



# ERMAK TEKNİK MALZEME

## MARKA'YA GİT



MIRANDA



AUDIA



TEC

KORI



WEGLER

TECLOCK

AFAR

Rime

UTENSILERIA

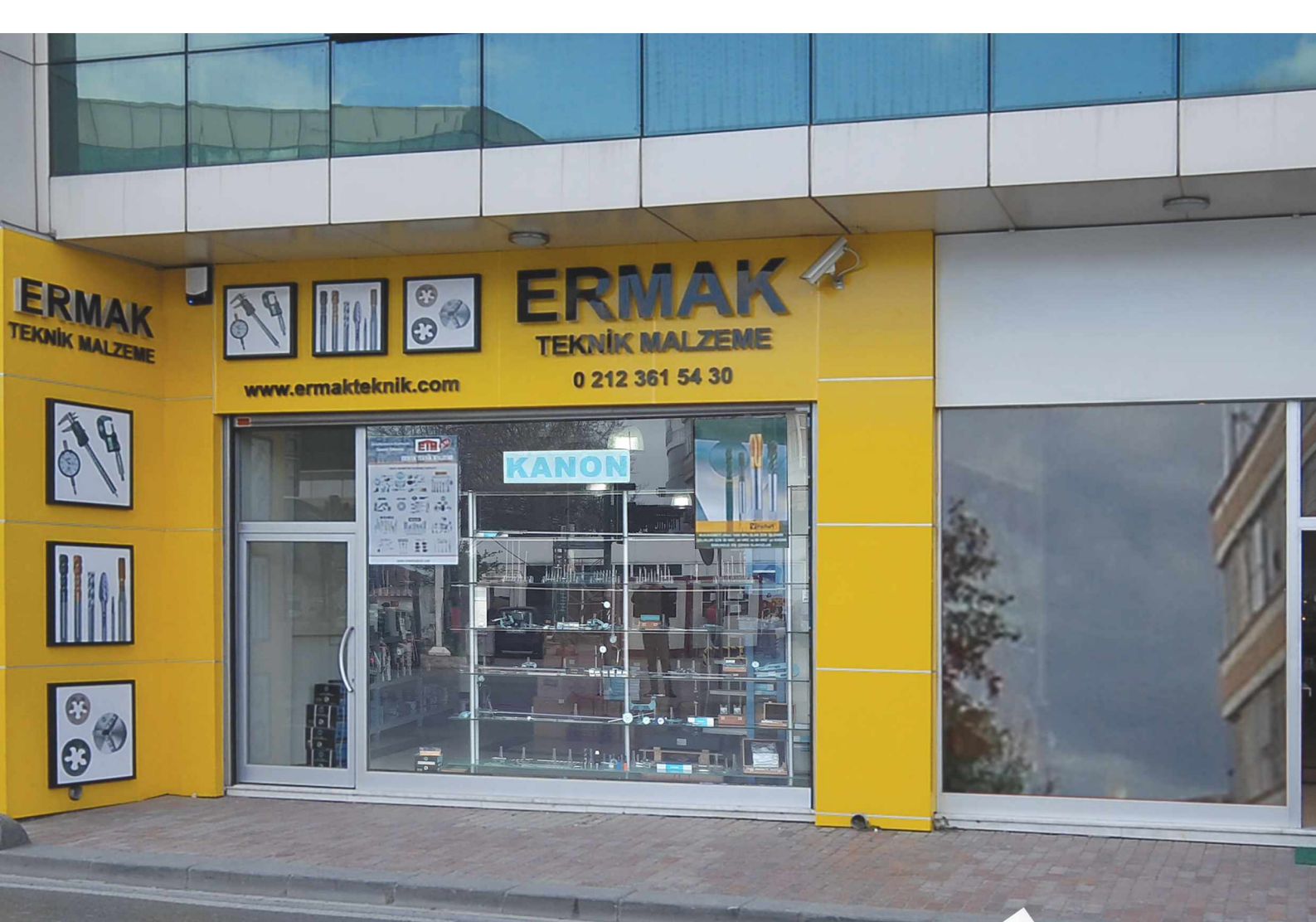
TAKACHIHO

www.ermaktechnik.com

Katalog & Fiyat Listesi

Catalog & Price List

2013



### HAKKIMIZDA...

ERMAK TEKNİK MALZEME, 1989 yılından beri Endüstri üretiminde kullanılan ürünler olan Teknik Hırdavat alanında ithalatçı firma olarak faaliyet göstermektedir.

Başlangıçtan bugüne sektördeki teknolojik gelişmeleri ve fuarları yakından takip eden firmamız, bugün ağır sanayi sektöründe kullanılan Kesici Takımlar, Tutucu Takımlar ve Ölçü Aletleri konusunda geniş bir ithalat ve pazarlama ağına sahip olmuş, ve pazarın önemli aktörlerinden biri haline gelmiştir.

Firmamız dünyanın birçok ülkesinden ve pek çok tanınmış üretici firmasından ithalat yapmakta olup ithalatını yaptığımız ürünler aktif pazarlama metotlarıyla Türkiye genelindeki sanayiye sunulmaktadır. ERMAK geniş ürün yelpезesiyle ve güçlü finansman yapısıyla daima yenilikleri takip ederek yatırımlarına devam etmektedir.

#### SATIŞ ŞARTLARIMIZ.

- 1- Fiyatlarımıza KDV dahil değildir.
- 2- Fiyatlarımız 2 ay vadeli (60 gün) esasına göre ayarlanmıştır. Nakit ve Kredi kartı ile yapılan ödemelerde %10 peşin iskontosu uygulanır.
- 3- Faturalarımızın altında belirtilen ödeme vadeleri müşteri ile akit sayılır. Geciken ödemeler için aylık %5 vade farkı faturası kesilir.
- 4- Fiyatlarımız depo teslimi olup, mal müşteri sorumluluğunda sevk edilir. Her türlü ambar kargo ücreti müşteriye ait olup, sevkiyat anında oluşabilecek hasarlardan ERMAK sorumlu tutulamaz.
- 5- Satılan mal ile ilgili itirazlar teslim tarihinden en çok 7 gün içinde yapılmışsa dikkate alınır.
- 6- Ürün iadeleri firmamızdan onay alınarak teslim tarihinden sonra 5 iş günü içinde hasarsız, kullanılmamış ve ambalajı bozulmamış koşulu ile iade kabul edilir.
- 7- Haber vermeksizin fiyat değiştirme hakkımız saklıdır.
- 8- Matbaa hatalarından dolayı fiyatlarda yapılan yanlışlıklardan dolayı firmamız sorumlu tutulamaz.

#### ERMAK TEKNİK MALZEME SAN. ve TİC. LTD. ŞTİ.

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Eyüp / İstanbul / TURKEY  
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Fax : (0212) 361 54 34  
www.ermaktechnik.com  
info@ermaktechnik.com

#### BANKA HESAP NUMARALARIMIZ. (TL)

Banka	Şube	Kod	Hesap	İban Numarası
AKBANK	Topçular	0444	0045866	TR74 0004 6004 4488 8000 0458 66
T. İŞ BANKASI	Kışla Caddesi	1076	455708	TR19 0006 4000 0011 0760 4557 08
GARANTİ BANKASI	Topçular	311	6296369	TR29 0006 2000 3110 0006 2963 69
TEB	Topçular	178	52091883	TR51 0003 2000 0000 0052 0918 83
YAPI KREDİ BANKASI	Topçular	755	90835782	TR52 0006 7010 0000 0090 8357 82
T.C. ZİRAAT BANKASI A.Ş.	Topçular	1915	62294737-5001	TR22 0001 0019 1562 2947 3750 01



ERMAK TEKNİK MALZEME



ERMAK TEKNİK MALZEME

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ERMAK TEKNİK MALZEME

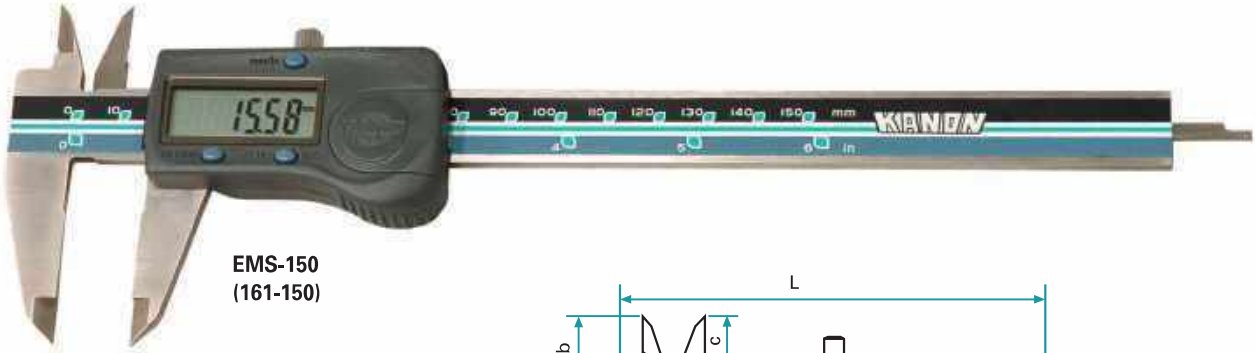


**MİKROMETRELER, KUMPASLAR, MİGENGİRLER, DERECELİ GÖNYELER, KOMPARATÖRLER, MAKİNA SAYAÇLARI, MANYETİK AYAKLAR, MİKROMETRE STANDLARI, MASTARLAR, GRANİT YÜZEYLİ TABLALAR.**

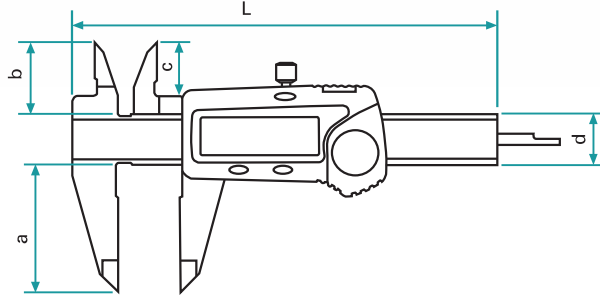
Micrometers, Calipers, Height Gages, Protractors, Indicators, Counters, Magnetic Stands, Mikrometer Holders (Stands), Gauges, Granit Surface Plates.



## DİJİTAL KUMPAKLAR Digital Calipers

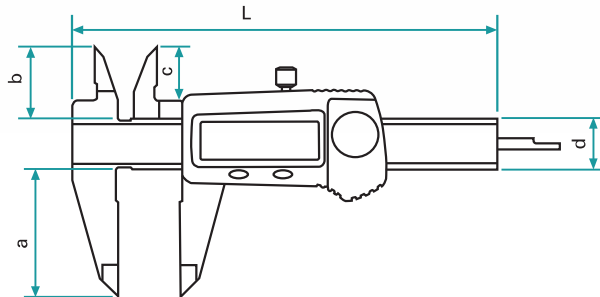
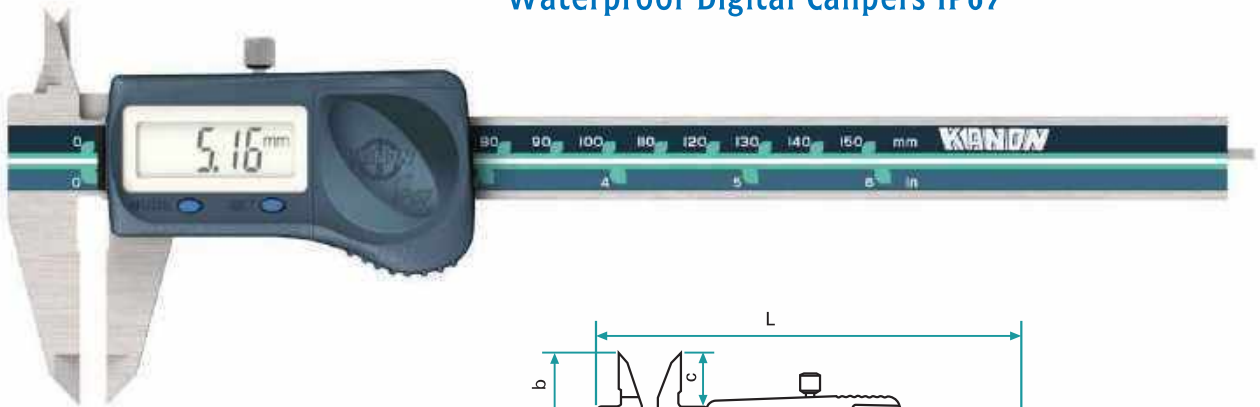


EMS-150  
(161-150)



CODE	NEW CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	a mm	b mm	c mm	d mm	Birim Fiyatı USD
EMS-150	161-150	0-150	0.01/.0005"	±0.03	236	40	21	16.5	16	74.80
EMS-200	161-200	0-200	0.01/.0005"	±0.03	284	50	24	19.5	16	99.50
EMS-300	161-300	0-300	0.01/.0005"	±0.04	400	60	25	20.5	17	178.60

## SU GEÇİRMEZ DİJİTAL KUMPAKLAR IP67 Waterproof Digital Calipers IP67

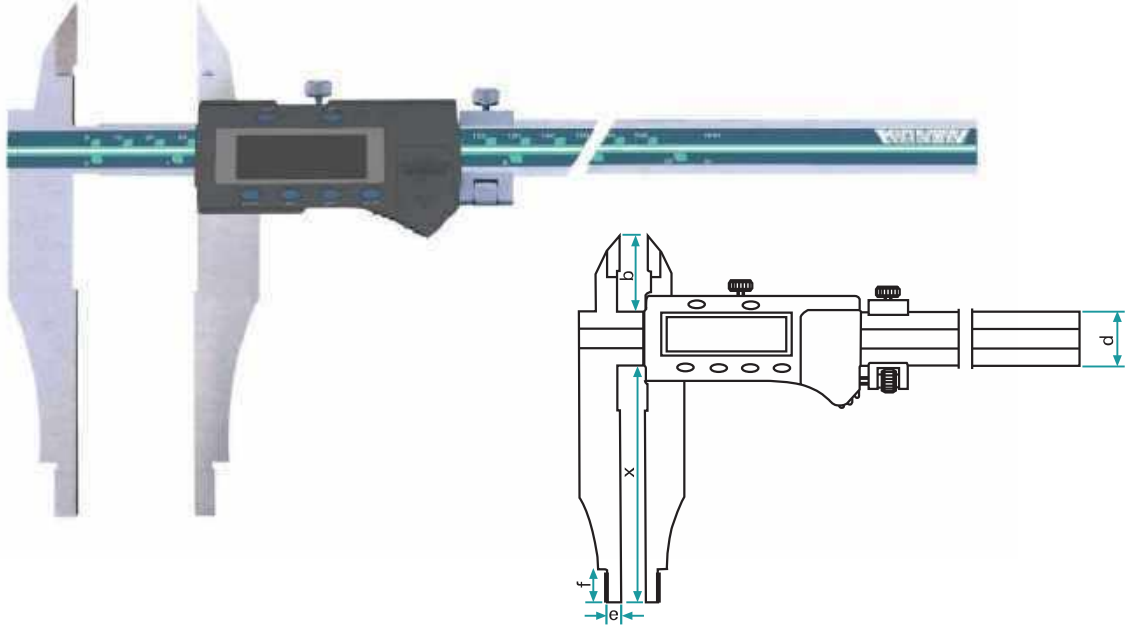


CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	a mm	b mm	c mm	d mm	Birim Fiyatı USD
160-150	0-150	0.01/.0005"	±0.03	236	40	21	16.5	16	234.00
160-200	0-200	0.01/.0005"	±0.03	284	50	24	19.5	16	274.50
160-300	0-300	0.01/.0005"	±0.04	400	60	25	20.5	17	337.50



## DİJİTAL KUMPASLAR - ÇİFT ÇENELİ

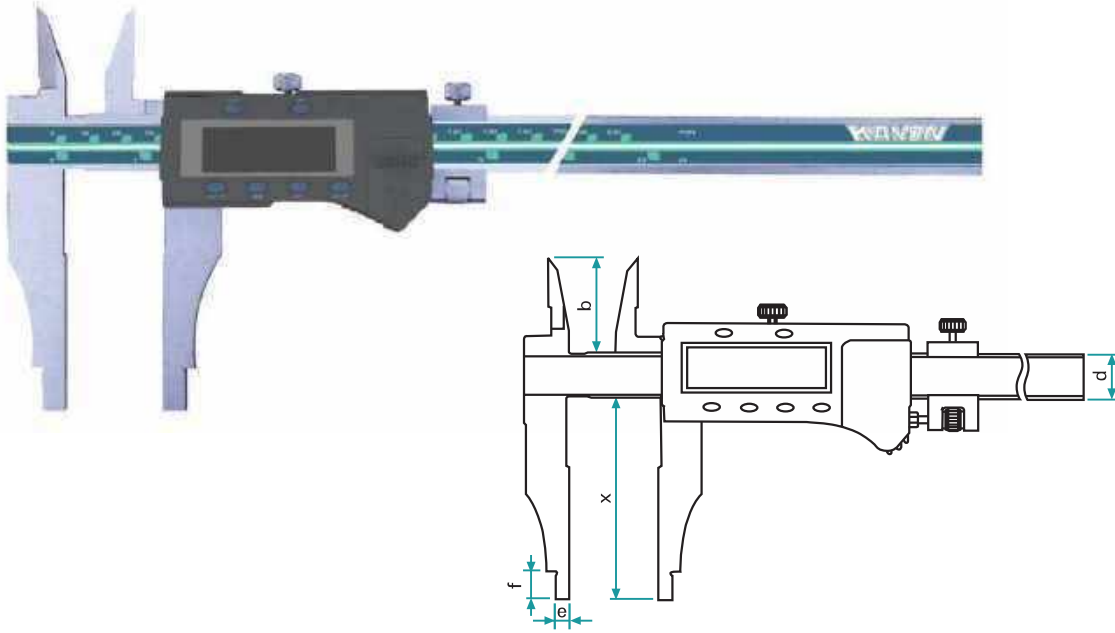
### Digital Calipers With Double Jaws



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	x mm	b mm	d mm	e mm	f mm	Birim Fiyatı USD
<b>162-206</b>	0 - 200	0.01/.0005"	±0.03	60	38	17	5	12	<b>136.35</b>
<b>162-207-5</b>	0 - 200	0.01/.0005"	±0.03	75	38	17	5	12	<b>162.30</b>
<b>162-307-5</b>	0 - 300	0.01/.0005"	±0.04	75	38	17	5	12	<b>202.90</b>
<b>162-309</b>	0 - 300	0.01/.0005"	±0.04	90	45	20	5	12	<b>216.85</b>
<b>162-310</b>	0 - 300	0.01/.0005"	±0.04	100	45	20	5	12	<b>275.35</b>
<b>162-510</b>	0 - 500	0.01/.0005"	±0.05	100	56	24	10	18	<b>335.80</b>
<b>162-515</b>	0 - 500	0.01/.0005"	±0.05	150	56	24	10	18	<b>414.66</b>
<b>162-520</b>	0 - 500	0.01/.0005"	±0.05	200	67	31	10	24	<b>527.69</b>
<b>162-610</b>	0 - 600	0.01/.0005"	±0.05	100	56	24	10	18	<b>456.71</b>
<b>162-615</b>	0 - 600	0.01/.0005"	±0.05	150	56	24	10	18	<b>555.94</b>
<b>162-620</b>	0 - 600	0.01/.0005"	±0.05	200	67	31	10	24	<b>681.46</b>
<b>162-815</b>	0 - 800	0.01/.0005"	±0.06	150	67	31	10	24	<b>841.30</b>
<b>162-820</b>	0 - 800	0.01/.0005"	±0.06	200	67	31	10	24	<b>916.06</b>
<b>162-1015</b>	0 - 1000	0.01/.0005"	±0.07	150	67	31	10	24	<b>1164.56</b>
<b>162-1020</b>	0 - 1000	0.01/.0005"	±0.07	200	67	31	10	24	<b>1386.74</b>
<b>162-1030</b>	0 - 1000	0.01/.0005"	±0.07	300	67	31	10	24	<b>1917.32</b>
<b>162-1515</b>	0 - 1500	0.01/.0005"	±0.11	150	80	42	10	24	<b>1885.08</b>
<b>162-1520</b>	0 - 1500	0.01/.0005"	±0.11	200	80	42	10	24	<b>2229.41</b>
<b>162-1530</b>	0 - 1500	0.01/.0005"	±0.11	300	80	42	10	24	<b>2964.24</b>
<b>162-2015</b>	0 - 2000	0.01/.0005"	±0.14	150	80	42	10	24	<b>2790.21</b>
<b>162-2020</b>	0 - 2000	0.01/.0005"	±0.14	200	80	42	10	24	<b>3270.24</b>
<b>162-2030</b>	0 - 2000	0.01/.0005"	±0.14	300	80	42	10	24	<b>4386.96</b>

