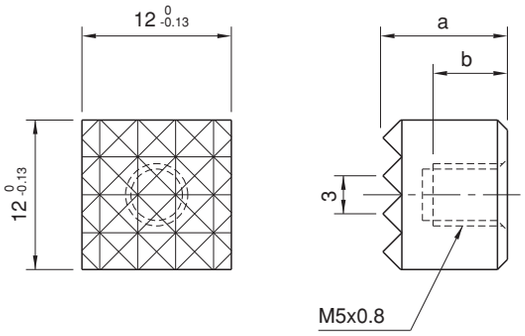


Referans Nr.	a	b F7	c	d	e	f	m	h	(g)
1285-12080	80	26	36	40	110	M12	M12	40	600
1285-12100	100	26	36	40	130	M12	M12	40	795
1285-16080	80	32	46	50	110	M16	M16	40	945
1285-16100	100	32	46	50	130	M16	M16	40	1230

Baskı Pabucu

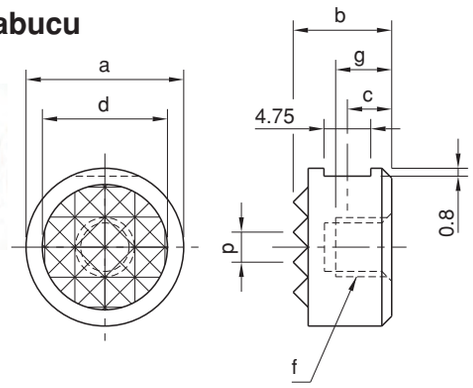


Referans Nr.	a (0 -0.13)	b	(g)
1287-CT9120	12	7.8	13



Baskı Pabucu

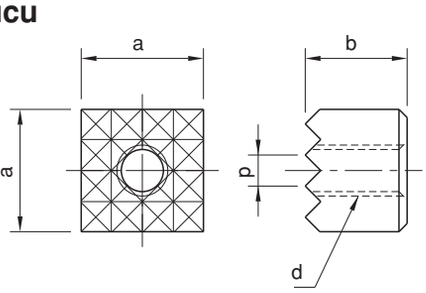




Referans Nr.	a (0 -0.13)	b (0 -0.13)	c	d	f	g	p	(g)
1288-CT102	10	12	6	7.9	M5x0.8	8	2.3	6
1288-CT122	12	12	6	9.5	M5x0.8	8	3	9
1288-CT162	16	12	6	12.7	M6x1	7.8	3	17
1288-CT202	20	12	6	15.9	M6x1	7.8	3	28
1288-CT252	25	12	6	19.1	M6x1	7.8	3	43

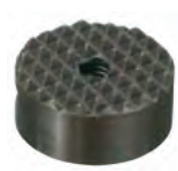
Baskı Pabucu

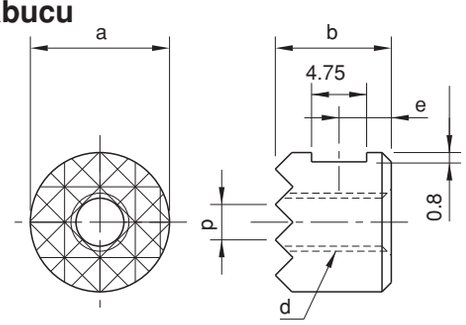




Referans Nr.	a (0 -0.13)	b (0 -0.13)	d	p	(g)
1287-HS9102	10	12	M5x0.8	2.3	7.5
1287-HS9122	12	12	M5x0.8	3	11
1287-HS9160	16	12	M6x1	3	17
1287-HS9202	20	12	M5x0.8	3	33.5
1287-HS9252	25	12	M6x1	3	53

Baskı Pabucu

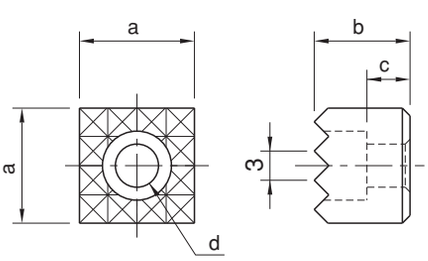




Referans Nr.	a (0 -0.13)	b (0 -0.13)	d	e	p	(g)
1288-HS102	10	12	M5x0.8	6	2.3	6
1288-HS122	12	12	M5x0.8	6	3	9
1288-HS162	16	12	M6x1	6	3	15
1288-HS202	20	12	M6x1	6	3	25
1288-HS252	25	12	M6x1	6	3	40

Baskı Pabucu

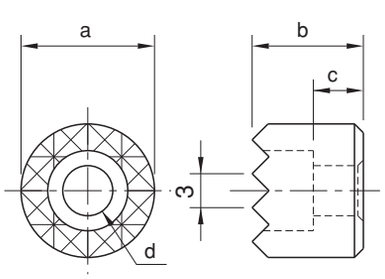




Referans Nr.	a (0 -0.13)	b (0 -0.13)	c	d	(g)
1287-HS9122C	12	12	6.5	M4	10
1287-HS9160C	16	12	4.5	M4	16
1287-HS9202C	20	12	5.5	M5	31
1287-HS9252C	25	12	4.5	M6	49

Baskı Pabucu





Referans Nr.	a (0 -0.13)	b (0 -0.13)	c	d	(g)
1288-HS122C	12	12	6.5	M4	8
1288-HS162C	16	12	6.5	M4	15
1288-HS202C	20	12	6.5	M5	23
1288-HS252C	25	12	6.5	M6	38

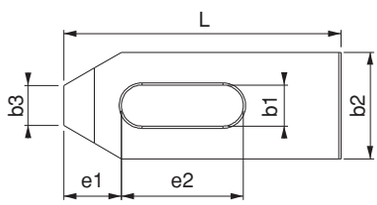
Merdiven Diş Bağlama Pabucu





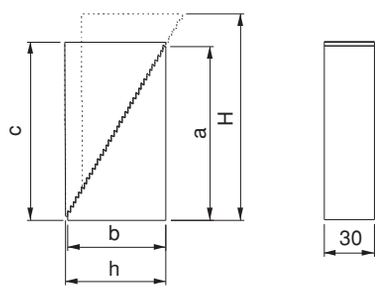
Referans Nr.	L	b1	metrik	whitworth	a	b2	b3	e1	e2	(g)
1290-06050	50	6.6	M6	1/4	10	20	8	10	20	50
1290-06080	80								30	95
1290-08060	60	9	M8	5/16	12	25	10	13	22	100
1290-08100	100								45	170
1290-10080	80	11	M10	3/8	15	30	12	15	30	190
1290-10100	100								45	225
1290-12100	100	14.5	M12-M14	1/2	20	40	14	21	45	435
1290-12125	125								55	580
1290-16125	125	18.5	M16-M18	5/8	25	50	18	26	55	855
1290-16160	160								65	1175

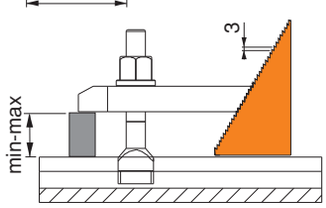




Merdiven Diş Destek



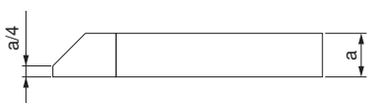


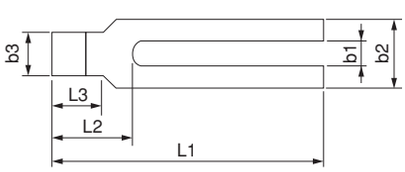


Referans Nr.	h-H	a	b	c	min-max	(g)
1310-01	37-85	57	35	60	0-40	505
1310-02	48-112	73	45	76	0-60	825
1310-03	58-139	90	55	93	0-75	1250
1310-04	66-165	108	64	111	0-90	685

Çatal Pabuç





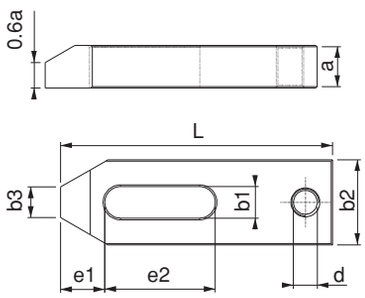


Referans Nr.	b1	L1	metrik	whitworth	a	b2	b3	L2	L3	(g)
1320-08100	9	100	M8	5/16	15	30	16	32	18	240
1320-10125	11	125	M10	3/8	20	30	20	38	24	380
1320-12160	14.5	160	M12-M14	1/2	25	40	24	47	30	800
1320-12200	14.5	200	M12-M14	1/2	25	40	24	47	30	950
1320-16200	18.5	200	M16-M18	5/8	30	50	28	57	36	1500
1320-16250	18.5	250	M16-M18	5/8	30	50	28	57	36	1850
1320-20250	22.5	250	M20-M22	3/4	40	60	35	68	45	2900
1320-20315	22.5	315	M20-M22	3/4	40	60	35	68	45	3600
1320-24250	26	250	M24	1	40	70	43	83	56	3400
1320-24315	26	315	M24	1	40	70	43	83	56	4300
1320-30315	33	315	M30	1 ¼	50	80	50	88	56	6000
1320-30400	33	400	M30	1 ¼	50	80	50	88	56	7300

Destek Delikli Düz Pabuç



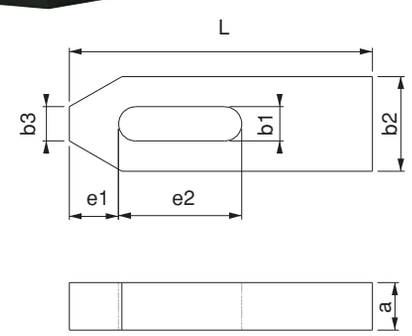




Referans Nr.	L	b1	metrik	whitworth	a	b2	b3	e1	e2	d	(g)
1330-06050	50	6,6	M6	1/4	10	20	8	10	20	M8	50
1330-08060	60	9	M8	5/16	12	25	10	13	22	M8	105
1330-10080	80	11	M10	3/8	15	30	12	15	30	M10	210
1330-12100	100	14.5	M12-M14	1/2	20	40	14	21	40	M12	465
1330-12125	125							21	50		590
1330-16125	125	18.5	M16-M18	5/8	25	50	18	26	45	M16	930
1330-16160	160								65		1200
1330-20160	160	22.5	M20-M22	3/4	30	60	22	30	60	M20	1710
1330-20200	200				30	60	22		80		2170
1330-20250	250				35	70	30		100		3885
1330-24160	160	26	M24	1	30	70	26	35	60	M24	1965
1330-24200	200				35	70	26		80		2920
1330-24250	250				35	70	26		100		3720
1330-24315	315				40	80	35		100		6435
1330-30250	250	33	M30	11/4	40	80	34	45	100	M24	4825
1330-30315	315				50				130		7665
1330-36400	400	43	M36-M42	11/2	58	100	43	100	150	M30	14490

Düz Pabuç

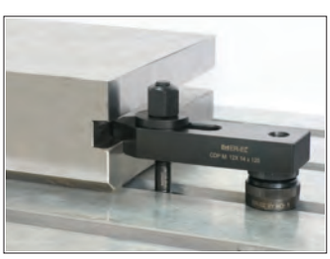




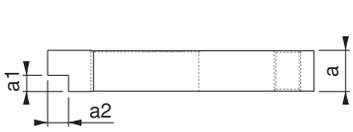
Referans Nr.	L	b1	metrik	whitworth	a	b2	b3	e1	e2	(g)
1350-06050	50	6,6	M6	1/4	10	20	8	10	20	60
1350-08060	60	9	M8	5/16	12	25	10	13	22	110
1350-10080	80	11	M10	3/8	15	30	12	15	30	185
1350-12100	100	14,5	M12-M14	1/2	20	40	14	21	40	480
1350-12125	125							21	50	610
1350-16125	125	18,5	M16-M18	5/8	25	50	18	26	45	980
1350-16160	160								65	1240
1350-20160	160	22,5	M20-M22	3/4	30	60	22	30	60	1795
1350-20200	200								80	2255
1350-24200	200	26	M24	1	30	70	26	35	80	2570
1350-24250	250				35				100	3875
1350-30250	250	33	M30	11/4	40	80	34	45	100	4990
1350-30315	315				50				130	7885
1350-36400	400	43	M36-M42	11/2	60	100	43	100	150	14450

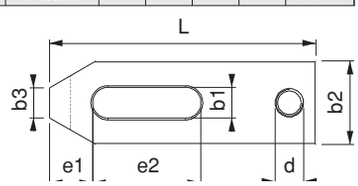
Kademeli Destek Delikli Düz Pabuç





Referans Nr.	L	b1	metrik	whitworth	a	b2	a1xa2	b3	e1	e2	d	(g)
1370-10080	80	11	M10	3/8	15	30	5x8	12	15	30	M10	180
1370-12100	100	14.5	M12-14	1/2	20	40	8x10	14	21	40	M12	410
1370-12125	125									50		590
1370-16125	125	18.5	M16-18	5/8	25	50	10x12.5	18	26	45	M16	910
1370-16160	160									65		1180
1370-20160	160	22.5	M20-22	3/4	30	60	12x15	22	30	60	M20	1575
1370-20200	200									80		2150
1370-24160	160	26	M24	1	30	70	12x15	26	35	60	M24	1800
1370-24200	200				35		14x17			80		2875
1370-24250	250				35		14x17			100		3500

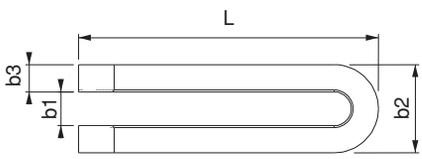


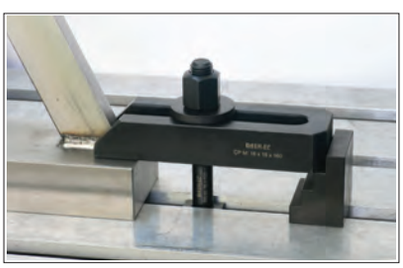


Çatal Pabuç





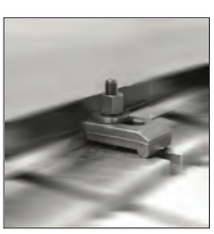




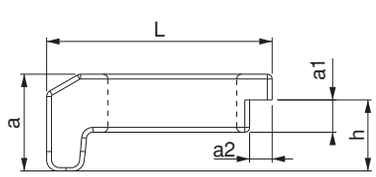
Referans Nr.	L	b1	metrik	whitworth	a	b2	b3	b4	(g)
1390-06060	60	6.6	M6	1/4	12	19	6.2	3	65
1390-08080	80	9	M8	5/16	15	25	8	4	140
1390-10100	100	11	M10	3/8	20	30	9.5	5	240
1390-12125	125	14.5	M12-M14	1/2	25	38	12	6	700
1390-12160	160								915
1390-12200	200								1235
1390-16160	160	18.5	M16-M18	5/8	27	48	15	8	945
1390-16200	200				27			8	1215
1390-16250	250				37			10	2000
1390-20200	200	22.5	M20-M22	3/4	37	52	15	10	1650
1390-20250	250				37	62	20		2765
1390-20315	315				37	62	20		3510
1390-20500	500				47	62	20		7200
1390-24200	200	26	M24	1	37	66	20	10	2260
1390-24250	250				37				2740
1390-24315	315				37				3515
1390-24500	500				47				7100
1390-30250	250	33	M30	11/4	47	73	20	12	3500
1390-30315	315				47	73	20		4190
1390-30400	400				47	73	20		5735
1390-30600	600				46	73	20		8455
1390-301000	1000				57	93	30		28000
1390-36400	400	40	M36	11/2	57	100	30	12	10800
1390-36600	600								16500
1390-42600	600	43	M42	11/2	77	123	40	12	28800

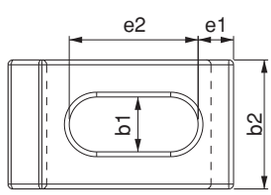
Plaka Bağlama Pabucu





Referans Nr.	L	b1	metrik	whitworth	a	b2	a1xa2	e1	e2	h	(g)
1387-12070	70	13	M12	1/2	21.5	40	8x6	11	40	14	255
1387-16070	70	17	M16	5/8	29.5	40	10x7	11	40	22	290

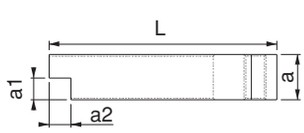


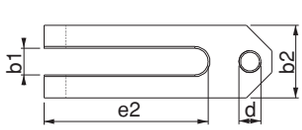


Kademeli Destek Delikli Çatal Pabuç



Referans Nr.	L	b1	metrik	whitworth	a	e2	a1xa2	b2	d	(g)
1400-10100	100	11	M10	3/8	20	70	10x10	30	M10	260
1400-12125	125	14.5	M12-14	1/2	25	90	12x12	40	M12	565
1400-16160	160	18.5	M16-18	5/8	30	110	15x15	50	M16	1235
1400-20200	200	22.5	M20-22	3/4	40	135	20x20	60	M20	2460

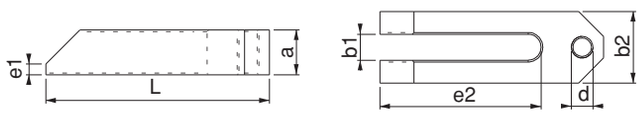




Destek Delikli Çatal Pabuç



Referans Nr.	L	b1	metrik	whitworth	a	e1	e2	b2	d	(g)
1410-10100	100	11	M10	3/8	20	5	70	30	M10	260
1410-12125	125	14.5	M12-14	1/2	25	6	90	40	M12	560
1410-16160	160	18.5	M16-18	5/8	30	8	110	50	M16	1230
1410-20200	200	22.5	M20-22	3/4	40	10	135	60	M20	1490

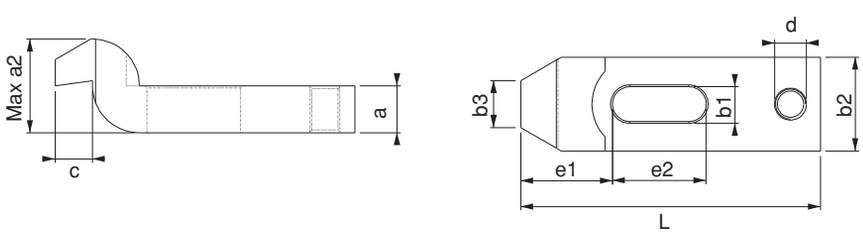


Destek Delikli Z-Bağlama Pabucu



Referans Nr.	L	b1	metrik	whitworth	a	a2	b2	b3	c	e1	e2	d	(g)
1450-06060	60	6.6	M6	1/4	10	20	20	10	8	20	20	M8	80
1450-08080	80	9	M8	5/16	12	24	25	12	9	25	25	M8	170
1450-10100	100	11	M10	3/8	15	30	30	15	12	32	32	M10	245
1450-12125	125	14.5	M12-M14	1/2	19	40	38	20	16	40	40	M12	600
1450-16125 1450-16160	125 160	18.5	M16-M18	5/8	24	50	48	25	20	49	40 50	M16	925 1205
1450-20160 1450-20200	160 200	22.5	M20-M22	3/4	29	58	58	30	24	55	55 70	M20	1705 2145
1450-24160 1450-24200 1450-24250	160 200 250	26	M24	1	33	70	70	35	28	53 72 72	55 60 80	M24	2110 3070 3710
1450-30250 1450-30315	250 315	33	M30	11/4	38 48	80 100	77	40	40	91	80 100	M24	4635 7050



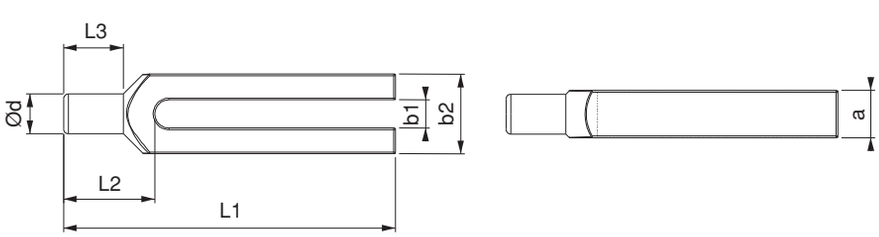


Silindir Başlı Çatal Pabuç



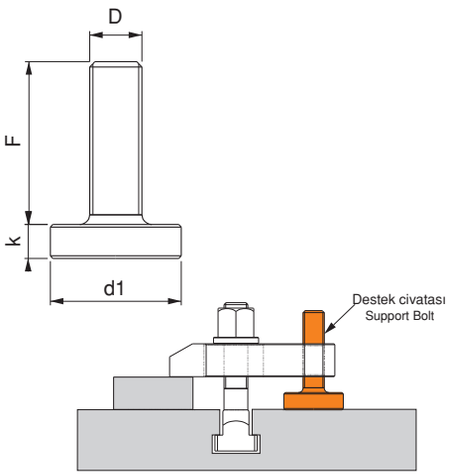
Referans Nr.	L1	b1	metrik	whitworth	a	b2	Ød	L2	L3	(g)
1470-08100	100	9	M8	5/6	15	30	12	30	18	180
1470-10125	125	11	M10	3/8	20	30	16	36	24	290
1470-12160 1470-12200	160 200	14.5	M12-M14	1/2	25	40	20	45	30	715 815
1470-16200 1470-16250	200 250	18.5	M16-M18	5/8	30	50	24	55	36	1210 1550
1470-20250 1470-20315	250 315	22.5	M20-M22	3/4	40	60	30	65	45	2680 3435
1470-24250 1470-24315	250 315	26	M24	1	40	70	38	80	56	3060 4120
1470-30315 1470-30400	315 400	34	M30	11/4	50	80	45	85	56	5600 7135





Pabuç Destek Civatası

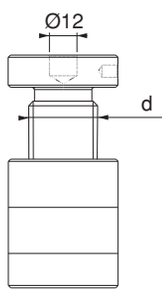




Referans Nr.	D x F	d1	k	(g)
1490-08032	M8x32	25	8	40
1490-10042	M10x42	30	8	60
1490-12050	M12x50	36	10	110
1490-12095	M12x95	36	10	150
1490-16062	M16x62	45	13	240
1490-16097	M16x97	45	13	285
1490-16117	M16x117	45	13	310
1490-20062	M20x62	50	13	320
1490-20097	M20x97	50	13	390
1490-20117	M20x117	50	13	430
1490-24081	M24x81	50	14	445
1490-24116	M24x116	50	14	555
1490-30180	M30x180	70	24	1650

Trapez Diş Yükseltici Destek

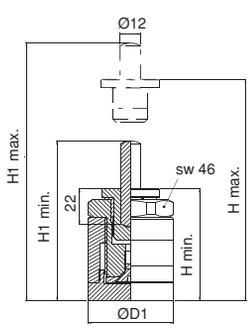




Referans Nr.	h H	d			kgf	(g)
1510-023030	23-30	M16	34	32	1000	140
1510-040060	40-60	M16	34	32	1800	250
1510-042052	42-52	Tr 30x4	50	50	6000	570
1510-050070	50-70	Tr 30x4	50	50	6000	680
1510-070100	70-100	Tr 30x4	50	50	6000	960
1510-100140	100-140	Tr 30x4	50	50	6000	1395
1510-140220	140-220	Tr 30x4	54	54	6000	2285
1510-210330	210-330	Tr 30x6	58	58	8000	3950
1510-260430	260-430	Tr 30x6	68	68	8000	7250

Manyetik Vidalı Yükseltici





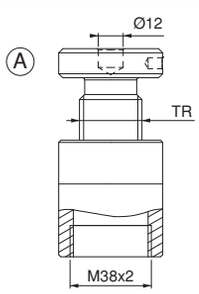
Referans Nr.	H min.	H max.	D1	Ø12x50 H1 min.- H1 max.	Ø12x80 H1 min.- H1 max.	Kgf	(g)
1515-065085	65	85	50	93-113	123-143	3000	810
1515-085125	85	125	50	113-153	143-183	3000	1050

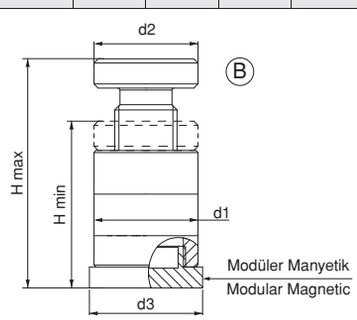
Modüler Manyetik Yükseltici





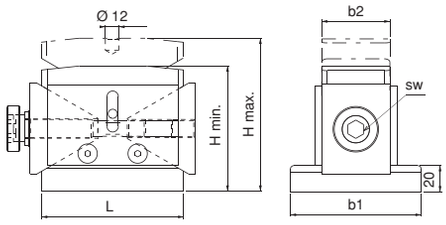
Referans Nr.	H min-max. A	H min-max. B	TR	d1	d2	d3	kgf	(g)
1517-04262	42-52	52-62	30x4	50	50	53.5	6000	700
1517-05080	50-70	60-80	30x4	50	50	53.5	6000	770
1517-70110	70-100	80-110	30x4	50	50	53.5	6000	1050





Blok Destek



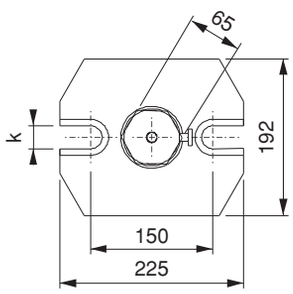


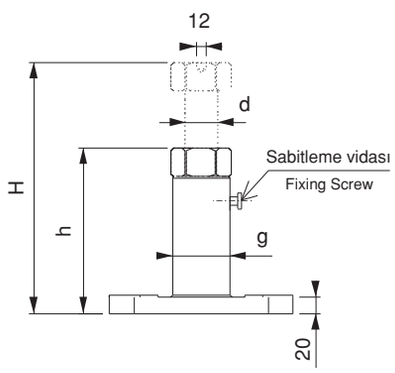
Referans Nr.	H min.	H max.	b1	b2	L	sw	kgf	(g)
1520-050063	50	63	-	40	63	8	4000	1890
1520-100125	100	125	115	60	125	14	10000	9910
1520-170190	170	190	145	80	175	22	25000	28480

Trapez Diş Yükseltici Destek



Referans Nr.	H / h	d	g	k	kgf	(kg)
1530-200	200-300	Tr40x7	69	28	8000	10.0
1530-280	280-460	Tr40x7	69	28	6000	11.8
1530-430	430-750	Tr40x7	69	28	5000	14.2
1530-710	710-1250	Tr40x7	69	28	4000	20.9

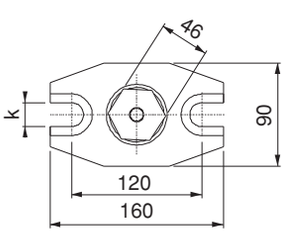


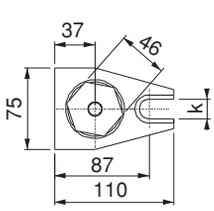


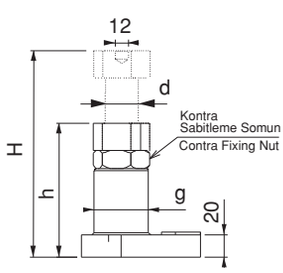
Trapez Diş Yükseltici Destek



Referans Nr.	H / h	d	g	k	kgf	(kg)
1550-100	100-140	Tr30x6	49	18	6000	2.05
1550-140	140-200	Tr30x6	49	18	6000	2.45
1550-200	200-320	Tr30x6	49	22	4000	3.90
1550-320	320-550	Tr30x6	49	22	2500	5.15



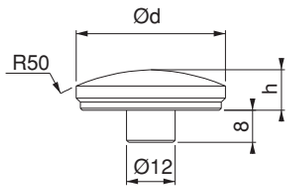






Radüslü Destek





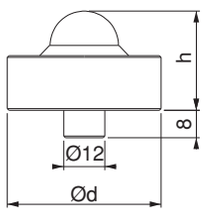
Bu ürünler Nr. 1510-1517-1530-1550 ürünler ile kullanılır

These products are used with the product Nos 1510-1517-1530-1550 taking place.

Referans Nr.	h	Ø d	(g)
1555	10	37	75

Bilyalı Destek

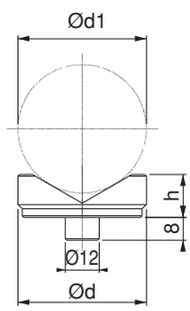




Referans Nr.	h	Ø d	Kgf	(g)
1560	25	45	3000	220

V-Yatak

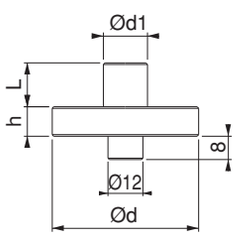




Referans Nr.	h	Ø d	Ø d1 min	Ø d1 max	(g)
1565	15	45	10	50	130

Pimli Destek

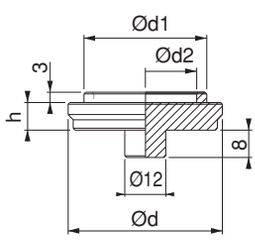




Referans Nr.	h	Ø d	Ø d1	L	(g)
1570	12	50	15	20	220

Ara Merkezleme Vasatı



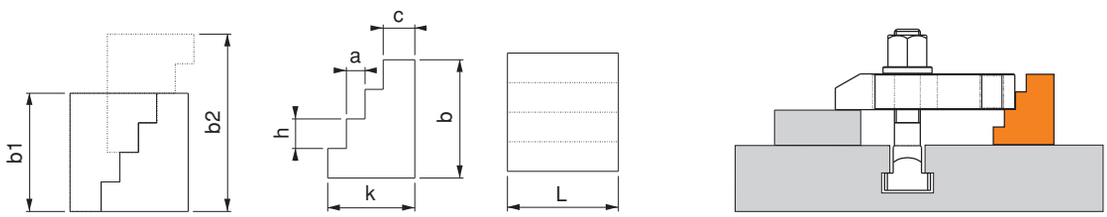


Referans Nr.	h	Ø d	Ø d1	Ø d2	(g)
1575	8	45	35.8	30	105

Basamaklı Destek

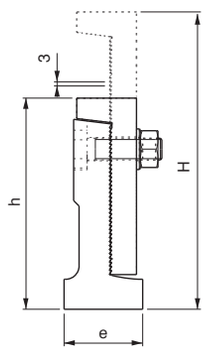


Referans Nr.	h	a	c	k	b	L	b1	b2	(g)
1580-050	13	8	13	37	52	50	52	78	460
1580-060	16	10	17	47	64	60	64	96	860
1580-070	19	13	18	57	76	70	76	114	1420



Merdiven Diş Kombine Destek

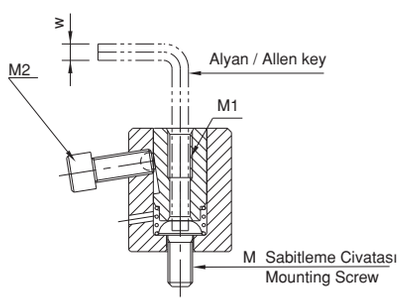


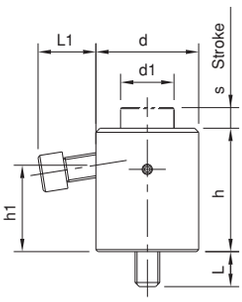


Referans Nr.	h-H	e	kgf	(g)
1585-050	110-150	48x48	4000	1120
1585-060	155-220	60x58	5000	2710
1585-080	220-340	80x78	6000	6560

Ayarlı Destek



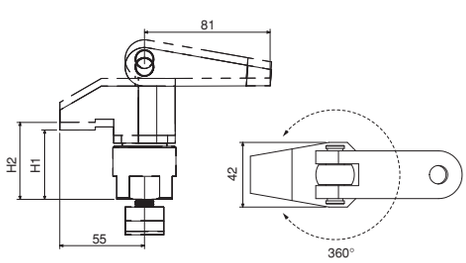




Referans Nr.	h	s	M1	d1	d	M	L	w	h1	L1	M2	İzin Verilen Vida Torku Allowable Screw Torque(Nm)	Destek Kapasitesi Support Capacity (kgf)	Piston Yay Kuvveti Piston Spring Force (N)	(g)
1588-060	33	6	M6x12	14	28	M6	10	4	22	14.1	M6x16	7.5	400	10~22	150
1588-080	42	10	M8x16	19	35	M8	15	5	28.5	18.8	M8x20	14	600	10~27	300
1588-100	50	10	M10x20	22	42	M10	14	6	34	23.8	M10x25	18	750	14~28	540
1588-120	60	10	M12x24	26	50	M12	17	8	42	28.5	M12x30	22	900	15~30	865
1588-160	70	10	M16x32	33	60	M16	22	10	47	26.5	M12x30	25	900	15~35	1.390

Üstten Bağlama





Referans Nr.	a	H1 - H2 (mm)	Sıkma Kuvveti Clamping Force Kgf	(g)
1472-02530	14-16-18-20-22	25 - 30	1000	1000
1472-03035		30 - 35	1000	1150
1472-03540		35 - 40	1000	1225
1472-04045		40 - 45	1000	1245
1472-04550		45 - 50	1000	1275

T-Ayaklı Saplama

Referans Nr.	dx	x L	b	a	e	k	Sıkma Verileri Tightening Data Nm	kN	(g)
1590-0606025	M6x6	x25	15	5.7	10	4	17	17	8
1590-0606040		x40	28						11
1590-0606063		x63	40						15
1590-0808032	M8x8	x32	22	7.7	12	6	43	32	13
1590-0808050		x50	35						16
1590-0808080		x80	50						20
1590-1010040	M10x10	x40	23	9.7	15	6	79	51	35
1590-1010063		x63	45						45
1590-1010080		x80	50						60
1590-1010100		x100	60						70
1590-1012050	M10x12	x50	35	11.7	18	7	79	51	50
1590-1012063		x63	40						60
1590-1012080		x80	55						65
1590-1012100		x100	60						75
1590-1012125		x125	75						90
1590-1012160		x160	90						105
1590-1012200		x200	120						120
1590-1212050	M12x12	x50	35	11.7	18	7	141	74	65
1590-1212063		x63	40						70
1590-1212080		x80	55						80
1590-1212100		x100	65						100
1590-1212125		x125	75						110
1590-1212160		x160	100						140
1590-1212200		x200	120						160
1590-1214050	M12x14	x50	35	13.7	22	8	141	74	80
1590-1214063		x63	45						90
1590-1214080		x80	55						100
1590-1214100		x100	65						110
1590-1214125		x125	75						135
1590-1214160		x160	100						160
1590-1214200		x200	120						180
1590-1416063	M14x16	x63	45	15.7	25	9	223	101	115
1590-1416080		x80	55						140
1590-1416100		x100	65						160
1590-1416125		x125	75						180
1590-1416160		x160	100						220
1590-1416200		x200	120						255
1590-1416250		x250	150						300
1590-1616063	M16x16	x63	45	15.7	25	9	354	138	140
1590-1616080		x80	55						160
1590-1616100		x100	65						190
1590-1616125		x125	85						225
1590-1616160		x160	100						270
1590-1616200		x200	120						315
1590-1616250		x250	150						380
1590-1618063	M16x18	x63	45	17.7	28	10	354	138	170
1590-1618080		x80	55						185
1590-1618100		x100	65						220
1590-1618125		x125	85						245
1590-1618160		x160	100						295
1590-1618200		x200	120						340
1590-1618250		x250	150						405
1590-1820080	M18x20	x80	55	19.7	32	12	474	169	260
1590-1820100		x100	65						290
1590-1820125		x125	85						340
1590-1820160		x160	110						390
1590-1820200		x200	125						455
1590-1820250		x250	150						535
1590-1820315		x315	190						650
1590-2020080	M20x20	x80	55	19.7	32	12	679	215	300
1590-2020100		x100	65						330
1590-2020125		x125	85						380
1590-2020160		x160	110						450
1590-2020200		x200	125						535
1590-2020250		x250	160						635
1590-2020315		x315	190						760
1590-2022080	M20x22	x80	55	21.7	35	14	679	215	345
1590-2022100		x100	65						380
1590-2022125		x125	85						435
1590-2022160		x160	110						500
1590-2022200		x200	125						590
1590-2022250		x250	150						695
1590-2022315		x315	190						820

Referans Nr.	dx	x L	b	a	e	k	Sıkma Verileri Tightening Data Nm	kN	(g)
1590-2224080	M22x24	x80	55	23.7	40	16	903	266	465
1590-2224100		x100	65						515
1590-2224125		x125	85						580
1590-2224160		x160	110						660
1590-2224200		x200	125						775
1590-2224250		x250	150						805
1590-2224315		x315	190						1050
1590-2424100	M24x24	x100	70	23.7	40	16	1163	310	550
1590-2424125		x125	85						630
1590-2424160		x160	110						725
1590-2424200		x200	125						850
1590-2424250		x250	150						990
1590-2424315		x315	190						1180
1590-2424400		x400	240						1410
1590-2428100	M24x28	x100	70	27.7	44	18	1163	310	660
1590-2428125		x125	85						730
1590-2428160		x160	110						820
1590-2428200		x200	125						950
1590-2428250		x250	150						1090
1590-2428315		x315	190						1300
1590-2428400		x400	240						1530
1590-2428500		x500	290						1800
1590-3036125	M30x36	x125	80	35.6	54	22	2258	493	1280
1590-3036160		x160	110						1440
1590-3036200		x200	135						1620
1590-3036250		x250	150						1880
1590-3036315		x315	200						2150
1590-3036500		x500	300						3010
1590-3642160	M36x42	x160	100	41.6	65	26	3953	719	2260
1590-3642250		x250	175						2890
1590-3642400		x400	250						4010
1590-3642600		x600	340						5900
1590-4248160	M42x48	x160	100	47.6	75	30	6337	986	3550
1590-4248250		x250	175						4530
1590-4248400		x400	250						6160

DIN 787

Ürün Nr. 1590 T-Ayaklı Saplama
- Kalite 12.9
- Siyah kaplama

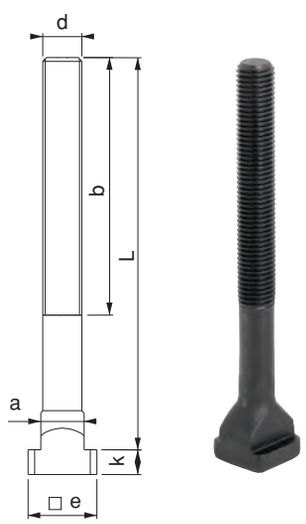
Product Nr. 1590 T-Slot Bolt
- Quality 12.9
- Black coating

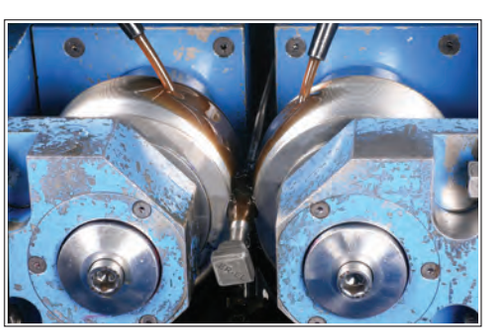


Loctite 8150

Not: 150 °C üzerindeki ortamlarda sıkma işlemi yapılırken dişlerin üzerine Loctite 8150 kullanılır.

Note: Environments on the 150 °C when clamping action on the thread Loctite 8150 is used.





Somunlu Pullu T-Ayaklı Saplama

Referans Nr.	dx	x L	b	a	e	k	Sıkma Verileri Tightening Data Nm	kN	(g)
1610-0606025	M6x6	x25	15	5.7	10	4	17	17	19
1610-0606040		x40	28						25
1610-0606063		x63	40						36
1610-0808032	M8x8	x32	22	7.7	12	6	43	32	39
1610-0808050		x50	35						45
1610-0808080		x80	50						56
1610-1010040	M10x10	x40	23	9.7	15	6	79	51	65
1610-1010063		x63	45						80
1610-1010080		x80	50						90
1610-1010100		x100	60						110
1610-1012050	M10x12	x50	35	11.7	18	7	79	51	85
1610-1012063		x63	40						95
1610-1012080		x80	55						100
1610-1012100		x100	60						110
1610-1012125		x125	75						125
1610-1012160		x160	90						140
1610-1012200		x200	120						160
1610-1212050	M12x12	x50	35	11.7	18	7	141	74	120
1610-1212063		x63	40						128
1610-1212080		x80	55						140
1610-1212100		x100	65						160
1610-1212125		x125	75						170
1610-1212160		x160	100						195
1610-1212200		x200	120						220
1610-1214050	M12x14	x50	35	13.7	22	8	141	74	140
1610-1214063		x63	45						150
1610-1214080		x80	55						155
1610-1214100		x100	65						175
1610-1214125		x125	75						195
1610-1214160		x160	100						220
1610-1214200		x200	120						240
1610-1416063	M14x16	x63	45	15.7	25	9	223	101	200
1610-1416080		x80	55						230
1610-1416100		x100	65						245
1610-1416125		x125	75						270
1610-1416160		x160	100						310
1610-1416200		x200	120						340
1610-1416250		x250	150						390
1610-1616063	M16x16	x63	45	15.7	25	9	354	138	260
1610-1616080		x80	55						285
1610-1616100		x100	65						310
1610-1616125		x125	85						345
1610-1616160		x160	100						385
1610-1616200		x200	120						435
1610-1616250		x250	150						505
1610-1618063	M16x18	x63	45	17.7	28	10	354	138	290
1610-1618080		x80	55						305
1610-1618100		x100	65						340
1610-1618125		x125	85						370
1610-1618160		x160	100						415
1610-1618200		x200	120						460
1610-1618250		x250	150						525
1610-1820080	M18x20	x80	55	19.7	32	12	474	169	405
1610-1820100		x100	65						435
1610-1820125		x125	85						480
1610-1820160		x160	110						535
1610-1820200		x200	125						610
1610-1820250		x250	150						680
1610-1820315		x315	190						790
1610-2020080	M20x20	x80	55	19.7	32	12	679	215	480
1610-2020100		x100	65						515
1610-2020125		x125	85						570
1610-2020160		x160	110						635
1610-2020200		x200	125						725
1610-2020250		x250	160						820
1610-2020315		x315	190						950
1610-2022080	M20x22	x80	55	21.7	35	14	679	215	530
1610-2022100		x100	65						565
1610-2022125		x125	85						620
1610-2022160		x160	110						690
1610-2022200		x200	125						775
1610-2022250		x250	150						880
1610-2022315		x315	190						1050

Referans Nr.	dx	x L	b	a	e	k	Sıkma Verileri Tightening Data Nm	kN	(g)
1610-2224080	M22x24	x80	55	23.7	40	16	903	266	700
1610-2224100		x100	65						740
1610-2224125		x125	85						805
1610-2224160		x160	110						890
1610-2224200		x200	125						1000
1610-2224250		x250	150						1115
1610-2224315		x315	190						1280
1610-2424100	M24x24	x100	70	23.7	40	16	1163	310	885
1610-2424125		x125	85						970
1610-2424160		x160	110						1060
1610-2424200		x200	125						1180
1610-2424250		x250	150						1320
1610-2424315		x315	190						1515
1610-2424400		x400	240						1750
1610-2428100	M24x28	x100	70	27.7	44	18	1163	310	1000
1610-2428125		x125	85						1065
1610-2428160		x160	110						1150
1610-2428200		x200	125						1280
1610-2428250		x250	150						1425
1610-2428315		x315	190						1640
1610-2428400		x400	240						1870
1610-2428500		x500	290						2170
1610-3036125	M30x36	x125	80	35.6	54	22	2258	493	1900
1610-3036160		x160	110						2065
1610-3036200		x200	135						2250
1610-3036250		x250	150						2500
1610-3036315		x315	200						2770
1610-3036500		x500	300						3630
1610-3642160	M36x42	x160	100	41.6	65	26	3953	719	3310
1610-3642250		x250	175						3930
1610-3642400		x400	250						5010
1610-3642600		x600	340						6900
1610-4248160	M42x48	x160	100	47.6	75	30	6337	986	4600
1610-4248250		x250	175						5600
1610-4248400		x400	250						7200

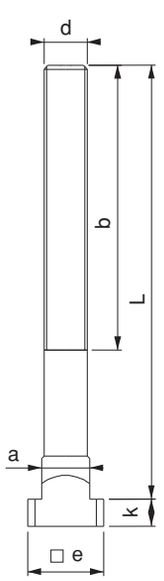
DIN 787

Ürün Nr. 1610 Somunlu Pullu T-Ayaklı Saplama

- Kalite 12.9
- Siyah kaplama

Product Nr. 1610 T-Slot Bolt with Nut and Washer

- Quality 12.9
- Black coating





Not: 150 °C üzerindeki ortamlarda sıkma işlemi yapılırken dişlerin üzerine Loctite 8150 kullanılır.



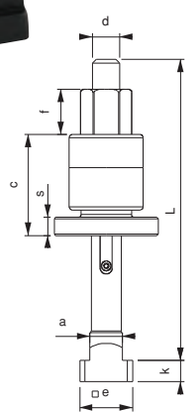
Loctite 8150

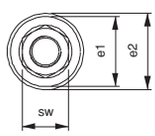
Note: Environments on the 150 °C when clamping action on the thread Loctite 8150 is used.

Kombine T-Ayaklı Saplama



Referans Nr.	dx a xL	a	e	k	h-H	e1	e2	c	s	f	sw	Sıkma Verileri Tightening Data Nm	kN	(g)
1630-2022200	M20x22x200	21.7	35	14	25-75	49	69	92	12	30	30	679	215	1635
1630-2022250	M20x22x250	21.7	35	14	70-120	49	69	92	12	30	30	679	215	1720
1630-2424200	M24x24x200	23.7	40	16	25-75	53	74	92	12	30	36	1163	310	2075
1630-2424250	M24x24x250	23.7	40	16	70-120	53	74	92	12	30	36	1163	310	2250
1630-2428200	M24x28x200	27.7	44	18	25-75	53	74	92	12	30	36	1163	310	2180
1630-2428250	M24x28x250	27.7	44	18	70-120	53	74	92	12	30	36	1163	310	2340
1630-3036200	M30x36x200	35.6	54	22	25-75	68	88	94	14	30	46	2258	493	3660
1630-3036250	M30x36x250	35.6	54	22	70-120	68	88	94	14	30	46	2258	493	3910



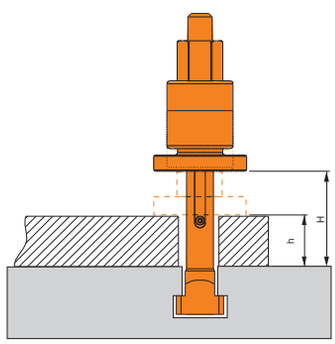


Not: 150 °C üzerindeki ortamlarda sıkma işlemi yapılırken dişlerin üzerine Loctite 8150 kullanılır.

Note: Environments on the 150 °C when clamping action on the thread Loctite 8150 is used.

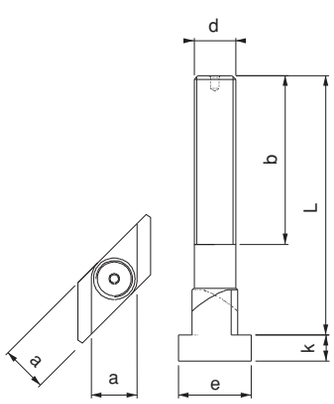


Loctite 8150



Dereceli T-Ayaklı Saplama

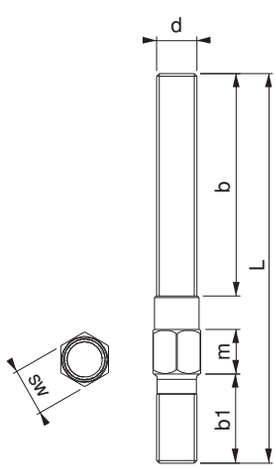




Referans Nr.	dx a x L	b	a	e	k	Sıkma Verileri Tightening Data Nm	kN	(g)
1650-1214050	x50	35						70
1650-1214080	M12x14 x80	55	13.7	22	8	141	74	100
1650-1214125	x125	75						120
1650-1618063	x63	45						160
1650-1618100	M16x18 x100	65	17.7	28	10	354	138	220
1650-1618160	x160	100						280
1650-2022080	x80	55						330
1650-2022125	M20x22 x125	85	21.7	35	14	679	215	430
1650-2022200	x200	120						570
1650-2428100	x100	70						650
1650-2428125	M24x28 x125	85	27.7	44	18	1163	310	770
1650-2428250	x250	150						1150

Anahtar Ağızlı Saplama





Referans Nr.	d	L	b	b1	m	sw	Sıkma Verileri Tightening Data Nm	kN	(g)
1670-12130	M12	130	65	24	14	14	120	63	160
1670-12160		160	90						185
1670-14130	M14	130	65	28	15	15	191	86	216
1670-14160		160	90						246
1670-16140	M16	140	70	32	16	17	302	118	310
1670-16160		160	95						340
1670-18150	M18	150	70	35	19	19	405	144	395
1670-18180		180	95						450
1670-20150	M20	150	70	40	22	22	580	184	520
1670-20180		180	95						575
1670-22150	M22	150	70	40	22	24	772	228	610
1670-22180		180	95						705
1670-24170	M24	170	75	47	22	27	994	265	875
1670-24205		205	105						990
1670-24250		250	140						1125
1670-30250	M30	250	135	55	32	36	1930	421	1950
1670-30315		315	195						2260

Düz Saplama

Referans Nr.	d x L	b1	b	Sıkma Verileri Tightening Data Nm	kN	(g)
1690-08040	M8 x40	11	20	36	27	10
1690-08063	x63		40			15
1690-08080	x80		50			20
1690-08100	x100		63			30
1690-08125	x125		75			35
1690-08160	x160		100			45
1690-10050	M10 x50	13	25	67	43	20
1690-10063	x63		32			25
1690-10080	x80		50			35
1690-10100	x100		63			45
1690-10125	x125		75			55
1690-10160	x160		100			70
1690-10200	x200		125			95
1690-12050	M12 x50	15	25	120	63	35
1690-12063	x63		32			40
1690-12080	x80		50			55
1690-12100	x100		63			70
1690-12125	x125		75			90
1690-12160	x160		100			115
1690-12200	x200		125			140
1690-14063	M14 x63	17	32	191	86	60
1690-14080	x80		50			75
1690-14100	x100		63			95
1690-14125	x125		75			120
1690-14160	x160		100			150
1690-14200	x200		125			195
1690-14250	x250		160			240
1690-16063	M16 x63	19	32	302	118	85
1690-16080	x80		50			105
1690-16100	x100		63			130
1690-16125	x125		75			160
1690-16160	x160		100			205
1690-16200	x200		125			260
1690-16250	x250		160			325
1690-16315	x315		180			405
1690-16500	x500		315			650
1690-18080	M18 x80	23	50	405	144	130
1690-18100	x100		60			160
1690-18125	x125		75			200
1690-18160	x160		100			260
1690-18200	x200		125			320
1690-18250	x250		150			400
1690-18315	x315		180			510
1690-20080	M20 x80	27	32	580	184	155
1690-20100	x100		60			200
1690-20125	x125		70			250
1690-20160	x160		100			330
1690-20200	x200		125			400
1690-20250	x250		160			510
1690-20315	x315		200			640
1690-20400	x400		250			815
1690-20500	x500		315			1020
1690-22100	M22 x100	31	45	772	228	250
1690-22125	x125		70			305
1690-22160	x160		100			400
1690-22200	x200		125			500
1690-22250	x250		160			620
1690-22315	x315		180			780
1690-22400	x400		250			1010
1690-24100	M24 x100	35	45	994	265	290
1690-24125	x125		70			365
1690-24160	x160		100			470
1690-24200	x200		125			580
1690-24250	x250		160			730
1690-24315	x315		200			920
1690-24400	x400		250			1170
1690-24500	x500		315			1470
1690-24630	x630		315			1860
1690-30125	M30 x125	43	56	1930	421	570
1690-30200	x200		125			910
1690-30250	x250		160			1150
1690-30315	x315		200			1435
1690-30500	x500		315			2315
1690-30700	x700		400			3215
1690-301000	x1000		400			4700

Referans Nr.	d x L	b1	b	Sıkma Verileri Tightening Data Nm	kN	(g)
1690-36160	M36 x160	51	80	3378	614	1100
1690-36200	x200		125			1340
1690-36250	x250		160			1710
1690-36315	x315		200			2150
1690-36400	x400		250			2700
1690-36500	x500		315			3450
1690-36700	x700		400			4750
1690-42315	M42 x315	59	200	5415	843	2950
1690-42400	x400		250			3750
1690-42500	x500		315			4690

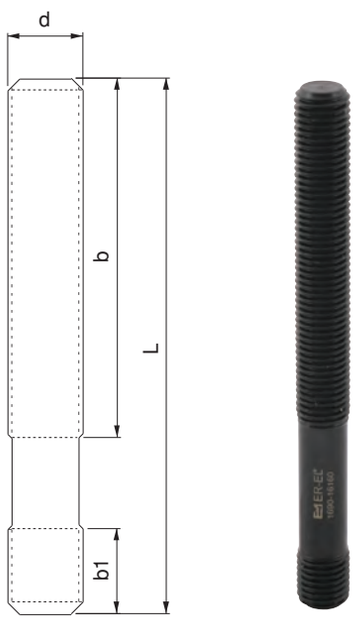
DIN 6379

Ürün Nr. 1690 Düz Saplama

- Kalite 10.9
- Siyah kaplama

Product Nr. 1690 Straight Stud

- Quality 10.9
- Black coating



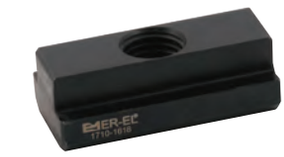
Not: 150 °C üzerindeki ortamlarda sıkma işlemi yapılırken dişlerin üzerine Loctite 8150 kullanılır.

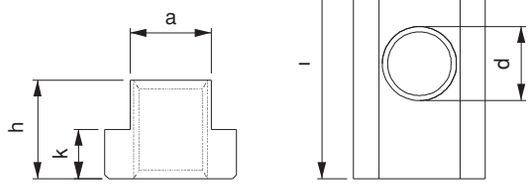
Note: Environments on the 150 °C when clamping action on the thread Loctite 8150 is used.



Loctite 8150

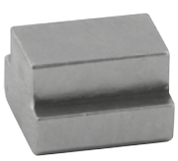
Uzun T-Pabuç

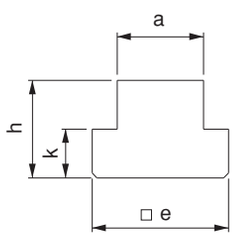




Referans Nr.	dx	a	e	l	h	k	(g)
1710-0608	M6x8	7.7	13	26	10	6	14
1710-0810	M8x10	9.7	15	30	12	6	25
1710-1012	M10x12	11.7	18	36	14	7	49
1710-1214	M12x14	13.7	22	44	16	8	82
1710-1416	M14x16	15.7	25	50	18	9	120
1710-1618	M16x18	17.7	28	56	20	10	165
1710-1820	M18x20	19.7	32	64	24	12	260
1710-2022	M20x22	21.7	35	70	28	14	365
1710-2224	M22x24	23.7	40	80	32	16	535
1710-2428	M24x28	27.7	44	88	36	18	745
1710-3036	M30x36	35.6	54	108	44	22	1390

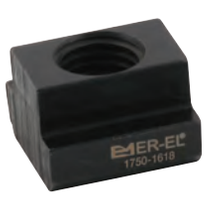
Deliksiz T-Pabuç

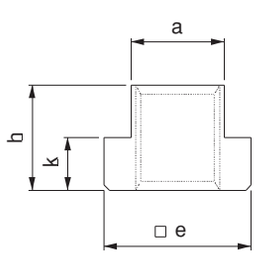


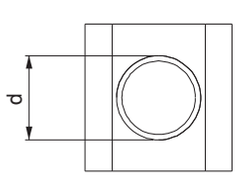


Referans Nr.	a	a	e	h	k	(g)
1730-06	6	5.7	10	8	4	4
1730-08	8	7.7	13	10	6	10
1730-10	10	9.7	15	12	6	16
1730-12	12	11.7	18	14	7	27
1730-14	14	13.7	22	16	8	50
1730-16	16	15.7	25	18	9	70
1730-18	18	17.7	28	20	10	95
1730-20	20	19.7	32	24	12	150
1730-22	22	21.7	35	28	14	210
1730-24	24	23.7	40	32	16	310
1730-28	28	27.7	44	36	18	430
1730-36	36	35.6	54	44	22	800
1730-42	42	41.6	65	52	26	1400

T-Pabuç

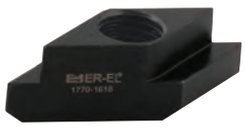


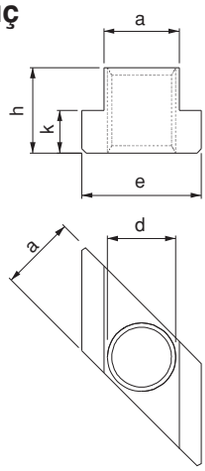




Referans Nr.	dx	a	e	h	k	(g)
1750-0506	M5x6	5.7	10	8	4	4
1750-0608	M6x8	7.7	13	10	6	10
1750-0810	M8x10	9.7	15	12	6	12
1750-0812 1750-1012	M8x12* M10x12	11.7	18	14	7	22 20
1750-0814 1750-1014 1750-1214	M8x14* M10x14* M12x14	13.7	22	16	8	40 37 30
1750-0816 1750-1016 1750-1216 1750-1416	M8x16* M10x16* M12x16* M14x16	15.7	25	18	9	60 55 55 45
1750-0818 1750-1018 1750-1218 1750-1418 1750-1618	M8x18* M10x18* M12x18* M14x18* M16x18	17.7	28	20	10	90 87 80 75 65
1750-1620 1750-1820	M16x20* M18x20	19.7	32	24	12	115 105
1750-1622 1750-1822 1750-2022	M16x22* M18x22* M20x22	21.7	35	28	14	170 160 150
1750-1624 1750-2024 1750-2224	M16x24* M20x24* M22x24	23.7	40	32	16	260 240 220
1750-1628 1750-2028 1750-2228 1750-2428	M16x28* M20x28* M22x28* M24x28	27.7	44	36	18	375 350 330 330
1750-2436 1750-3036	M24x36* M30x36	35.6	54	44	22	665 585
1750-3642	M36x42	41.6	65	52	26	1025
1750-4248	M42x48	47.6	75	60	30	1600

Dereceli T-Pabuç

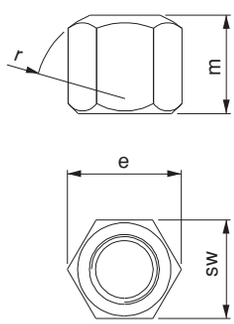




Referans Nr.	dx	a	e	h	k	(g)
1770-0810	M8x10	9.7	15	12	6	10
1770-1012	M10x12	11.7	18	14	7	15
1770-1014 1770-1214	M10x14* M12x14	13.7	22	16	8	30 25
1770-1416	M14x16	15.7	25	18	9	40
1770-1018 1770-1618	M10x18* M16x18	17.7	28	20	10	70 60
1770-1620 1770-1820	M16x20* M18x20	19.7	32	24	12	95 90
1770-1622 1770-2022	M16x22* M20x22	21.7	35	28	14	135 125
1770-1628 1770-2028 1770-2428	M16x28* M20x28* M24x28	27.7	44	36	18	330 295 265

Takviyeli Somun

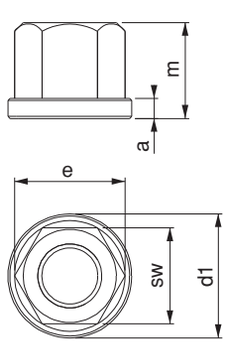




Referans Nr.		sw	e	m	r	(g)
1790-06	M6	10	11.5	9	9	5
1790-08	M8	13	15	12	12	9
1790-10	M10	17	19.6	15	15	20
1790-12	M12	19	21.9	18	17	25
1790-14	M14	22	25.4	21	20	40
1790-16	M16	24	27.7	24	22	55
1790-18	M18	27	31.2	27	24	80
1790-20	M20	30	34.6	30	27	110
1790-22	M22	32	36.9	33	30	130
1790-24	M24	36	41.5	36	32	190
1790-30	M30	46	53.1	45	41	400
1790-36	M36	55	63.5	54	50	680
1790-42	M42	65	75	63	58	1150

Pullu Somun

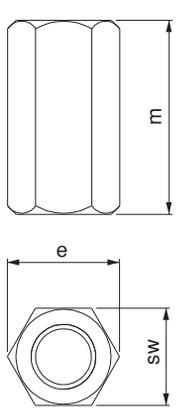




Referans Nr.		sw	e	m	a	d1	(g)
1810-08	M8	13	14.7	12	3.5	18	12
1810-10	M10	17	19.2	15	4	22	25
1810-12	M12	19	21.5	18	4	25	30
1810-14	M14	22	24.9	21	4.5	28	50
1810-16	M16	24	27.2	24	5	31	65
1810-18	M18	27	30.6	27	5	34	90
1810-20	M20	30	34	30	6	37	130
1810-22	M22	32	36.3	33	6	40	155
1810-24	M24	36	40.8	36	6	45	220
1810-30	M30	46	52.3	45	8	58	465
1810-36	M36	55	62	54	10	68	500
1810-42	M42	65	75	63	12	80	1340

Uzatma Somun

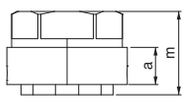


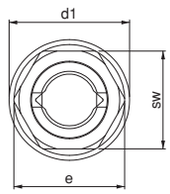


Referans Nr.		sw	e	m	(g)
1830-06	M6	10	11.7	18	8
1830-08	M8	13	15	24	19
1830-10	M10	17	19.6	30	40
1830-12	M12	19	21.6	36	55
1830-14	M14	22	25.4	42	90
1830-16	M16	24	27.7	48	115
1830-18	M18	27	31.2	54	165
1830-20	M20	30	34.6	60	230
1830-22	M22	32	36.9	66	245
1830-24	M24	36	41.5	72	400
1830-30	M30	46	53.1	90	840
1830-36	M36	55	63.5	108	1430
1830-42	M42	65	75	126	2330

Hızlı Somun



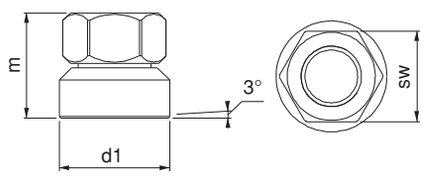




Referans Nr.	metrik	a	d1	e	m	sw	(g)
1840-16	M16	11.5	34	30.7	27.5	27	105
1840-20	M20	14	44	38.8	33	34	210
1840-24	M24	18.5	50.4	46	35	41	365

Oynar Başlı Pullu Somun

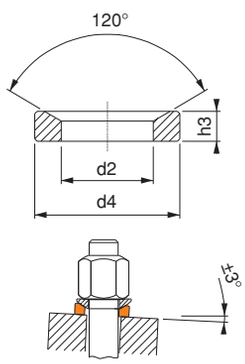




Referans Nr.		sw	d1	m	(g)
1850-08	M8	13	17	14	10
1850-10	M10	17	21	18	30
1850-12	M12	19	24	22	40
1850-16	M16	24	30	28	70
1850-20	M20	30	36	35	140
1850-24	M24	36	44	43	260

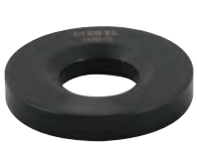
Dereceli Pul

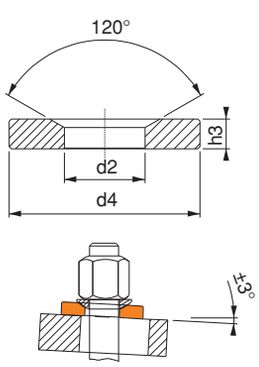




Referans Nr.		max. KN	d2	d4	h3	(g)
1910-06	M6	9	7.1	12	2.8	2
1910-08	M8	17	9.6	17	3.5	4
1910-10	M10	26	12	21	4.2	6.5
1910-12	M12	38	14.2	24	5	10
1910-14	M14	53	16.5	28	5.6	10
1910-16	M16	73	19	30	6.2	15
1910-20	M20	117	23.2	36	7.5	25
1910-24	M24	168	28	44	9.5	55
1910-30	M30	269	35	56	12	120
1910-36	M36	394	42	68	15	220
1910-42	M42	542	49	78	18	365

Dereceli Pul

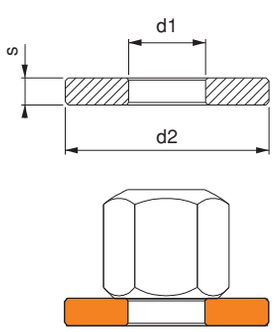




Referans Nr.		d2	d4	h3	(g)
1930-06	M6	7.1	17	4	5.5
1930-08	M8	9.6	24	5	13
1930-10	M10	12	30	5	19
1930-12	M12	14.2	36	6	32
1930-14	M14	16.5	40	6	45
1930-16	M16	19	44	7	65
1930-20	M20	23.2	50	8	90
1930-24	M24	28	59	10	150
1930-30	M30	35	68	10	180
1930-36	M36	42	79	12	285
1930-42	M42	49	100	15	640

Pul

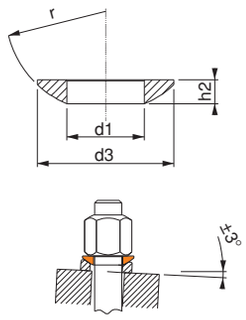




Referans Nr.	metrik	whitworth	d1	d2	s	(g)
1870-06	M6	1/4	6.4	17	3	6
1870-08	M8	5/16	8.4	23	4	10
1870-10	M10	3/8	10.5	28	4	16
1870-12	M12	1/2	13	35	5	30
1870-14	M14	-	15	40	5	40
1870-16	M16	5/8	17	45	6	60
1870-18	M18	-	19	45	6	60
1870-20	M20	3/4	21	50	6	70
1870-22	M22	7/8	23	50	8	90
1870-24	M24	7/8	25	60	8	140
1870-30	M30	11/8	31	68	10	215
1870-36	M36	11/4	38	80	12	360
1870-42	M42	11/2	44	98	15	640

Radüslü Pul

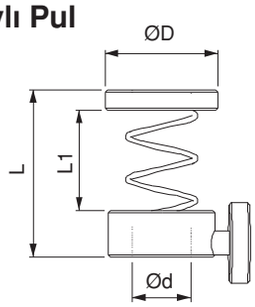




Referans Nr.		d1	d3	h2	r	(g)
1890-06	M6	6.4	12	2.3	9	1.5
1890-08	M8	8.4	17	3.2	12	2.5
1890-10	M10	10.5	21	4.0	15	5
1890-12	M12	13	24	4.6	17	7
1890-14	M14	15	28	5.0	22	10
1890-16	M16	17	30	5.3	22	15
1890-20	M20	21	36	6.3	27	20
1890-24	M24	25	44	8.2	32	40
1890-30	M30	31	56	11.2	41	95
1890-36	M36	37	68	14.0	50	190
1890-42	M42	43	78	17.0	58	297

Pabuç Kaldırma Yaylı Pul



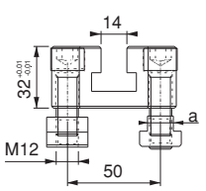


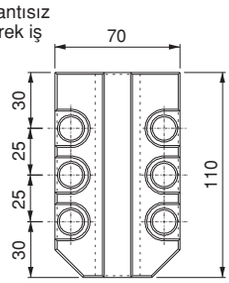
Referans Nr.		Ø D	Ø d	L	L1	(g)
1970-10	M10	27	10.5	35	20	65
1970-12	M12	27	12.5	40	33	70
1970-14	M14	28	14.5	40	30	60
1970-16	M16	37	16.5	45	30	110
1970-18	M18	37	18.5	45	40	115
1970-20	M20	37	21	45	42	105
1970-22	M22	37	23	45	45	120
1970-24	M24	45	25	50	45	170

Modüler T-Blok

Tezgah pleytine bağlanacak iş parçasının orantısız duruşunda pleytin uygun bir yerine sabitlenerek iş parçasını bağlamada kolaylık sağlar.







Referans Nr.	a	(g)
1960-110	14-16-18-20	1160



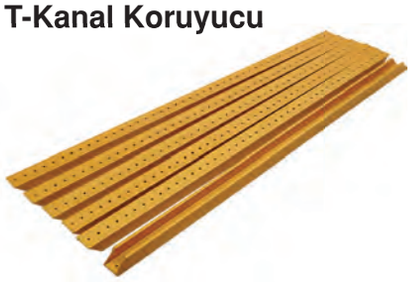
T-Kanal Temizleyici

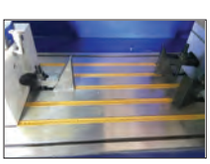




Referans Nr.	a	(g)
1950-1214	12-14	25
1950-1618	16-18	45
1950-2022	20-22	45
1950-2428	24-28	70

T-Kanal Koruyucu





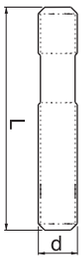




Referans Nr	Genişlik Width (mm)	Boy Length (mm)	Miktar Quantity
1955-T010	10	300	6
1955-T012	12	400	6
1955-T014	14	400	6
1955-T016	16	400	6
1955-T018	18	450	6
1955-T181	18	1000	5
1955-T205	20	500	10
1955-T020	20	1000	5
1955-T022	22	1000	5
1955-T024	24	1000	5
1955-T028	28	1000	5
1955-T036	36	1000	5

Vidalı Yükselticili Bağlama Set

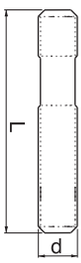




Referans Nr.	a		(kg)	DIN 6379 d x L
1990-1012	M10x12	265x255	6.44	M10x80-100-160-200
1990-1214	M12x14	305x255	8.72	M12x80-100-160-200
1990-1416	M14x16	435-255	12.98	M14x80-100-160-200
1990-1618	M16x18	435-255	16.30	M16x80-100-160-200
1990-1820	M18x20	495x255	17.82	M18x80-100-160-200
1990-2022	M20x22	540x255	23.10	M20x100-125-160-200

Merdiven Yükselticili Bağlama Set

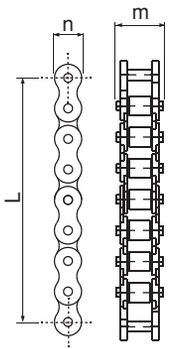




Referans Nr.	dx a		(kg)	DIN 6379 d x L
2010-1012	M10x12	330x255	7.27	M10x80-100-160-200
2010-1214	M12x14	380x255	9.26	M12x80-100-160-200
2010-1416	M14x16	435x255	12.29	M14x80-100-160-200
2010-1618	M16x18	435x255	15.62	M16x80-100-160-200
2010-1820	M18x20	495x255	18.00	M18x80-100-160-200

Zincirli Sıkma

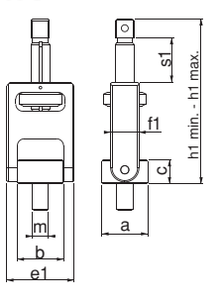




Referans Nr.		a	Sıkma Kuvveti Clamping force kgf	L	m	n	(g)
2020-120125	M12	14-16-18	1500	125	20	15	1414
2020-120250	M12		1500	250	20	15	1528
2020-120500	M12		1500	500	20	15	1755
2020-121000	M12		1500	1000	20	15	2210
2020-160125	M16	18-20-22-24	4000	125	33	21	3495
2020-160250	M16		4000	250	33	21	3810
2020-160500	M16		4000	500	33	21	4480
2020-161000	M16		4000	1000	33	21	5820

Ayar Ünitesi

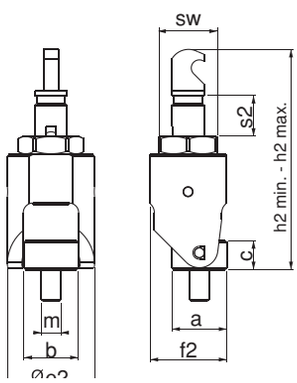




Referans Nr.	a	a	b	c	e1	f1	h1 min.	h1 max.	m	s1	Sıkma kuvveti Clamping force kgf	(g)
2020-12125	14-16-18	36	36	18	49	21	95	125	M12	35	1500	580
2020-16162	18-20-22-24	37	44	25	64	29	117	162	M16	45	4000	1275

Kanca Ünitesi





Referans Nr.	a	a	b	c	e2	f2	h2 min.	h2 max.	s2	SW	m	Sıkma kuvveti Clamping force kgf	(g)
2020-12127	14-16-18	36	36	18	54	49	111	127	16	36	M12	1500	945
2020-16170	18-20-22-24	37	44	25	70	62	140	170	30	46	M16	4000	1890

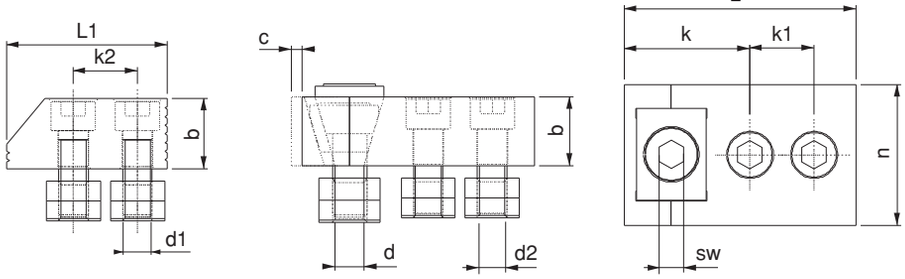


Dereceli Yandan Bağlama Set



Referans Nr.	a	c	L	b	n	k	k1	k2	L1	d	d1	d2	sw	sıkma kuvveti clamping force Kgf	Tork Değeri Allowable Screw Torque (N-m)	(g)
2030-14	14	5	90	23	47	47	26	26	65	M12	M12	M12	10	2000	35	3490
2030-16	16															3670
2030-18	18	5	95	28	57	52	26	26	65	M12	M12	M12	10	2000	35	5000
2030-20	20															5355
2030-22	22															5720
2030-24	24															6190
2030-28	28															6650



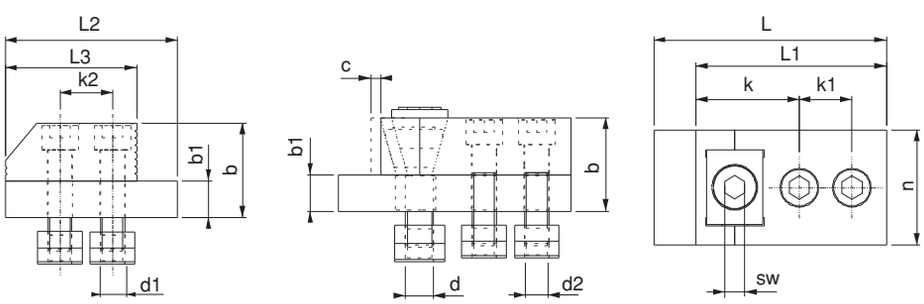


Dereceli Yandan Bağlama (Paralelli) Set



Referans Nr.	a	c	L	L1	L2	L3	b	b1 ±0.01	n	k	k1	k2	d	d1	d2	sw	sıkma kuvveti clamping force Kgf	Tork Değeri Allowable Screw Torque (N-m)	(g)
2050-14	14	5	110	90	85	65	41	18	47	47	26	26	M12	M12	M12	6	1000	15	5920
2050-16	16																		6210
2050-18	18	5	115	95	85	65	46	18	57	52	26	26	M12	M12	M12	8	1250	20	8090
2050-20	20																		8440
2050-22	22																		8825
2050-24	24																		10080
2050-28	28																		10750

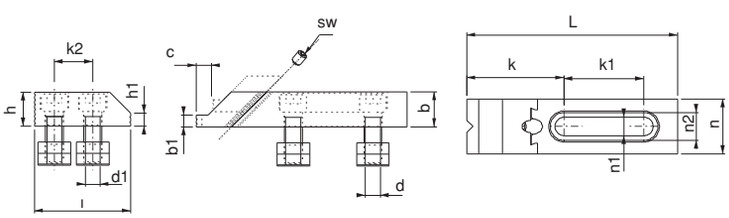




Kızaklı Yandan Bağlama Set



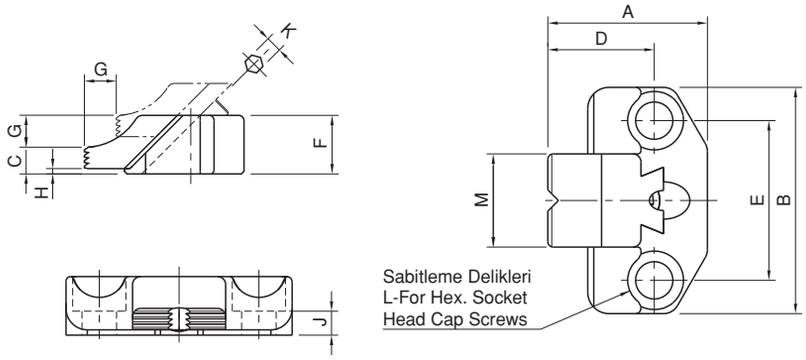




Referans Nr.	a	c	L	b	b1	n	n1	n2	k	k1	k2	sw	ı	h	h1	d	d1	sıkma kuvveti clamping force Kgf	Tork Değeri Allowable Screw Torque (N-m)	(g)
2070-14	14	10	142	24	8	37	12.5	18.5	65	54	26	6	65	23	10	M12	M12	850	15	3575
2070-16	16																			3710
2070-18	18	14	145	28	10	48	12.5	18.5	74	56	26	8	65	28	11	M12	M12	1000	35	5215
2070-20	20																			5400
2070-22	22																			5610

Yandan Bağlama

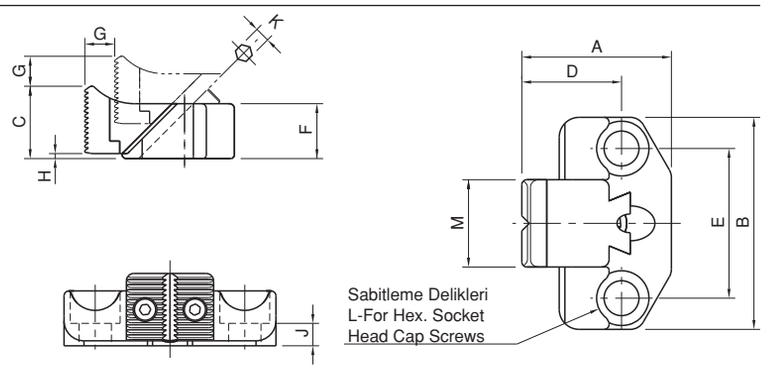




Referans Nr.	A	B	C	D	E	F	G	H	J	K	L	M	Sıkma Kuvveti Kgf	Tork Değeri (N-m)	(g)
2072-08016	39.5	65	7.5	25	45	16	7	1.5	7	4	M8	25	400	8	160
2072-12022	60	85	10	40	60	22	12	2	9	6	M12	35	900	26	450
2072-16030	77	100	14	50	70	30	14	2	13	8	M16	40	1700	60	900

Yandan Bağlama





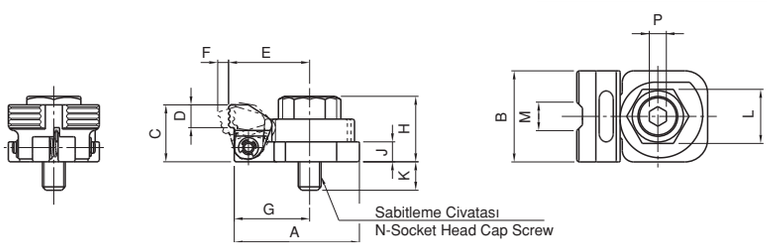
Referans Nr.	A	B	C	D	E	F	G	H	J	K	L	M	Sıkma Kuvveti Kgf	Tork Değeri (N-m)	(g)
2073-08016	39.5	65	19.5	25	45	16	7	1.5	7	4	M8	25	400	8	180
2073-12022	60	85	29	40	60	22	12	2	9	6	M12	35	900	26	500
2073-16030	77	100	38	50	70	30	14	2	13	8	M16	40	1700	60	1010

Yandan Bağlama

Referans Nr.	A	B	C	D	E	F	G	H	J	K	L	M	N
2077-08001	44	32	20	8	28.5	4	26.5	23	7	15	19	10	M8x1.25
2077-10001	54	40	25	10	35	5	33	29	9	16	24	12	M10x1.5
2077-12001	62	46	30	12	39.5	5.5	37.5	35	11	17	27	14	M12x1.75

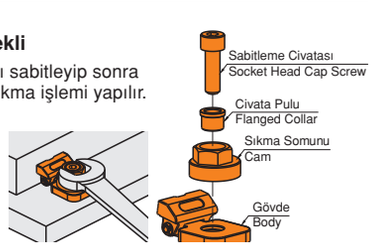


Referans Nr.	P	Sıkma Kuvveti Clamping Force Kgf	Tork Değeri Allowable Screw Torque (N-m)	(g)
2077-08001	6	350	45	160
2077-10001	8	550	55	310
2077-12001	10	700	70	490



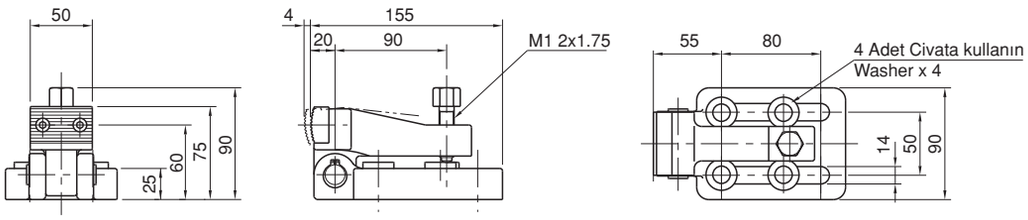
Kullanım Şekli

- Önce parçayı sabitleyip sonra anahtar ile sıkma işlemi yapılır.



Yandan Bağlama



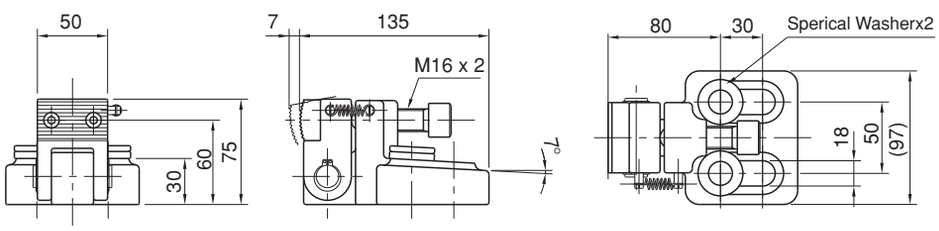


Referans Nr.	Stopersiz Kullanım		Stoperli Kullanım		(kg)
	Sıkma Kuvveti Kgf	Tork Değeri (N-m)	Sıkma Kuvveti Kgf	Tork Değeri (N-m)	
2135-1260	2900	38	6900	90	2.4

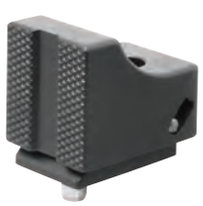
Yandan Bağlama



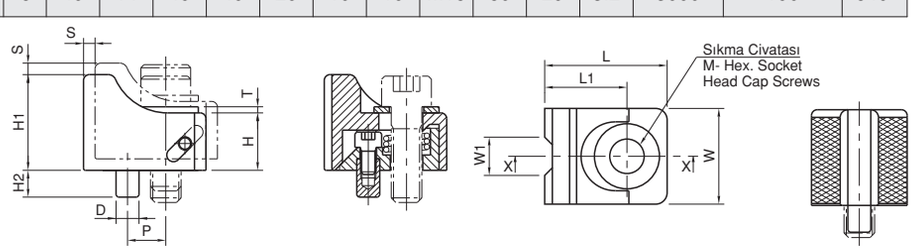
Referans Nr.	Sıkma Kuvveti Kgf	Tork Değeri (N-m)	(kg)
2137-16060	5800	150	2.9



Yandan Bağlama



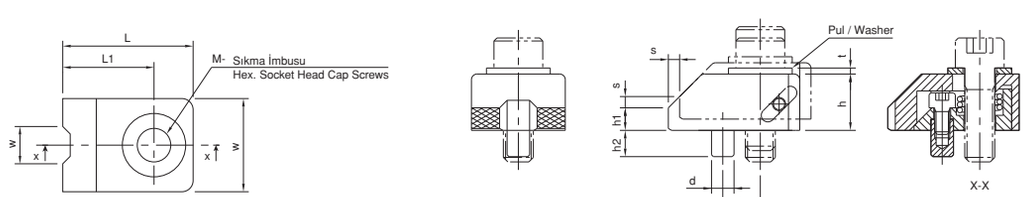
Referans Nr.	S	W	W1	H1	L1	P	D (h7)	H2	M	L	H	T	Sıkma Kuvveti Clamping Force Kgf	Tork Değeri Allowable Screw Torque (N-m)	(g)
2143-08015	3	25	10	25	21.5	10	6	7	M8	32	15	1.6	700	25	115
2143-10019	4	30	11	32	26	12	6	7	M10	40	19	2	850	50	225
2143-12023	5	35	12	38	33	16	8	10	M12	50	23	2.3	2000	90	390
2143-16025	6	40	14	45	40	20	10	10	M16	60	25	3.2	3000	150	640



Yandan Bağlama



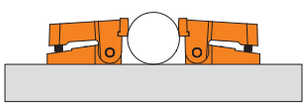
Referans Nr.	s	w	w1	h1	L1	P	d (h7)	h2	M	L	h	t	Sıkma Kuvvet (N)	İzin Verilen Vida Torku (N•m)	(g)
2144-08015	3	25	10	6	24.5	10	6	7	M8	35	15	1.6	7.000	25	100
2144-10019	4	30	11	8	29	12	6	7	M10	43	19	2	8.500	50	185
2144-12023	5	35	12	9	37	16	8	10	M12	54	23	2.3	20.000	90	320
2144-16025	6	40	14	10	45	20	10	10	M16	65	25	3.2	30.000	150	520

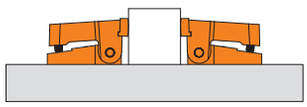


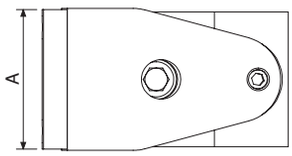
Yandan Bağlama

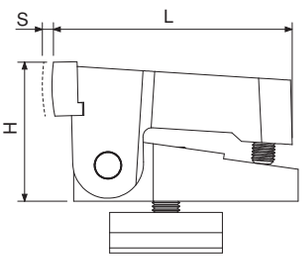


Referans Nr.	a	A	H	L	S	Sıkma Kuvveti Clamping Force Kgf	(g)
2080-01428	14 - 16 - 18 - 20 - 22 - 24 - 28	61	57	108	5	1500	1850







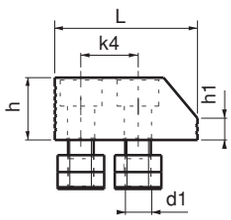


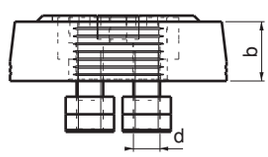
Kollu Yandan Bağlama Set

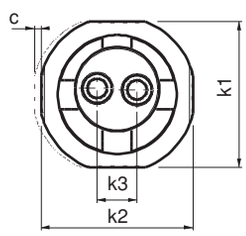


Referans Nr.	a	c	b	k1	k2	k3	k4	L	h	h1	d	d1	sıkma kuvveti clamping force Kgf	(g)
2090-14	14	3.5	30	95	99	26	26	65	28	10	M12	M12	3500	7925
2090-16	16													8490
2090-18	18													4610
2090-20	20													8850
2090-22	22													9030
2090-24	24													9490
2090-28	28													9800

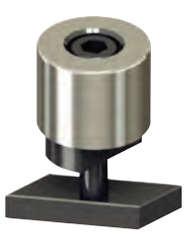




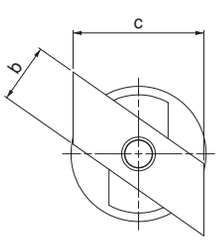


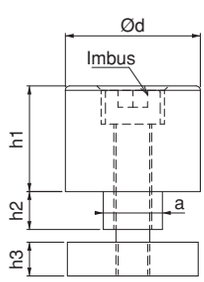


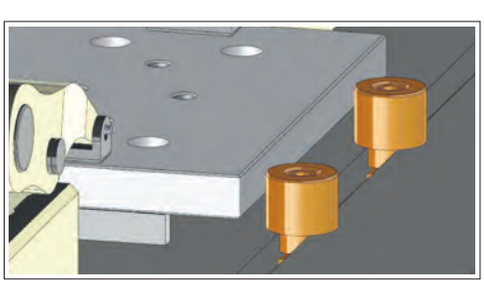
Silindir Dayama



Referans Nr.	a	a h6	b -0.6	c DIN 650	d ±0.01	h1 ±0.01	h1 ±0.02	h2	h3	ISO 4762	(g)
2120-1425	14	0-0.011	14	24	32	25	-	9	8	M8x35	200
2120-1450	14	0-0.011	14	24	32	-	50	9	8	M8x60	355
2120-1825	18	0-0.011	18	30	40	25	-	15	10	M10x40	360
2120-1850	18	0-0.011	18	30	40	-	50	15	10	M10x65	600
2120-2225	22	0-0.013	22	38	40	25	-	15	14	M10x50	410
2120-2250	22	0-0.013	22	38	40	-	50	15	14	M10x75	650



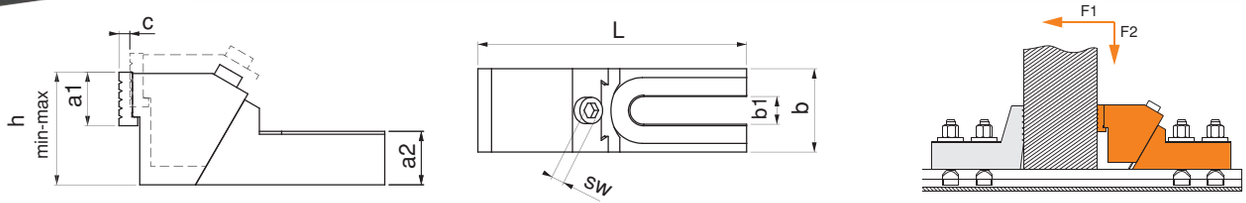




Blok Yandan Bağlama



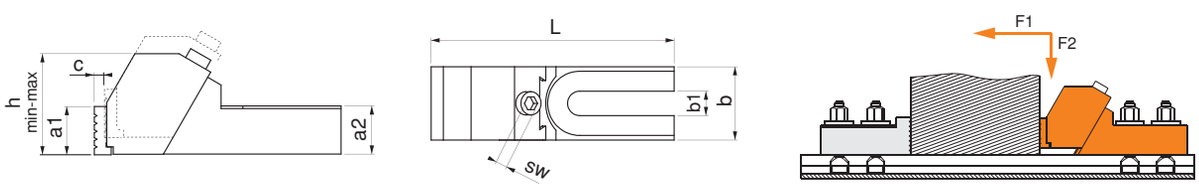
Referans Nr.	a	a1	a2	b	b1	c	h min-max	L	sw	F1 Sıkma kuvveti Clamping force Kgf	F2 Sıkma kuvveti Clamping force Kgf	(kg)
2095-571	14-16-18	37	37	57	19	8	78-98	185	10	2250	350	3.68
2095-761	20-22-24-28	37	45	76	26	11	98-118	240	14	3000	450	7.66



Blok Yandan Bağlama



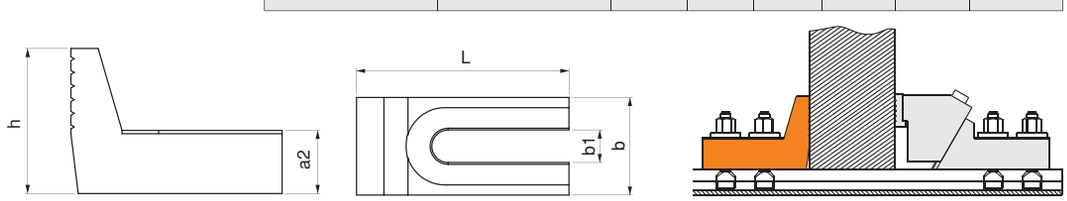
Referans Nr.	a	a1	a2	b	b1	c	h min-max	L	sw	F1 Sıkma kuvveti Clamping force Kgf	F2 Sıkma kuvveti Clamping force Kgf	(kg)
2095-572	14-16-18	37	37	57	19	8	78-98	185	10	2250	350	3.6
2095-762	20-22-24-28	37	45	76	26	11	98-118	240	14	3000	450	6.7



Blok Yandan Bağlama Dayaması

Referans Nr.	a	a2	b	b1	h	L	(kg)
2098-571	14-16-18	37	57	19	85	124	2.025
2098-761	20-22-24-28	45	76	26	105	154	4.185

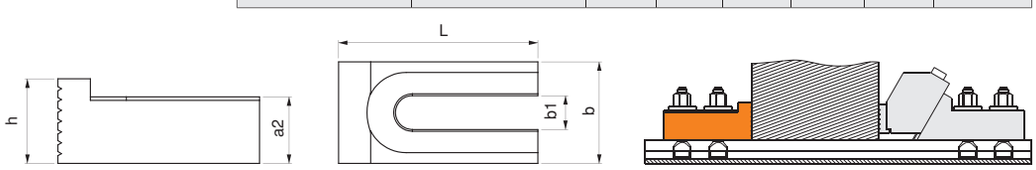




Blok Yandan Bağlama Dayaması

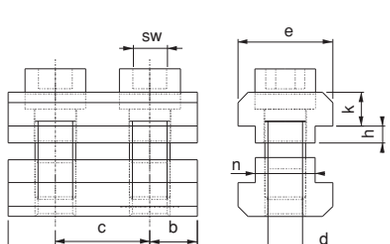
Referans Nr.	a	a2	b	b1	h	L	(kg)
2098-572	14-16-18	37	57	19	47	112	2.800
2098-762	20-22-24-28	45	76	26	49	140	4.185





Dayama



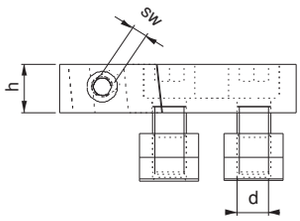


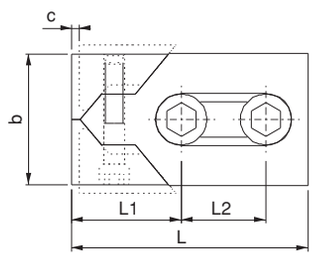
Referans Nr.	a	n	e	c	d	b	h	k	L	sw	(g)
2130-12	12	11.7	18	18	M8	9	3	7	36	6	100
2130-14	14	13.7	22	22	M8	11	4	8	44	6	180
2130-16	16	15.7	25	25	M12	12.5	5	9	50	10	270
2130-18	18	17.7	28	28	M12	14	5	10	56	10	355
2130-20	20	19.7	32	32	M16	16	5	12	64	14	570
2130-22	22	21.7	35	35	M16	17.5	6	14	70	14	770
2130-24	24	23.7	40	40	M20	20	6	16	80	17	1180
2130-28	28	27.7	44	44	M20	22	6	18	88	17	1560

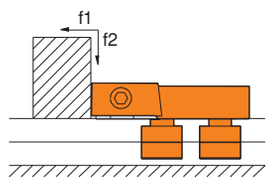
Çift Çeneli Yandan Bağlama Pabucu



Referans Nr.	a	c	h	b	L	L1	L2	sw	d	Sıkma Kuvveti Clamping Force f1 Kgf	f2 Kgf	(g)
2110-12	12	3	20	40	80	39	26	6	M10	1600	60	415
2110-14	14									2200	90	425
2110-16	16	4	25	50	100	46	34	8	M14	3200	120	785
2110-18	18									3600	140	810
2110-20	20									3600	140	850
2110-22	22	5	28.5	78	140	65	50	10	M20	3600	140	2275
2110-24	24									3600	140	2360
2110-28	28									4000	160	2500

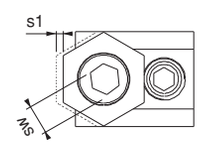


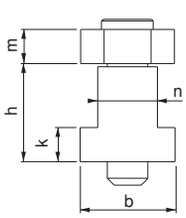




Kanal İçi Yandan Bağlama



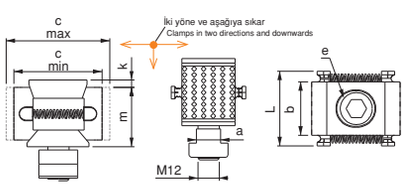




Referans Nr.	a	s1	m	sw	L	h	k	n	b	Sıkma Kuvveti Clamping Force kgf	(g)
2150-08	8	1.4	5	4	23	9.5	6	7.7	13	310	25
2150-10	10	1.4	5	4	23	14	6	9.7	15	310	35
2150-12	12	1.2	7	5	28	15	7	11.7	18	340	60
2150-14	14	1.7	7	7	30	22	8	13.7	22	800	95
2150-16	16	1.7	10	8	30	22	9	15.7	25	1500	130
2150-18	18	2	10	8	35	28	10	17.7	28	1500	190
2150-20	20	2.5	13	10	40	32	12	19.7	32	2000	290
2150-22	22	2.5	13	12	45	38	14	21.7	35	2000	390

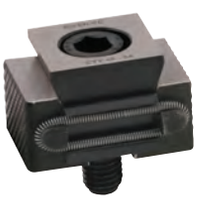
Çift Açılır Yandan Bağlama

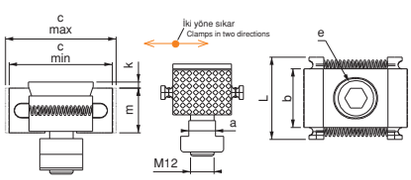




Referans Nr.	c min	c max	a	m	k	b	L	e DIN 912	Sıkma Kuvveti kgf	(g)
2190-5055	50	55	14-16-18-20-22	35	4	30	42	M12	1750	390

Çift Açılır Yandan Bağlama

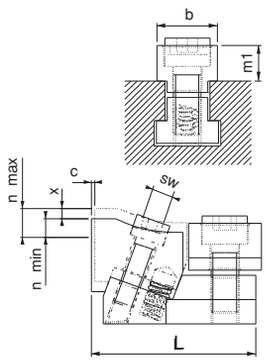




Referans Nr.	c min	c max	a	m	k	b	L	e DIN 912	Sıkma Kuvveti kgf	(g)
2210-4954	49	54	14-16-18-20-22	23	4	30	42	M12	1500	280

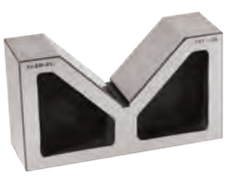
Yandan Bağlama Pençe Pabuç

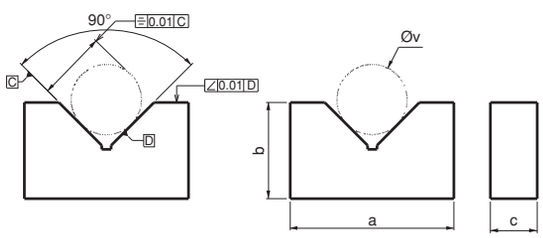




Referans Nr.	a	c	n min	n max	x	L	b	m1	sw	Sıkma Kuvveti Clamping Force f1 kgf	Sıkma Kuvveti Clamping Force f2 kgf	(g)
2170-12	12	2	2	6	4	46	21	10	5	500	60	120
2170-14	14	2.5	2.5	7.5	5	51	26	10	6	550	70	200
2170-16	16	3	2.5	8.5	6	61	27.5	12	6	800	90	290
2170-18	18	3	2	8	6	67	35	13	8	900	100	420
2170-20	20	4	2.5	11	8.5	78	38	13	10	1200	140	640
2170-22	22	4.5	2.5	12	9.5	87	39	16.5	10	1600	190	830

V-Yatak

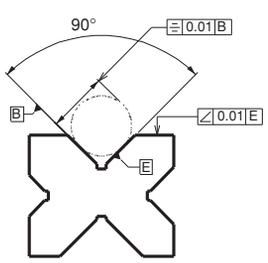




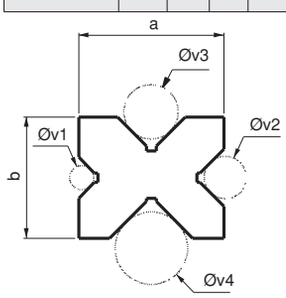
Referans Nr.	a	b	c	Øv min	Øv max	(g)
2270-140	140	82	40	20	110	1980
2270-204	204	115	66	15	150	6150

XV-Yatak

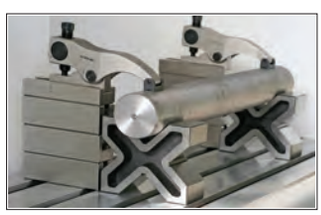




Referans Nr.	a	b	c	Øv1 min	Øv1 max	Øv2 min	Øv2 max	Øv3 min	Øv3 max	Øv4 min	Øv4 max	(g)
2290-120	120	100	60	12	40	12	60	12	75	12	90	2840
2290-150	152	132	74	15	80	15	95	15	110	15	120	4975



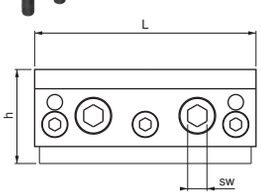


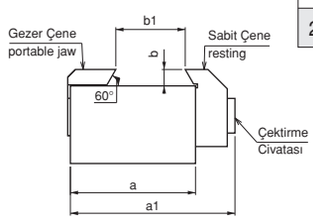


CNC 5 Eksen Parça Bağlama Aparatı





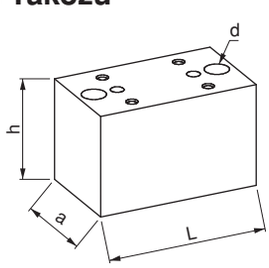




Referans Nr.	L	h	a	a1	b	b1	sw	(g)
2295-090	90	39	55	73	7	21-35	8	1480
2295-115	115	49	65	82.5	8.5	31-42	10	2690
2295-130	130	56	75	98	10	37-48	12	4160

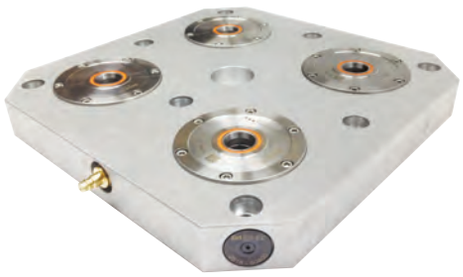
CNC 5 Eksen Parça Bağlama Takozu





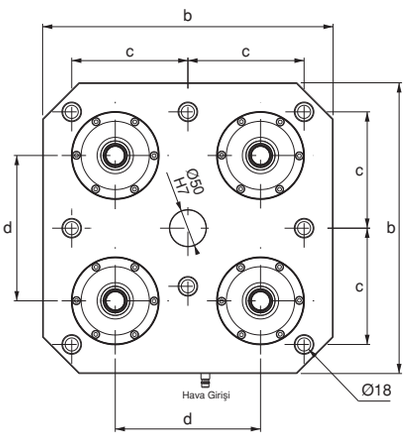
Referans Nr.	a	h	L	d	(g)
2297-090	55	58	87	M10	2110
2297-115	65	68	110	M12	3750
2297-130	75	80	126.5	M12	5830

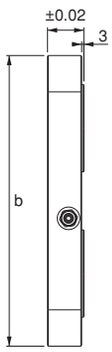
ER-EL Zero Clamp Uygulamalı Tabla



Referans Nr.	a	b	c	d	Zero Clamp adet / pcs.		sıkma kuvveti clamping force Kgf	(kg)
2475-50400	50	400	160	200	4	Ø120	4x2500=10000 kgf	24
2475-50500	50	500	200	350	4	Ø120	4x2500=10000 kgf	30
2475-50630	50	630	250	200	6	Ø120	6x2500=15000 kgf	44

- Ürünün uygulama alanı çizelgede sunulan ile sınırlı değildir. Farklı uygulamalarda yapılabilir.

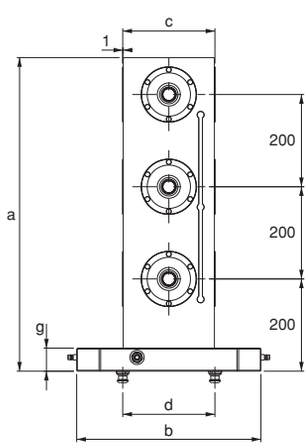


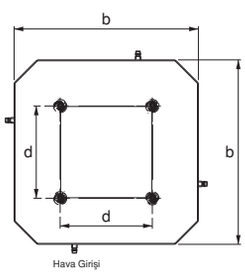


ER-EL Zero Clamp Uygulamalı Kule



Referans Nr.	a	b	c	d	g	Zero Clamp adet / pcs.		Çektirme Civatası Pull Stud adet / pcs.	sıkma kuvveti clamping force Kgf	(kg)
2480-400200	680	400	200	200	50	12	Ø120	4	3x2500=7500 kgf	100
2480-500200	680	500	200	350	50	12	Ø120	4	3x2500=7500 kgf	111
2480-630250	680	630	250	200	50	12	Ø138	6	3x4000=12000 kgf	178



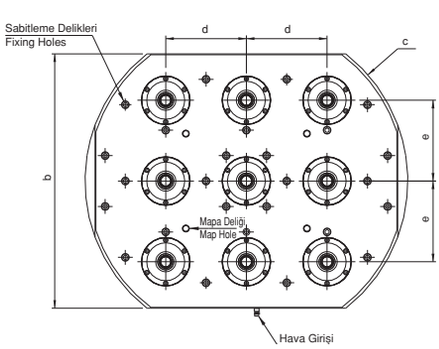


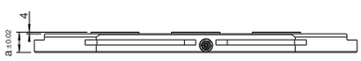
5-Eksen Zero Clamp Tabla



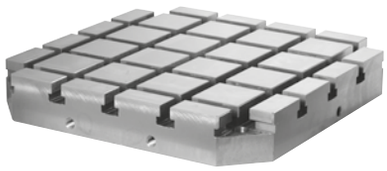


Referans Nr.	a	b	c	d	e		(kg)
2481-50630	50	630	800	200	200	Ø120	60

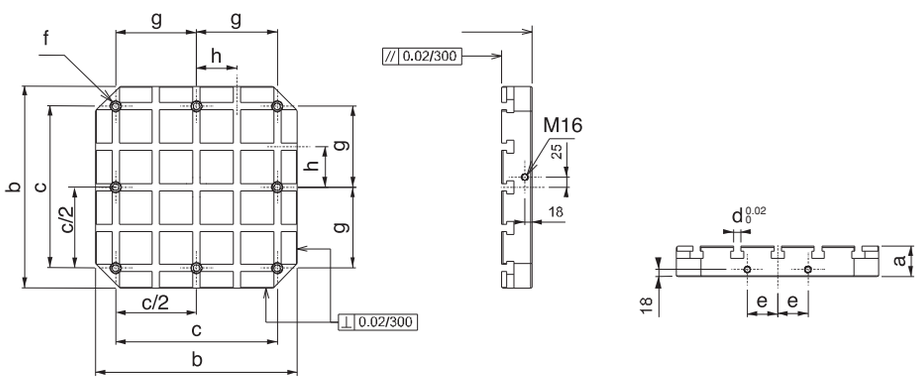




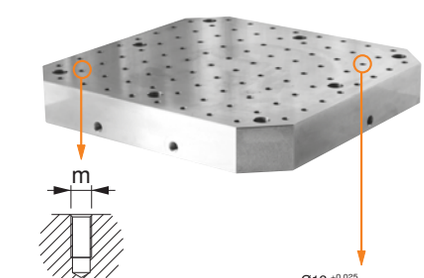
CNC Yatay İşleme Tablası



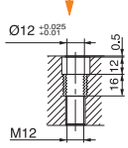
Referans Nr.	a ±0.02	b	c	d	e	f	g	h ±0.02	(kg)
2490-7540014	75	400	320	14	55	18	160	80	71
2490-7550014	75	500	400	14	75	18	200	100	115
2490-7563014	75	630	500	14	100	18	250	125	188
2490-7540018	75	400	320	18	55	18	160	80	65
2490-7550018	75	500	400	18	75	18	200	100	107
2490-7563018	75	630	500	18	100	18	250	125	178



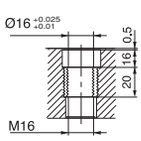
CNC Yatay İşleme Tablası



Gövdeye dişli
Referans Nr. 2510

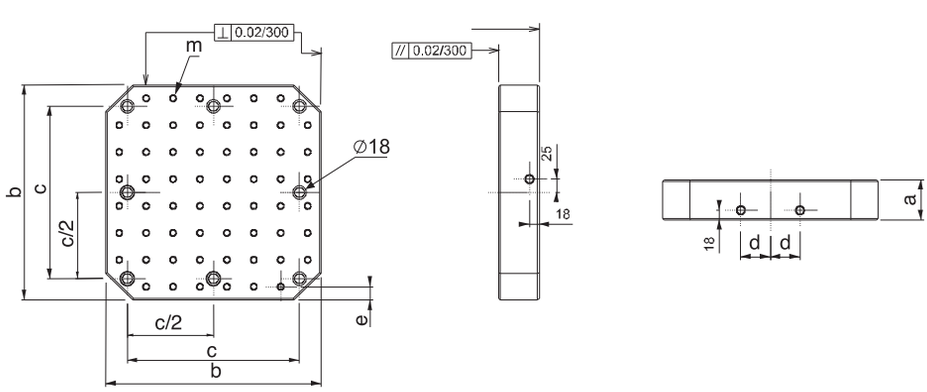


Çelik burçlu
Referans Nr. 2520



Referans Nr.	a ±0.02	b	c	d	e	m	(kg)
2510-7540012	75	400	320	55	25	M12	80
2510-7550012	75	500	400	75	25	M12	127
2510-7563012	75	630	500	100	40	M12	204
2510-7540016	75	400	320	55	25	M16	79
2510-7550016	75	500	400	75	25	M16	125
2510-7563016	75	630	500	100	40	M16	200

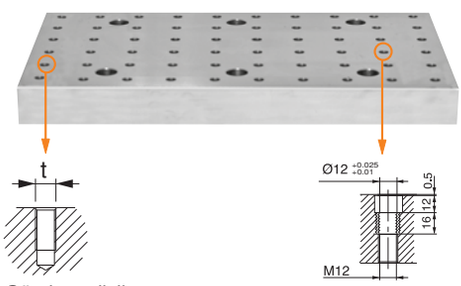
Referans Nr.	a ±0.02	b	c	d	e		(kg)
2520-7540012	75	400	320	55	25	M12	80
2520-7550012	75	500	400	75	25	M12	127
2520-7563012	75	630	500	100	40	M12	204
2520-7540016	75	400	320	55	25	M16	79
2520-7550016	75	500	400	75	25	M16	125
2520-7563016	75	630	500	100	40	M16	200



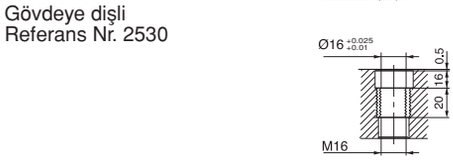
CNC Dik İşleme Pleyti

Referans Nr.	a	b	Ød	e	f	t	(kg)
2530-040012	400	600	18	-	-	M12	73
2530-050012	500	600	18	-	-	M12	112
2530-060012	600	800	18	-	-	M12	162
2530-140012	400	800	18	-	-	M12	119
2530-145012	450	900	18	-	-	M12	151
2530-150012	500	1000	18	-	-	M12	173

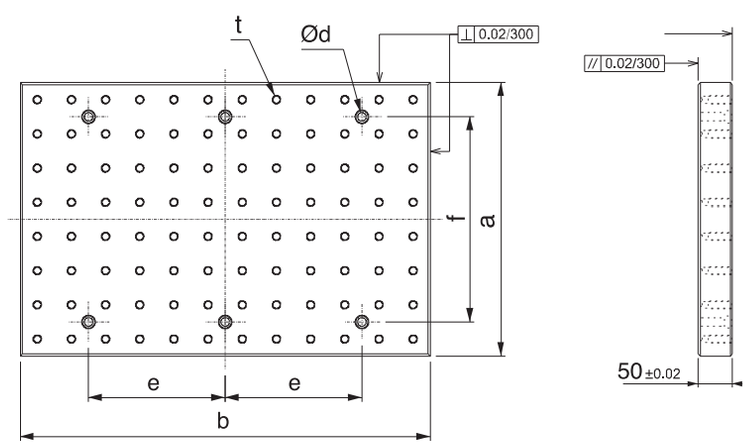
Referans Nr.	a	b	Ød	e	f	t	(kg)
2530-040016	400	600	18	-	-	M16	87
2530-050016	500	600	18	-	-	M16	108
2530-060016	600	800	18	-	-	M16	155
2530-140016	400	800	18	-	-	M16	115
2530-145016	450	900	18	-	-	M16	146
2530-150016	500	1000	18	-	-	M16	171



Gövdeye dişli
Referans Nr. 2530



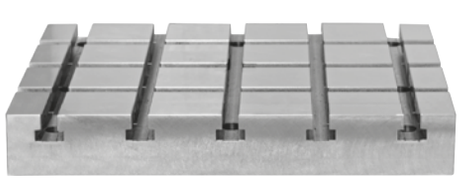
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Referans Nr. 2540

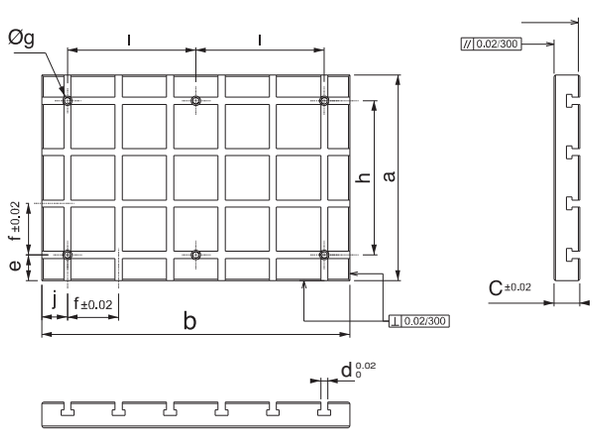


CNC Dik İşleme Pleyti

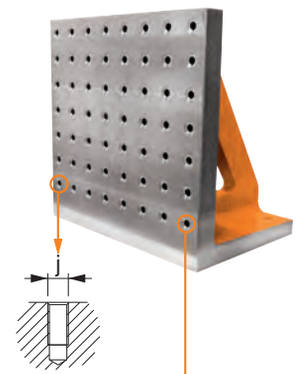
Referans Nr.	a	b	c	d	e	f	Øg	h	ı	j	(kg)
2550-040014	400	600	60	14	50	100	18	-	-	50	90
2550-050014	500	600	60	14	50	100	18	-	-	50	115
2550-060014	600	800	60	14	50	100	18	-	-	50	198
2550-140014	400	800	60	14	50	100	18	-	-	50	120
2550-145014	450	900	60	14	75	100	18	-	-	50	162
2550-150014	500	1000	60	14	50	100	18	-	-	50	199

Referans Nr.	a	b	c	d	e	f	Øg	h	ı	j	(kg)
2550-040018	400	600	75	18	50	100	18	-	-	50	108
2550-050018	500	600	75	18	50	100	18	-	-	50	135
2550-060018	600	800	75	18	50	100	18	-	-	50	216
2550-140018	400	800	75	18	50	100	18	-	-	50	143
2550-145018	450	900	75	18	75	100	18	-	-	50	183
2550-150018	500	1000	75	18	50	100	18	-	-	50	225

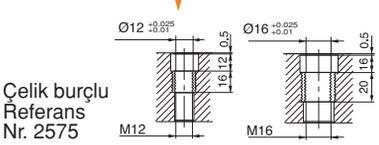




L Gönye

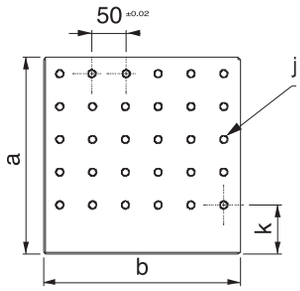


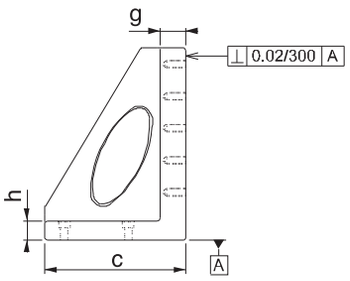
Gövdeye dişli
Referans Nr. 2570

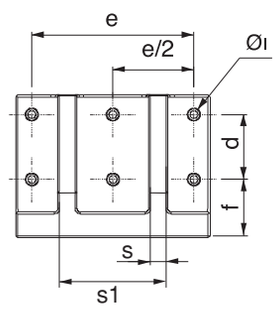


Çelik burçlu
Referans
Nr. 2575

Referans Nr.	a	b	c	d	e	f	g	h	Øı	j	k	s	s1	(kg)
2570-30012	300	300	220	100	250	90	40	30	18	M12	75	25	170	50
2570-40012	400	400	280	160	320	90	40	30	18	M12	75	30	240	88
2570-50012	500	500	345	200	400	90	50	35	18	M12	75	35	300	175
2570-63012	630	630	435	250	500	100	50	40	18	M12	105	40	360	298
2570-30016	300	300	220	100	250	90	40	30	18	M16	75	25	170	45
2570-40016	400	400	280	160	320	90	40	30	18	M16	75	30	240	84
2570-50016	500	500	345	200	400	90	50	35	18	M16	75	35	300	170
2570-63016	630	630	435	250	500	100	50	40	18	M16	105	40	360	293



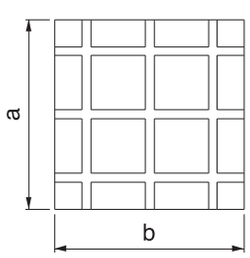


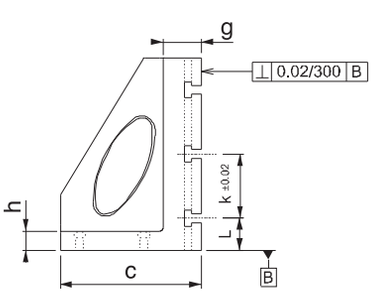


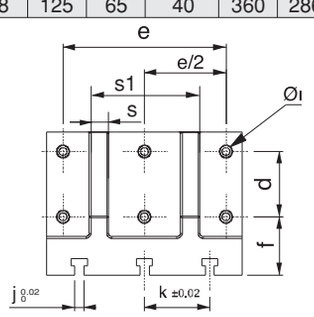
L Gönye



Referans Nr.	a	b	c	d	e	f	g	h	Øı	j	k	L	s	s1	(kg)
2590-30014	300	300	220	100	250	90	60	30	18	14	100	50	25	170	50
2590-40014	400	400	300	160	320	90	60	30	18	14	100	50	30	240	100
2590-50014	500	500	350	200	400	90	60	35	18	14	100	50	35	300	185
2590-63014	630	630	450	250	500	100	65	40	18	14	125	65	40	360	315
2590-30018	300	300	220	100	250	90	60	30	18	18	100	50	25	170	50
2590-40018	400	400	300	160	320	90	60	30	18	18	100	50	30	240	98
2590-50018	500	500	350	200	400	90	60	35	18	18	100	50	35	300	174
2590-63018	630	630	450	250	500	100	65	40	18	18	125	65	40	360	286



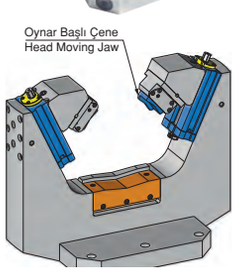


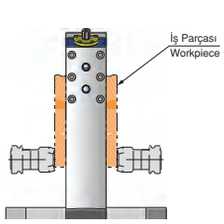


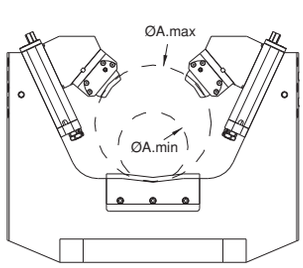
Çatal Kule

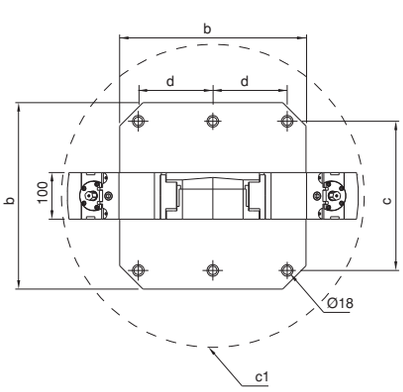


Referans Nr.	b	d	c	c1	A min.	A max.	Sıkma kuvveti Clamping force kgf
2600-400400	400	160	320	-	-	-	4000
2600-500500	500	200	400	-	-	-	4000
2600-630630	630	250	500	-	-	-	4000





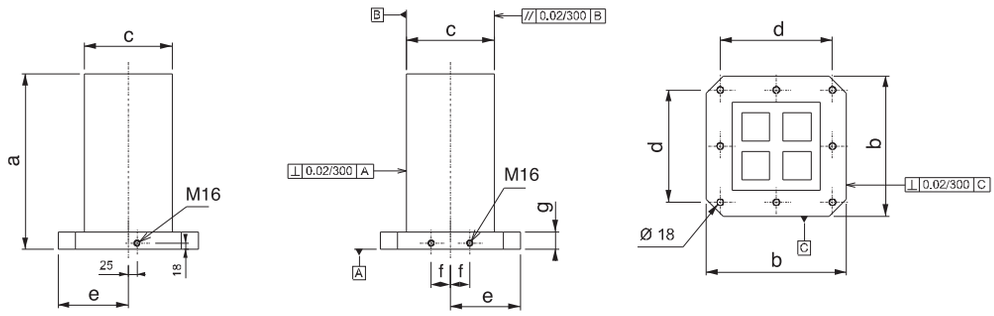




CNC Yatay İşleme Kulesi



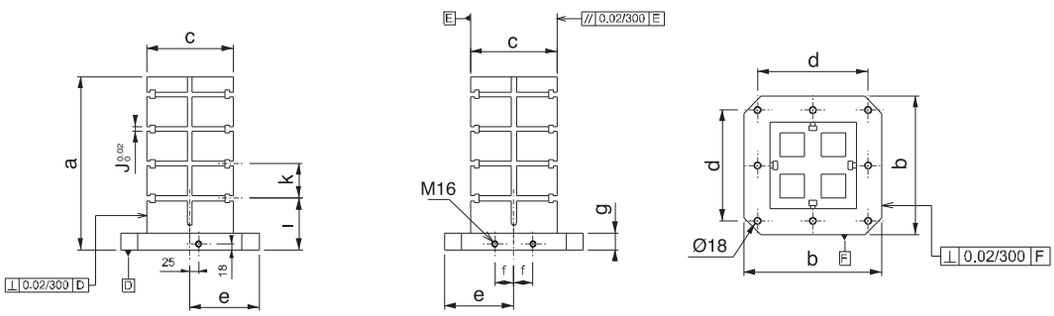
Referans Nr.	a	b	c	d	e	f	g	(kg)
2610-400250	500	400	250	320	200	55	50	180
2610-500300	600	500	300	400	250	75	50	240
2610-630350	700	630	350	500	315	100	50	390



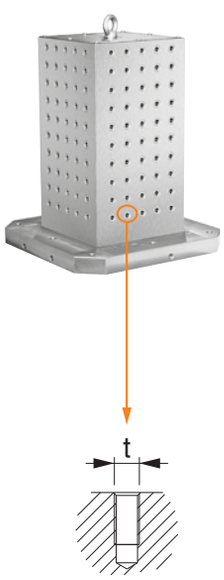
CNC Yatay İşleme Kulesi



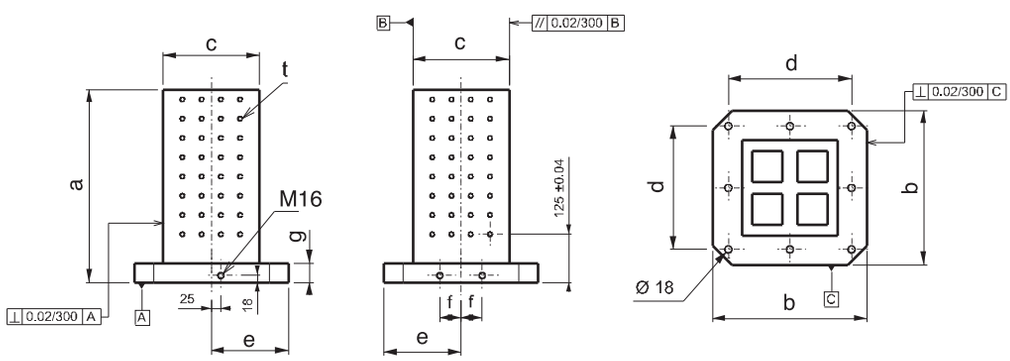
Referans Nr.	a	b	c	d	e	f	g	ı	k	J (0.02 0)	(kg)
2630-40025014	500	400	250	320	200	55	50	150	100	14	165
2630-50030014	600	500	300	400	250	75	50	150	100	14	227
2630-63035014	700	630	350	500	315	100	50	150	125	14	375
2630-40025018	500	400	250	320	200	55	50	150	100	18	155
2630-50030018	600	500	300	400	250	75	50	150	100	18	223
2630-63035018	700	630	350	500	315	100	50	150	125	18	370



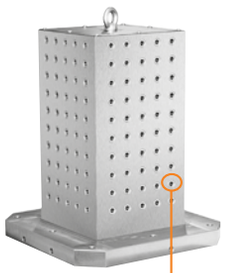
CNC Yatay İşleme Kulesi



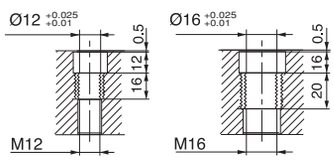
Referans Nr.	a	b	c	d	e	f	g	t	(kg)
2650-40025012	500	400	250	320	200	55	50	M12	170
2650-50030012	600	500	300	400	250	75	50	M12	230
2650-63035012	700	630	350	500	315	100	50	M12	380
2650-40025016	500	400	250	320	200	55	50	M16	168
2650-50030016	600	500	300	400	250	75	50	M16	228
2650-63035016	700	630	350	500	315	100	50	M16	376

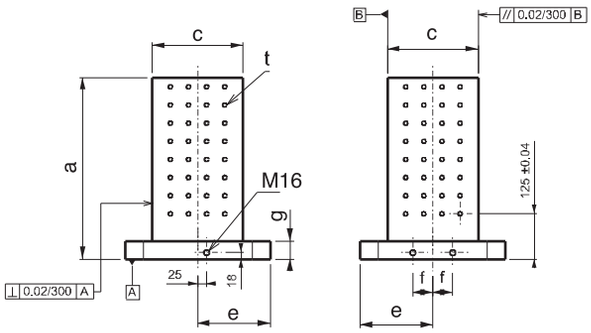


CNC Yatay İşleme Kulesi



Referans Nr.	a	b	c	d	e	f	g		(kg)
2660-40025012	500	400	250	320	200	55	50	M12	170
2660-50030012	600	500	300	400	250	75	50	M12	230
2660-63035012	700	630	350	500	315	100	50	M12	380
2660-40025016	500	400	250	320	200	55	50	M16	168
2660-50030016	600	500	300	400	250	75	50	M16	228
2660-63035016	700	630	350	500	315	100	50	M16	376

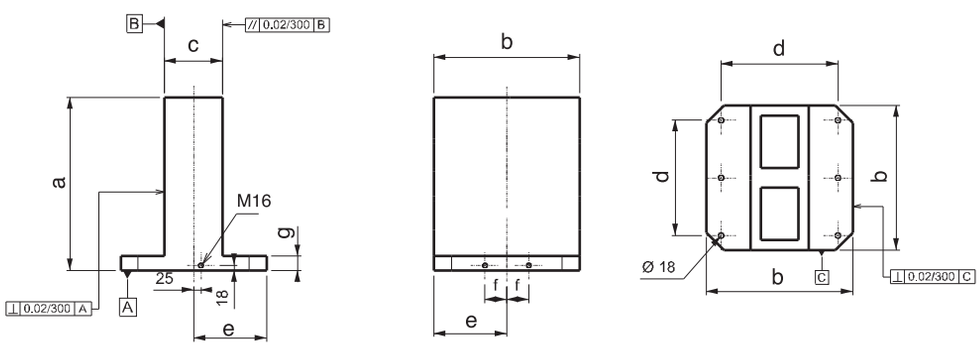




CNC Yatay İşleme Kulesi

Referans Nr.	a	b	c	d	e	f	g	(kg)
2670-400150	500	400	150	320	200	55	50	175
2670-500200	600	500	200	400	250	75	50	265
2670-630250	700	630	250	500	315	100	50	484

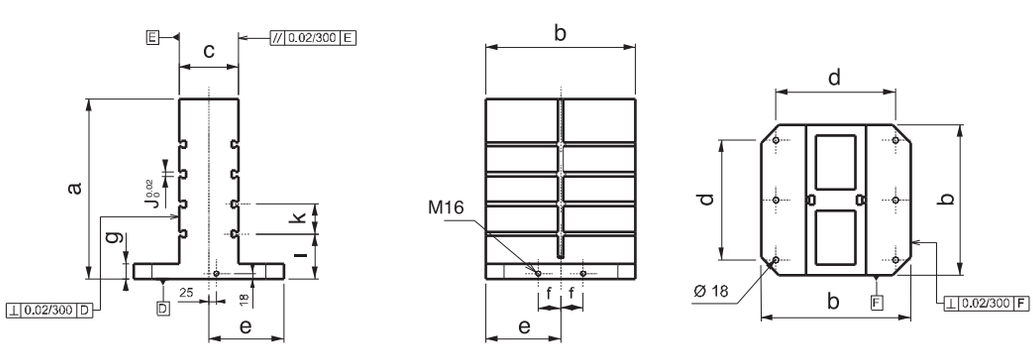




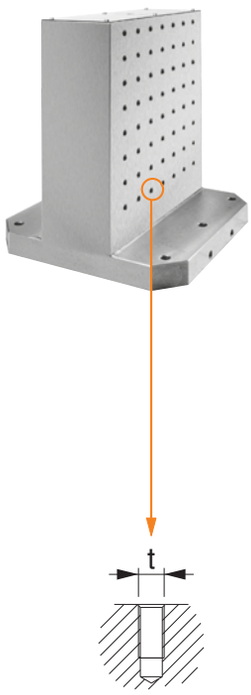
CNC Yatay İşleme Kulesi

Referans Nr.	a	b	c	d	e	f	g	ı	k (±0.02)	J (0.02 0)	(kg)
2690-40015014	500	400	150	320	200	55	50	150	100	14	165
2690-50020014	600	500	200	400	250	75	50	150	100	14	240
2690-63025014	700	630	250	500	315	100	50	150	125	14	455
2690-40015018	500	400	150	320	200	55	50	150	100	18	152
2690-50020018	600	500	200	400	250	75	50	150	100	18	238
2690-63025018	700	630	250	500	315	100	50	150	125	18	450

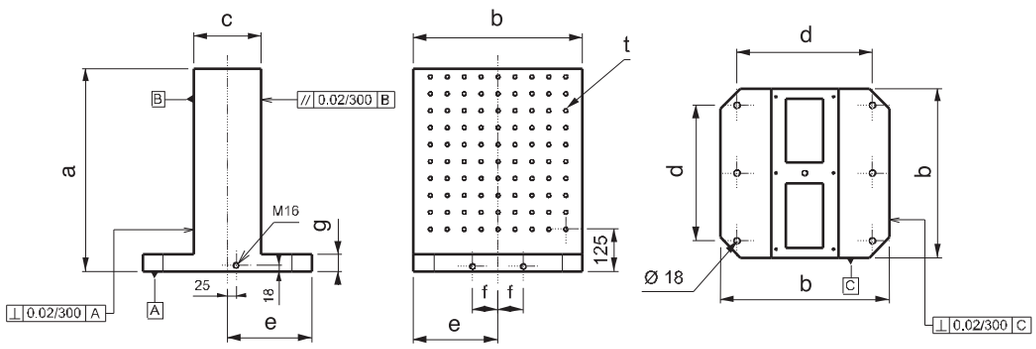




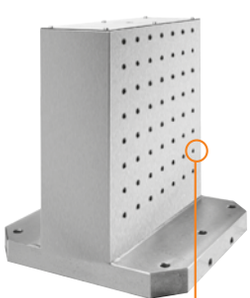
CNC Yatay İşleme Kulesi



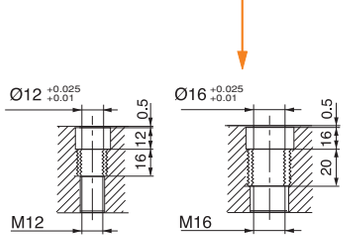
Referans Nr.	a	b	c	d	e	f	g	t	(kg)
2710-40015012	500	400	150	320	200	55	50	M12	170
2710-50020012	600	500	200	400	250	75	50	M12	250
2710-63025012	700	630	250	500	315	100	50	M12	475
2710-40015016	500	400	150	320	200	55	50	M16	164
2710-50020016	600	500	200	400	250	75	50	M16	248
2710-63025016	700	630	250	500	315	100	50	M16	470

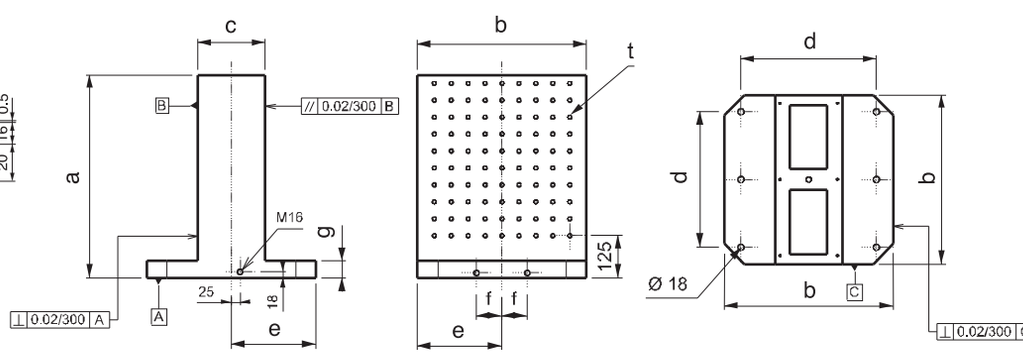


CNC Yatay İşleme Kulesi



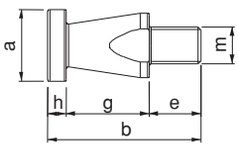
Referans Nr.	a	b	c	d	e	f	g		(kg)
2720-40015012	500	400	150	320	200	55	50	M12	170
2720-50020012	600	500	200	400	250	75	50	M12	250
2720-63025012	700	630	250	500	315	100	50	M12	475
2720-40015016	500	400	150	320	200	55	50	M16	164
2720-50020016	600	500	200	400	250	75	50	M16	248
2720-63025016	700	630	250	500	315	100	50	M16	470

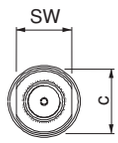




Kalıp Taşıma Mapası



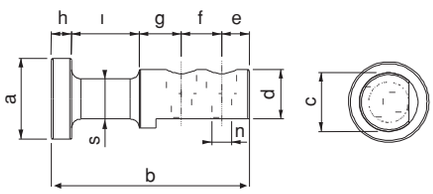




Referans Nr.	m	a	b	c	sw	e	g	h	Bir mapanın taşıma kuvveti Kgf	(g)
2730-016	M16	39	85	35	30	30	45	10	660	370
2730-020	M20	39	85	35	30	30	45	10	1000	390

Kalıp Taşıma Mapası



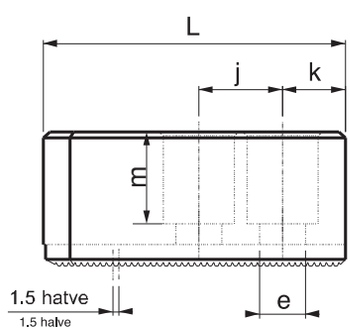


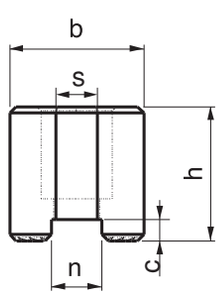
Referans Nr.	a	b	c	d	e	f	g	h	ı	n	s	Bir mapanın taşıma kuvveti Kgf	g
2750-044	44	108	32	27	15	22	23	11	37	11	22	400	525

CNC Yumuşak Ayak



Referans Nr.	inch	hatve halve	L	b	h	n t7	c	k	j	e	m	s	Ø min	(g)
2770-0612	6” inch	1.5x60	72	32	32	12	5	15	20	11	22	10	6.5	1460
2770-0814	8” inch	1.5x60	98	37	37	14	5	24	25	13	22	14	8.5	2785
2770-1016	10” inch	1.5x60	110	42	42	16	5	30	30	13	29	14	10	4060
2770-1218	12” inch	1.5x60	130	50	52	18	5	39	30	15	32	17	12	6510
2770-1221	12” inch	1.5x60	130	50	52	21	5	39	30	17	32	19	12	6575
2775-0612	6” inch	1.5x60	72	28	37	12	5	15	20	11	17	10	6.5	1415
2775-0814	8” inch	1.5x60	95	35	67	14	5	24	25	13	19	14	8.5	4465
2775-1016	10” inch	1.5x60	110	38	77	16	5	30	30	13	19	14	10	6850
2775-1218	12” inch	1.5x60	130	48	77	18	5	39	30	15	23	17	12	10075
2775-1221	12” inch	1.5x60	130	48	77	21	5	39	30	17	23	19	12	9600

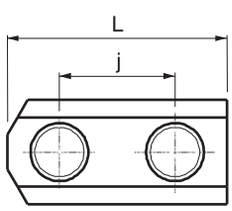


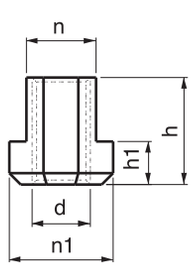


Yumuşak Ayak T-Pabucu



Referans Nr.	inch	L	h	n T6	n1	h1	d	j	(g)
2790-0610	6” inch	38	18.5	12	18	7.5	M10	20	55
2790-0812	8” inch	45	21.5	14	21	8.5	M12	25	85
2790-1012	10” inch	52	21.5	16	22	8.5	M12	30	115
2790-1214	12” inch	55	33.5	18	26.5	13.5	M14	30	225
2790-1216	12” inch	55	27	21	29	13.5	M16	30	210

















Not : Her nevi iş parçasını bağlamak için mekanik, pnömatik ve hidrolik fikstür uygulamaları yapılmaktadır.
Note : To connect all kinds of workpiece, mechanical, pneumatic and hydraulic fixture applications are made.