## DİJİTAL KUMPASLAR - ÇİFT ÇENELİ

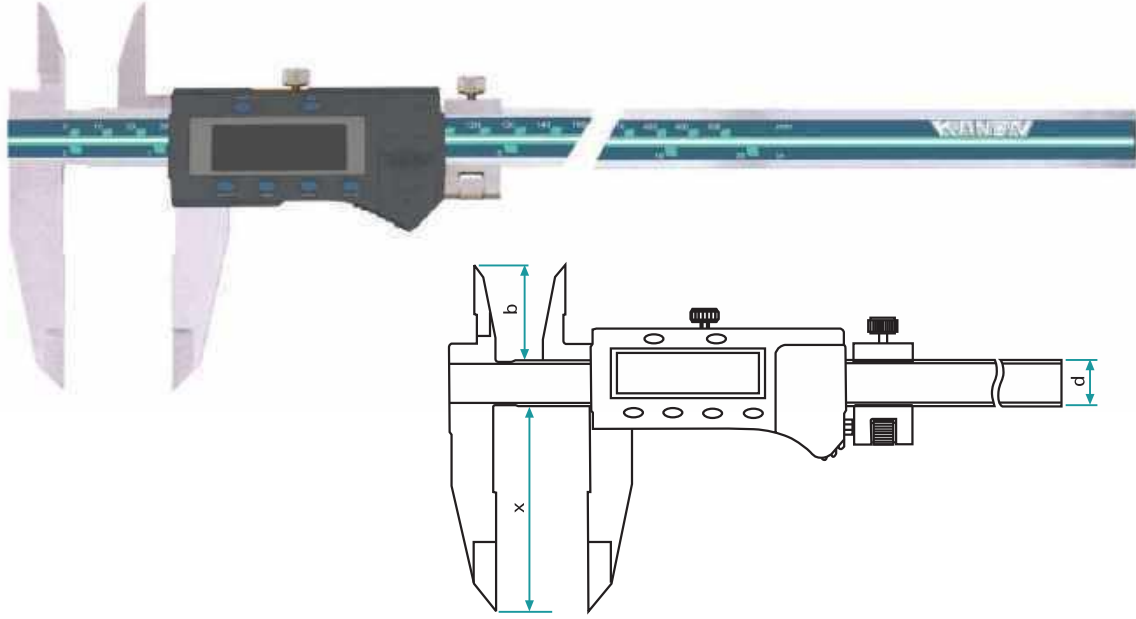
### Digital Calipers With Double Jaws



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	x mm	b mm	d mm	e mm	f mm	Birim Fiyatı USD
163-307-5	0 - 300	0.01/.0005"	±0.04	75	28	17	5	12	221.30
163-309	0 - 300	0.01/.0005"	±0.04	90	42	20	5	12	247.95
163-310	0 - 300	0.01/.0005"	±0.04	100	42	20	5	12	269.00
163-510	0 - 500	0.01/.0005"	±0.05	100	45	24	10	18	311.55
163-515	0 - 500	0.01/.0005"	±0.05	150	45	24	10	18	395.00
163-520	0 - 500	0.01/.0005"	±0.05	200	60	31	10	24	481.46
163-610	0 - 600	0.01/.0005"	±0.05	100	45	24	10	18	427.00
163-615	0 - 600	0.01/.0005"	±0.05	150	45	24	10	18	540.25
163-620	0 - 600	0.01/.0005"	±0.05	200	60	31	10	24	641.05
163-812-5	0 - 800	0.01/.0005"	±0.06	125	45	24	10	18	760.50
163-815	0 - 800	0.01/.0005"	±0.06	150	60	31	10	24	915.80
163-820	0 - 800	0.01/.0005"	±0.06	200	60	31	10	24	976.00
163-1012-5	0 - 1000	0.01/.0005"	±0.07	125	60	31	10	24	924.69
163-1015	0 - 1000	0.01/.0005"	±0.07	150	60	31	10	24	1054.89
163-1020	0 - 1000	0.01/.0005"	±0.07	200	60	31	10	24	1254.62
163-1515	0 - 1500	0.01/.0005"	±0.11	150	60	42	10	24	1702.99
163-1520	0 - 1500	0.01/.0005"	±0.11	200	60	42	10	24	2012.24
163-2015	0 - 2000	0.01/.0005"	±0.14	150	60	42	10	24	2516.51
163-2020	0 - 2000	0.01/.0005"	±0.14	200	60	42	10	24	2947.68
163-2030	0 - 2000	0.01/.0005"	±0.14	300	60	42	10	24	3952.72

## DİJİTAL KUMPASLAR - ÇİFT ÇENELİ

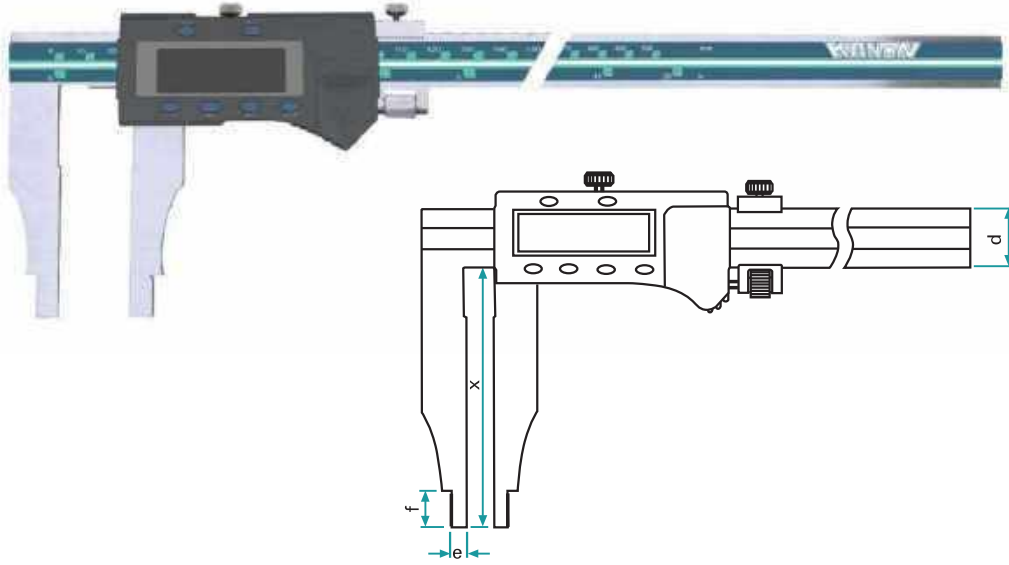
### Digital Calipers With Double Jaws



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	x mm	b mm	d mm	Birim Fiyatı USD
164-207-5	0 - 200	0.01/.0005"	±0.03	75	28	17	160.50
164-307-5	0 - 300	0.01/.0005"	±0.04	75	28	17	213.57
164-309	0 - 300	0.01/.0005"	±0.04	90	42	20	258.91
164-310	0 - 300	0.01/.0005"	±0.04	100	45	24	301.50
164-510	0 - 500	0.01/.0005"	±0.05	100	45	24	375.00
164-515	0 - 500	0.01/.0005"	±0.05	150	60	31	414.66
164-520	0 - 500	0.01/.0005"	±0.05	200	60	31	527.69
164-610	0 - 600	0.01/.0005"	±0.05	100	45	24	456.71
164-615	0 - 600	0.01/.0005"	±0.05	150	60	31	591.10
164-620	0 - 600	0.01/.0005"	±0.05	200	60	31	681.46
164-812-5	0 - 800	0.01/.0005"	±0.06	125	45	24	645.31
164-815	0 - 800	0.01/.0005"	±0.06	150	60	31	757.69
164-820	0 - 800	0.01/.0005"	±0.06	200	60	31	916.06
164-1012-5	0 - 1000	0.01/.0005"	±0.07	125	60	31	1020.21
164-1015	0 - 1000	0.01/.0005"	±0.07	150	60	31	1164.56
164-1020	0 - 1000	0.01/.0005"	±0.07	200	60	31	1386.74
164-1520	0 - 1500	0.01/.0005"	±0.11	200	70	42	2229.41
164-1525	0 - 1500	0.01/.0005"	±0.11	250	70	42	2568.65
164-1530	0 - 1500	0.01/.0005"	±0.11	300	70	42	2964.24
164-2020	0 - 2000	0.01/.0005"	±0.14	200	70	42	3270.24
164-2025	0 - 2000	0.01/.0005"	±0.14	250	70	42	3768.48
164-2030	0 - 2000	0.01/.0005"	±0.14	300	70	42	4386.96

## DİJİTAL KUMPASLAR - TEK ÇENELİ

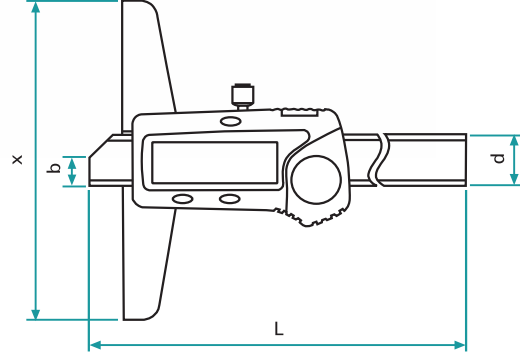
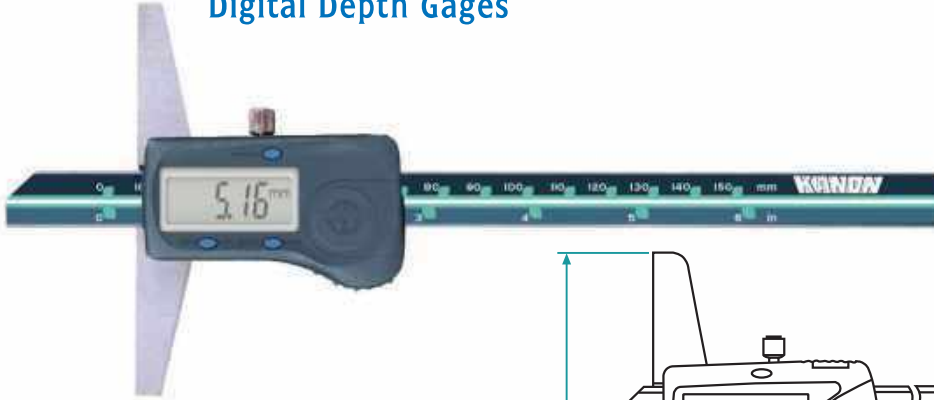
### Digital Calipers With Single Jaws



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	x mm	d mm	e mm	f mm	Birim Fiyatı USD
165-207-5	0 - 200	0.01/.0005"	±0.03	75	17	5	12	118.25
165-307-5	0 - 300	0.01/.0005"	±0.04	75	17	5	12	176.60
165-310	0 - 300	0.01/.0005"	±0.04	100	20	5	12	192.20
165-510	0 - 500	0.01/.0005"	±0.05	100	24	10	18	295.71
165-515	0 - 500	0.01/.0005"	±0.05	150	24	10	18	354.86
165-520	0 - 500	0.01/.0005"	±0.05	200	31	10	24	473.15
165-610	0 - 600	0.01/.0005"	±0.05	100	24	10	24	377.04
165-615	0 - 600	0.01/.0005"	±0.05	150	24	10	18	439.14
165-620	0 - 600	0.01/.0005"	±0.05	200	31	10	24	505.67
165-810	0 - 800	0.01/.0005"	±0.06	100	31	10	24	499.02
165-815	0 - 800	0.01/.0005"	±0.06	150	31	10	24	611.02
165-820	0 - 800	0.01/.0005"	±0.06	200	31	10	24	672.75
165-1012-5	0 - 1000	0.01/.0005"	±0.07	125	31	10	24	747.50
165-1015	0 - 1000	0.01/.0005"	±0.07	150	31	10	24	813.21
165-1020	0 - 1000	0.01/.0005"	±0.07	200	31	10	24	924.11
165-1512-5	0 - 1500	0.01/.0005"	±0.11	125	42	10	24	1471.02
165-1515	0 - 1500	0.01/.0005"	±0.11	150	42	10	24	1639.55
165-1520	0 - 1500	0.01/.0005"	±0.11	200	42	10	24	1938.11
165-2015	0 - 2000	0.01/.0005"	±0.14	150	42	10	24	2426.27
165-2020	0 - 2000	0.01/.0005"	±0.14	200	42	10	24	2868.67
165-2025	0 - 2000	0.01/.0005"	±0.14	250	42	10	24	3531.60
165-2030	0 - 2000	0.01/.0005"	±0.14	300	42	10	24	3699.36

## DİJİTAL DERİNLİK KUMPAKLARI

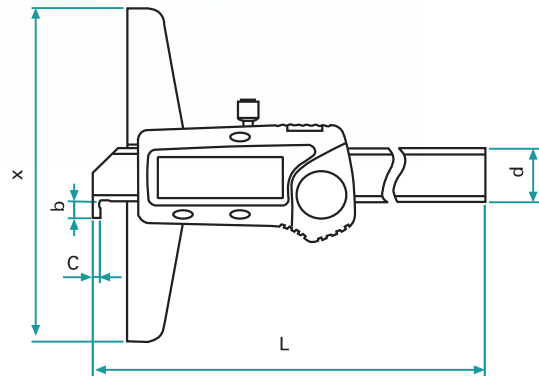
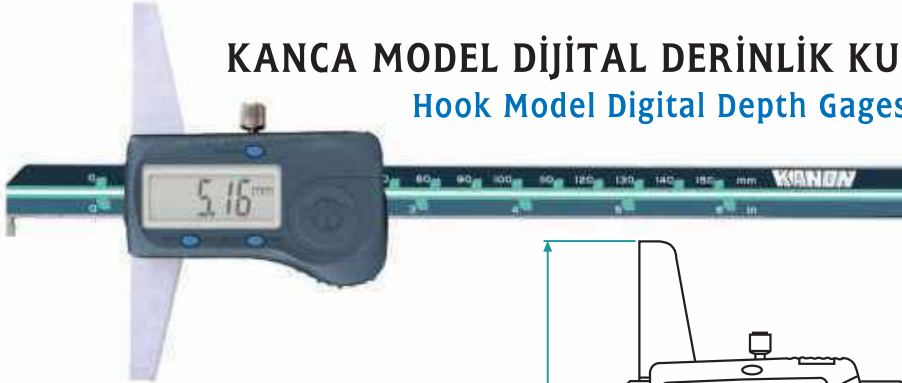
### Digital Depth Gages



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	x mm	b mm	d mm	Birim Fiyatı USD
170-150-10	0 - 150	0.01/.0005"	±0.03	230	100	6	14.5	99.95
170-210	0 - 200	0.01/.0005"	±0.03	280	100	6	14.5	114.85
170-310	0 - 300	0.01/.0005"	±0.04	380	100	6	14.5	186.85
170-315	0 - 300	0.01/.0005"	±0.04	380	150	6	14.5	235.55
170-515	0 - 500	0.01/.0005"	±0.05	585	150	7	15	345.00
170-615	0 - 600	0.01/.0005"	±0.05	685	150	7	15	483.30
170-1020	0-1000	0.01/.0007"	±0.07	1188	200	7	18	1037.30

## KANCA MODEL DİJİTAL DERİNLİK KUMPAKLARI

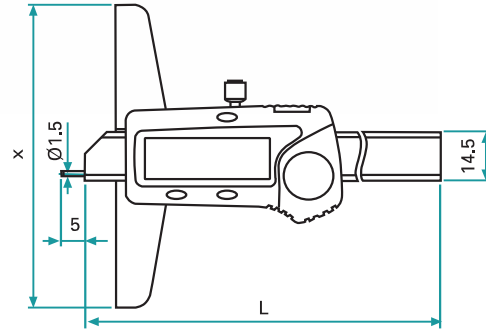
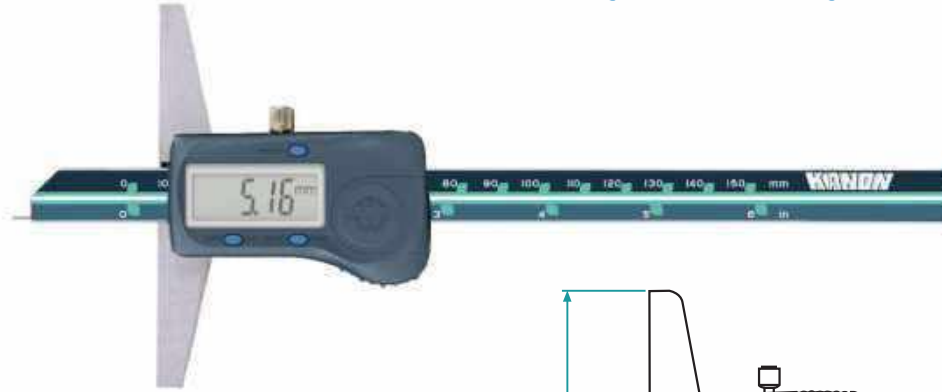
### Hook Model Digital Depth Gages



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	x mm	b mm	c mm	d mm	Birim Fiyatı USD
171-150-10	0 - 150	0.01/.0005"	±0.03	230	100	5	2	14.5	101.45
171-150-15	0 - 150	0.01/.0005"	±0.03	230	150	5	2	14.5	141.63
171-210	0 - 200	0.01/.0005"	±0.03	280	100	5	2	14.5	124.90
171-215	0 - 200	0.01/.0005"	±0.03	280	150	5	2	14.5	161.80
171-310	0 - 300	0.01/.0005"	±0.04	380	100	5	2	14.5	198.65
171-315	0 - 300	0.01/.0005"	±0.04	380	150	5	2	14.5	248.10

## İĞNE UÇLU DİJİTAL DERİNLİK KUMPAKLARI

### Needle Digital Depth Gages



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	x mm	Birim Fiyatı USD
172-150-10	0 - 150	0.01/.0005"	±0.03	230	100	
172-210	0 - 200	0.01/.0005"	±0.03	280	100	<b>262.00</b>
172-310	0 - 300	0.01/.0005"	±0.04	380	100	
172-315	0 - 300	0.01/.0005"	±0.04	380	150	

## DİJİTAL MİHENGİRLER

### Digital Height Gages



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	Birim Fiyatı USD
181-300	0 - 300	0.01/.0005"	±0.04	<b>440.00</b>
181-600	0 - 600	0.01/.0005"	±0.05	<b>671.00</b>

## ÇİFT RODLU DİJİTAL MİHENGİRLER

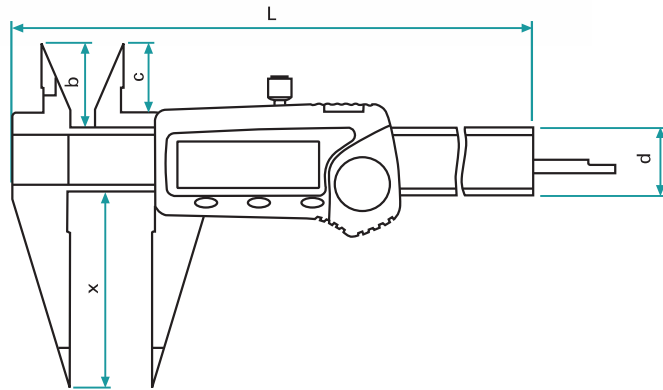
### Digital Height Gages Double-Column



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	Birim Fiyatı USD
182-300	0 - 300	0.01/.0005"	±0.04	485.00
182-600	0 - 600	0.01/.0005"	±0.05	698.00

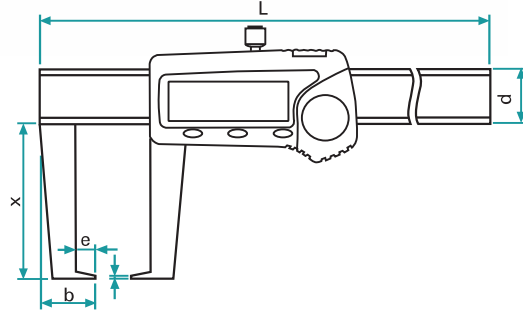
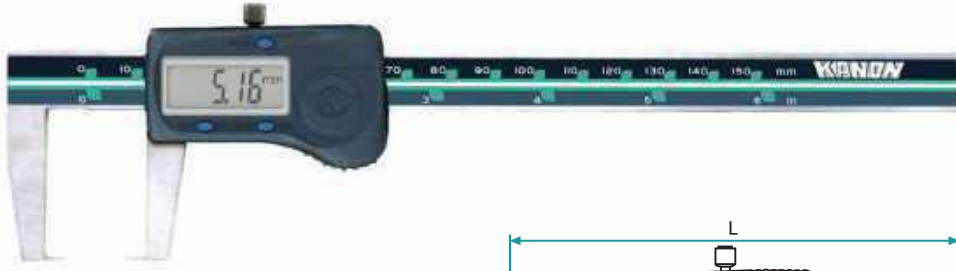
## SİVRİ UÇLU DİJİTAL KUMPAS

### Point Digital Caliper



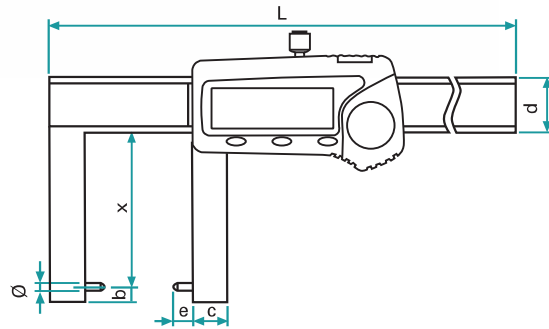
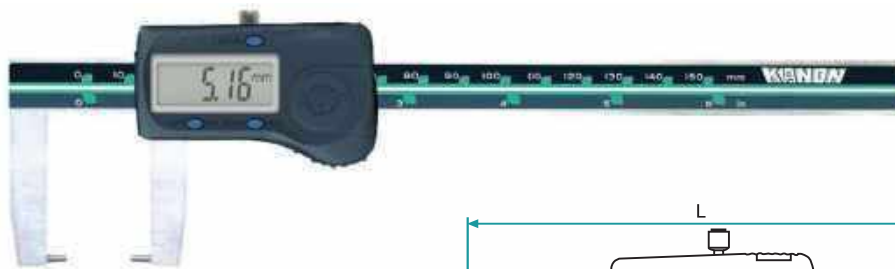
CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	x mm	b mm	c mm	d mm	Birim Fiyatı USD
184-154	0 - 150	0.01/.0005"	±0.03	170	30	17	12.5	13	177.00