Dik Bağlama Elemanı



Kod	F1 (kN)	F2 ⇧(kN)				g
800-0	0.5	0.7	90	50	M4x25	50
800-1	0.8	1.1	105	60	M5x30	114
800-2	1.0	1.2	140	76	M6x35	178
800-3	1.8	2.5	200	105	M8x45	400
800-4	2.0	3.0	230	140	M8x65	630
800-5	3.0	5.0	265	190	M12x80	1500
800-6	3.5	5.5	300	230	M12x110	2160

Dik Bağlama Elemanı



Kod	F1 (kN)	F2 ⇧(kN)				g
802-1	0.8	1.1	117	60	M5x30	114
802-2	0.8	1.2	153	76	M6x35	178
802-3	1.8	2.5	210	105	M8x45	400
802-4	2.0	3.0	255	140	M8x65	630
802-5	3.0	5.0	323	190	M12x80	1500

Dik Bağlama Elemanı



Kod	F1 (kN)	F2 ⇧(kN)				g
803-1	0.8	1.1	132	60	M5x30	125
803-2	0.8	1.2	135	76	M6x35	220
803-3	1.8	2.5	235	105	M8x45	470
803-4	2.0	3.0	270	141	M8x65	650

Yatay Bağlama Elemanı



Kod	F1 (kN)	F2 ⇧(kN)				g
830-0	0.25	0.4	23	85	M4x25	37
830-1	0.8	1.1	30	128	M5x30	112
830-2	1.0	1.2	44	158	M6x35	182
830-3	1.8	2.5	48	221	M8x45	340
830-4	2.0	3.0	74	293	M8x65	700
830-5	3.0	5.0	71	330	M12x80	1170

Yatay Bağlama Elemanı



Kod	F1 (kN)	F2 ⇧(kN)				g
832-0	0.25	0.4	32	85	M4x25	37
832-1	0.8	1.1	42	128	M5x30	112
832-2	1.0	1.2	59	158	M6x35	182
832-3	1.8	2.5	63	221	M8x45	340
832-4	2.0	3.0	96	293	M8x65	700
832-5	3.0	5.0	93	330	M12x80	1170

Yatay Bağlama Elemanı



Kod	F1 (kN)	F2 ⇧(kN)				g
833-2	1.0	1.2	94	155	M6x35	250
833-3	1.8	2.5	86	221	M8x45	400
833-4	2.0	3.0	97	261	M8x65	750

İtme Çekme Tipi Bağ. Elemanı



Kod	F1 ⇨ (kN)	F2 ⇦ (kN)				g
841-0	0.8	0.8	40	110	M4x20	80
841-1	1.0	1.0	58	120	M4x20	120
841-2	2.0	2.0	80	175	M6x25	270
841-3	2.5	2.5	102	190	M8x35	450
841-5	4.5	4.5	123	230	M12x50	880

İtme Çekme Tipi Bağ. Elemanı



Kod	F1 ⇨ (kN)	F2 ⇦ (kN)				g
842-3	4.0	4.0	115	191	M8x35	630
842-5	10.0	10.0	133	245	M12x50	1620
842-7	25.0	25.0	170	333	M12x50	3610

İtme Çekme Tipi Bağ. Elemanı



Kod	F1 ⇨ (kN)	F2 ⇦ (kN)				g
844-2	1.0	1.0	85	70	M6x35	130
844-3	2.5	2.5	135	110	M8x35	320
844-5	4.0	4.0	155	175	M12x50	1200

İtme - Basma Tipi Bağ. Elemanı



Kod	F1 ⇨ (kN)	F2 ⇦ (kN)	g
860-2	2.0	2.0	1500
860-3	3.0	3.0	2300

Dik Bağlama Elemanı



Kod	⇦ (kN)	Ayar Aralığı (mm)			g
847-1	2.0	5	33	130	100
847-3	3.0	12	36	230	300
847-5	5.0	12	70	310	850

Kancalı Bağlama Elemanı



Kod	⇦ (kN)	Ayar Aralığı (mm)			g
848-1	1.0	26	28	60	90
848-2	1.4	32	43	70	110
848-3	2.5	42	64	102	300
848-4	4.5	55	84	140	710

Mafsallı Baskı Civatası



Kod		h	L	g
891-0	M4 x 25	18.5	31	7.70
891-1	M5 x 30	22	38	13.80
891-2	M6 x 35	25	43	19.80
891-3	M8 x 45	29	57	44.20
891-4	M8 x 65	47	77	63.30
891-5	M12 x 80	56	97	165.40

Çapraz Kol



Kod				g
895-1	M5 x 30	22 - 72	85	65
895-2	M6 x 35	28 - 85	100	90
895-3	M8 x 45	34 - 100	120	200
895-4	M8 x 65	40 - 100	150	370
895-5	M8 x 65	40 - 125	150	370

Koruyucu Lastik



Kod				g
893-0	M4	11	8.5	1
893-1	M5	12	9	1
893-2	M6	15	11.5	2
893-3	M8	19	14	4
893-4	M10	24	17	6
893-5	M12	25	20	8

Dik Pnömatik Bağlama Elemanı



Kod	F1 ⇧ (kN)	F2 (kN)	F3* ⇩ (kN)	F4 (kN)	F5 ⇦ (kN)	Vn**				g
600-2	1.0	1.2	0.7	1.0	0.30	0.26	170	130	M6x35	800
600-3	1.4	2.5	0.6	1.1	0.50	0.35	205	160	M8x45	1100
600-4	2.0	3.0	1.5	2.0	0.75	0.08	260	220	M8x65	1600

Dik Pnömatik Bağlama Elemanı



Kod	F1 ⇧ (kN)	F2 (kN)	F3* ⇩ (kN)	F4 (kN)	F5 ⇦ (kN)	Vn**				g
620K-1	0.8	1.1	0.2	0.3	0.10	0.08	52	175	M5x30	610
620K-2	1.0	1.2	0.7	1.0	0.30	0.26	64	200	M6x35	870
620K-3	1.4	2.5	0.65	1.1	0.50	0.35	85	250	M8x45	1160
620K-4	2.0	3.0	1.5	2.2	0.75	0.80	100	290	M8x65	1900

İtme Tipi Pnömatik Bağ. Elm.

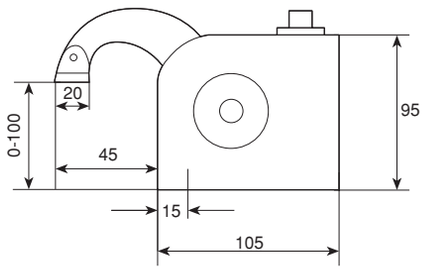


Kod	F1 ⇧ (kN)	F2 (kN)	F3* ⇦ (kN)	Vn**				g
650-3	4.0	2.5	0.75	0.8	85	320	M8x35	2000
650-5	10.0	5.0	1.0	2.2	115	450	M12x50	3500
650-7	25.0	-	1.0	4.5	150	533	M12x50	7680

MB-1011



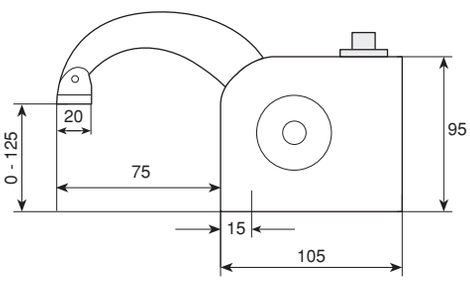
T- Kanal Elemanı 12-14-16-18-20 mm
Ağırlık : 1700 gr. Genişlik : 40 mm.
Bağlama Kuvveti: 16 kN



MBU-1031



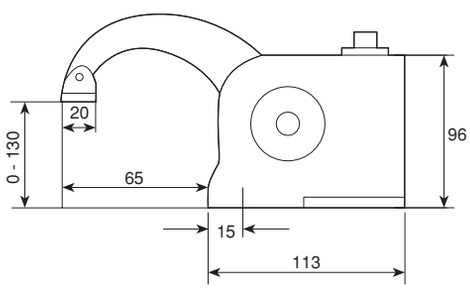
T- Kanal Elemanı 12-14-16-18-20 mm
Ağırlık : 1800 gr. Genişlik : 40 mm.
Bağlama Kuvveti: 16 kN



MFB-2041



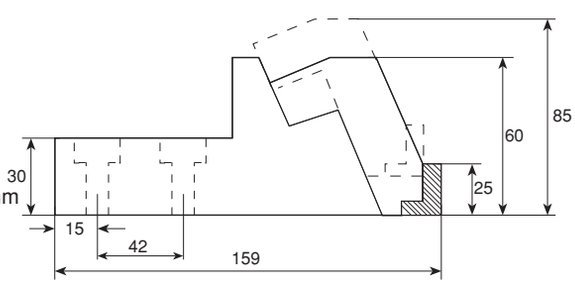
T- Kanal Elemanı 12-14-16-18-20 mm
Ağırlık : 1700 gr. Genişlik : 40 mm.
Bağlama Kuvveti: 16 kN



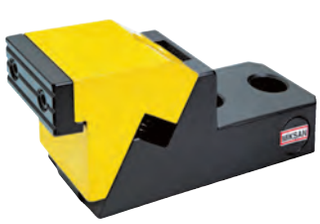
MYB-3031



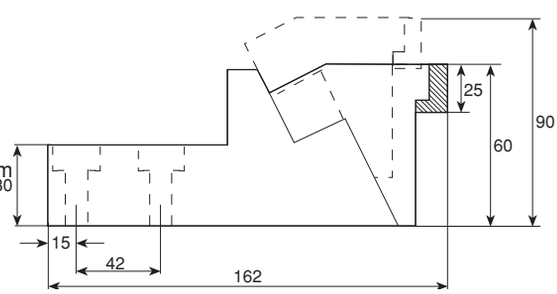
T- Kanal Elemanı 14-16-18-20- 22- 24 mm
Ağırlık : 2800 gr. Genişlik : 54 mm.



MYB-4041



T- Kanal Elemanı 14-16-18-20- 22- 24 mm
Ağırlık : 2800 gr. Genişlik : 54 mm.



VEFA
KALIP MARKET
ve KALIP SETLERİ

ÜRÜN GRUBU

06

Ölçüm Aletleri

Bu bölümde

01 Kumpas ve mikrometre

02 Komparatör ve mihengir

03 Açı ve yüzey kontrolü

Teknik not

Ölçü ve stok bilgileri sipariş öncesinde teklif üzerinde teyit edilir.

Dijital Kumpas



Kod	Ölçüm Aralığı	Doğruluk
1108-150	0-150mm/0-6"	±0,02 mm
1108-200	0-200mm/0-3"	±0,03 mm
1108-250	0-250mm/0-10"	±0,03 mm
1108-300	0-300mm/0-12"	±0,03 mm
1108-150W	0-150mm/0-6"	±0,02 mm
1108-200W	0-200mm/0-8"	±0,03 mm
1108-250W	0-250mm/0-10"	±0,03 mm
1108-300W	0-300mm/0-12"	±0,03 mm

Çiftçene Dijital Kumpas



Kod	Ölçüm Aralığı	Doğruluk
1117-301	0-300mm/0-12"	±0,05 mm
1117-501	0-500mm/0-20"	±0,05 mm
1117-502	0-500mm/0-20"	±0,06 mm
1117-601	0-600mm/0-24"	±0,05 mm
1117-802	0-800mm/0-32"	±0,07 mm
1117-1002	0-1000mm/0-40"	±0,08 mm

Tekçene 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 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

Dijital Kumpas IP 67 Korumalı

Suya ve Toza Karşı Korumalı



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

Monoblok 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"

Çiftçene 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"

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"

Dijital İç Çap Kumpası



Kod	Ölçüm Aralığı	Doğruluk
1120-150A	22 - 150 mm	±0,04 mm
1120-200A	25 - 200 mm	±0,04 mm
1120-300A	30 - 300 mm	±0,05 mm

Mekanik Derinlik Kumpası

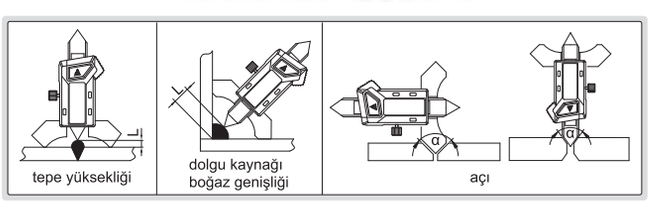


Kod	Ölçüm Aralığı	Hassasiyet
1240-150	0 - 150 mm	±0,05 mm
1240-200	0 - 200 mm	±0,05 mm
1240-300	0 - 300 mm	±0,05 mm
1240-500	0 - 500 mm	±0,05 mm

Kod	Hassasiyet
1240-1501	±0,02 mm
1240-2001	±0,02 mm
1240-3001	±0,02 mm
1240-5001	±0,02 mm

Dijital Kaynakçı Kumpası 4831-20A





Çift Sütunlu Dijital Yük. Mihengiri



Kod	Ölçüm Aralığı	Sütun
1151-300	0-300mm/0-12"	2
1151-450	0-450mm/0-18"	2
1151-500	0-500mm/0-20"	2
1151-600	0-600mm/0-24"	2
1151-1000	0-1000mm/0-40"	3

Dijital Derinlik Kumpası



Kod	Ölçüm Aralığı
1141-150A	0 - 150 mm
1141-200A	0 - 200 mm
1141-300A	0 - 300 mm
1141-500A	0 - 500 mm

Derinlik Kumpası Aparatı



- Derinlik ölçümlerinde doğruluğu arttırmak için kullanılır.
- Paslanmaz çelikten yapılmıştır.
- Dijital, mekanik ve saatli kumpaslar için uygundur.

Kod	Taban Uzunluğu
6140	76mm/3"

Saatli Yükseklik Mihengiri



Kod	Ölçüm Aralığı	Sütun
1351-300	0-300mm	2
1351-450	0-450mm	2
1351-500	0-500mm	2
1351-600	0-600mm	2
1351-1000	0-1000mm	3

Mekanik Yükseklik Mihengiri



Kod	Ölçüm Aralığı
250-300	0-300mm/0-12"
1250-450	0-450mm/0-18"
1250-500	0-500mm/0-20"
1250-600	0-600mm/0-24"
1250-1000	0-1000mm/0-40"
1250-1500	0-1500mm/0-60"

Dijital Yükseklik Mihengiri



Kod	Ölçüm Aralığı
1150-300	0-300mm/0-12"
1150-500	0-500mm/0-20"
1150-600	0-600mm/0-24"
1150-1000	0-1000mm/0-40"
1150-1500	0-1500mm/0-60"
1150-2000	0-2000mm/0-80"

Mekanik Dış Çap Mikrometresi



Kod	Ölçüm Aralığı
3205-400	300-400mm
3205-500	400-500mm
3205-600	500-600mm
3205-700	600-700mm
3205-800	700-800mm
3205-900	800-900mm

Kod	Ölçüm Aralığı
3205-1000	900-1000mm
3205-1200	1000-1200mm
3205-1400	1200-1400mm
3205-1600	1400-1600mm
3205-1800	1600-1800mm
3205-2000	1800-2000mm

İç Çap Mikrometresi



Kod	Ölçüm Aralığı	Doğruluk
3220-30	0-30 mm	7µm
3220-50	25-50 mm	8µm
3220-75	50-75 mm	9µm
3220-100	75-100 mm	10µm

İç Çap Komparatörü



Kod	Ölçüm Aralığı	Kol Boyu
2222-15	5-15mm	20mm
2222-20	10-20mm	25mm
2222-30	20-30mm	30mm
2222-40	30-40mm	30mm
2222-50	40-50mm	30mm

Kod	Ölçüm Aralığı	Kol Boyu
2222-25	5-25mm	35mm
2222-301	10-30mm	55mm
2222-401	20-40mm	80mm
2222-501	30-50mm	80mm
2222-60	40-60mm	80mm

Mekanik Dış Çap Mikrometresi



Set

Kod	Ölçüm Aralığı
3203-25	0-25mm
3203-50	25-50mm
3203-75	50-75mm
3203-100	75-100mm
3203-125	100-125mm
3203-150	125-150mm

Kod	Ölçüm Aralığı
3203-175	150-175mm
3203-200	175-200mm
3203-225	200-225mm
3203-250	225-250mm
3203-275	250-275mm
3203-300	275-300mm

Kod	Ölçüm Aralığı
3203-753	0-75mm (3pcs)
3203-1004	0-100mm (4pcs)
3203-1506	0-150mm (6pcs)
3203-3006	150-300mm (6pcs)
3203-3012	0-300mm (12pcs)

Dijital Dış Çap Mikrometresi



Kod	Ölçüm Aralığı	Doğruluk
3109-25A	0-25 mm/0-1"	±2µm
3109-50A	25-50 mm/0-2"	±2µm
3109-75A	50-75 mm/2-3"	±3µm
3109-100A	75-100 mm/3-4"	±3µm

Dijital Derinlik Mikrometresi



Kod	Ölçüm Aralığı
3540-50	0-50 mm/0-2"
3540-150	0-150 mm/0-6"
3540-300	0-300 mm/0-12"

Dış Çap Komparatörü



Kod	Ölçüm Aralığı	Kol Boyu
2333-10	0-10mm	40mm
2333-20	10-20mm	40mm
2333-30	20-30mm	40mm
2333-40	30-40mm	40mm
2333-50	40-50mm	40mm

Kod	Ölçüm Aralığı	Kol Boyu
2333-201	0-20mm	80mm
2333-301	10-30mm	80mm
2333-401	20-40mm	80mm
2333-501	30-50mm	80mm
2333-601	40-60mm	80mm

Kompretör Saati



Kod	Ölçüm Aralığı	Hassasiyet
2308-3F	0-3mm	0.01mm
2308-5F	0-5mm	0.01mm
2308-10F	0-10mm	0.01mm

Salgı Kompretörü



Kod	Direnç	Hassasiyet	Uç Boyu
2380-08	0-0.8mm	0.01 mm	16,5
2381-08	0-0.8mm	0.01 mm	16,5
2380-02	0.2 mm	0.002 mm	16
2381-02	0.2 mm	0.002 mm	16

Dijital Kompretör Saati

Çözünürlük 0,001 mm / 0,00005”

Kod	Ölçüm Aralığı	Doğruluk
2112-101F	12,7 mm / 0,5”	5µm
2112-251F	25,4 mm / 1”	5µm
2112-501F	50,8 mm / 2”	6µm
2112-101	12,7 mm / 0,5”	5µm
2112-251	25,4 mm / 1”	5µm
2112-501	50,8 mm / 2”	6µm

Çözünürlük 0,01 mm / 0,0005”

Kod	Ölçüm Aralığı	Doğruluk
2112-10F	12,7 mm / 0,5”	20µm
2112-25F	25,4 mm / 1”	20µm
2112-50F	50,8 mm / 2”	30µm
2112-10	12,7 mm / 0,5”	20µm
2112-25	25,4 mm / 1”	20µm
2112-50	50,8 mm / 2”	30µm



Uzun Problu Salgı Kompretörü



Kod	Ölçüm Aralığı	Hassasiyet
2383-08A	0,8 mm	0,01 mm

Manyetik Ayaklar



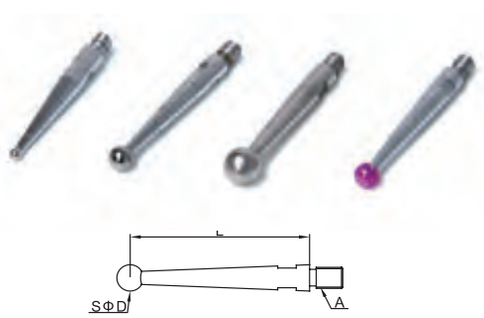
6207-80A
80 kgf

6204-40
40 kgf

6201-60
60 kgf

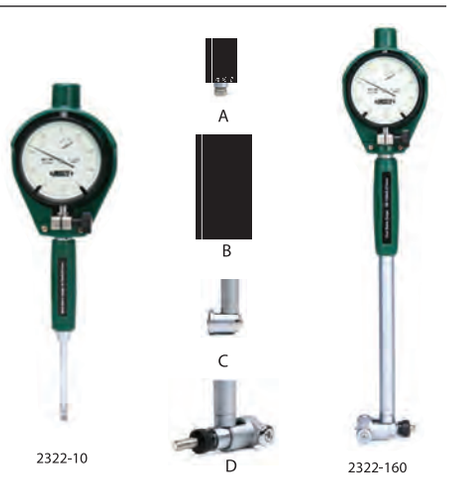
6208-80
80 kgf

Salgı Kompretörü Yedek Uçları



Delik (Silindir) Komparatörü

Kod	Ölçüm Aralığı	Derinlik	Örs Tipi
2322-10	6-10mm	40mm	A
2322-18	10-18mm	100mm	B
2322-35	18-35mm	150mm	C
2322-50	35-50mm	150mm	D
2322-100	50-100mm	150mm	D
2322-160	50-160mm	150mm	D
2322-250	160-250mm	400mm	D
2322-450	250-450mm	400mm	D



2322-10

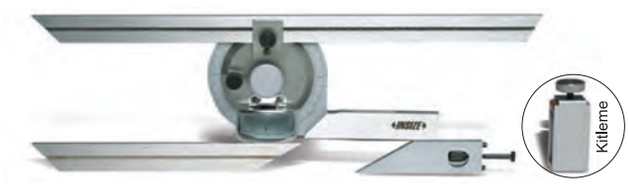
2322-160

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 Mercekli Gönye



Kod : 2372-360 Açı : 360°

Geniş Tabanlı Gönye

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



90° Kıl 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

Radüs Mastarı



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

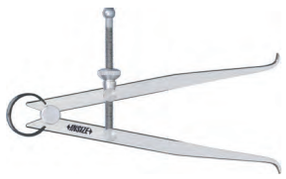
Hassas Su Terazisi



Kod	Ölçüler	Hassasiyet
4901-150	150mm	0.02mm/m
4901-200	200mm	0.02mm/m
4901-250	250mm	0.02mm/m
4901-300	300mm	0.02mm/m

Pergeller





Ayarlı Düz Pergel

Kod	Boyut	Ölç. Aralığı
7260-150	150 mm	0-150 mm
7260-200	200 mm	0-210 mm
7260-250	245 mm	0-260 mm
7260-300	300 mm	0-320 mm

İç Çap Pergel

Kod	Boyut	Ölç. Aralığı
7261-150	150 mm	20-170 mm
7261-200	200 mm	22-220 mm
7261-250	245 mm	30-270 mm
7261-300	300 mm	30-320 mm

Merkezleme Kompretörü

Kod : 2385 - 3
Direnç : 0-3mm

Kod : 2385-12
Direnç : 0-0.15''



Manyetik İletken V Blok



Kod : 6892 - 1 **Ebat :** 110x60x48mm

V Blok



Kod	Ölçüler	Kapasite
6895-1	35x35x45mm	25mm
6895-2	40x40x50mm	35mm
6895-3	41x35x44mm	35mm
6895-4	51x45x50mm	40mm

Manyetik V Blok

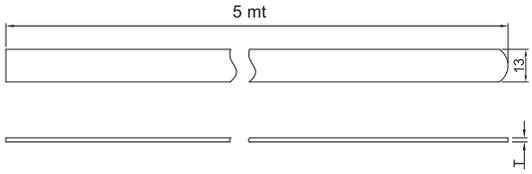


Kod	Ölçüler	Kapasite
6890-701	70x54x73mm	38mm/1.5"
6890-702	70x60x73mm	44mm/1.7"
6890-703	80x56x73mm	40mm/1.6"

Kod	Ölçüler	Kapasite
6890-704	124x60x73mm	44mm/1.7"
6890-705	127x60x73mm	38mm/1.5"
6890-706	101x76x78mm	56mm/2.2"

Layner Bant





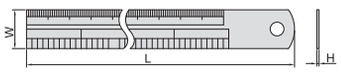
Kod	T
4621-02	0.02mm
4621-03	0.03mm
4621-04	0.04mm
4621-05	0.05mm
4621-06	0.06mm
4621-07	0.07mm
4621-08	0.08mm
4621-09	0.09mm
4621-10	0.10mm
4621-12	0.12mm

Kod	T
4621-15	0.15mm
4621-18	0.18mm
4621-20	0.20mm
4621-25	0.25mm
4621-30	0.30mm
4621-35	0.35mm
4621-40	0.40mm
4621-45	0.45mm
4621-50	0.50mm
4621-55	0.55mm

Kod	T
4621-60	0.60mm
4621-65	0.65mm
4621-70	0.70mm
4621-75	0.75mm
4621-80	0.80mm
4621-85	0.85mm
4621-90	0.90mm
4621-95	0.95mm
4621-100	1.00mm

Çelik Cetvel





- Hassasiyet: 0,5mm; 1mm; 1/64"; 1/32"; 1/16"
- Bükülmez cetvel
- Paslanmaz çelikten yapılmıştır
- Parlamayan yüzey

Kod	Ölçüm aralığı	Doğruluk	L	W	H	Açıklama
7110-150	150mm/6"	±0,15mm	170	18	1,0	ön ve arka hassasiyeti
7110-200	200mm/8"	±0,15mm	220	18	1,0	ön ve arka hassasiyeti
7110-300	300mm/12"	±0,15mm	330	25	1,0	ön ve arka hassasiyeti
7110-3001	300mm/12"	±0,15mm	325	30	1,0	ön ve arka hassasiyeti
7110-500	500mm/20"	±0,15mm	530	30	1,2	ön ve arka hassasiyeti
7110-600	600mm/24"	±0,20mm	630	30	1,2	ön ve arka hassasiyeti
7110-1000	1000mm/40"	±0,20mm	1040	32	1,5	ön ve arka hassasiyeti
7110-1200	1200mm/48"	±0,22mm	1240	35	1,8	ön hassasiyet
7110-1500	1500mm/60"	±0,25mm	1550	38	1,8	ön hassasiyet
7110-2000	2000mm/80"	±0,30mm	2065	40	2,0	ön hassasiyet

2 Parça Ölçüm Seti

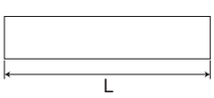


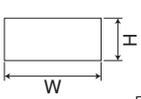
- İçindekiler:
  1) Mekanik Kumpas; ölçüm aralığı 0-150mm/0-6"
  2) Dış Çap Mikrometre; ölçüm aralığı 0-25mm; hassasiyet 0,01mm (kod **3202-25A**)

Kod	Açıklama
5021	Mekanik Kumpas; hassasiyet 0,05mm/1/128" (Kod **1205-150S**)
5021-2	Mekanik Kumpas; hassasiyet 0,02mm/0,001" (Kod **1205-1502S**)

Granit Pleyt







Kod	Ebat (LxWxH)
6900-132	300x200x60 mm
6900-142	400x250x60 mm
6900-144	400x400x60 mm
6900-153	500x315x70 mm
6900-164	630x400x100 mm
6900-166	630x630x100 mm
6900-185	800x500x100 mm
6900-1106	1000x630x140 mm
6900-1101	1000x1000x150 mm
6900-1128	1200x800x160 mm
6900-1161	1600x1000x180 mm
6900-1201	2000x1000x220 mm
6900-1202	2000x1500x250 mm

Şormetre



- ISO868, ISO7619, ASTM D 2240 standardına uygundur
- Tepe nokta göstergesi ile
- Opsiyonel aksesuar: test standı **ISH-STAC** ve **ISH-STD**

Kod	ISH-SAM	ISH-SDM
Skala	Şor A	Şor D
Uygulama	doğal lastik, yumuşak elastomer vb.	sert elastom plastik, sert lastik vb.
Ölçüm aralığı	10~90HA	20~90HD
Hassasiyet	1HA	1HD
İşaretleyici uç	2,5mm	
Boyut	115×60×25mm	
Ağırlık	160g	

2 Parça Ölçüm Seti



- İçindekiler:
  1) Dijital kumpas; aralık 0-150mm/0-6", çözünürlük 0,01mm/0,0005" (kod **1108-150**)
  2) Dijital dış çap mikrometre; aralık 0-25mm/0-1", çözünürlük 0,001mm/0,00005" (kod **3109-25A**)

Kod
5022

Granit Pleyt Tablası



Kod	Ebat (LxWxH)
6902-64A	630x400x100 mm
6902-66A	630x630x100 mm
6902-85A	800x500x100 mm
6902-106A	1000x630x140 mm
6902-101A	1000x1000x150 mm
6902-128A	1200x800x160 mm
6902-161A	1600x1000x180 mm

Açı Mastar Seti (10 Parça)



KOD	ÖLÇÜ
C326-130	1°/2°/3°/4°/5°/10°/15°/20°/25°/30°

Johnson Mastar Seti (103 Parça)



KOD	ÖLÇÜ
C327-103-2	1,005-100 mm Gr2

Pim Mastar Seti



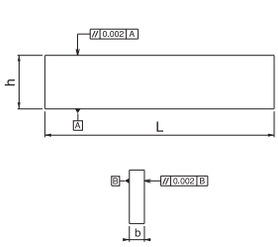
KOD	ÖLÇÜ (mm)	SET ADEDİ	SERTLİK	BOY (mm)
C995-091	1-10	91 PARÇA	60-62 HRC	50
C995-273	0,99-10,01	273 PARÇA	60-62 HRC	50

Paralel Set



KOD	ÖLÇÜ
C328-7	150 mm 7 ÇİFT 6X10-6X12-8X14-12X18-12X24-16X36-16X38
C328-14X5	150X5 mm 14 ÇİFT 14-16-18-20-22-24-26-28-30-32-35-40-45-50
C328-14X10	150X10 mm 14 ÇİFT 14-16-18-20-22-24-26-28-30-32-35-40-45-50

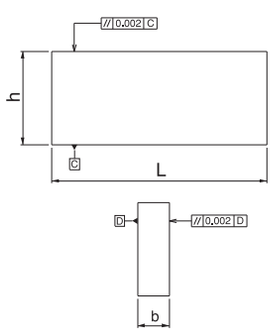
Paralel Set





Referans Nr.	h x b x L	tolerans h	tolerans b	(kg)	Adet Piece
2230-028	14x10x150	±0.01	±0.01	10.8	2
	16x10x150				2
	18x10x150				2
	20x10x150				2
	22x10x150				2
	24x10x150				2
	26x10x150				2
	28x10x150				2
	30x10x150				2
	32x10x150				2
	35x10x150				2
	40x10x150				2
	45x10x150				2
	50x10x150				2

Paralel Set



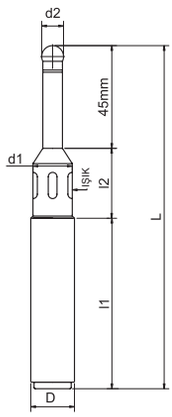


Referans Nr.	h x b x L	tolerans h	tolerans b	(kg)	Adet
2250-016	20x6x100	±0.01	±0.01	10.6	2
	23x8x100				2
	28x10x100				2
	36x12x150				2
	42x14x150				2
	48x16x150				2
	58x18x150				2
	65x22x150				2

Işıklı - Işıklı Sesli Prop

Mekanik Prop







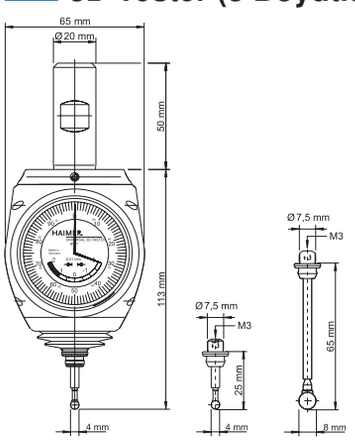
D	d1	d2	L	l1	l2	Pil Tipi	Ağırlık (kg)
20	16	10	157	77	35	UM-5#(SP) x2P/R1./1.5V	0.4
32	16	10	157	71	41		0.7

Saatli Z-Sıfırlama Aparatı



Ölçü (mm)	Hassasiyet (mm)
50	0,01
100	0,01

3D Tester (3 Boyutlu Ölçüm İçin)





Hassasiyet	Komple Boy (Sapsız)	Açıklama
0,01 mm	113 mm	3d Tester Mekanik
0,01 mm	113 mm	Sk40 Saplı 3d Tester Mekanik
0,01 mm	113 mm	Bt40 Saplı 3d Tester Mekanik
-	-	Ø4 Kısa Uç
-	-	Ø8 Uzun Uç

Vida Mastarı (Dişi)



Kod	Ölçü	Hatve
4120-1N	M1.0	0.25
4120-1D1N	M1.1	0.25
4120-1D2N	M1.2	0.25
4120-1D4N	M1.4	0.30
4120-1D6N	M1.6	0.35
4120-1D8N	M1.8	0.35
4120-2N	M2.0	0.40
4120-2D2N	M2.2	0.45
4120-2D5N	M2.5	0.45
4120-3N	M3.0	0.50
4120-3D5N	M3.5	0.60
4120-4N	M4.0	0.70

4120-5N	M5.0	0.80
4120-6N	M6.0	1.00
4120-8N	M8.0	1.25
4120-10N	M10.0	1.50
4120-12N	M12.0	1.75
4120-14N	M14.0	2.00
4120-16N	M16.0	2.00
4120-18N	M18.0	2.50
4120-20N	M20.0	2.50
4120-22N	M22.0	2.50
4120-24N	M24.0	3.00
4120-27N	M27.0	3.00
4120-30N	M30.0	3.50

Vida Mastarı (Erkek)



Kod	Ölçü	Hatve
4130-1	M1.0	0.25
4130-1D1	M1.1	0.25
4130-1D2	M1.2	0.25
4130-1D4	M1.4	0.30
4130-1D6	M1.6	0.35
4130-1D8	M1.8	0.35
4130-2	M2.0	0.40
4130-2D2	M2.2	0.45
4130-2D5	M2.5	0.45
4130-3	M3.0	0.50
4130-3D5	M3.5	0.60
4130-4	M4.0	0.70

4130-5	M5.0	0.80
4130-6	M6.0	1.00
4130-8	M8.0	1.25
4130-10	M10.0	1.50
4130-12	M12.0	1.75
4130-14	M14.0	2.00
4130-16	M16.0	2.00
4130-18	M18.0	2.50
4130-20	M20.0	2.50
4130-22	M22.0	2.50
4130-24	M24.0	3.00
4130-27	M27.0	3.00
4130-30	M30.0	3.50

Kaplama Kalınlığı Ölçme



manyetik indüksiyon probu Fe (dahil)


eddy akım probu NFe (**opsiyonel**) sıfırlama mastar bloğu ile


delik ve oluklar için (**opsiyonel**) manyetik indüksiyon probu (Fe90)


kalibrasyon folyosu (dahil)


büyük ölçüm aralıklı (**opsiyonel**) manyetik indüksiyon probu (Fe10)


Fe için sıfırlama mastar bloğu (dahil)

- Manyetik indüksiyon probu (Fe), manyetik yüzey üzerindeki manyetik olmayan kaplama kalınlığı ölçmek içindir
  Yüzey: demir, çelik, manyetik paslanmaz çelik (manyetik olmayan paslanmaz çelik dahil değil)
  Kaplama: çinko, bakır, krom, teneke, plastik, toz, boya (nikel dahil değil)
- Eddy akım probu (Nfe), manyetik olmayan yüzeydeki iletken olmayan kaplamayı ölçme içindir
  Yüzey: bakır, alüminyum, çinko, manyetik olmayan paslanmaz çelik
  Kaplama: plastik, toz, boya,anodik
- Üst ve alt limitler muhakeme ile
- Otomaitk kapanma

Manuel Rockwell Sertlik Ölçme Cihazı




Ø60mm düz yatak (dahil)


Ø150mm düz yatak (dahil)


V-tipi uç (dahil); Ø4~60mm çapa sahip silindirler içindir


küçük V-tipi uç (**opsiyonel**); Ø2~4mm çapa sahip silindirler içindir

STANDART DAĞILIM

Ana ünite	1 parça
Ø60mm düz uç	1 parça
Ø150mm düz uç	1 parça
V-tipi uç	1 parça
Elmas işaretleyici uç	1 parça
Ø1,5875mm karbürlü işaretleyici uç	1 parça
Sertlik test bloğu HRB88~95	1 parça
Sertlik test bloğu HRC60~65	1 parça
Sertlik test bloğu HRC20~30	1 parça
Kılıf	1 parça

ÖZELLİK

Sertlik skalası	HRA; HRB; HRC; HRD; HRF; HRG
Ilk test kuvveti	98N
Test kuvveti	588N; 980N; 1471N
Gösterge	analog
Aşama yükseltme	manuel
Yük kontrol	manuel
Min. okuma	0,5HR
Maks. iş parçası yüksekliği	170mm
Maks. iş parçası derinliği	165mm (işaretleyici uç merkezinden)
Boyut	520×160×700mm
Ağırlık	60kg

OPSİYONEL AKSESUAR

Sertlik test bloğu HRB88~95	**ISH-BHRB**
Sertlik test bloğu HRC60~65	**ISH-BHRC3**
Sertlik test bloğu HRC20~30	**ISH-BHRC1**
Küçük V-tipi uç	**ISH-SMALL ANVIL**

Portatif Ölçüm Mikroskobu



ISM-PM100

ÖZELLİK

Kod	**ISM-PM20**	**ISM-PM40**	**ISM-PM50**	**ISM-PM100**
Toplam büyütme	20X	40X	50X	100X
Mercek	10X hassasiyet	10X hassasiyet	10X hassasiyet	10X hassasiyet
Objektif (renksiz)	2X (rakamsal pencere: 0,05)	4X (rakamsal pencere: 0,1)	5X (rakamsal pencere: 0,12)	10X (rakamsal pencere: 0,25)
Çalışma mesafesi	17,2mm	18mm	17,6mm	7mm
Hassasiyet	0,05mm	0,025mm	0,02mm	0,01mm
Görüş alanı	Ø9mm	Ø4,5mm	Ø3,6mm	Ø1,8mm
Odaklama ayarı	30mm			
Aydınlatma	LED ışık			
Taban çapı	Ø63mm			
Yükseklik	210mm			
Ağırlık	650g			

STANDART TESLİMAT

Ana ünite	1 parça
Kalem ışığı	1 parça
Pil (AAA)	2 parça

Yüzey Pürüzlülük Ölçme



- 21 pürüzlülük parametresi
- Pürüzlülük değeri; profil ve eğriliği görüntüleme
- Maksimum 100 sonuç hafızalı
- Otomatik kapanma

uzatma çubuğu (opsiyonel)
kod ISR-C002-ER

Ultrasonik Kalınlık Ölçer (Ekonomik Model)





DİKKAT: DÖKME PARÇALAR İÇİN UYGUN DEĞİLDİR

STANDART TESLİMAT

Ana ünite	1 parça
Transdüser	1 parça
Temas maddesi	1 şişe
Pil (AAA)	2 parça

- Bir cisimin tek tarafından kalınlık ölçer, boru, depo, vb, için uygundur
- Uygulanabilir materyaller: metal, plastik, cam, naylon, reçine, seramik, lastik, buz

ÖZELLİK

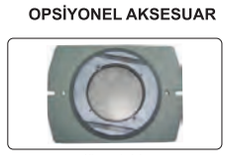
Ölçüm aralığı		0,8~300mm
Çözünürlük		0,01mm (ölçüm aralığı<100mm) 0,1mm (ölçüm aralığı≥100mm)
Doğruluk		±0,04mm (ölçüm aralığı<10mm) ±(0,04+H/1000)mm (ölçüm aralığı 10~100mm) ±H/333mm (ölçüm aralığı≥100mm) H ölçülecek kalınlıktır
Transdüser	**frekans**	5MHz
	çap (Ød)	10,8mm
Ölçüm için borunun minimum boyutu		20×1,2mm (çap x duvar kalınlığı)
Uygulanabilir sıcaklık		<60°C
Hız		1000-9999m/s
Güç kaynağı		2×AAA pil
Boyut		114×64×28mm
Ağırlık		200g

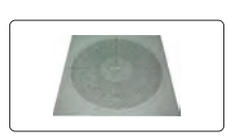
Profil Projektör



OPSİYONEL AKSESUAR


lens


döner tabla
(cam tabla çap 100mm)


üstyazım çizelgesi (1° derecelendirme ile açı ölçer 1mm artış ile yarıçap)


döner tabla merkez desteği


kelepçe ile V-blok


50mm okuma skalası
(büyütme hassasiyeti kontrolü)


mavi filtre


demo örneği


yazıcı (sadece **ISP-A1000E** için)


kelepçe ile tutucu


300mm kalibrasyon skalası (50mm kalibrasyon skalası ile büyütme doğruluğu kontrol edilir ya da ölçüm hassasiyeti kalibre edilir)

VEFA
KALIP MARKET
ve KALIP SETLERİ

ÜRÜN GRUBU

07

Kesici ve Tutucu Takımlar

Bu bölümde

01 Freze, matkap ve kılavuz

02 Kesici uçlar

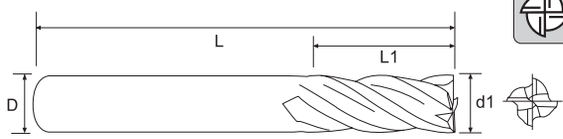
03 Takım tutucular

Teknik not

Ölçü ve stok bilgileri sipariş öncesinde teklif üzerinde teyit edilir.

Düz Karbür Freze 4 Ağız





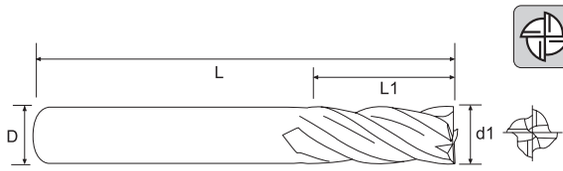
HRC 45 HRC 55

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
1.0 mm	4 mm	3 mm	50 mm
1.5 mm	4 mm	4 mm	50 mm
2.0 mm	4 mm	6 mm	50 mm
2.5 mm	4 mm	8 mm	50 mm
3.0 mm	4 mm	8 mm	50 mm
3.5 mm	4 mm	11 mm	50 mm
4.0 mm	4 mm	11 mm	50 mm
1.0 mm	6 mm	3 mm	50 mm
1.5 mm	6 mm	4 mm	50 mm
2.0 mm	6 mm	6 mm	50 mm
2.5 mm	6 mm	8 mm	50 mm
3.0 mm	6 mm	8 mm	50 mm
3.5 mm	6 mm	11 mm	50 mm
4.0 mm	6 mm	11 mm	50 mm
4.5 mm	6 mm	13 mm	50 mm
5.0 mm	6 mm	13 mm	50 mm
5.5 mm	6 mm	15 mm	50 mm
6.0 mm	6 mm	15 mm	50 mm
6.5 mm	8 mm	20 mm	60 mm
7.0 mm	8 mm	20 mm	60 mm
7.5 mm	8 mm	20 mm	60 mm
8.0 mm	8 mm	20 mm	60 mm
8.5 mm	10 mm	25 mm	75 mm
9.0 mm	10 mm	25 mm	75 mm
9.5 mm	10 mm	25 mm	75 mm
10.0 mm	10 mm	25 mm	75 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
10.5 mm	12 mm	30	75 mm
11.0 mm	12 mm	30	75 mm
11.5 mm	12 mm	30	75 mm
12.0 mm	12 mm	30	75 mm
12.5 mm	12 mm	30	75 mm
13.0 mm	14 mm	45	100 mm
13.5 mm	14 mm	45	100 mm
14.0 mm	14 mm	45	100 mm
14.5 mm	14 mm	45	100 mm
15.0 mm	16 mm	45	100 mm
15.5 mm	16 mm	45	100 mm
16.0 mm	16 mm	45	100 mm
16.5 mm	16 mm	45	100 mm
17.0 mm	18 mm	45	100 mm
17.5 mm	18 mm	45	100 mm
18.0 mm	18 mm	45	100 mm
18.5 mm	18 mm	45	100 mm
19.0 mm	20 mm	45	100 mm
20.0 mm	20 mm	45	100 mm
22.0 mm	20 mm	45	100 mm
24.0 mm	25 mm	60	100 mm
25.0 mm	25 mm	60	100 mm
28.0 mm	25 mm	45	120 mm
30.0 mm	30 mm	45	120 mm
32.0 mm	30 mm	45	120 mm

Uzun Düz Karbür Freze 4 Ağız





HRC 45 HRC 55

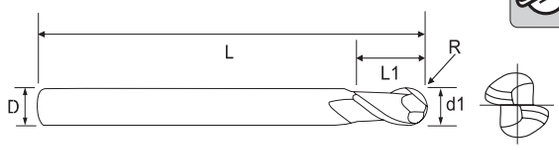
d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
1.0 mm	3 mm	3 mm	75 mm
1.5 mm	3 mm	4 mm	75 mm
2.0 mm	3 mm	6 mm	75 mm
2.5 mm	3 mm	8 mm	75 mm
3.0 mm	3 mm	8 mm	75 mm
4.0 mm	4 mm	11 mm	75 mm
5.0 mm	5 mm	13 mm	75 mm
6.0 mm	6 mm	15 mm	75 mm
1.0 mm	3 mm	3 mm	100 mm
1.5 mm	3 mm	4 mm	100 mm
2.0 mm	3 mm	6 mm	100 mm
3.0 mm	3 mm	8 mm	100 mm
4.0 mm	4 mm	11 mm	100 mm
5.0 mm	5 mm	13 mm	100 mm
6.0 mm	6 mm	15 mm	100 mm
7.0 mm	8 mm	20 mm	100 mm
8.0 mm	8 mm	20 mm	100 mm
9.0 mm	10 mm	25 mm	100 mm
10.0 mm	10 mm	25 mm	100 mm
11.0 mm	12 mm	32 mm	100 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
12.0 mm	12 mm	32 mm	100 mm
5.0 mm	5 mm	50 mm	150 mm
6.0 mm	6 mm	50 mm	150 mm
8.0 mm	8 mm	50 mm	150 mm
10.0 mm	10 mm	70 mm	150 mm
12.0 mm	12 mm	70 mm	150 mm
14.0 mm	14 mm	70 mm	150 mm
16.0 mm	16 mm	70 mm	150 mm
18.0 mm	18 mm	70 mm	150 mm
20.0 mm	20 mm	70 mm	150 mm
25.0 mm	25 mm	80 mm	150 mm
6.0 mm	6 mm	40 mm	200 mm
8.0 mm	8 mm	40 mm	200 mm
10.0 mm	10 mm	50 mm	200 mm
12.0 mm	12 mm	50 mm	200 mm
14.0 mm	14 mm	70 mm	200 mm
16.0 mm	16 mm	70 mm	200 mm
18.0 mm	18 mm	70 mm	200 mm
20.0 mm	20 mm	70 mm	200 mm

Küre Karbür Freze 2 Ağız

HRC 45 HRC 55





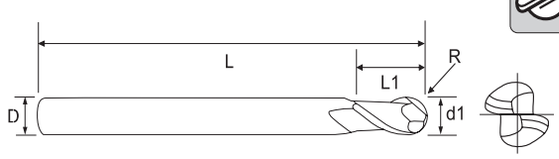
d1 (Çap)	R (Radüs)	D (Şaft)	L1	L (Tam Boy)
1.00 mm	0.50 mm	4 mm	2 mm	50 mm
1.50 mm	0.75 mm	4 mm	3 mm	50 mm
2.00 mm	1.00 mm	4 mm	4 mm	50 mm
2.50 mm	1.25 mm	4 mm	5 mm	50 mm
3.00 mm	1.50 mm	4 mm	6 mm	50 mm
3.50 mm	1.75 mm	4 mm	8 mm	50 mm
4.00 mm	2.00 mm	4 mm	8 mm	50 mm
1.00 mm	0.50 mm	6 mm	2 mm	50 mm
1.50 mm	0.75 mm	6 mm	3 mm	50 mm
2.00 mm	1.00 mm	6 mm	4 mm	50 mm
2.50 mm	1.25 mm	6 mm	5 mm	50 mm
3.00 mm	1.50 mm	6 mm	6 mm	50 mm
3.50 mm	1.75 mm	6 mm	8 mm	50 mm
4.00 mm	2.00 mm	6 mm	8 mm	50 mm
4.50 mm	2.25 mm	6 mm	10 mm	50 mm
5.00 mm	2.50 mm	6 mm	10 mm	50 mm
5.50 mm	2.75 mm	6 mm	12 mm	50 mm
6.00 mm	3.00 mm	6 mm	12 mm	50 mm
6.50 mm	3.25 mm	8 mm	16 mm	60 mm

d1 (Çap)	R (Radüs)	D (Şaft)	L1	L (Tam Boy)
7.00 mm	3.50 mm	8 mm	16 mm	60 mm
7.50 mm	3.75 mm	8 mm	16 mm	60 mm
8.00 mm	4.00 mm	8 mm	16 mm	60 mm
8.50 mm	4.25 mm	10 mm	20 mm	75 mm
9.00 mm	4.50 mm	10 mm	20 mm	75 mm
9.50 mm	4.75 mm	10 mm	20 mm	75 mm
10.00 mm	5.00 mm	10 mm	20 mm	75 mm
10.50 mm	5.25 mm	12 mm	25 mm	75 mm
11.00 mm	5.50 mm	12 mm	25 mm	75 mm
12.00 mm	6.00 mm	12 mm	25 mm	75 mm
13.50 mm	6.50 mm	14 mm	30 mm	75 mm
14.00 mm	7.00 mm	14 mm	30 mm	100 mm
15.00 mm	7.50 mm	16 mm	30 mm	100 mm
16.00 mm	8.00 mm	16 mm	30 mm	100 mm
17.00 mm	8.50 mm	18 mm	30 mm	100 mm
18.00 mm	9.00 mm	18 mm	30 mm	100 mm
19.00 mm	9.50 mm	20 mm	30 mm	100 mm
20.00 mm	10.00 mm	20 mm	30 mm	100 mm

Uzun Küre Karbür Freze 2 Ağız

HRC 45 HRC 55





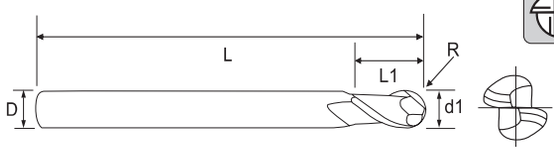
d1 (Çap)	R (Radüs)	D (Şaft)	L1	L (Tam Boy)
1.00 mm	0.50 mm	3 mm	2 mm	75 mm
1.50 mm	0.75 mm	3 mm	3 mm	75 mm
2.00 mm	1.00 mm	3 mm	4 mm	75 mm
2.50 mm	1.25 mm	3 mm	5 mm	75 mm
3.00 mm	1.50 mm	3 mm	6 mm	75 mm
3.50 mm	1.75 mm	4 mm	8 mm	75 mm
4.00 mm	2.00 mm	4 mm	8 mm	75 mm
4.50 mm	2.25 mm	5 mm	10 mm	75 mm
5.00 mm	2.50 mm	5 mm	10 mm	75 mm
5.50 mm	2.75 mm	6 mm	12 mm	75 mm
6.00 mm	3.00 mm	6 mm	12 mm	75 mm
1.00 mm	0.50 mm	3 mm	2 mm	100 mm
1.50 mm	0.75 mm	3 mm	3 mm	100 mm
2.00 mm	1.00 mm	3 mm	4 mm	100 mm
2.50 mm	1.25 mm	3 mm	5 mm	100 mm
3.00 mm	1.50 mm	4 mm	6 mm	100 mm
3.50 mm	1.75 mm	4 mm	8 mm	100 mm
4.00 mm	2.00 mm	5 mm	8 mm	100 mm
4.50 mm	2.25 mm	5 mm	10 mm	100 mm
5.00 mm	2.50 mm	6 mm	10 mm	100 mm
5.50 mm	2.75 mm	6 mm	12 mm	100 mm
6.00 mm	3.00 mm	8 mm	12 mm	100 mm
6.50 mm	3.25 mm	8 mm	16 mm	100 mm

d1 (Çap)	R (Radüs)	D (Şaft)	L1	L (Tam Boy)
7.00 mm	3.50 mm	8 mm	16 mm	100 mm
7.50 mm	3.75 mm	8 mm	16 mm	100 mm
8.00 mm	4.00 mm	8 mm	16 mm	100 mm
8.50 mm	4.25 mm	10 mm	20 mm	100 mm
9.00 mm	4.50 mm	10 mm	20 mm	100 mm
9.50 mm	4.75 mm	10 mm	20 mm	100 mm
10.00 mm	5.00 mm	10 mm	20 mm	100 mm
10.50 mm	5.25 mm	12 mm	25 mm	100 mm
11.00 mm	5.50 mm	12 mm	25 mm	100 mm
12.00 mm	6.00 mm	12 mm	25 mm	100 mm
5.00 mm	2.50 mm	5 mm	30 mm	150 mm
6.00 mm	3.00 mm	6 mm	30 mm	150 mm
8.50 mm	4.00 mm	8 mm	30 mm	150 mm
10.00 mm	5.00 mm	10 mm	40 mm	150 mm
12.50 mm	6.00 mm	12 mm	40 mm	150 mm
14.00 mm	7.00 mm	14 mm	40 mm	150 mm
16.00 mm	8.00 mm	16 mm	40 mm	150 mm
18.00 mm	9.00 mm	18 mm	40 mm	150 mm
20.00 mm	10.00 mm	20 mm	40 mm	150 mm
6.00 mm	3.00 mm	6 mm	40 mm	200 mm
8.00 mm	4.00 mm	8 mm	50 mm	200 mm
10.00 mm	5.00 mm	10 mm	70 mm	200 mm
12.00 mm	6.00 mm	12 mm	70 mm	200 mm

Küre Karbür Freze 4 Ağız

HRC 45 HRC 55





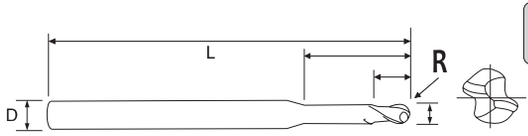
d1 (Çap)	R (Radüs)	D (Şaft)	L1	L (Tam Boy)
1.00 mm	0.50 mm	4 mm	3 mm	50 mm
1.50 mm	0.75 mm	4 mm	3 mm	50 mm
2.00 mm	1.00 mm	4 mm	4 mm	50 mm
2.50 mm	1.25 mm	4 mm	4 mm	50 mm
3.00 mm	1.50 mm	4 mm	6 mm	50 mm
4.00 mm	2.00 mm	4 mm	8 mm	50 mm

d1 (Çap)	R (Radüs)	D (Şaft)	L1	L (Tam Boy)
5.00 mm	2.50 mm	5 mm	8 mm	50 mm
6.00 mm	3.00 mm	6 mm	8 mm	50 mm
8.00 mm	4.00 mm	8 mm	12 mm	60 mm
10.00 mm	5.00 mm	10 mm	20 mm	75 mm
12.00 mm	6.00 mm	12 mm	25 mm	75 mm

Uzun Küre Karbür Freze 4 Ağız

HRC 45 HRC 55





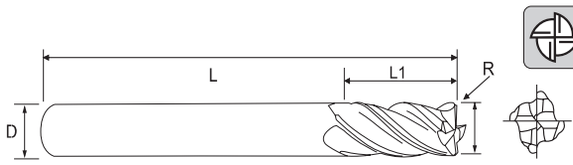
d1 (Çap)	R (Radüs)	D (Şaft)	L1	L (Tam Boy)
1.00 mm	0.50 mm	4 mm	5 mm	100 mm
1.00 mm	0.50 mm	6 mm	5 mm	100 mm
1.50 mm	0.75 mm	4 mm	5 mm	100 mm
1.50 mm	0.75 mm	6 mm	5 mm	100 mm
2.00 mm	1.00 mm	4 mm	5 mm	100 mm
2.00 mm	1.00 mm	6 mm	5 mm	100 mm
2.50 mm	1.25 mm	4 mm	5 mm	100 mm
2.50 mm	1.25 mm	6 mm	5 mm	100 mm
3.00 mm	1.50 mm	3 mm	5 mm	100 mm

d1 (Çap)	R (Radüs)	D (Şaft)	L1	L (Tam Boy)
3.00 mm	1.50 mm	6 mm	5 mm	100 mm
4.00 mm	2.00 mm	4 mm	10 mm	100 mm
4.00 mm	2.00 mm	6 mm	10 mm	100 mm
5.00 mm	2.50 mm	5 mm	10 mm	100 mm
6.00 mm	3.00 mm	6 mm	10 mm	100 mm
8.00 mm	4.00 mm	8 mm	12 mm	100 mm
10.00 mm	5.00 mm	10 mm	20 mm	100 mm
12.00 mm	6.00 mm	12 mm	25 mm	100 mm

Köşe Radüs Karbür Freze 4 Ağız

HRC 45 HRC 55



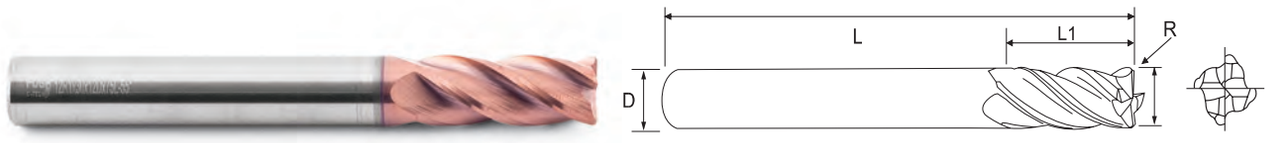


d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
1.00 mm	0.20 mm	3 mm	5 mm	50 mm
1.50 mm	0.20 mm	3 mm	5 mm	50 mm
2.00 mm	0.20 mm	3 mm	5 mm	50 mm
2.00 mm	0.30 mm	3 mm	5 mm	50 mm
2.00 mm	0.50 mm	3 mm	5 mm	50 mm
3.00 mm	0.20 mm	3 mm	5 mm	50 mm
3.00 mm	0.30 mm	3 mm	5 mm	50 mm
3.00 mm	0.50 mm	3 mm	5 mm	50 mm
3.00 mm	1.00 mm	3 mm	5 mm	50 mm
4.00 mm	0.20 mm	4 mm	8 mm	50 mm
4.00 mm	0.30 mm	4 mm	8 mm	50 mm
4.00 mm	0.50 mm	4 mm	8 mm	50 mm
4.00 mm	1.00 mm	4 mm	8 mm	50 mm
5.00 mm	0.20 mm	5 mm	10 mm	50 mm
5.00 mm	0.30 mm	5 mm	10 mm	50 mm
5.00 mm	0.50 mm	5 mm	10 mm	50 mm
5.00 mm	1.00 mm	5 mm	10 mm	50 mm
6.00 mm	0.20 mm	6 mm	12 mm	50 mm
6.00 mm	0.30 mm	6 mm	12 mm	50 mm
6.00 mm	0.50 mm	6 mm	12 mm	50 mm
6.00 mm	1.00 mm	6 mm	12 mm	50 mm
6.00 mm	2.00 mm	6 mm	12 mm	50 mm
8.00 mm	0.20 mm	8 mm	16 mm	50 mm

d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
8.00 mm	0.50 mm	8 mm	16 mm	60 mm
8.00 mm	1.00 mm	8 mm	16 mm	60 mm
8.00 mm	1.50 mm	8 mm	16 mm	60 mm
8.00 mm	2.00 mm	8 mm	16 mm	60 mm
8.00 mm	3.00 mm	8 mm	16 mm	60 mm
10.00 mm	0.30 mm	10 mm	20 mm	60 mm
10.00 mm	0.50 mm	10 mm	20 mm	75 mm
10.00 mm	1.00 mm	10 mm	20 mm	75 mm
10.00 mm	1.50 mm	10 mm	20 mm	75 mm
10.00 mm	2.00 mm	10 mm	20 mm	75 mm
10.00 mm	3.00 mm	10 mm	20 mm	75 mm
12.00 mm	0.20 mm	12 mm	24 mm	75 mm
12.00 mm	0.50 mm	12 mm	24 mm	75 mm
12.00 mm	1.00 mm	12 mm	24 mm	75 mm
12.00 mm	1.50 mm	12 mm	24 mm	75 mm
12.00 mm	2.00 mm	12 mm	24 mm	75 mm
12.00 mm	3.00 mm	12 mm	24 mm	75 mm
14.00 mm	1.00 mm	14 mm	32 mm	75 mm
14.00 mm	2.00 mm	14 mm	32 mm	100 mm
14.00 mm	3.00 mm	14 mm	32 mm	100 mm
16.00 mm	1.00 mm	16 mm	32 mm	100 mm
16.00 mm	2.00 mm	16 mm	32 mm	100 mm
16.00 mm	3.00 mm	16 mm	32 mm	100 mm

Uzun Köşe Radüs Karbür Freze 4 Ağız

HRC 45 HRC 55



d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
2.00 mm	0.20 mm	4 mm	5 mm	100 mm
2.00 mm	0.30 mm	4 mm	5 mm	100 mm
2.00 mm	0.50 mm	4 mm	5 mm	100 mm
3.00 mm	0.20 mm	3 mm	5 mm	100 mm
3.00 mm	0.30 mm	3 mm	5 mm	100 mm
3.00 mm	0.50 mm	3 mm	5 mm	100 mm
3.00 mm	1.00 mm	4 mm	5 mm	100 mm
4.00 mm	0.20 mm	4 mm	8 mm	100 mm
4.00 mm	0.30 mm	4 mm	8 mm	100 mm
4.00 mm	0.50 mm	4 mm	8 mm	100 mm
4.00 mm	1.00 mm	4 mm	8 mm	100 mm
5.00 mm	0.20 mm	5 mm	10 mm	100 mm
5.00 mm	0.30 mm	5 mm	10 mm	100 mm
5.00 mm	0.50 mm	5 mm	10 mm	100 mm
5.00 mm	1.00 mm	5 mm	10 mm	100 mm
6.00 mm	0.20 mm	6 mm	12 mm	100 mm
6.00 mm	0.30 mm	6 mm	12 mm	100 mm
6.00 mm	0.50 mm	6 mm	12 mm	100 mm
6.00 mm	1.00 mm	6 mm	12 mm	100 mm
6.00 mm	2.00 mm	6 mm	12 mm	100 mm
8.00 mm	0.20 mm	8 mm	16 mm	100 mm
8.00 mm	0.50 mm	8 mm	16 mm	100 mm

d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
8.00 mm	1.00 mm	8 mm	16 mm	100 mm
8.00 mm	1.50 mm	8 mm	16 mm	100 mm
8.00 mm	2.00 mm	8 mm	16 mm	100 mm
8.00 mm	3.00 mm	8 mm	16 mm	100 mm
10.00 mm	0.20 mm	10 mm	20 mm	100 mm
10.00 mm	0.50 mm	10 mm	20 mm	100 mm
10.00 mm	1.00 mm	10 mm	20 mm	100 mm
10.00 mm	1.50 mm	10 mm	20 mm	100 mm
10.00 mm	2.00 mm	10 mm	20 mm	100 mm
10.00 mm	3.00 mm	10 mm	20 mm	100 mm
12.00 mm	0.20 mm	12 mm	24 mm	100 mm
12.00 mm	0.50 mm	12 mm	24 mm	100 mm
12.00 mm	1.00 mm	12 mm	24 mm	100 mm
12.00 mm	1.50 mm	12 mm	24 mm	100 mm
12.00 mm	2.00 mm	12 mm	24 mm	100 mm
6.00 mm	0.50 mm	6 mm	25 mm	150 mm
8.00 mm	0.50 mm	8 mm	25 mm	150 mm
8.00 mm	1.00 mm	8 mm	25 mm	150 mm
10.00 mm	0.50 mm	10 mm	25 mm	150 mm
10.00 mm	1.00 mm	10 mm	25 mm	150 mm
12.00 mm	0.50 mm	12 mm	25 mm	150 mm
12.00 mm	1.00 mm	12 mm	25 mm	150 mm

Düz Dalma Boy Karbür Freze 2 ve 4 Ağız

HRC 55



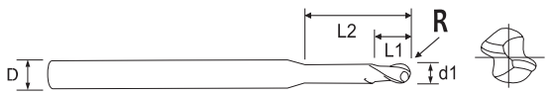
d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L2 (Dalma Boyu)
1.0 mm	4 mm	1.2 mm	6 mm
1.0 mm	4 mm	1.2 mm	8 mm
1.0 mm	4 mm	1.2 mm	10 mm
1.0 mm	4 mm	1.2 mm	12 mm
1.0 mm	4 mm	1.2 mm	16 mm
1.0 mm	4 mm	1.2 mm	20 mm
1.0 mm	4 mm	1.2 mm	25 mm
1.5 mm	4 mm	1.7 mm	6 mm
1.5 mm	4 mm	1.7 mm	8 mm
1.5 mm	4 mm	1.7 mm	10 mm
1.5 mm	4 mm	1.7 mm	12 mm
1.5 mm	4 mm	1.7 mm	16 mm
1.5 mm	4 mm	1.7 mm	20 mm
1.5 mm	4 mm	1.7 mm	25 mm
2.0 mm	4 mm	2.2 mm	6 mm
2.0 mm	4 mm	2.2 mm	8 mm
2.0 mm	4 mm	2.2 mm	10 mm
2.0 mm	4 mm	2.2 mm	12 mm
2.0 mm	4 mm	2.2 mm	16 mm
2.0 mm	4 mm	2.2 mm	20 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L2 (Dalma Boyu)
2.0 mm	4 mm	2.2 mm	25 mm
2.0 mm	4 mm	2.2 mm	30 mm
2.5 mm	4 mm	2.7 mm	10 mm
2.5 mm	4 mm	2.7 mm	12 mm
2.5 mm	4 mm	2.7 mm	16 mm
2.5 mm	4 mm	2.7 mm	20 mm
2.5 mm	4 mm	2.7 mm	25 mm
3.0 mm	4 mm	3.2 mm	10 mm
3.0 mm	4 mm	3.2 mm	12 mm
3.0 mm	4 mm	3.2 mm	16 mm
3.0 mm	6 mm	3.2 mm	20 mm
3.0 mm	6 mm	3.2 mm	25 mm
3.0 mm	6 mm	3.2 mm	30 mm
4.0 mm	6 mm	4.2 mm	12 mm
4.0 mm	6 mm	4.2 mm	14 mm
4.0 mm	6 mm	4.2 mm	16 mm
4.0 mm	6 mm	4.2 mm	20 mm
4.0 mm	6 mm	4.2 mm	25 mm
4.0 mm	6 mm	4.2 mm	30 mm

Küre Dalma Boy Karbür Freze 2 Ağız

HRC 55





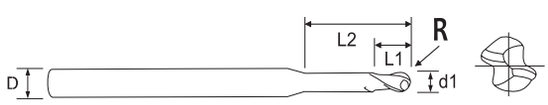
d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L2 (Dalma Boyu)
1.00 mm	0.50 mm	4 mm	1.2 mm	6 mm
1.00 mm	0.50 mm	4 mm	1.2 mm	8 mm
1.00 mm	0.50 mm	4 mm	1.2 mm	10 mm
1.00 mm	0.50 mm	4 mm	1.2 mm	12 mm
1.00 mm	0.50 mm	4 mm	1.2 mm	16 mm
1.00 mm	0.50 mm	4 mm	1.2 mm	20 mm
1.00 mm	0.50 mm	4 mm	1.2 mm	25 mm
1.50 mm	0.75 mm	4 mm	1.7 mm	6 mm
1.50 mm	0.75 mm	4 mm	1.7 mm	8 mm
1.50 mm	0.75 mm	4 mm	1.7 mm	10 mm
1.50 mm	0.75 mm	4 mm	1.7 mm	12 mm
1.50 mm	0.75 mm	4 mm	1.7 mm	16 mm
1.50 mm	0.75 mm	4 mm	1.7 mm	20 mm
1.50 mm	0.75 mm	4 mm	1.7 mm	25 mm
2.00 mm	1.00 mm	4 mm	2.2 mm	6 mm
2.00 mm	1.00 mm	4 mm	2.2 mm	8 mm
2.00 mm	1.00 mm	4 mm	2.2 mm	10 mm
2.00 mm	1.00 mm	4 mm	2.2 mm	12 mm
2.00 mm	1.00 mm	4 mm	2.2 mm	16 mm
2.00 mm	1.00 mm	4 mm	2.2 mm	20 mm

d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L2 (Dalma Boyu)
2.00 mm	1.00 mm	4 mm	2.2 mm	25 mm
2.00 mm	1.00 mm	4 mm	2.2 mm	30 mm
2.50 mm	1.25 mm	4 mm	3.2 mm	12 mm
2.50 mm	1.25 mm	4 mm	3.2 mm	16 mm
2.50 mm	1.25 mm	4 mm	3.2 mm	20 mm
2.50 mm	1.25 mm	4 mm	3.2 mm	30 mm
3.00 mm	1.50 mm	4 mm	3.2 mm	8 mm
3.00 mm	1.50 mm	4 mm	3.2 mm	10 mm
3.00 mm	1.50 mm	4 mm	3.2 mm	12 mm
3.00 mm	1.50 mm	4 mm	3.2 mm	16 mm
3.00 mm	1.50 mm	4 mm	3.2 mm	20 mm
3.00 mm	1.50 mm	4 mm	3.2 mm	25 mm
3.00 mm	1.50 mm	4 mm	3.2 mm	30 mm
4.00 mm	2.00 mm	6 mm	4.2 mm	8 mm
4.00 mm	2.00 mm	6 mm	4.2 mm	10 mm
4.00 mm	2.00 mm	6 mm	4.2 mm	12 mm
4.00 mm	2.00 mm	6 mm	4.2 mm	16 mm
4.00 mm	2.00 mm	6 mm	4.2 mm	20 mm
4.00 mm	2.00 mm	6 mm	4.2 mm	25 mm
4.00 mm	2.00 mm	6 mm	4.2 mm	30 mm

Köşe Radüs Dalma Boy Karbür Freze 4 Ağız

HRC 55





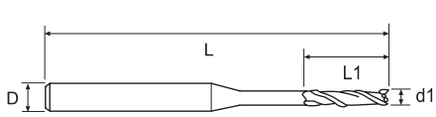
d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L2 (Dalma Boyu)
1.00 mm	0.2 mm	4 mm	1.7 mm	8 mm
1.00 mm	0.2 mm	4 mm	1.7 mm	12 mm
1.50 mm	0.2 mm	4 mm	1.7 mm	12 mm
1.50 mm	0.2 mm	4 mm	1.7 mm	16 mm
2.00 mm	0.2 mm	4 mm	2.2 mm	12 mm
2.00 mm	0.2 mm	4 mm	2.2 mm	16 mm
2.00 mm	0.2 mm	4 mm	2.2 mm	20 mm
2.00 mm	0.5 mm	4 mm	2.2 mm	12 mm
2.00 mm	0.5 mm	4 mm	2.2 mm	10 mm
2.00 mm	0.5 mm	4 mm	2.2 mm	16 mm
2.00 mm	0.5 mm	4 mm	2.2 mm	20 mm

d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L2 (Dalma Boyu)
2.50 mm	0.2 mm	4 mm	2.2 mm	16 mm
2.50 mm	0.2 mm	4 mm	2.2 mm	20 mm
2.50 mm	0.5 mm	4 mm	2.2 mm	16 mm
2.50 mm	0.5 mm	4 mm	2.2 mm	20 mm
3.00 mm	0.2 mm	4 mm	3.2 mm	20 mm
3.00 mm	0.2 mm	4 mm	3.2 mm	25 mm
3.00 mm	0.5 mm	4 mm	3.2 mm	20 mm
3.00 mm	0.5 mm	4 mm	3.2 mm	25 mm
4.00 mm	0.5 mm	4 mm	4.2 mm	20 mm
4.00 mm	0.5 mm	6 mm	4.2 mm	30 mm

Düz Mikron Freze

HRC 45 HRC 55





d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
0.30 mm	4 mm	0.60 mm	50 mm
0.35 mm	4 mm	0.70 mm	50 mm
0.40 mm	4 mm	0.80 mm	50 mm
0.45 mm	4 mm	0.90 mm	50 mm
0.50 mm	4 mm	0.70 mm	50 mm
0.60 mm	4 mm	0.70 mm	50 mm
0.70 mm	4 mm	0.90 mm	50 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
0.80 mm	4 mm	1.00 mm	50 mm
0.90 mm	4 mm	1.20 mm	50 mm
1.00 mm	4 mm	1.20 mm	50 mm
1.20 mm	4 mm	1.20 mm	50 mm
1.40 mm	4 mm	2.40 mm	50 mm
1.60 mm	4 mm	2.60 mm	50 mm

Radüs Mikron Freze





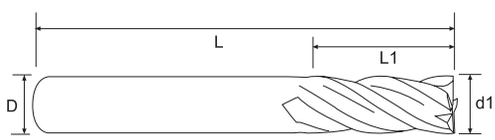
HRC 45 HRC 55

d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
0.30 mm	0.15 mm	4 mm	0.40 mm	50 mm
0.40 mm	0.20 mm	4 mm	0.40 mm	50 mm
0.50 mm	0.25 mm	4 mm	0.40 mm	50 mm
0.60 mm	0.30 mm	4 mm	0.70 mm	50 mm
0.70 mm	0.35 mm	4 mm	0.90 mm	50 mm
0.80 mm	0.40 mm	4 mm	1.00 mm	50 mm

d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
0.90 mm	0.45 mm	4 mm	1.00 mm	50 mm
1.00 mm	0.50 mm	4 mm	1.20 mm	50 mm
1.20 mm	0.60 mm	4 mm	2.40 mm	50 mm
1.40 mm	0.70 mm	4 mm	2.40 mm	50 mm
1.60 mm	0.80 mm	4 mm	2.40 mm	50 mm

Alüminyum Karbür Freze



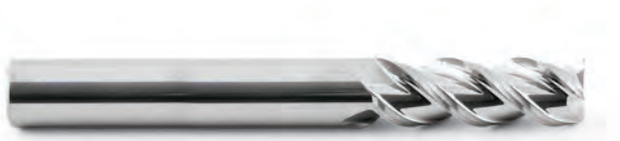


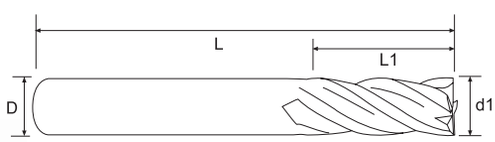
HRC 45 HRC 55

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
2.0 mm	4 mm	5 mm	50 mm
3.0 mm	4 mm	8 mm	50 mm
4.0 mm	4 mm	11 mm	50 mm
5.0 mm	5 mm	13 mm	50 mm
6.0 mm	6 mm	18 mm	50 mm
7.0 mm	8 mm	20 mm	60 mm
8.0 mm	8 mm	20 mm	60 mm
9.0 mm	10 mm	30 mm	75 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
10.0 mm	10 mm	30 mm	75 mm
11.0 mm	12 mm	30 mm	75 mm
12.0 mm	12 mm	30 mm	75 mm
14.0 mm	14 mm	50 mm	100 mm
16.0 mm	16 mm	50 mm	100 mm
18.0 mm	18 mm	50 mm	100 mm
20.0 mm	20 mm	50 mm	100 mm

Uzun Alüminyum Karbür Freze





HRC 45 HRC 55

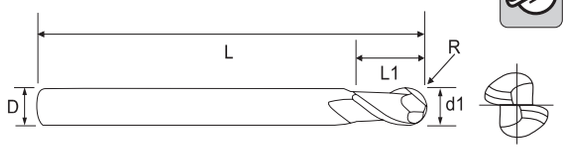
d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
3.0 mm	3.0 mm	10 mm	75 mm
4.0 mm	4.0 mm	10 mm	75 mm
5.0 mm	5.0 mm	15 mm	75 mm
6.0 mm	6.0 mm	15 mm	75 mm
3.0 mm	3.0 mm	10 mm	100 mm
4.0 mm	4.0 mm	15 mm	100 mm
5.0 mm	5.0 mm	15 mm	100 mm
6.0 mm	6.0 mm	30 mm	100 mm
7.0 mm	7.0 mm	30 mm	100 mm
8.0 mm	8.0 mm	40 mm	100 mm
9.0 mm	9.0 mm	40 mm	100 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
10.0 mm	10.0 mm	40 mm	100 mm
11.0 mm	11.0 mm	40 mm	100 mm
12.0 mm	12.0 mm	40 mm	100 mm
6.0 mm	6.0 mm	50 mm	150 mm
8.0 mm	8.0 mm	50 mm	150 mm
10.0 mm	10.0 mm	50 mm	150 mm
12.0 mm	12.0 mm	70 mm	150 mm
14.0 mm	14.0 mm	70 mm	150 mm
16.0 mm	16.0 mm	70 mm	150 mm
18.0 mm	18.0 mm	70 mm	150 mm
20.0 mm	20.0 mm	70 mm	150 mm

Alüminyum Radüs Freze 2 Ağız

HRC 45





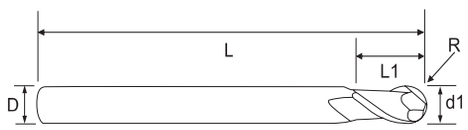
d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
2.00 mm	1.00 mm	4 mm	5 mm	50 mm
3.00 mm	1.50 mm	4 mm	8 mm	50 mm
4.00 mm	2.00 mm	4 mm	11 mm	50 mm
5.00 mm	2.50 mm	5 mm	13 mm	50 mm

d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
6.00 mm	3.00 mm	6 mm	18 mm	50 mm
8.00 mm	4.00 mm	8 mm	20 mm	65 mm
10.00 mm	5.00 mm	10 mm	25 mm	70 mm
12.00 mm	6.00 mm	12 mm	30 mm	75 mm

Uzun Alüminyum Radüs Freze

HRC 45





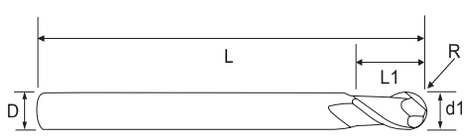
d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
2.00 mm	1.00 mm	4 mm	8 mm	100 mm
3.00 mm	1.50 mm	4 mm	10 mm	100 mm
4.00 mm	2.00 mm	4 mm	15 mm	100 mm
5.00 mm	2.50 mm	5 mm	20 mm	100 mm
6.00 mm	3.00 mm	6 mm	20 mm	100 mm
8.00 mm	4.00 mm	8 mm	30 mm	100 mm

d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
10.00 mm	5.00 mm	10 mm	40 mm	100 mm
12.00 mm	6.00 mm	12 mm	40 mm	100 mm
6.00 mm	3.00 mm	6 mm	30 mm	150 mm
8.00 mm	4.00 mm	8 mm	30 mm	150 mm
10.00 mm	5.00 mm	10 mm	40 mm	150 mm
12.00 mm	6.00 mm	12 mm	40 mm	150 mm

Uzun Alüminyum Köşe Radüs Freze 3 Ağız

HRC 45





d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
6.0 mm	0.5 mm	6 mm	15 mm	100 mm
6.0 mm	1.0 mm	6 mm	15 mm	100 mm
8.0 mm	0.5 mm	8 mm	25 mm	100 mm
8.0 mm	1.0 mm	8 mm	25 mm	100 mm
10.0 mm	0.5 mm	10 mm	25 mm	100 mm
10.0 mm	1.0 mm	10 mm	25 mm	100 mm
12.0 mm	0.5 mm	12 mm	30 mm	100 mm
12.0 mm	1.0 mm	12 mm	30 mm	100 mm

d1 (Çap)	R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
6.0 mm	0.5 mm	6 mm	15 mm	150 mm
6.0 mm	1.0 mm	6 mm	15 mm	150 mm
8.0 mm	0.5 mm	8 mm	30 mm	150 mm
8.0 mm	1.0 mm	8 mm	30 mm	150 mm
10.0 mm	0.5 mm	10 mm	30 mm	150 mm
10.0 mm	1.0 mm	10 mm	30 mm	150 mm
12.0 mm	0.5 mm	12 mm	30 mm	150 mm
12.0 mm	1.0 mm	12 mm	30 mm	150 mm

Tek Ağızlı Düz Karbür Freze

HRC 45 HRC 55



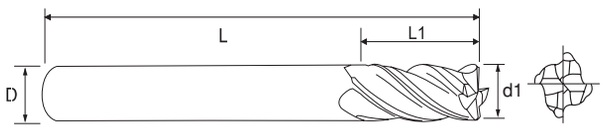
d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
3.0 mm	3.0 mm	15 mm	60 mm
4.0 mm	4.0 mm	20 mm	60 mm
5.0 mm	5.0 mm	20 mm	60 mm
6.0 mm	6.0 mm	20 mm	60 mm

R (Radüs)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
8.0 mm	8.0 mm	25 mm	65 mm
10.0 mm	10.0 mm	30 mm	75 mm
12.0 mm	12.0 mm	30 mm	75 mm

Kabatalaş Karbür Freze 4 Ağız

HRC 45 HRC 55





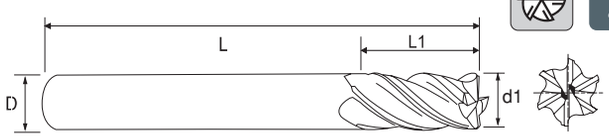
d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
4.0 mm	6.0 mm	15 mm	50 mm
5.0 mm	5.0 mm	15 mm	50 mm
6.0 mm	6.0 mm	15 mm	50 mm
8.0 mm	8.0 mm	20 mm	60 mm
10.0 mm	10.0 mm	25 mm	75 mm
12.0 mm	12.0 mm	30 mm	75 mm
14.0 mm	14.0 mm	45 mm	100 mm
16.0 mm	16.0 mm	45 mm	100 mm
18.0 mm	18.0 mm	45 mm	100 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
20.0 mm	20.0 mm	45 mm	100 mm
6.0 mm	6.0 mm	25 mm	100 mm
8.0 mm	8.0 mm	40 mm	100 mm
10.0 mm	10.0 mm	40 mm	100 mm
12.0 mm	12.0 mm	40 mm	100 mm
8.0 mm	8.0 mm	40 mm	100 mm
10.0 mm	10.0 mm	40 mm	100 mm
12.0 mm	12.0 mm	40 mm	100 mm

Çok Ağızlı Freze 6 Ağız

HRC 45





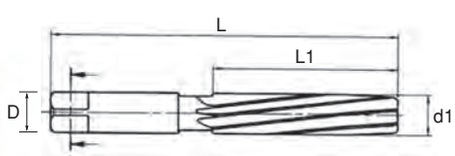
d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
6.0 mm	6.0 mm	15 mm	50 mm
8.0 mm	8.0 mm	20 mm	60 mm
10.0 mm	10.0 mm	25 mm	75 mm
12.0 mm	12.0 mm	25 mm	75 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
14.0 mm	6.0 mm	40 mm	100 mm
16.0 mm	8.0 mm	40 mm	100 mm
18.0 mm	10.0 mm	40 mm	100 mm
20.0 mm	12.0 mm	40 mm	100 mm

Sert Maden Makine Raybası

HRC 45



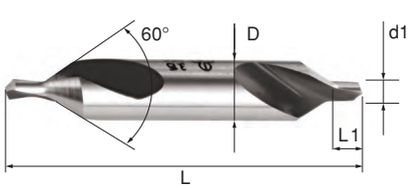


d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
2.00 mm	2.00 mm	25 mm	50 mm
2.50 mm	2.50 mm	25 mm	50 mm
3.00 mm	3.00 mm	25 mm	50 mm
4.00 mm	4.00 mm	26 mm	55 mm
5.00 mm	5.00 mm	30 mm	60 mm
6.00 mm	6.00 mm	36 mm	75 mm
8.00 mm	8.00 mm	50 mm	100 mm
10.00 mm	10.00 mm	60 mm	120 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
12.00 mm	12.00 mm	60 mm	120 mm
8.00 mm	8.00 mm	75 mm	150 mm
10.00 mm	10.00 mm	75 mm	150 mm
12.00 mm	12.00 mm	75 mm	150 mm
14.00 mm	14.00 mm	75 mm	150 mm
16.00 mm	16.00 mm	75 mm	150 mm
18.00 mm	18.00 mm	75 mm	150 mm
20.00 mm	20.00 mm	75 mm	150 mm

Karbür Punta Matkabı

HRC 45



d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
1.00 mm	3 mm	1.30 mm	50 mm
1.25 mm	3 mm	1.60 mm	50 mm
1.60 mm	4 mm	2.00 mm	50 mm
2.00 mm	5 mm	2.50 mm	50 mm
2.50 mm	6 mm	3.10 mm	50 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
3.15 mm	8 mm	3.90 mm	63 mm
4.00 mm	10 mm	5.00 mm	72 mm
5.00 mm	12 mm	6.30 mm	83 mm
6.30 mm	16 mm	8.00 mm	92 mm
8.00 mm	20 mm	10.10 mm	100 mm

Karbür NC Punta Matkabı

HRC 45



d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
3.0 mm	3.0 mm	8.0 mm	50 mm
4.0 mm	4.0 mm	10.0 mm	50 mm
5.0 mm	5.0 mm	13.0 mm	50 mm
6.0 mm	6.0 mm	13.0 mm	57 mm
8.0 mm	8.0 mm	20.0 mm	63 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
10.0 mm	10.0 mm	20.0 mm	75 mm
12.0 mm	12.0 mm	24.0 mm	75 mm
14.0 mm	14.0 mm	25.0 mm	100 mm
16.0 mm	16.0 mm	30.0 mm	100 mm

Karbür NC Punta Matkabı 60°

HRC 45



d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
3.0 mm	3.0 mm	8.0 mm	50 mm
4.0 mm	4.0 mm	10.0 mm	50 mm
5.0 mm	5.0 mm	13.0 mm	50 mm
6.0 mm	6.0 mm	13.0 mm	57 mm
8.0 mm	8.0 mm	20.0 mm	63 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
10.0 mm	10.0 mm	20.0 mm	75 mm
12.0 mm	12.0 mm	24.0 mm	75 mm
14.0 mm	14.0 mm	25.0 mm	100 mm
16.0 mm	16.0 mm	30.0 mm	100 mm

Karbür NC Punta Matkabı 4 Ağız

HRC 45



d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
3.0 mm	3.0 mm	8.0 mm	50 mm
4.0 mm	4.0 mm	10.0 mm	50 mm
5.0 mm	5.0 mm	13.0 mm	50 mm
6.0 mm	6.0 mm	13.0 mm	57 mm
8.0 mm	8.0 mm	20.0 mm	63 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
10.0 mm	10.0 mm	20.0 mm	75 mm
12.0 mm	12.0 mm	24.0 mm	75 mm
14.0 mm	14.0 mm	25.0 mm	100 mm
16.0 mm	16.0 mm	30.0 mm	100 mm

Karbür NC Punta Matkabı 60°4 Ağız

HRC 45

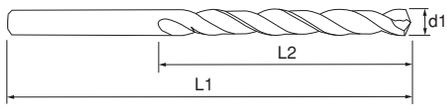


d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
3.0 mm	3.0 mm	8.0 mm	50 mm
4.0 mm	4.0 mm	10.0 mm	50 mm
5.0 mm	5.0 mm	13.0 mm	50 mm
6.0 mm	6.0 mm	13.0 mm	57 mm
8.0 mm	8.0 mm	20.0 mm	63 mm

d1 (Çap)	D (Şaft)	L1 (Kesme Boyu)	L (Tam Boy)
10.0 mm	10.0 mm	20.0 mm	75 mm
12.0 mm	12.0 mm	24.0 mm	75 mm
14.0 mm	14.0 mm	25.0 mm	100 mm
16.0 mm	16.0 mm	30.0 mm	100 mm

HSS Silindirik Saplı Matkap Ucu





HSS DIN 338

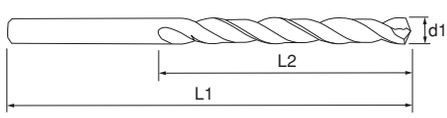
d1 h8	L1	L2
0.4 mm	20 mm	5 mm
0.5 mm	22 mm	6 mm
0.6 mm	24 mm	7 mm
0.7 mm	28 mm	9 mm
0.8 mm	30 mm	10 mm
0.9 mm	32 mm	11 mm
1.0 mm	34 mm	12 mm
1.1 mm	36 mm	14 mm
1.2 - 1.3 mm	38 mm	16 mm
1.4 - 1.5 mm	40 mm	18 mm
16 - 1.7 mm	43 mm	20 mm
1.8 - 1.9 mm	46 mm	22 mm
2.0 - 2.1 mm	49 mm	24 mm
2.2 - 2.3 mm	53 mm	27 mm

d1 h8	L1	L2
2.4 - 2.6 mm	57 mm	30 mm
2.7 - 3.0 mm	61 mm	33 mm
3.1 - 3.3 mm	65 mm	36 mm
3.4 - 3.7 mm	70 mm	39 mm
3.8 - 4.2 mm	75 mm	43 mm
4.3 - 4.7 mm	80 mm	47 mm
4.8 - 5.3 mm	86 mm	52 mm
5.4 - 6.0 mm	93 mm	57 mm
6.1 - 6.7 mm	101 mm	63 mm
6.8 - 7.5 mm	109 mm	69 mm
7.6 - 8.5 mm	117 mm	75 mm
8.6 - 9.5 mm	125 mm	81 mm
9.6 - 10.6 mm	133 mm	87 mm
10.7 - 11.8 mm	142 mm	94 mm

d1 h8	L1	L2
11.9 - 13.2 mm	151 mm	101 mm
13.3 - 14.0 mm	160 mm	108 mm
14.1 - 15.0 mm	169 mm	114 mm
15.1 - 16.0 mm	178 mm	120 mm
16.5 - 17.0 mm	184 mm	125 mm
17.5 - 18.0 mm	191 mm	130 mm
18.5 - 19.0 mm	198 mm	135 mm
19.5 - 20.0 mm	205 mm	140 mm
20.5 - 21.0 mm	213 mm	145 mm
21.5 - 22.0 mm	221 mm	150 mm
22.5 - 23.0 mm	229 mm	155 mm
23.5 mm	229 mm	155 mm
24.0 - 24. mm5	236 mm	160 mm
25.0 mm	236 mm	160 mm

HSS Silindirik Saplı Uzun Matkap Ucu





HSS DIN 340

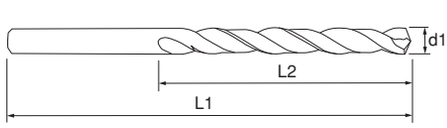
d1 h8	L1	L2
1.5 mm	70 mm	45 mm
2.0 mm	85 mm	56 mm
2.5 mm	95 mm	62 mm
3.0 mm	100 mm	66 mm
3.2 mm	106 mm	69 mm
3.3 mm	106 mm	73 mm
3.5 mm	112 mm	73 mm
3.8 mm	112 mm	78 mm
4.0 - 4.2 mm	119 mm	78 mm

d1 h8	L1	L2
4.5 mm	126 mm	82 mm
5.0 mm	132 mm	87 mm
5.5 - 6.0 mm	139 mm	91 mm
6.5 mm	148 mm	97 mm
7.0 - 7.5 mm	156 mm	102 mm
8.0 - 8.5 mm	165 mm	109 mm
9.0 - 9.5 mm	175 mm	115 mm
10.0 - 10.5 mm	184 mm	121 mm
11.0 - 11.5 mm	195 mm	128 mm

d1 h8	L1	L2
12.0 - 12.5 mm	205 mm	134 mm
13.0 mm	205 mm	134 mm
13.5 - 14.0 mm	214 mm	140 mm
14.5 - 15.0 mm	220 mm	144 mm
15.5 - 16.0 mm	227 mm	149 mm
16.5 - 17.0 mm	235 mm	154 mm
17.5 - 18.0 mm	241 mm	158 mm
18.5 - 19.0 mm	247 mm	162 mm
19.5 - 20.0 mm	254 mm	166 mm

HSS Silindirik Saplı Çok Uzun Matkap Ucu





HSS DIN 1869

1869 / 1

d1 h8	L1	L2
2.0 mm	125 mm	85 mm
2.5 mm	140 mm	95 mm
3.0 mm	150 mm	100 mm
3.5 mm	155 mm	105 mm
4.0 mm	175 mm	120 mm
4.5 mm	185 mm	125 mm
5.0 mm	195 mm	135 mm
5.5 mm	205 mm	140 mm
6.0 mm	205 mm	140 mm
6.5 mm	215 mm	150 mm
7.0 mm	225 mm	155 mm
7.5 mm	225 mm	155 mm
8.0 mm	240 mm	165 mm
8.5 mm	240 mm	165 mm
9.0 mm	250 mm	175 mm
10.0 mm	265 mm	185 mm
11.0 mm	280 mm	195 mm
12.0 mm	295 mm	205 mm
13.0 mm	295 mm	205 mm

1869 / 2

d1 h8	L1	L2
3.0 mm	190 mm	130 mm
3.5 mm	210 mm	145 mm
4.0 mm	220 mm	150 mm
4.5 mm	235 mm	160 mm
5.0 mm	245 mm	170 mm
5.5 mm	260 mm	180 mm
6.0 mm	260 mm	180 mm
6.5 mm	275 mm	190 mm
7.0 mm	290 mm	200 mm
7.5 mm	290 mm	200 mm
8.0 mm	305 mm	210 mm
8.5 mm	305 mm	210 mm
9.0 mm	320 mm	220 mm
10.0 mm	340 mm	235 mm
11.0 mm	365 mm	235 mm
12.0 mm	375 mm	260 mm
13.0 mm	375 mm	260 mm

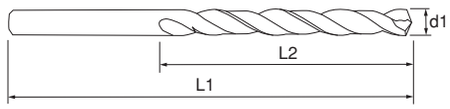
1869 / 3

d1 h8	L1	L2
3.5 mm	265 mm	180 mm
4.0 mm	280 mm	190 mm
4.5 mm	295 mm	200 mm
5.0 mm	315 mm	210 mm
5.5 mm	330 mm	225 mm
6.0 mm	330 mm	225 mm
6.5 mm	350 mm	235 mm
7.0 mm	370 mm	250 mm
7.5 mm	370 mm	250 mm
8.0 mm	390 mm	265 mm
8.5 mm	390 mm	265 mm
9.0 mm	410 mm	280 mm
10.0 mm	430 mm	295 mm
11.0 mm	455 mm	310 mm
12.0 mm	480 mm	330 mm
13.0 mm	480 mm	330 mm

HSS Mors Konik Saplı Matkap Ucu

HSS DIN 345





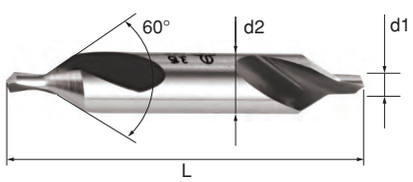
d1 h8	L1	L2	Mors Konik
8.0 - 8.5 mm	156 mm	75 mm	1 mm
9.0 - 9.5 mm	162 mm	81 mm	1 mm
10.0 - 10.5 mm	168 mm	87 mm	1 mm
11.0 - 11.5 mm	175 mm	94 mm	1 mm
12.0 - 12.5 mm	182 mm	101 mm	1 mm
13.0 mm	182 mm	101 mm	1 mm
13.5 mm	189 mm	108 mm	1 mm
14.0 mm	189 mm	108 mm	2 mm
14.5 - 15.0 mm	212 mm	114 mm	2 mm
15.5 - 16.0 mm	218 mm	120 mm	2 mm
16.5 - 17.0 mm	223 mm	125 mm	2 mm
17.5 - 18.0 mm	228 mm	130 mm	2 mm
18.5 - 19.0 mm	233 mm	135 mm	2 mm

d1 h8	L1	L2	Mors Konik
19.5 - 20.0 mm	238 mm	140 mm	2 mm
20.5 - 21.0 mm	243 mm	145 mm	2 mm
21.5 - 22.0 mm	248 mm	150 mm	2 mm
22.5 - 23.0 mm	253 mm	155 mm	2 mm
23.5 mm	276 mm	155 mm	3 mm
24.0 - 24.5 mm	281 mm	160 mm	3 mm
25.0 mm	281 mm	160 mm	3 mm
25.5 - 26.0 mm	286 mm	165 mm	3 mm
26.5 mm	286 mm	165 mm	3 mm
27.0 mm	281 mm	170 mm	3 mm
27.5 - 28.0 mm	291 mm	170 mm	3 mm
28.5 - 29.0 mm	296 mm	175 mm	3 mm
29.5 - 30.0 mm	296 mm	175 mm	3 mm

d1 h8	L1	L2	Mors Konik
30.5 - 31.0 mm	301 mm	180 mm	3 mm
31.5 mm	301 mm	180 mm	3 mm
32.0 - 32.5 mm	334 mm	185 mm	4 mm
33.0 - 33.5 mm	334 mm	185 mm	4 mm
34.0 - 34.5 mm	339 mm	190 mm	4 mm
35.0 - 35.5 mm	339 mm	190 mm	4 mm
36.0 - 36.5 mm	344 mm	195 mm	4 mm
37.0 - 37.5 mm	344 mm	195 mm	4 mm
38.0 - 38.5 mm	349 mm	200 mm	4 mm
39.0 - 39.5 mm	349 mm	200 mm	4 mm
40.0 mm	349 mm	200 mm	4 mm

HSS Punta Matkabı Standart Boy

HSS DIN 333

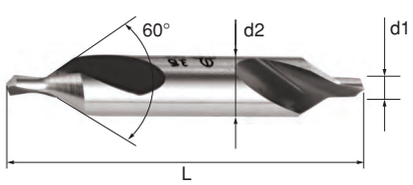


d1	d2	L (Tam Boy)
1.00 mm	3.15 mm	3.15 mm
1.25 mm	3.15 mm	3.15 mm
1.60 mm	4.00 mm	35.5 mm
2.00 mm	5.00 mm	40.0 mm

d1	d2	L (Tam Boy)
2.50 mm	6.30 mm	45.0 mm
3.15 mm	8.00 mm	50.0 mm
4.00 mm	10.00 mm	56.0 mm
5.00 mm	12.50 mm	63.0 mm

HSS Punta Matkabı Uzun Boy

HSS DIN 333

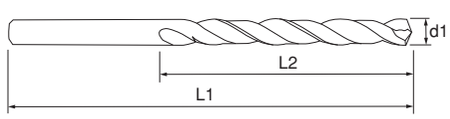


d1	d2	L (Tam Boy)
2.00 mm	5.00 mm	76 mm
2.50 mm	6.30 mm	102 mm
3.15	8.00 mm	102 mm

d1	d2	L (Tam Boy)
4.00 mm	10.00 mm	127 mm
5.00 mm	12.50 mm	127 mm
6.30 mm	16.00 mm	127 mm

Beton Matkabı Elmas Uçlu





d1	L1	L2
3.0 mm	60 mm	30 mm
4.0 mm	74 mm	37 mm
5.0 mm	85 mm	43 mm
6.0 mm	99 mm	55 mm
7.0 mm	101 mm	56 mm
8.0 mm	120 mm	65 mm

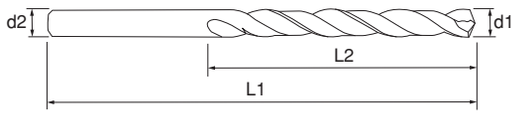
d1	L1	L2
9.0 mm	120 mm	65 mm
10.0 mm	120 mm	70 mm
11.0 mm	147 mm	82 mm
12.0 mm	148 mm	85 mm
13.0 mm	148 mm	85 mm
14.0 mm	150 mm	85 mm

d1	L1	L2
15.0 mm	150 mm	85 mm
16.0 mm	150 mm	85 mm
18.0 mm	160 mm	100 mm
20.0 mm	160 mm	100 mm

Elmas Matkap Ucu

HRC 45





d1	L2	L1	d2
0.50	3	20	0.50
1.00	6	26	1.00
1.50	9	32	1.50
2.00	12	38	2.00
2.10	12	38	2.10
2.20	13	40	2.20
2.30	13	40	2.30
2.40	13	40	2.40
2.50	13	43	2.50
2.60	14	43	2.60
2.70	14	46	2.70
2.80	16	46	2.80
2.90	16	46	2.90
3.00	16	46	3.00
3.10	18	49	3.10
3.20	18	49	3.20
3.30	18	49	3.30
3.40	20	52	3.40
3.50	20	52	3.50
3.60	20	52	3.60
3.70	20	52	3.70
3.80	22	55	3.80
3.90	22	55	3.90
4.00	22	55	4.00
4.10	22	55	4.10
4.20	22	55	4.20
4.30	24	58	4.30
4.40	24	58	4.40
4.50	24	58	4.50
4.60	24	58	4.60
4.70	24	58	4.70
4.80	24	58	4.80
4.90	24	58	4.90
5.00	26	62	5.00
5.10	26	62	5.10
5.20	26	62	5.20
5.30	26	62	5.30
5.40	26	62	5.40
5.50	28	66	5.50
5.60	28	66	5.60
5.70	28	66	5.70
5.80	28	66	5.80
5.90	28	66	5.90
6.00	28	66	6.00
6.10	31	70	6.10
6.20	31	70	6.20
6.30	31	70	6.30
6.40	31	70	6.40
6.50	31	70	6.50

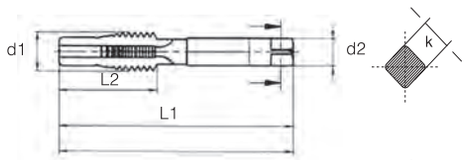
d1	L2	L1	d2
6.60	31	70	6.60
6.70	31	70	6.70
6.80	31	70	6.80
6.90	34	74	6.90
7.00	34	74	7.00
7.10	34	74	7.10
7.20	34	74	7.20
7.30	34	74	7.30
7.40	34	74	7.40
7.50	34	74	7.50
7.60	37	79	7.60
7.70	37	79	7.70
7.80	37	79	7.80
7.90	37	79	7.90
8.00	37	79	8.00
8.10	37	79	8.10
8.20	37	79	8.20
8.30	37	79	8.30
8.40	37	79	8.40
8.50	37	79	8.50
8.60	37	79	8.60
8.70	37	79	8.70
8.80	37	79	8.80
8.90	37	79	8.90
9.00	40	84	9.00
9.10	40	84	9.10
9.20	40	84	9.20
9.30	40	84	9.30
9.40	40	84	9.40
9.50	40	84	9.50
9.60	40	84	9.60
9.70	43	89	9.70
9.80	43	89	9.80
9.90	43	89	9.90
10.00	43	89	10.00
10.20	43	89	10.20
10.50	43	89	10.50
11.00	47	95	11.00
11.50	47	95	11.50
12.00	51	102	12.00
12.50	51	102	12.50
13.00	51	102	13.00
13.50	51	102	13.50
14.00	54	107	14.00
14.50	54	107	14.50
15.00	56	111	15.00
15.50	56	111	15.50
16.00	58	115	16.00
17.00	62	123	17.00

3'lü El Takımı Kılavuzu

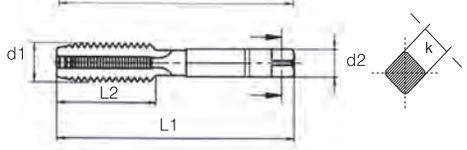
HSS DIN 352



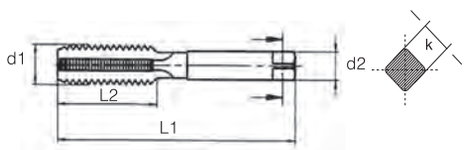
ÖN



ORTA



SON

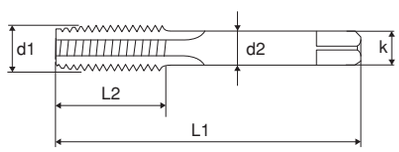


d1 mm	P adım	L1 mm	L2 mm	d2 mm	k (h12) mm
M2	0.4	40	8	2,8	2,1
M2,5	0.45	40	9	2,8	2,1
M3	0.5	40	11	3,5	2,7
M3,5	0.6	45	13	4,0	3,0
M4	0.7	45	13	4,5	3,4
M4.5	0.75	50	16	6,0	4,9
M5	0.8	50	16	6,0	4,9
M6	1	50	19	6,0	4,9
M7	1	50	19	6,0	4,9
M8	1.25	56	22	6,0	4,9
M9	1.25	63	22	7,0	5,5
M10	1.5	70	24	7,0	5,5
M11	1.5	70	24	8,0	6,2
M12	1.75	75	29	9,0	7,0
M14	2	80	30	11,0	9,0
M16	2	80	32	12,0	9,0
M18	2.5	95	40	14,0	11,0
M20	2.5	95	40	16,0	12,0
M22	2.5	100	40	18,0	14,5
M24	3	110	50	18,0	14,5
M27	3	110	50	20,0	16,0
M30	3.5	125	56	22,0	18,0
M33	3.5	125	56	25,0	20,0
M36	4	150	63	28,0	22,0
M39	4	150	63	32,0	24,0
M42	4.5	150	63	32,0	24,0
M45	4.5	160	70	36,0	29,0
M48	5	180	75	36,0	29,0

2'li Takım Boru Vidalı (Gaz Diş) El Kılavuzu

HSS DIN 5157



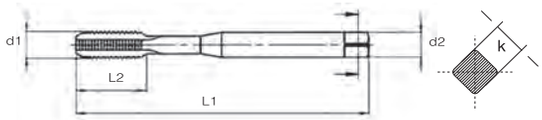


d1	P adım	L1	L2	d2	k	matkap çapı
G 1/8"	28	63	18	7.0	5.5	8.8
G 1/4"	19	63	20	11.0	9.0	11.8
G 3/8"	19	70	20	12.0	9.0	15.25
G 1/2"	14	80	22	16.0	12.0	19.0
G 3/4"	14	100	28	20.0	16.0	24.5

Düz Kanallı Makina Kılavuzu

HSS-E DIN 371/C





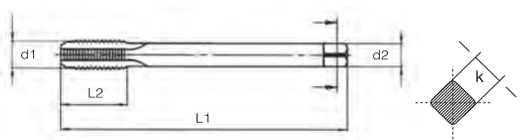
d1	P adım	L1	L2	d2	k	matkap Ø
M3	0.5	56	10	3.5	2.7	2.5
M3.5	0.6	56	12	4.0	3.0	2.9
M4	0.7	63	12	4.5	3.4	3.3
M5	0.8	70	14	6.0	4.9	4.2

d1	P adım	L1	L2	d2	k	matkap Ø
M6	1	80	16	6.0	4.9	5.0
M8	1.25	90	18	8.0	6.2	6.8
M10	1.5	100	20	10.0	8.0	8.5
M12	1.75	110	24	12.0	9.0	10.2

Düz Kanallı Makina Kılavuzu

HSS-E DIN 376/C





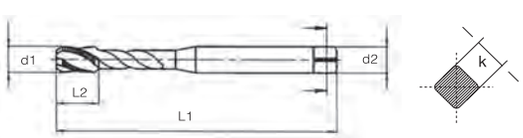
d1	P adım	L1	L2	d2	k	matkap Ø
M3	0.5	56	10	2.2	2.0	2.5
M4	0.7	63	12	2.8	2.1	3.3
M5	0.8	70	14	3.5	2.7	4.2
M6	1	80	16	4.5	3.4	5.0
M8	1.25	90	18	6.0	4.9	6.8
M10	1.5	100	20	7.0	5.5	8.5
M12	1.75	110	24	9.0	7.0	10.2
M14	2	110	26	11.0	9.0	12.0

d1	P adım	L1	L2	d2	k	matkap Ø
M16	2	110	28	12.0	9.0	14.0
M18	2.5	125	30	14.0	11.0	15.5
M20	2.5	140	32	16.0	12.0	17.5
M22	2.5	140	32	18.0	14.5	19.5
M24	3	160	34	18.0	14.5	21.0
M27	3	160	38	20.0	16.0	24.0
M30	3.5	180	45	22.0	18.0	26.5

Helis Kanallı Makina Kılavuzu

HSS-E DIN 371/C





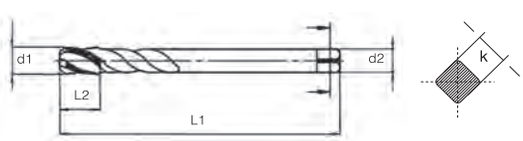
d1	P adım	L1	L2	d2	k	matkap Ø
M3	0.5	56	6	3.5	2.7	2.5
M4	0.7	63	7	4.5	3.4	3.3
M5	0.8	70	8	6.0	4.9	4.2
M6	1	80	10	6.0	4.9	5.0

d1	P adım	L1	L2	d2	k	matkap Ø
M8	1.25	90	12	8.0	6.2	6.8
M10	1.5	100	12	10.0	8.0	8.5
M12	1.75	110	14	12.0	9.0	10.2

Helis Kanallı Makina Kılavuzu

HSS-E DIN 376/C

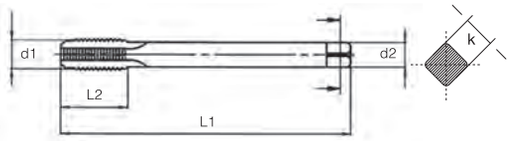




d1	P adım	L1	L2	d2	k	matkap Ø
M3	0.5	56	6	2.2	2.0	2.5
M4	0.7	63	7	2.8	2.1	3.3
M5	0.8	70	8	3.5	2.7	4.2
M6	1	80	10	4.5	3.4	5.0
M8	1.25	90	12	6.0	4.9	6.8
M10	1.5	100	14	7.0	5.5	8.5
M12	1.75	110	16	9.0	7.0	10.2
M14	2	110	18	11.0	9.0	12.0

d1	P adım	L1	L2	d2	k	matkap Ø
M16	2	110	20	12.0	9.0	14.0
M18	2.5	125	22	14.0	11.0	15.5
M20	2.5	140	22	16.0	12.0	17.5
M22	2.5	140	24	18.0	14.5	19.5
M24	3	160	28	18.0	14.5	21.0
M27	3	160	30	20.0	16.0	24.0
M30	3.5	180	35	22.0	18.0	26.5

Boru Vidalı (Gaz Diş) Makina Kılavuzları



HSS-E | DIN 5156/C



Düz

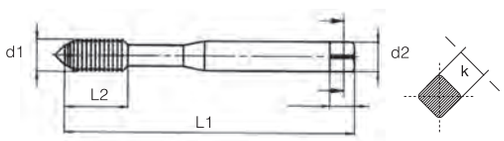


Helis

d1	P adım	L1	L2	d2	k	matkap Ø
G 1/8"	28	90	20	7.0	5.5	8.8
G 1/4"	19	100	22	11.0	9.0	11.8
G 3/8"	19	100	22	12.0	9.0	15.25
G 1/2"	14	125	25	16.0	12.0	19.0
G 3/4"	14	140	28	20.0	16.0	24.5

d1	P adım	L1	L2	d2	k	matkap Ø
G 1/8"	28	90	20	7.0	5.5	8.8
G 1/4"	19	100	22	11.0	9.0	11.8
G 3/8"	19	100	22	12.0	9.0	15.25
G 1/2"	14	125	25	16.0	12.0	19.0
G 3/4"	14	140	28	20.0	16.0	24.5

Ovalama Makina Kılavuzları



HSS-E | DIN 371/C





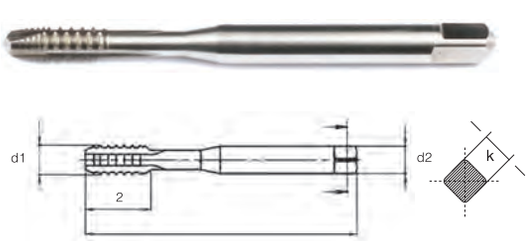
Yağ Oluklu

d1	P adım	L1	L2	d2	k	matkap Ø
M3	0.5	56	11	3.5	2.7	2.8
M4	0.7	63	13	4.5	3.4	3.7
M5	0.8	70	16	6.0	4.9	4.7
M6	1	80	19	6.0	4.9	5.5
M8	1.25	90	22	8.0	6.2	7.4
M10	1.5	100	24	10.0	8.0	9.3

d1	P adım	L1	L2	d2	k	matkap Ø
M3	0.5	56	11	3.5	2.7	2.8
M4	0.7	63	13	4.5	3.4	3.7
M5	0.8	70	16	6.0	4.9	4.7
M6	1	80	19	6.0	4.9	5.5
M8	1.25	90	22	8.0	6.2	7.4
M10	1.5	100	24	10.0	8.0	9.3

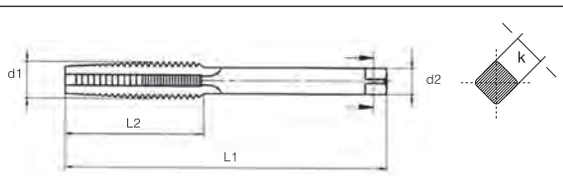
Atlamalı Makina Kılavuzu

HSS-E | DIN 371/C



d1	P adım	L1	L2	d2	k
M3	0.5	56	10	3.5	2.7
M4	0.7	63	12	4.5	3.4
M5	0.8	70	14	6.0	4.9
M6	1	80	16	6.0	4.9
M8	1.25	90	18	8.0	6.2
M10	1.5	100	20	10.0	8.0
M12	1.75	110	24	12.0	9.0

Somun Kılavuzu



HSS | DIN 357



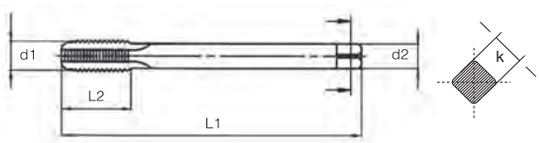
d1	P adım	L1	L2	d2	k
M3	0.5	70	22	2.2	-
M4	0.7	90	25	2.8	2.1
M5	0.8	100	28	3.5	2.7
M6	1	110	32	4.5	3.4
M8	1.25	125	40	6.0	4.9
M10	1.5	140	45	7.0	5.5
M12	1.75	180	50	9.0	7.0

d1	P adım	L1	L2	d2	k
M14	2.0	200	56	11.0	11.0
M16	2.0	200	63	12.0	12.0
M18	2.5	220	63	14.0	14.0
M20	2.5	250	70	15.0	15.0
M22	2.5	280	80	18.0	18.0
M24	3.0	280	80	18.0	18.0
M27	3.0	315	90	20.0	20.0

İnce Diş Makina Kılavuzu

HSS-E DIN 374/C



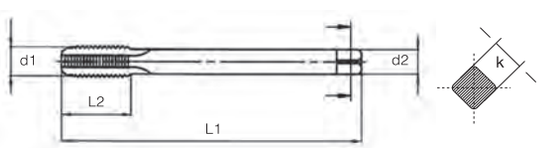


d1 mm	P adım	L1 mm	L2 mm	d2 mm	k (h12) mm
M6	0.75	80	14	4,5	3,4
M8	1	90	16	6,0	4,9
M10	1	90	20	7,0	5,5
M10	1.25	90	20	7,0	5,5
M12	1	100	22	9,0	7,0
M12	1.25	100	22	9,0	7,0
M12	1.5	100	22	9,0	7,0
M14	1	100	22	11,0	9,0
M14	1.25	100	22	11,0	9,0
M14	1.5	100	22	11,0	9,0
M16	1.5	100	22	12,0	9,0
M18	1.5	110	25	14,0	11,0
M20	1.5	125	25	16,0	12,0
M22	1.5	125	25	18,0	14,5
M24	1.5	140	28	18,0	14,5

UNC - Düz Makina Kılavuzu

HSS-E DIN 2183/C



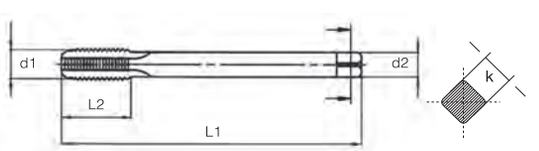


d1 mm	P adım	L1 mm	L2 mm	d2 mm	k (h12) mm
1/4"	20	80	19	4,5	3,4
5/16"	18	90	22	6,0	4,9
3/8"	16	100	24	7,0	5,5
7/16"	14	100	24	8,0	6,2
1/2"	13	110	29	9,0	7,0
9/16"	12	110	30	11,0	9,0
5/8"	11	110	32	12,0	9,0
3/4"	10	125	34	14,0	11,0
7/8"	9	140	34	18,0	14,5

UNF - Düz Makina Kılavuzu

HSS-E DIN 2183/C



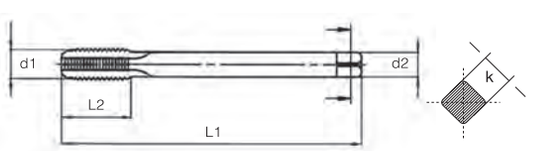


d1 mm	P adım	L1 mm	L2 mm	d2 mm	k (h12) mm
1/4"	28	80	19	4,5	3,4
5/16"	24	90	22	6,0	4,9
3/8"	24	100	24	7,0	5,5
7/16"	20	100	24	8,0	6,2
1/2"	20	110	29	9,0	7,0
9/16"	18	110	30	11,0	9,0
5/8"	18	110	32	12,0	9,0
3/4"	16	125	34	14,0	11,0
7/8"	14	140	34	18,0	14.5
1"	12	90	22	18,0	14,5

Whitworth - Düz Makina Kılavuzu

HSS-E DIN 2183/C



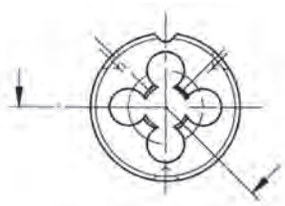


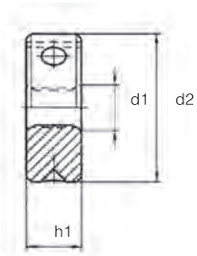
d1 mm	P adım	L1 mm	L2 mm	d2 mm	k (h12) mm
W 1/8"	40	56	11	3.5	2.7
W 5/32"	32	63	13	4.5	3.4
W 3/16"	24	70	16	6,0	4.9
W 7/32"	24	70	16	6,0	4.9
W 1/4"	20	80	19	6,0	4.9
W 5/16"	18	90	22	6,0	6.2
W 3/8"	16	100	24	10,0	8,0
W 7/16"	14	100	26	11,0	9,0
W 1/2"	12	110	28	12,0	9,0

Pafta

HSS DIN 223/B







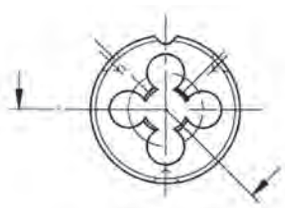
d1 mm	P adım	d2 mm	h1 mm
M2	0.4	16	5
M2,5	0.45	16	5
M3	0.5	20	5
M3,5	0.6	20	5
M4	0.7	20	5
M5	0.8	20	7
M6	1	20	7
M7	1	25	9
M8	1.25	25	9
M9	1.25	25	9
M10	1.5	30	11
M12	1.75	38	14
M14	2	38	14
M16	2	45	18
M18	2.5	45	18
M20	2.5	45	18

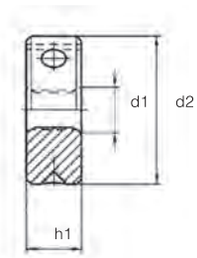
d1 mm	P adım	d2 mm	h1 mm
M22	2.5	55	22
M24	3	55	22
M27	3	65	25
M30	3.5	65	25
M33	3.5	65	25
M36	4	65	25
M39	4	75	30
M42	4.5	75	30
M45	4.5	90	36
M48	5	90	36
M52	5	90	36
M56	5.5	105	36
M60	5.5	105	36
M64	6	120	36
M68	6	120	36

Pafta İnce Diş

HSS DIN 223/B







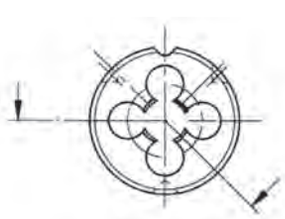
d1 mm	P adım	d2 mm	h1 mm
M 6	0.75	20	5
M 8	1	25	9
M 10	1	30	11
M 10	1.25	30	11
M 12	1	38	10
M 12	1.25	38	10
M 12	1.5	38	10
M 14	1	38	10
M 14	1.25	38	10

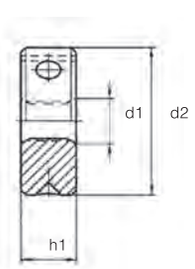
d1 mm	P adım	d2 mm	h1 mm
M 14	1.5	38	10
M 16	1	45	14
M 16	1.5	45	14
M 18	1.5	45	14
M 20	1.5	45	14
M 22	1.5	55	16
M 24	1.5	55	16
M 30	1.5	65	18

Pafta Gaz Diş

HSS DIN 5158/B



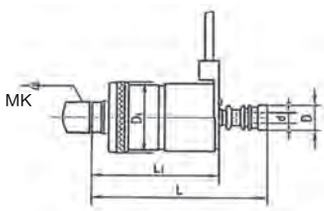




d1	P adım	d2	h1
G 1/8”	28	30	11
G 1/4”	19	38	10
G 3/8”	19	45	14
G 1/2”	14	45	14
G 3/4”	14	55	16
G 1”	11	65	18

Otomatik Kılavuz Çektirme Aparatı

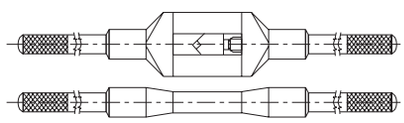




ÖLÇÜ	d(mm)	D (mm)	D_1 (mm)	L (mm)	L_1 (mm)	MK
M2-M7	2.5-6.5	23	55	135	95	MK2-MK3
M5-M12	3.5-10	28	75	164	114,5	MK3-MK4
M8-M20	6.3-14	38	90,5	205	135	MK3-MK4

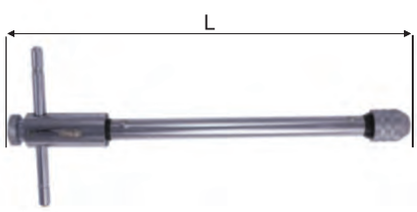
Kılavuz Kolu

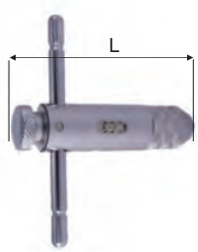




Tip	Kapasite
No: 0	1 - 8 mm
No: 1	1 - 10 mm
No: 2	4 - 12 mm
No: 3	5 - 20 mm
No: 4	11 - 27 mm
No: 5	13 - 32 mm

Cırcırlı Kılavuz Kolu





Kısa Tip

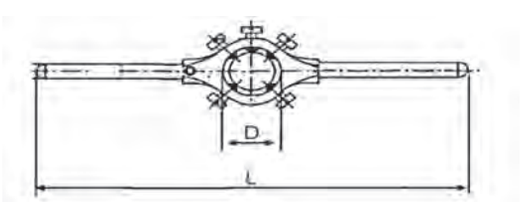
Tip	L	Kapasite
No: 1	85 mm	3 - 10 mm
No: 2	110 mm	5 - 12 mm

Uzun Tip

Tip	L	Kapasite
No: 10	250 mm	3 - 10 mm
No: 20	310 mm	5 - 12 mm

Pafta Kolu





Çap	h	Pafta Ölçüsü
20	5	3 - 4
20	7	4.5 - 6
25	9	7 - 9
30	11	10 - 11
38	14	12 - 14
45	18	16 - 20

Ters Kılavuz Seti

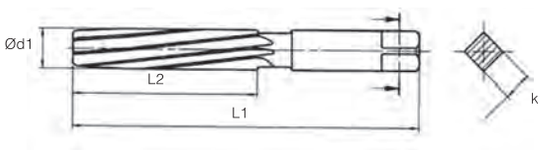


ADET	ÖLÇÜ
5 PARÇA	M3-M6/M6-M8/M8-M11/ M11-14/M14-M18
6 PARÇA	M3-M6/M6-M8/M8-M11/M11-14/ M14-M18/M18-24
8 PARÇA	M3-M6/M6-M8/M8-M11/M11-14/ M14-M18/M18-24/M24-M30/M30-M40

El Raybası

HSS DIN 206/B



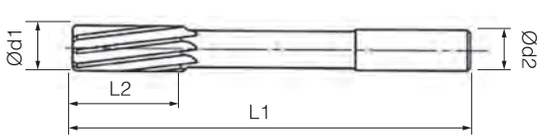


d1 mm	L1 mm	L2 mm	k mm
3,0	62	31	2,24
4,0	76	38	3,15
4,5	81	41	3,55
5,0	87	44	4,00
5,5	93	47	4,50
6,0	93	47	4,50
6,5	100	50	5,00
7,0	107	54	5,60
8,0	115	58	6,30
8,5	115	58	6,30
9,0	124	62	7,10
10,0	133	66	8,00
11,0	142	71	9,00
12,0	152	76	10,00
13,0	152	76	10,00
14,0	163	81	11,20
15,0	163	81	11,20
16,0	175	87	12,50
17,0	175	87	12,50
18,0	188	93	14,00
20,0	201	100	16,00
22.0	215	107	18.00
24.0	231	115	20.00
26.0	231	115	20.00
30.0	247	124	22.40
32.0	265	133	25.00
35.0	284	142	28.00
40.0	305	152	31.50

Silindir Saplı Makina Raybası H7

HSS DIN 212/D



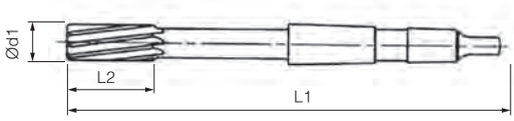


d1 mm	d2 (h9) mm	L1 mm	L2 mm
3	3,0	61	15
4	4,0	75	19
5	5,0	86	23
6	5,6	93	26
7	7,1	109	31
8	8,0	117	33
10	10,0	133	38
12	10,0	151	44
14	12,5	160	47
16	12,5	170	52
18	14,0	182	56
20	16,0	195	60

Mors Konik Saplı Makina Raybası H7

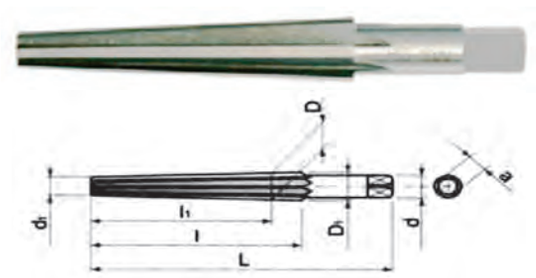
HSS DIN 208/B





d1 mm	L1 mm	L2 mm	Mors Konik No
8	156	33	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
22	237	64	2
24	268	68	3
25	268	68	3
28	277	71	3
30	281	73	3
32	317	77	4
35	321	78	4
40	329	81	4
45	336	83	4
50	344	86	4

Pim Raybası 1:10 Konik



d_1 (mm)	D (mm)	D_1 (mm)	L (mm)	l (mm)	d (mm)	a (mm)
4	10.00	11	100	70	10.0	8
9	16.00	17	120	80	12.5	10
14	24.00	25	160	110	20.0	16
20	32.00	34	200	140	25.0	20

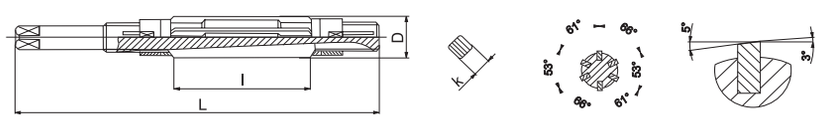
Konik Rayba 1:50 Konik



D (H7)	D_1 (mm)	L (mm)	l (mm)	d (mm)	a (mm)
3	4.06	80	58	4.0	3.15
4	5.26	93	68	5.0	4.00
5	6.36	100	73	6.3	5.00
6	8.00	135	105	8.0	6.30
8	10.80	180	145	10.0	8.00
10	13.40	215	175	12.5	10.00
12	16.00	255	210	14.0	11.20
14	18.00	255	210	14.0	11.20
16	20.40	280	230	18.0	14.00
20	24,80	310	250	22.4	18.00
25	30,70	370	300	28.0	22.40
30	36,10	400	320	31.5	25.00

Ayarlı Rayba Düz - Kovanlı



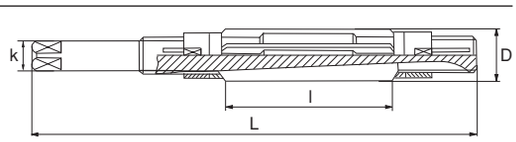


ÖLÇÜ (mm)	D (mm)	L (mm)	l (mm)	k (mm)	BIÇAK AD.
7,00-8,00	6	91	25	3	4
8,00-8,70	7	96	30	3,5	4
8,70-9,50	8	101	35	4	4
9,50-10,25	9	106	40	5	4
10,25-11,00	9,5	115	40	5	6
11,00-12,00	10	118	40	5	6
12,00-13,50	11	126	40	5	6
13,50-15,00	12	142	45	6	6
15,00-16,50	13	150	50	7	6
16,5-18,25	15	157	55	8	6

ÖLÇÜ (mm)	D (mm)	L (mm)	l (mm)	k (mm)	BIÇAK AD.
18,25-19,75	16	160	57	8	6
19,75-21,50	18	162	57	9	6
21,50-23,75	20	190	68	10	6
23,75-27,00	22	200	68	12	6
27,00-30,00	24	210	70	14	6
30,00-34,00	28	246	85	16	6
34,00-38,75	32	292	100	18	6
38,75-46,00	38	311	100	22	6
46,00-56,00	42	333	105	24	6

Ayarlı Kovansız El Raybası





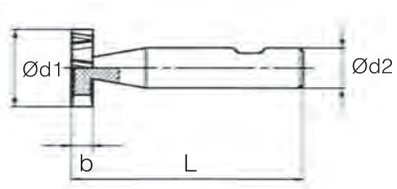
Ölçü	D	L	l	k	Bıçak Ad.
7.00 - 8.00	6	91	25	3	4
8.00 - 8.70	7	96	30	3.5	4
8.70 - 9.50	8	101	35	4	4
9.50 - 10.25	9	106	40	5	4
10.25 - 11.00	9.5	115	40	5	6
11.00 - 12.00	10	118	40	5	6
12.00 - 13.50	11	126	40	5	6
13.50 - 15.00	12	142	45	6	6
15.00 - 16.50	13	150	50	7	6
16.50 - 18.25	15	157	55	8	6

Ölçü	D	L	l	k	Bıçak Ad.
18.25 - 19.75	16	160	57	8	6
19.75 - 21.50	18	162	57	9	6
21.50 - 23.75	20	190	68	10	6
23.75 - 27.00	22	200	68	12	6
27.00 - 30.00	24	210	70	14	6
30.00 - 34.00	28	246	85	16	6
34.00 - 38.75	32	292	100	18	6
38.75 - 46.00	38	311	100	22	6
46.00 - 56.00	42	333	105	24	6

T Yarık Freze

HSS-E DIN 1833/C





d1 mm	b (e8) mm	d2 mm	L1 mm
13,5	3	10	56
13,5	4	10	56
16,5	3	10	56
16,5	4	10	56
16,5	5	10	56
19,5	4	10	63
19,5	5	10	63
19,5	6	10	63
22,5	5	10	63
22,5	6	10	63
22,5	8	10	63
25,5	6	10	63
28,5	6	10	63
28,5	8	10	63
28,5	10	12	71
32,5	8	10	71
32,5	10	12	71
45,5	10	12	71

Kırlangıç Freze

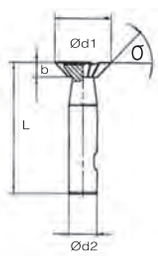
HSS-E DIN 850/D

FORM A



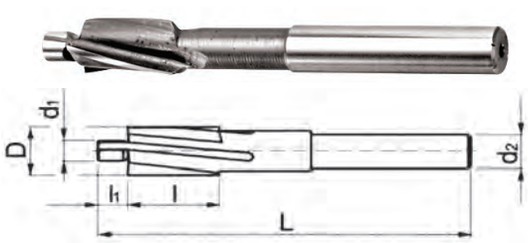
FORM B





d1 mm	b mm	L mm	d2 mm	d1 mm	b mm	L mm	d2 mm
16 X 45°	4,0	60	12	16 X 60°	6,3	60	12
20 X 45°	5,0	63	12	20 X 60°	8,0	63	12
25 X 45°	6,3	67	12	25 X 60°	10,0	67	12
32 X 45°	8,0	71	16	32 X 60°	12,5	71	16

Sabit Pilotlu Havşa Frezesi (İmbus Freze)



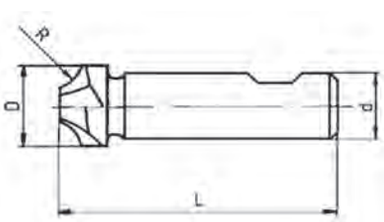
İmbus civata başlığı açmak için kullanılır.

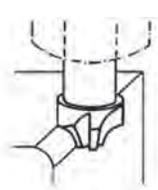
CİVATA	D (mm)	d_1 (mm)	d_2 (mm)	L (mm)	l (mm)	l1 (mm)
M3	6	3,2	5	71	14	4
M4	8	4,3	5	71	14	4
M5	10	5,3	8	80	18	6
M6	11	6,4	8	80	18	6
M8	15	8,4	12,5	100	22	8
M10	18	10,5	12,5	100	22	10
M12	20	13,0	12,5	100	22	12
M14	24	15,0	12,5	100	22	14
M16	26	17,0	12,5	100	22	16
M18	30	19,0	12,5	100	22	18
M20	33	20.0	12.5	100	22	20

Köşe Yuvarlama Frezesi



Plakaların köşelerine pah kırmak için kullanılır.