## DIŞ OLUKLU DİJİTAL YASSI UÇLU KUMPAS Outside Groove Digital Calipers With Flat Points



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	x mm	b mm	c mm	d mm	e mm	Birim Fiyatı USD
187-154	0 - 150	0.01/.0005"	±0.03	250	40	15	1	16	5	<b>120.70</b>
187-205	0 - 200	0.01/.0005"	±0.04	310	50	19	1	16	7	<b>163.45</b>
187-306	0 - 300	0.01/.0005"	±0.04	400	60	21	1.5	17	8	<b>243.10</b>

## DIŞ OLUKLU DİJİTAL YUVARLAK UÇLU KUMPAS Outside Groove Digital Calipers With Round Points

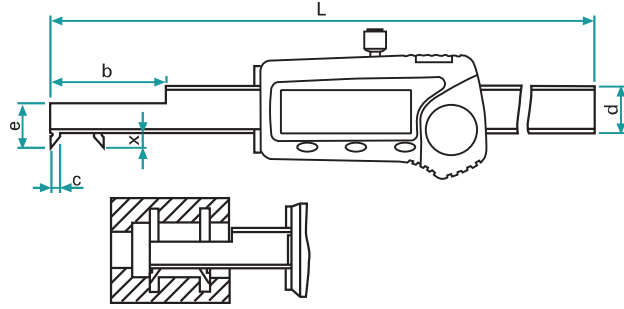


CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	x mm	b mm	c mm	d mm	e mm	Ø mm	Birim Fiyatı USD
188-154	0 - 150	0.01/.0005"	±0.03	250	40	3	10	16	5	2	<b>140.72</b>
188-205	0 - 200	0.01/.0005"	±0.04	300	50	3	12	16	8	2.5	<b>163.45</b>
188-306	0 - 300	0.01/.0005"	±0.04	410	60	3	14	17	10	2.5	<b>243.10</b>



## KANCA TİPİ DİJİTAL KUMPAS

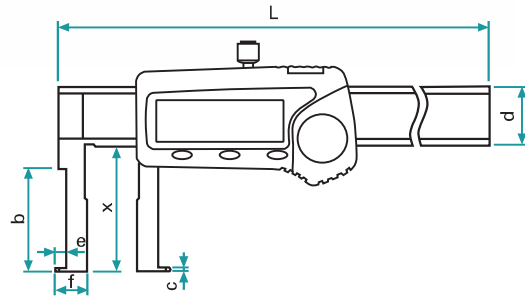
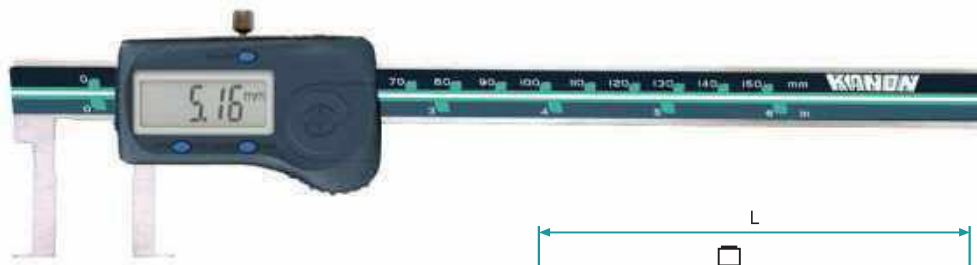
### Hook Type Digital Caliper



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	x mm	b mm	c mm	d mm	e mm	Birim Fiyatı USD
189-200	3 - 200	0.01/.0005"	±0.03	235	4	24	3	12.5	12	222.15

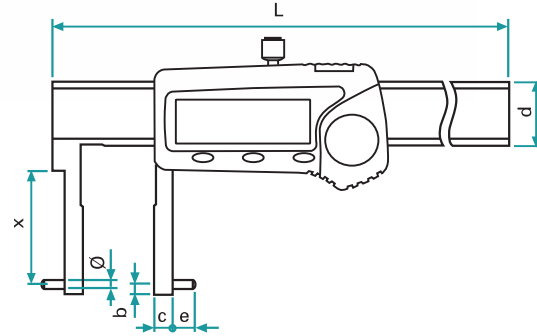
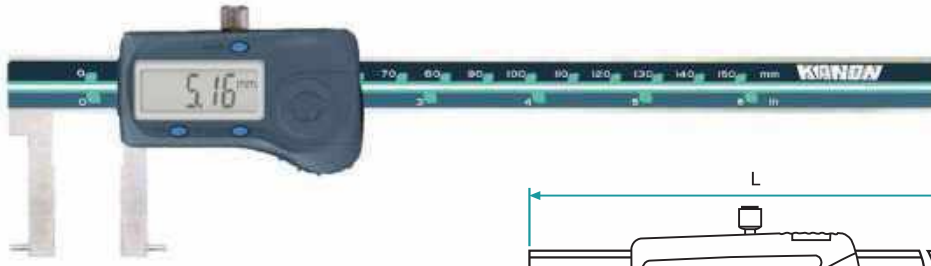
## İÇ OLUKLU DİJİTAL YASSI UÇLU KUMPASLAR

### Inside Groove Digital Calipers With Flat Points



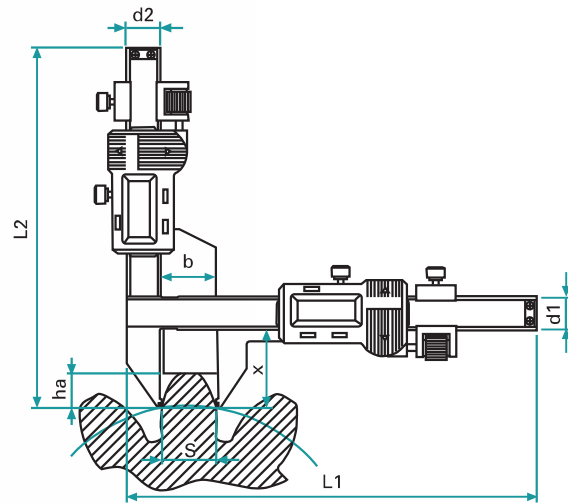
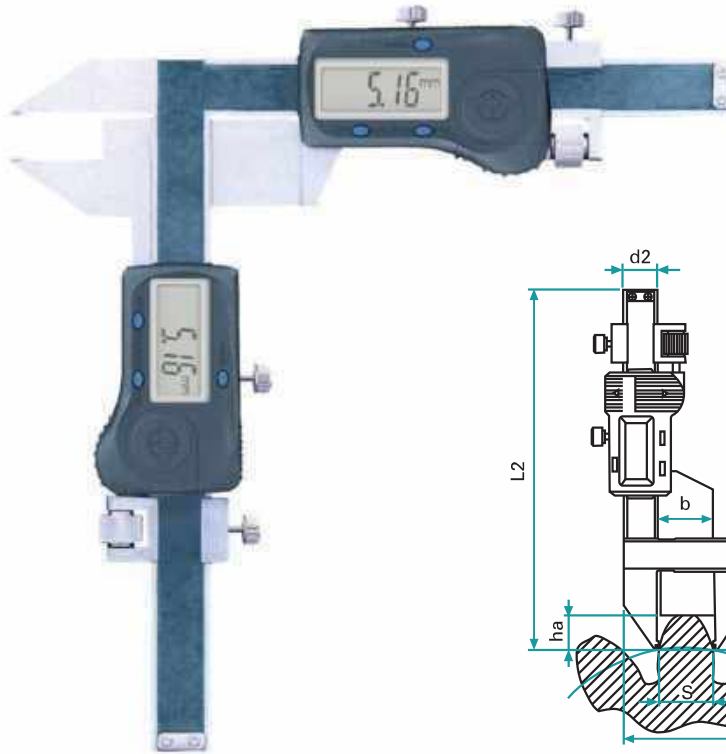
CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	x mm	b mm	c mm	d mm	e mm	f mm	Birim Fiyatı USD
190-153	22 - 150	0.01/.0005"	±0.04	250	36	30	1	16	5	11	183.55
190-204	25 - 200	0.01/.0005"	±0.04	310	46	40	1	16	5	12.5	249.80
190-305	30 - 300	0.01/.0005"	±0.05	410	56	50	1.5	17	7	15	323.55

## İÇ OLUKLU DİJİTAL YUVARLAK UÇLU KUMPASLAR Inside Groove Digital Calipers With Round Points



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	x mm	b mm	c mm	d mm	e mm	Ø mm	Birim Fiyatı USD
191-153	24 - 150	0.01/0.0005"	±0.04	250	30	3	7	16	5	2	188.60
191-204	25 - 200	0.01/0.0005"	±0.04	310	40	3	7.5	16	5	2	258.20
191-305	30 - 300	0.01/0.0005"	±0.06	410	50	3	17	16	8	3	331.10

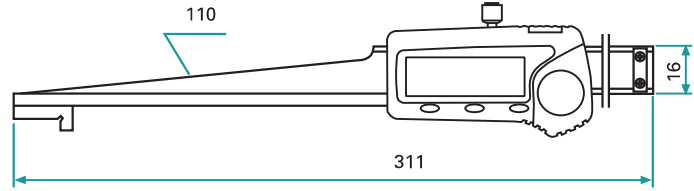
## DİJİTAL DİŞLİ ÇARK DİŞİ KUMPASLARI Digital Gear Tooth Calipers



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L1 mm	L2 mm	x mm	b mm	d1 mm	d2 mm	Birim Fiyatı USD
197-12-5	m1 - 25	0.01/0.0005"	±0.03	156	156.5	30.5	21	13	13	297.55
197-50	m5 - 50	0.01/0.0005"	±0.03	210	185.5	50.5	50.5	13	13	461.05

## KAMA TİPİ DİJİTAL KUMPAS

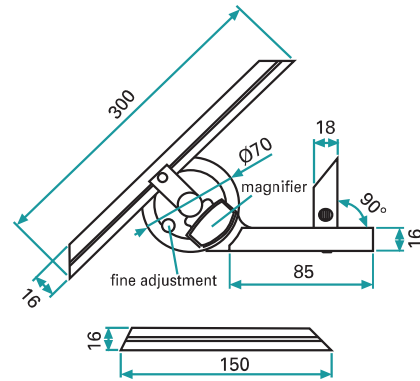
### Digital Caliper With Wedge Wype



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	Birim Fiyatı USD
197-10A	0.2 - 10	0.01/.0005"	±0.02	

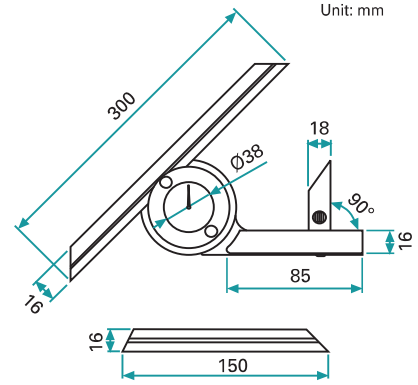
## UNIVERSAL DERECELİ AÇI ÖLÇERLER

### Universal Protractor



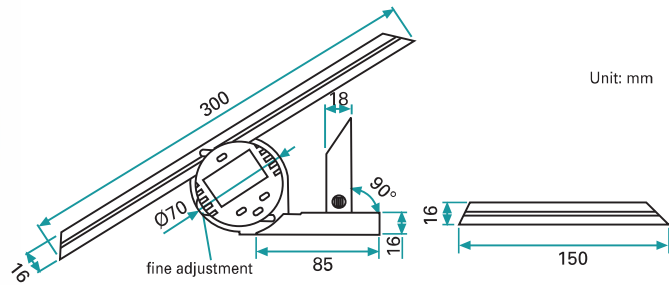
CODE	RANGE mm	BLADE LENGTH mm	ACCURACY	Birim Fiyatı USD
198-150A	0 - 360°	150	±5'	<b>165.98</b>
198-200A	0 - 360°	200	±5'	<b>174.28</b>
198-300A	0 - 360°	300	±5'	<b>183.50</b>

## SAATLİ UNİVERSAL DERECELİ AÇI ÖLÇERLER Dial Universal Protractors



CODE	RANGE mm	BLADE LENGTH mm	ACCURACY	Birim Fiyatı USD
198-150B	0 - 360°	150	±5'	<b>187.69</b>
198-200B	0 - 360°	200	±5'	<b>198.10</b>
198-300B	0 - 360°	300	±5'	<b>215.35</b>

## UNİVERSAL DİJİTAL AÇI ÖLÇERLER Universal Digital Protractors



CODE	RANGE mm	BLADE LENGTH mm	RESOLUTION	PERMISSIBLE ERROR	REPEATABILITY	OPERATING TEMPERATURE	Birim Fiyatı USD
198-150	1 X 360°	150	30" (0.008°)	±5' (±0.08°)	1'	0°C-40°C	<b>582.35</b>
198-200	2 X 180°	200	30" (0.008°)	±5' (±0.08°)	1'	0°C-40°C	<b>655.15</b>
198-300	4 X 90°	300	30" (0.008°)	±5' (±0.08°)	1'	0°C-40°C	<b>727.95</b>

# VERNIER TAKSİMATLI KUMPASLAR

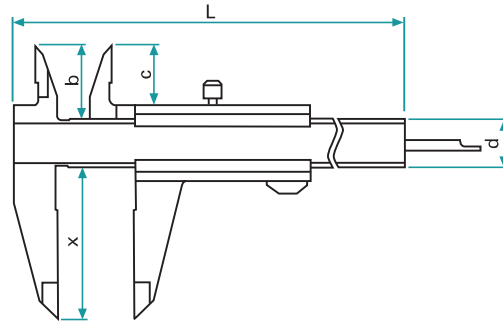
## Vernier Calipers



**LSM-150**  
**(122-150)**



**SM-150**  
**(123-150)**



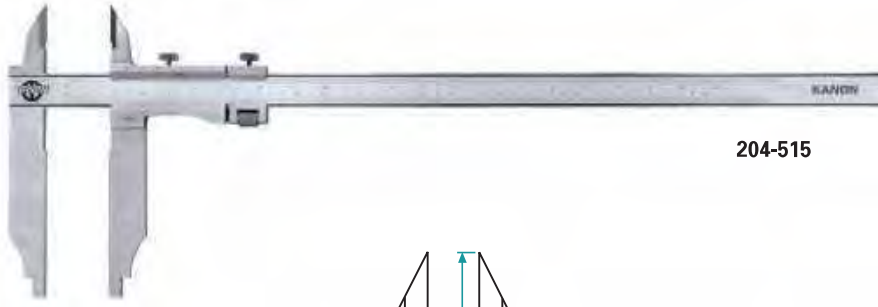
CODE	NEW CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	x mm	b mm	c mm	d mm	Birim Fiyatı USD
LSM-100	122-100	0 - 100	0.05	±0.05	150	30	10.5	10.5	13	
LSM-150	122-150	0 - 150	0.05	±0.05	236	40	21	16.5	16	<b>26.00</b>
LSM-200	122-200	0 - 200	0.05	±0.05	286	50	24	19.5	16	<b>52.00</b>
LSM-300	122-300	0 - 300	0.05	±0.08	400	60	25	20.5	17	<b>117.00</b>
SM-150	123-150	0 - 150	0.02	±0.03	236	40	21	16.5	16	<b>33.00</b>
SM-200	123-200	0 - 200	0.02	±0.03	286	50	24	19.5	16	<b>64.00</b>
SM-300	123-300	0 - 300	0.02	±0.04	400	60	25	20.5	17	<b>148.00</b>

## VERNIER TAKSİMATLI KUMPAKLAR - ÇİFT ÇENELİ

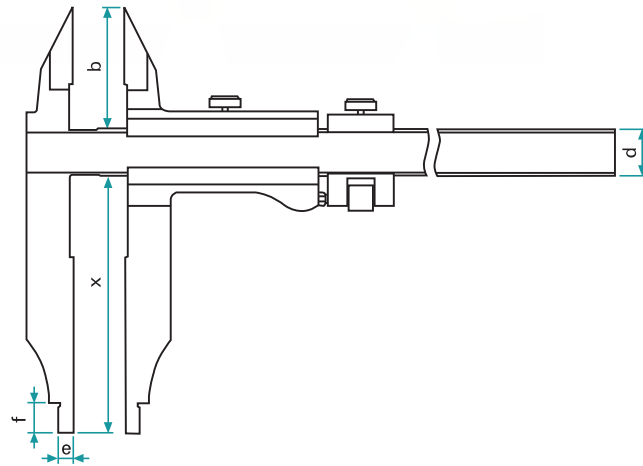
### Vernier Calipers With Double Jaws



203-515



204-515



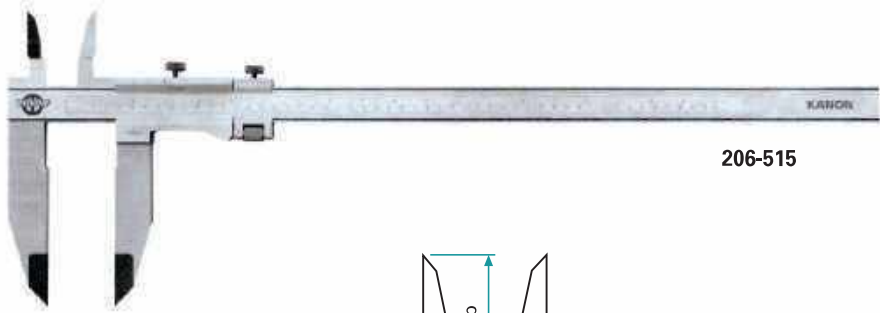
CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	Model	x mm	b mm	d mm	e mm	f mm	Birim Fiyatı USD
203-309	0-300	0.05/1/128"	±0.08	A	90	40	20	5	12	<b>238.99</b>
203-510	0-500	0.05/1/128"	±0.08	A	100	56	24	10	18	
203-515	0-500	0.05/1/128"	±0.08	A	150	56	24	10	18	<b>471.22</b>
203-610	0-600	0.05/1/128"	±0.08	A	100	56	24	10	18	
203-615	0-600	0.05/1/128"	±0.10	A	150	56	24	10	18	<b>604.90</b>
203-815	0-800	0.05/1/128"	±0.10	A	150	67	31	10	24	<b>913.61</b>
203-1015	0-1000	0.05/1/128"	±0.10	A	150	67	31	10	24	<b>1097.55</b>
203-1520	0-1500	0.05/1/128"	±0.15	A	200	80	42	10	24	
203-2020	0-2000	0.05/1/128"	±0.16	A	200	80	42	10	24	<b>3657.17</b>
204-309	0-300	0.02/0.001"	±0.04	A	90	40	20	5	12	<b>246.89</b>
204-510	0-500	0.02/0.001"	±0.05	A	100	56	24	10	18	
204-515	0-500	0.02/0.001"	±0.05	A	150	56	24	10	18	<b>483.02</b>
204-610	0-600	0.02/0.001"	±0.05	A	100	56	24	10	18	
204-615	0-600	0.02/0.001"	±0.07	A	150	56	24	10	18	<b>620.00</b>
204-815	0-800	0.02/0.001"	±0.07	A	150	67	31	10	24	<b>935.06</b>
204-1015	0-1000	0.02/0.001"	±0.07	A	150	67	31	10	24	<b>1185.50</b>
204-1520	0-1500	0.02/0.001"	±0.11	A	200	80	42	10	24	
204-2020	0-2000	0.02/0.001"	±0.14	A	200	80	42	10	24	<b>3701.58</b>

## VERNIER TAKSİMATLI KUMPASLAR - ÇİFT ÇENELİ

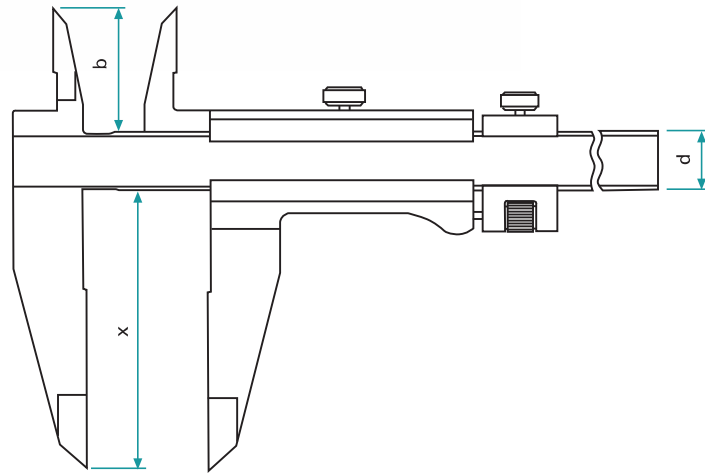
## Vernier Calipers With Double Jaws



205-515



206-515



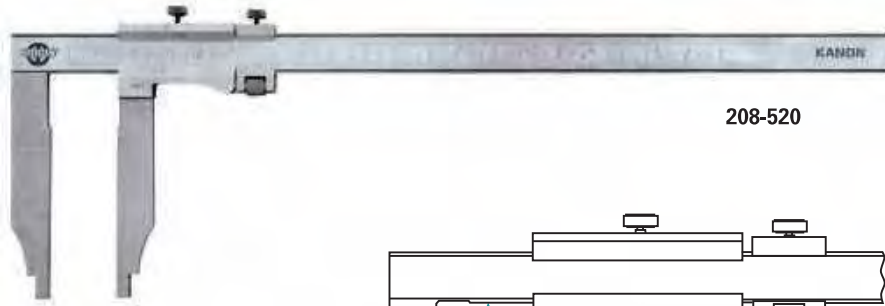
CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	Model	x mm	b mm	d mm	Birim Fiyatı USD
205-309	0-300	0.05	±0.08	A	90	42	20	221.24
205-510	0-500	0.05	±0.07	A	100	45	24	391.37
205-515	0-500	0.05	±0.08	A	150	45	24	440.32
205-610	0-600	0.05	±0.08	A	100	45	24	504.04
205-615	0-600	0.05	±0.10	A	150	45	24	566.75
205-815	0-800	0.05	±0.10	A	150	60	31	861.86
205-1015	0-1000	0.05	±0.10	A	150	60	31	1055.45
206-309	0-300	0.02	±0.04	A	90	42	20	224.54
206-510	0-500	0.02	±0.05	A	100	45	24	402.47
206-515	0-500	0.02	±0.05	A	150	45	24	451.47
206-610	0-600	0.02	±0.05	A	100	45	24	517.34
206-615	0-600	0.02	±0.07	A	150	45	24	580.55
206-815	0-800	0.02	±0.07	A	150	60	31	878.86
206-1015	0-1000	0.02	±0.07	A	150	60	31	1141.20
206-1020	0-1000	0.02	±0.07	A	200	60	31	1356.13