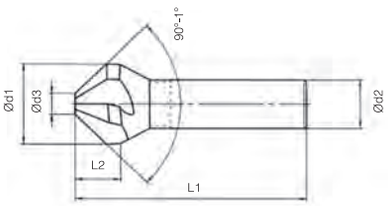
R H11	D js 16	L
1	8	60
1,5	10	60
1,6	10	60
2	10	60
2,5	10	60
3	12	60
3,5	14	60
4	14	60
4,5	15	60
5	16	60
5,5	21	67
6	21	67
6,5	24	71
7	24	71
7.5	24	71

R H11	D js 16	L
8	24	71
8,5	28	85
9	28	85
9,5	28	85
10	28	85
10,5	35	90
11	35	90
12	35	90
12,5	42	100
13	42	100
14	42	100
15	48	100
16	48	100
18	54	112
20	58	112

Havşa Frezesi 90°

HSS DIN 335/C

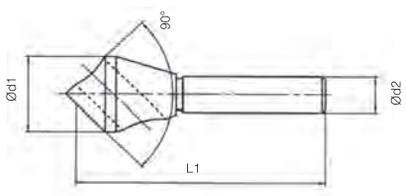




d1 mm	d2 mm	d3 mm	L1 mm	L2 mm
6,3	5.0	1.5	45	5.0
8,3	6.0	2	50	6.0
10,4	6,0	2.5	50	7.1
12,4	8.0	2.8	56	8.0
16,5	10.0	3.2	60	10.0
20,5	10,0	3.5	63	12.5
25,0	10.0	3.8	67	15.0
31,5	12.0	4.2	71	18.0

Delikli Havşa Frezesi 90°



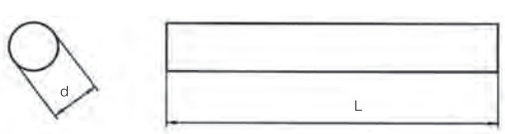


Çalışma Aralığı	d1 mm	d2 mm	L mm
2 - 5	10	6.0	45
5 - 10	14	8.0	48
10 - 15	21	10.0	65
15 - 20	28	12.0	85
20 - 25	35	12.7	102

Pantograf Kalemi

Co. %10 HSS-E





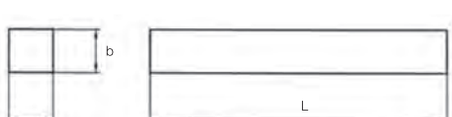
d1 mm	L mm
4	80
4	100
5	80
5	100
6	100
8	100
8	125
10	100

d1 mm	L mm
10	125
12	100
12	125
12	160
14	100
14	125
16	125
20	160

Torna Kalemi

Co. %10 HSS-E





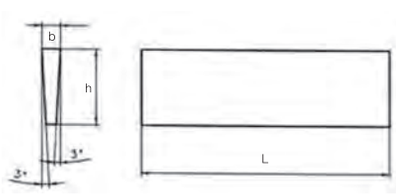
b mm	b mm	L mm
4	4	63
4	4	80
5	5	63
5	5	80
6	6	63
6	6	80
6	6	100
8	8	100
8	8	125
8	8	160
8	8	200
10	10	100
10	10	125

b mm	b mm	L mm
10	10	160
10	10	200
12	12	100
12	12	125
12	12	160
12	12	200
14	14	125
14	14	160
16	16	125
16	16	160
20	20	160
20	20	200

Trapez Torna Kalemi

Co. %10 HSS-E



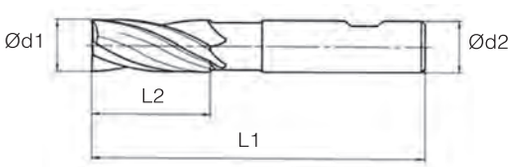


h Inch	b Inch	L Inch
3/8"	3/32"	4"
1/2"	1/8"	6"
5/8"	5/32"	5"
5/8"	5/32"	6"
3/4"	3/16"	6"

h Inch	b Inch	L Inch
7/8"	3/16"	6"
7/8"	3/16"	8"
1"	7/32"	6"
1"	7/32"	8"

Parmak Freze Kısa





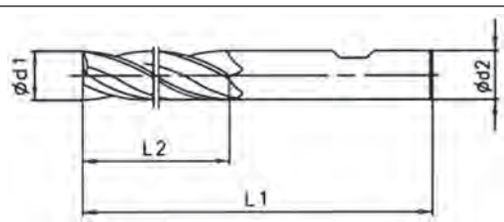
Co. %8 | HSS-E | DIN 844

d1	d2	L1	L2	Z Kanal Sayısı
2	6	51	7	3
2.5 - 3	6	52	8	3
3.5	6	54	10	3
4	6	55	11	4
5 - 6	6	57	13	4
7	10	66	16	4
8 - 9	10	69	19	4
10	10	72	22	4
11	12	79	22	4
12 - 13	12	83	26	4

d1	d2	L1	L2	Z Kanal Sayısı
14 - 15	12	83	26	4
16 - 17	16	92	32	4
18 - 19	16	92	32	4
20 - 22	20	104	38	4 - 5
24	25	104	38	5
25 - 26	25	121	45	5
28 - 30	25	121	45	5
32 - 34	32	133	53	6
36	32	133	53	6
38 - 40	40	155	63	6

Parmak Freze Uzun





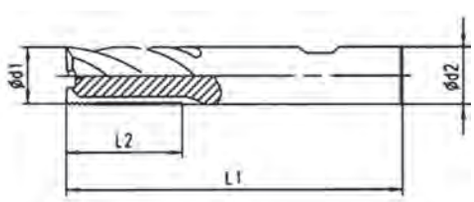
Co. %8 | HSS-E | DIN 844

d1	d2	L1	L2	Z Kanal Sayısı
3	6	56	12	3
4	6	63	19	4
5 - 6	6	68	24	4
8	10	68	38	4
10	10	95	45	4
12 - 14	12	110	53	4
16 - 18	16	123	63	4

d1	d2	L1	L2	Z Kanal Sayısı
20 - 22	20	141	75	4 - 5
24 - 25	25	166	90	5
26 - 28	25	166	90	5
30	25	166	90	5
32 - 34	32	166	106	6
36	32	186	106	6
38 - 40	40	217	125	6

Kabatalaş Parmak Freze Kısa





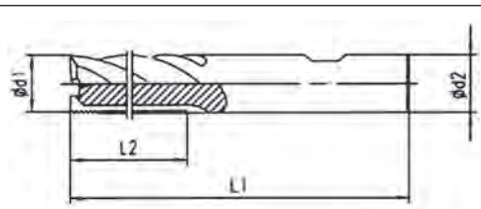
Co. %8 | HSS-E | DIN 844

d1	d2	L1	L2	Z Kanal Sayısı
6.0	6	57	13	4
7.0	10	66	16	4
8.0	10	69	19	4
10.0	10	72	22	4
12.0 - 14.0	12	83	26	4
16.0 - 18.0	16	92	32	4

d1	d2	L1	L2	Z Kanal Sayısı
20.0 - 22.0	20	104	38	4 - 5
24.0	25	104	38	5
25.0 - 26.0	25	121	45	5
28.0 - 30.0	25	121	45	5
32.0	32	133	53	6

Kabatalaş Parmak Freze Uzun



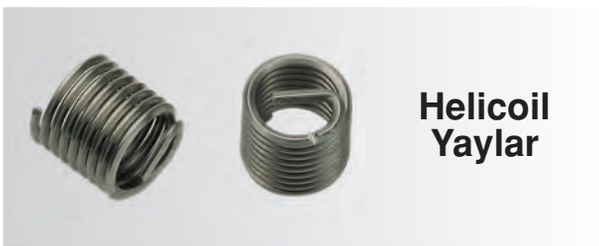


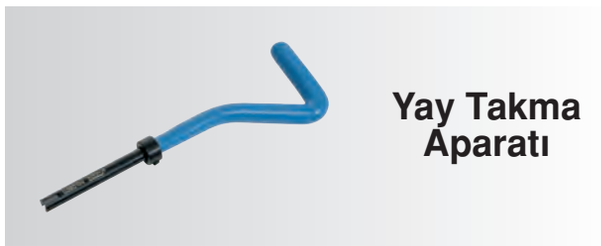
Co. %8 | HSS-E | DIN 844

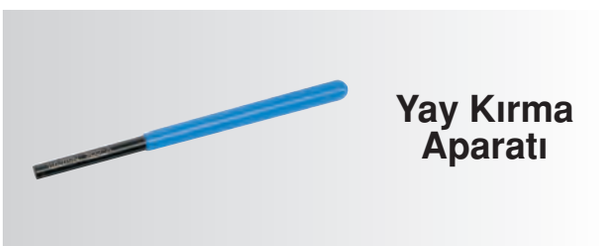
d1	d2	L1	L2	Z Kanal Sayısı
8.0	10	88	38	4
10.0	10	95	45	4
12.0 - 14.0	12	110	53	4
16.0 - 18.0	16	123	63	4
20.0	20	141	75	4

d1	d2	L1	L2	Z Kanal Sayısı
22.0	20	141	75	5
24.0 - 25.0	25	166	90	5
26.0 - 28.0	25	166	90	5
30.0	25	166	90	5
32.0	32	186	106	6

Helicoil Yay ve Ekipmanları


Helicoil Yaylar


Yay Takma Aparatı


Yay Kırma Aparatı


Yay Sökme Aparatı


Helicoil Kılavuzlar


Matkap Uçları


Diş Tamir Takımları

HELİ - COİL Kullanım Alanı

Bozulmuş (yalama olmuş), aşınmış, tahrip olmuş diş yuvalarının orijinal ölçüsünde kolay, sağlam ve garantili olarak tamir Edilmesinde veya kullanım esnasında bozulma ihtimali olan civataların yuvalarının takviye edilmesinde kullanılır.

HELİ – COİL İhtiyacı ve siparişi için verilmesi zorunlu bilgiler.

a) Bozulmuş Civatanın Ölçüsü : M 6, M 10 (metrik) veya UNC 1 /2 (kalın diş) veya UNF 1 /2 parmak (ince diş) gibi.
b) Bozulmuş Civataların Hatvesi : İki diş arasındaki mesafe.
c) İstenen HELİ – COİL in Boyu : Takıldığı yerdeki uzunluk (takıldığı zaman).Örneğin 1 d (çapın 1 katı)1.5 d (çağın 1.5 katı), 2d (çapın 2 katı) gibi.

DİKKAT: HELİ – COİL ‘ ler normal Klavuzlarla

Çekilmiş dişlere takılmaz. HELİ – COİL Kılavuzları özel hatveli ve özel profilli kılavuzlardır, HSS çeliğinden imal edilmişlerdir. El ve makine kılavuzu olarak verilebilir. Sipariş verirken mutlaka HELİ – COİL ‘ in takılacağı malzemeyi veriniz. (Çelik,Alu,prinç,döküm v.s. gibi)

Helicoil Yaylar

M ØD	Paket Ad.	1.0 D	1.5 D	2.0 D	2.5 D	3.0 D
M 2 x 0.4	100	●	●	●	●	●
M 2.2 x 0.45	100	●	●	●	●	●
M 2.5 x 0.45	100	●	●	●	●	●
M 3 x 0.5	100	●	●	●	●	●
M 3.5 x 0.6	100	●	●	●	●	●
M 4 x 0.7	100	●	●	●	●	●
M 5 x 0.8	100	●	●	●	●	●
M 6 x 1.0	100	●	●	●	●	●
M 7 x 1.0	100	●	●	●	●	●
M 8 x 1.25	100	●	●	●	●	●
M 8 x 1.0	100	●	●	●	●	●
M 9 x 1.25	100	●	●	●	●	●
M 10 x 1.25	100	●	●	●	●	●
M 10 x 1.25	100	●	●	●	●	●
M 10 x 1.0	100	●	●	●	●	●
M 11 x 1.5	100	●	●	●	●	●
M 12 x 1.75	100	●	●	●	●	●
M 12 x 1.5	100	●	●	●	●	●
M 12 x 1.25	100	●	●	●	●	●
M 12 x 1.0	100	●	●	●	●	●
M 14 x 2.0	50	●	●	●	●	●
M 14 x 1.5	50	●	●	●	●	●
M 14 x 1.25	50	●	●	●	●	●
M 14 x 1.0	50	●	●	●	●	●
M 16 x 2.0	50	●	●	●	●	●
M 16 x 1.5	50	●	●	●	●	●
M 18 x 2.5	25	●	●	●	●	●
M 18 x 2.0	25	●	●	●	●	●
M 18 x 1.5	25	●	●	●	●	●
M 20 x 2.5	25	●	●	●	●	●
M 20 x 2.0	25	●	●	●	●	●
M 20 x 1.5	25	●	●	●	●	●
M 22 x 2.0	10	●	●	●	●	●
M 22 x 2.0	10	●	●	●	●	●
M 22 x 1.5	10	●	●	●	●	●
M 24 x 3.0	10	●	●	●	●	●
M 24 x 2.0	10	●	●	●	●	●
M 24 x 1.5	10	●	●	●	●	●
M 26 x 1.5	5		●			
M 27 x 3.0	5		●			
M 27 x 2.0	5		●			
M 27 x 1.5	5		●			
M 28 x 1.5	5		●			
M 30 x 3.5	5		●			
M 30 x 2.0	5		●			
M 30 x 1.5	5		●			
M 33 x 3.5	5		●			
M 33 x 2.0	5		●			
M 36 x 4.0	5		●			
M 36 x 3.0	5		●			
M 36 x 2.0	5		●			
M 3 6x 1.5	5		●			

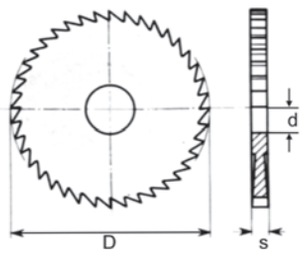


G ØD	Paket Ad.	1.0 D	1.5 D	2.0 D
1/8 x 28	50		●	
1/4 x 19	50		●	
3/8 x 19	50		●	
1/2 x 14	50		●	
5/8 x 14	5		●	
3/4 x 14	5		●	
7/8 x 14	5		●	
1” x 11	5		●	
UNC	**Paket Ad.**	**1.0 D**	**1.5 D**	**2.0 D**
No. 2 x 56	100	●	●	●
No. 4 x 40	100	●	●	●
No. 5 x 40	100	●	●	●
No. 6 x 32	100	●	●	●
No. 8 x 32	100	●	●	●
No. 10 x 24	100	●	●	●
N0. 12 x 24	100	●	●	●
1/4 x 20	100	●	●	●
5/16 x 18	100	●	●	●
3/8 x 16	100	●	●	●
7/16 x 14	100	●	●	●
1/2 x 13	100	●	●	●
9/16 x 12	50	●	●	●
5/8 x 11	50	●	●	●
3/4 x 10	25	●	●	●
7/8 x 9	10	●	●	●
1” x 8	10	●	●	●
1.1/8 x 7	5		●	
1.1/4 x 7	5		●	
1.3/8 x 6	5		●	
1.1/2 x 6	5		●	
UNF	**Paket Ad.**	**1.0 D**	**1.5 D**	**2.0 D**
No. 4 x 48	100	●	●	●
No. 6 x 40	100	●	●	●
No. 8 x 36	100	●	●	●
No. 10 x 32	100	●	●	●
1/4 x 28	100	●	●	●
5/16 x 24	100	●	●	●
3/8 x 24	100	●	●	●
7/16 x 20	100	●	●	●
1/2 x 20	100	●	●	●
9/16 x 18	50	●	●	●
5/8 x 18	50	●	●	●
3/4 x 16	25	●	●	●
7/8 x 14	10	●	●	●
1” x 12	10	●	●	●
1.1/8 x 12	5		●	
1.1/4 x 12	5		●	
1.3/8 x 12	5		●	
1.1/2 x 12	5		●	

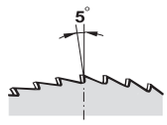
Daire Testereler

HSS | DIN 1837/A









DxS (mm)	d (mm)	Z Diş sayısı
25X0,4	8	48
25X0,6	8	48
25X1,0	8	48
25X1,2	8	48
25X1,5	8	48
25X1,6	8	48
25X2,0	8	48
32X1,0	8	48
32X1,2	8	48
32X1,5	8	48
32X1,6	8	48
32X2,0	8	48
32X4,0	8	32
32X5,0	8	32
40X0,2	10	128/160
40X0,25	10	100/160
40X0,3	10	100/160
40X0,4	10	128/160
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	128/200
50X0,25	13	128/200
50X0,3	10/13	128/160/200
50X0,4	13	100/200
50X0,5	13	100/200
50X0,6	13	100
50X0,7	13	100
50X0,8	13	80
50X0,9	13	80
50X1,0	13	80
50X1,2	13	80

DxS (mm)	d (mm)	Z Diş sayısı
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	10/13/16	128/200
63X0,25	13/16	150/200
63X0,3	10/13/16	128/200
63X0,4	10/13/16	128/200
63X0,5	13/16	128/200
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
63X2,0	16	80
63X2,5	16	64
63X3,0	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

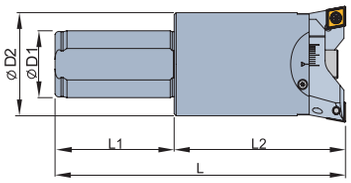
DxS (mm)	d (mm)	Z Diş sayısı
80X3,0	22	80
80X3,5	22	80
80X4,0	22	64
80x5,0	22	64
80x6,0	22	64
100X0,5	22	160
100X0,6	22	160
100X0,7	22	160
100X0,8	22	128
100X0,9	22	128
100X1,0	22	128
100X1,2	22	128
100X1,5	22	128
100X1,6	22	100
100X2,0	22	100
100X2,5	22	100
100X3,0	22	80
100X3,5	22	80
100X4,0	22	80
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
125X1,6	22/27	128
125X2,0	22/27	64/128
125X2,5	22/27	64/100
125X3,0	22/27	100
125X3,5	22/27	100
125X4,0	22/27	100
125X5,0	22/27	80
125X6,0	22/27	80

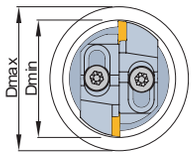
DxS (mm)	d (mm)	Z Diş sayısı
160X1,0	32	160
160X1,2	32	80/100/160
160X1,4	32	80
160X1,6	32	80/100/160
160X2,0	32	128
160X2,5	32	128
160X3,0	32	128
160X3,5	32	64/128
160X4,0	32	64/100
160X5,0	32	100
160X6,0	32	100
200X1,0	32	100/200
200X1,2	32	100/200
200X1,5	32	160/200
200X1,6	32	100/160/200
200X2,0	32	80/160
200X2,5	32	160
200X3,0	32	128
200X3,5	32	128
200X4,0	32	128
200X4,5	32	128
200X5,0	32	128
200X6,0	32	100
250X2,0	32	200
250X2,5	32	160/200
250X3,0	32	160/200
250X4,0	32	160
250X5,0	32	160
275X3,0	32	160
275X4,0	32	160
275X5,0	32	160
300X3,0	32	160
300X4,0	32	160
300X5,0	32	160


TEKNİK
TEKNİK
Ø14-S16-Z22-L100-C20
T15-T3711
TEKNİK
Ø20-D2-025
TEKNİK
Ø32-Z3-L120-C25
DEĞERLİ
DEĞERLİ

Ayarlı Delik Baraları



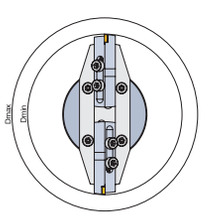


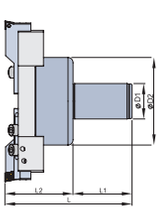


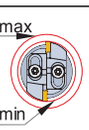
Sipariş Kodu	Ürün Kodu	Ölçüler (mm)						
		Dmin	Dmax	ØD1	ØD2	L	L1	L2
TKB 088	16-20 L100	16	20	16	16	100	50	50
TKB 090	16-20 L150	16	20	16	16	150	50	100
TKB 092	16-20 L200	16	20	16	16	200	50	150
TKB 094	19-23 L100	19	23	16	16	100	50	50
TKB 096	19-23 L150	19	23	16	16	150	50	100
TKB 098	19-23 L200	19	23	16	16	200	50	150
TKB 100	23-28 L100	23	28	20	20	100	50	50
TKB 102	23-28 L150	23	28	20	20	150	50	100
TKB 104	23-28 L230	23	28	20	20	230	50	180
TKB 106	28-38 L105	28	38	20	25	105	50	55
TKB 108	28-38 L155	28	38	20	25	155	50	105
TKB 110	23-38 L230	28	38	20	25	230	50	180
TKB 112	37-48 L120	37	48	25	32	120	55	65
TKB 114	37-48 L170	37	48	25	32	170	55	115
TKB 116	37-48 L255	37	48	25	32	255	55	200
TKB 118	45-56 L126	45	56	32	40	126	60	66
TKB 120	45-56 L176	45	56	32	40	176	60	116
TKB 122	45-56 L260	45	56	32	40	260	60	200
TKB 124	55-75 L145	55	75	32	50	145	60	85
TKB 126	55-75 L195	55	75	32	50	195	60	135
TKB 128	55-75 L280	55	75	32	50	280	60	220
TKB 130	70-90 L145	70	90	32	63	145	60	85
TKB 132	70-90 L195	70	90	32	63	195	60	135
TKB 134	70-90 L280	70	90	40	63	280	60	220
TKB 136	90-130 L175	90	130	32	75	175	60	115
TKB 138	90-130 L225	90	130	32	75	225	60	165

Kollu Hassas Bara Takımları





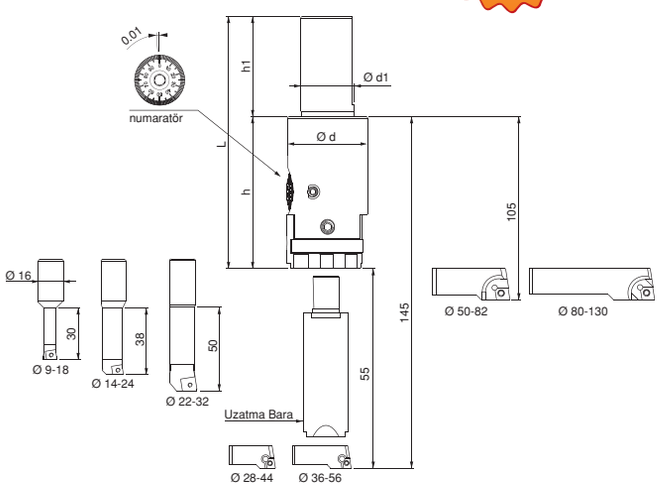


KARTUŞLAR	Dmin-Dmax	KULLANILAN UÇ		SIKMA CİVATASI		SABİTLEME CİVATASI
						
KR 100	23-28	CC	0602	TC060	M2.5	M5x25
KR 102	28-38	CC	09T3	TC070	M3.5	M5x25
KR 104	37-48	CC	09T3	TC070	M3.5	M6x30
KR 106	45-56	CC	09T3	TC070	M3.5	M8x30
KR 108	55-75	CC	09T3	TC070	M3.5	M8x30
KR 110	70-90	CC	09T3	TC070	M3.5	M8x30
KR 112	90-130	CC	09T3	TC070	M3.5	M8x30
KR 114	120-170	CC	09T3	TC070	M3.5	M8x30
KR 120	170-250	CC	09T3	TC070	M3.5	M8x30
KR 122	240-350	CC	09T3	TC070	M3.5	M8x30

Hassas Delik İşleme Aparatı



Not:
Ø 52 den sonra gövdeyle 105 mm uzatma barayla 145 mm derinliğe ulaşır.



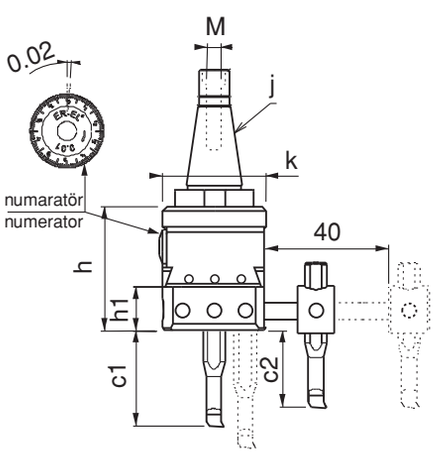
Referans Nr.	d	d1	h	h1	L	(kg)
2385-130	48	32	91	60	151	3.05

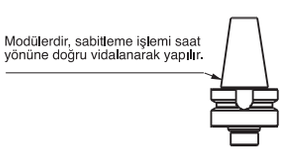
Referans Nr.	Cinsi Type	Uç Tipi Type of Inserts	Devir Rotation	İlerleme Progress	ap
2386-00918	09-18 Bara	CCMT 06	2700 d/dk.	F 75	0.1 - 0.5 mm
2386-01424	14-24 Bara	CCMT 06	2500 d/dk.	F 75	0.1 - 0.5 mm
2386-02232	22-32 Bara	CCMT 09	2000 d/dk.	F 50	0.1 - 1 mm
2386-02844	28-44 Kartuş	CCMT 06	1800 d/dk.	F 60	0.1 - 1 mm
2386-03656	36-56 Kartuş	CCMT 06	1500 d/dk.	F 65	0.1 - 1.5 mm
2386-05082	50-82 Kartuş	CCMT 09	1500 d/dk.	F 70	0.1 - 2 mm
2386-80130	80-130 Kartuş	CCMT 09	360 d/dk.	F 75	2 mm
2386-00055	Uzatma Bara	-	400 d/dk.	F 75	1.5 mm

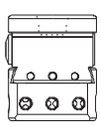
Delik İşleme Aparatı



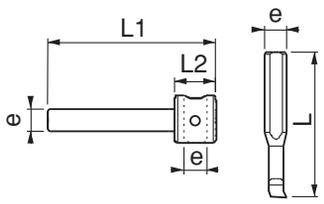
Referans Nr.	J x M	k	h	h1	e	L	L1	L2	(g)
2390-010	ISO30-M12	83	99	35	18	85	128	26	6030
2390-015	ISO40-M16								6555
2390-020	ISO50-M24								9110
2390-025	BT40 -M16								6900
2390-030	BT50 - M24					95			9840
2390-035	SK40- M16								6750
2390-040	SK50- M24								8970
2390-045	MK4 - M16					132			6180
2390-050	MK4 Kamalı								6880
2390-055	MK5 - M20								7785
2390-060	MK5 Kamalı								7450







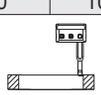


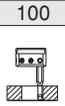




Referans Nr.	L	L1	e	Kesici uç tipi Cutting Edge type	(g)
2395-1	85	-	18	DCMT	112
2395-2	95	-	18	DCMT	130
2395-3	132	-	18	DCMT	200
2395-4	-	128	18	-	360

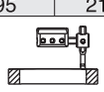
Ø min	Ø max	c1	devir dk. Revolution per minute
18	95	50	400-450
18	95	63	400-450
20	100	100	170-220

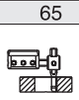




• Ürünün kızağındaki alt deliklerine baraları takarak 18mm'den 100mm çapa kadar büyütme 0-100mm kadar derinliğe inebilir.

Ø min	Ø max	c2	devir dk. Revolution per minute
95	210	55	90-170
95	210	65	90-170

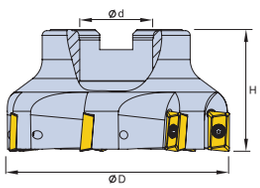




• Ürünün kızağındaki yan deliğe ara vasatı takarak, şekilde görüldüğü gibi 95mm'den - 210mm çapa kadar büyütme, 0-65mm kadar derinliğe inebilir

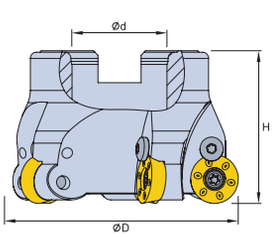
Tarama Başlıkları





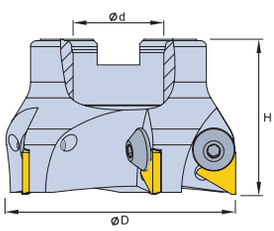
Sipariş Kodu	Ürün Kodu	Ölçüler (mm)				Kullanılan Uç
		ØD	Ød	Z	H	
T176	D040-16 Z05 AP10	40	16	5	40	AP □□ 1003
T177	D050-22 Z06 AP10	50	22	6	40	
T178	D063-22 Z07 AP 10	63	22	7	40	
T179	D080-32 Z08 AP 10	80	32	8	50	
T180	D040-16 Z03 AP16	40	16	3	45	AP □□ 1604
T181	D040-16 Z04 AP16	40	16	4	45	
T182	D050-22 Z04 AP16	50	22	4	45	
T183	D050-22 Z05 AP16	50	22	5	45	
7184	D063-22 Z05 AP16	63	22	5	45	
TJ 85	D063-22 Z06 AP16	63	22	6	45	
7186	D080-32 Z06 AP16	80	32	6	52	
TJ 87	D080-32 Z07 AP16	80	32	7	52	
7188	D100-32 Z07 AP16	100	32	7	52	
7189	D100-32 Z08 AP16	100	32	8	52	
T190	0125-40 Z09 AP16	125	40	9	62	
T192	0160-40 Z10 AP16	160	40	10	62	





Sipariş Kodu	Ürün Kodu	Ölçüler (mm)				Kullanılan Uç
		ØD	Ød	Z	H	
T288	D040-16Z03RD10	40	16	3	40	RD 1003
T289	D040-16Z04RD10	40	16	4	40	
T290	D050-22Z04RD10	50	22	4	40	
T291	D050-22Z05RD10	50	22	5	40	
T292	D063-22Z05RD10	63	22	5	40	
T293	D063-22Z06RD10	63	22	6	40	
T294	D080-32Z06RD10	80	32	6	50	
T294-1	D080-32Z07RD10	80	32	7	50	
T295	D100-32Z07RD10	100	32	7	50	
T295-1	D100-32Z08RD10	100	32	8	50	
T280	D040-16Z03RD12	40	16	3	40	RD 12T3
T281	D040-16Z04RD12	40	16	4	40	
T282	D050-22Z04RD12	50	22	4	40	
T283	D050-22Z05RD12	50	22	5	40	
T284	D063-22Z05RD12	63	22	5	40	
T285	0063-22Z06RD12	63	22	6	40	
T286	DO80-32Z06RD12	80	32	6	50	
7286-1	D080-32Z07RD12	80	32	7	50	
T287	0100-32Z07RD12	100	32	7	50	
7287-1	D100-32Z08RD12	100	32	8	50	
T296	D063-22Z04RD16	63	22	4	45	RD 1605
T297	D080-32 Z05 RD16	80	32	5	50	
T298	D100-32 Z06 RD16	100	32	6	50	

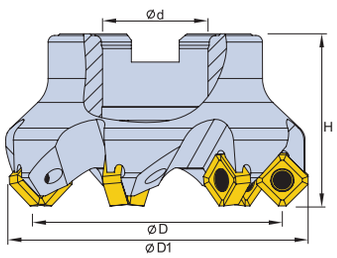




Sipariş Kodu	Ürün Kodu	Ölçüler (mm)					Kullanılan Uç
		ØD	Ød	Z	H	E	
T114	D042-16 Z03 TP16	42	16	3	44	-	TKPN 1603
T116	D050-22 Z03 TP16	50	22	3	44	-	
T118	D063-22 Z03 TP16	63	22	3	44	-	
T120	D063-22 Z04 TP16	63	22	4	44	-	
T122	D080-32 Z05 TP16	80	32	5	52	-	
T124	D100-32 Z06 TP16	100	32	6	52	-	
T126	D063-22 Z03 TP22	63	22	3	50	-	TKPN 2204
T128	D080-32 Z04 TP22	80	32	4	52	-	
T130	D100-32 Z05 TP22	100	32	5	52	-	
T132	D125-40 Z06 TP22	125	40	6	62	-	
T134	D160-40 Z07 TP22	160	40	7	62	66.7	
T136	D200-60 Z08 TP22	200	60	8	62	101.6	
T138	D250-60 Z09 TP22	250	60	9	62	101.6	

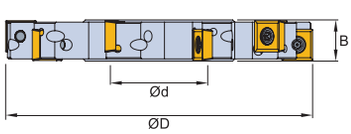
Tarama Başlıkları





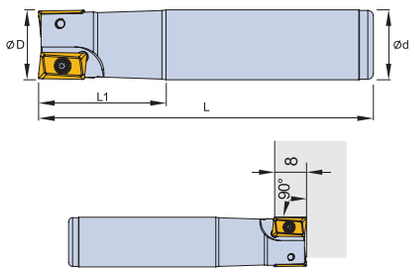
SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ
		ØD	ØD1	Ød	Z	H	
T300	D063-22 Z05 SD12	63	76	22	5	45	
T302	D080-32 Z06 SD12	80	93	32	6	52	
T304	D100-32 Z07 SD12	100	113	32	7	60	SD □□ 1204
T305	D125-40 Z07 SD12	125	138	40	7	62	





SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		ØD	Ød	Z	Ap	A	B	
DF 100	125-Z10-10-SC09	125	40	10	32	10	10.5	
DF 102	125-Z10-12-SC09	125	40	10	32	10	12.5	SCMT 09
DF 104	125-Z10-16-SC12	125	40	10	32	16	16.5	SCMT 12
DF 106	125-Z10-20-SC12	125	40	10	32	20	20.5	
DF 110	160-Z12-12-SC09	160	40	12	50	12	12.5	SCMT 09
DF 112	160-Z12-16-SC12	160	40	12	50	16	16.5	SCMT 12
DF 114	160-Z12-20-SC12	160	40	12	50	20	20.5	

Saplı Tarama Başlıkları

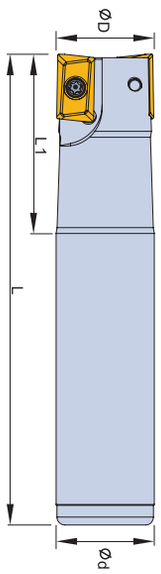




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ
		ØD	Ød	Z	L	L1	
S136	12-01-100-AP10	12	12	1	100	27	
S138	14-01-100-AP10	14	14	1	100	27	
S140	16-02-100-AP10	16	16	2	100	30	
S142	18-02-100-AP10	18	16	2	100	30	
S144	20-03-100-AP10	20	20	3	100	30	
S146	22-03-100-AP10	22	20	3	100	30	
S148	25-03-100-AP10	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	APKT 1003
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	APKT 1003
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	

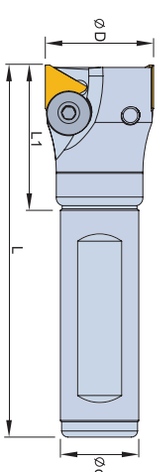
Saplı Tarama Başlıkları





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	

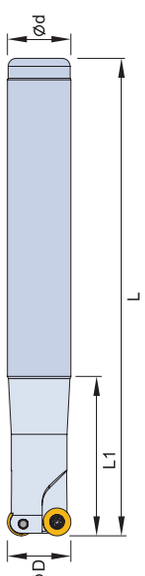




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ
		ØD	Ød	Z	L	L1	
S116	22-02-120-TP11	22	20	2	120	45	 TPKN 1103
S118	25-02-120-TP11	25	25	2	120	45	
S120	28-02-120-TP11	28	25	2	120	45	
S122	30-03-120-TP11	30	25	3	120	45	
S124	32-03-120-TP11	32	25	3	120	45	
S126	35-03-120-TP11	35	25	3	120	45	
S128	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

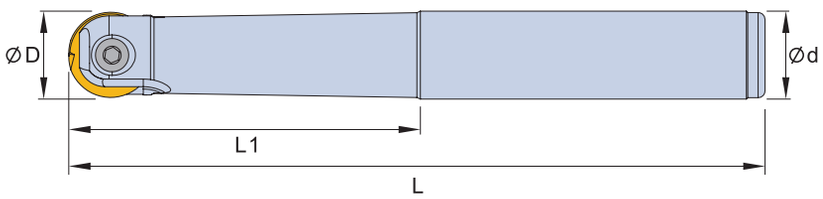




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ
		ØD	Ød	Z	L	L1	
R162	16-02-120-RD08	16	16	2	120	50	RD □□0803
R164	18-02-120-RD08	18	16	2	120	50	
R166	20-03-120-RD08	20	20	3	120	50	
R168	16-02-150-RD08	16	16	2	150	60	
R170	16-02-150-RD08	18	16	2	150	60	
R172	20-03-150-RD08	20	20	3	150	60	
R174	16-02-200-RD08	16	16	2	200	70	
R176	18-08-200-RD08	18	16	2	200	70	
R178	20-03-200-RD08	20	20	3	200	70	
R190	20-02-120-RD10	20	20	2	120	40	RD □□1003
R192	25-03-120-RD10	25	25	3	120	40	
R193	30-03-120-RD10	30	25	3	120	40	
R194	32-03-120-RD10	32	25	3	120	40	
R196	35-03-120-RD10	35	25	3	120	40	
R198	40-03-120-RD10	40	25	3	120	40	
R200	20-02-150-RD10	20	20	2	150	60	
R202	25-03-150-RD10	25	25	3	150	60	
R203	30-03-150-RD10	30	25	3	150	60	
R204	32-03-150-RD10	32	25	3	150	60	
R206	35-03-150-RD10	35	25	3	150	60	
R208	40-03-150-RD10	40	25	3	150	60	
R210	20-02-200-RD10	20	20	2	200	70	
R212	25-03-200-RD10	25	25	3	200	70	
R213	30-03-200-RD10	30	25	3	200	70	
R214	32-03-200-RD10	32	32	3	200	70	
R216	35-03-200-RD10	35	32	3	200	70	
R218	40-03-200-RD10	40	32	3	200	70	
R228	25-02-120-RD12	25	25	2	120	40	RD □□12T3
R229	30-02-120-RD12	30	25	2	120	40	
R230	32-03-120-RD12	32	25	3	120	40	
R232	35-03-120-RD12	35	25	3	120	40	
R234	40-03-120-RD12	40	25	3	120	40	
R236	25-02-150-RD12	25	25	2	150	60	
R237	30-02-150-RD12	30	25	2	150	60	
R238	32-03-150-RD12	32	25	3	150	60	
R240	35-03-150-RD12	35	25	3	150	60	
R242	40-03-150-RD12	40	25	3	150	60	
R244	25-02-200-RD12	25	25	2	200	70	
R245	30-02-200-RD12	30	25	2	200	70	
R246	32-03-200-RD12	32	32	3	200	70	
R248	35-03-200-RD12	35	32	3	200	70	
R250	40-03-200-RD12	40	32	3	200	70	
R251	40-03-250-RD12	40	32	3	250	70	
R252	50-04-250-RD12	50	32	4	250	70	
R254	25-02-300-RD12	25	25	2	300	70	
R255	30-02-300-RD12	30	25	2	300	70	
R256	32-03-300-RD12	32	32	3	300	70	
R258	35-03-300-RD12	35	32	3	300	70	
R259	40-03-300-RD12	40	32	3	300	70	
R260	35-03-350-RD12	35	32	3	350	70	
R261	40-03-350-RD12	40	32	3	350	70	
R270	40-03-300-RD16	40	32	3	300	70	RD □□1604
R272	50-03-300-RD16	50	32	3	300	70	

Küre Saplı Tarama Başlığı

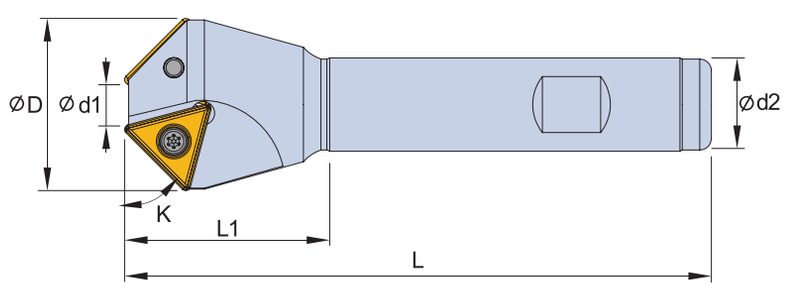




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)				KULLANILAN UÇ
		ØD	Ød	L	L1	
S370	08-10-130	8	10	130	50	P3201 D08
S372	10-12-130	10	12	130	60	P3201 D10
S374	12-12-150	12	12	150	70	P3201 D12
S376	16-16-175	16	16	175	80	P3201 D16
S378	20-20-200	20	20	200	100	P3201 D20
S380	25-25-200	25	25	200	100	P3201 D25
S381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

Açılı Saplı Tarama Başlığı

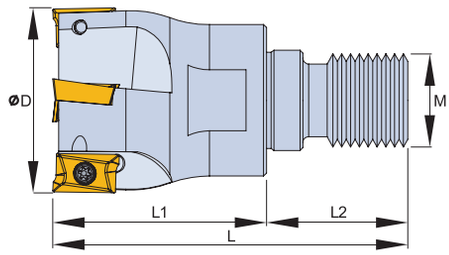




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)							KULLANILAN UÇ
		ØD	Ød1	Ød2	Z	L	L1	K	
S335	02-16-Z2-TC11	16	2	16	2	100	35	30°	TCMT 1102
S334	04-15-Z1-TC11	15	4	16	1	100	35	45°	
S339	10-31-Z2-TC16	31	10	16	2	100	35	30°	TCMT 16T3
S336	10-31-Z2-TC16	31	10	16	2	100	35	45°	
S338	14-35-Z2-TC16	35	14	20	2	100	35	45°	
S340	22-43-Z3-TC16	43	22	25	3	100	35	45°	
S342	32-53-Z3-TC16	53	32	25	3	100	35	45°	
S343	24-39-Z2-TC16	39	24	20	2	100	35	60°	

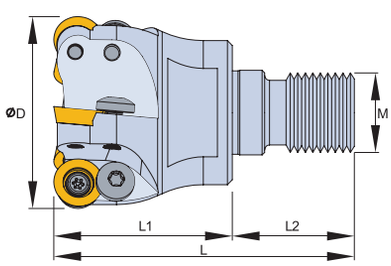
Vida Tarama Başlıkları





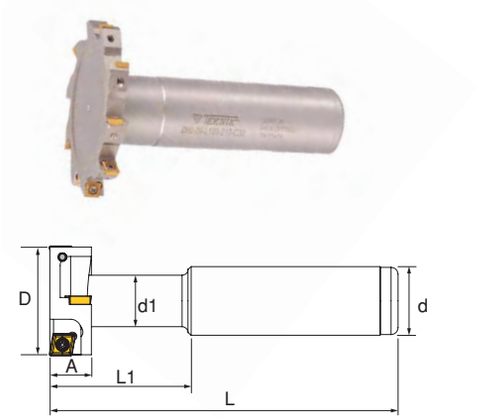
SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		ØD	M	Z	L	L1	L2	
VT 138	20-03-M10-AP10	20	M10	3	55	38	17	 APKT 1003
VT 140	25-03-M12-AP10	25	M12	3	55	33	22	
VT 143	32-04-M16-AP10	32	M16	4	60	36	24	
VT 146	35-04-M16-AP10	35	M16	4	60	36	24	
VT 148	40-05-M16-AP10	40	M16	5	60	36	24	
VT 150	42-05-M16-AP10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



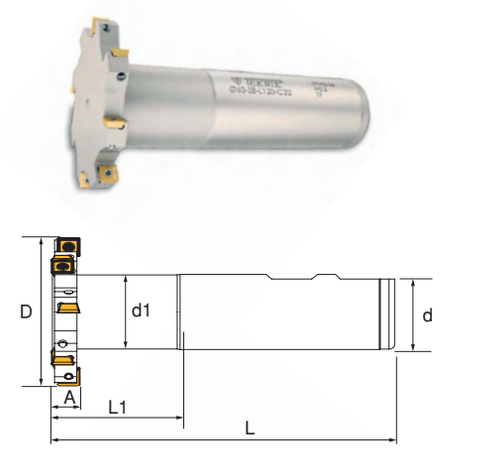


SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		ØD	M	Z	L	L1	L2	
VT 098	20-02-M10-RD10	20	M10	2	55	35	20	 RDMT 1003
VT 100	25-03-M12-RD10	25	M12	3	55	33	22	
VT 103	32-03-M16-RD10	32	M16	3	60	36	24	
VT 106	35-04-M16-RD10	35	M16	4	60	36	24	
VT 108	40-05-M16-RD10	40	M16	5	60	36	24	
VT 110	42-05-M16-RD10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

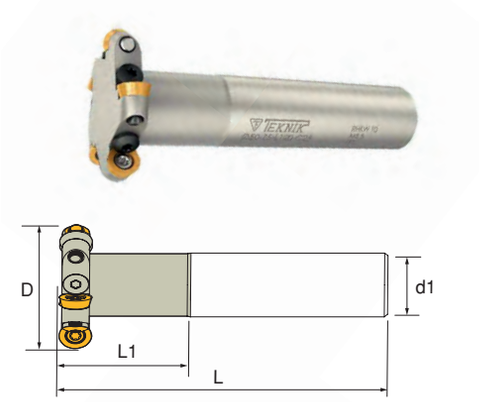
Takma Uçlu T Frezeler



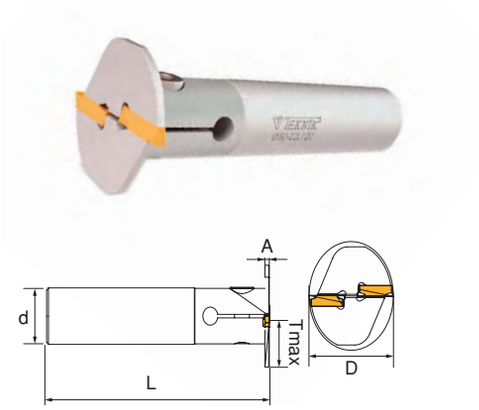
KOD	ÜRÜN AÇIKLAMASI	D	d	d1	Z	A	L	L1	UÇ TİPİ
TKÇ096	T KANAL FREZE	17	16	10	2	8	100	30	CCMT 0602 ISO Standartı
TKÇ098	T KANAL FREZE	21	20	11	2	9	100	30	
TKÇ100	T KANAL FREZE	25	20	15	4	11	100	30	
TKÇ102	T KANAL FREZE	32	20	15	4	12	100	40	
TKÇ104	T KANAL FREZE	35	25	14	4	15	100	50	CCMT 09T3 ISO Standartı
TKÇ106	T KANAL FREZE	40	25	20	4	17	110	50	
TKÇ108	T KANAL FREZE	50	32	26	4	20	110	50	CCMT 1204
TKÇ120	T KANAL FREZE	63	32	20	8	9	125	37	CCMT 0602 ISO Standartı
TKÇ122	T KANAL FREZE	80	32	32	10	9	120	-	



TKÇ050	T KANAL FREZE	50	32	31.5	7	5	120	45	SPMG 0502 TGTC uca Uyumludur
TKÇ052	T KANAL FREZE	63	32	31.5	8	5	120	45	
TKÇ054	T KANAL FREZE	50	32	31.5	7	6	120	45	SPMG 0602 TGTC uca Uyumludur
TKÇ056	T KANAL FREZE	63	32	31.5	8	6	120	45	
TKÇ058	T KANAL FREZE	80	32	31.5	10	6	120	45	
TKÇ060	T KANAL FREZE	50	32	31.5	6	8	120	45	
TKÇ062	T KANAL FREZE	63	32	31.5	8	8	120	45	
TKÇ064	T KANAL FREZE	80	32	31.5	10	8	120	45	
TKÇ066	T KANAL FREZE	50	32	31.5	6	10	120	45	SPMG 07T3 TGTC uca Uyumludur
TKÇ068	T KANAL FREZE	63	32	31.5	8	10	120	45	
TKÇ070	T KANAL FREZE	80	32	31.5	10	10	120	45	



KOD	ÜRÜN AÇIKLAMASI	D	Z	L	d	L1	UÇ TİPİ
TKÇ200	T KANAL FREZE	40	4	100	20	40	RHKW 1003 INGRSLuca Uyumludur
TKÇ202	T KANAL FREZE	50	5	120	25	40	

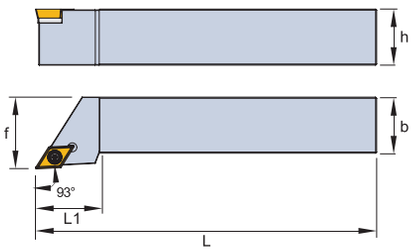


KOD	ÜRÜN AÇIKLAMASI	D	A	Z	L	d	Tmax	UÇ TİPİ
TKÇ300	T KANAL FREZE	50	3	2	120	25	12.5	MGM 3C KRLY uca Uyumludur
TKÇ301	T KANAL FREZE	63	3	2	120	25	19	
TKÇ302	T KANAL FREZE	80	3	2	120	32	24	
TKÇ303	T KANAL FREZE	50	4	2	120	25	12	MGM 4C KRLY uca Uyumludur
TKÇ304	T KANAL FREZE	63	4	2	120	25	19	
TKÇ305	T KANAL FREZE	80	4	2	120	32	24	
TKÇ306	T KANAL FREZE	50	5	2	120	25	15	MGM 5C KRLY uca Uyumludur
TKÇ307	T KANAL FREZE	63	5	2	120	25	19	
TKÇ308	T KANAL FREZE	80	5	2	120	32	24	

Dış Paso Torna Katerleri

93° SDJCR - SDJCL

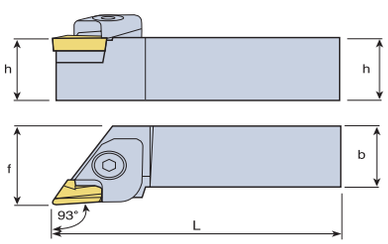




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ	ALTLIK
		L	L1	h	f	b		
D220	SDJCR 1010 J07	110	12	10	10	10	 DC □□ 0702	 -----
D222	SDJCR 1212 J11	110	18	12	12	12		-----
D224	SDJCR 1616 H11	100	24	16	20	16	DCMT 11T3	TA 030
D226	SDJCR 2020 K11	125	24	20	25	20		
D228	SDJCR 2525 M11	150	30	25	32	25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



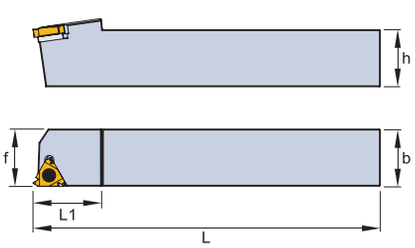


ÜRÜN KODU	ÖLÇÜLER (mm)				KULLANILAN UÇ	ALTLIK
	h	b	L	f		
CKJNR/L 2020 K 16	20	20	125	25	 KNUX 16 04..	 AKS-16-R AKS-16-L
2525 M16	25	25	150	32		
3232 P 16	32	32	170	40		
4040 S 16	40	40	250	50		

Dış Çap Diş Katerleri

R-L



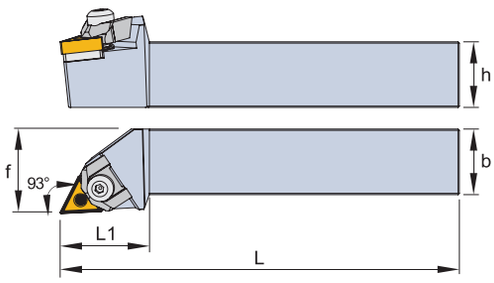


SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ	ALTLIK
		L	L1	h	f	b		
D261	AL 12-3	110	20	12	12	12	 16 ER	 TA
D259	AL 16-3	100	22	16	16	16	22 ER	044
D258	AL 20-3	125	25	20	20	20	16 ER	-----
D260	AL 25-3	150	30	25	25	25		TA 044
D266	AL 25-4	150	36	25	25	25		
D262	AL 32-3	170	30	32	32	32		
D268	AL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

Dış Paso Torna Katerleri

93° DDJNR - DDJNL

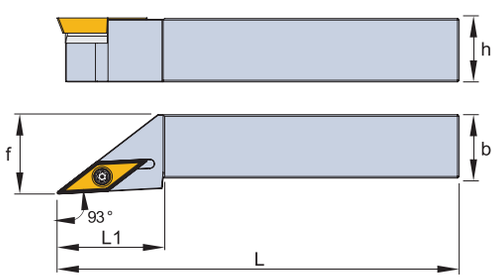




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ	ALTLIK	BASKI
		L	L1	h	f	b			
D167	DDJNR 2020 K11	125	35	20	25	20			
D168	DDJNR 2525 M11	150	35	25	32	25			
D170	DDJNR 2020 K15	125	38	20	25	20	DN □□ 1104	TA 030	BK 021
D172	DDJNR 2525 M15	150	38	25	32	25			
D174	DDJNR 3232 P15	170	38	32	40	32	DN □□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

93° SVJBR - SVJBL

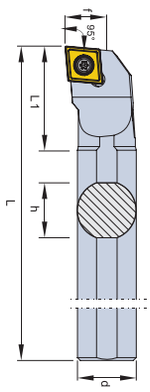




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)					KULLANILAN UÇ	ALTLIK
		L	L1	h	f	b		
D230	SVJBR 1010 J11	110	21	10	10	10		
D232	SVJBR 1212 J11	110	21	12	12	12		
D234	SVJBR 1616 H11	110	21	16	16	16	VB □□ 1103	-----
D235	SVJBR 1616 H16	100	27	16	20	16		
D236	SVJBR 2020 K16	125	33	20	25	20	VBMT 1604	TA 034
D238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

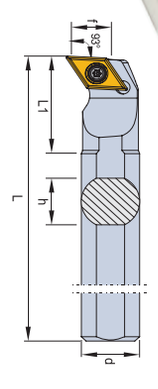
İç Paso Torna Katerleri





SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		Dmin	d	L	L1	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	CC □□ 0602
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	CC □□ 09T3
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	

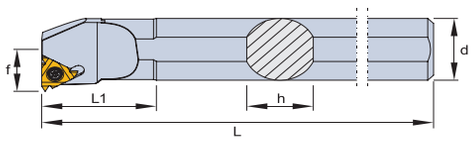




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		Dmin	d	L	L1	f	h	
K120	S10J SDUCR 07	14	10	110	20	7	9	
K122	S12K SDUCR 07	17	12	125	24	9	11	
K124	S14-16Q SDUCR 07	20	16	180	40	10.5	15	
K126	S16Q SDUCR 07	21	16	180	27	11	15	
K125	S14-16Q SDUCR 11	20	16	180	45	10.5	15	
K128	S16Q SDUCR 11	21	16	180	30	11	15	
K130	S20Q SDUCR 11	25	20	180	32	13	18	DC □□ 0702
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	DC □□ 11T3
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	

İç Dış Torna Katerleri

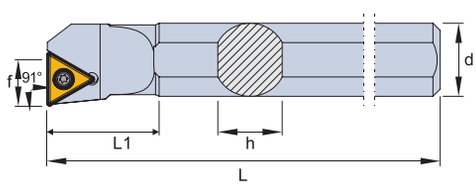




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		Dmin	d	L	L1	f	h	
K348	S10J STIR 11	12	10	110	20	6	7	
K350	S12K STIR 11	14	12	125	24	7.2	11	
K352	S16Q STIR 16	20	16	180	40	11	15	
K354	S20Q STIR 16	24	20	180	40	13	18	
K356	S25R STIR 16	29	25	200	40	16	23	11 IR
K358	S32T STIR 16	36	32	300	40	19.5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

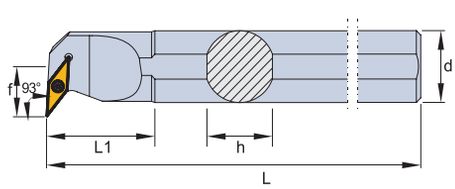
İç Çap Paso Katerleri





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

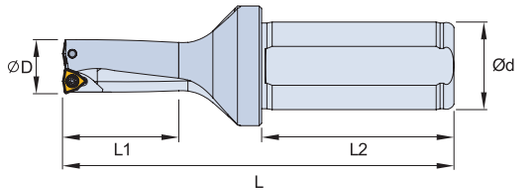




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		Dmin	d	L	L1	f	h	
K206	S16Q SVUBR 11	21	16	180	30	11	15	
K207	S20Q SVUBR 11	25	20	180	30	13	18	
K208	S25R SVUBR 16	32	25	200	40	17	23	VBMT 1103
K209	S32T SVUBR 16	40	32	300	50	22	30	VBMT 1604
K210	S40T SVUBR 16	49	40	300	55	27	38	

Udrill Matkap

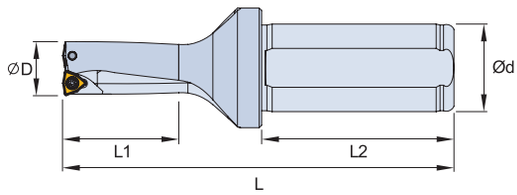




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		D	d	d1	L	L1	L2	
U104	D2 16 WCMX 03	16	25	34	115	32	55	 WCMX 0302
U105	D2 17 WCMX 03	17	25	34	118	34	55	
U106	D2 18 WCMX 03	18	25	34	120	36	55	
U107	D2 19 WCMX 03	19	25	34	123	38	55	
U108	D2 20 WCMX 04	20	25	34	125	40	55	WCMX 0402
U110	D2 21 WCMX 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	

Udrill Matkap

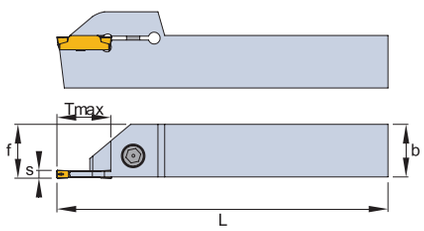




SİPARİŞ KODU	ÜRÜN KODU	ÖLÇÜLER (mm)						KULLANILAN UÇ
		D	d	d1	L	L1	L2	
U182	D3 38 WCMX 06	38	32	44	214	114	58	 WCMX 06T3
U183	D3 39 WCMX 06	39	32	44	217	117	58	
U184	D3 40 WCMX 06	40	32	44	220	120	58	
U186	D3 41 WCMX 06	41	32	49	220	123	58	
U188	D3 42 WCMX 06	42	32	49	220	126	58	
U190	D3 43 WCMX 06	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	 WCMX 0804
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

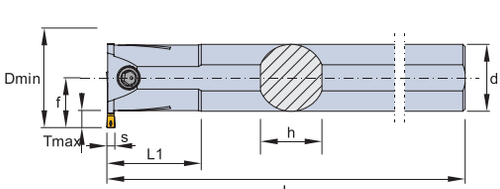




KOD	ÜRÜN AÇIKLAMASI		UÇ TİPİ
D658	12x12 2C	Tmax=16mm	MGM 200 KRLY uca Uyumludur
D660	16x16 2C	Tmax=16mm	
D662	20x20 2C	Tmax=16mm	
D664	25x25 2C	Tmax=16mm	
D666	32x32 2C	Tmax=16mm	
D667	12x12 3C	Tmax=18mm	MGM 300 KRLY uca Uyumludur
D668	16x16 3C	Tmax=18mm	
D670	20x20 3C	Tmax=18mm	
D672	25x25 3C	Tmax=18mm	
D674	32x32 3C	Tmax=18mm	
D675	16x16 4C	Tmax=18mm	MGM 400 KRLY uca Uyumludur
D676	20x20 4C	Tmax=18mm	
D678	25x25 4C	Tmax=18mm	
D680	32x32 4C	Tmax=18mm	
D682	20x20 5C	Tmax=24mm	MGM 500 KRLY uca Uyumludur
D684	25x25 5C	Tmax=24mm	
D686	32x32 5C	Tmax=24mm	
D687	25x25 6C	Tmax=24mm	MGM 600 KRLY
D960	25x25 3C	Tmax=25mm	MGM 300 KRLY uca Uyumludur
D963	25x25 3C	Tmax=40mm	
D961	25x25 4C	Tmax=25mm	MGM 400 KRLY uca Uyumludur
D964	25x25 4C	Tmax=40mm	
D962	25x25 5C	Tmax=40mm	MGM 500 KRLY

İç Çap Katerleri





K 600	S16Q 2C	Tmax=4.9mm	MGM 2mm KRLY uca Uyumludur
K 602	S20Q 2C	Tmax=5.7mm	
K 603	S25R 2C	Tmax=5.7mm	
K 604	S20Q 3C	Tmax=6.0mm	MGM 3mm KRLY uca Uyumludur
K 606	S25R 3C	Tmax=6.7mm	
K 608	S32S 3C	Tmax=6.7mm	
K 609	S40T 3C	Tmax=7.4mm	
K 610	S20Q 4C	Tmax=6.0mm	MGM 4mm KRLY uca Uyumludur
K 612	S25R 4C	Tmax=6.0mm	
K 614	S32S 4C	Tmax=6.0mm	
K 616	S40T 4C	Tmax=7.4mm	
K 618	S25R 5C	Tmax=7.0mm	MGM 5mm KRLY uca Uyumludur
K 620	S32S 5C	Tmax=7.0mm	
K 622	S40T 5C	Tmax=7.4mm	

Tork Civataları



TC 090
M1.6
T6



TC 051
M1.8
T6 / 54 Ncm



TC 058
M2
T6 / 65 Ncm



TC 059
M2.2x5
T7 / 85 Ncm



TC 060
M2.2x5.5
T8 / 130 Ncm



TC 063
M2.5x7
T8 / 135 Ncm



TC 065
M3x7
T8 / 235 Ncm



TC 066
M3x10
T8 / 240 Ncm



TC 068
M3.5x6
T15 / 140 Ncm



TC 070
M3.5x8.5
T15 / 350 Ncm



TC 072
M3.5x11
T15 / 355 Ncm



TC 074
M4x10 (K.BAŞLI)
T15 / 500 Ncm



TC 075
M4x10 (K.BAŞLI)
T15 / 500 Ncm



TC 078
M4x11 (B.BAŞLI)
T15 / 520Ncm



TC 080
M4.5x11
T15 / 760 Ncm



TC 083
M5x12
T20 / 1050 Ncm

Altlıklar



TA 010
TPKN 16



TA 012
TPKN 22



TA 014
DNMG 15



TA 015
CCMT 09



TA 016
CNMG 12



TA 017
CNMG 19



TA 018
TNMG 16



TA 019
MTJNR



TA 020
WNMG 08



TA 021
WNMG 06



TA 022
CNMG 16



TA 030
DCMT 11



TA 032
VCMT 16



TA 034
VBMT 16



TA 040
16'LIK IR-ER



TA 045
MTJNR 22



TA 050
SNMG 12



TA 046
KNUX 16 (SAĞ)



TA 048
KNUX 16 (SOL)

Baskı Kepleri



BK 018
CNMG 19



BK 020
D TİPİ



BK 021
CNMG 16



BK 022
MTJNR 16



BK 023
MTJNR 22

BK 024
D TİPİ (KÜÇÜK)

BK 026
MWLNR 08

BK 028
KNUX (SAĞ)

BK 030
KNUX (SOL)

BK 031
KNUX (SAĞ)

BK 032
KNUX (SOL)

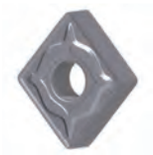
BK 036
TPKN 16

BK 038
TPKN 22

Elmas Uçlar



Kod
CCMT 060204 NN
CCMT 09T304 NN
CCMT 09T308 NN
CCMT 120404 NN
CCMT 120408 NN
CCMT 120412 NN



Kod
CNMG 120404 NN
CNMG 120408 NX
CNMG 120408 NN
CNMG 120408 NM
CNMG 120412 NN



Kod
CNMM 120412 NR



Kod
CPMT 060204 NN
CPMT 060208 NN
CPMT 09T304 NN
CPMT 09T308 NN



Kod
DCMT 070204 NN
DCMT 11T304 NN
DCMT 11T308 NN



Kod
DNMG 110404 NN
DNMG 110408 NN
DNMG 150404 NN
DNMG 150408 NX
DNMG 150408 NN
DNMG 150412 NN
DNMG 150604 NN
DNMG 150608 NX
DNMG 150608 NN
DNMG 150612 NN



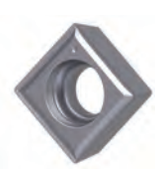
Kod
DNUX 150608 R11



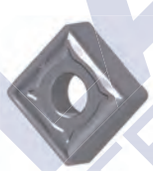
Kod
KNUX 160405 L
KNUX 160405 R



Kod
RCMT 0602 M0
RCMT 0803 M0
RCMT 10T3 M0
RCMT 1204 M0



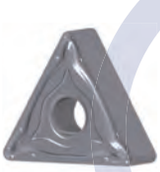
Kod
SCMT 09T304 NN
SCMT 09T308 NN



Kod
SNMG 120408 NX
SNMG 120408 NN
SNMG 120412 NN



Kod
TCMT 110204 NN
TCMT 110208 NN
TCMT 16T304 NN
TCMT 16T308 NN
TCMT 16T312 NN



Kod
TNMG 160404 NN
TNMG 160408 NX
TNMG 160408 NN
TNMG 160412 NN
TNMG 220404 NN
TNMG 220408 NX
TNMG 220408 NN
TNMG 220412 NN



Kod
TNMP 160408 NN



Kod
TNUX 160404 L
TNUX 160404 R
TNUX 160408 L
TNUX 160408 R



Kod
TPMR 160304 NN
TPMR 160308 NN



Kod
VBMT 110304 NN
VBMT 160404 NN
VBMT 160408 NN



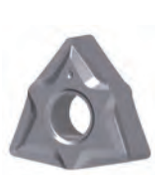
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VCMT 160404 NN
VCMT 160408 NN



Kod
VNMG 160404 NN
VNMG 160408 NN



Kod
WNMG 060404 NN
WNMG 060408 NX
WNMG 060408 NN
WNMG 080404 NN
WNMG 080408 NX
WNMG 080408 NN
WNMG 080408 NM
WNMG 080412 NN



Kod
WNMP 060404 NN
WNMP 060408 NN
WNMP 080408 NN

Alüminyum Elmas Uçlar



Kod
CCGT 060204 ALU
CCGT 09T304 ALU



Kod
CNGG 09T304 ALU
CNGG 120404 ALU
CNGG 120408 ALU



Kod
DCGT 11T304 ALU



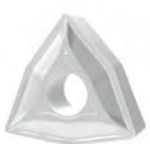
Kod
DNGG 110404 ALU
DNGG 110408 ALU



Kod
TNGG 160404 ALU

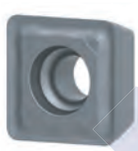


Kod
VNGG 160404 ALU
VNGG 160404 ALU

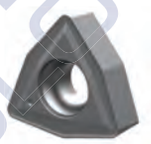


Kod
WNGG 060404 ALU
WNGG 080404 ALU

Udril Uçları

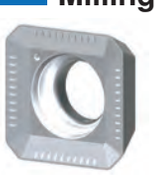


Kod
SPMG 050204 NN
SPMG 060204 NN
SPMG 07T308 NN
SPMG 090408 NN
SPMG 110408 NN

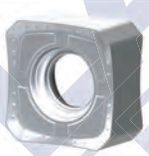


Kod
WCMX 040208 NN
WCMX 050308 NN
WCMX 06T308 NN
WCMX 080412 NN

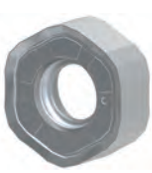
Milling



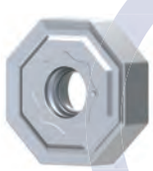
Kod
SEKT 1204 AFTN
SEKT 12T3 AGSN



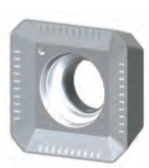
Kod
SNKX 1205-45
SNKX 1607-45



Kod
HNKX 0604-45*



Kod
ONKX 0806-45



Kod
SDKT 1204 AETN



Kod
SPKN 1203 EDTR
SPKN 1204 EDTR
SPKN 1504 EDTR



Kod
SEKN 1203 AFTN
SEKN 1204 AFTN
SEKN 1504 AFTN



Kod
ODMT 0504 ZZTR
ODMT 060508 TN



Kod
ODMW 060508 TN



Kod
RDMT 0602 M0
RDMT 0702 M0
RDMT 0803 M0
RDMT 1003 M0
RDMT 10T3 M0
RDMT 1204 M0
RDMT 12T3 M0
RDMT 1604 M0

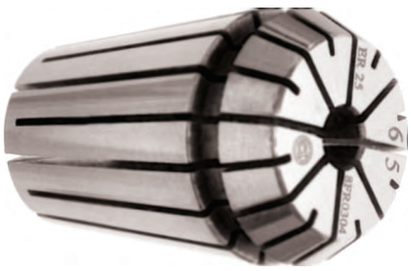


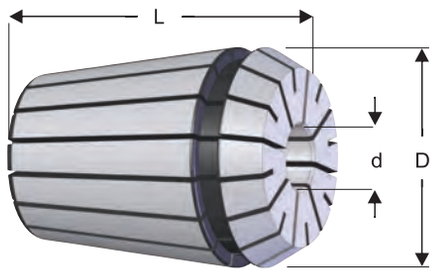
Kod
APKT 060204 PDTR
APKT 100308 PDTR
APKT 160408 PDTR



Kod
TPKN 1603 PDTR
TPKN 2204 PDTR

Pens Grubu

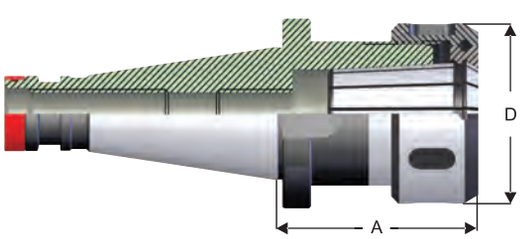




ÜRÜN KODU	Kapasite (d)					D	L
ER - 11	1 mm	2 mm	3 mm	4 mm	5mm	12	18
	6 mm	7 mm					
ER - 16	2 mm	3 - 2 mm	4 - 3 mm	5 - 4 mm	6 - 5 mm	17	27,5
	7 - 6 mm	8 - 7 mm	9 - 8 mm	10 - 9 mm			
ER - 20	2 mm	3 - 2 mm	4 - 3 mm	5 - 4 mm	6 - 5 mm	21	31,5
	7 - 6 mm	8 - 7 mm	9 - 8 mm	10 - 9 mm	11 - 10 mm		
	12 - 11 mm	13 - 12 mm	-	-	-		
ER - 25	2 mm	3 - 2 mm	4 - 3 mm	5 - 4 mm	6 - 5 mm	26	34
	7 - 6 mm	8 - 7 mm	9 - 8 mm	10 - 9 mm	11 - 10 mm		
	12 - 11 mm	13 - 12 mm	14 - 13 mm	15 - 14 mm	16 - 15 mm		
ER - 32	2 mm	3 - 2 mm	4 - 3 mm	5 - 4 mm	6 - 5 mm	33	40
	7 - 6 mm	8 - 7 mm	9 - 8 mm	10 - 9 mm	11 - 10 mm		
	12 - 11 mm	13 - 12 mm	14 - 13 mm	15 - 14 mm	16 - 15 mm		
	17 - 16 mm	18 - 17 mm	19 - 18 mm	20 - 19 mm	-		
ER - 40	4 - 3 mm	5 - 4 mm	6 - 5 mm	7 - 6 mm	8 - 7 mm	41	46
	9 - 8 mm	10 - 9 mm	11 - 10 mm	12 - 11 mm	14 - 13 mm		
	16 - 15 mm	18 - 17 mm	20 - 19 mm	22 -21 mm	24 - 23 mm		
	26 - 25 mm	-	-	-	-		
462E	4-3,5mm	5-4,5mm	6-55mm	8-75mm	9-8,5mm	35,05	52
	10 - 9,5 mm	11 - 10,5 mm	12 - 11,5 mm	14 - 13,5 mm	16 - 15,5 mm		
	18 - 17,5 mm	20 - 19,5 mm	22 - 21,5 mm	24 - 23,5 mm	24 - 23 mm		
	25 - 24,5 mm	-	-	-	-		
467E	5 - 4,5 mm	6 - 5,5 mm	7 - 6,5 mm	8 - 7,5 mm	9 - 8,5 mm	43,7	60
	10 - 9,5 mm	11 - 10,5 mm	12 - 11,5 mm	14 - 13,5 mm	16 - 15,5 mm		
	18 - 17,5 mm	20 - 19,5 mm	22 - 21,5 mm	24 - 23,5 mm	25 - 24,5 mm		
	28 - 27,5 mm	30 - 29,5mm	32 - 31,5 mm	-	-		

ISO Pens Başlığı

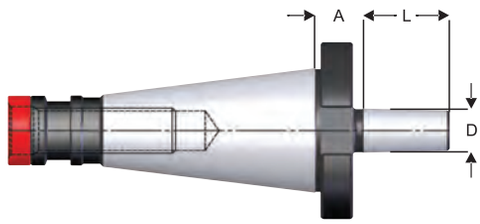




Ürün Kodu	Ürün Adı	Kapasite	D	A
210462	ISO 30 / 462 Pens Başlığı	2.....25 mm	60	80
211462	ISO 40 / 462 Pens Başlığı	2.....25 mm	60	66
211467	ISO 40 / 467 Pens Başlığı	3.....32 mm	72	95
215462	ISO 50 / 462 Pens Başlığı	2.....25 mm	60	71
215467	ISO 50 / 467 Pens Başlığı	3.....32mm	72	73
210430	ISO 30 / ER 25 / 430 Pens Başlığı	2.....16 mm	42	50
210470	ISO 30 / ER 32 / 470 Pens Başlığı	2.....20 mm	50	50
210472	ISO 30 / ER 40/ 472 Pens Başlığı	2.....26 mm	63	65
211430	ISO 40 / ER 25 / 430 Pens Başlığı	2.....16 mm	42	50
211470	ISO 40 / ER 32 / 470 Pens Başlığı	2.....20 mm	50	50
211472	ISO 40 / ER 40/ 472 Pens Başlığı	2.....26 mm	63	80
215470	ISO 50 / ER 32 / 470 Pens Başlığı	2.....20 mm	50	63
215472	ISO 50 / ER 40/ 472 Pens Başlığı	2.....26 mm	63	63