## VERNIER TAKSİMATLI KUMPAKLAR - TEK ÇENELİ

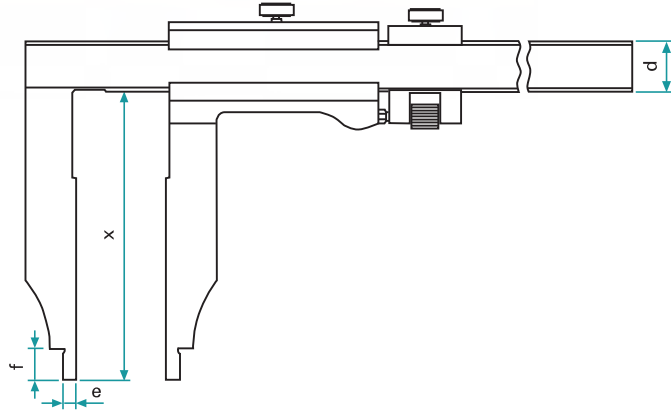
### Vernier Calipers With Single Jaws



207-520



208-520



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	Model	x mm	d mm	e mm	f mm	Birim Fiyatı USD
207-206-5	0-200	0.05/.001"	±0.05	A	65	20	5	12	
207-309	0-300	0.05/1/128"	±0.08	A	90	20	5	12	<b>227.94</b>
207-520	0-500	0.05/1/128"	±0.08	A	200	31	10	24	<b>461.58</b>
207-620	0-600	0.05/1/128"	±0.10	A	200	31	10	24	<b>603.45</b>
207-820	0-800	0.05/1/128"	±0.10	A	200	31	10	24	<b>837.00</b>
207-1020	0-1000	0.05/1/128"	±0.10	A	200	31	10	24	<b>1114.08</b>
207-1520	0-1500	0.05/1/128"	±0.15	A	200	42	10	24	
207-2020	0-2000	0.05/1/128"	±0.16	A	200	42	10	24	
207-2030	0-2000	0.05/1/128"	±0.20	A	300	50	10	24	<b>3627.66</b>
208-206-5	0-200	0.02/.001"	±0.03	A	65	20	5	12	
208-309	0-300	0.02/.001"	±0.04	A	90	20	5	12	<b>232.24</b>
208-520	0-500	0.02/.001"	±0.05	A	200	31	10	24	<b>468.18</b>
208-620	0-600	0.02/.001"	±0.07	A	200	31	10	24	<b>612.00</b>
208-820	0-800	0.02/.001"	±0.07	A	200	31	10	24	<b>846.05</b>
208-1020	0-1000	0.02/.001"	±0.07	A	200	31	10	24	<b>1118.65</b>
208-1520	0-1500	0.02/.001"	±0.11	A	200	42	10	24	
208-2020	0-2000	0.02/.001"	±0.14	A	200	42	10	24	
208-2030	0-2000	0.02/.001"	±0.14	A	300	50	10	24	<b>4245.00</b>

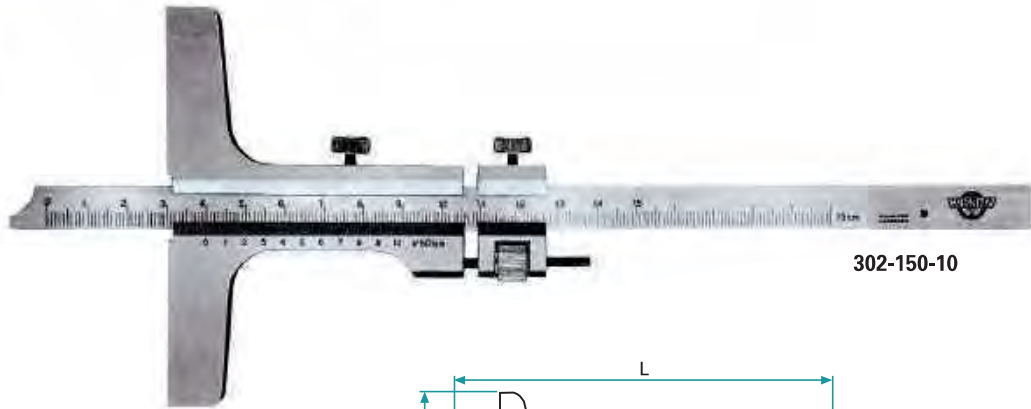


## VERNIER DERİNLİK KUMPASLAR

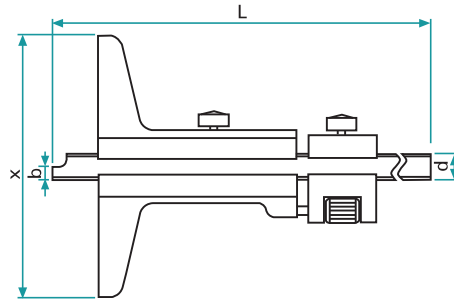
## Vernier Depth Gages



301-150-10



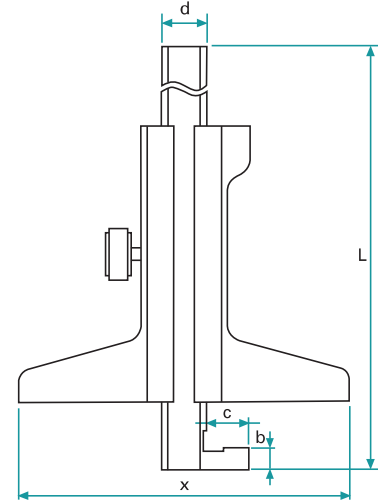
302-150-10



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	x mm	b mm	d mm	Birim Fiyatı USD
301-150-10	0-150	0.05	±0.05	250	100	5	10	92.00
301-210	0-200	0.05	±0.05	300	100	5	10	101.00
301-310	0-300	0.05	±0.08	400	100	5	10	123.00
301-515	0-500	0.05	±0.08	605	150	4	11	529.00
301-615	0-600	0.05	±0.10	705	150	4	11	728.00
301-820	0-800	0.05	±0.10	968	200	7	18	
301-1020	0-1000	0.05	±0.10	1168	200	7	18	1242.00
302-150-10	0-150	0.02	±0.03	250	100	5	10	100.00
302-210	0-200	0.02	±0.03	300	100	5	10	110.00
302-310	0-300	0.02	±0.04	400	100	5	10	134.00
302-515	0-500	0.02	±0.05	605	150	4	11	576.00
302-615	0-600	0.02	±0.07	705	150	4	11	792.00
302-820	0-800	0.02	±0.07	968	200	7	18	
302-1020	0-1000	0.02	±0.10	1168	200	7	18	1350.00

## VERNIER DERİNLİK KUMPAKLAR

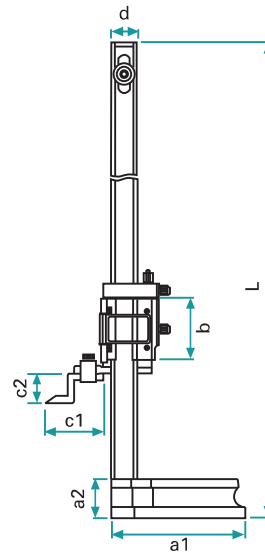
### Vernier Depth Gages



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L mm	x mm	b mm	c mm	d mm	Birim Fiyatı USD
303-150-10	0-150	0.05	±0.05	250	100	2	2.5	10	<b>97.00</b>
303-210	0-200	0.05	±0.05	300	100	2	2.5	10	<b>108.00</b>
303-310	0-300	0.05	±0.08	400	100	2	2.5	10	<b>196.00</b>
304-150-10	0-150	0.02	±0.03	250	100	2	2.5	10	<b>106.00</b>
304-210	0-200	0.02	±0.03	300	100	2	2.5	10	<b>116.00</b>
304-310	0-300	0.02	±0.04	400	100	2	2.5	10	<b>220.00</b>

## VERNIER MİHENGİRLER

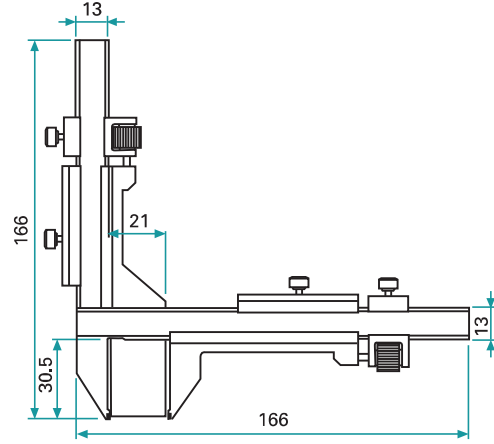
### Vernier Height Gages



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	L	a1	a2	b	c1	c2	d	Birim Fiyatı USD
305-300	0 - 300	0.02	±0.04	545	135	43	75	80	30	28	<b>286.00</b>
305-600	0 - 600	0.02	±0.07	870	180	54	85	80	41	35	<b>417.00</b>
305-1000	0 - 1000	0.02	±0.07	1310	270	70	85	204	50	40	<b>1040.00</b>

## DİŞLİ ÇARK DİŞİ KUMPASI

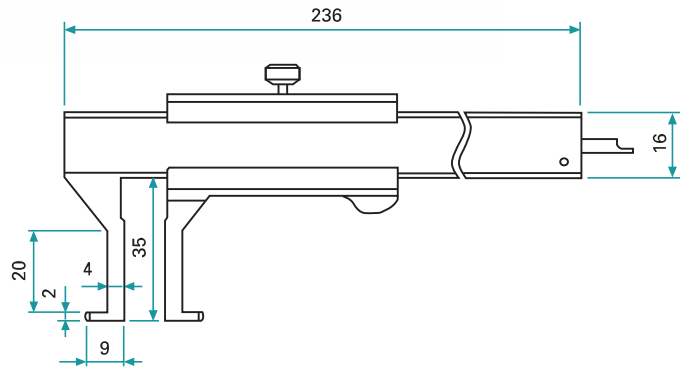
### Gear Tooth Vernier Caliper



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	Birim Fiyatı USD
306-25	1-25	0.02	±0.03	397.00

## İÇ OLUKLU VERNIER YASSI UÇLU KUMPASLAR

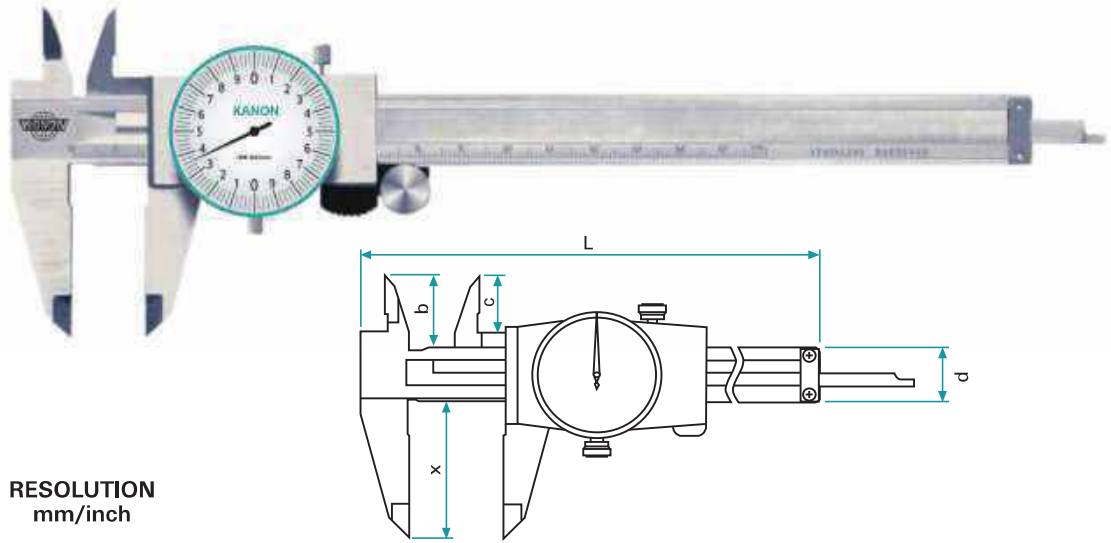
### Inside Groove Vernier Calipers With Flat Points



CODE	RANGE mm	RESOLUTION mm/inch	ACCURACY	Birim Fiyatı USD
307-153	18-150	0.02	±0.02	136.85

## SAATLİ KUMPASLAR (Monoblok)

### Dial Calipers (Mono Block Model)

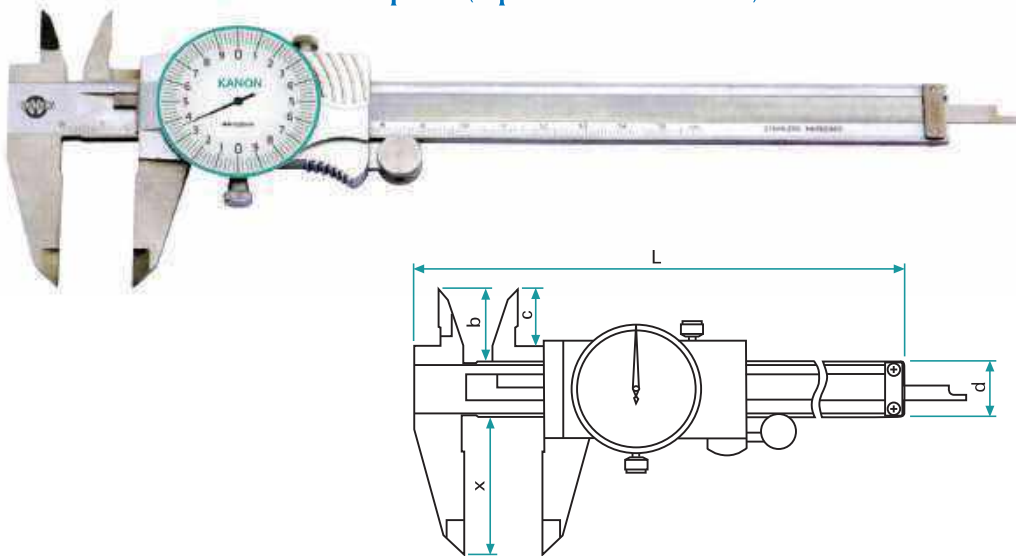


RESOLUTION  
mm/inch

CODE	RANGE mm	RESOLUTION mm	L mm	x mm	b mm	c mm	d mm	Birim Fiyatı USD
310-154	0-150	0.01	236	40	21	16.5	16	85.30
310-205	0-200	0.01	286	50	24	19.5	16	114.70
310-306	0-300	0.01	400	60	25	18.5	17	191.20
311-154	0-150	0.02	236	40	21	16.5	16	69.85
311-205	0-200	0.02	286	50	24	19.5	16	105.90
311-306	0-300	0.02	400	60	25	18.5	17	181.00

## SAATLİ KUMPASLAR (Açık Blok)

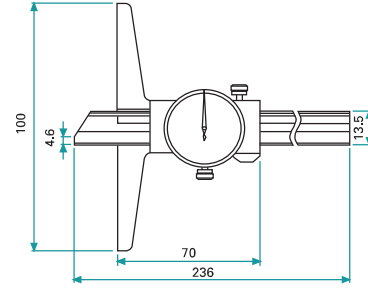
### Dial Calipers (Open Block Model)



CODE	RANGE mm	RESOLUTION mm	L mm	x mm	b mm	c mm	d mm	Birim Fiyatı USD
312-154	0-150	0.02	236	40	21	16.5	16	73.55
312-205	0-200	0.02	286	50	24	19.5	16	102.20
312-306	0-300	0.02	400	60	25	18.5	17	176.45

## SAATLİ DERİNLİK KUMPASI

### Dial Depth Gages



CODE	RANGE mm	RESOLUTION mm	Birim Fiyatı USD
313-150-10	0-150	0.02	88.00

## SİLİNDİR KOMPARATÖRLERİ

### Bore Gauges

#### SİLİNDİR KOMPARATÖRÜ Bore Gauge

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
1012-10	6 - 10	0.01	433.00
1012-18	10 - 18	0.01	189.00
1012-35	18 - 35	0.01	167.00
1012-60	35 - 60	0.01	167.00
1012-150	50 - 150	0.01	194.00
1012-160	100 - 160	0.01	285.00
1012-250	160 - 250	0.01	478.00
1012-450	250 - 450	0.01	540.00
1012-600	400 - 600	0.01	1020.00

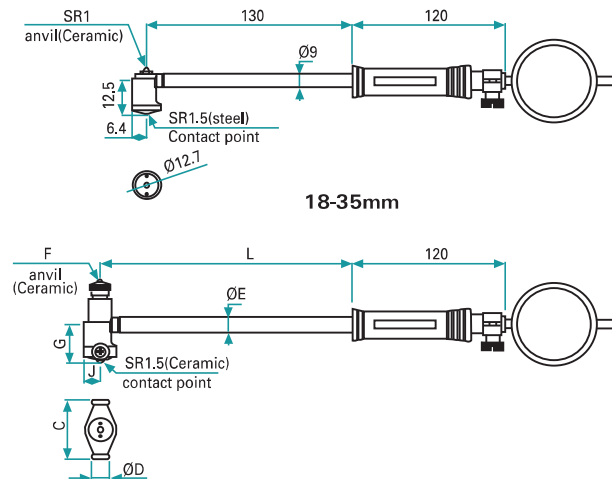


#### SİLİNDİR KOMPARATÖRÜ Bore Gauge

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
1013-10	6 - 10	0.001	503.00
1013-18	10 - 18	0.001	238.00
1013-35	18 - 35	0.001	217.00
1013-60	35 - 60	0.001	217.00
1013-150	50 - 150	0.001	241.00
1013-160	100 - 160	0.001	350.00
1013-250	160 - 250	0.001	543.00
1013-450	250 - 450	0.001	610.00
1013-600	400 - 600	0.001	1100.00



Unit: mm



#### Dimensions

RANGE mm	G mm	J mm	C mm	ØD mm	ØE mm	F mm	L mm
6 - 10							
10 - 18							
18 - 35	12.2	6.4	27	12.7	9	SR2	130
35 - 60	12.2	6.4	27	13	12.8	SR2	130
50 - 150	26	9	35	13	12.8	SR2	130
100 - 160	26	9	35	13	12.8	SR2	230
160 - 250	56.5	13	74.5	15	12.8	SR2	230
250 - 450	86.5	15	101.5	15	14.5	SR2.5	230
400 - 600							

# SİLİNDİR KOMPARATÖRLERİ

## Bore Gauges

### DİJİTAL SİLİNDİR KOMPARATÖRÜ Digital Bore Gauge

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
1015-10	6 - 10	0.01	743.00
1015-18	10 - 18	0.01	505.00
1015-35	18 - 35	0.01	485.00
1015-60	35 - 60	0.01	485.00
1015-150	50 - 150	0.01	509.00
1015-160	100 - 160	0.01	618.00
1015-250	160 - 250	0.01	811.00
1015-450	250 - 450	0.01	873.00

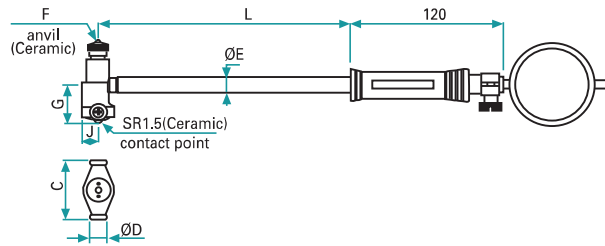
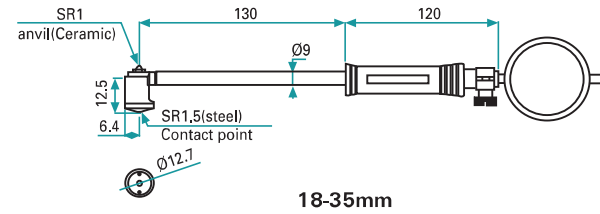


### DİJİTAL SİLİNDİR KOMPARATÖRÜ Digital Bore Gauge

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
1016-10	6 - 10	0.001	920.00
1016-18	10 - 18	0.001	696.00
1016-35	18 - 35	0.001	676.00
1016-60	35 - 60	0.001	676.00
1016-150	50 - 150	0.001	700.00
1016-160	100 - 160	0.001	810.00
1016-250	160 - 250	0.001	1000.00
1016-450	250 - 450	0.001	1065.00



Unit: mm

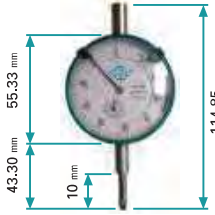


### Dimensions

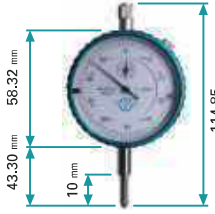
RANGE mm	G mm	J mm	C mm	ØD mm	ØE mm	F mm	L mm
6 - 10							
10 - 18							
18 - 35	12.2	6.4	27	12.7	9	SR2	130
35 - 60	12.2	6.4	27	13	12.8	SR2	130
50 - 150	26	9	35	13	12.8	SR2	130
100 - 160	26	9	35	13	12.8	SR2	130
160 - 250	56.5	13	74.5	15	12.8	SR2	230
250 - 450	86.5	15	101.5	15	14.5	SR2.5	230
400 - 600							

# KOMPARATÖR SAATLERİ

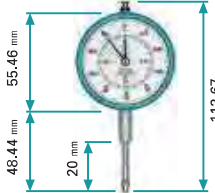
## Dial Indicators




CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
951-10	10	0.01	<b>34.00</b>
951-10F	10	0.01	<b>34.00</b>



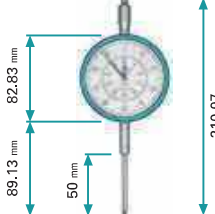
CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
952-10	10	0.01	<b>34.00</b>
952-10F	10	0.01	<b>34.00</b>




CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
953-20	20	0.01	<b>68.20</b>
953-20F	20	0.01	<b>68.20</b>



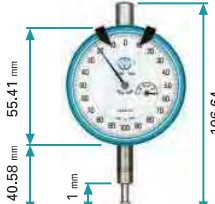
CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
953-30	30	0.01	<b>79.80</b>
953-30F	30	0.01	<b>79.80</b>



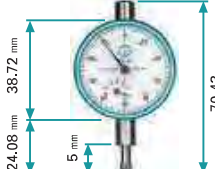
CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
953-50	50	0.01	<b>158.26</b>
953-50F	50	0.01	<b>158.26</b>



CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
953-100	100	0.01	<b>476.37</b>
953-100F	100	0.01	<b>476.37</b>



CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
957-1	1	0.001	<b>87.93</b>
957-1F	1	0.001	<b>87.93</b>



CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
959-5	5	0.01	<b>43.20</b>
959-5F	5	0.01	<b>43.20</b>



Kulaklı  
Lug Back



Kulaksız (F)  
Flat Back (F)

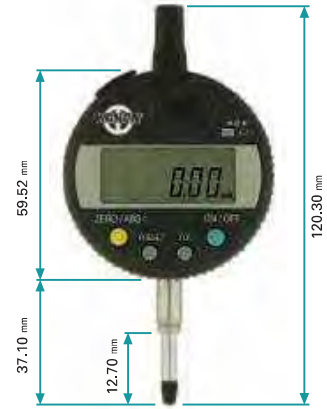
## DİJİTAL KOMPARATÖR SAATLERİ

### Digital Indicators

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
960-12	12.7	0.01	313.20



CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
961-12	12.7	0.01	447.00



CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
962-12	12.7	0.001	758.00



CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
963-12	12.7	0.001	497.00





## DİJİTAL KOMPARATÖR SAATLERİ

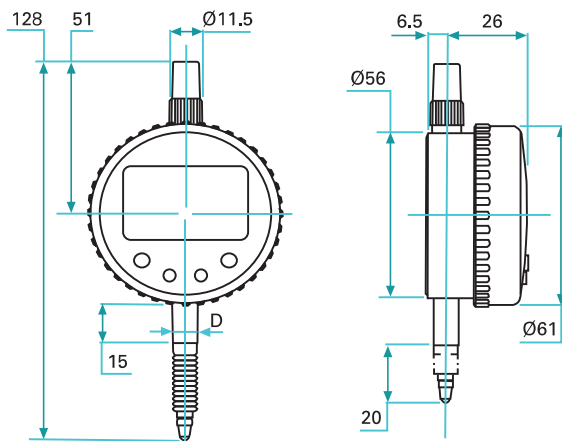
### Electronic Indicators



CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
1081-12	0-12.7	0.001	$\pm 5\mu\text{m}$	<b>523.37</b>
1082-12	0-12.7	0.001	$\pm 10\mu\text{m}$	
1083-12	0-12.7	0.001	$\pm 20\mu\text{m}$	
1084-12	0-12.7	0.001	$\pm 3\mu\text{m}$	<b>534.15</b>
1085-12	0-12.7	0.001	$\pm 3\mu\text{m}$	
1086-30	0-30	0.001	$\pm 3\mu\text{m}$	

#### Specifications:


- Protection level IP54, Criterion din40050/IEC529.
- Large LCD 43X28mm, can be rotated  $\pm 170^\circ$  for easy reading.
- Digital display and analog display on LCD, automatic switch over.
- Analog display range:  $\pm 20$  Graduation.



Power ON/OFF	☆
Abs. and inc. conversion	☆
Metric/inch conversion	☆
Data output	☆
Origin data set	☆
Tolerance set	☆
Measuring direction	☆
Battery	CR2032
Automatic power off	☆
Power consumption	<50 $\mu\text{A}$
RS232 data output	☆
Connecting cable(Optional)	P1103 or P1104


## SALGI KOMPARATÖRLERİ

### Dial Test Indicators



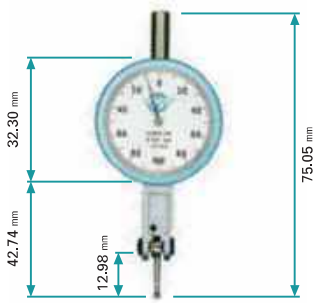
Dimensions: 32.37 mm (dial diameter), 47.67 mm (total height), 17.42 mm (base height), 80.44 mm (total height including base).

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
965-08	0.8	0.01	73.80



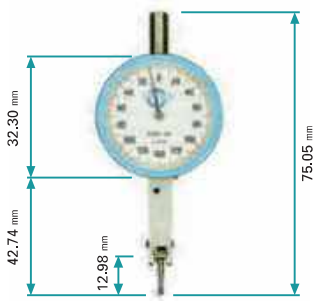
Dimensions: 32.37 mm (dial diameter), 36.80 mm (base height), 102.10 mm (total height).

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
965-1	1	0.01	178.20



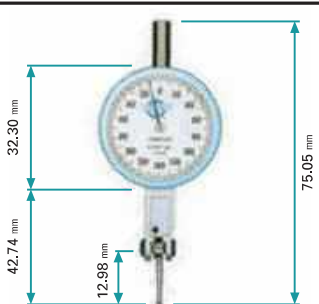
Dimensions: 32.30 mm (dial diameter), 42.74 mm (total height), 12.98 mm (base height), 75.05 mm (total height including base).

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
966-02	0.2	0.001	306.05



Dimensions: 32.30 mm (dial diameter), 42.74 mm (total height), 12.98 mm (base height), 75.05 mm (total height including base).

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
967-02	0.2	0.002	155.90



Dimensions: 32.30 mm (dial diameter), 42.74 mm (total height), 12.98 mm (base height), 75.05 mm (total height including base).

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
968-02	0.28	0.002	187.50

## KOMPARATÖRLER

## Gauges

969-220

**DERİNLİK KOMPARATÖRÜ**  
Dial Depth Gauge

969-230

CODE	RANGE mm	KÖPRÜ UZUNLUĞU BRIDGE LENGTH mm	RESOLUTION	Birim Fiyatı USD
969-220	0-220	100	0.01	<b>225.00</b>
969-230	0-230	200	0.01	<b>272.00</b>

970-25

**KALINLIK KOMPARATÖRÜ**  
Thickness Gauge

970-120

CODE	RANGE mm	MAX. MEASURING DEPTH mm	RESOLUTION	Birim Fiyatı USD
970-25	10	25	0.01	<b>114.00</b>
970-120	10	120	0.01	<b>162.00</b>

970-260

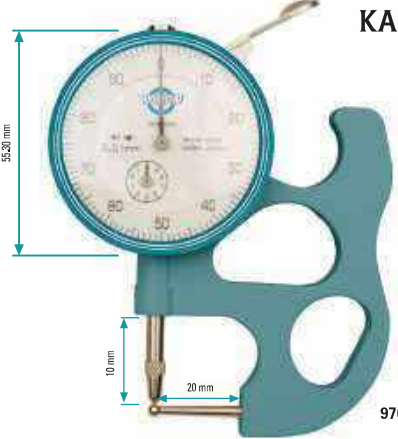
**KALINLIK KOMPARATÖRÜ**  
Thickness Gauge

CODE	RANGE mm	MAX. MEASURING DEPTH mm	RESOLUTION	Birim Fiyatı USD
970-260	10	260	0.01	<b>250.00</b>

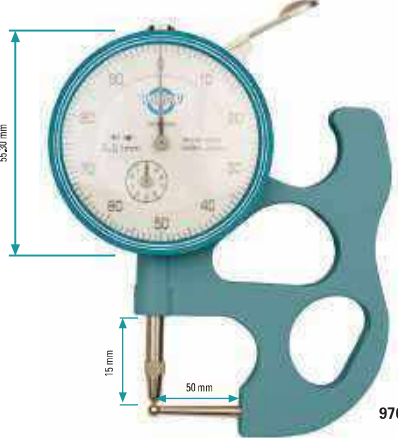
## KOMPARATÖRLER

### Gauges

**KALINLIK KOMPARATÖRÜ**  
Thickness Gauge



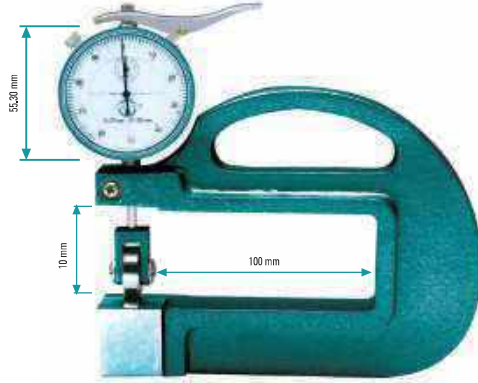
970-20A



970-50B


CODE	RANGE mm	MAX. MEASURING DEPTH mm	RESOLUTION	Birim Fiyatı USD
970-20A	10	20	0.01	<b>130.00</b>
970-50B	15	50	0.01	<b>190.00</b>

**TEKERLEKLİ KALINLIK KOMPARATÖRÜ**  
Thickness Gauge With Rolling Wheel



CODE	RANGE mm	MAX. MEASURING DEPTH mm	RESOLUTION	Birim Fiyatı USD
971-10	0-10	100	0.01	<b>135.00</b>

**DİJİTAL KALINLIK KOMPARATÖRÜ**  
Digital Thickness Gauge



CODE	RANGE mm	MAX. MEASURING DEPTH mm	RESOLUTION	Birim Fiyatı USD
972-10	0-10	25	0.01	<b>262.30</b>

# DIJİTAL KALINLIK KOMPARATÖRÜ

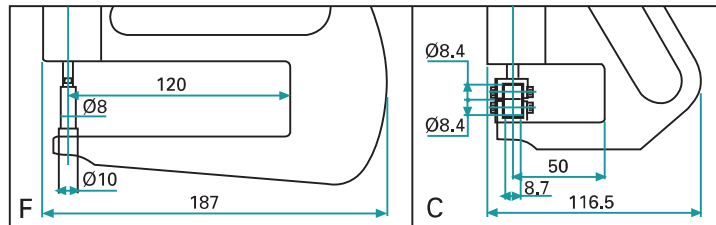
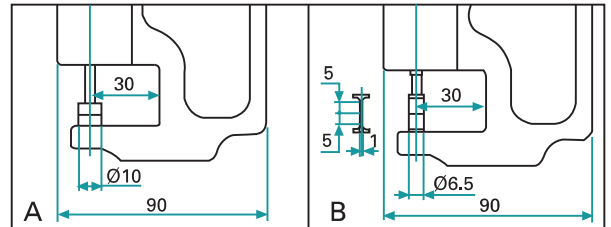
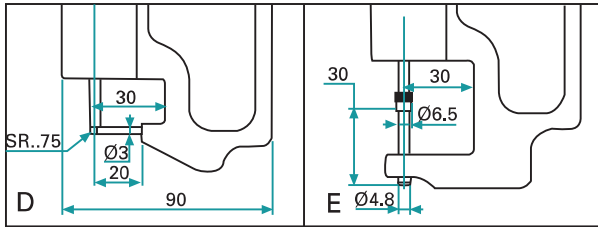
## Digital Thickness Gages



### Specifications:

- Various anvils for measuring depth of diversiform materail. Special anvils can be supplied on request.
- Travel of indicator: 12 mm.

CODE	RANGE mm	RESOLUTION	MODEL	Birim Fiyatı USD
973-10A	10	0.001	A	
973-10B	10	0.001	B	
973-5C	5	0.001	C	
973-10D	10	0.001	D	
973-10E	10	0.001	E	
973-10F	10	0.001	F	



## DİJİTAL KOMPARATÖR İÇ ÖLÇÜMLER İÇİN Digita Caliper Gauges for Inside Measurement



### Specifications:

- Electronic inside caliper gauges are suited for measuring bores, internal groove, and other hard-to-reach inside dimension.
- Dial rotates  $\pm 170^\circ$  for use at versions angles.
- Display data is origin data of absolute measurement after changing battery.
- Digital display and analog display on LCD, automatic switch over.
- Analog display range:  $\pm 20$  graduation.
- Digital resolution: 0.005mm(Metric); 0.0002"(Inch). Analog resolution: 0.01mm; 0.02mm; 0.05mm(Metric); 0.0005"; 0.001"; 0.002"(Inch).

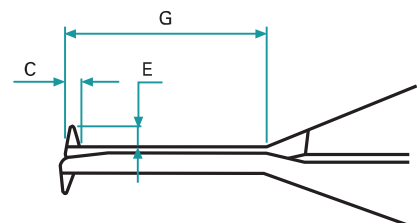
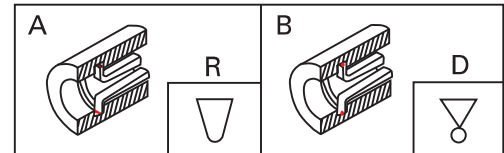
CODE	RANGE mm	RESOLUTION	ACCURACY	MODEL	Birim Fiyatı USD
1031-15	5-15	0.005	$\pm 2\mu\text{m}$	A	
1031-20	10-20	0.005	$\pm 2\mu\text{m}$	A	
1031-30	20-30	0.005	$\pm 2\mu\text{m}$	A	
1031-40	30-40	0.005	$\pm 2\mu\text{m}$	A	
1031-50	40-50	0.005	$\pm 2\mu\text{m}$	A	
1032-20	10-20	0.005	$\pm 2\mu\text{m}$	B	
1032-30	20-30	0.005	$\pm 2\mu\text{m}$	B	
1032-40	30-40	0.005	$\pm 2\mu\text{m}$	B	
1032-50	40-50	0.005	$\pm 2\mu\text{m}$	B	

CODE	RANGE mm	RESOLUTION	ACCURACY	MODEL	Birim Fiyatı USD
1033-25	5-25	0.005	$\pm 3\mu\text{m}$	A	
1033-30	10-30	0.005	$\pm 3\mu\text{m}$	A	
1033-40	20-40	0.005	$\pm 3\mu\text{m}$	A	
1033-50	30-50	0.005	$\pm 3\mu\text{m}$	A	
1033-60	40-60	0.005	$\pm 3\mu\text{m}$	A	
1034-30	10-30	0.005	$\pm 3\mu\text{m}$	B	
1034-40	20-40	0.005	$\pm 3\mu\text{m}$	B	
1034-50	30-50	0.005	$\pm 3\mu\text{m}$	B	
1034-60	40-60	0.005	$\pm 3\mu\text{m}$	B	

RANGE mm	DIMENSIONS			Remarks	
	G	C	E	A (R)	A (D)
<b>Travel 10mm</b>					
5-15	20	1.0	1.5	0.3	/
10-20	25	1.5	3.0	0.3	$\varnothing 1.5$
20-30	30	2.0	6.5	0.5	$\varnothing 1.5$
30-40	30	2.5	9.0	0.5	$\varnothing 1.5$
40-50	30	2.5	9.0	0.5	$\varnothing 1.5$
<b>Travel 20mm</b>					
5-25	35	1	1.5	0.3	/
10-30	55	2	3.5	0.5	$\varnothing 1.5$
20-40	80	3	6.5	0.5	$\varnothing 1.5$
30-50	80	3	8.5	0.5	$\varnothing 1.5$
40-60	80	3	8.5	0.5	$\varnothing 1.5$

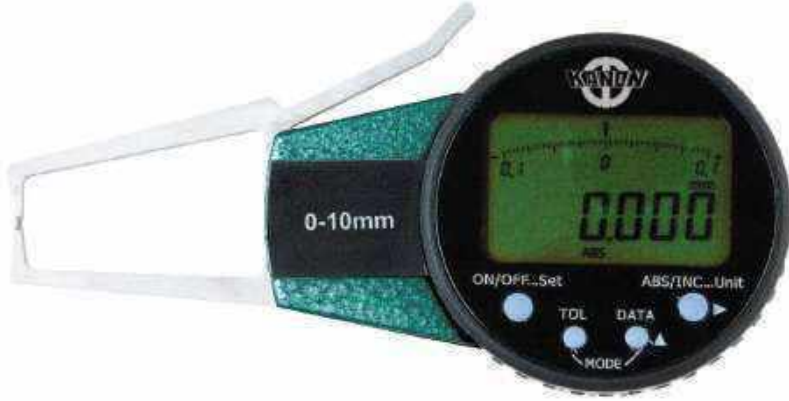
Power ON/OFF	☆
Abs. and inc. conversion	☆
Metric-inch conversion	☆
Data output	☆
Origin data set	☆
Remember data of Max. and Min. or hold display data	☆
Tolerance set	☆
Battery	CR2032
Automatic power off	☆
Power consumption	$< 50\mu\text{A}$
RS232 data output	☆
Connecting cable(Optional)	P1103 or P1104

### Temas Şekilleri / Measuring contact forms



## DİJİTAL KOMPARATÖR DIŞ ÖLÇÜMLER İÇİN

### Digital Caliper Gauges for Outside Measurement



#### Specifications:

- Electronic outside caliper gauges are suited for measuring grooves and other hard-to-read outside dimension.
  - Dial rotates  $\pm 170^\circ$  for use at versions angles.
  - Display data is origin data of absolute measurement after changing battery.
  - Digital display and analog display on LCD, automatic switch over.
  - Analog display range:  $\pm 20$  graduation.
  - Digital resolution: 0.005mm(Metric); 0.0002"(Inch).
- Analog resolution:  
0.01mm; 0.02mm; 0.05mm(Metric);  
0.0005"; 0.001"; 0.002"(Inch).

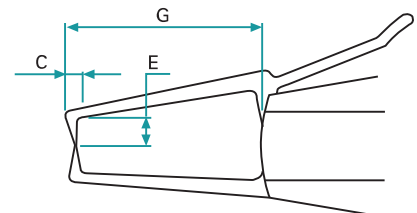
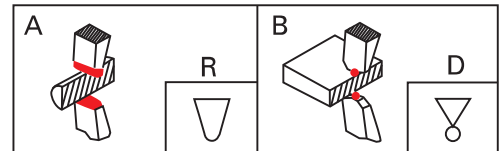
CODE	RANGE mm	RESOLUTION	ACCURACY	MODEL	Birim Fiyatı USD
1035-10	0-10	0.005	$\pm 2\mu\text{m}$	A	
1035-20	10-20	0.005	$\pm 2\mu\text{m}$	A	
1035-30	20-30	0.005	$\pm 2\mu\text{m}$	A	
1035-40	30-40	0.005	$\pm 2\mu\text{m}$	A	
1035-50	40-50	0.005	$\pm 2\mu\text{m}$	A	
1036-10	0-10	0.005	$\pm 2\mu\text{m}$	B	
1036-20	10-20	0.005	$\pm 2\mu\text{m}$	B	
1036-30	20-30	0.005	$\pm 2\mu\text{m}$	B	
1036-40	30-40	0.005	$\pm 2\mu\text{m}$	B	
1036-50	40-50	0.005	$\pm 2\mu\text{m}$	B	

CODE	RANGE mm	RESOLUTION	ACCURACY	MODEL	Birim Fiyatı USD
1037-20	0-20	0.005	$\pm 3\mu\text{m}$	A	
1037-30	10-30	0.005	$\pm 3\mu\text{m}$	A	
1037-40	20-40	0.005	$\pm 3\mu\text{m}$	A	
1037-50	30-50	0.005	$\pm 3\mu\text{m}$	A	
1037-60	40-60	0.005	$\pm 3\mu\text{m}$	A	
1038-20	0-20	0.005	$\pm 3\mu\text{m}$	B	
1038-30	10-30	0.005	$\pm 3\mu\text{m}$	B	
1038-40	20-40	0.005	$\pm 3\mu\text{m}$	B	
1038-50	30-50	0.005	$\pm 3\mu\text{m}$	B	
1038-60	40-60	0.005	$\pm 3\mu\text{m}$	B	

RANGE mm	DIMENSIONS			Remarks	
	G	C	E	A (R)	A (D)
<b>Travel 10mm</b>					
0-10	40	3	8	0.5	$\varnothing 1.5$
10-20	40	3	8	0.5	$\varnothing 1.5$
20-30	40	3	8	0.5	$\varnothing 1.5$
30-40	40	3	8	0.5	$\varnothing 1.5$
40-50	40	3	8	0.5	$\varnothing 1.5$
<b>Travel 20mm</b>					
0-20	80	6.5	0.75	0.75	$\varnothing 1.5$
10-30	80	6.5	0.75	0.75	$\varnothing 1.5$
20-40	80	6.5	0.75	0.75	$\varnothing 1.5$
30-50	80	6.5	0.75	0.75	$\varnothing 1.5$
40-60	80	6.5	0.75	0.75	$\varnothing 1.5$

Power ON/OFF	☆
Abs. and inc. conversion	☆
Metric-inch conversion	☆
Data output	☆
Origin data set	☆
Remember data of Max. and Min. or hold display data	☆
Tolerance set	☆
Battery	CR2032
Automatic power off	☆
Power consumption	$< 50\mu\text{A}$
RS232 data output	☆
Connecting cable(Optional)	P1103 or P1104

#### Temas Şekilleri / Measuring contact forms



## KOMPARATÖR İÇ ÖLÇÜMLER İÇİN Caliper Gauges for Inside Measurement



### Specifications:

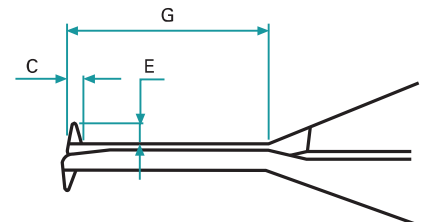
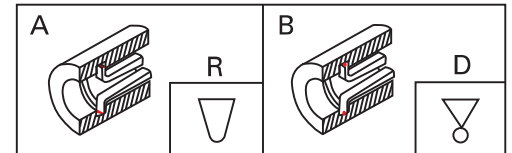
- Inside caliper gauges are suited for measuring bores, internal groove, and other hard-to-reach inside dimension.
- Resolution: 0.01mm(Metric); 0.0005"(Inch).