ISO Mandren Adaptörü

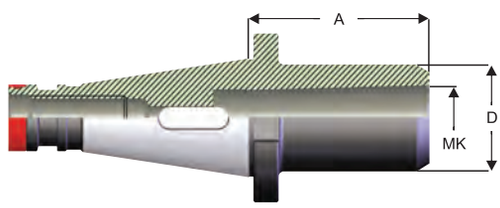




Ürün Kodu	Ürün Adı	D	A	L
273012	ISO 30 Mandren Adaptörü	B12	13,5	18,5
273016	ISO 30 Mandren Adaptörü	B16	15,5	24
274012	ISO 40 Mandren Adaptörü	B12	15	18,5
274016	ISO 40 Mandren Adaptörü	B16	17	24
274018	ISO 40 Mandren Adaptörü	B18	17	32
275016	ISO 50 Mandren Adaptörü	B16	20	24
275018	ISO 50 Mandren Adaptörü	B18	20	32

ISO Kamalı Pens Adaptörü





Ürün Kodu	Ürün Adı	Kapasite	A	D
253001	ISO 30 Kamalı Mors Adaptörü	1	50	25
253002	ISO 30 Kamalı Mors Adaptörü	2	50	32
253003	ISO 30 Kamalı Mors Adaptörü	3	75	40
254001	ISO 40 Kamalı Mors Adaptörü	1	50	25
254002	ISO 40 Kamalı Mors Adaptörü	2	50	32
254003	ISO 40 Kamalı Mors Adaptörü	3	65	40
254004	ISO 40 Kamalı Mors Adaptörü	4	95	48
255001	ISO 50 Kamalı Mors Adaptörü	1	45	25
255002	ISO 50 Kamalı Mors Adaptörü	2	60	32
255003	ISO 50 Kamalı Mors Adaptörü	3	65	40
255004	ISO50 Kamalı Mors Adaptörü	4	70	48
255005	ISO 50 Kamalı Mors Adaptörü	5	105	63

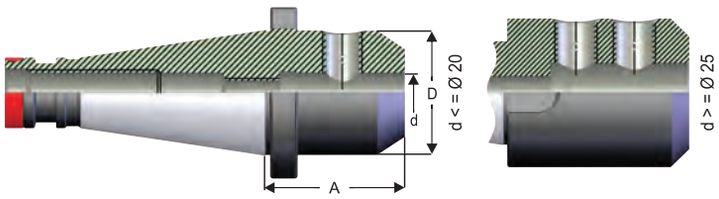
ISO Pens Takımları



Ürün Kodu	Ürün Adı	Kapasite	Pens Adedi
293462	ISO 30 / 462 Pens Takımı	4....25 mm	16
294462	ISO 40 / 462 Pens Takımı	4....25 mm	16
294467	ISO 40 / 467 Pens Takımı	5....32 mm	16
295462	ISO 50 / 462 Pens Takımı	4....25 mm	16
295467	ISO 50 / 467 Pens Takımı	5....32 mm	16
293430	ISO 30 / ER 25 / 430 Pens Takımı	3....16 mm	14
293470	ISO 30 / ER 32 / 470 Pens Takımı	3....20 mm	14
293472	ISO 30 / ER 40 / 472 Pens Takımı	4....26 mm	16
294430	ISO 40 / ER 25 / 430 Pens Takımı	3....16 mm	14
294470	ISO 40 / ER 32 / 470 Pens Takımı	3....20 mm	14
294472	ISO 40 / ER 40/ 472 Pens Takımı	4....26 mm	16
295470	ISO 50 / ER 32 / 470 Pens Takımı	3....20 mm	14
295472	ISO 50/ ER 40/ 472 Pens Takımı	4....26 mm	16

ISO Veldon Tutucu

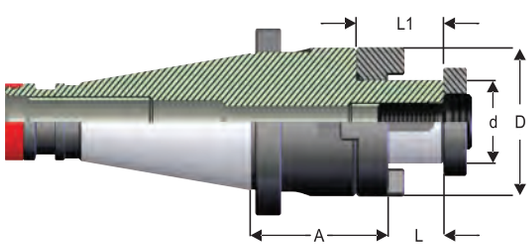




Ürün Kodu	Ürün Adı	d	D	A
244006	ISO 40 WELDON	6	25	50
244008	ISO 40 WELDON	8	28	50
244010	ISO 40 WELDON	10	35	50
244012	ISO 40 WELDON	12	42	50
244014	ISO 40 WELDON	14	44	50
244016	ISO 40 WELDON	16	48	63
244018	ISO 40 WELDON	18	50	63
244020	ISO 40 WELDON	20	52	63
244025	ISO 40 WELDON	25	63	80
244032	ISO 40 WELDON	32	72	80
244040	ISO 40 WELDON	40	79	90
245006	ISO 50 WELDON	6	25	63
245008	ISO 50 WELDON	8	28	63
245010	ISO 50 WELDON	10	35	63
245012	ISO 50 WELDON	12	42	63
245014	ISO 50 WELDON	14	44	63
245016	ISO 50 WELDON	16	48	63
245018	ISO 50 WELDON	18	50	63
245020	ISO 50 WELDON	20	52	63
245025	ISO 50 WELDON	25	65	80
245032	ISO 50 WELDON	32	72	80
245040	ISO 50 WELDON	40	80	90

ISO Kombine Tarama Başlığı

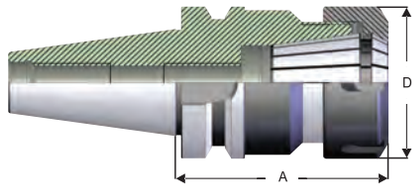




Ürün Kodu	Ürün Adı	d	D	A	L	L1
223016	ISO 30 / K.T.B. 16	16	32	35	17	27
223022	ISO 30/ K.T.B. 22	22	40	35	19	31
223027	ISO 30 / K.T.B. 27	27	48	35	21	33
223032	ISO 30 / K.T.B. 32	32	58	50	24	38
224016	ISO 40/ K.T.B. 16	16	32	52	17	27
224022	ISO 40 / K.T.B. 22	22	40	52	19	31
224027	ISO 40 / K.T.B. 27	27	48	52	21	33
224032	ISO 40 / K.T.B. 32	32	58	52	24	38
224040	ISO 40 / K.T.B. 40	40	70	52	27	41
225016	ISO 50 / K.T.B. 16	16	32	55	17	27
225022	ISO 50 / K.T.B. 22	22	40	55	19	31
225027	ISO 50 / K.T.B. 27	27	48	55	21	33
225032	ISO 50 / K.T.B. 32	32	58	55	24	38
225040	ISO 50 / K.T.B. 40	40	70	55	27	41

BT - BBT Pens Başlıkları

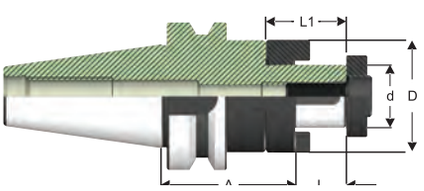




Ürün Kodu	Ürün Adı	d	D	A
310462	BT30 / 462 Pens Başlığı	2....25 mm	60	80
311462	BT40 / 462 Pens Başlığı	2....25 mm	60	70
311467	BT40 / 467 Pens Başlığı	3....32 mm	72	90
315462	BTS0 / 462 Pens Başlığı	2....25 mm	60	8S
315467	BT50 / 467 Pens Başlığı	3....32 mm	72	90
310426	BT30 ER 16 / 426 Pens Başlığı	2....10 mm	32	70
310430	BT30 ER 25 / 430 Pens Başlığı	2....16 mm	42	70
310470	BT30 ER 32 / 470 Pens Başlığı	2....20 mm	50	70
310472	BT30 ER 40 / 472 Pens Başlığı	2....26 mm	63	70
311426	BT40 ER 16 / 426 Pens Başlığı	2....10 mm	32	63
311430	BT40 ER 25 / 430 Pens Başlığı	2....16 mm	42	60
311470	BT40 ER 32 / 470 Pens Başlığı	2....20 mm	50	70
311472	BT40 ER 40 / 472 Pens Başlığı	2....26 mm	63	80
315426	BT50 ER 16 / 426 Pens Başlığı	2....10 mm	32	70
315430	BT50 ER 25 / 430 Pens Başlığı	2....16 mm	42	70
315470	BT50 ER 32 / 470 Pens Başlığı	2....20 mm	50	70
315472	BT50 ER 40 / 472 Pens Başlığı	2....26 mm	63	80
310426-1	BT30 ER 16 / 426 Pens Başlığı	2....10 mm	32	100
310430-1	BT30 ER 25 / 430 Pens Başlığı	2....16 mm	42	100
310470-1	BT30 ER 32 / 470 Pens Başlığı	2....20 mm	50	100
310472-1	BT30 ER 40 / 472 Pens Başlığı	2....26 mm	63	100
312426	BT40 ER 16 / 426 Pens Başlığı	2....10 mm	32	100
312426-1	BT40 ER 16 / 426 Pens Başlığı (mini)	2....10 mm	22	100
312430	BT40 ER 25 / 430 Pens Başlığı	2....16 mm	42	100
312470	BT40 ER 32 / 470 Pens Başlığı	2....20 mm	50	100
312472	BT40 ER 40 / 472 Pens Başlığı	2....26 mm	63	100
316426	BT50 ER 16 / 426 Pens Başlığı	2....10 mm	32	100
316430	BT50 ER 25 / 430 Pens Başlığı	2....16 mm	42	100
316470	BT50 ER 32 / 470 Pens Başlığı	2....20 mm	50	100
316472	BT50 ER 40 / 472 Pens Başlığı	2....26 mm	63	100
313426	BT40ER16/426 Pens Başlığı	2....10 mm	32	160
313426-1	BT40 ER 16 / 426 Pens Başlığı (mini)	2....10 mm	22	160
313430	BT40 ER 25 / 430 Pens Başlığı	2....16 mm	42	160
313470	BT40 ER 32 / 470 Pens Başlığı	2....20 mm	50	160
313472	BT40 ER 40 / 472 Pens Başlığı	2....26 mm	63	160
317426	BT50ER16/426 Pens Başlığı	2....10 mm	32	160
317426-1	BT50 ER 16 / 426 Pens Başlığı (mini)	2....10 mm	22	160
317430	BT50 ER 25 / 430 Pens Başlığı	2....16 mm	42	160
317470	BT50 ER 32 / 470 Pens Başlığı	2....20 mm	50	160
317472	BT50 ER 40 / 472 Pens Başlığı	2....26 mm	63	160

BT - BBT Kombine Tarama Başlıkları

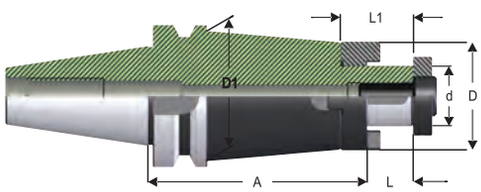




Ürün Kodu	Ürün Adı	d	D	A	L	L1
323016	BT 30/ K.T.B. 16	16	32	45	17	27
323022	BT 30/ K.T.B. 22	22	40	47	19	31
323027	BT 30/ K.T.B. 27	27	48	49	21	33
324016	BT 40/ K.T.B. 16	16	32	55	17	27
324022	BT 40/ K.T.B. 22	22	40	55	19	31
324027	BT 40/ K.T.B. 27	27	48	55	21	33
324032	BT 40/ K.T.B. 32	32	58	60	24	38
324040	BT 40/ K.T.B. 40	40	70	60	27	41
325016	BT 50/ K.T.B. 16	16	32	70	17	27
325022	BT 50/ K.T.B. 22	22	40	70	19	31
325027	BT 50/ K.T.B. 27	27	48	70	21	33
325032	BT 50/ K.T.B. 32	32	58	70	24	38
325040	BT 50/ K.T.B. 40	40	70	70	27	41

BT - BBT Kombine Tarama Başlıkları

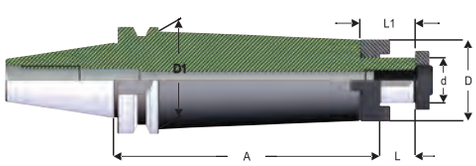




Ür. Kodu	Ürün Adı	d	D	A	L	L1	D1
324116	BT 40 / K.T.B. 16	16	32	100	17	27	38
324122	BT 40 / K.T.B. 22	22	40	100	19	31	48
324127	BT 40 / K.T.B. 27	27	48	100	22	33	58
324132	BT 40/ K.T.B. 32	32	58	100	24	38	61
324140	BT 40/ K.T.B. 40	40	70	100	27	41	70
325116	BT 50 / K.T.B. 16	16	32	100	17	27	38
325122	BT 50 / K.T.B. 22	22	40	100	19	31	48
325127	BT 50 / K.T.B. 27	27	48	100	22	33	58
325132	BT 50/ K.T.B. 32	J2	58	100	24	38	68
325140	BT 50 / K.T.B. 40	40	70	100	27	41	80

BT - BBT Kombine Tarama Başlıkları

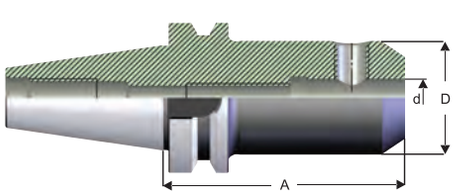




Ür. Kodu	Ürün Adı	d	D	A	L	L1	D1
324116-1	BT 40 / K.T.B. 16	16	32	160	17	27	38
324122-1	BT 40 / K.T.B. 22	22	40	160	19	31	48
324127-1	BT 40 / K.T.B. 27	27	48	160	22	33	58
324132-1	BT 40/ K.T.B. 32	32	58	160	24	38	61
324140-1	BT 40/ K.T.B. 40	40	70	160	27	41	70
325116-1	BT 50 / K.T.B. 16	16	32	160	17	27	38
325122-1	BT 50 / K.T.B. 22	22	40	160	19	31	48
325127-1	BT 50 / K.T.B. 27	27	48	160	22	33	58
325132-1	BT 50/ K.T.B. 32	J2	58	160	24	38	68
325140-1	BT 50 / K.T.B. 40	40	70	160	27	41	80

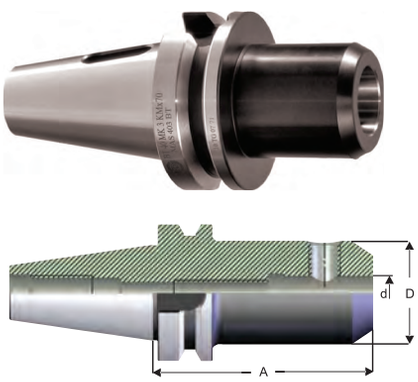
BT - BBT Veldon Tutucular





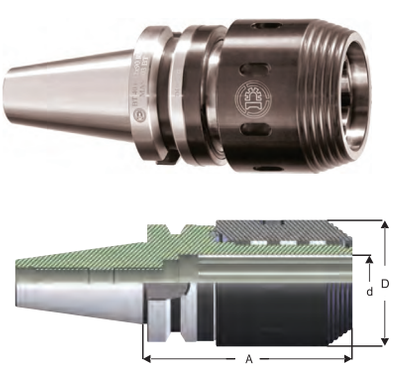
Ürün Kodu	Ürün Adı	d	D	A
343006	BT 30 WELDON	6	25	50
343008	BT 30 WELDON	8	28	50
343010	BT 30 WELDON	10	35	50
343012	BT 30 WELDON	12	42	50
343014	BT 30 WELDON	14	44	50
343016	BT 30 WELDON	16	48	63
343018	BT 30 WELDON	18	50	63
343020	BT 30 WELDON	20	52	63
344006	BT 40 WELDON	6	Z5	50
344008	BT 40 WELDON	8	28	50
344010	BT 40 WELDON	10	35	63
344012	BT 40 WELDON	12	42	63
344014	BT 40 WELDON	14	44	63
344016	BT 40 WELDON	16	48	63
344018	BT 40 WELDON	18	50	63
344020	BT 40 WELDON	20	52	63
344025	BT 40 WELDON	25	63	90
344032	BT 40 WELDON	32	72	100
344040	BT 40 WELDON	40	79	120
344105	BT 40 WELDON	5	25	100
344106	BT 40 WELDON	6	Z5	100
344108	BT 40 WELDON	8	28	100
344110	BT 40 WELDON	10	35	100
344112	BT 40 WELDON	12	42	100
344114	BT 40 WELDON	14	44	100
344116	BT 40 WELDON	16	48	100
344118	BT 40 WELDON	18	50	100
344120	BT 40 WELDON	20	52	100

BT - BBT Veldon Tutucular



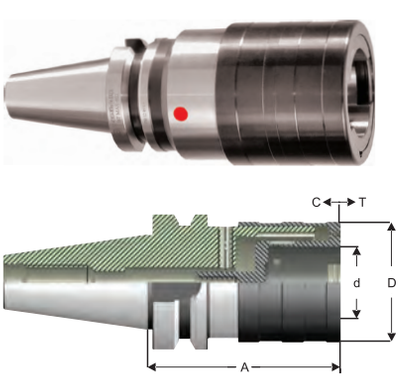
Ürün Kodu	Ürün Adı	d	D	A
344106-1	BT 40 WELDON	6	25	160
344108-1	BT 40 WELDON	8	28	160
344110-1	BT 40 WELDON	10	35	160
344112-1	BT 40 WELDON	12	42	160
344114-1	BT 40 WELDON	14	44	160
344116-1	BT 40 WELDON	16	48	160
344118-1	BT 40 WELDON	18	50	160
344120-1	BT 40 WELDON	20	52	160
344125-1	BT 40 WELDON	25	63	160
344132-1	BT 40 WELDON	32	72	160
345006	BT 50 WELDON	6	25	63
345008	BT 50 WELDON	8	28	63
345010	BT 50 WELDON	10	35	63
345012	BT 50 WELDON	12	42	80
345014	BT 50 WELDON	14	44	80
345016	BT 50 WELDON	16	48	80
345018	BT 50 WELDON	18	50	80
345020	BT 50 WELDON	20	52	80
345025	BT 50 WELDON	25	65	100
345032	BT 50 WELDON	32	72	105
345040	BT 50 WELDON	40	80	110
345106	BT 50 WELDON	6	25	160
345108	BT 50 WELDON	8	28	160
345110	BT 50 WELDON	10	35	160
345112	BT 50 WELDON	12	42	160
345116	BT 50 WELDON	16	48	160
345120	BT 50 WELDON	20	52	160
345125	BT 50 WELDON	25	65	160
345132	BT 50 WELDON	32	72	160
345140	BT 50 WELDON	40	80	160

BT - BBT Rulman Pens Tutucu



Ürün Kodu	Ürün Adı	Kapasite	D	A
318420	BT 40 Rulmanlı Pens Tutucu	6.....20	75	49
318432	BT 40 Rulmanlı Pens Tutucu	6.....32	90	68
319520	BT 50 Rulmanlı Pens Tutucu	6.....20	90	49
319532	BT 50 Rulmanlı Pens Tutucu	6.....32	95	68

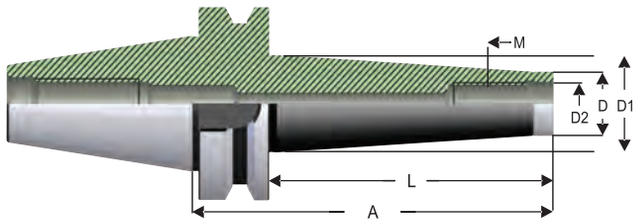
BT - BBT Kılavuz Çekme Başlığı



Ür. Kodu	Ürün Adı	d	A	D	C	T
376214	BT 30 M2 / M14 Em.Tip Klv.Tek.Baş.	19	64	38	7	7
376524	BT 30 M5/ M24 Em.Tip Klv.Tek.Baş.	31	95	54	12	12
377214	BT 40 M2 / M14 Em.Tip Klv.Tek.Baş.	19	67	38	7	7
377524	BT 40 M5 / M24 Em.Tip Klv.Tek.Baş.	31	93	54	12	12
3771436	BT 40 M14 / M36 Em.Tip Klv.Tek.Baş.	48	136	78	17,5	175
378214	BT 50 M2 / M14 Em.Tip Klv.Tek.Baş.	19	82	38	7	7
378524	BT 50 M5 / M24 Em.Tip Klv.Tek.Baş.	31	102	54	12	12
3781436	BT 50 M14 / M36 Em.Tip Klv.Tek.Baş.	48	142	78	17,5	17,5

BT - BBT Vidalı Takım Tutucu

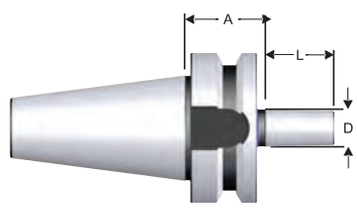




Ürün Kodu	Ürün Adı	M	D	D1	A	L	D2
384008	BT 40 Vidalı Takım Tutucu	M8	13	23	77	50	8.5
384008-1	BT 40 Vidalı Takım Tutucu	M8	13	25	127	100	8.5
384008-2	BT 40 Vidalı Takım Tutucu	M8	13	30	177	150	8.5
384010	BT 40 Vidalı Takım Tutucu	M10	18	23	77	50	10.5
384010-1	BT 40 Vidalı Takım Tutucu	M10	18	32	127	100	10.5
384010-2	BT 40 Vidalı Takım Tutucu	M10	18	36	177	150	10.5
384012	BT 40 Vidalı Takım Tutucu	M12	21	25	77	50	12.5
384012-1	BT 40 Vidalı Takım Tutucu	M12	21	32	127	100	12.5
384012-2	BT 40 Vidalı Takım Tutucu	M12	21	40	177	150	12.5
384016	BT 40 Vidalı Takım Tutucu	M16	29	34	102	75	17
384016-1	BT 40 Vidalı Takım Tutucu	M16	29	40	152	125	17
385008	BT 50 Vidalı Takım Tutucu	M8	13	25	138	100	8.5
385008-1	BT 50 Vidalı Takım Tutucu	M8	13	30	188	150	8.5
385010	BT 50 Vidalı Takım Tutucu	M10	18	32	138	100	10.5
385010-1	BT 50 Vidalı Takım Tutucu	M10	18	36	188	150	10.5
385012	BT 50 Vidalı Takım Tutucu	M12	21	33	138	100	12.5
385012-1	BT 50 Vidalı Takım Tutucu	M12	21	40	188	150	12.5
385016	BT 50 Vidalı Takım Tutucu	M16	29	36	138	100	17
385016-1	BT 50 Vidalı Takım Tutucu	M16	29	42	188	150	17

BT - BBT Mandren Adaptörü

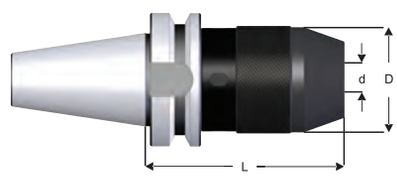




Ürün Kodu	Ürün Adı	D	A	L
373012	BT 30 Mandren Araptörü	B12	25	18,5
373016	BT 30 Mandren Araptörü	B16	25	24
374012	BT 40 Mandren Araptörü	B12	32	18,5
374016	BT 40 Mandren Araptörü	B16	32	24
374018	BT 40 Mandren Araptörü	B18	32	32
375016	BT50 Mandren Araptörü	B16	43	24
375018	BT 50 Mandren Araptörü	B18	43	32

BT - BBT Mandren Tutucu

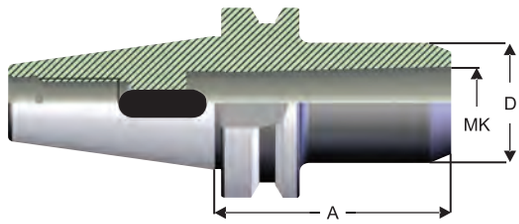




Ürün Kodu	Ürün Adı	D	A	L
373116	BT 30 NC Mandren Tutucu	1.....16	51	112
374116	BT 40 NC Mandren Tutucu	1.....16	51	97
375116	BT 50 NC Mandren Tutucu	1.....16	51	108

BT - BBT Kamalı Mors Adaptörü





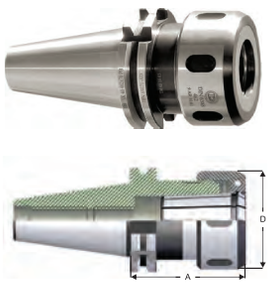
Ürün Kodu	Ürün Adı	d	D	A
353001	BT 30 Kamalı Mors Adaptörü	1	25	45
353002	BT 30 Kamalı Mors Adaptörü	2	32	60
353003	BT 30 Kamalı Mors Adaptörü	3	40	75
354001	BT 40 Kamalı Mors Adaptörü	1	25	50
354002	BT 40 Kamalı Mors Adaptörü	2	32	50
354003	BT 40 Kamalı Mors Adaptörü	3	40	70
354004	BT 40 Kamalı Mors Adaptörü	4	48	95
355001	BT 50 Kamalı Mors Adaptörü	1	25	45
355002	BT 50 Kamalı Mors Adaptörü	2	32	60
355003	BT 50 Kamalı Mors Adaptörü	3	40	65
355004	BT 50 Kamalı Mors Adaptörü	4	48	95
355005	BT 50 Kamalı Mors Adaptörü	5	63	105

BT - BBT Pens Takımları



Ürün Kodu	Ürün Adı	MK	D
393462	BT 30 / 462 Pens Takımı	4....25 mm	16
394462	BT 40 / 462 Pens Takımı	4....25 mm	16
394467	BT 40/ 467 Pens Takımı	5....32 mm	16
395462	BT 50/ 462 Pens Takımı	4....25 mm	16
395467	BT 50 / 467 Pens Takımı	5....32 mm	16
393430	BT 30 ER25/ 430 Pens Takımı	3....16 mm	14
393470	BT 30 ER 32/ 470 Pens Takımı	3....20 mm	14
393472	BT 30 ER 40/ 472 Pens Takımı	4....26 mm	16
394430	BT 40 ER 25/ 430 Pens Takımı	3....16 mm	14
394470	BT 40 ER 32/ 470 Pens Takımı	3....20 mm	14
394472	BT 40 ER 40/ 472 Pens Takımı	4....26 mm	16
395430	BT 50 ER 25 / 430 Pens Takımı	3....16 mm	14
395470	BT 50 ER 32/ 470 Pens Takımı	3....20 mm	14
395472	BT 50 ER 40/ 472 Pens Takımı	4....26 mm	16
398420	BT 40 Rulmanlı Pens Takımı	6....20 mm	5
398432	BT 40 Rulmanlı Pens Takımı	6....32 mm	7
399520	BT 50 Rulmanlı Pens Takımı	6....20 mm	5
399532	BT 50 Rulmanlı Pens Takımı	6....32 mm	7

SK Pens Başlıkları



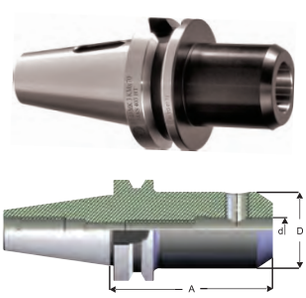
Ürün Kodu	Ürün Adı	Kapasite	D	A
510462	SK 30 / 462 Pens Başlığı	2....25mm	60	80
511462	SK 40 / 462 Pens Başlığı	2....25mm	60	70
511467	SK 40 / 467 Pens Başlığı	3....32mm	72	90
515462	SK 50 / 462 Pens Başlığı	2....25mm	62	70
515467	SK 50 / 467 Pens Başlığı	3....32mm	72	80
510426	SK 30ER 16 / 426 Pens Başlığı	2....10 mm	32	70
510430	SK 30 ER 25 / 430 Pens Başlığı	2....16 mm	42	70
510470	SK 30 ER 32 / 470 Pens Başlığı	2....20 mm	50	70
510472	SK30ER40/472 Pens Başlığı	2....26 mm	63	70
511426	SK 40 ER 16 / 426 Pens Başlığı	2....10 mm	32	63
511430	SK 40 ER 25 / 430 Pens Başlığı	2....16mm	42	60
511470	SK 40 ER 32 / 470 Pens Başlığı	2....20 mm	SO	70
51147Z	SK 40 ER 40 / 472 Pens Başlığı	2....26mm	63	80
515426	SK 50 ER 16 / 426 Pens Başlığı	2....10 mm	32	63
515430	SK 50 ER 25 / 430 Pens Başlığı	2....16 mm	42	60
515470	SK 50 ER 32 / 470 Pens Başlığı	2....20 mm	50	70
515472	SK 50 ER 40 / 472 Pens Başlığı	2....26 mm	63	80

SK Pens Başlıkları



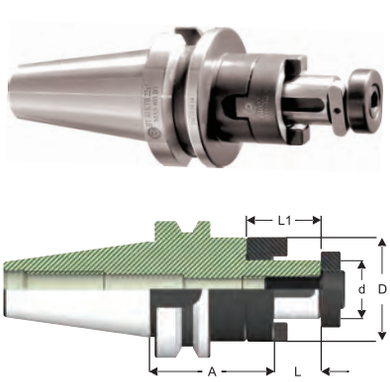
Ürün Kodu	Ürün Adı	Kapasite	D	A
510426.1	SK 30 ER 16 / 426 Pens Başlığı	2....10 mm	32	100
510430.1	SK 30 ER 25 / 430 Pens Başlığı	2....16 mm	42	100
510470.1	SK 30 ER 32 / 470 Pens Başlığı	2....20 mm	90	100
512426.1	SK 40 ER 16 / 426 Pens Başlığı (mini)	2....10 mm	22	100
512426	SK 40 ER 16 / 426 Pens Başlığı	2....10 mm	32	100
512430	SK 40 ER 25 / 430 Pens Başlığı	2....16mm	42	100
512470	SK 40 ER 32 / 470 Pens Başlığı	2....20 mm	50	100
512472	SK 40 ER 40 / 472 Pens Başlığı	2....26mm	63	100
516426	SK50ER16/426 Pens Başlığı	2....10 mm	32	100
516426.1	SK 50 ER 16 / 426 Pens Başlığı (mini)	2....10 mm	22	100
516430	SK 50 ER 25 / 430 Pens Başlığı	2....16 mm	42	100
516470	SK 50 ER 32 / 470 Pens Başlığı	2....20 mm	50	100
516472	SK 50 ER 40 / 472 Pens Başlığı	2....26 mm	63	100

SK Pens Başlıkları



Ürün Kodu	Ürün Adı	d (h5)	D	A
544006	SK 40 WELDON	6	25	50
544008	SK 40 WELDON	8	28	50
544010	SK 40 WELDON	10	35	50
544012	SK 40 WELDON	12	42	50
544014	SK 40 WELDON	14	44	50
544016	SK 40 WELDON	16	48	63
544018	SK 40 WELDON	18	50	63
544020	SK 40 WELDON	20	52	63
544025	SK 40 WELDON	25	63	100
544032	SK 40 WELDON	32	72	100
544040	SK 40 WELDON	40	79	120

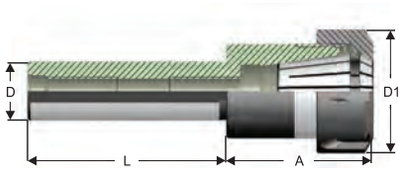
SK Pens Başlıkları



Ürün Kodu	Ürün Adı	d (h6)	D	A	L	L1
524016	SK 40 / K.T.B.-16	16	32	55	17	27
524022	SK 40 / K.T.B.-22	22	40	55	19	31
524027	SK 40 / K.T.B.-27	27	48	55	21	33
524032	SK 40 / K.T.B.-32	32	58	60	24	38
524040	SK 40 / K.T.B.-40	40	70	60	27	41
525016	SK 50 / K.T.B.-16	16	32	55	17	27
525022	SK 50 / K.T.B.-22	22	40	55	19	31
525027	SK 50 / K.T.B.-27	27	48	55	21	33
525032	SK 50 / K.T.B.-32	32	58	55	24	38
525040	SK 50 / K.T.B.-40	40	70	55	27	41

Silindirik Şaftlı Pens Başlığı

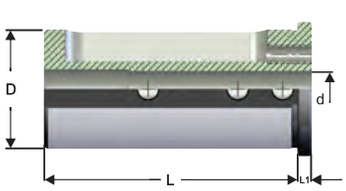




Ürün Kodu	Ürün Adı	Kapasite	D	L	A	D1
420426	Silindir Şaftlı 16 / 426 Pens Tutucu	2....10 mm	20	70	30	32
420426.1	Silindir Şaftlı 16 / 426 Pens Tutucu	2....10 mm	20	100	30	32
420426.2	Silindir Şaftlı 16 / 426 Pens Tutucu	2....10 mm	20	100	30	22
420426.3	Silindir Şaftlı 16 / 426 Pens Tutucu	2....10 mm	20	150	30	22
420426.4	Silindir Şaftlı 16 / 426 Pens Tutucu	2....10 mm	20	150	30	32
420426.5	Silindir Şaftlı 16 / 426 Pens Tutucu	2....10 mm	20	200	30	22
420428	Silindir Şaftlı 20 / 428 Pens Tutucu	2....12 mm	20	70	45	34
420428.1	Silindir Şaftlı 20 / 428 Pens Tutucu	2....12 mm	20	70	45	34
420428.2	Silindir Şaftlı 20 / 428 Pens Tutucu	2....12 mm	20	150	45	34
420430	Silindir Şaftlı 25 / 430 Pens Tutucu	2....16 mm	20	70	52	42
420430.1	Silindir Şaftlı 25 / 430 Pens Tutucu	2....16 mm	20	150	52	42
420470	Silindir Şaftlı 32 / 470 Pens Tutucu	2....20 mm	20	70	55	50
420470.1	Silindir Şaftlı 32 / 470 Pens Tutucu	2....20 mm	20	150	55	50
425426	Silindir Şaftlı 16 / 426 Pens Tutucu	2....10 mm	25	70	32	32
425426.1	Silindir Şaftlı 16 / 426 Pens Tutucu	2....10 mm	25	150	32	32
425428	Silindir Şaftlı 20 / 428 Pens Tutucu	2....12 mm	25	70	35	34
425428.1	Silindir Şaftlı 20 / 428 Pens Tutucu	2....12 mm	25	150	35	34
425430	Silindir Şaftlı 25 / 430 Pens Tutucu	2....16 mm	25	70	50	42
425430.1	Silindir Şaftlı 25 / 430 Pens Tutucu	2....16 mm	25	150	50	42
425470	Silindir Şaftlı 32 / 470 Pens Tutucu	2....20 mm	25	70	55	50
425470.1	Silindir Şaftlı 32 / 470 Pens Tutucu	2....20 mm	25	150	55	50
432426	Silindir Şaftlı 16 / 426 Pens Tutucu	2....10 mm	32	80	32	32
432430	Silindir Şaftlı 25 / 430 Pens Tutucu	2....16 mm	32	80	32	42
432430.1	Silindir Şaftlı 25 / 430 Pens Tutucu	2....16 mm	32	150	32	42
432470	Silindir Şaftlı 32 / 470 Pens Tutucu	2....20 mm	32	80	52	50
432470.1	Silindir Şaftlı 32 / 470 Pens Tutucu	2....20 mm	32	150	52	50
432472	Silindir Şaftlı 40 / 472 Pens Tutucu	2....26 mm	32	80	63	63
432472.1	Silindir Şaftlı 40 / 472 Pens Tutucu	2....26 mm	32	150	63	63
440430	Silindir Şaftlı 25 / 430 Pens Tutucu	2....16 mm	40	85	32	42
440430.1	Silindir Şaftlı 25 / 430 Pens Tutucu	2....16 mm	40	150	32	42
440470	Silindir Şaftlı 32 / 470 Pens Tutucu	2....20 mm	40	85	35	50
440470.1	Silindir Şaftlı 32 / 470 Pens Tutucu	2....20 mm	40	150	35	50
440472	Silindir Şaftlı 40 / 472 Pens Tutucu	2....26 mm	40	85	45	63
440472.1	Silindir Şaftlı 40 / 472 Pens Tutucu	2....26 mm	40	150	45	63

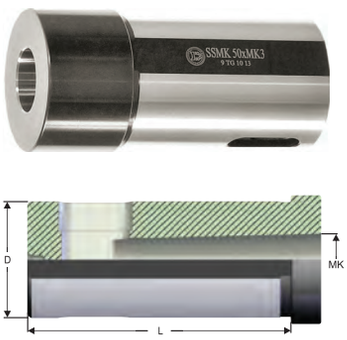
Silindirik Şaftlı Redüksiyok Kovanı





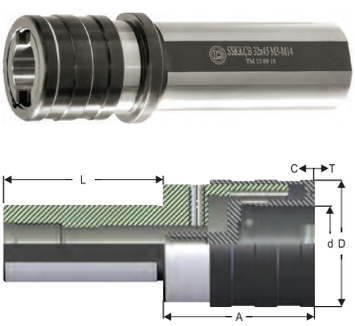
Ürün Kodu	Ürün Adı	Kapasite	D	L	L1
42006	Silindirik Şaftlı Redüksiyon Kovanı	6	20	40	5
42008	Silindirik Şaftlı Redüksiyon Kovanı	8	20	40	5
42010	Silindirik Şaftlı Redüksiyon Kovanı	10	20	40	5
42012	Silindirik Şaftlı Redüksiyon Kovanı	12	20	40	5
42016	Silindirik Şaftlı Redüksiyon Kovanı	16	20	40	5
42506	Silindirik Şaftlı Redüksiyon Kovanı	6	25	45	5
42508	Silindirik Şaftlı Redüksiyon Kovanı	8	25	45	5
42510	Silindirik Şaftlı Redüksiyon Kovanı	10	25	45	5
42512	Silindirik Şaftlı Redüksiyon Kovanı	12	25	45	5
42516	Silindirik Şaftlı Redüksiyon Kovanı	16	25	45	5
42520	Silindirik Şaftlı Redüksiyon Kovanı	20	25	45	5
43206	Silindirik Şaftlı Redüksiyon Kovanı	6	32	65	5
43208	Silindirik Şaftlı Redüksiyon Kovanı	8	32	65	5
43210	Silindirik Şaftlı Redüksiyon Kovanı	10	32	65	5
43212	Silindirik Şaftlı Redüksiyon Kovanı	12	32	65	5
43216	Silindirik Şaftlı Redüksiyon Kovanı	16	32	65	5
43220	Silindirik Şaftlı Redüksiyon Kovanı	20	32	65	5
43225	Silindirik Şaftlı Redüksiyon Kovanı	25	32	65	5
44008	Silindirik Şaftlı Redüksiyon Kovanı	8	40	75	5
44010	Silindirik Şaftlı Redüksiyon Kovanı	10	40	75	5
44012	Silindirik Şaftlı Redüksiyon Kovanı	12	40	75	5
44016	Silindirik Şaftlı Redüksiyon Kovanı	16	40	75	5
44020	Silindirik Şaftlı Redüksiyon Kovanı	20	40	75	5
44025	Silindirik Şaftlı Redüksiyon Kovanı	25	40	75	5
44032	Silindirik Şaftlı Redüksiyon Kovanı	32	40	75	5
4S008	Silindirik Şaftlı Redüksiyon Kovanı	8	S0	90	5
45010	Silindirik Şaftlı Redüksiyon Kovanı	10	50	90	5
45012	Silindirik Şaftlı Redüksiyon Kovanı	12	50	90	5
45016	Silindirik Şaftlı Redüksiyon Kovanı	16	50	90	5
45020	Silindirik Şaftlı Redüksiyon Kovanı	20	50	90	5
45025	Silindirik Şaftlı Redüksiyon Kovanı	25	50	90	5
45032	Silindirik Şaftlı Redüksiyon Kovanı	32	50	90	5
45040	Silindirik Şaftlı Redüksiyon Kovanı	40	50	90	5

Silindirik Şaftlı Mors Adaptörü



Ürün Kodu	Ürün Adı	Mors	Şaft (D)	L
43201	Silindirik Şaftlı Mors Adaptörü	1	32	75
43202	Silindirik Şaftlı Mors Adaptörü	2	32	80
43203	Silindirik Şaftlı Mors Adaptörü	3	32	80
44001	Silindirik Şaftlı Mors Adaptörü	1	40	75
44002	Silindirik Şaftlı Mors Adaptörü	2	40	85
44003	Silindirik Şaftlı Mors Adaptörü	3	40	85
44004	Silindirik Şaftlı Mors Adaptörü	4	40	85
45001	Silindirik Şaftlı Mors Adaptörü	1	50	75
45002	Silindirik Şaftlı Mors Adaptörü	2	50	88
45003	Silindirik Şaftlı Mors Adaptörü	3	50	90
45004	Silindirik Şaftlı Mors Adaptörü	4	50	90

Silindirik Şaftlı Kılavuz Çekme Başlığı



Ür. Kodu	Ürün Adı	Kapasite	A	D	d	C	T	L
4825214	Sil. Şaftlı Em. Tip Klv. Çek. B	M2....M14	45	38	19	7	7	70
4825524	Sil. Şaftlı Em. Tip Klv. Çek. B	M5....M24	71	54	31	12	12	70
4832214	Sil. Şaftlı Em. Tip Klv. Çek. B	M2....M14	45	38	19	7	7	80
4832524	Sil. Şaftlı Em. Tip Klv. Çek. B	M5....M24	71	54	31	12	12	80
4840214	Sil. Şaftlı Em. Tip Klv. Çek. B	M2....M14	45	38	19	7	7	85
4840524	Sil. Şaftlı Em. Tip Klv. Çek. B	M5....M24	71	54	31	12	12	85

Ay Anahtarı



Ürün Kodu	Ürün Adı	d	D
904042	Ay Anahtarı / 415	40	42
904550	Ay Anahtarı / Rulmanlı Takım İçin (6...20 mm)	45	50
904550	Ay Anahtarı / 440	45	50
905862	Ay Anahtarı / 462	58	62
906875	Ay Anahtarı / 467	68	75
906875	Ay Anahtarı / Rulmanlı Takım İçin (6...32 mm)	68	75
908590	Ay Anahtarı / 468	85	90

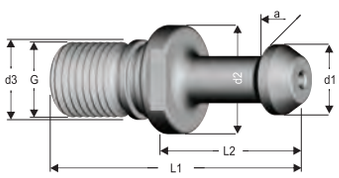
Ay Anahtarı



Ürün Kodu	Ürün Adı	D
9022426	426 (Er 16) Kapak Anahtarı	22
9032426	426 (Er 16) Kapak Anahtarı	32
9035428	428 (Er 20) Kapak Anahtarı	35
9042430	430 (Er 25) Kapak Anahtarı	42
9050470	470 (Er 32) Kapak Anahtarı	50
9063472	472 (Er 40) Kapak Anahtarı	63

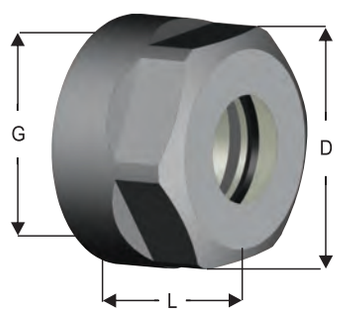
Pullstad

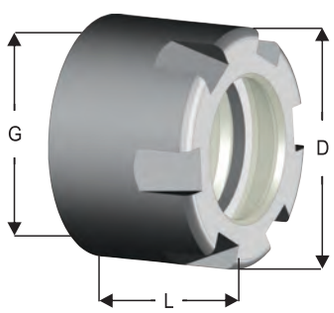


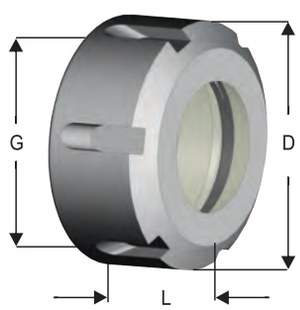


Ür. Kodu	Ürün Adı	d1	d2	L1	L2	G	a
21445	CAT 40 Mazak Pullstad	18,80	22,00	41,25	16,10	M16	45°
21445.1	BT 40 Mazak Pullstad	18,80	22,50	44,10	19,10	M16	45°
22545	CAT 50 Mazak Pullstad	29,10	37,00	65,50	25,50	M24	45°
23015	SK 30 Pullstad	13,00	17,00	44,00	24,00	M12	45°
24015	SK 40 Pullstad	19,00	23,00	54,00	26,00	M16	45°
25015	SK 50 Pullstad	28,00	36,00	74,00	34,00	M24	45°
23045	BT 30 Pullstad	11,00	16,50	43,00	23,00	M12	45°
24045	BT 40 Pullstad	15,00	23,00	60,00	35,00	M16	45°
25045	BT 50 Pullstad	23,00	38,00	85,00	45,00	M24	45°
24145	BT 40 I.S.V Pullstad	15,00	23,00	60,00	35,00	M16	45°
25145	BT 50 I.S.V Pullstad	23,00	38,00	85,00	45,00	M24	45°

Kapaklar







Ürün Kodu	Ürün Adı	Kapasite	D	G	L
40407	407 Kapak	2....12 mm	35	M27 x 1,5	20
40415	415 Kapak	2....16 mm	43	M33 x 1,5	24
40440	440 Kapak	2....20 mm	50	M42 x 2	28
40462	462 Kapak	2....25 mm	60	M48 x 2	30
40467	467 Kapak	2....32 mm	72	M60 x 2,5	33,5
40468	468 Kapak	3....40 mm	85	M68 x 2,5	37
40426	ER 16 / 426 Kapak	2....10 mm	28	M22 x 1,5	17,5
41426	ER 16/ 426 Mini Kapak	2....10 mm	22	M19 x 1	18
42426	ER 16 / 426 Kapak	2....10 mm	32	M22 x 1,5	17,5
40428	ER 20/ 428 Kapak	2.....12 mm	34	M25 x 1,5	19
41428	ER 20/ 428 Mini Kapak	2.....12 mm	28	M24 x 1	19
40430	ER 25 / 430 Kapak	2....16 mm	42	M32 x 1,5	20
40470	ER 32 / 470 Kapak	2....20 mm	50	M40 x 1,5	22,5
40472	ER 40 / 472 Kapak	2....26 mm	63	M50 x 1,5	25,5

Montaj Aparatı





Ürün Kodu	Ürün Adı
65030	ISO / BT 30 Alüminyum Montaj Aparatı
65040	ISO / BT 40 Alüminyum Montaj Aparatı
65050	ISO / BT 50 Alüminyum Montaj Aparatı
55030	ISO / BT 30 Selik Montaj Aparatı
55040	ISO / BT 40 Elik Montaj Aparatı
55050	ISO / BT 50 EElik Montaj Aparatı

VEFA
KALIP MARKET
ve KALIP SETLERİ

ÜRÜN GRUBU

08

Atölye Ekipmanları

Bu bölümde

01 Dolap ve çalışma tezgahları

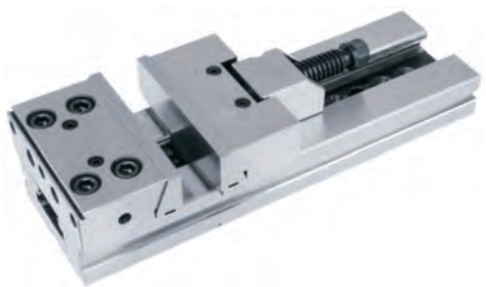
02 Taşlama ve pres ekipmanları

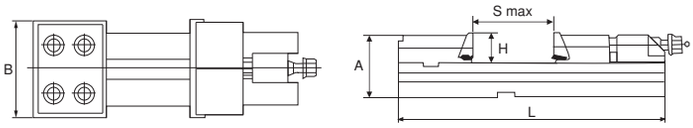
03 Kaldırma ve depolama

Teknik not

Ölçü ve stok bilgileri sipariş öncesinde teklif üzerinde teyit edilir.

Süper Hassas Mengene



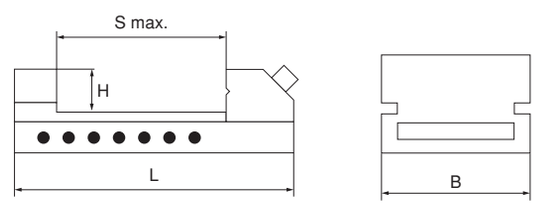


- Paralellik toleransı 0.005 mm / 100 mm
- Çalışma yüzeyleri 58-62 HRC sertleştirilip hassas taşlanmıştır.
- Hareketli çene hızlı ayarlanabilir ve kolay kullanılır.

B	S max.	L	H	A	Sıkma Kuvveti	kg
125	150	345	40	85	3000 Kgf	12.7
150	200	420	50	105	5000 Kgf	25.6
150	300	520	50	105	5000 Kgf	29.5
175	200	455	60	120	6000 Kgf	33.8
175	300	555	60	120	6000 Kgf	42.5
200	300	595	65	135	10000 Kgf	64
200	400	695	65	135	10000 Kgf	71
200	500	795	65	135	10000 Kgf	78
200	600	895	65	135	10000 Kgf	85
300	400	735	80	160	12000 Kgf	100
300	500	835	80	160	12000 Kgf	120

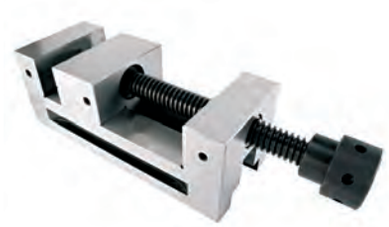
Pimli Hassas Mengene

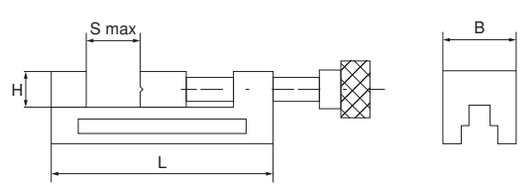




B	S max.	H	L	kg
50	65	25	140	3
73	100	35	190	4.1
100	125	45	245	10
125	160	50	285	18

Vidalı Hassas Mengene

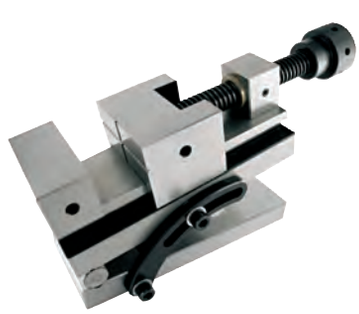


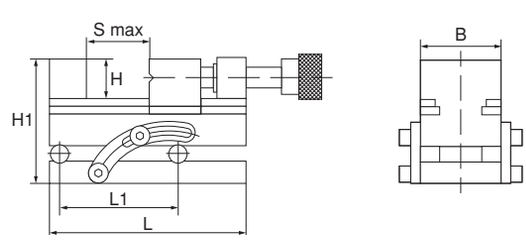


- Paralellik toleransı 0.005 mm / 100 mm
- Çalışma yüzeyleri 58-62 HRC sertleştirilip hassas taşlanmıştır.

B	S max.	H	L	kg
50	65	25	155	3
73	100	35	210	5
100	125	45	260	13
125	160	50	300	19.5

Açılı Vidalı Hassas Mengene



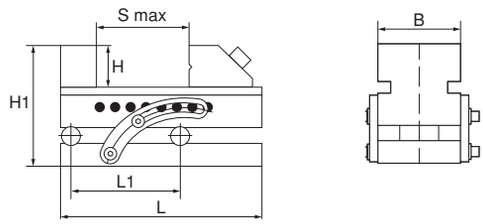


- Paralellik toleransı 0.005 mm / 100 mm
- Çalışma yüzeyleri 58-62 HRC sertleştirilip hassas taşlanmıştır.

B	S max.	H	H1	L1	L	Çalışma Açısı
50	60	25	87	100	140	0~45°
73	90	35	111	100	190	0~45°
100	125	45	139	100	245	0~45°
125	160	50	154	200	285	0~45°

Açılı Pimli Hassas Mengene





- Paralellik toleransı 0.005 mm / 100 mm
- Çalışma yüzeyleri 58-62 HRC sertleştirilip hassas taşlanmıştır.

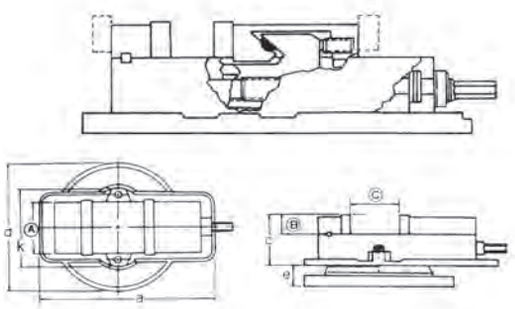
B	S max.	H	H1	L1	L	Çalışma Açısı
50	65	25	80	100	140	0~45°
73	100	35	104	100	190	0~45°
100	125	45	134	100	245	0~45°
125	160	50	144	200	285	0~45°

Hassas Tezgah Mengeneleri

VA - VD



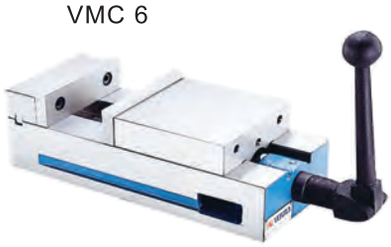
- Çeneler sulanmış ve taşlanlanmıştır.
- Çeneler değiştirilebilir
- 360° Dönerli hassas tezgah mengenesidir.



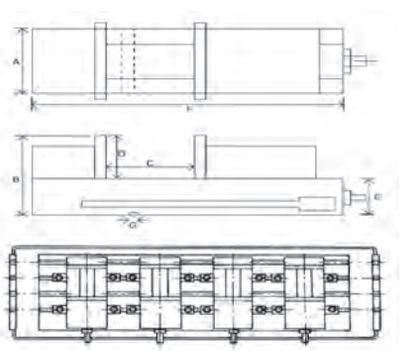
MODEL	A	C	B	a	k	c	d	e	kg	Kod
VD 690	155	230	46	450	288	118	326	40	43	1002 - 035
VD 675	160	190	49	445	295	121	296	47	42	1002 - 034
VA 5	135	112	36	359	193	101	246	32	30	1002 - 031
VA 6	155	143	46	422	209	118	288	39	42	1002 - 032
VA 8	210	220	60	553	295	145	355	45	80	1002 - 033

Hassas Tezgah Mengeneleri

VMC 4
VMC 6



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

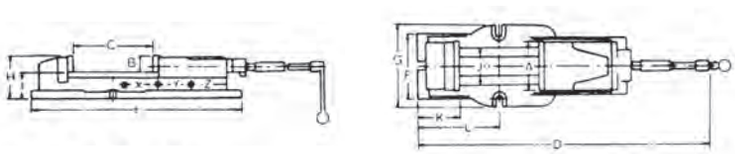


MODEL	A	C	B	F	D	Kg	Kod
VMC 4	108	100	100	285	37	14	1002 - 185
VMC 6	156	142	120	368	46	31	1002 - 186

Pimli Hassas Tezgah Mengenesi

VJ 600





MODEL	Çene Genişliği (A)	Açma 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

2 Açılı Tezgah Mengeneleri

VWT



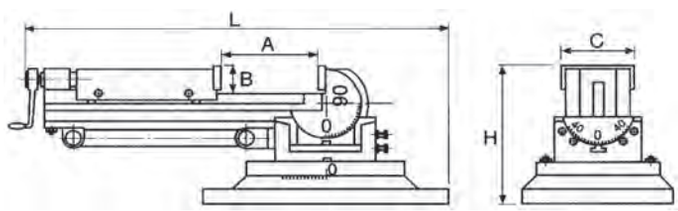
- Mengene 360° dönerlidir.
- Yatay ve dikey olarak 90° yatırılabilir.
- Hassas taşlanmış çeneler değiştirebilir.

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

3 Açılı Tezgah Mengeneleri

VW



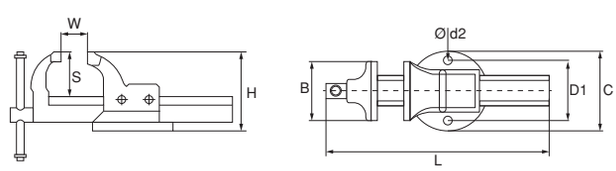


- Mengene 360° dönerlidir.
- Yatay ve dikey olarak 90° yatırılabilir.
- Sağ ve Sol'a 45° yatırılabilir.
- Hassas taşlanmış çeneler değiştirebilir.

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

Tezgah Mengenesi

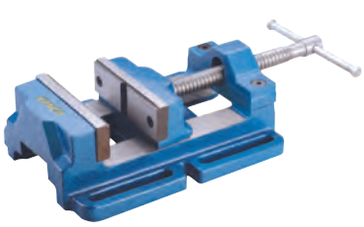


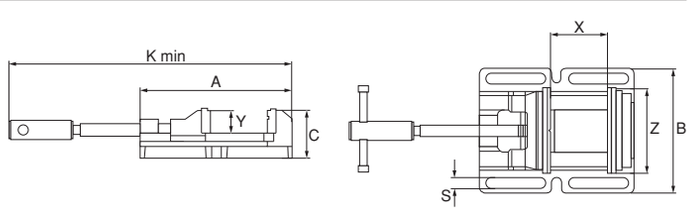


- Yüksek kaliteli (CF45) çelikten dövme olarak üretilmiştir.
- Komple sertleştirme yapıldığı gibi çeneler ve örs kısımları ayrıca indüksiyonla sertlik verilmiştir. (52-58 HRC)

B	W	L	S	H	d2	D1	C	kg
100	125	300	60	117	11.5	92	120	5.2
115	140	360	70	140	13.5	102	135	7.8
125	160	380	75	144	13.5	113	150	9.3
135	170	430	85	170	16	120	160	14
150	190	480	100	188	16	137	180	18.5
175	205	520	105	208	17.5	164	210	25
200	205	520	105	208	17.5	164	210	27

Matkap Mengenesi





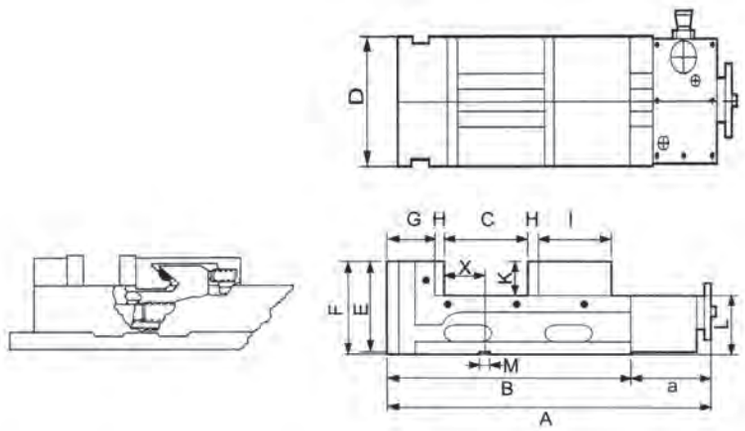
- Sağlam tasarım ve geniş çalışma kapasitesi sayesinde delme, oyma ve işlemede mükemmel bir yardımcıdır.
- Yan kayıtlar haraketli çene hassas çalışır.
- Özel vida ile hem hızlı çalışma hemde elle sıkma imkanı sağlar.

Z	X	Y	C	A	K	B	S	kg
80	80	32.5	65	170	201	137	13.5	4.5
100	100	32.5	65	193	220	156	13.5	5.35
125	125	32.5	68	225	276	182	13.5	7.94
150	220	32.5	71	301	407	207	13.5	11.7

Pnömatik Hassas CNC Mengenesi

VMC - 6PL



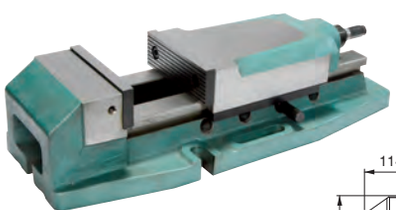


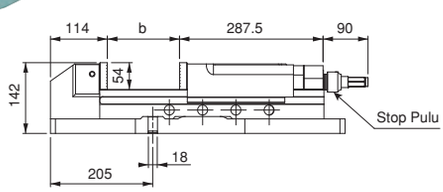
- Yüksek kaliteli çelik yüzeyler sertleştirilmiş ve taşlanmıştır.
- 1,5 sn gibi kısa bir sürede açıp kapanma özelliğine sahiptir.
- Uygulanmak istenen güç ayar tuşu ile kontrol edilip tek hareketle sıkma gerçekleştirilebilir.
- Manuel Kol sayesinde güç kontrol edilip, sıkma yapılabilir.

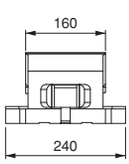
MODEL	Çene Genişliği (D)	Max. Açılım (J)	A	B	C	E	F	G	H	I	K	L	M	Sıkma Kuvveti	Kod
VMC - 6PL	160	250	630	490	140	160	163	86	15	120	58	105	18	6000 Kgf	4005 - 072

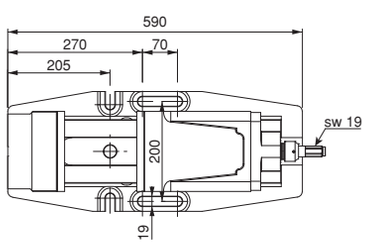
Hidrolik Mengene

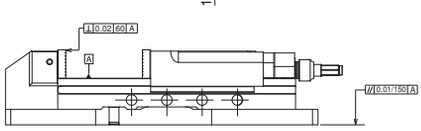
Referans Nr.	b	Sıkma kuvveti kgf	(kg)
2320-160200	0-200	4500	60









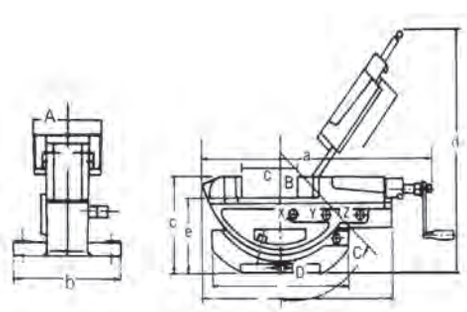


2 Açılı Hidrolik Tezgah Mengeneleri

VHT



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

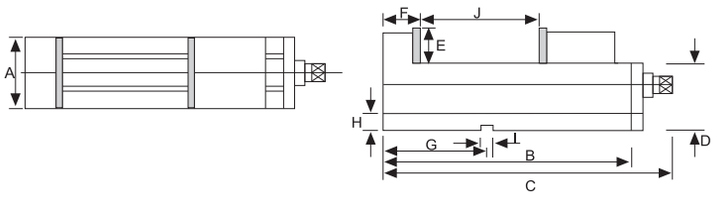


MODEL	A	Açma Kapasitesi	B	D	a	b	c	d max	e	Kuvvet	Kg	Kod
VHT 4	110	170	36	14	500	165	191	450	155	2500Kgf	32	1002-020
VHT 6	154	300	54	14	800	225	250	580	197	4500Kgf	80	1002-021

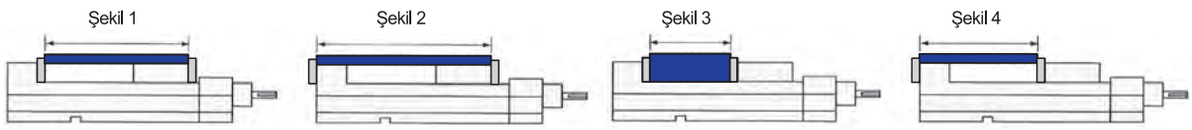
Hidrolik Tezgah Mengenesi (Güçlü Tip)

VMC HV





- Hidrolik mekanizması ve aşağı doğru sıkan hidrolik sistemi ile kuvvetli sıkma gerçekleştirir.
- Tüm yüzeyleri taşlanmış ve sertleştirilmiştir.
- Tüm yüzeyleri taşlanmış olması sebebi ile dik ve yatay pozisyonda bağlanabilir.
- Aşağıdaki şekillerde 4 ayrı biçimde çeneler değiştirilerek bağlama alanı genişletilir.

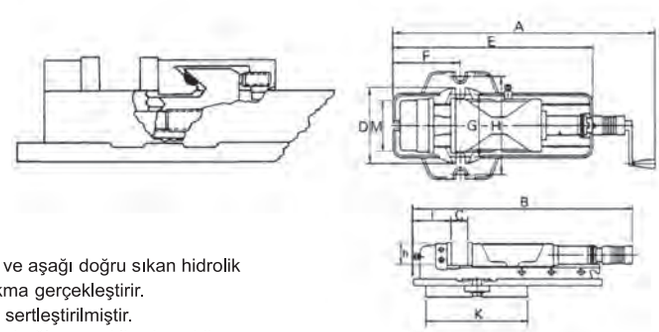


MODEL	A	B	C	D	E	F	G	Şekil 1	Şekil 2	Şekil 3	Şekil 4	Kuvvet	K g	K o d
VMC 130 HV	131	405	535	95	55	85	150	290	380	180	240	5000Kgf	40	4005-061
VMC 160 HV	161	495	625	105	58	100	165	360	470	240	320	6500Kgf	58	4005-062
VMC 200 HV	201	570	700	110	63	108	190	420	540	280	360	8000Kgf	87	4005-063

Hidrolik Tezgah Mengenesi (Güçlü Tip)

VHO





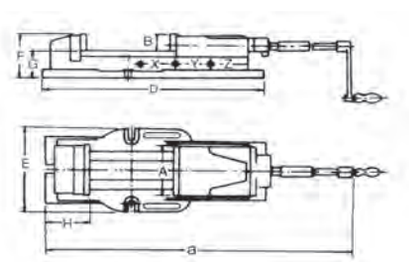
- Hidrolik mekanizması ve aşağı doğru sıkan hidrolik sistemi ile kuvvetli sıkma gerçekleştirir.
- Çeneleri taşlanmış ve sertleştirilmiştir.
- Pimli hidrolik mengene bağlama şekli çok seridir.

MODEL	Çene Genişliği	Açma Kapasitesi	B	C	D	E	F	G	H	I	K	h	Kuvvet	K o d
VHO 5	130	220	570	130	190	505	180	160	250	105	260	55	3500Kgf	1002-220
VHO 6	160	300	625	160	240	625	208	196	300	125	320	58	4000Kgf	1002-221
VHO 8	200	310	725	200	280	700	265	240	360	165	365	63	6000Kgf	1002-228

Hidrolik Tezgah Mengenesi (Ekonomik Tip)

VH



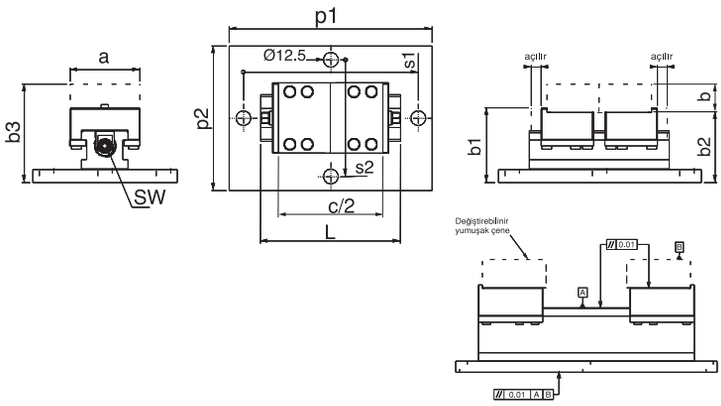


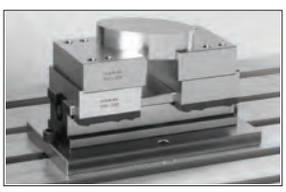
- Çeneler sertleştirilmiş ve taşlanmıştır.
- Hidrolik pimli hidrolik mengene 360° Dönerli ekonomik tiptir.

MODEL	A	Açma Kapasitesi	B	C	D	F	G	H	Kuvvet	k g	KOD
VH 4	108	175	36	525	440	95	58	95	2500Kgf	28	1002 - 001
VH 5	132	220	48	670	550	120	70	107	4500Kgf	47	1002 - 002
VH 6	151	300	52	800	620	135	82	117	4500Kgf	63	1002 - 003

Çift Açılır Çelik Mengene



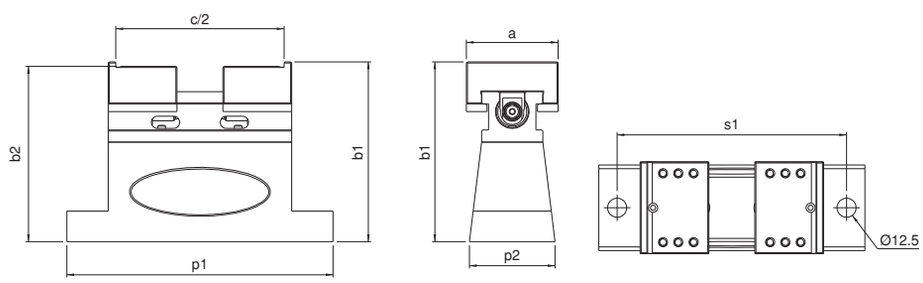




Referans Nr.	a	L	c/2	açılır 2 x mm	iş bağlama kapasitesi (mm)	b	b1	b2 ±0,02	b3	p1	p2	s1	s2	sıkma kuvveti kgf	Tork Değeri (N-m)	sw	(kg)
2310-060	60	120	90	20	120	23.5	70.5	67.5	91	174	124	150	100	800	45	9	7
2310-078	78	180	130	30	180	33	97	93	126	224	124	200	100	1500	110	12	14
2310-100	100	220	154	38	220	35	99	95	130	274	174	250	150	1500	110	12	22
2310-125	125	260	174	47	260	38	108	103	141	324	174	300	150	2000	190	14	35
2310-157	157	350	208	75	350	46	123	118	164	424	224	400	200	2200	210	17	65

Çift Açılır 5-Eksen Mengene

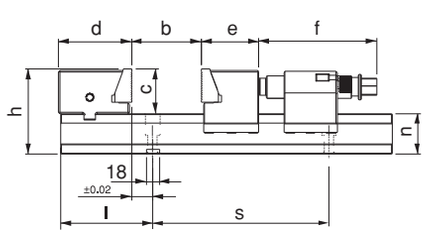


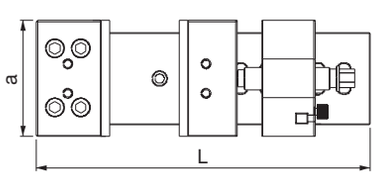


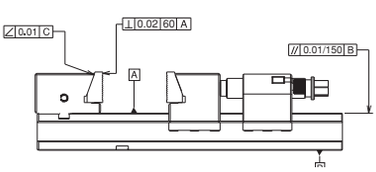
Referans Nr.	a	L	c/2	açılır 2 x mm	b1	b2 ±0,02	p1	p2	s1	sıkma kuvveti kgf	Tork Değeri (N-m)	sw	(kg)
2315-060	60	120	90	20	117.5	114.5	174	56	150	800	45	9	4.1
2315-078	78	180	130	30	159	155	224	73.5	200	1500	110	12	10
2315-100	100	220	154	38	159	155	274	95	250	1500	110	12	17.2

Mekanik Çelik Mengene



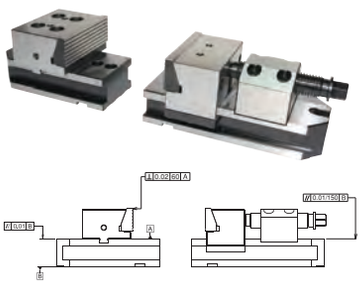


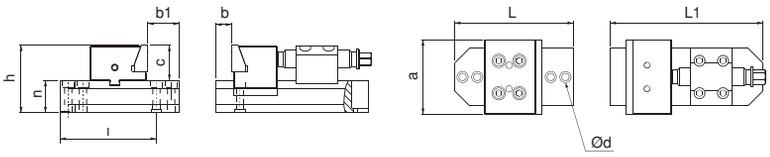




Referans Nr.	a	b	c	L	d	e	f	h	ı	n	s	sıkma kuvveti kgf	Tork Değeri (N-m)	(kg)
2330-127160	127	0-160	60	422	99	78	160	115	125	55	200	4500	170	28
2330-157200	157	0-200	60	462	99	78	160	115	150	55	200	4500	170	46
2330-157300	157	0-300	60	562	99	78	160	115	150	55	250	4500	170	51
2330-197300	197	0-300	60	562	99	78	160	115	150	55	250	4500	170	66
2330-197400	197	0-400	60	662	99	78	160	115	150	55	350	4500	170	73
2330-197500	197	0-500	60	762	99	78	160	115	150	55	250/250	4500	170	80

Modüler Mekanik Çelik Mengene

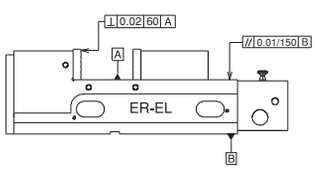


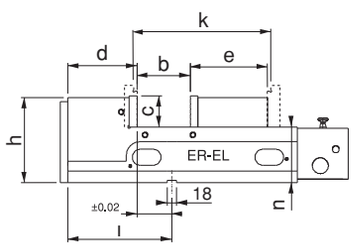


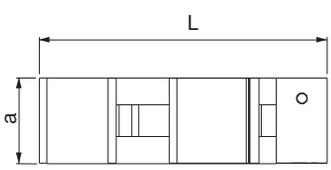
Referans Nr.	a	L	L1	b1	b	c	h	ı	n	Ød	sıkma kuvveti kgf	Tork Değeri (N-m)	(kg)
2345-127	127	202	260	53	0-58	60	115	163.5	55	12.5	4500	170	28

Pnömatik Mengene







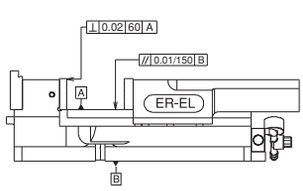


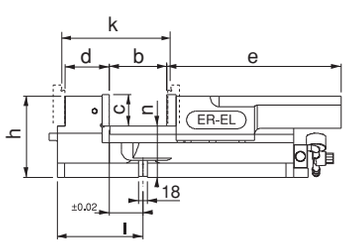
• "k" ölçüsüne yedek çenelerle ulaşılır. Yedek çeneler takıma dahil değildir.

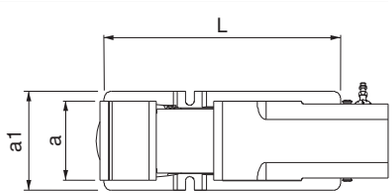
Referans Nr.	a	b	c	k	L	d	e	h	ı	n ±0.01	sıkma kuvveti kgf	haraket mesafesi	(kg)
2350-160E	160	160	58	310	530	130	145	160	190	105	2000	4	62

Pnömatik Mengene









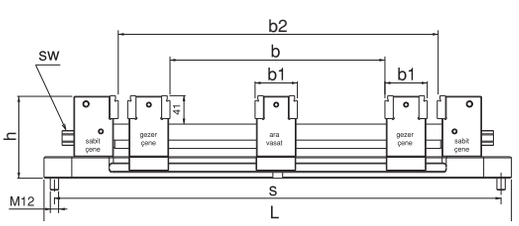
• "k" ölçüsüne yedek çenelerle ulaşılır. Yedek çeneler takıma dahil değildir.

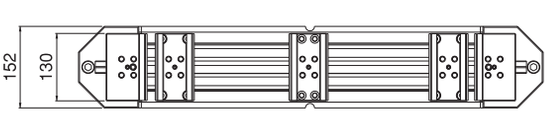
Referans Nr.	a	a1	b	c	k	L	d	e	h	ı	n ±0.01	sıkma kuvveti kgf	haraket mesafesi	(kg)
2370-051	130	188	60	58	135	327	64	209	160	-	105	1100	4	37
2370-052	130	185	140	63	225	400	69	300	160	173	105	2200	4	44
2370-053	160	201	200	63	300	485	93	353	166	170	105	3300	4	63
2370-054	200	240	250	63	360	530	93	410	166	185	105	4100	4	81

Grup Çift Açılır Çelik Mengene



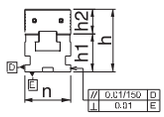
Referans Nr.	b	b1	b2	L	h	s	sw	Standart bağlama adedi	sıkma kuvveti kgf	(kg)
2375-092	92	61	224	430	119	400	19	2	2000	44
2375-192	192	61	324	530	119	500	19	2	2000	48.7
2375-342	342	61	474	680	124	650	19	2	2000	52.5
2375-442	442	61	575	780	124	750	19	2	2000	57

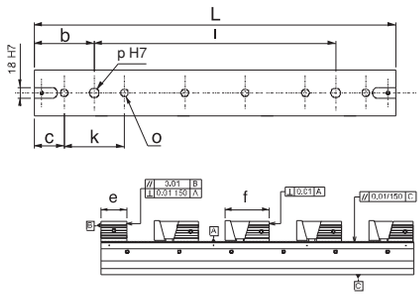




Çok Çeneli Seri Mengene



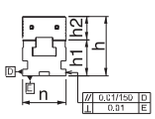


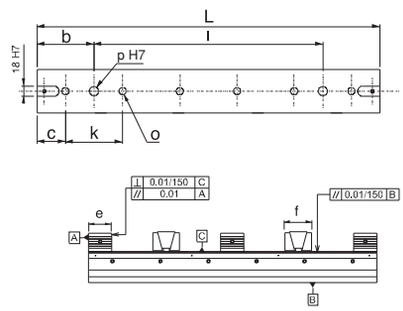


Referans Nr.	L	n	h1	h2	h	o	e	f	b	c	k	ı	p H7	Standart bağlama adedi Coupling Piece	sıkma kuvveti clamping force kgf	Tork Değeri Allowable Screw Torque (N-m)	(kg)
2430-055300	300	55	50	32	72	12.5	36	65	100	50	100	100	18	2	1750	25	9
2430-055500	500	55	50	32	72	12.5	36	65	100	50	100	300	18	4			15
2430-075400	400	75	65	37	102	12.5	48	77	100	50	100	200	18	2	2000	35	20
2430-075600	600	75	65	37	102	12.5	48	77	100	50	100	400	18	4			33
2430-100400	400	100	65	37	102	12.5	48	80	100	50	100	200	18	2	2500	50	27
2430-100600	600	100	65	37	102	12.5	48	80	100	50	100	400	18	3			41

Çok Çeneli Seri Mengene



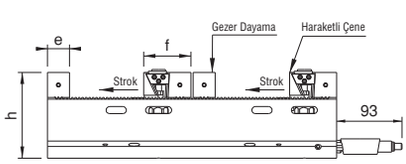


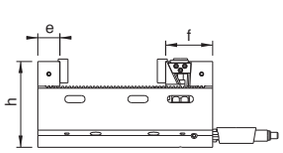


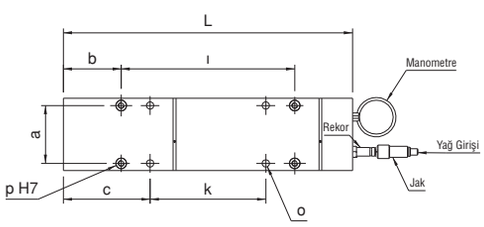
Referans Nr.	L	n	h1	h2	h	o	e	f	b	c	k	ı	p H7	sıkma kuvveti clamping force Kgf	Tork Değeri Allowable Screw Torque (N-m)
2435-055300	300	55	50	32	82	12.5	32	37	100	50	100	100	18	1750	25
2435-055500	500	55	50	32	82	12.5	32	37	100	50	100	300	18		
2435-075400	400	75	65	37	102	12.5	37	57	100	50	100	200	18	2000	35
2435-075600	600	75	65	37	102	12.5	37	57	100	50	100	400	18		
2435-100400	400	100	65	37	102	12.5	37	57	100	50	100	200	18	2500	50
2435-100600	600	100	65	37	102	12.5	37	57	100	50	100	400	18		

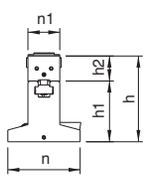
Hidrolik Çok Çeneli Seri Mengene





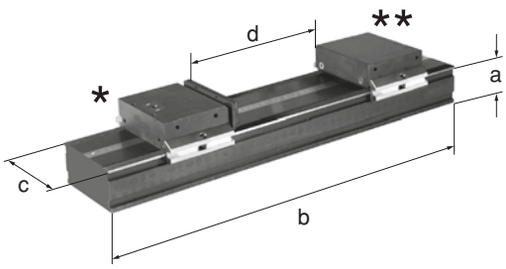






Referans Nr.	L	n	n1	h	h1	h2	o	e	f	a	b	c	k	ı	p H7	Standart bağlama adedi Coupling Piece	Stroke	sıkma kuvveti clamping force Kgf
2443-055300	300	125	55	148	105	43	12.5	38	81.5	100	50	100	100	200	18	1	8	750
2443-055500	500	125	55	148	105	43	12.5	38	81.5	100	100	150	200	300	18	2	8	750
2443-075400	400	175	75	158	115	43	12.5	48	88	150	50	100	200	300	18	2	8	1100
2443-075600	600	175	75	158	115	43	12.5	48	88	150	100	150	300	400	18	-	8	1100
2443-100400	400	175	100	158	115	43	12.5	48	88	150	50	100	200	300	18	2	8	1100
2443-100600	600	175	100	158	115	43	12.5	48	88	150	100	150	300	400	18	-	8	1100

Seri Mengene



Referans Nr.	a	b	c	d
2440-SL080400	35	400	80	0-289
2440-SL080500	35	500	80	0-389
2440-SL080600	35	600	80	0-489

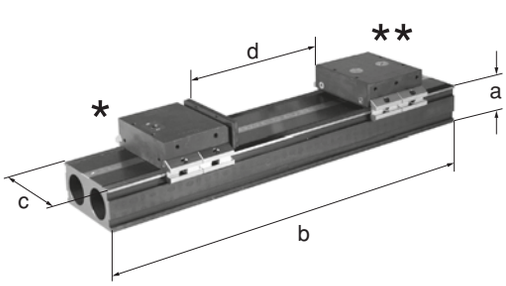
Gezer Çene Çeşitleri / Portable Jaw Types



Dayama Çeşitleri / Stopper Types



Seri Mengene

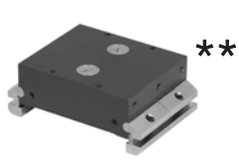


Referans Nr.	a	b	c	d
2440-SL120300	60	300	120	0-90
2440-SL120600	60	600	120	0-390
2440-SL120800	60	800	120	0-590

Gezer Çene Çeşitleri



Dayama



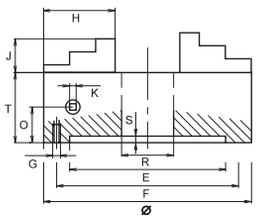
Seri Mengene Dayaması



Referans Nr.
2440-SL80120

3 Ayaklı Torna Aynalar



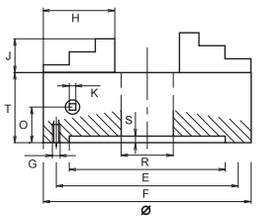


- 3 Ayaklı merkezi sıkmalı üniversal torna aynası
- Yüksek kaliteli döküm gövde
- Torna tezgahlarında, freze, divizör ve döner tablalarda kullanılır.

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

4 Ayaklı Torna Aynalar





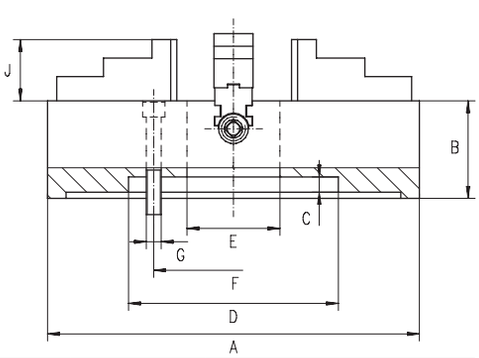
- 4 Ayaklı merkezi sıkmalı üniversal torna aynası
- Yüksek kaliteli döküm gövde
- Torna tezgahlarında, freze, divizör ve döner tablalarda kullanılır.

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

Kepenkli Torna 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

Standart Aksesuarlar



Anahtar



Düz Ayak



Ters Ayak



Pinyon

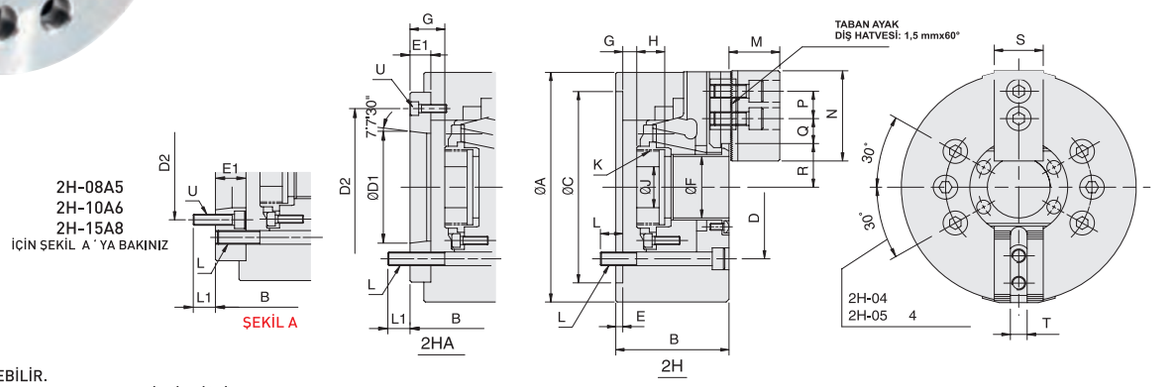


Spiral

2 Ayaklı Açık Merkezli Hidrolik Ayna / 2H



- Açık merkezli 2 ayaklı tipdir.
- Tüm hareketli parçalar sertleştirilmiş ve taşlanmıştır.
- Ayna üzerinde yumuşak ayaklar montajlı olarak sevk edilir.
- Sert ayaklar ayrıca sipariş edilmesi gerekir, fiyata dahil değildir.
- Yüksek hassasiyetli ve yüksek mukavemetli tasarıma sahiptir.



TEKNİK ÖZELLİKLER DEĞİŞEBİLİR.
2H-A ÖLÇÜ VE ÖZELLİKLERİ KIRMIZI RENKLE BELİRTİLMİŞTİR.

Özellik / MODEL/ADAPTÖR	Piston Stroku (mm)	Ayak Stroku (mm)	SIKMA ÇAPI (mm) max	SIKMA ÇAPI (mm) min	Max Çekme Kuvveti Kgf	Max Sıkma Kuvveti Kgf	Max Devir d / d	Atalet Moment GD² Kg	Ağırlık Kg		Uygun Silindir Modeli	Max Hidrolik Basıncı (kgf/cm ²)
2H-04	10	5.4	110	7	9.2(940)	18.9(1930)	8000	0.01	3.8		TH-536	1.6(16)
2H-05 A4			135	12	11.7(1190)	23.9(2440)	7000	0.02	6.5	7,3		2.0(20)
2H-06 A5	12	5.5	168	15	14.4(1470)	37.9(3870)	6000	0.06	11.5	13,3	TH-646	1.9(19)
2H-08 A5	16	7.4	210	13	23.1(2360)	57.2(5840)	5000	0.17	21.3	24,2	TH-852	1.9(19)
2H-08 A6										22,4		
2H-10 A6	19	8.8	254	31	28.4(2900)	73.9(7540)	4200	0.31	33.5	40,5	TH-1075	1.8(18)
2H-10 A8										39		
2H-12 A8	23	10.6	304	34	36.7(3740)	95.8(9780)	3300	0.70	59.7	62,7	TH-1291	1.8(18)
2H-15 A8			381	50	46.9(4790)	119.6(12200)	2500	2.42	115	129	TH-1512	1.7(17)
2H-15 A11								2.34		122		

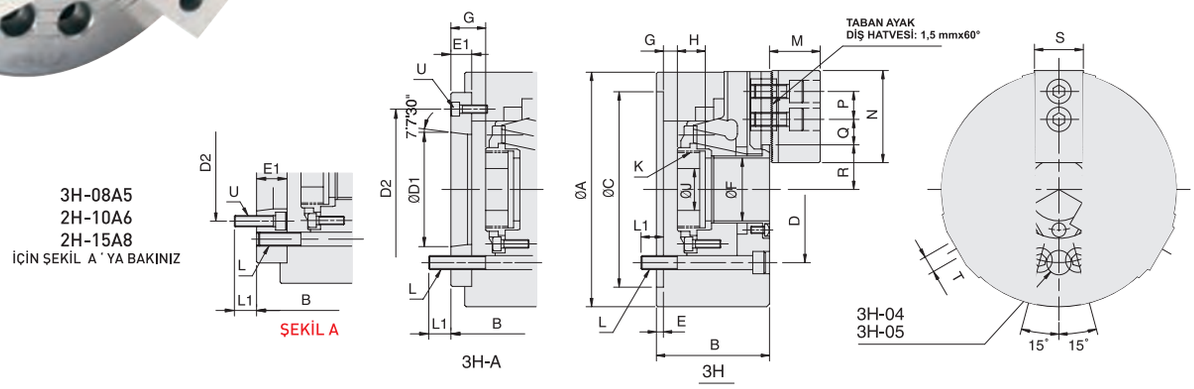
Özellik / MODEL/ADAPTÖR	A	B		C (H6)	D	D1	D2	E	E1	F	G (max)		G (min)		H	J
2H-04	110	59		85	70.6	-	-	4	-	26	3.5		-6.5		17.5	12
2H-05 A4	135	60	71	110	82.6	63.51	96		15	33	1	16	-9	6	20	
2H-06 A5	168	68	91	140	104.8	82.56	116	5		45	11	26	-1	14	15	20
2H-08 A5	210	91	109	170	133.4		104.8		23	52	14.5	37.5	-1.5	21.5	20.5	30
2H-08 A6			103			106.38	150		17			31.5		15.5		
2H-10 A6	254	100	120	220	171.4		133.4		25	75	8.5	33.5	-10.5	14.5	25	45
2H-10 A8			113			139.72	190		18			26.5		7.5		
2H-12 A8	304	110	122					6		91	8	26	-15	3	28	50
2H-15 A8	381	133	160	300	235		171.4		33	120	11	44	-12	21	39	60
2H-15 A11			149			196.87	260		22			33		10		

Özellik / MODEL/ADAPTÖR	K (max)	L	L1		M	N	P	Q (max)	Q (min)	R (max)	R (min)	S	T	U
2H-04	M 32X1.5	4~M10	16		24	52	14	11.3	6.8	23	20.3	25	10	-
2H-05 A4	M 40x1.5		15	15	31	62		19.8	7.8	26,5	23.8			3~M6
2H-06 A5	M 55x2	6~M10	16	16	37	73	20	22.8	9.3	32	29.3	31	12	
2H-08 A5	M 60x2	6~M12	20	17	38	95	25	29.8	14.8	38,7	35	35	14	6~M10
2H-08 A6				18										3~M6
2H-10 A6	M 85x2	6~M16	22		43	110	30	33.8	14.3	51	46.6	40	16	6~M12
2H-10 A8				24										3~M8
2H-12 A8	M 100x2		23	25	51	130		45.8	15.8	61.3	56	50	21	
2H-15 A8	M 130x2	6~M20	30	24	63	165	43	47.3	18.2	80	74.7	62	25,5 ya da	6~M16
2H-15 A11				28										3~M10

3 Ayaklı Açık Merkezli Hidrolik Ayna / 3H



- Açık merkezli 3 ayaklı tipdir.
- Tüm hareketli parçalar sertleştirilmiş ve taşlanmıştır.
- Ayna üzerinde yumuşak ayaklar montajlı olarak sevk edilir.
- Sert ayaklar ayrıca sipariş edilmesi gerekir, fiyata dahil değildir.
- Yüksek hassasiyetli ve yüksek mukavemetli tasarıma sahiptir.



TEKNİK ÖZELLİKLER DEĞİŞEBİLİR.
3H-A ÖLÇÜ VE ÖZELLİKLERİ KIRMIZI RENKLE BELİRTİLMİŞTİR.

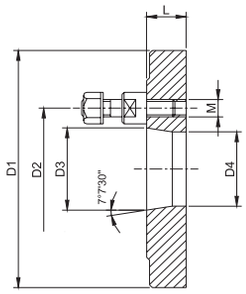
Özellik / MODEL/ADAPTÖR		Piston Stroku (mm)	Ayak Stroku (mm)	SIKMA ÇAPI (mm) max	SIKMA ÇAPI (mm) min	Max Çekme Kuvveti Kgf	Max Sıkma Kuvveti Kgf	Max Devir d / d	Atalet Moment GD² Kg	Ağırlık Kg		Uygun Silindir Modeli	Max Hidrolik Basıncı (kgf/cm ²)
3H-04		10	5,4	110	7	13.7(1400)	28.4(2900)	8000	0,01	4		TH-536	2,3(23)
3H-05	A4			135	12	17.1(1750)	35.8(3650)	7000	0,02	6,7	7,5		2,9(29)
3H-06	A5	12	5,5	168	15	21.5(2200)	56.8(5800)	6000	0,06	11,9	13,7	TH-646	2,8(28)
3H-08	A5	16	7,4	210	13	34.3(3500)	85.8(8750)	5000	0,18	22,5	25,4	TH-852	2,8(19)
	A6										23,6		
3H-10	A6	19	8,8	254	31	42.6(4380)	110.7(11300)	4200	0,33	34,5	41,5	TH-1075	2,7(27)
	A8										40		
3H-12	A8	23	10,6	304	34	54.9(5600)	143.6(14650)	3300	0,77	56,6	59,5	TH-1291	2,7(27)
3H-15	A8			381	50	71(7250)	179.8(18350)	2500	2,47	120	134	TH-1512	2,4(24)
	A11								2,39		127		
3H-18	A11			450				2000	4,78	164	178		

Özellik / MODEL/ADAPTÖR		A	B		C (H6)	D	D1	D2	E	E1	F	G (max)		G (min)		H	J
3H-04		110	59		85	70.6	-	-	4	-	26	3.5		-6.5		17.5	12
3H-05	A4	135	60	71	110	82.6	63.51	96		15	33	1	16	-9	6	20	
3H-06	A5	168	81	91	140	104.8	82.56	116	5		45	11	26	-1	14	19	20
3H-08	A5	210	91	109	170	133.4		104.8		23	52	14.5	37.5	-1.5	21.5	20.5	30
	A6			103			106.38	150		17			31.5		15.5		
3H-10	A6	254	100	120	220	171.4		133.4		25	75	8.5	33.5	-10.5	14.5	25	45
	A8			113			139.72	190		18			26.5		7.5		
3H-12	A8	304	110	122					6		91	8	26	-15	3	28	50
3H-15	A8	381	133	160	300	235		171.4		33	120	11	44	-12	21	39	60
	A11			149			196.87	260		22			33		10		
3H-18	A11	450															

Özellik / MODEL/ADAPTÖR		K (max)	L	L1		M	N	P	Q(max)	Q (min)	R (max)	R (min)	S	T	U
3H-04		M 32X1.5	3~M10	16		24	52	14	11.3	6.8	23	20.3	25	10	-
3H-05	A4	M 40x1.5		15	15	31	62		19.8	7.8	265	23.8			3~M6
3H-06	A5	M 55x2	6~M10	16	16	37	73	20	22.8	9.3	32	29.3	31	12	
3H-08	A5	M 60x2	6~M12	20	17	38	95	25	29.8	14.8	387	35	35	14	6~M10
	A6				18										3~M6
3H-10	A6	M 85x2	6~M16	22		43	110	30	33.8	14.3	51	46.6	40	16	6~M12
	A8				24										3~M8
3H-12	A8	M 100x2		23	25	51	130		45.8	15.8	61.3	56	50	21	
3H-15	A8	M 130x2	6~M20	30	24	63	165	43	47.3	18.2	80	74.7	62	25.5 yada 22	6~M12
	A11				28										3~M10

Ayna Flanşı

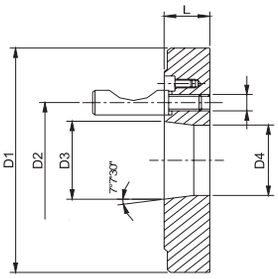




D1 (mm)	NO	D2 (mm)	D3 (mm)	D4 (mm)	L (mm)	M (mm)
160	4	85	63,525	60,6	25	M10
	5	104,8	82,563	79,4	25	M10
	6	133,4	106,375	103	25	M12
200	5	104,8	82,563	79,4	25	M10
	6	133,4	106,375	103	25	M12
	8	171,4	139,719	136	25	M16
250	5	104,8	82,563	79,4	30	M10
	6	133,4	106,375	103	30	M12
	8	171,4	139,719	136	30	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

Camlock Ayna Flanşı

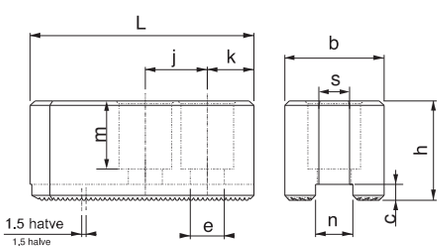




D1 (mm)	NO	D2 (mm)	D3 (mm)	D4 (mm)	L (mm)	M (mm)
160	4	82,55	63,525	60,6	25	M 12x1
	5	104,8	82,563	79,4	28	M12x1
	6	133,4	106,375	103	33	M16x1,5
200	5	104,8	82,563	79,4	28	M12x1
	6	133,4	106,375	103	33	M 16x1,5
	8	171,4	139,719	136	38	M20x1,5
250	5	104,8	82,563	79,d	33	M12x1
	6	133,4	106,375	103	33	M 16x1,5
	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	64	M 22x1,5
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	M 20x1,5
	11	235	196,869	192,5	45	M 22x1,5

CNC Yumuşak Ayak

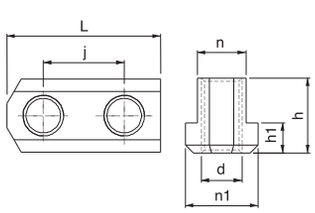




Referans Nr.	inch	hatve halve	L	b	h	n t7	c	k	j	e	m	s	Ø min	(g)
2770-0612	6” inch	1.5x60	72	32	32	12	5	15	20	11	22	10	6.5	1460
2770-0814	8” inch	1.5x60	98	37	37	14	5	24	25	13	22	14	8.5	2785
2770-1016	10” inch	1.5x60	110	42	42	16	5	30	30	13	29	14	10	4060
2770-1218	12” inch	1.5x60	130	50	52	18	5	39	30	15	32	17	12	6510
2770-1221	12” inch	1.5x60	130	50	52	21	5	39	30	17	32	19	12	6575
2775-0612	6” inch	1.5x60	72	28	37	12	5	15	20	11	17	10	6.5	1415
2775-0814	8” inch	1.5x60	95	35	67	14	5	24	25	13	19	14	8.5	4465
2775-1016	10” inch	1.5x60	110	38	77	16	5	30	30	13	19	14	10	6850
2775-1218	12” inch	1.5x60	130	48	77	18	5	39	30	15	23	17	12	10075
2775-1221	12” inch	1.5x60	130	48	77	21	5	39	30	17	23	19	12	9600

Yumuşak Ayak T-Pabucu

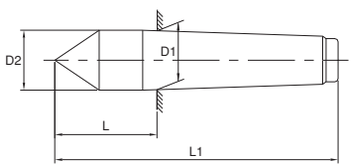




Referans Nr.	inch	L	h	n T6	n1	h1	d	j	(g)
2790-0610	6” inch	38	18.5	12	18	7.5	M10	20	55
2790-0812	8” inch	45	21.5	14	21	8.5	M12	25	85
2790-1012	10” inch	52	21.5	16	22	8.5	M12	30	115
2790-1214	12” inch	55	33.5	18	26.5	13.5	M14	30	225
2790-1216	12” inch	55	27	21	29	13.5	M16	30	210

Normal Uçlu Sabit Punta

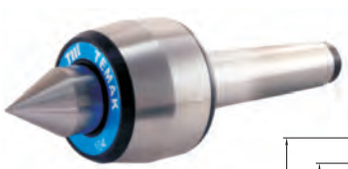


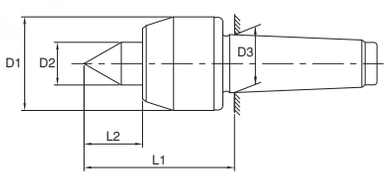


Komple sertleştirilip taşlanmıştır.
Punta ucu sertliği 60-62 HRC
Salgı: max. 0.01 mm

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

Normal Uçlu Döner Punta



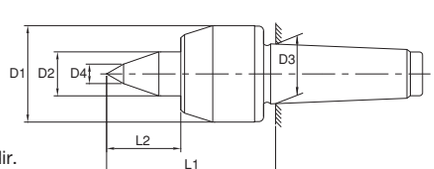


Rulman ömrü 2000 iş saatidir.
Punta ucu sertliği: 60-62 HRC
Salgı: max. 0.01 mm

Konik	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	L2 (mm)	Devir d/d (max)
MK2	45	20	17.780	65	24	6000
MK3	60	25	23.825	83	31	4300
MK4	70	32	31.267	102	40	3500
MK5	90	40	44.399	128	50	2500
MK6	105	50	63.348	151	57	2000

Kopye Uçlu Döner Punta



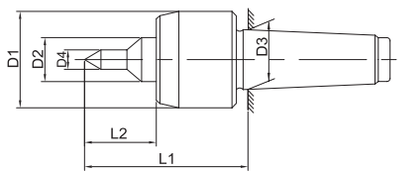


Rulman ömrü 2000 iş saatidir.
Punta ucu sertliği: 60-62 HRC
Salgı: max. 0.01 mm

Konik	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	L1 (mm)	L2 (mm)	Devir d/d (max)
MK4	70	32	31.267	12	115	51	3500
MK5	90	40	44.399	15	140	60	2500

CNC Döner Punta

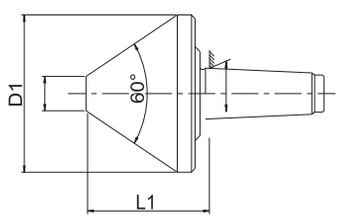




Konik	D1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	L1 (mm)	L2 (mm)	Parça Ağırlığı Kg
MK4	70	32	31.267	12	115	51	300
MK5	90	40	44.399	15	140	60	600

Boru Puntası

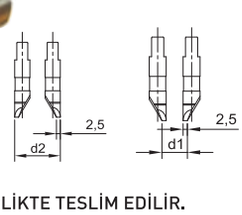


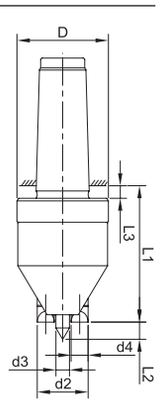


Konik	D1 (mm)	D2 (mm)	D3 (mm)	L1 (mm)	Devir d/d (max)	Parça Ağırlığı Kg
MK3	80	25	23.825	70	3000	300
MK3	100	32	23.825	85	2400	500
MK4	120	38	31.267	90	2400	500
MK5	120	38	44.399	90	2400	500
MK4	140	40	31,267	105	1800	600
MK5	140	40	44,399	105	1800	600
MK5	170	50	44.399	100	1500	1000

Tırnaklı 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 ÇAPI (mm) min	TORNALAMA ÇAPI (mm) max	D (mm)	L1 (mm)	L2 (mm)	L3 (mm)	TIRNAK SAYISI
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

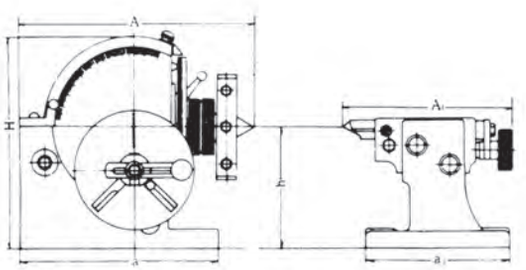
BS Tip Üniversal Divizörler

BS 0 - BS 1



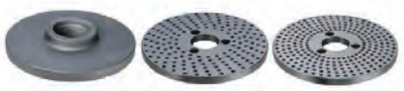
BS 0 J - BS 1 J

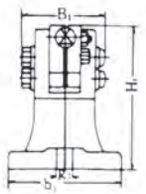


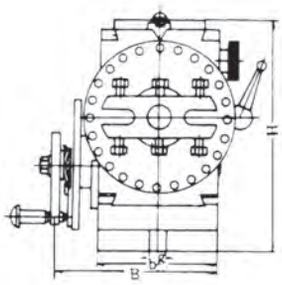




Standart Aksesuarlar







- BS Tip üniversal divizördür
- İstenilen açıdan işleme yapılabilir.
- Dikey 10º Yatay 90º altında kitlenebilir.
- Kol bir tur çevrildiğinde 9º döner.
- Kol 40 tur çevrildiğinde 360º'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

Standart Aksesuarlar

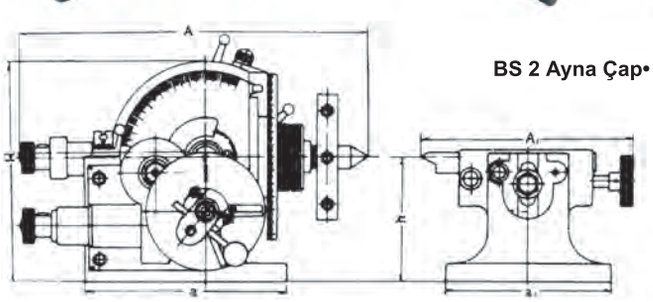
BS 2



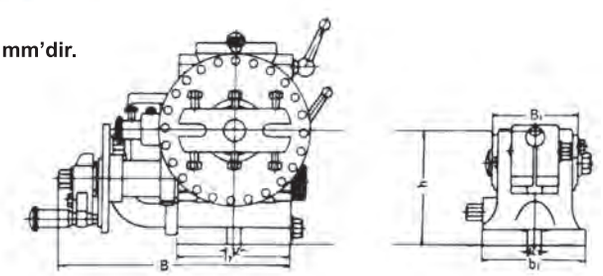


BS 2 J





BS 2 Ayna Çap• 200 mm'dir.



- BS Tip üniversal divizördür
- İstenilen açıdan işleme yapılabilir.
- Dikey 10º Yatay 90º altında kitlenebilir.
- Kol bir tur çevrildiğinde 9º döner.
- Kol 40 tur çevrildiğinde 360º'i tamamlamış olur
- Dişli oranı 40:1
- Arka kısmındaki malafası sayesinde tezgahtan hareket alarak komplike 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 İndex Divizör

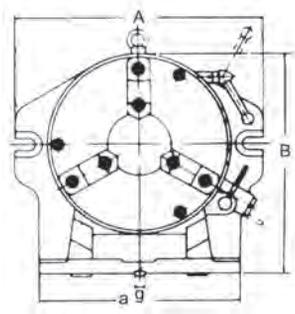
CC 6 - CC 8

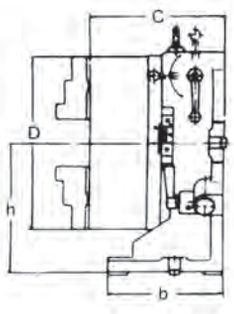


- Bölüntülü 7 ad. plakaya sahiptir.
- 180 - 120 - 90 - 60 - 45 - 30 - 15°'lerde sabitlenerek çalışabilir.
- Çalışma şekli manueldir.
- Dişli oranı 90:1









CS 6 Ayna Çap• 160 mm'dir.
CS 8 Ayna Çap• 200 mm'dir.

MODEL	A	B	C	D	a	b	h	g	Delik Ölçüsü	k g	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 İndex Divizör

CS 6
CS 8





Standart Aksesuarlar



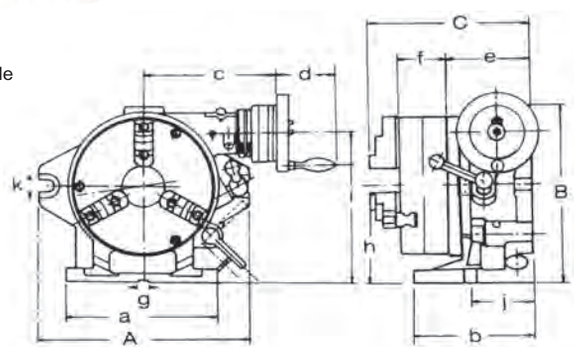
Özel Aksesuarlar





- 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

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

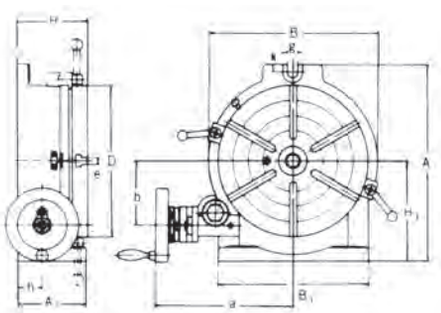


MODEL	A	B	C	a	b	c	d	e	f	g	h	i	j	k	k g	KOD
CS 6	250	235	221	220	150	184	82	112	66	16	123	186	80	18	50	1001 - 060
CS 8	310	285	243	225	160	201	82	125	75	16	155	232	90	18	79	1001 - 061

Yatay Dikey Döner Tabla



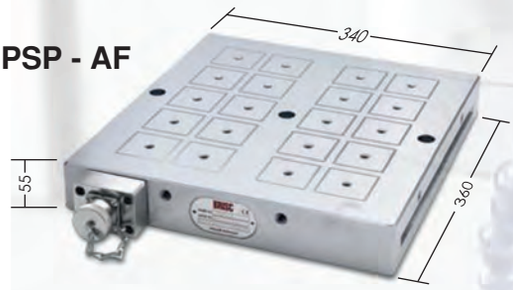
- HV Tip döner tablalar yatay ve dikey kullanılabilir.
- Skala takibi ile dairesel olarak 360° dönebilir.
- Kol bir tur çevrildiğinde 4° dönmektedir.
- Kol 90 tur çevrildiğinde 360°'i tamamlamış olur.
- Dişli oranı 90:1



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

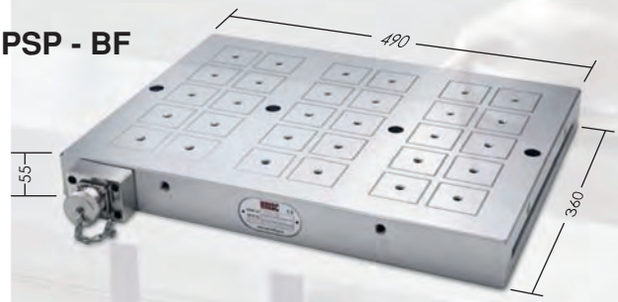
Elektromanyetik Tabla

PSP - AF



- Ayna Boyutu : 340 x 360 x 55 mm
- Kutup Sayısı : 20
- Ağırlık : 50 kgs
- Kontrol Ünitesi : CUA
- Sıkma Kuvveti : 70 kN

PSP - BF



- Ayna Boyutu : 490 x 360 x 55 mm
- Kutup Sayısı : 30
- Ağırlık : 72 kgs
- Kontrol Ünitesi : CUA
- Sıkma Kuvveti : 100 kN

PSP - CF



- Ayna Boyutu : 640 x 360 x 55 mm
- Kutup Sayısı : 40
- Ağırlık : 95 kgs
- Kontrol Ünitesi : CUA
- Sıkma Kuvveti : 140 kN

Kontrol Ünitesi



Kaldıraç ve Pupuçlar





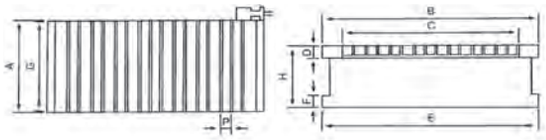
Elektoromanyetik tablalar farklı boyut ve şekillerdeki parçaları sıkıştırma işleme imkanı sağlar. Manyetik olarak kenetlenmiş parçaları kolay, güvenli ve daha hızlı işlemeye imkanı sunduğu gibi enerjiden de tasarrufu etmenizi sağlar

- Sabit değişmeyen bir kuvvet oluşturur.
- Mıknatıslı yüzeyine zarar vermeden delme olanığı sağlar
- Tüm parçanın kuvvetli bir şekilde sıkştırarak titreşim minimize eder.
- Büyük parçaları bile doğru ve kısa sürede sabitlemenizi sağlar.

Elektromanyetik Tablalar

VLZ - WEM V - WEM Z





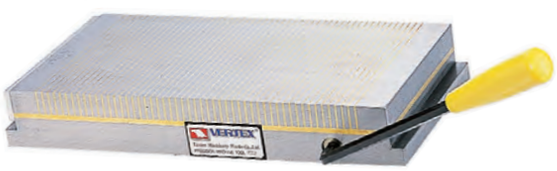
600 - 1200 Gaus

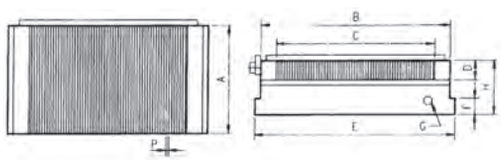
- VLZ tip ta•lama tezgahları için uygundur.
- VEM V tip küçük ve ince parçalarda taşlama tezgahı için uygundur.
- VEM Z tip çok güçlü CNC tezgahlarda kullanıbilir.
- Tamamının voltaj çıkışı DC 90 V dir.
- Kontrol panosu ile kullanılmalıdır.

MODEL	EBAT	TABLA ÖLÇÜSÜ			P	D	G	F	H	Kg	Kod	
		A	B	C								
VLZ 816	200 x 400	200	400	332	15 (3+12)	20	194	20	70	38	2015 - 224	
VLZ 1224	300 x 600	300	600	529	15 (3+12)	20	290	20	70	97	2015 - 227	
VEM 3060 W	300 x 600	300	600	520	4 (1+3)	25	246	20	100	135	2015 - 239	600 G
VEM 3060 Z	300 x 600	300	600	545	45 (10+35)	20	290	20	120	130	2015 - 259	1200 G

Manyetik Tablalar

VGF







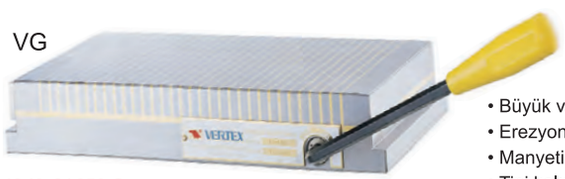
KONTROL ÜNİTESİ

19 Kgf / 680 Gaus

- Küçük ve ince parçalar için idealdir.
- Erezyon ve taşlama tezgahları için önerilir.
- Manyetik sıkma şekli kol iledir.
- Tipi ince çizgilidir.

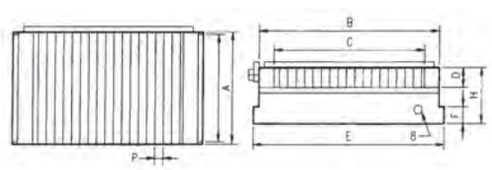
MODEL	EBAT	TABLA ÖLÇÜSÜ			P	G	E	F	H	Kg	Kod
		A	B	C							
VGF 1530 B	150 x 300	150	300	256	5 (1+4)	8	320	15	50	19	2015 - 162
VGF 2040 B	200 x 400	200	400	356	5 (1+4)	8	420	15	50	32	2015 - 165
VGF 2045 B	200 x 450	200	450	406	5 (1+4)	8	470	15	50	46	2015 - 166

VG



18 Kgf / 650 Gaus

- Büyük ve kalın parçalar için idealdir.
- Erezyon ve taşlama tezgahları için önerilir.
- Manyetik sıkma şekli kol iledir.
- Tipi kalın çizgilidir.



MODEL	EBAT	TABLA ÖLÇÜSÜ			P	G	E	F	H	Kg	Kod
		A	B	C							
VG 407	100 x 175	100	175	146	8 (2+6)	8	187	15	50	7	2015 - 110
VG 510	125 x 250	125	250	206	8 (2+6)	8	262	15	50	12	2015 - 111
VG 612	150 x 300	150	300	256	8 (2+6)	8	318	15	50	18	2015 - 112
VG 816	200 x 400	200	400	365	8 (2+6)	8	418	15	50	31	2015 - 115
VG 1020	250 x 500	250	500	456	8 (2+6)	8	518	15	50	48	2015 - 119

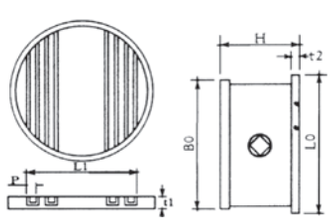
Manyetik Tabla Yuvarlak

VGD



18Kgf / 650 Gaus

- Yuvarlak manyetik tablalar taşlama tezgahlarında, erezyon tezgahlarında kullanıma uygundur.
- Küçük ve ince parçaları bağlamak için idealdir.
- Manyetik sıkma şekli kol iledir.



MODEL	B0	t1	L1	t2	L0	H	Kod
VGD 06	150	21	101	18	200	78	2015 - 150
VGD 08	200	21	137	18	200	78	2015 - 151
VGD 10	250	21	191	18	250	78	2015 - 152
VGD 12	300	21	227	18	305	78	2015 - 153

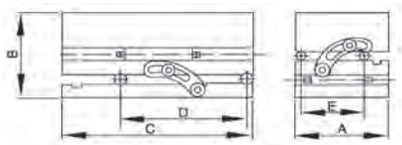
Dereceli Manyetik Tablalar

V - MSF



• Çift açılı manyetik tabla iki farklı derecede aynı anda çalışabilir.

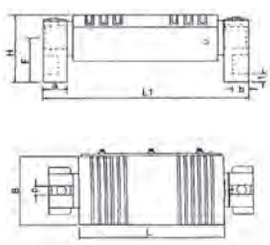
• Küçük ve ince parçalarda taşlama ve erezyon tezgahları için idealdir.



MODEL	A	C	B	P	Derece	Kod
V-66 MSF	150	150	122	2,5 (1+1,5)	0° - 60°	2015 - 071
V-612 MSF	150	300	122		0° - 60°	2015 - 072



VLU - VLV



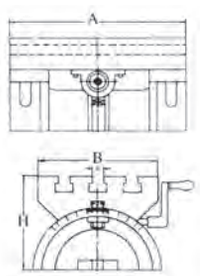
• VLU 612 B manyetik tipi kalın çizgili, manyetik sıkma şekli kol iledir.
• VLV 612 S manyetik tipi ince çizgili, manyetik sıkma şekli elektriklidir Pano ile kullanılmalıdır.
• Her iki tipde taşlama ve erezyon tezgahı için idealdir.

MODEL	B	L	P	H	L1	a	Derece	Kod
VLU 612 B	150	300	8,5 (2,5+6)	150	430	50	0° - 90°	2015 - 081
VLV 612 S	150	300	2,0 (1+1,5)	150	430	50	0° - 90°	2015 - 092

Sinüs Dereceli Tablalar

VP



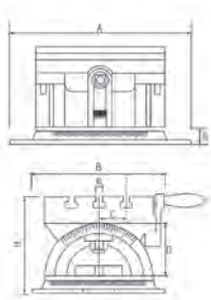


• Öne ve Arkaya ölçü cetveli ile 45° açı verilebilir.
• Kalıpçı freze ve CNC için uygundur.

MODEL	TABLA A	TABLA B	TABLA H	T Kanal	Kg	Kod
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

VP - S (Dereceli)





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

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

Manyetik Alıcılar



VDM 68



VDM 8 - VDM 11



VDM 9

- VDM 11 Güçlü masa tipi manyetik alıcıdır. Sürekli kullanıma uygundur.
- VDM 68 Güçlü masa tipi manyetik alıcıdır. Sürekli kullanıma uygundur.
- VDM 8 Ekonomik tip manyetik alıcıdır. İşi bittiği anda elektrik ile irtibatı kesilmelidir.
- VDM 9 Büyük ve taşınması zor kalıplar için idealdir. Isı derecesi yükseldiğinde elektrik akımını keserek devreden çıkar.

MODEL	Ölçüler	Kapasite	Yüks.	Kg
VDM 11	200 x 280	550 VA	130	15
VDM 68	150 x 200	330 VA	100	8,5
VDM 8	160 x 110	210 VA	100	5
VDM 9	123 x 83	110 VA	83	1,8

Manyetik Seperatör

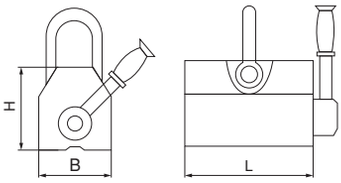


MODEL	Boy x En x Yüks.	Kg	Kod
VMS 7 B	180 x 170 x 75	2,7	2015 - 450
VMS 9 B	239 x 220 x 65	4,0	2015 - 451

• Manyetik seperatörler plastik enjeksiyon makinalarının ham madde giriş bölümüne monte edilip, plastik içerisindeki metal parçaları üzerine çekerek hammaddeden ayrışarak temizlenmesini

Manyetik Kaldıraç

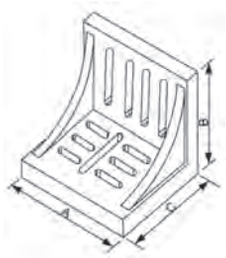




Max. Güç kg	B	L	H	kg
100	82	100	80	5.5
300	105	175	100	11.5
600	140	225	125	26.5
1000	160	280	155	48
2000	210	360	185	80
3000	286	435	245	180
5000	316	540	295	380

Tezgah Gönyesi



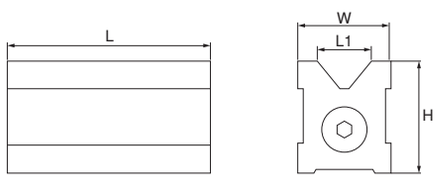


- Yüksek kaliteli sfero dökümden imal edilmiştir.
- Yüzeyler hassas taşlanmış ve sertleştirilmiştir.
- 0,01 hassasiyete sahiptir.

MODEL	YÜZEY ÖLÇÜLERİ			Kg	Kod
	A	B	C		
VR 6	150	126	115	3,5	1013 - 010
VR 8	202	150	126	7	1013 - 011
VR 10	250	202	126	12	1013 - 012
VR 12	300	228	202	25	1013 - 013

Manyetik V Yatak





H	W	L	L1	Çekme Kuvveti (kg)	kg
72	65	70	45	90	1.5
95	70	100	50	145	3.5

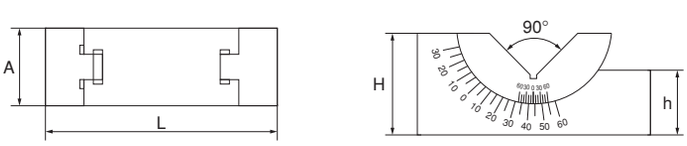
Paralel V Yatak (Çiftli)



Genişlik	Uzunluk	Yükseklik	kg
44	35	41	1.2
70	41	44	1.9

Ayarlanabilir V Yatak

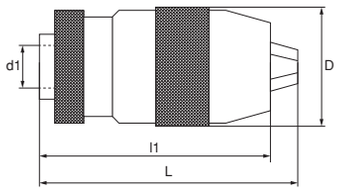




A	L	h	H	kg
30	102	28	48	0.9

Elle Sıkmalı Mandren

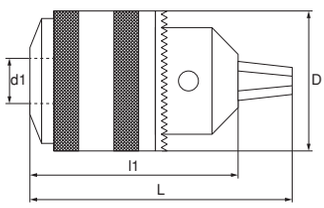




Sıkma Kapasitesi (mm)	Bağlantı Tipi d1	Dış Çap (mm) D	Kapalı Boy (mm) L	Açık Boy (mm) l1	Max. Salgı (mm)
0 - 10	B 12	35	78	71	0.07
1 - 13	B 16	42	96	87	0.07
1 - 16	B 16	49	112	103	0.07
1 - 16	B 18	49	112	103	0.07
5 - 20	B 22	55	131	122	0.07

Anahtarlı Mandren DIN 6349

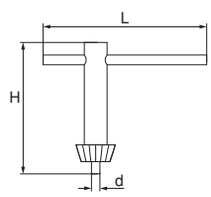




Sıkma Kapasitesi (mm)	Bağlantı Tipi d1	Dış Çap (mm) D	Kapalı Boy (mm) L	Açık Boy (mm) l1	Anahtar Kodu
1 - 16	B 16	56	100	80	S 3
1 - 16	B 18	56	100	80	S 3
1 - 20	B 22	65	114	92	S 4
1 - 26	B 24	80	150	120	S 4

- Endüstriyel hizmet için belirlenen standart ölçülerdedir.
- Darbelere ve ağır iş ortamına dayanıklıdır.
- Sağ ve sol yönlü olarak emniyetle kullanılabilir.
- Anahtarı ile birlikte teslim edilir.

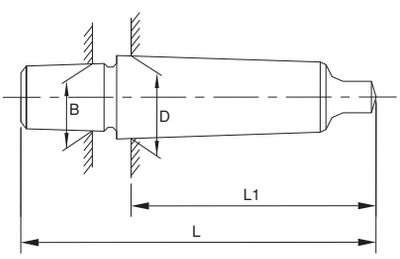




Anahtar Kodu	H (mm)	L (mm)	d (mm)
S 3	50	90	8
S 4	54	110	9

Mandren Sapı DIN 238



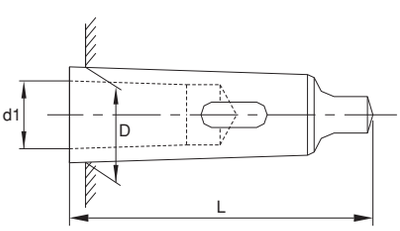


Mandrenlerin en az salgı ile tezgaha bağlanabilmelerini sağlar.
Komple sertleştirilip taşlanmıştır.
Konikler arası max. salgı: 0.01 mm

MK	Konik	B (mm)	D (mm)	L1 (mm)	L (mm)
MK 1	B 10	10.095	12.065	62	86
MK 1	B 12	12.065	12.065	62	89
MK 2	B 10	10.095	17.780	75	103
MK 2	B 12	12.065	17.780	75	106
MK 2	B 16	15.733	17.780	75	110
MK 2	B 18	17.780	17.780	75	117
MK 3	B 12	12.065	23.825	94	125
MK 3	B 16	15.733	23.825	94	133
MK 3	B 18	17.780	23.825	94	140
MK 3	B 22	21.793	23.825	94	147
MK 3	B 24	23.825	23.825	94	158
MK 4	B 16	15.733	31.267	117.5	158
MK 4	B 18	17.780	31.267	117.5	168
MK 4	B 22	21.793	31.267	117.5	175
MK 4	B 24	23.825	31.267	117.5	185

Mors Kovanı DIN 2185





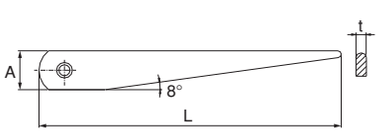
Mors konik şaftlı takımların tezgahlara veya birbirlerine en az salgı ile bağlanmalarını sağlayan adaptördür.
Komple sertleştirilip taşlanmıştır.
Dış ve iç konik arasındaki max. salgı: 0.01 mm

Dış Konik	İç Konik	D (mm)	d1 (mm)	L (mm)
MK2	MK1	17.780	12.065	92
MK3	MK1	23.825	12.065	99
MK3	MK2	23.825	17.780	112
MK4	MK1	31.267	12.065	124
MK4	MK2	31.267	17.780	124
MK4	MK3	31.267	23.825	140
MK5	MK1	44.399	12.065	156
MK5	MK2	44.399	17.780	156
MK5	MK3	44.399	23.825	156
MK5	MK4	44.399	31.267	171
MK6	MK5	63.348	44.399	218

Mors Kaması DIN 317

Sertlik: 35 ±2 HRC





İlgili Konik	A (mm)	L (mm)	t (mm)
MK1 / MK2	20	140	5
MK3	25	190	7
MK4	30	225	10

Büyüteçli Lamba



KOD	AĞIRLIK (kg)
VHL-30TEB	3.5
VHL-30MEB	2.9
VHL-30LEB	2.9

Tezgah Lambaları



KOD	KOL UZUNLIĞI L x	AĞIRLIK (kg)
VHL-300L	430x400	2.4
VHL-300M	250x200	2.1
VHL-300S	1 DİRSEK	2.3

Manyetik Tabanlı Ürünler (Manyetik Ayaklar)





Matkap ve Freze Bileme Makinesi



Ölçü	:	330 x 175 x 208
Freze Bileme Aralığı	:	Ø3 ~ Ø20
Freze Bileme Açısı	:	0° ~ 5°
Matkap Bileme Aralığı	:	Ø2 ~ Ø20
Matkap Bileme Açısı	:	90° ~ 140°
Voltaj	:	AC110 / AC220V
Hız	:	6.000 Rpm
Çanak Taş	:	SD/CBN
Ağırlık	:	15 kg.

Freze Bileme ve Kesme Makinesi



Ölçü	:	370 x 195 x 210
Freze Bileme Aralığı	:	Ø3 ~ Ø20
Freze Bileme Açısı	:	0° ~ 3°
Voltaj	:	AC110 / AC220V
Hız	:	6.000 Rpm
Çanak Taş	:	SD/CBN
Ağırlık	:	15 kg.

Matkap Bileme Makinesi



Ölçü	:	450 x 270 x 190
Matkap Bileme Aralığı	:	Ø2 ~ Ø32
Matkap Bileme Açısı	:	90° ~ 140°
Voltaj	:	AC110 / AC220V
Hız	:	6.000 Rpm
Çanak Taş	:	SD/CBN
Ağırlık	:	24 kg.

Kesme Makinesi



Ölçü	:	315 x 175 x 195
Kesme Aralığı	:	Ø2 ~ Ø20
Voltaj	:	AC110 / AC220V
Hız	:	6.000 Rpm
Kesme Taşı	:	SD/CBN
Ağırlık	:	10 kg.

Universal Bileme Makinası



Devir Hızı : 3600 d/dk.
Motor Gücü : 1.3 Hp 220V 50/60 Hz.
Çanak Taş : 100x20
Ağırlık : 45 kg.

U2-E Freze Bileme Aparatı



U2-L Torna K. Bileme Aparatı



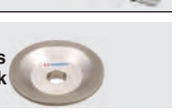
U2-T Matkap Bileme Aparatı



U2-P Pens



U2-D Elmas Çanak Taşı



Pah Kırma Makinaları (Taşlı) VCF 500 W



Köşe Radüs : 45°
Devir : 3500 Rpm
Pah Kapa. : 0-3
Motor : 220W

Pah Kırma Makinaları (Zımparalı) VCF 500 F



Köşe Radüs : 45°
Devir : 3500 Rpm
Pah Kapa. : 0-3
Motor : 220W

Pah Kırma Makinaları (Elmas Uçlu) VCF 500



Köşe Radüs : 15° - 45°
Devir : 3500 Rpm
Pah Kapa. : 0-3
Motor : 220W

El Tipi Pah Kırma VCF 600



Köşe Kırma Elmas Uç

Köşe Radüs : 45°
Devir : 12000 Rpm
Pah Kapa. : 0-3
Kg : 3,70

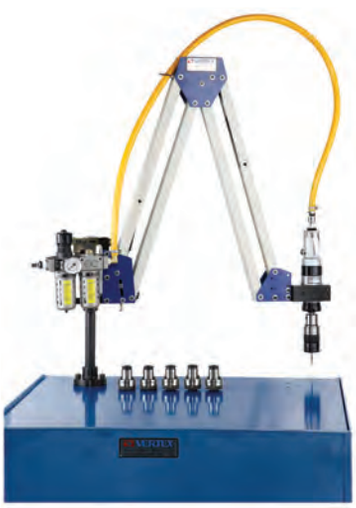
Hidrolik Kılavuz Çekme Makinası



- M5 - M36 Kılavuz çekme kapasitesi
- Kolay kullanım ve ergonomik yapı
- Güçlü konstrüksiyon
- Piston sertlik ayarı
- Devir ayarı
- 2050 mm yarıçapında çalışma alanı
- Hızlı kılavuz değiştirme özelliği
- Dikey, yatay kılavuz çekebilme özelliği
- Taşınması zor, büyük makina gövdelerine kılavuz çekebilme
- Farklı uygulama alanları (Raybalama,perçinleme, kalıpçı taşlama, havşalama, pafta çekme, çoklu kılavuz çekme vs...)

Kılavuz Kapasitesi	Güç (kw)	Hız(rpm)	Çalışma Basıncı (bar)	Ağırlık (kg)
M5-M16	3	0-600	60-100	200
M5-M24	3	1.Kademe:0-150 2.Kademe:0-600	60-100	225
M5-M36	5.5	0-100	60-120	150

Havalı Kılavuz Çekme Makinası



KOD	KAPASİTE	DEVİR (rpm)	AĞIRLIK (kg)	ÇALIŞMA MESAFESİ
VAT-1608	M2~M8 TC-312	700	16.9	Rmax 1600mm Rmin 500mm
VAT-1612	M3~M12 TC-312	400	17	Rmax 1600mm Rmin 500mm
VAT-1616	M3~M16 TC-820	250	21.1	Rmax 1600mm Rmin 500mm
VAT-1908	M2~M8 TC-312	700	19.7	Rmax 1900mm Rmin 200mm
VAT-1912	M3~M12 TC-312	400	23.9	Rmax 1900mm Rmin 200mm
VAT-1916	M3~M16 TC-820	250	23.5	Rmax 1900mm Rmin 200mm
VAT-1920	M3-M20	180/200	26	Rmax 1900mm Rmin 200mm
VAT-1922	M3-M22	185/205	26	Rmax 1900mm Rmin 200mm
VAT-1924	M3-M24	90/100	28	Rmax 1900mm Rmin 200mm

Kılavuz Çekme Başlıkları



KOD	KAPASİTE	DEVİR (rpm)	ÇALIŞMA MESAFESİ
VAT-SP08	M3-M8	630/700	Ø38.5 (1 1/2")
VAT-SP12	M3-M12	350/400	Ø38.5 (1 1/2")
VAT-SP16	M3-M16	230/250	Ø61.3 (2 13/32")
VAT-SP20	M3-M20	180/200	Ø61.3 (2 13/32")
VAT-SP22	M3-M22	185/205	Ø61.3 (2 13/32")
VAT-SP24	M3-M24	90/100	Ø61.3 (2 13/32")

Koruyucu Kimyasal Ürünler

Kuvvetli Pas Sökücü Sprey

Özellikleri
Üstün özelliklere ve ileri teknolojiye sahip bir pas sökücüdür. Yüzeye çok iyi işleme özelliğine sahiptir. Sıkışmış cıvata ve somunları anında gevşetir.

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



400 Ml

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 Ml

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 Ml

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 dişlilerde, konveyör hatlarında, mafsal, 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 Ml

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 (Parlatma) Pastası

Özellikleri
Üretimdeki kalıplarımızın baskı öncesi ve sonrasında yüzeylerini temizler, talaş kaldırmaz. Sadece parlatır. Ayrıca tüm paslanmaz ürünlerde kullanılır.



Sun - Fix Kaynak Macun

Özellikleri
Yapıştırmada, sızdırmazlıkda, çatlak onarımında ve dolgu maddesi olarak kullanılır. Çift kompenantlı 3 saat kuruduktan sonra zımparalama, boyanabilir, delinebilir.



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, paslanmazda, 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 sıcağa 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. - 180ºC / + 1400ºC 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 süzüldükten sonra da defalarca kullanılabilir.

Kullanım Alanı
Daldırma erozyon tezgahlarında kullanılır.



30 - 60 Lt

Koruyucu - Yapıştırıcı Kimyasal Ürünler

Erektroerozyon Sıvıları

Özellikleri
Özel hidrokarbon bileşiklerinden oluşan su berraklığında, kokusuz ve saf ürünlerdir. Oksidasyona karşı son derece dayanıklı olduklarından yaşlanma mukavemetleri yüksektir, uzun bir çalışma ömrüne sahiptirler. Fizyolojik olarak tamamen zararsızdırlar.

Kullanım Alanı
İnce ve Kaba Pasolu Uygulamalar İçin Genel Amaçlı



50 - 170 Kg

Kesme Sıvıları

Özellikleri
özellikle alüminyum için dizayn edilmiştir. Aletlerin ömrünü uzatır ve tutukluk yapmasını önler, üretimi hızlandırır, maliyetleri azaltır ve yüzey rötuşlarını iyileştirir. Alüminyum üzerinde diş açma, delme, kılavuz çekme, yuva genişletme veya yüzey iyileştirme işlemlerinde güvenle kullanılabilir.

Kullanım Alanı
Paso verme işlemlerinde, testerelerde, tornada, kesme işlemlerinde, rayba salmada, oymacılıkta, matkapla delmede, taşlamada, şekillendirme işlemlerinde, metal kıvırma makinelerinde, diş açmada, delmede, yuva genişletmede, kılavuz çekmede.



473 Ml - 208 Lt

K1000 Kalıp Ayırıcı Sprey

Özellikleri
Kalıp ayırıcı ve yağlayıcı gazaltı kaynaklarında torc ucunda curuf bırakmaz, kaynakta sağlıklı devamlılık sağlar.
Karton plastik ve metal levhaların ayrılmasını sağlayan kaydırıcı bir maddedir.
Sıcakda yapılan kalıplama işleminde plastiğin yapışmasını önler.
Gıda sanayiinde makinaların az yağlanan kısımlarında özellikle plastik yataklarda kullanılır.



400 Ml

K2000 Kalıp Ayırıcı Sprey

Özellikleri
Yüksek ve düşük ısılarda mükemmel sonuç veren silikon bazlı ayırıcı malzemedir.
Plastik imalatında enjeksiyon makinalarında kullanılır malzemenin kalıba yapışmasını önler.
! Sıkıştırılmış gaz yanıcıdır.



400 Ml

Force 801 Süper (Japon) Yapıştırıcı

Özellikleri
Genel amaçlı, ekstra hızlı, çok düşük viskoziteli, alkali esaslı solvent içermeyen bir hızlı yapıştırıcıdır.
En kılcal boşluklara dahi nüfuz eder.
Plastik, metal ve kauçuk yüzeyleri ultra hızlı yapıştırır.

Kullanım Alanı
Plastik, metal, kauçuk, lastik, deri, keçe, vinil, mantar, kağıt, seramik, cam, sert ahşap, formika vb. kaplamalı yüzeyler tüm bu yüzeylerde kullanılabilir.



20 - 50 Ml

Force TL - 22 Civata Sabitleyici

Özellikleri
Yumuşak metal ve komponentlerde 1/4" (6 mm.) den küçük dişliler ve ayar gerektiren yerlerde kullanılan, tekrar sökülmesi kolay olan bir anaerobik yapıştırıcıdır.