CODE	RANGE mm	RESOLUTION	ACCURACY	MODEL	Birim Fiyatı USD
1041-15	5-15	0.01	±2µm	A	
1041-20	10-20	0.01	±2µm	A	
1041-30	20-30	0.01	±2µm	A	
1041-40	30-40	0.01	±2µm	A	
1041-50	40-50	0.01	±2µm	A	
1042-20	10-20	0.01	±2µm	B	
1042-30	20-30	0.01	±2µm	B	
1042-40	30-40	0.01	±2µm	B	
1042-50	40-50	0.01	±2µm	B	

CODE	RANGE mm	RESOLUTION	ACCURACY	MODEL	Birim Fiyatı USD
1043-25	5-25	0.01	±3µm	A	
1043-30	10-30	0.01	±3µm	A	
1043-40	20-40	0.01	±3µm	A	
1043-50	30-50	0.01	±3µm	A	
1043-60	40-60	0.01	±3µm	A	
1044-30	10-30	0.01	±3µm	B	
1044-40	20-40	0.01	±3µm	B	
1044-50	30-50	0.01	±3µm	B	
1044-60	40-60	0.01	±3µm	B	

RANGE mm	DIMENSIONS			Remarks	
	G	C	E	A (R)	A (D)
<b>Travel 10mm</b>					
5-15	20	1.0	1.5	0.3	/
10-20	25	1.5	3.0	0.3	Ø1.5
20-30	30	2.0	6.5	0.5	Ø1.5
30-40	30	2.5	9.0	0.5	Ø1.5
40-50	30	2.5	9.0	0.5	Ø1.5
<b>Travel 20mm</b>					
5-25	35	1	1.5	0.3	/
10-30	55	2	3.5	0.5	Ø1.5
20-40	80	3	6.5	0.5	Ø1.5
30-50	80	3	8.5	0.5	Ø1.5
40-60	80	3	8.5	0.5	Ø1.5

### Temas Şekilleri / Measuring contact forms





## KOMPARATÖR DIŞ ÖLÇÜMLER İÇİN

### Caliper Gauges for Outside Measurement



#### Specifications:

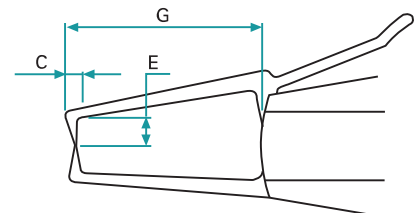
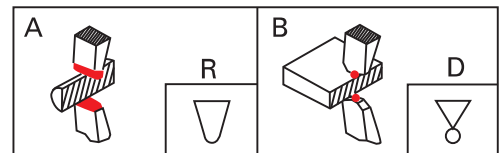
- Outside caliper gauges are suited for measuring grooves and other hard-to-read outside dimension.
- Resolution: 0.01mm(Metric); 0.0005"(Inch).

CODE	RANGE mm	RESOLUTION	ACCURACY	MODEL	Birim Fiyatı USD
1045-10	0-10	0.01	$\pm 2\mu\text{m}$	A	
1045-20	10-20	0.01	$\pm 2\mu\text{m}$	A	
1045-30	20-30	0.01	$\pm 2\mu\text{m}$	A	
1045-40	30-40	0.01	$\pm 2\mu\text{m}$	A	
1045-50	40-50	0.01	$\pm 2\mu\text{m}$	A	
1046-10	0-10	0.01	$\pm 2\mu\text{m}$	B	
1046-20	10-20	0.01	$\pm 2\mu\text{m}$	B	
1046-30	20-30	0.01	$\pm 2\mu\text{m}$	B	
1046-40	30-40	0.01	$\pm 2\mu\text{m}$	B	
1046-50	40-50	0.01	$\pm 2\mu\text{m}$	B	

CODE	RANGE mm	RESOLUTION	ACCURACY	MODEL	Birim Fiyatı USD
1047-20	0-20	0.01	$\pm 3\mu\text{m}$	A	
1047-30	10-30	0.01	$\pm 3\mu\text{m}$	A	
1047-40	20-40	0.01	$\pm 3\mu\text{m}$	A	
1047-50	30-50	0.01	$\pm 3\mu\text{m}$	A	
1047-60	40-60	0.01	$\pm 3\mu\text{m}$	A	
1048-20	0-20	0.01	$\pm 3\mu\text{m}$	B	
1048-30	10-30	0.01	$\pm 3\mu\text{m}$	B	
1048-40	20-40	0.01	$\pm 3\mu\text{m}$	B	
1048-50	30-50	0.01	$\pm 3\mu\text{m}$	B	
1048-60	40-60	0.01	$\pm 3\mu\text{m}$	B	

RANGE mm	DIMENSIONS			Remarks	
	G	C	E	A (R)	A (D)
<b>Travel 10mm</b>					
0-10	40	3	8	0.5	$\varnothing 1.5$
10-20	40	3	8	0.5	$\varnothing 1.5$
20-30	40	3	8	0.5	$\varnothing 1.5$
30-40	40	3	8	0.5	$\varnothing 1.5$
40-50	40	3	8	0.5	$\varnothing 1.5$
<b>Travel 20mm</b>					
0-20	80	6.5	0.75	0.75	$\varnothing 1.5$
10-30	80	6.5	0.75	0.75	$\varnothing 1.5$
20-40	80	6.5	0.75	0.75	$\varnothing 1.5$
30-50	80	6.5	0.75	0.75	$\varnothing 1.5$
40-60	80	6.5	0.75	0.75	$\varnothing 1.5$

#### Temas Şekilleri / Measuring contact forms



### TESTERE DİŞİ AYAR KOMPARATÖRÜ / Saw Setting Dial Gauge



front



back

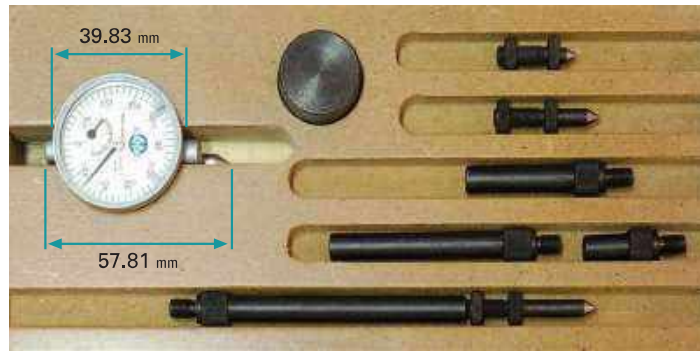
CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
975-2	0-2	0.02	334.00

### SHORE SERTLİK ÖLÇME / Shore Durometers



CODE	MODEL	ÖZELLİKLER / SPECIFICATIONS	Birim Fiyatı USD
976-A	A	Yumuşak Kauçuk Ölçmek İçin <i>For measuring the hardness of soft rubbers</i>	298.00
976-D	D	Sert Plastik Ölçmek İçin <i>For measuring the hardness of hard plastics</i>	342.00

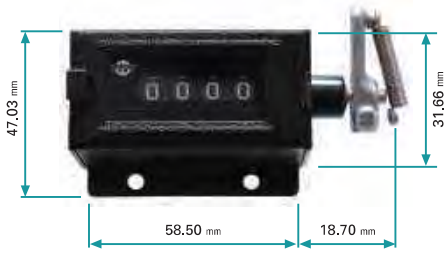
### DEFLEKSİYON GEYÇ KOMPARATÖRÜ / Crank Shank Dial Indicator



CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
977-300	60-300 mm.	0.01	305.00
977-500	60-500 mm.	0.01	315.00

## MAKİNA SAYAÇLARI

### Counters



CODE	ÖZELLİKLERİ Specifications	Birim Fiyatı USD
<b>984-4</b>	ÇARPMALI ÜSTTEN SIFIRLAMALI 4 HANELİ	<b>22.61</b>



CODE	ÖZELLİKLERİ Specifications	Birim Fiyatı USD
<b>986-5</b>	ÇARPMALI YANDAN SIFIRLAMALI 5 HANELİ	<b>24.34</b>



CODE	ÖZELLİKLERİ Specifications	Birim Fiyatı USD
<b>988-5</b>	DÖNMELİ ÜSTTEN SIFIRLAMALI 5 HANELİ	<b>24.15</b>



CODE	ÖZELLİKLERİ Specifications	Birim Fiyatı USD
<b>989-10</b>	TEKERLEKLİ UZUNLUK SAYACI ÜSTTEN SIFIRLAMALI 5 HANELİ	<b>147.00</b>

## MANYETİK AYAKLAR Magnetic Stands



CODE	MAGNETIC FORCE	Birim Fiyatı USD
981-60	60 kg.	42.00



### UNİVERSAL MANYETİK AYAKLAR Aniversal Magnetic Stand

CODE	MAGNETIC FORCE	Birim Fiyatı USD
982-60	60 kg.	267.00



### UNİVERSAL MANYETİK AYAKLAR Aniversal Magnetic Stand

CODE	MAGNETIC FORCE	Birim Fiyatı USD
983-60	60 kg.	312.00

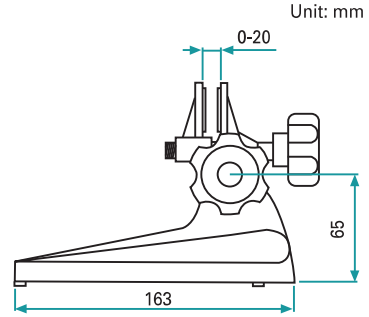


### ESNEK KOLLU MANYETİK AYAKLAR Flex Arm Magnetic Stand

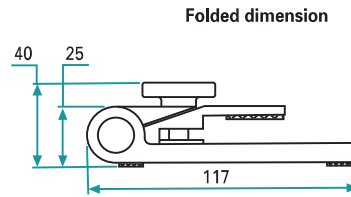
CODE	MAGNETIC FORCE	Birim Fiyatı USD
983-80A	80 kg.	95.00

## MİKROMETRE STANDLARI (Holders)

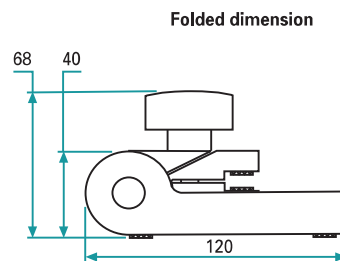
### Micrometer Holders (Stands)



CODE	Birim Fiyatı USD
995-163	62.00



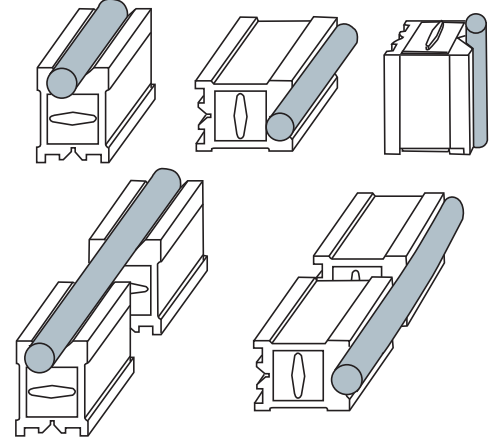
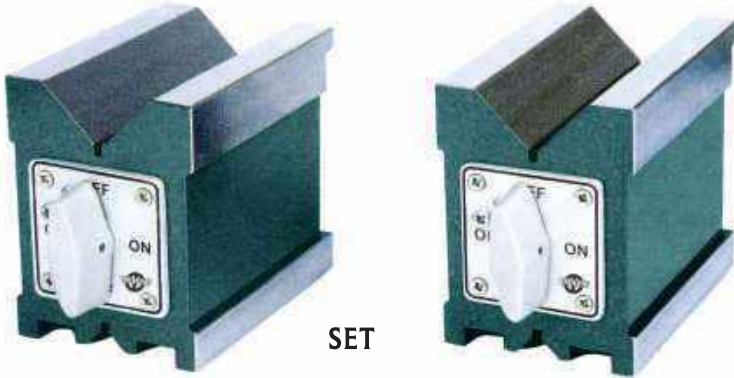
CODE	Birim Fiyatı USD
995-117	64.00



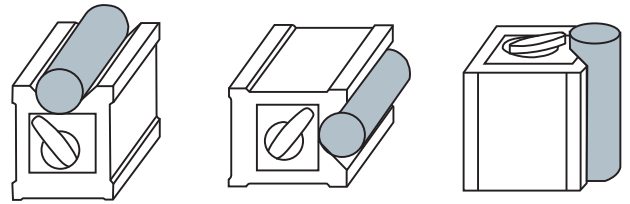
CODE	Birim Fiyatı USD
995-120	68.00

## MANYETİK V BLOK

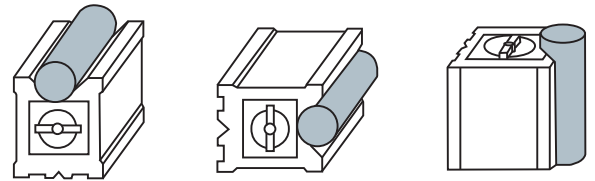
### Magnetic V-Block



CODE	Size (LxWxH) mm	Range of Shafts (Ød) mm	Magnetic Force kgf	Birim Fiyatı USD
990-75	75x86x75	5-40	75	364.00
990-100	100x70x95	5-65	100	595.00
990-150	150x75x100	5-70	125	



CODE	Size (LxWxH) mm	Range of Shafts (Ød) mm	Magnetic Force kgf	Birim Fiyatı USD
991-70A	70x60x73	6-44	56	162.00



CODE	Size (LxWxH) mm	Range of Shafts (Ød) mm	Magnetic Force kgf	Birim Fiyatı USD
991-80	80x70x95	6-67	64	278.00
991-100	100x70x95	6-67	80	297.00
991-120	120x70x95	6-67	96	

## ÇELİK MASTAR BLOK SETLERİ

### Steel Gauge Block Sets



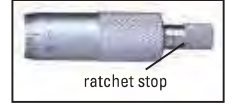
- Alaşımli çelikten imal edilmiştir.
- ISO3650 şartlarına uygundur.
- Kontrol sertifikası ile birlikte verilir.

- Made of alloy steel
- Meet ISO3650
- Supplied with inspection certificate

CODE			SETİN İÇİNDEKİ PARÇALAR Blocks included in set			HERBİR SETTEKİ BLOK ADEDİ, Block per set	Kalite 1 Grade 1	Kalite 0 Grade 0	Kalite 00 Grade 00
Kalite 1 Grade 1	Kalite 0 Grade 0	Kalite 00 Grade 00	EBAT Size mm	ADIM Step mm	ADET Quantity mm		Birim Fiyatı USD	Birim Fiyatı USD	Birim Fiyatı USD
998-47	999-47	999-47A	1.005		1	47	914.00	1540.00	
			1.01-1.09	0.01	9				
			1.1-1.9	0.1	9				
			1-24	1.0	24				
			25-100	25	4				
998-87	999-87	999-87A	1.001-1.009	0.001	9	87	1250.00	2110.00	
			1.01-1.49	0.01	49				
			0.5-9.5	0.5	19				
			10-100	10	10				
998-103	999-103	999-103A	1.005		1	103	1522.00	2665.00	
			1.01-1.49	0.01	49				
			0.5-24.5	0.5	49				
			25-100	25	4				
998-112	999-112	999-112A	1.0005		1	112	1932.00	2980.00	
			1.001-1.009	0.001	9				
			1.01-1.49	0.01	49				
			0.5-24.5	0.5	49				
			25-100	25	4				
998-122	999-122	999-122A	1.0005		1	122	2154.00	3120.00	
			1.001-1.009	0.001	9				
			1.01-1.49	0.01	49				
			1.6-1.9	0.1	4				
			0.5-24.5	0.5	49				
			30-100	10	8				
			25-75	50	2				

## ELEKTRONİK DIŞ MİKROMETRELER

### Electronic Outside Micrometers



#### Özellikler:

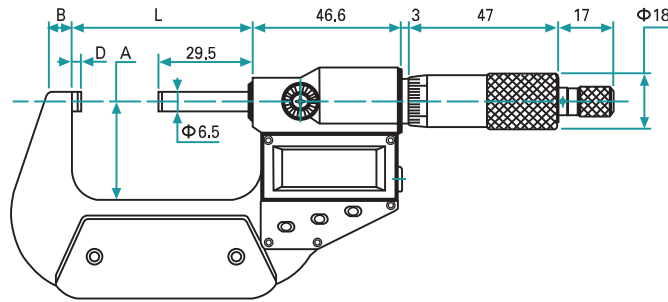
- Elmas ölçüm yüzeyleri.
- Boyalı gövde.
- Kriteri: DIN863/1,DIN40050/IEC529.

#### Specifications:

- Carbide measuring faces.
- Painted frame.
- Criterion: DIN863/1,DIN40050/IEC529.

MODEL A		IP54	Ratchet stop		
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD	
450 - 25	0 - 25	0.001	±2µm	226.92	
450 - 50	25 - 50	0.001	±2µm	245.38	
450 - 75	50 - 75	0.001	±3µm	263.85	
450 - 100	75 - 100	0.001	±3µm	282.31	
450 - 125	100 - 125	0.001	±3µm	306.92	
450 - 150	125 - 150	0.001	±3µm	331.54	
450 - 175	150 - 175	0.001	±4µm	362.31	
450 - 200	175 - 200	0.001	±4µm	393.08	
450 - 225	200 - 225	0.001	±4µm	430.00	
450 - 250	225 - 250	0.001	±4µm	466.92	
450 - 275	250 - 275	0.001	±5µm	510.00	
450 - 300	275 - 300	0.001	±5µm	553.08	

MODEL B		IP54	Ratchet stop		
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD	
451 - 25	0 - 25	0.001	±2µm	165.38	
451 - 50	25 - 50	0.001	±2µm	183.85	
451 - 75	50 - 75	0.001	±3µm	202.31	
451 - 100	75 - 100	0.001	±3µm	220.77	
451 - 125	100 - 125	0.001	±3µm	245.38	
451 - 150	125 - 150	0.001	±3µm	270.00	
451 - 175	150 - 175	0.001	±4µm	300.77	
451 - 200	175 - 200	0.001	±4µm	331.54	
451 - 225	200 - 225	0.001	±4µm	368.46	
451 - 250	225 - 250	0.001	±4µm	405.38	
451 - 275	250 - 275	0.001	±5µm	448.46	
451 - 300	275 - 300	0.001	±5µm	491.54	



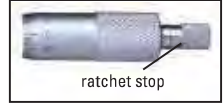
Dimensions					
RANGE mm	Inch	A mm	L mm	B mm	D mm
0-25	0-1"	24.0	32.5	6	3.0
25-50	1-2"	32.0	57.5	8	3.0
50-75	2-3"	44.5	82.5	8	3.0
75-100	3-4"	57.0	107.5	8	3.0
100-125	4-5"	70.0	133.0	10	3.0
125-150	5-6"	82.0	158.5	10	3.0
150-175	6-7"	94.5	184.0	12	5.5
175-200	7-8"	107.0	209.5	12	5.5
200-225	8-9"	129.5	234.0	23	5.5
225-250	9-10"	142.5	259.5	23	5.5
250-275	10-11"	155.0	285.0	23	5.5
275-300	11-12"	167.5	310.5	23	5.5

	Model A	Model B
Güç ON/OFF Power ON/OFF	☆	—
RS232 çıkış RS232 output	☆	☆
Mutlak değer ve Inch çevirme Abs. and inc. conversion	☆	☆
Metrik/Inch çevirme Metric/inch conversion	☆	—
Veri çıkışı Data output	☆	—
Menşei veri takımı Origin data set	☆	☆
Pil Battery	SR44	SR44
Otomatik kapatma Auto power off	☆	☆
Güç sarfıyatı Power consumption	<35µA	<35µA
Bağlantı kablosu Connecting cable	P1102	—



# ELEKTRONİK DIŞ MİKROMETRELER

## Electronic Outside Micrometers


**Özellikler:**

- Elmas ölçüm yüzeyleri.
- Boyalı gövde.
- Kriteri: DIN863/1,DIN40050/IEC529.

**Specifications:**

- Carbide measuring faces.
- Painted frame.
- Criterion: DIN863/1,DIN40050/IEC529.