10 - 250 Ml

Force TL - 43 Civata Sabitleyici

Özellikleri
Orta mukavemetli, sökülebilir, genel amaçlı anaerobik bir üründür.
Tüm cıvata ve somun boylarında kullanılabilir. Yapıştırıldıktan sonra damlama ve akma yapmaz.
Kolay uygulanabilir ve sızdırmazlık özelliğine sahiptir. Makine ayar cıvatalarında, hidrolik sistem cıvatalarında, rulman yataklarının cıvatalarında, taşıyıcı konveyör bant cıvatalarında kullanılır.



10 - 250 Ml

Force TL - 70 Civata Sabitleyici

Özellikleri
1"(25 mm.) ' e kadar cıvata, saplama ve somunların sökülmemesinin istendiği yerlerde kullanılır. Genel olarak motor saplamaları, su pompa kaplin bağlantıları ve beyaz eşya sanayiinde kullanılır.



10 - 250 Ml

Koruyucu - Yapıştırıcı Kimyasal Ürünler

RT-01 Rulman Kenetleyici

Özellikleri
Tek komponentli, düşük viskoziteli, hızlı oluşumlu bir üründür. Sert yüzeylerin tüm tiplerinde kullanılabilen bir kenetleyici olup mekanik bağlantıların daha da kuvvetli olması için kullanılır. Şaft çıkıntısı ile kamaları kilitler. Aşınmış bağlantılarda boşluğu alır. Rulmanları yerine kenetler, yerinden çıkmasını önler. Rotoru şafta kenetler; kovanı, gömlekleri yataklarına ve şaft üzerinde kenetler. Düşük viskozitesi sayesinde ince boşlukları doldurur ve hassas geçmelerde kullanılır.



10 - 50 - 250 ml

RT-20 Rulman Kenetleyici

Özellikleri
Silindirik metal parçaların birbirine geçmesinde kullanılan tek komponentli sabitleyicidir. Sertleşmesi, metallerin birbirine hava almayacak biçimde geçmesiyle olur. Genellikle aşınmış parçalarda ve yüksek toleranslı geçme istenen yerlerde kullanılır. Isı dayanımı 230 °C'dir. Rulmanların şaftların, silindirik parçaların ileride sökümün istenmediği yerlerde güvenle kullanılabilir. Yeşil renkte, yüksek mukavemetlidir. Yüksek ısı ile tekrar sökülmesi mümkündür.



10 - 50 - 250 ml

RT-38 Rulman Kenetleyici

Özellikleri
Tek komponentli, yüksek viskoziteli, yüksek mukavemetli bir üründür. Sert yüzeylerin tüm tiplerinde kullanılabilen bir kenetleyici olup mekanik bağlantıların daha da kuvvetli olması için kullanılır. Rulmanları yerine kenetler, aşınmış bağlantılarda boşluğu alır. Rotoru şafta kenetler. Kovanı, gömlekleri yataklarına ve şaft üzerinde kenetler.



10 - 50 - 250 ml

HP-42 Hidrolik ve Pnömatik Sızdırmazlık

Özellikleri
Düşük viskoziteli bir sızdırmazlık elemanıdır. Kolay uygulanabilen ve çapı 50 mm'ye kadar olan hidrolik ve pnömatik fittingslerde servomekanizmalarda kullanılan anaerobik bir üründür. Tam kuruduğundan büzüşmez. Yüksek basınca (700 bar), vibrasyona, solventlere, 150 °C'ye kadar ısıya, neme ve korozyona çok iyi dayanır.



10 50 250 ml
- - -

Genel Amaçlı Sprey - WD40

Özellikleri
Bu Sprey 5 işi bir arada yapar;korozyona karşı korur;pası çözer,yağlar,temizler ve tekrar kirlenmesini engeller.

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

200 ml WD40 - 400 ml WD40 - 5 lt WD40



BEST MP61 Kalıp Koruyucu

Özellikleri
Best® kalıp koruyucu yapışkan olmayan bir üründür ve korozyonu önler pas ve kirlenmeye karşı uzun süreli koruma sağlar. Bu balmumu bazlı koruyucu ürün tüm alanalara nüfus eder ve kalıpların yerleştirmesi esnasında kolaylık sağlar. Berrak opak benzeri rengi ile etki alanını belirlemenizde yardımcı olur. Gerekli olan şey ince bir tabaka...



Würth Balata Temizleme Spreyi

Özellikleri
Taşıtlar, diskli ve kampanalı frenler, motor ve şanzıman gövdeleri vs. gibi yerlerde yağlı/gresli artıkların, kurumun, fren tozunun hızlı bir şekilde giderilmesin kullanılır. Kurum, yağ, fren tozları ve yağlı artıkların hızlı ve efektif uzaklaştırılmasını sağlar. Hızlı havalanma özelliği ve yüksek temizleme performansı. Artık bırakmaz. AOX ve silikon içermez. Aseton içermez.



Würth HHS 2000

Özellikleri
Çok yüksek basınçlara dayanıklı, kısmen sentetik yağ Yüksek basınca dayanıklı Mükemmel ses ve titreşim emici, sıradışı yırtılmaya dayanıklı şerit tabaka. Nüfuz etme özelliği, Dar toleranslarda çok iyi yağlama özelliğine sahiptir. Bu sayede korozyona karşı güvenilir koruma sağlar. Silikon, reçine ve asit içermez. Uygulama ısı aralığı -35°Cile +180 °C arası k ısa süre için +200 °C'ye kadar



Koruyucu - Yapıştırıcı Kimyasal Ürünler

LPS TKX
Genel Amaçlı Pas Çözücü

Özellikleri

TKX genel amaçlı, nüfuz edici, yağlayıcı ve koruyucu bir üründür. Nem ile yer değiştirerek yüzeyden nemi atar. Pastan kitlenmiş parçaları çözer ve korozyona karşı korur. TKX özellikle kablo, şanzıman ve zincirler için mükemmel bir yağlayıcıdır. TKX cihazlar ve makineler üzerinde kurumayan, yağlı bir film tabakası oluşturur. TKX'in alev alma derecesi yüksektir (79°C). Parlamanın potansiyel tehlike olabileceği yerlerde ideal üründür. TKX klorlu solventler veya silikon içermez, pek çok yüzey de güvenle kullanılabilir.



360 ml

LPS HDX
Ağır Şartlar İçin Temizleyici

Özellikleri

LPS HDX yanıcı olmayan, hızlı etki eden, parçalar ve cihazlar üzerindeki en zor kirleri dahi temizleyebilen bir solventtir.
Yağ, gres, balmumu, kir, nem, katran, fren hidrolik yağı ve diğer kirleri hızla temizler. HDX hızlı buharlaşır ancak artık madde bırakmaz.
Yanıcılığın potansiyel problem olabileceği her uygulamada HDX ideal üründür.



360 ml

LPS 1
Kuru Film Yağlayıcı - Su, Nem Kovucu

Özellikleri

LPS 1 özel formülü sayesinde kuru, ince ve yağlayıcı bir film tabakası oluşturur. En derin yarıklara dahi dakikalar içerisinde nüfuz eder. Yağa karşı dirençlidir, toz ve kirin yeniden oluşumuna karşı direnir. Nemle yer değiştirdiğinden özellikle elektrikli/ elektronik cihaz ve parçalardaki nemi giderir ve kuru bir yüzey oluşturur. LPS 1 parça ve cihazlardan yağı ve kiri uzaklaştıran özel maddeler içerir. LPS 1 klorlu solvent içermez. Bu yüzden kauçuk, boya ve plastikler üzerinde güvenle kullanılabilir. LPS 1'de itici gaz olarak yanıcı olmayan karbondioksit kullanılmıştır.



360 ml

LPS 2
Endüstriyel Amaçlı Yağlayıcı

Özellikleri

LPS-2 Çabuk etki gösteren, derinlemesine nüfuz ederek yağlama ve koruma yapabilen bir üründür. LPS-2 hafif yağlı bir film tabakası oluşturur. İç ve dış mekanlardaki ekipmanlarda kullanılabilir. Hızlı nüfuz etme özelliği sayesinde ulaşılması e zor noktalara erişir ve kitlenmiş civata-somun vida ve diğer parçaları çözer. LPS-2 iç mekanlarda yer alan ekipmanları 1 yıl ve daha fazla süre korozyona karşı korur. LPS-2 zararlı klorlu solvent içermez ve kumaş, kauçuk, boya ve plastiklerde güvenle kullanılabilir. LPS-2'de itici gaz olarak yanıcı olmayan karbondioksit kullanılmıştır.



360 ml

LPS TAPMATIC TriCut
Metal Kesme Sıvısı

Özellikleri

Düzenli olarak hem soğutma hem de yağlama yapan bir kesme sıvısıdır. Sürtünmeyi azaltır ve özellikle diş açmada, delmede, yuva genişletmede ve kılavuz çekmede çıkan talaşların tekrar kaynamasını önler. Ekstra performans sağlayan özel katkıları sayesinde aletlerin ömrünü uzatır ve işlerinizin temiz bitmesini sağlar. Su ve etkisiz dolgu maddeleri içermez. Bilinen kesme sıvılarına göre daha az sarfedilir. Çeliğin tüm tipleri için idealdir. Özellikle paslanmaz çelik ve titanyum gibi sert metaller ve alaşımları için geliştirilmiştir. Her türlü diş açma, delme, kılavuz çekme, yuva genişletme, torna ve kesme işlemlerinde kullanılabilir. Alüminyum ve sarı metallerde kullanılması tavsiye edilmez.



473 ml

LPS TAPMATIC Dual Action
Alüminyum Kesme Sıvısı

Özellikleri

LPS Tapmatic Dual Action Plus #2 kesme sıvısı özellikle alüminyum için dizayn edilmiştir. Aletlerin ömrünü uzatır ve tutukluk yapmasını önler, üretimi hızlandırır, maliyetleri azaltır ve yüzey rötuşlarını iyileştirir. Alüminyum üzerinde diş açma, delme, kılavuz çekme, yuva genişletme veya yüzey iyileştirme işlemlerinde güvenle kullanılabilir. Alüminyum ve alaşımların işlenmesinde maksimum basınçlarda dahi mükemmel yağlama sağlar. Sürtünmeyi azaltır, işlem esnasında açığa çıkan talaşların kesici takımlara ve yüzeye sarmasını engeller.



473 ml

PS 77 Boru Sızdırmazlık Elemanı
TEFLON KATKILI

Özellikleri

Yüksek viskoziteli sızdırmazlık ürünü olan PS-77 kolay uygulanabilen ve ilk uygulandığında dahi 7 bar basınca dayanıklı bir üründür.
Solvent içermez, damlamaz. Tam kurumada 700 bar basınca dayanır.
Anaerobik olarak sızdırmazlık sağlar.
Kullanımdan sonra geçen uzun süreye, sarsıntıya ve vibrasyona karşı dayanıklılığını ve sızdırmazlığını korur. Her türlü sıvı, yağ, gres ve birçok kimyasalın geçtiği boru dişlilerinde ve yaygın olarak basınçlı kaplarda, hava kompresörlerinde, hidrolik sistem ve tanklarda, vibrasyona karşı mukavemet gerektiren yerlerde kullanılır.



50 - 250 ml

GM-10 Yüksek Sıcaklığa
Dayanıklı Conta

Özellikleri

Kırmızı renkli, yüksek sıcaklığa dayanıklı, hızlı oluşum gösteren sıvı contadır. Tüm metal parçalarda sıvı conta olarak kullanılır. 200 °C'ye kadar sıcaklıkta sızdırmazlık görevi görür. Yüksek sıcaklıkta, her biçimde uygulama yapılabilir. Yağdan ve kirden arındırılmış temiz ve kuru yüzeylere elle, fırçayla ve tüple uygulanır. Yüzeye film kaplama şeklinde uygulanarak çatlaklar ve boşluklar doldurulur, yüzey düzgünleştirilir. Daha hızlı sertleşme isteniyorsa aktivatör kullanımı önerilir.



50 - 250 ml

Madeni Yağlar

Shell Tellus 37 Hidrolik Yağı



Özellikleri

Yüksek sıcaklıkların söz konusu olabileceği modern hidrolik sistemlerde termal kararlılığı çok yüksektir. Tellus hidrolikyağlar yüksek sıcaklıklarda dahi çamurumsu ürünler oluşturmayaraksistemde temiz ve güvenilir bir çalışma sağlar

Shell Gress Yağı



Özellikleri

Daha uzun rulman ömrü düşük bakım maliyeti Ağır çalışma koşulları çin uygunluk Kurşun içermez.Shell Alvania RT3, ağır yüklerin söz konusu olduğu durumlarda -20°C ile 120°C sıcaklık aralığında güvenle kullanılabilir.

Shell Dromus Bor Yağı



Özellikleri

Suyla karıştırıldığı zaman beyaz opak görünümlü emülsiyon meydana getiren bir kesme yağıdır. Dromus BA fenol nitrit içermez. Çok iyi rafine edilmiş baz yağlar, paslanmaya karşı koruma sağlayan ve yağlayıcı özelliği olan uygun bir katkı paketi ve emülsiyon yapıcı maddelerden oluşturulmuştur.

Mobil Vectra Oil No : 2 Kızak Yağı



Özellikleri

Günümüz yüksek verimli takım tezgahlarının gerektirdiği hassasiyet ve parça yüzey kalitesi gereksinimlerini tam olarak karşılayacak şekilde özel olarak tasarlanmış üstün kaliteli yağlardır. Yüksek kaliteli baz yağlar ve performansı dengelenmiş düşük sürtünme özelliği, korozyondan üstün koruma sağlar ince yağ filminde tuttu-kaydılı areketi ve sesi önler. soğutucu sıvıların yağlanan yüzeylerde yaptığı korozif etkiyi minimumda tutacak şekilde formüle edilmiştir.

Mobil Vectra Oil No : 4 Kızak Yağı



Özellikleri

Baz yağ ve katık paketi kızakların korunması için özenle seçilmiş ve aynı zamanda üstün filtre edilebilme özelliğine sahip olması sağlanmıştır. Bu husus, yağ akışının az olması veya yağ filtrelerinin tıkanması tuttu-kaydılı harekete ve sese yol açması, aşınmayı artırması nedeniyle önemlidir. Yağın yüzeye yayılması ve içerdiği yapışkanlık sağlayıcı katıklar, makine çalışmadığında kızak yüzeylerine gelen statik yükle aradan yağın kaçmasına karşı koymaktadır.

Mobil Rarus shc1000 Kompresör Yağı



Özellikleri

Serisi üstün performanslı yağlar esas olarak ağır hizmet rotari vidalı ve kanatlı hava kompresörlerini yağlama amacıyla geliştirilmiş bir seridir. Bu yağlar, özellikle mineral bazlı ürünlerin yüksek son kompresyon sıcaklıkları altındaki güç çalışma uygulamaları veya yağ değiştirme aralıklarının uzatılması taleplerini karşılayamadığı durumlar için uygundur

PO Kızak Yağı



Özellikleri

Her tip takım tezgahının yatay ve dikey kızaklarının yağlanmasında kullanılır. Önerildiği takdirde tezgâhların hidrolik sistemlerinde de kullanılabilirkesme yağları ve alkali maddelerin mevcut olduğu ortamlarda jel oluşumuna karşı dirençlidir.Yapışkan özellikte katık içermesi nedeniyle metal yüzeylere çok iyi yapışır, yağın sistemden sızmasını önler.Tezgâhın pürüzsüz, atlamasız ve titreşimsiz hareketini sağlar.Hassas tezgâhlarda küçük toleranslarda çalışma olanağı sağlar Aşınma ve korozyona karşı koruyucu özellikleri ile tezgâh ömrünü uzatır, bakım maliyetlerini düşürür.

PO Bor Yağı



Özellikleri

Çeşitli metallerin kesme ve taşlama işlerinde maksimum soğutma ve yağlama sağlayan, su ile emülsiyon yaparak kullanılan parafinik esaslı kesme yağlarıdır. Alüminyum ve bakır alaşımları, yumuşak çelik ve dökme demir gibi metallerin hafif ve ağır talaş kaldırma işlemlerinde ve alüminyum çubukların sıcak çekilmesinde yağlayıcı ve soğutucu olarak kullanılır.

Klora Kauçuklu Gress Yağı



Özellikleri

Kolay pompalanabilen, suya dayanıklı, pas ve oksidasyona karşı dirençli, üstün kaliteli greslerdir. Çalışma sıcaklığının çok yüksek olmadığı, orta devirli, normal yüklü, düz yataklarda, otomotiv tip ekipmanlarda, endüstriyel uygulamalarda, tarım ve yol makinelerinde genel gresleme işlerinde kullanmak için ideal greslerdir.

ES Serisi Makine Titreşim Tamponları



D (mm)	Civata	Civ. Boyu	h (mm)	Ayar Mes.	Taş. kg
80	M12 x 1.25	120	45	12	500
80	M16 x 1.5	120	45	12	500
80	M10 x 1.5	100	45	12	500
120	M16 x 1.5	120	45	15	1000
120	M12 x 1.25	120	45	15	1000
120	M16 x 2	120	45	15	1000
160	M16 x 1.5	120	54	15	2000
160	M20 x 1.5	170	55	15	4000
200	M20 x 2.5	170	55	25	5000
200	M24 x 3	170	55	25	6000
240	M20 x 2.5	170	65	25	7000
240	M24 x 3	170	65	25	8000
240	M30 x 3	170	65	25	9000

SL Serisi Makine Tamponları



D (mm)	Civata	Civ. Boyu	h (mm)	Ayar Mes.	Taş. kg
80	M12	100	32	8	300
80	M16	120	32	8	400
120	M12	100	35	12	700
120	M16	120	35	12	800
160	M12	120	40	12	1200
160	M20	150	40	12	1500

Döküm Tezgah Takozları



DF Serisi Civatasız

L (mm)	W (mm)	h (mm)	Ayar Mes.	Taşıma kg
100	50	45	8	1000
150	75	45	10	2000
200	100	55	10	3800
250	200	65	15	5000



DB Serisi Civatalı

L (mm)	W (mm)	h (mm)	Ayar Mes.	Taşıma kg
100	110	50	8	1600
150	150	55	10	3000
200	200	55	12	5000
250	250	70	15	6000

EK Serisi Kauçuk Bloklar



WxL (mm)	H (mm)	h (mm)	Taş. kg
100x100	20	1-5 kg/cm^2	500
100x100	30	1-6 kg/cm^2	500
120x120	20	1-5 kg/cm^2	750
120x120	30	1-6 kg/cm^2	750
150x150	20	1-5 kg/cm^2	1125
150x150	30	1-6 kg/cm^2	1125
125x200	20	1-5 kg/cm^2	1250
125x200	30	1-6 kg/cm^2	1250
300x300	13	1-3 kg/cm^2	4000
300x300	20	1-5 kg/cm^2	4000

ESM Serisi Makine Titreşim Tamponları



D (mm)	h (mm)	Taşıma kg
80	40	500
120	40	1000
160	40	2000
200	50	4000

SL Serisi Kare Makine Ayakları



LxL (mm)	M	Civ. Boyu	h (mm)	Ayar Mes.	Taş. kg
60x60	M12	100	35	10	300
70x70	M12	100	32	6	400

EM Serisi Çift Mafsallı Makine Ayakları



D (mm)	M	L (mm)	L1 (mm)	h (mm)	Taş. kg
40	M8x45	75	45	30	100
40	M10x60	90	60	30	100
40	M12x60	90	60	30	100
60	M12x60	90	60	30	200
60	M16x60	90	60	30	200
80	M16x60	100	60	40	500
80	M16x110	150	110	40	500
80	M16x150	190	150	40	500
80	M20x110	150	110	40	600
100	M16x60	100	60	40	800
100	M16x110	150	110	40	800
100	M16x150	190	150	40	800
100	M16x200	240	200	40	800
100	M20x110	150	110	40	1000
100	M20x150	190	150	40	1000
100	M20x200	240	200	40	1000
120	M16x110	152	110	42	1200
120	M16x150	192	150	42	1200
120	M20x110	152	110	42	1200
120	M20x150	192	150	42	1200
120	M20x200	242	200	42	1200

EML Serisi Çelik Tabanlı Denge Ayakları



D (mm)	M	L (mm)	L1 (mm)	h (mm)	Taş. kg
120	M16x100	100	30	90	1000
120	M16x150	150	30	90	1000
120	M20x100	100	32	90	1500
120	M20x150	150	32	90	1500

Plastik Makine Çarkları

EPV Serisi



D (mm)	H (mm)	Göbek Çap	Kol Yuvası
100	40	30	M6
125	50	40	M6
150	60	50	M8
175	65	50	M10
200	70	50	M10

EPV2 Serisi



D (mm)	H (mm)	Göbek Çap	Kol Yuvası	Döner Kol
100	40	30	M6	PDS 11
125	50	40	M6	PDS 11
150	60	50	M8	PDS 12
175	65	50	M10	PDS 13
200	70	50	M10	PDS 13

ESK - ESB Serisi Spiral Hortum





Kod	Renk	Ağız	Uzunluk L(mm)	Bağlantı
ESK	Orange	O	300	1/4
ESB	Orange	O	400	3/8
ESK G	Orange	V	300	1/4
ESK G	Orange	V	400	3/8
ESB1/2	Orange	O	400	1/2
ESB1/2G	Orange	V	400	1/2
Musluk	ESK			

TP Serisi Bakalit Küre



D (mm)	M	d (mm)
25	M6	10
25	M8	14
30	M6	10
30	M8	14
30	M10	16
35	M6	10
35	M8	14
35	M10	16
40	M8	14
40	M10	16
40	M12	20

KE Serisi Bakalit Kelebek

Dişi



Civatalı



D (mm)	M	d (mm)
30	M6	26
30	M8	26
40	M6	29
40	M8	29
40	M10	29
50	M8	32
50	M10	32
50	M12	32
63	M8	38
63	M10	38
63	M12	38
70	M10	40
70	M12	40

EVS Serisi Metal Katlanır Kollar



d (mm)	L (mm)	D (mm)
M6	50	20
M8	65	22
M10	70	24

Döner Kollar



PDS Serisi Plastik Kollar

D (mm)	h (mm)	d (mm)
M6	50	21
M8	60	22
M10	70	23
M12	70	23



ADS Serisi Metal Kollar

D (mm)	h (mm)	d (mm)
M6	45	19
M8	55	19
M10	75	24
M12	85	24

SMT Serisi Turuncu Sustalı Kollar

Dişi Sustalı Kollar



D (mm)	R (mm)	L (mm)	H (mm)
45	M5	10	36
45	M6	10	36
60	M6	12	40
60	M8	12	40
60	M10	12	40
60	M12	12	40
80	M6	12	45
80	M8	12	45
80	M10	12	45
80	M12	12	45
100	M12	20	55
100	M14	20	55
100	M16	20	55

Civatalı Sustalı Kollar



D (mm)	R (mm)	L (mm)	H (mm)
45	M5x15	15	36
45	M5x30	30	36
45	M6x15	15	36
45	M6x30	30	36
60	M6x30	30	40
60	M6x50	50	40
60	M8x30	30	40
60	M8x50	50	40
60	M10x30	30	40
60	M10x50	50	40
60	M12x30	30	40
60	M12x50	50	40
80	M6x30	30	45
80	M6x50	50	45
80	M8x30	30	45
80	M8x50	50	45
80	M10x30	30	45
80	M10x50	50	45
80	M12x30	30	45
80	M12x50	50	45
100	M12x30	30	55
100	M12x50	50	55
100	M14x40	40	55
100	M14x60	60	55
100	M16x40	40	55
100	M16x60	60	55

Havalı Sökme ve Sıkma - 1/2" IW - 3C6



Gövde Materyali	: Compozite
Soket Tutucu	: 1/2"
Max.Sıkma Torku	: 1200 nm (120 kg)
Darbe Mekanizması	: Çift Çekiç
Boşta Devir	: 7500 rpm
Standart Civata Ölç.	: 19 mm
Uzunluk	: 185 mm
Ağırlık	: 2.1 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölç.	: 10 mm
Hava Tüketimi	: 184 - 1/min

Havalı Sökme ve Sıkma - 3/8" IW - 3C3



Gövde Materyali	: Compozite
Soket Tutucu	: 3/8"
Max.Sıkma Torku	: 402 nm (46 kg)
Darbe Mekanizması	: Çift Çekiç
Boşta Devir	: 12000 rpm
Standart Civata Ölç.	: 16 mm
Uzunluk	: 150 mm
Ağırlık	: 1.2 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölç.	: 10 mm
Hava Tüketimi	: 169 - 1/min

Havalı Matkap 10 mm D10 - 1C



Gövde Materyali	: Compozite
Mandren Kapasitesi	: 10 mm
Mandren Tipi	: Anahtarsız
Mekanizma	: Standart
Diş Tipi	: 3
Boşta Devir	: 1800 rpm
Uzunluk	: 170 mm
Ağırlık	: 0.94 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölç.	: 10 mm
Hava Tüketimi	: 114 - 1/min

Havalı Matkap 90 Derece 10 mm DA - 10



Gövde Materyali	: Alüminyum
Mandren Kapasitesi	: 10 mm
Mandren Tipi	: Anahtarlı
Mekanizma	: Standart
Diş Tipi	: 3
Boşta Devir	: 1900 rpm
Uzunluk	: 193 mm
Ağırlık	: 0.90 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölç.	: 10 mm
Hava Tüketimi	: 113 - 1/min

Havalı Sökme ve Sıkma Seti - 1/2" IW 3C6K



Set İçeriği	
1/2” 9 mm Lokma	: 1 adet
1/2” 9 mm Lokma	: 1 adet
1/2” 9 mm Lokma	: 1 adet
1/2” 9 mm Lokma	: 1 adet
1/2” 9 mm Lokma	: 1 adet
1/2” 9 mm Lokma	: 1 adet
1/2” 9 mm Lokma	: 1 adet
1/2” 9 mm Lokma	: 1 adet
1/2” 9 mm Lokma	: 1 adet
1/2” 9 mm Lokma	: 1 adet
LM-1 Mini Yağlayıcı	: 1 adet
125 mm 1/2” Uzatma	: 1 adet

Havalı Sökme ve Sıkma - 1/2" IW - 3C12



Gövde Materyali	: Alüminyum
Soket Tutucu	: 1/2"
Max.Sıkma Torku	: 325 nm (35 kg)
Darbe Mekanizması	: Jumbo Çekiç
Boşta Devir	: 8500 rpm
Standart Civata Ölç.	: 13 mm
Uzunluk	: 88 mm
Ağırlık	: 1.15 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölç.	: 10 mm
Hava Tüketimi	: 113 - 1/min

Havalı Düz Matkap 10 mm DS - 10



Gövde Materyali	: Alüminyum
Mandren Kapasitesi	: 10 mm
Mandren Tipi	: Anahtarlı
Mekanizma	: Standart
Diş Tipi	: 3
Boşta Devir	: 2600 rpm
Uzunluk	: 210 mm
Ağırlık	: 0.90 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölç.	: 10 mm
Hava Tüketimi	: 113 - 1/min

Havalı Kılavuz Çekme KC - 312



Gövde Materyali	: Alüminyum
Uç Kapasitesi	: M3 - M12
Mekanizma	: Standart
Boşta Devir	: 150 rpm
Uzunluk	: 200 mm
Ağırlık	: 1.90 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölç.	: 8 mm
Hava Tüketimi	: 184 - 1/min

Havalı Tornavida SD - 6



Gövde Materyali	: Alüminyum
Vidalama Kapasitesi	: 3 - 6 mm
Mekanizma	: Standart
Boşta Devir	: 1800 rpm
Uzunluk	: 178 mm
Ağırlık	: 1.10 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölçüsü	: 10 mm
Hava Tüketimi	: 113 - 1/min

Havalı Dikey Tornavida (Sağ - Sol) SDS-6



Gövde Materyali	: Alüminyum
Vidalama Kapasitesi	: 3 - 6 mm
Max.Sıkma Torku	: 1 - 3.5 mm
Mekanizma	: Standart
Boşta Devir	: 1500 rpm
Uzunluk	: 209 mm
Ağırlık	: 0.60 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölçüsü	: 10 mm
Hava Tüketimi	: 113 - 1/min

Havalı Orbital Zımpara S - 5G



Gövde Materyali	: Compozite
Vakum Tipi	: Merkezi
Max.Sıkma Torku	: 402 nm (46 kg)
Boşta Devir	: 10000 rpm
Mekanizma	: Standart
Orbital Hareket	: 5 mm
Ped Ölçüsü	: 150 mm
Uzunluk	: 186 mm
Ağırlık	: 0.94 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölçüsü	: 10 mm
Hava Tüketimi	: 128 - 1/min

Havalı Şerit Zımpara BS - 20



Gövde Materyali	: Compozite
Boşta Devir	: 20000 rpm
Mekanizma	: Standart
Uzunluk	: 520 mm
Ağırlık	: 0.90 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölçüsü	: 10 mm
Hava Tüketimi	: 110 - 1/min

Havalı Makas MS - 1



Gövde Materyali	: Compozite
Kesme Kapasitesi	: 1 mm
Mekanizma	: Standart
Boşta Devir	: 2600 rpm
Uzunluk	: 240 mm
Ağırlık	: 1.0 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölç.	: 8 mm
Hava Tüketimi	: 85 - 1/min

Havalı Perçin Tabancası RG - 3



Kullanılan Perçin	: Çelik
Hareket Uzunluğu	: 20 mm
Yükseklik	: 273 mm
Mekanizma	: Standart
Uzunluk	: 230 mm
Kul. Perçin Ölçüleri	: 3,2 - 6,4 mm
Çekme Gücü	: 10 Kn
Ağırlık	: 1.30 kg
Çalışma Basıncı	: 5 - 7 bar
Min. Hortum Ölçüsü	: 10 mm
Hava Tüketimi	: 220 - 1/min

Somunlu Perçin Tabancası RG - S4012



Gövde Materyali	: Compozite
Somun Takma Kap.	: M3 - M12
Stork	: 7 mm
Hava Basıncı	: 5 - 7 bar
Kuvvet	: 2969 kg
Hız	: 2000 devir/dk.
Titreşim	: 2.5 m/s^2
Ağırlık	: 2.46 kg
Min. Hortum Ölç.	: 10 mm
Hava Tüketimi	: 90 - 1/min

Havalı Zımba Tabancası S - 8016



Gövde Materyali	: Alüminyum
Zımba Uzunluğu	: 4-16 mm
Zımba Kapasitesi	: 157
Yükseklik	: 152 mm
Ağırlık	: 0.90 kg
Uzunluk	: 238 mm
Ağırlık	: 0.90 kg
Çalışma Basıncı	: 6.3 bar
Min. Hortum Ölçüsü	: 10 mm
Hava Tüketimi	: 173 1/min

Darbeli Matkap GSB 16 RE



Giriş Gücü	: 750 W	Tork	: 18.0 Nm
Boş. Dv. Say.	: 0-2800 d/dk.	Germe Aralığı	: 1.5-13 mm
Çıkış Gücü	: 380 W	Uzunluk	: 285 mm
Ağırlık	: 2.20 kg.	Yükseklik	: 214 mm

Kırıcı / Delici GBH 2-20D



Giriş Gücü	: 650 W	Devir Sayısı	: 0-1300 d/dk.
Darbe Gücü	: 1.7 J	Ağırlık	: 2.30 kg.

Akülü Delme / Vidalama GSR 14,4-2



Mandren Çapı:	1 / 10 mm	Şarj Süresi	: 60 dk.
Akü Gerilimi	: 14.4 V	Ağırlık	: 1.70 kg.

Taşlama Makineleri GWS 7-115 E



Giriş Gücü	: 720 W	Taş. Mili Dişi	: M 14
Boş. Dv. Say.	: 2800-11.000	Disk Çapı	: 115 mm
Çıkış Gücü	: 300 W	Ağırlık	: 1.90 kg.

Delik Taşlama GGS 28 LCE



Giriş Gücü	: 650 W	Ağırlık	: 1.60 kg.
Çıkış Gücü	: 380 W	Mil Boynu Çap	: 43 mm
Rölanti Devir Sayısı : 10.000 - 30.000 d/dk.		Uzunluk	: 375 mm
		Yükseklik	: 75 mm

El Motoru



Sıcak Hava Tabancası GHG 660 LCD



Giriş Gücü	: 2.300 W	Yükseklik	: 255 mm
Uzunluk	: 255 mm	Ağırlık	: 1.90 kg.

Akülü Saç Kesme GUS 10,8 V



Akü Gerilimi	: 10,8 V	Uzunluk	: 320,0 mm
Boş. Dv. Say.	: 700 d/dk.	Yükseklik	: 77,0 mm
Ağırlık	: 1.00 kg.		

Saç Kesme GSC 160



Giriş Gücü	: 500 W	Kesme Kapasitesi	: Çelik (400 N/mm²),maks.: 2,8 mm
Boş. Dv. Say.	: 5.000 d/dk.		
Çıkış Gücü	: 270 W	Ağırlık	: 2,7 kg

Bant Zımparalar GBS 75 AE



Bant Hızı	: 200-330 m/dk	Giriş gücü	: 750 W
Zım. Yüz. Gen.	: 75 mm	Çıkış gücü	: 410 W
Şerit, Uzunluk	: 533 mm	Ağırlık	: 3,4 kg.
Şerit, Genişlik	: 75 mm		

Lazerli Uzaklık Ölçer GLM 50



Lazer sınıfı	: 2	Genişlik	: 53 mm
Ölçme Aralığı	: 0.05-50 m	Yükseklik	: 32 mm
Uzunluk	: 115 mm	Ağırlık	: 0,14 kg

Çizgi Lazerleri GLL 2-80 P



Lazer sınıfı	: 2	Uzunluk	: 159 mm
Çalışma Ara.	: 20 m	Genişlik	: 54 mm
Alıcı ile Çal. Ar.	: 80 m (Çap)	Yükseklik	: 141 mm
Ağırlık	: 0,68 kg	Yönetme	: 2 x 360° eğizi

İki Ağız Açık Anahtar



Ağız Ölçüleri (mm)

04 x 05	11 x 14	16 x 17	21 x 23
06 x 07	12 x 13	17 x 19	22 x 24
08 x 09	12 x 14	18 x 19	24 x 26
08 x 10	13 x 14	18 x 20	24 x 27
10 x 11	14 x 15	18 x 22	25 x 28
10 x 12	13 x 17	19 x 22	27 x 32
10 x 13	14 x 17	20 x 22	30 x 32

Kombine Anahtar



Ağız Ölçüleri (mm)

5	12	19	26
6	13	20	27
7	14	21	28
8	15	22	29
9	16	23	30
10	17	24	32
11	18	25	34

Yıldız İki Ağız Anahtar



Ağız Ölçüleri (mm)

06 x 07	14 x 15	20 x 22	27 x 32
08 x 09	13 x 17	21 x 23	30 x 32
08 x 10	14 x 17	22 x 24	30 x 36
10 x 11	16 x 17	24 x 26	32 x 36
10 x 12	16 x 18	24 x 27	34 x 36
11 x 13	17 x 19	25 x 28	36 x 41
12 x 13	18 x 19	27 x 29	41 x 46
12 x 14	19 x 22	27 x 30	46 x 50

İki Ağız Açık Anahtar Takım



Ağız Ölçüleri (mm)

6 ' lı	6x7 - 8x9 - 10x11 12x13 - 14x15 - 16x17
8 ' li	6x7 - 8x9 - 10x11 - 12x13 14x15 - 16x17 - 18x19 - 20x22
10 ' lu	6x7-8x9-10x11-12x13-14x15 16x17-18x19-20x22-21x23-24x26
12 ' li	6x7-8x9-10x11-12x13-14x15-16x17 18x19-20x22-21x23-24x26-25x28-30x32

Kombine Anahtar Takım



Ağız Ölçüleri (mm)

6 ' lı	8 - 9 - 11 - 13 - 17 - 19
8 ' li	6 - 7 - 8 - 9 - 10 - 13 - 17 - 19
10 ' lu	8-9-10-11-12-13-14-17-19-22
12 ' li	8-9-10-11-12-13-14-15-16-17-19-22
17 ' li	6-7-8-9-10-11-12-13-14 15-16-17-18-19-20-21-22
21 ' li	6-7-8-9-10-11-12-13-14-15-16 17-18-19-20-21-22-24-27-30-32

Yıldız İki Ağız Anahtar Takım



Ağız Ölçüleri (mm)

6 ' lı	6x7 - 8x9 - 10x11 12x13 - 14x15 - 16x17
8 ' li	6x7 - 8x9 - 10x11 - 12x13 14x15 - 16x17 - 18x19 - 20x22
10 ' lu	6x7-8x9-10x11-12x13-14x15 16x17-18x19-20x22-21x23-24x26
12 ' li	6x7-8x9-10x11-12x13-14x15-16x17 18x19-20x22-21x23-24x26-25x28-27x32

Cırcır Kombine Anahtar



Ağız Ölçüleri (mm)

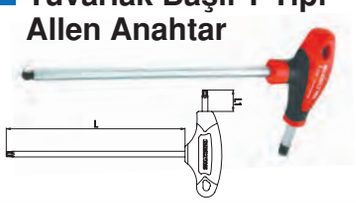
8	12	16	21
9	13	17	22
10	14	18	24
11	15	19	

Kurbağacık Anahtar



L Tam Boy (mm)	L Tam Boy inch	Ağız Açma (mm)
160	6”	18
208	8”	23
260	10”	28
308	12”	34
388	15”	43

Yuvarlak Başlı T Tipi Allen Anahtar



⬢ (mm)	L (mm)	L1 (mm)	⚖ (g)
2,5	110	14	20
3	125	17	23
4	140	20	45
5	155	23	58
6	170	26	100
7	185	30	125
8	200	34	150
10	220	40	235

Allen Anahtar Takım Altı Köşe



İçerik (mm)

2 - 2.5 - 3 - 3.5 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12

Topbaşlı Allen Anahtar Takım Altı Köşe



İçerik (mm)

2 - 2.5 - 3 - 3.5 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12

1/2” Cırcır Kolu (32 Diş)



L Tam Boy
250

1/2” Altı Köşe Lokma Anahtar



mm	mm	mm	mm
8	14	20	26
9	15	21	27
10	16	22	28
11	17	23	29
12	18	24	30
13	19	25	32

1/2” Lokmalı Allen Uç



mm	mm	mm	mm
4	6	8	12
5	7	10	14

1/2” Lokmalı Star (Torx) Uç



T20	T27	T40	T50
T25	T30	T45	T60

1/2” Torx Lokma



Ölçü	d1	d2	L
T25	10	25	78
T27	10	25	78
T30	10	25	78
T40	10	25	78
T45	10	25	78
T50	10	25	78
T60	10	25	78

1/2” Lokmalı Allen



Ölçü	d1	d2	L
4 mm	6	25	78
5 mm	6	25	78
6 mm	6	25	78
8 mm	11	25	78
10 mm	11	25	78
12 mm	11	25	78
14 mm	14	25	78
17 mm	16	25	78
19 mm	20	25	78

1/2” Havalı Uzun Lokma



8-9-10-11-12-13-14-15-16-17-18-19-20 21-22-23-24-25-26-2728-29-30-32-36

1/2” Uzatma Kolu



Ölçü
75 mm
125 mm
150 mm
200 mm
250 mm

1/2” Adaptör



Ölçü
F: 1/2” - M: 3/8” Adaptör
F: 1/2” - M: 3/4” Adaptör
1/2 Mafsallı Adaptör
1/2 Yedek Adaptör Karesi

Kraft Seri Düz Uçlu Tornavida



3 x 40	5 x 100	6 x 150	8 x 150
3 x 80	5 x 125	6 x 175	8 x 175
4 x 80	5 x 150	7 x 125	8 x 200
4 x 100	6 x 100	7 x 150	9 x 200
5 x 80	6 x 125	7 x 175	11 x 250

Düz Bits Uç



⊖	L (mm)	⚖(g)
0.6 x 4.5	25	5
0.8 x 5.5	25	5
1.2 x 6.5	25	5
0.6 x 4.5	50	10
0.8 x 5.5	50	10
1.2 x 6.5	50	10

Yıldız Bits Uç



⊕	L (mm)	⚖(g)
Ph1	25	5
Ph2	25	5
Ph3	25	5
Ph1	50	10
Ph2	50	10
Ph3	50	10

Kraft Seri Yıldız Uçlu Tornavida



3 x 60	4.5 x 150	6 x 200
4.5 x 80	6 x 100	8 x 150
4.5 x 100	6 x 150	10 x 200

Torx Uçlu Tornavida



✸	ø	L Tam Boy mm
T10	4	165
T15	4	165
T20	4	185
T25	4.5	185
T27	5	220
T30	6	220
T40	7	230
T45	8	230

Lokma Uçlu Tornovida



⬡ mm	L Tam Boy mm	⬡ mm	L Tam Boy mm
4	220	9	230
5	220	10	230
5.5	220	11	230
6	220	12	230
7	230	13	230
8	230	14	230

Kraft Seri Tornavida Seti 7 Parça



●	●
3x80-4x80-4x100 5x125-6x150	4.5 x 80 6 x 100

Elektronikçi Tornavida Seti 6 Parça



●	●
3x80-3x100 3x125-4x150	3 x 60 4 x 80

Lokma Uçlu Tornavida Seti 8 Parça



⬡
6 - 7 - 8 - 9 - 10 - 11 - 12 - 13

Elektrik Kontrol Kalemi



3 x 135	4 x 190

Kombine Pense Opak



L Tam Boy mm	L Tam Boy inch
160	6 1/4”
180	7 1/8”
200	8”

Uzun Kargaburnu Düz Uçlu Opak



L Tam Boy mm	L Tam Boy inch
140	5 1/2”
160	6 1/4”
180	7 1/8”
200	8”

Yan Keski Opak



L Tam Boy mm	L Tam Boy inch
140	5 1/2”
160	6 1/4”
180	7 1/8”

Elektronikçi Pense



L Tam Boy mm
110

Elektronikçi Düz Uçlu Kargaburun



L Tam Boy mm
130

Elektronikçi Yan Keski



L Tam Boy mm
115

Dış Segman Pensi Yaylı Düz



L Tam Boy mm	○
140	10 - 25
180	19 - 60
225	40 - 100
295	85 - 165

Dış Segman Pensi Yaylı Eğri



L Tam Boy mm	○
125	10 - 25
170	19 - 60
210	40 - 100
275	85 - 165

İç Segman Pensi Yaysız Düz



L Tam Boy mm	○
140	8 - 25
180	19 - 60
225	40 - 100
310	85 - 165

İç Segman Pensi Yaysız Eğri



L Tam Boy mm	○
130	8 - 25
170	19 - 60
210	40 - 100
290	85 - 165

Stilson Boru Anahtarı



L Tam Boy mm	L Tam Boy inch	Ağız Açma mm
200	8”	27
250	10”	34
300	12”	42
350	14”	50
450	18”	60
600	24”	76
900	36”	100

Maşalı Boru Anahtarı (85°)



L Tam Boy mm	L Tam Boy inch	Ağız Açma mm
325	1”	40
430	1 1/2”	60
585	2”	70
690	3”	100
760	4”	130

Universal Fort Pense



L Tam Boy mm	L Tam Boy inch	Ağız Açma mm
160	6 1/4”	30
240	9 1/2”	35
305	12 1/2”	40

Universal Ayarlı Pense



L Tam Boy mm	L Tam Boy inch	Ağız Açma mm
250	10”	30

Tenekeci Makası Yaylı



L Tam Boy mm	L Tam Boy inch
250	10”
300	12”

Madeni Yağdanlık



200 cc	300 cc	500 cc

Oluklu Levye



L Tam Boy mm	L Tam Boy inch
300	12”
400	16”
500	20”
600	24”

Kaportacı Makası



L Tam Boy mm	L Tam Boy inch
250	10”
275	11”
300	12”

Plastik Çekiç ve Yedeği



L (mm)	Ø (mm)	⚖(g)
300	30	345
320	40	645
350	50	1015

Plastik Tokmak



L (mm)	L1 (mm)	⚖(g)
300	105	575
305	115	670
310	125	796
325	135	1206
385	155	1505

Tesviyeci Çekici



L (mm)	L1 (mm)	⚖(g)
260	82	100
280	95	200
300	105	300
320	118	500
350	130	800
360	135	1000
380	145	1500
400	155	2000

Bakır Çekiç



⚖(g)
400

Gres Pompası



Kapasite	
300 cc	500 cc

Fırçalar



Hortum Kelepçeleri



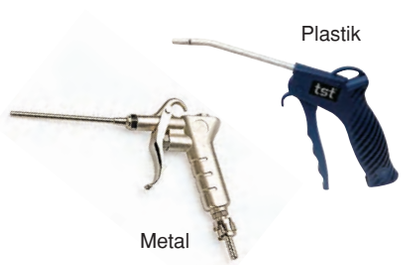
Anma	d	D
10 / 16	10	16
13 / 19	13	19
16 / 23	16	23
18 / 25	18	25

Spiral Hava Hortumu



Ölçü	d	D	Bağlantı Tipi
7.5 metre	5	8	1/4
15 metre	5	8	1/4

Hava Tabancası



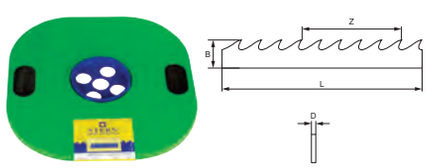
Ölçü	Bağlantı Tipi
Kısa	1 / 4
Uzun	1 / 4

Şerit Testereler



Genişlik x Kalınlık	Diş Sayısı											
	4	6	8	10	12	14	2/3	3/4	4/6	5/8	6/10	8/12
20 x 0.9		●	●	●	●	●		●	●	●	●	●
27 x 0.9	●	●	●	●		●	●	●	●	●	●	●
34 x 1.1	●	●					●	●	●	●	●	
41 x 1.3	●						●	●	●	●		
54 x 1.6							●	●				

Dekupaj Testeresi



B	Z / 25.4 mm	D	L / metre
6	10	0.65	30
6	14	0.65	30
8	10	0.65	30
8	14	0.65	30
10	10	0.65	30
10	14	0.65	30

El Testeresi ve Laması



Maket Bıçağı



Maket Bıçağı Ucu Küçük



Taşlama Gözlüğü



Mum Silikon Tabancası



Seyyar Makaralı Kablo



Ölçü (mm)
10 m 3 x 1.5 mm
25 m 3 x 1.5 mm
35 m 3 x 1.5 mm
50 m 3 x 1.5 mm
25 m 3 x 2.5 mm
35 m 3 x 2.5 mm
50 m 3 x 2.5 mm

El Fenerleri



Elektrod



Elektrik Bandı



Teflon Bant



Takım Çantası



13” - 16” - 19” - 21”

Silinmez Marker Kalem



Koli Bandı



Toz Maskesi



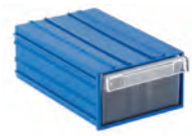
İş Eldiveni



İş Ayakkabıları

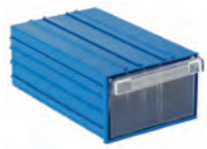


Plastik Çekmeceli Kutu 105



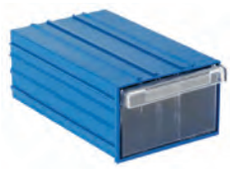
Ölçü	En	Boy	Yükseklik
Dış Ölçüleri	110 mm	170 mm	65 mm
İç Ölçüleri	96 mm	160 mm	54 mm

Plastik Çekmeceli Kutu 120



Ölçü	En	Boy	Yükseklik
Dış Ölçüleri	123 mm	200 mm	80 mm
İç Ölçüleri	112 mm	193 mm	71 mm

Plastik Çekmeceli Kutu 140



Ölçü	En	Boy	Yükseklik
Dış Ölçüleri	136 mm	230 mm	96 mm
İç Ölçüleri	125 mm	226 mm	86 mm

Plastik Çekmeceli Kutu 175



Ölçü	En	Boy	Yükseklik
Dış Ölçüleri	173 mm	230 mm	110 mm
İç Ölçüleri	161 mm	221 mm	101 mm

Plastik Avadanlık A 100



Ölçü	En	Boy	Yükseklik
Dış Ölçüleri	100 mm	163 mm	72 mm
İç Ölçüleri	78 mm	135 mm	69 mm

Plastik Avadanlık A 150



Ölçü	En	Boy	Yükseklik
Dış Ölçüleri	128 mm	204 mm	96 mm
İç Ölçüleri	103 mm	174 mm	94 mm

Plastik Avadanlık A 200



Ölçü	En	Boy	Yükseklik
Dış Ölçüleri	148 mm	255 mm	114 mm
İç Ölçüleri	128 mm	219 mm	112 mm

Plastik Avadanlık A 250



Ölçü	En	Boy	Yükseklik
Dış Ölçüleri	184 mm	304 mm	129 mm
İç Ölçüleri	157 mm	267 mm	126 mm

Plastik Avadanlık A 300



Ölçü	En	Boy	Yükseklik
Dış Ölçüleri	219 mm	368 mm	148 mm
İç Ölçüleri	186 mm	325 mm	145 mm

Plastik Avadanlık A 350



Ölçü	En	Boy	Yükseklik
Dış Ölçüleri	264 mm	434 mm	168 mm
İç Ölçüleri	230 mm	388 mm	164 mm

Plastik Avadanlık A 400



Ölçü	En	Boy	Yükseklik
Dış Ölçüleri	314 mm	505 mm	191 mm
İç Ölçüleri	276 mm	456 mm	187 mm

Plastik Avadanlık A 500



Ölçü	En	Boy	Yükseklik
Dış Ölçüleri	490 mm	400 mm	300 mm
İç Ölçüleri	400 mm	298 mm	297 mm

Plastik Avadanlık Setleri



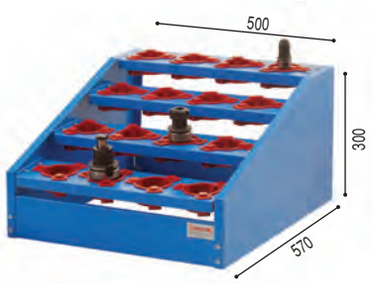
Metal Avadanlık Standları



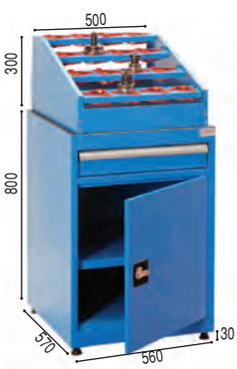
Döner Metal Dolaplar



Cnc Takım Dolapları 2755



Cnc Takım Dolapları 2850



Takım Arabası



Cnc Takım Dolapları



Takım Arabası



Takım Arabası



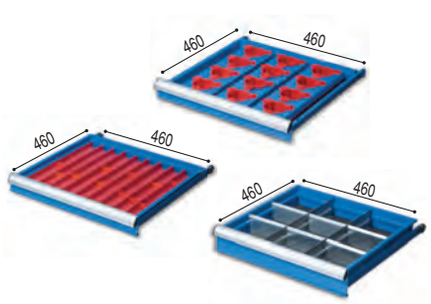
Çalışma Tezgahı



Takım Arabası



Çekmeceler



METRİK VİDA NORMAL			
ANMA ÇAPI	VİDA ADIMI	MATKAP ÇAPI	ANAHTAR AĞZI
1	0.25	0.75	
1.1	0.25	0.85	
1.2	0.25	0.95	
1.4	0.30	1.10	
1.6	0.35	1.25	
1.7	0.35	1.30	
1.8	0.35	1.45	
2	0.40	1.60	
2.2	0.45	1.75	
2.3	0.40	1.90	
2.5	0.45	2.05	
2.6	0.45	2.10	
3	0.50	2.50	5.5
3.5	0.60	2.90	
4	0.70	3.30	7
4.5	0.75	3.80	
5	0.80	4.20	8
6	1.00	5.00	10
7	1.00	6.00	
8	1.25	6.80	13
9	1.25	7.80	
10	1.50	8.50	17
11	1.50	9.50	
12	1.75	10.20	19
14	2.00	12.00	22
16	2.00	14.00	24
18	2.50	15.50	27
20	2.50	17.50	30
22	2.50	19.50	32
24	3.00	21.00	36
27	3.00	24.00	41
30	3.50	26.50	46
33	3.50	29.50	50
36	4.00	32.00	55
39	4.00	35.00	

WHİTWORTH VİDA NORMAL (BSW)			
ANMA ÇAPI	DİŞ ADEDİ	DIŞ ÇAPI	MATKAP ÇAPI
1/16	60	1.587	1.20
3/32	48	2.381	1.90
1/8	40	3.175	2.50
5/32	32	3.969	3.20
3/16	24	4.762	3.60
7/32	24	5.556	4.50
1/4	20	6.350	5.10
5/16	18	7.938	6.50
3/8	16	9.525	7.90
7/16	14	11.113	9.20
1/2	12	12.700	10.50
9/16	11	14.287	12.10
5/8	11	15.876	13.50
3/4	10	19.051	16.50
7/8	9	22.226	19.25
1	8	25.400	22.00
1 1/8	7	28.576	24.50
1 1/4	7	31.751	27.50
1 3/8	6	34.926	30.50

WHİTWORTH VİDA NORMAL (BSW)			
ANMA ÇAPI	DİŞ ADEDİ	DIŞ ÇAPI	MATKAP ÇAPI
3/16	32	4.762	3.90
7/32	28	5.656	4.50
1/4	26	6.350	5.30
9/32	26	7.142	6.10
5/16	22	7.938	6.70
3/8	20	9.525	8.20
7/16	18	11.113	9.60
1/2	16	12.700	11.00
9/16	16	14.288	12.50
5/8	14	15.875	14.00
1 1/16	14	17.463	15.50
3/4	12	19.050	16.75
7/8	11	22.225	19.75
1	10	25.400	22.75

AMERİKAN KABA VİDA (UNC)			
ANMA ÇAPI	DİŞ ADEDİ	DIŞ ÇAPI	MATKAP ÇAPI
1	64	1.854	1.50
2	56	2.184	1.80
3	48	2.515	2.05
4	40	2.845	2.30
5	40	3.175	2.60
6	32	3.505	2.75
8	32	4.166	3.50
10	24	4.826	3.80
12	24	5.486	4.50
1/4	20	6.350	5.10
5/16	18	7.938	6.50
3/8	16	9.525	7.90
7/16	14	11.112	9.30
1/2	13	12.700	10.80
9/16	12	14.288	12.30
5/8	11	15.875	13.50
3/4	10	19.050	16.50
7/8	9	22.225	19.50
1	8	25.400	22.25

6.8 / 8.8 / 10.9 / 12.9 KALİTE CİVATA NEDİR?

Birinci rakam 100 ile çarpılınca, çıkan değer malzemenin ÇEKME MUKAVEMETİNİ (dayanımını) verir.
Örnek:
8.8 için 8 x 100 = 800 Newton / mm²
10.9 için 10 x 100 = 1.000 Newton / mm²
6.8 için 6 x 100 = 600 Newton / mm²
1 Kg = 9.81 Newton'dur.
(Yaklaşık bir hesap için 1 kg = 10 Newton)
800 Newton / mm² = 80 Kg / mm²

İkinci rakam (8.8'in 8'i gibi) 8 = 0.8'dir. Yani ikinci rakam yukarıda bulunan çekme dayanımı ile çarpılarak çeliğin veya malzemenin AKMA GERİLME SINIRI veya ORANTISIZ UZAMAN GERİLMESİ bulunur.
800 x 0.8 = 640 Newton / mm² veya
yaklaşık 640/10 = 64 Kg/ mm²

MATKAP ÇAPI SEÇİMİ

Metrik vidalar için :
Anma Çapı - Vida Adımı = Matkap Çapı
Inch vidalar için :
Anma Çapı - (25.4/Diş Adedi) = Matkap Çapı

AMERİKAN WHİTWORTH BORU VİDA			
ANMA ÇAPI	DİŞ ADEDİ	DIŞ ÇAPI	MATKAP ÇAPI
1/8	28	9.728	8.70
1/4	19	13.157	11.60
3/8	19	16.662	15.25
1/2	14	20.955	19.00
5/8	14	22.911	21.00
3/4	14	26.441	24.50
7/8	14	30.201	28.00
1	11	33.249	30.50
1 1/8	11	37.897	35.50
1 1/4	11	41.910	39.50
1 3/8	11	44.323	42.00
1 1/2	11	47.803	45.00
1 3/4	11	53.746	51.00
2	11	59.614	57.00

AMERİKAN İNCE VİDA (UNF)			
ANMA ÇAPI	DİŞ ADEDİ	DIŞ ÇAPI	MATKAP ÇAPI
0	80	1.524	1.20
1	72	1.854	1.50
2	64	2.184	1.80
3	56	2.515	2.10
4	48	2.845	2.40
5	44	3.175	2.65
6	40	3.505	2.90
8	36	4.166	3.50
10	32	4.826	4.10
12	28	5.486	4.60
1/4	28	6.350	5.50
5/16	24	7.938	6.90
3/8	24	9.525	8.50
7/16	20	11.112	9.90
1/2	20	12.700	11.50
9/16	18	14.288	13.00
5/8	18	15.875	14.50
3/4	16	19.050	17.50
7/8	14	22.225	20.50
1	12	25.400	23.50

TOLERANS TABLOSU (Mikron Değerler / 0,001 mm)

NOMİNAL DELİK / İÇ ÖLÇÜSÜ mm (ISO 286 -2)

Üzeri >	3	6	10	18	30	40	50	65	80	100
Altı <	6	10	18	30	40	50	65	80	100	120
E6	+ 28 + 20	+ 34 + 25	+ 43 + 32	+ 53 + 40	+ 66 + 50		+ 76 + 60		+ 94 + 72	
E7	+ 32 + 20	+ 40 + 25	+ 50 + 32	+ 61 + 40	+ 75 + 50		+ 90 + 60		+ 107 + 72	
E11	+ 95 + 20	+ 115 + 25	+ 142 + 32	+ 170 + 40	+ 210 + 50		+ 250 + 60		+ 292 + 72	
E12	+ 140 + 20	+ 175 + 25	+ 212 + 32	+ 250 + 40	+ 300 + 50		+ 360 + 60		+ 422 + 72	
E13	+ 200 + 20	+ 245 + 25	+ 302 + 32	+ 370 + 40	+ 440 + 50		+ 520 + 60		+ 612 + 72	
F6	+18 + 10	+ 22 + 13	+ 27 + 16	+ 33 + 20	+ 41 + 2		+ 49 + 30		+ 58 + 36	
F7	+ 22 + 10	+ 28 + 13	+ 34 + 16	+ 41 + 20	+ 50 + 25		+ 60 + 30		+ 71 + 36	
F8	+ 28 + 10	+ 35 + 13	+ 43 + 16	+ 53 + 20	+ 64 + 25		+ 76 + 30		+ 90 + 36	
G6	+ 12 + 4	+ 14 + 5	+ 17 + 6	+ 20 + 7	+ 25 + 9		+ 29 + 10		+ 32 + 12	
G7	+ 16 + 4	+ 20 + 5	+ 24 + 6	+ 28 + 7	+ 34 + 9		+ 40 + 10		+ 47 + 12	
G8	+ 22 + 4	+ 27 + 5	+ 33 + 6	+ 40 + 7	+ 48 + 9		+ 56 + 10		+ 66 + 12	
H6	+ 8 0	+ 9 0	+ 11 0	+ 13 0	+ 16 0		+ 19 0		+ 22 0	
H7	+ 12 0	+ 15 0	+ 18 0	+ 21 0	+ 25 0		+ 30 0		+ 35 0	
H8	+ 18 0	+ 22 0	+ 27 0	+ 33 0	+ 39 0		+ 46 0		+ 54 0	
H9	+ 30 0	+ 36 0	+ 43 0	+ 52 0	+ 62 0		+ 74 0		+ 87 0	
H10	+ 48 0	+ 58 0	+ 70 0	+ 84 0	+ 100 0		+ 120 0		+ 140 0	
H11	+ 75 0	+ 90 0	+ 110 0	+ 130 0	+ 160 0		+ 190 0		+ 220 0	
J6	+ 5 - 3	+ 5 - 4	+ 6 - 5	+ 8 - 5	+ 10 - 6		+ 13 - 6		+ 16 - 6	
J7	+ 6 - 6	+ 8 - 7	+ 10 - 8	+ 12 - 9	+ 14 - 11		+ 18 - 12		+ 22 - 13	
J8	+ 10 - 8	+ 12 - 10	+ 15 - 12	+ 20 - 13	+ 24 - 15		+ 28 - 18		+ 34 - 20	
JS6	+ 4 - 4	+ 4.5 - 4.5	+ 5.5 - 5.5	+ 6.5 - 6.5	+ 8 - 8		+ 9.5 - 9.5		+ 11 - 11	
JS7	+ 6 - 6	+ 7.5 - 7.5	+ 9 - 9	+10.5 - 10.5	+ 12.5 - 12.5		+ 15 - 15		+ 17.5 - 17.5	
JS8	+ 9 - 9	+ 11 - 11	+13.5 - 13.5	+16.5 - 16.5	+ 19.5 - 19.5		+ 23 - 23		+ 27 - 27	
K6	+ 2 - 6	+ 2 - 7	+ 2 - 9	+ 2 - 11	+ 3 - 13		+ 4 - 15		+ 4 - 18	
K7	+ 3 - 9	+ 5 - 10	+ 6 - 12	+ 6 - 15	+ 7 - 18		+ 9 - 21		+ 10 - 25	
K8	+ 5 - 13	+ 16 - 16	8 - 19	+ 10 - 23	+ 12 - 27		+ 14 - 32		+ 16 - 38	
M6	- 1 - 9	+ 3 - 12	- 4 - 15	- 4 - 17	- 4 - 20		- 5 - 24		- 6 - 28	
M7	0 - 12	0 - 15	0 - 18	0 -21	0 - 25		0 - 30		0 - 35	
M8	+ 2 - 16	+ 1 - 21	+ 2 - 25	+ 4 - 29	+ 5 - 34		+ 5 - 41		+ 6 - 48	
N6	- 5 - 13	- 7 - 16	- 9 - 20	- 11 -24	- 12 - 28		- 14 - 33		- 16 - 38	
N7	- 4 - 16	- 4 - 19	- 5 - 23	- 7 -28	- 8 - 33		- 9 - 39		- 10 - 45	
N8	- 2 - 20	- 3 - 25	- 3 - 30	- 3 - 36	- 3 - 42		- 4 - 50		- 4 - 58	
P6	- 9 - 17	- 12 - 21	- 15 - 26	- 18 - 31	- 21 - 37		- 26 - 45		- 30 - 52	
P7	- 8 - 20	- 9 - 24	- 11 - 29	- 14 - 35	- 17 - 42		- 21 - 51		- 24 - 59	
P8	- 12 - 30	- 15 - 37	- 18 - 45	- 22 - 55	- 26 - 65		- 32 - 78		- 37 - 91	
R6	- 12 - 20	- 16 - 25	- 20 - 31	- 24 - 37	- 29 - 45	- 35 - 54	- 37 - 56	- 44 - 66	- 47 - 69	
R7	- 11 - 23	- 13 - 28	- 16 - 34	- 20 - 41	- 25 - 50	- 30 - 60	- 32 - 62	- 38 - 73	- 41 - 76	

TOLERANS TABLOSU (Mikron Değerler / 0,001 mm)

NOMİNAL MİL / DIŞ ÖLÇÜSÜ mm (ISO 286 -2)

Üzeri >	3	6	10	18	30	40	50	65	80	100
Altı <	6	10	18	30	40	50	65	80	100	120
a12	- 270 - 390	- 280 - 430	- 290 - 470	- 300 - 510	- 310 - 560	- 320 - 570	- 340 - 640	- 360 - 660	- 380 - 730	- 410 - 760
d6	- 30 - 38	- 40 - 49	- 50 - 61	- 65 - 78		- 80 - 96		- 100 - 119		- 120 - 142
e6	- 20 - 28	- 25 - 34	- 32 - 43	- 40 - 53		- 50 - 66		- 60 - 79		- 72 - 94
e13	- 220	- 270	- 334	- 410 - 440		- 50		- 60 - 520		- 72 - 612
f5	- 25	- 32	- 40	- 49 - 36		- 25		- 30 - 43		- 36 - 51
f6	- 10 - 18	- 13 - 22	- 16 - 27	- 20 - 33		- 25 - 41		- 30 - 49		- 36 - 58
f7	- 10 - 22	- 13 - 28	- 16 - 34	- 20 - 41		- 25 - 50		- 30 - 60		- 36 - 71
g5	- 4 - 9	- 5 - 11	- 6 - 14	- 7 - 16		- 9 - 20		- 10 - 23		- 12 - 27
g6	- 4 - 12	- 5 - 14	- 6 - 17	- 7 - 20		- 9 - 25		- 10 - 29		- 12 - 34
g7	- 4 - 16	- 5 - 20	- 6 - 24	- 7 - 28		- 9 - 34		- 10 - 40		- 12 - 47
h4	0 - 4	0 - 4	0 - 5	0 - 6		0 - 7		0 - 8		0 - 10
h5	0 - 5	0 - 6	0 - 8	0 - 9		0 11		0 13		0 15
h6	0 -8	0 - 9	0 - 11	0 - 13		0 - 16		0 - 19		0 - 22
h7	0 - 12	0 - 15	0 - 18	0 - 21		0 - 25		0 - 30		0 - 35
h8	0 - 18	0 - 22	0 - 27	0 - 33		0 - 39		0 - 46		0 - 54
h9	0 - 30	0 - 36	0 - 43	0 - 52		0 - 62		0 - 74		0 - 87
h10	0 - 48	0 - 58	0 - 70	0 - 84		0 - 100		0 - 120		0 - 140
h11	0 - 75	0 - 90	0 - 110	0 - 130		0 - 160		0 - 190		0 - 220
h12	0 - 120	0 - 150	0 - 180	0 - 210		0 - 250		0 - 300		0 - 350
j5	+ 3 - 2	+ 4 - 2	+ 5 - 3	+ 5 - 4		+ 6 - 5		+ 6 - 7		+ 6 - 9
j6	+ 6 - 2	+ 7 - 2	+ 8 - 3	+ 9 - 4		+ 11 - 5		+ 12 - 7		+ 13 - 9
j7	+ 8 - 4	+ 10 - 5	+ 12 - 16	+ 13 - 8		+ 15 - 10		+ 18 - 22		+ 20 - 15
js5	+ 2.5 - 5	+ 3 - 3	+ 4 - 4	+ 4.5 - 4.5		+ 5.5 - 5.5		+ 6.5 - 6.5		+ 7.5 - 7.5
js6	+ 4 - 4	+ 4.5 - 4.5	+ 5.5 - 5.5	+ 6.5 - 6.5		+ 8 - 8		+ 9.5 - 9.5		+ 11 - 11
js7	+ 6 - 6	+ 7.5 - 7.5	+ 9 - 9	+ 10.5 - 10.5		+ 12.5 - 12.5		+ 15 - 15		+ 17.5 - 17.5
k5	+ 6 + 1	+ 7 + 1	+ 9 + 1	+ 11 + 2		+ 13 + 2		+ 15 + 2		+ 18 + 3
k6	+ 9 + 1	+ 10 + 1	+ 12 + 1	+ 15 + 2		+ 18 + 2		+ 21 + 2		+ 25 + 3
k7	+ 13 + 1	+ 16 + 1	+ 19 + 1	+ 23 + 2		+ 27 + 2		+ 32 + 2		+ 38 + 3
m5	+ 9 + 4	+ 12 + 6	+ 15 + 7	+ 17 + 8		+ 20 + 9		+ 24 + 11		+ 28 + 13
m6	+ 12 + 4	+ 15 + 6	+ 18 + 7	+ 21 + 8		+ 25 + 9		+ 30 + 11		+ 35 + 13
m7	+ 16 + 4	+ 21 + 6	+ 25 + 7	+ 29 + 8		+ 34 + 9		+ 41 + 11		+ 48 + 13
n5	+ 13 + 8	+ 16 + 10	+ 20 + 12	+ 24 + 15		+ 28 + 17		+ 33 + 20		+ 38 + 23
n6	+ 16 + 8	+ 19 + 10	+ 23 + 12	+ 28 + 15		+ 33 + 17		+ 39 + 20		+ 45 + 23
n7	+ 20 + 8	+ 25 + 10	+ 30 + 12	+ 36 + 15		+ 42 + 17		+ 50 + 20		+ 58 + 23
p5	+ 17 + 12	+ 21 + 15	+ 26 + 18	+ 31 + 22		+ 37 + 26		+ 45 + 32		+ 52 + 37
p6	+ 20 + 12	+ 24 + 15	+ 29 + 18	+ 35 + 22		+ 42 + 26		+ 51 + 32		+ 59 + 37
r6	+ 23 + 15	+ 28 + 19	+ 34 + 23	+ 41 + 28		+ 50 + 34	+ 60 + 41	+ 62 + 43	+ 73 + 51	+ 76 + 54

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Ürün kodu, ölçü ve adedi yazıp WhatsApp ile iletin veya e-posta ile gönderin.

Firma adı _____

Yetkili adı _____

Telefon _____

E-posta _____

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7			
8			
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11			
12			

WhatsApp ile teklif iste

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