MODEL A IP65		Ratchet stop		
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
452 - 25	0 - 25	0.001	±1µm	567.69
452 - 50	25 - 50	0.001	±1µm	613.85
452 - 75	50 - 75	0.001	±1µm	660.00
452 - 100	75 - 100	0.001	±2µm	530.00
452 - 125	100 - 125	0.001	±2µm	576.15
452 - 150	125 - 150	0.001	±2µm	622.31
452 - 175	150 - 175	0.001	±3µm	589.23
452 - 200	175 - 200	0.001	±3µm	639.23
452 - 225	200 - 225	0.001	±4µm	645.38
452 - 250	225 - 250	0.001	±4µm	700.77
452 - 275	250 - 275	0.001	±5µm	765.38
452 - 300	275 - 300	0.001	±5µm	830.00

MODEL B IP65		Ratchet stop		
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
453 - 25	0 - 25	0.001	±1µm	165.38
453 - 50	25 - 50	0.001	±1µm	183.85
453 - 75	50 - 75	0.001	±1µm	202.31
453 - 100	75 - 100	0.001	±2µm	220.77
453 - 125	100 - 125	0.001	±2µm	245.38
453 - 150	125 - 150	0.001	±2µm	270.00
453 - 175	150 - 175	0.001	±3µm	300.77
453 - 200	175 - 200	0.001	±3µm	331.54
453 - 225	200 - 225	0.001	±4µm	368.46
453 - 250	225 - 250	0.001	±4µm	405.38
453 - 275	250 - 275	0.001	±5µm	448.46
453 - 300	275 - 300	0.001	±5µm	491.54

## MİKROMETRE SETLERİ

### Micrometers Sets



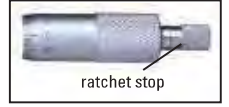
	Model A	Model B
Güç ON/OFF Power ON/OFF	☆	—
RS232 çıkış RS232 output	☆	☆
Mutlak değer ve Inch çevirme Abs. and inch conversion	☆	☆
Metrik/Inch çevirme Metric/inch conversion	☆	—
Veri çıkışı Data output	☆	—
Menşei veri takımı Origin data set	☆	☆
Pil Battery	SR44	SR44
Otomatik kapatma Auto power off	☆	☆
Güç sarfiyatı Power consumption	<35µA	<35µA
Bağlantı kablosu Connecting cable	P1102	—

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
<b>MODEL A IP54 Ratchet stop</b>			
454 - 75	0-75	0.001	736.15
454 - 100	0-100	0.001	1018.46
454 - 150	0-150	0.001	1656.92
<b>MODEL B IP54</b>			
455 - 75	0-75	0.001	551.54
455 - 100	0-100	0.001	772.31
455 - 150	0-150	0.001	1287.69

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
<b>MODEL A IP65 Ratchet stop</b>			
456 - 75	0-75	0.001	1841.54
456 - 100	0-100	0.001	2371.54
456 - 150	0-150	0.001	3570.00
<b>MODEL B IP65</b>			
457 - 75	0-75	0.001	551.54
457 - 100	0-100	0.001	772.31
457 - 150	0-150	0.001	1287.69

## ELEKTRONİK DIŞ MİKROMETRELER

### Electronic Outside Micrometers



#### Single Function Key

#### Ratchet friction thimble

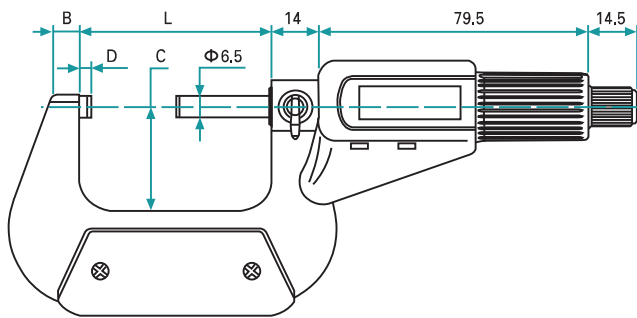
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
464 - 25	0 - 25	0.001	±2μm	121.54
464 - 50	25 - 50	0.001	±2μm	145.38
464 - 75	50 - 75	0.001	±3μm	160.00
464 - 100	75 - 100	0.001	±3μm	176.15
464 - 125	100 - 125	0.001	±3μm	193.85
464 - 150	125 - 150	0.001	±3μm	213.85
464 - 175	150 - 175	0.001	±4μm	234.62
464 - 200	175 - 200	0.001	±4μm	258.46

#### Özellikler:

- Pili değiştirdikten sonra görülen veri menşenin birim değeridir.
- Boyalı gövde.
- Elmas ölçüm yüzeyleri
- Kriteri: 863/1, DIN40050/IEC529.

#### Specifications:

- Display data is origin data of absolute measurement after changing battery.
- Painted frame.
- Carbide measuring faces.
- Criterion: DIN863/1, DIN40050/IEC529.



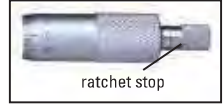
#### Dimensions

RANGE mm	Inch	C mm	L mm	B mm	D mm
0-25	0-1"	24	32	6	3.0
25-50	1-2"	32	57	8	3.0
50-75	2-3"	45	82	8	3.0
75-100	3-4"	57	107	10	3.0
100-125	4-5"	70	133	10	3.0
125-150	5-6"	82	158	10	3.0
150-175	6-7"	95	183	12	5.5
175-200	7-8"	107	209	12	5.5

	Tek Fonksiyon Tuşu Single function key	Çift Fonksiyon Tuşu Double function key
Güç ON/OFF Power ON/OFF	☆	☆
Mutlak değer ve Inch çevirme Abs. and inc. conversion	—	☆
Metrik/Inch çevirme Metric/Inch conversion	—	☆
Veri çıkışı Data output	—	—
Menşei veri takımı Origin data set	☆	☆
Pil Battery	SR44	SR44
Otomatik kapatma Auto power off	☆	☆
Güç sarfiyatı Power consumption	<35μA	<35μA

## ELEKTRONİK DIŐ MİKROMETRELER

### Electronic Outside Micrometers



#### Özellikler:

- Pili deęiŐtirdikten sonra görülen veri menŐeinin birim deęeridir.
- Boyalı gövde. Elmas ölçüm yüzeyleri.
- Kriteri: DIN863/1,DIN40050/IEC529.

#### Specifications:

- Display data is origin data of absolute measurement after changing battery.
- Painted frame. Carbide measuring faces.
- Criterion: DIN863/1,DIN40050/IEC529.

Double Function Key		Ratchet friction thimble		
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
465 - 25	0 - 25	0.001	±2µm	136.92
465 - 50	25 - 50	0.001	±2µm	162.31
465 - 75	50 - 75	0.001	±3µm	177.69
465 - 100	75 - 100	0.001	±3µm	194.62
465 - 125	100 - 125	0.001	±3µm	213.85
465 - 150	125 - 150	0.001	±3µm	234.62
465 - 175	150 - 175	0.001	±4µm	256.15
465 - 200	175 - 200	0.001	±4µm	280.77

	Tek Fonksiyon TuŐu Single function key	Çift Fonksiyon TuŐu Double function key
Güç ON/OFF Power ON/OFF	☆	☆
Mutlak deęer ve İnch çevirme Abs. and inc. conversion	—	☆
Metrik/İnch çevirme Metric/inch conversion	—	☆
Veri çıkıŐı Data output	—	—
MenŐei veri takımı Origin data set	☆	☆
Pil Battery	SR44	SR44
Otomatik kapatma Auto power off	☆	☆
Güç sarfiyatı Power consumption	<35µA	<35µA

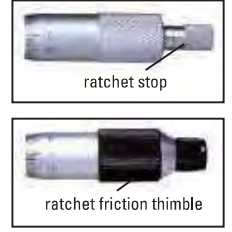
## MİKROMETRE SETLERİ / Micrometers Sets



CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
<b>Single Function Key</b>			
466 - 75	0-75	0.001	426.92
466 - 100	0-100	0.001	603.08
466 - 150	0-150	0.001	1010.77
<b>Double Function Key</b>			
467 - 75	0-75	0.001	476.92
467 - 100	0-100	0.001	671.54
467 - 150	0-150	0.001	1120.00

## ELEKTRONİK DIŐ MİKROMETRELER

### Electronic Outside Micrometers



#### Özellikler:

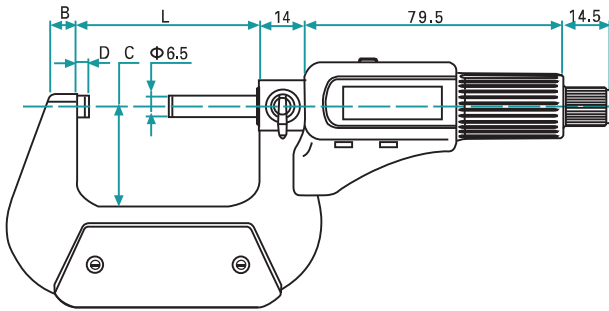
- Pili deęiŐtirdikten sonra görölen veri menŐenin birim deęeridir.
- Elmas ölçüm yüzeyleri.
- Kriteri: DIN863/1,DIN40050/IEC529.

#### Specifications:

- Display data is origin data of absolute measurement after changing battery.
- Carbide measuring faces.
- Criterion: DIN863/1,DIN40050/IEC529.

Chrome plated frame		IP54	Ratchet friction thimble		
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD	
470 - 25	0 - 25	0.001	±2µm	<b>183.08</b>	
470 - 50	25 - 50	0.001	±2µm	<b>210.77</b>	
470 - 75	50 - 75	0.001	±3µm	<b>238.46</b>	
470 - 100	75 - 100	0.001	±3µm	<b>275.38</b>	
470 - 125	100 - 125	0.001	±3µm	<b>303.08</b>	
470 - 150	125 - 150	0.001	±3µm	<b>330.77</b>	
470 - 175	150 - 175	0.001	±4µm	<b>358.46</b>	
470 - 200	175 - 200	0.001	±4µm	<b>386.15</b>	

Painted frame		IP54	Ratchet friction thimble		
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD	
471 - 25	0 - 25	0.001	±2µm	<b>160.77</b>	
471 - 50	25 - 50	0.001	±2µm	<b>185.38</b>	
471 - 75	50 - 75	0.001	±3µm	<b>210.00</b>	
471 - 100	75 - 100	0.001	±3µm	<b>242.31</b>	
471 - 125	100 - 125	0.001	±3µm	<b>266.92</b>	
471 - 150	125 - 150	0.001	±3µm	<b>290.77</b>	
471 - 175	150 - 175	0.001	±4µm	<b>315.38</b>	
471 - 200	175 - 200	0.001	±4µm	<b>340.00</b>	

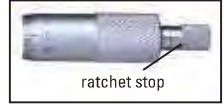


Dimensions					
RANGE mm	Inch	C mm	L mm	B mm	D mm
0-25	0-1"	24	32	6	3.0
25-50	1-2"	32	57	8	3.0
50-75	2-3"	45	82	8	3.0
75-100	3-4"	57	107	10	3.0
100-125	4-5"	70	133	10	3.0
125-150	5-6"	82	158	10	3.0
150-175	6-7"	95	183	12	5.5
175-200	7-8"	107	209	12	5.5

Güç ON/OFF Power ON/OFF	☆
Mutlak deęer ve İnch çevirme Abs. and inc. conversion	☆
Metrik/İnch çevirme Metric/inch conversion	☆
Veri çıkışı Data output	☆
MenŐei veri takımı Origin data set	☆
Pil Battery	SR44
Otomatik kapatma Auto power off	☆
Güç sarfiyatı Power consumption	<35µA
RS232 çıkış portu RS232 output port	☆
Baęlantı kablosu(isteęe baęlı) Connecting cable(Optional)	P1102

# ELEKTRONİK DIŞ MİKROMETRELER (MİKROMETRE SETLERİ)

## Electronic Outside Micrometers (Micrometers Sets)



### Chrome plated frame / Ratchet friction thimble

CODE	RANGE mm	Birim Fiyatı USD
472 - 75	0 - 75	632.31
472 - 100	0 - 100	907.69
472 - 150	0 - 150	1465.38

### Painted frame / Ratchet friction thimble

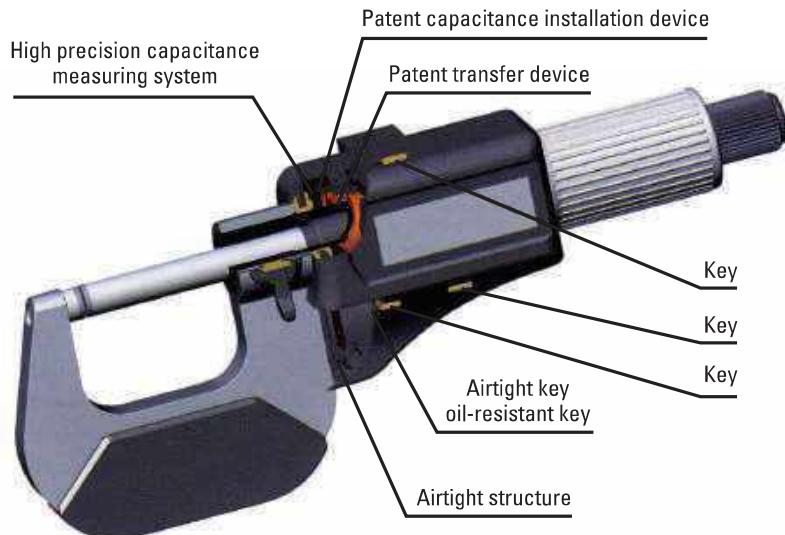
CODE	RANGE mm	Birim Fiyatı USD
473 - 75	0 - 75	556.15
473 - 100	0 - 100	798.46
473 - 150	0 - 150	1356.15

### Özellikler:

- Seçkin yüksek hassasiyet kapasiteli ölçüm sistemi.
- Hava sızdırmaz yapı dizaynı, hatta kötü çalışma çevresi altında bile mikrometrenin kesin ve güvenilir ölçüm sonuçları vermesine olanak sağlar.

### Specifications:

- Adopt high precision capacitance measuring system.
- Airtight structure design, ensure micrometer exact and credible measuring result, even under dreadful working surroundings.



### SPECIFICATION:

Display:

LCD display.

Function:

Power on/off, Absolute and incremental measurement conversion, Metric-inch conversion, SPC data output, Origin data set for absolute measurement, Power off automatically.

Protecton level:

IP54

Battery:

One SR44 battery.

Power Consumption:

<35µA.

Alert:

Low voltage, wrong calculation.

Working temperature: 0°C to 40°C.

Store temperature: -20°C to 60°C.

# ELEKTRONİK ÇİFT GÖSTERGELİ DİJİTAL MİKROMETRELER

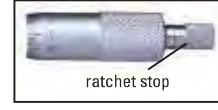
## Electronic Double Display Digital Micrometers



474-30



475-30



ratchet stop



ratchet friction thimble

### Özellikler:

- Çift gösterge.
- Sağ ve sol el kullanılarak, her türlü ölçüm koşullarında kolay okunacak şekilde ölçüm yapabilmek için, bir tuşla LCD yönü değiştirilebilir.
- Pili değiştirdikten sonra görülen veri menşenin birim değeridir.
- Elmas ölçüm yüzeyleri.
- Mikrometre kafasının uzayabilme mesafesi: 30mm  
Kriteri: DIN863/1,DIN40050/IEC529.

### Specifications:

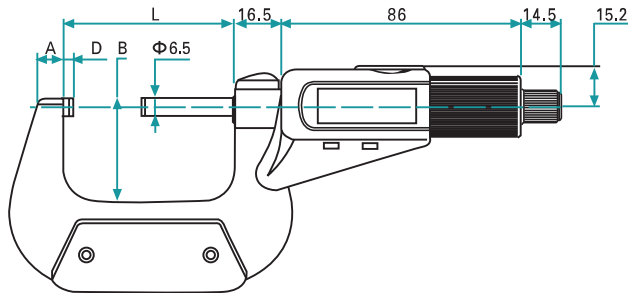
- Double displys.
- LCD direction can be changed by key for easy reading in all kinds of measuring conditions and left or right hand using.
- Display data is origin data of absolute measurement after changing battery.
- Carbide measuring faces.
- Travel of micrometer head: 30mm.
- Criterion: DIN863/1,DIN40050/IEC529.

### MODEL A IP54 Chrome-plated frame/Ratchet friction thimble

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
474 - 30	0 - 30	0.001	±2µm	329.23
474 - 55	25 - 55	0.001	±2µm	405.38
474 - 80	50 - 80	0.001	±3µm	464.62
474 - 105	75 - 105	0.001	±3µm	523.85
474 - 130	100 - 130	0.001	±3µm	583.08
474 - 155	125 - 155	0.001	±3µm	642.31
474 - 180	150 - 180	0.001	±4µm	701.54
474 - 205	175 - 205	0.001	±4µm	760.77

### MODEL B IP54 Chrome-plated frame/Ratchet friction thimble

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
475 - 30	0 - 30	0.001	±2µm	329.23
475 - 55	25 - 55	0.001	±2µm	405.38
475 - 80	50 - 80	0.001	±3µm	464.62
475 - 105	75 - 105	0.001	±3µm	523.85
475 - 130	100 - 130	0.001	±3µm	583.08
475 - 155	125 - 155	0.001	±3µm	642.31
475 - 180	150 - 180	0.001	±4µm	701.54
475 - 205	175 - 205	0.001	±4µm	760.77



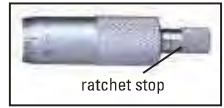
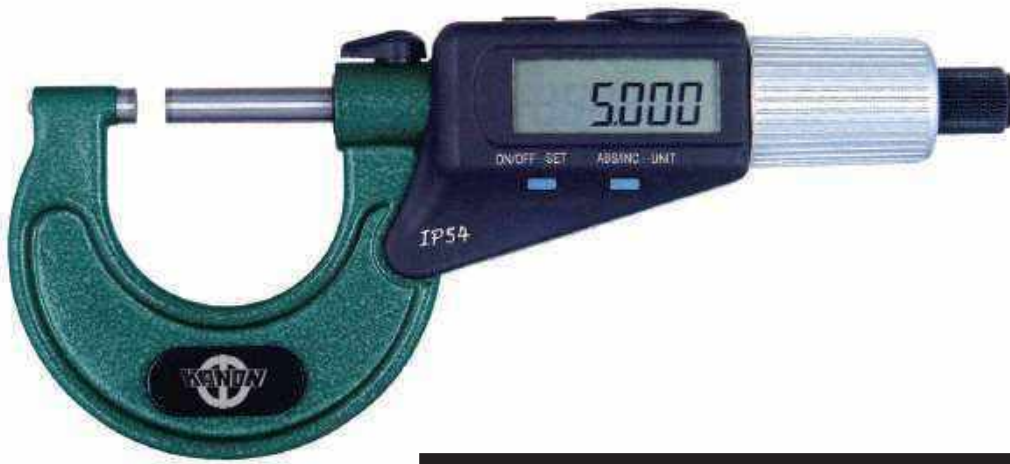
### Dimensions

RANGE mm	Inch	A mm	B mm	L mm	D mm
0-30	0-1.2"	7	28	37	3.0
25-55	1-2.2"	10	35	62	3.0
50-80	2-3.2"	12	48	87	3.0
75-105	3-4.2"	12	60	112	3.0
100-130	4-5.2"	12	73	137	3.0
125-155	5-6.2"	12	85	163	3.0
150-180	6-7.2"	12	98	188	5.5
175-205	7-8.2"	12	110	214	5.5

Güç ON/OFF Power ON/OFF	☆
Mutlak değer ve İnch çevirme Abs. and inch conversion	☆
Metrik/İnch çevirme Metric/inch conversion	☆
Menşei veri takımı Origin data set	☆
Yön değiştirme tuşu LCD direction change key	☆
Pil Battery	CR2032
Otomatik kapatma Auto power off	☆
Güç sarfiyatı Power consumption	<50µA
RS232 çıkış portu RS232 output port	☆
Bağlantı kablosu (isteğe bağlı) Connecting cable (Optional)	P1101

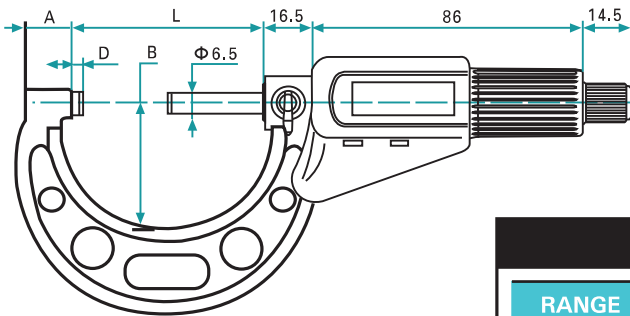
# ELEKTRONİK ÇİFT GÖSTERGELİ DİJİTAL MİKROMETRELER

## Electronic Double Display Digital Micrometers



Fine Cast Frame **IP54** Ratchet friction thimble

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
476 - 30	0 - 30	0.001	±2µm	<b>329.23</b>
476 - 50	20 - 50	0.001	±2µm	<b>405.38</b>
476 - 75	45 - 75	0.001	±3µm	<b>464.62</b>
476 - 100	70 - 100	0.001	±3µm	<b>523.85</b>
476 - 125	95 - 125	0.001	±3µm	<b>583.08</b>
476 - 150	120 - 150	0.001	±3µm	<b>642.31</b>
476 - 175	145 - 175	0.001	±4µm	<b>701.54</b>
476 - 200	170 - 200	0.001	±4µm	<b>760.77</b>
476 - 225	195 - 225	0.001	±4µm	<b>820.00</b>
476 - 250	220 - 250	0.001	±4µm	<b>879.23</b>
476 - 275	245 - 275	0.001	±5µm	<b>938.46</b>
476 - 300	270 - 300	0.001	±5µm	<b>997.68</b>



### Dimensions

RANGE mm	Inch	A mm	B mm	L mm	D mm
0-30	0-1.2"	9	35	37	3.0
20-50	0.8-2"	14	38	57	3.0
45-75	1.8-3"	15	49	82	3.0
75-100	2.8-4"	15	60	107	3.0
95-125	3.8-5"	16	73	133	3.0
120-150	4.8-6"	16	85	158	3.0
145-175	5.8-7"	19	104	183	5.5
170-200	6.8-8"	19	117	209	5.5
195-225	7.8-9"	19	130	234	5.5
220-250	8.8-10"	19	142	260	5.5
245-275	9.8-11"	19	155	285	5.5
270-300	10.8-12"	19	168	310	5.5



**Özellikler:**

- Elmas ölçüm yüzeyleri.
- Mikrometre ölçme ucunun uzanma mesafesi:50mm
- Sabit (dönmez) spindil
- Kriteri: DIN863/1,DIN40050/IEC529.

**Specifications:**

- Carbide measuring faces.
- Travel of micrometer head: 50mm.
- Non-Rotating spindle.
- Criterion: DIN863/1,DIN40050/IEC529.

IP54		Fine Cast Frame / Ratchet friction thimble		
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
477 - 50	0 - 50	0.001	±3µm	591.54
477 - 100	50 - 100	0.001	±3µm	790.77
477 - 150	100 - 150	0.001	±4µm	983.85
477 - 200	150 - 200	0.001	±4µm	1168.46

Güç ON/OFF Power ON/OFF	☆
Mutlak değer ve Inch çevirme Abs. and inc. conversion	☆
Metrik/Inch çevirme Metric/Inch conversion	☆
Veri çıkışı Data output	☆
Menşei veri takımı Origin data set	☆
Pil Battery	CR2032
Otomatik kapatma Auto power off	☆
Güç sarfiyatı Power consumption	<50µA
RS232 çıkış portu RS232 output port	☆
Bağlantı kablosu (isteğe bağlı) Connecting cable(Optional)	P1101

MİKROMETRE SETLERİ / Micrometers Sets



IP54		Ratchet friction thimble		
CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD	
<b>MODEL A Chrome plated frame</b>				
478 - 80	0-80	0.001	1199.23	
478 - 105	0-105	0.001	1723.08	
478 - 155	0-155	0.001	2948.46	
<b>MODEL B Chrome plated frame</b>				
479 - 80	0-80	0.001	1199.23	
479 - 105	0-105	0.001	1723.08	
479 - 155	0-155	0.001	2948.46	
<b>Fine cast frame</b>				
480 - 75	0-75	0.001	1199.23	
480 - 100	0-100	0.001	1723.08	
480 - 150	0-150	0.001	2948.46	
480 - 300	145-300	0.001	5097.69	



## ELEKTRONİK DIŞ MİKROMETRELER

### Electronic Outside Micrometers


**Özellikler:**

- Elmas ölçüm yüzeyleri.
- Boyalı gövde.

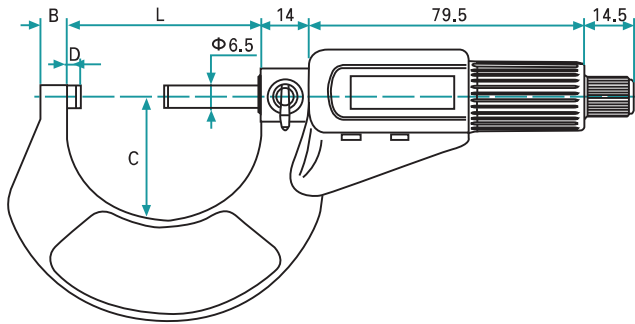
**Specifications:**

- Carbide measuring faces.
- Painted frame.

**Fine Cast Frame / Ratchet friction thimble**

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
481 - 25	0 - 25	0.001	±2µm	<b>104.62</b>
481 - 50	25 - 50	0.001	±2µm	<b>127.69</b>
481 - 75	50 - 75	0.001	±3µm	<b>143.08</b>
481 - 100	75 - 100	0.001	±3µm	<b>158.46</b>

Güç ON/OFF Power ON/OFF	☆
Mutlak değer ve Inch çevirme Abs. and inc. conversion	☆
Metrik/Inch çevirme Metric/inch conversion	☆
Veri çıkışı Data output	—
Menşei veri takımı Origin data set	☆
Pil Battery	SR44
Otomatik kapatma Auto power off	☆
Güç sarfiyatı Power consumption	<35µA


**Dimensions**

RANGE mm	Inch	C mm	L mm	B mm	D mm
0-25	0-1"	27,5	32	6	3.0
25-50	1-2"	37	57	8	3.0
50-75	2-3"	50	82	8	3.0
75-100	3-4"	61	107	10	3.0

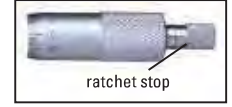
## MİKROMETRE SETLERİ / Micrometers Sets



CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
482 - 75	0 - 75	0.001	<b>375.38</b>
482 - 100	0 - 100	0.001	<b>533.85</b>

## ANTİMAGNETİK MİKROMETRELER

### Antimagnetic Micrometers



#### Özellikler:

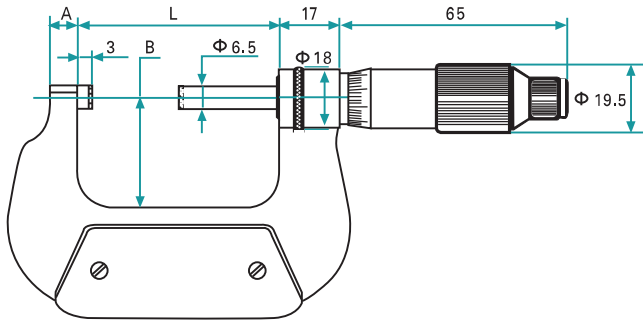
- Magnetik alanlarda kullanabilmek üzere antimagnetik malzeme.
- Seramik ölçüm yüzeyleri.

#### Specifications:

- Antimagnetic material for using in magnetic fields.
- Ceramic measuring faces.

#### Ratchet friction thimble

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
483 - 25	0 - 25	0.01	±4µm	<b>923.08</b>
483 - 50	25 - 50	0.01	±4µm	<b>1015.38</b>
483 - 75	50 - 75	0.01	±5µm	<b>1107.69</b>
483 - 100	75 - 100	0.01	±5µm	<b>1200.00</b>



#### Dimensions

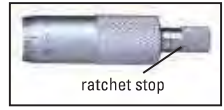
RANGE mm	Inch	B mm	A mm	L mm
0-25	0-1"	24	6	32
25-50	1-2"	32	8	57
50-75	2-3"	45	8	82
75-100	3-4"	57	8	107

## DIŞ MİKROMETRELER Outside Micrometers



**Özellikler:**  
• Elmas ölçüm yüzeyleri.

**Specifications:**  
• Carbide measuring faces.



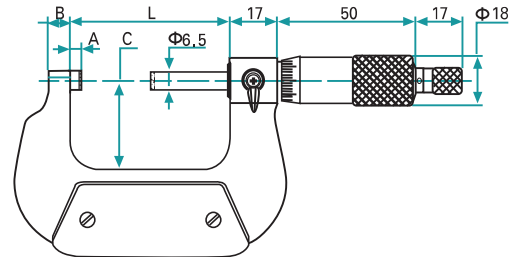
Painted frame

Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
484 - 25	0-25	0.01	±4µm	<b>38.77</b>
484 - 50	25-50	0.01	±4µm	<b>42.46</b>
484 - 75	50-75	0.01	±5µm	<b>47.08</b>
484 - 100	75-100	0.01	±5µm	<b>51.69</b>
484 - 125	100-125	0.01	±6µm	<b>60.00</b>
484 - 150	125-150	0.01	±6µm	<b>70.15</b>
484 - 175	150-175	0.01	±7µm	<b>82.15</b>
484 - 200	175-200	0.01	±7µm	<b>92.31</b>

### Dimensions

RANGE mm	Inch	A mm	B mm	C mm	L mm
0-25	0-1"	3.0	6	24	32
25-50	1-2"	3.0	8	32	57
50-75	2-3"	3.0	8	45	82
75-100	3-4"	3.0	8	57	107
100-125	4-5"	3.0	8	70	133
125-150	5-6"	3.0	8	82	158
150-175	6-7"	3.0	8	95	183
175-200	7-8"	3.0	8	107	209



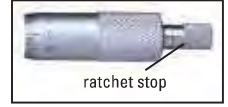
## MİKROMETRE SETLERİ / Micrometers Sets



Ratchet stop

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
485 - 75	0 - 75	0.01	<b>128.31</b>
485 - 100	0 - 100	0.01	<b>180.00</b>
485 - 150	0 - 150	0.01	<b>310.15</b>
485 - 200	0 - 200	0.01	<b>484.62</b>

## DIŞ MİKROMETRELER Outside Micrometers



**Özellikler:**  
• Elmas ölçüm yüzeyleri.

**Specifications:**  
• Carbide measuring faces.

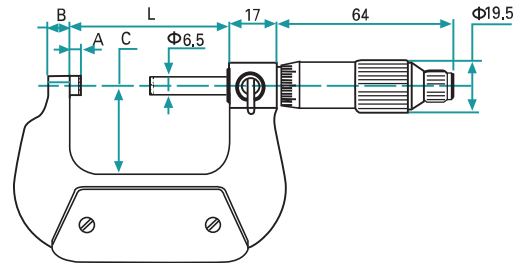
Chrome plated frame

Ratchet friction thimble

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
486 - 25	0-25	0.01	±4µm	<b>48.92</b>
486 - 50	25-50	0.01	±4µm	<b>53.54</b>
486 - 75	50-75	0.01	±5µm	<b>58.15</b>
486 - 100	75-100	0.01	±5µm	<b>63.69</b>
486 - 125	100-125	0.01	±6µm	<b>78.46</b>
486 - 150	125-150	0.01	±6µm	<b>91.38</b>
486 - 175	150-175	0.01	±7µm	<b>127.38</b>
486 - 200	175-200	0.01	±7µm	<b>146.77</b>

### Dimensions

RANGE mm	Inch	A mm	B mm	C mm	L mm
0-25	0-1"	3.0	6	24	32
25-50	1-2"	3.0	8	32	57
50-75	2-3"	3.0	8	45	82
75-100	3-4"	3.0	8	57	107
100-125	4-5"	3.0	8	70	133
125-150	5-6"	3.0	8	82	158
150-175	6-7"	3.0	8	95	183
175-200	7-8"	3.0	8	107	209



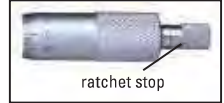
## MİKROMETRE SETLERİ / Micrometers Sets



Ratchet friction thimble

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
487 - 75	0 - 75	0.01	<b>160.62</b>
487 - 100	0 - 100	0.01	<b>224.31</b>
487 - 150	0 - 150	0.01	
487 - 200	0 - 200	0.01	

## DIŞ MİKROMETRELER Outside Micrometers

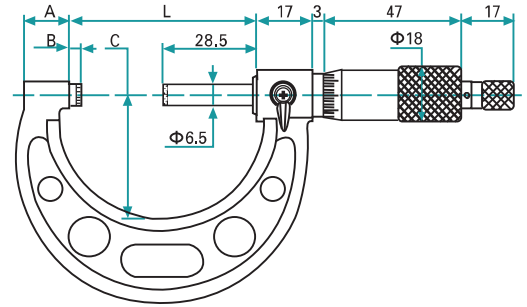


**Özellikler:**  
• Elmas ölçüm yüzeyleri.

**Specifications:**  
• Carbide measuring faces.

Painted and fine cast frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
488 - 25	0-25	0.01	±4µm	38.77
488 - 50	25-50	0.01	±4µm	42.46
488 - 75	50-75	0.01	±5µm	47.08
488 - 100	75-100	0.01	±5µm	51.69
488 - 125	100-125	0.01	±6µm	60.00
488 - 150	125-150	0.01	±6µm	70.15
488 - 175	150-175	0.01	±7µm	82.15
488 - 200	175-200	0.01	±7µm	92.31
488 - 225	200-225	0.01	±8µm	101.54
488 - 250	225-250	0.01	±8µm	111.69
488 - 275	250-275	0.01	±9µm	120.92
488 - 300	275-300	0.01	±9µm	131.08

Dimensions					
RANGE mm	Inch	A mm	B mm	C mm	L mm
0-25	0-1"	9	3.0	28	32
25-50	1-2"	14	3.0	38	57
50-75	2-3"	15	3.0	49	82
75-100	3-4"	15	3.0	60	107
100-125	4-5"	16.5	3.0	73	133
125-150	5-6"	16.5	3.0	85	158
150-175	6-7"	19.4	3.0	104	183
175-200	7-8"	19.4	3.0	117	209
200-225	8-9"	19.4	3.0	130	234
225-250	9-10"	19.4	3.0	142	260
250-275	10-11"	19.4	3.0	155	285
275-300	11-12"	19.4	3.0	168	310



## MİKROMETRE SETLERİ / Micrometers Sets



Ratchet stop			
CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
489 - 75	0 - 75	0.01	128.31
489 - 100	0 - 100	0.01	180.00
489 - 150	0 - 150	0.01	310.15
489 - 300S	150 - 300	0.01	639.69
489 - 300	0 - 300	0.01	949.85

## DIŞ MİKROMETRELER Outside Micrometers



**Özellikler:**  
• Elmas ölçüm yüzeyleri.

**Specifications:**  
• Carbide measuring faces.

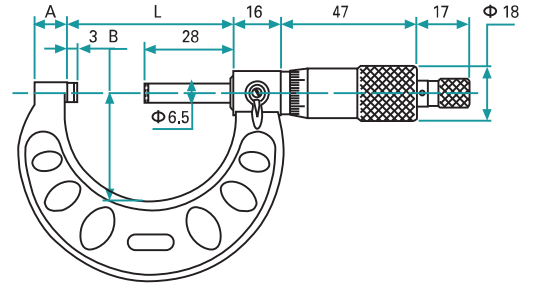
Painted and fine cast frame

Ratchet stop

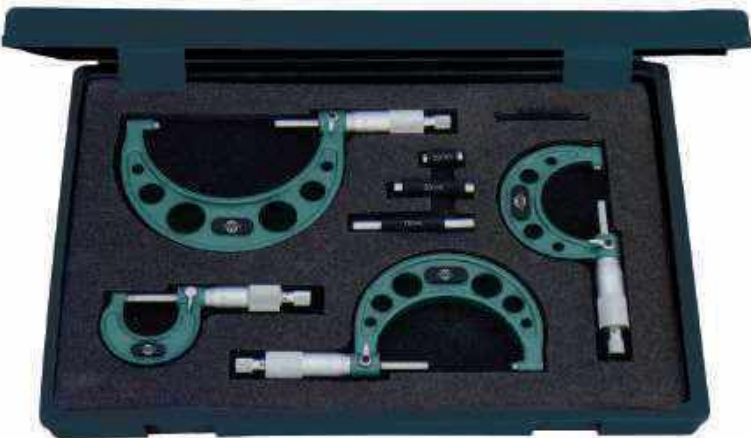
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
490 - 25	0-25	0.01	±4µm	<b>38.77</b>
490 - 50	25-50	0.01	±4µm	<b>42.46</b>
490 - 75	50-75	0.01	±5µm	<b>47.08</b>
490 - 100	75-100	0.01	±5µm	<b>51.69</b>
490 - 125	100-125	0.01	±6µm	<b>60.00</b>
490 - 150	125-150	0.01	±6µm	<b>70.15</b>

### Dimensions

RANGE mm	Inch	A mm	B mm	L mm
0-25	0-1"	10	29	31
25-50	1-2"	10	37	56
50-75	2-3"	10	50	81
75-100	3-4"	10	63	106
100-125	4-5"	12	75	131
125-150	5-6"	11	88	156



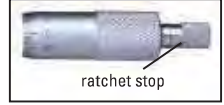
## MİKROMETRE SETLERİ / Micrometers Sets



Ratchet stop

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
491 - 75	0 - 75	0.01	<b>128.31</b>
491 - 100	0 - 100	0.01	<b>180.00</b>
491 - 150	0 - 150	0.01	<b>310.15</b>

## DIŞ MİKROMETRELER Outside Micrometers


**Özellikler:**

- Yüksek hassasiyette ölçüm için paralaks verniyeri yoktur.
- Elmas ölçüm yüzeyleri.

**Specifications:**

- No- parallax vernier scale for high precision measuring.
- Carbide measuring faces.

**Chrome-plated frame**
**Ratchet stop**

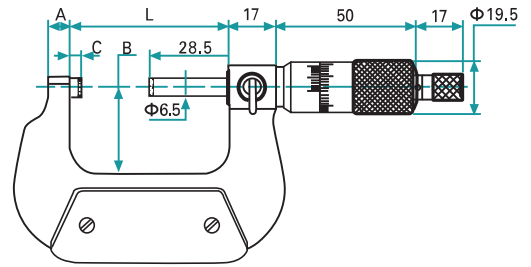
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
492 - 25	0 - 25	0.001	±4µm	<b>115.38</b>
492 - 50	25 - 50	0.001	±4µm	<b>124.62</b>
492 - 75	50 - 75	0.001	±5µm	<b>133.85</b>
492 - 100	75 - 100	0.001	±5µm	<b>143.08</b>

**Painted frame**
**Ratchet stop**

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
493 - 25	0 - 25	0.001	±4µm	<b>107.69</b>
493 - 50	25 - 50	0.001	±4µm	<b>116.92</b>
493 - 75	50 - 75	0.001	±5µm	<b>126.15</b>
493 - 100	75 - 100	0.001	±5µm	<b>135.38</b>
493 - 125	100 - 125	0.001	±6µm	<b>156.15</b>
493 - 150	125 - 150	0.001	±6µm	<b>174.62</b>
493 - 175	150 - 175	0.001	±7µm	<b>183.85</b>
493 - 200	175 - 200	0.001	±7µm	<b>202.31</b>

**Dimensions**

RANGE mm	Inch	A mm	C mm	B mm	L mm
0-25	0-1"	6	3.0	24	32
25-50	1-2"	8	3.0	32	57
50-75	2-3"	8	3.0	45	82
75-100	3-4"	8	3.0	57	107
100-125	4-5"	8	3.0	70	133
125-150	5-6"	8	3.0	82	158
150-175	6-7"	8	5.5	95	183
175-200	7-8"	8	5.5	107	209

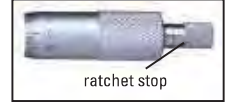


## MİKROMETRE SETLERİ / Micrometers Sets



CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
<b>Chrome-plated frame</b>			<b>Ratchet stop</b>
494 - 75	0-75	0.001	<b>373.85</b>
494 - 100	0-100	0.001	<b>516.92</b>
<b>Painted frame</b>			<b>Ratchet stop</b>
495 - 75	0-75	0.001	<b>351.54</b>
495 - 100	0-100	0.001	<b>487.69</b>
495 - 150	0-150	0.001	<b>817.69</b>
495 - 200	0-200	0.001	<b>1203.85</b>

## DIŞ MİKROMETRELER Outside Micrometers



### Özellikler:

- Sıvınlı diş hatvesi 1mm/0,05"
- Ölçüm doğrudan 100 taksimatlı yüzükten okunabilir.
- Elmas ölçüm yüzeyleri.

### Specifications:

- Spindle thread pitch: 1mm/0.05".
- The measurement can be read directly from the 100 step graduation thimble.
- Carbide measuring faces.

### Chrome plated frame

### Ratchet friction thimble

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
496 - 25	0 - 25	0.01	±4µm	91.54
496 - 50	25 - 50	0.01	±4µm	100.77
496 - 75	50 - 75	0.01	±5µm	110.00
496 - 100	75 - 100	0.01	±5µm	119.23

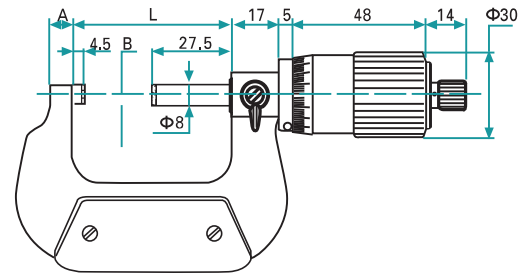
### Painted frame

### Ratchet friction thimble

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
497 - 25	0 - 25	0.01	±4µm	91.54
497 - 50	25 - 50	0.01	±4µm	100.77
497 - 75	50 - 75	0.01	±5µm	110.00
497 - 100	75 - 100	0.01	±5µm	119.23
497 - 125	100 - 125	0.01	±6µm	146.92
497 - 150	125 - 150	0.01	±6µm	165.38
497 - 175	150 - 175	0.01	±7µm	183.85
497 - 200	175 - 200	0.01	±7µm	202.31

### Dimensions

RANGE mm	Inch	A mm	B mm	L mm
0-25	0-1"	6	24	32
25-50	1-2"	8	32	57
50-75	2-3"	8	45	82
75-100	3-4"	8	57	107
100-125	4-5"	8	70	133
125-150	5-6"	8	82	158
150-175	6-7"	8	95	183
175-200	7-8"	8	107	209



## MİKROMETRE SETLERİ / Micrometers Sets

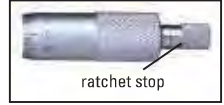


CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
<b>Chrome plated frame</b>		<b>Ratchet friction thimble</b>	
498 - 75	0-75	0.01	301.54
498 - 100	0-100	0.01	420.77
<b>Painted frame</b>		<b>Ratchet friction thimble</b>	
499 - 75	0-75	0.01	301.54
499 - 100	0-100	0.01	420.77
499 - 150	0-150	0.01	733.08
499 - 200	0-200	0.01	1118.46



## SAYAÇLI DIŞ MİKROMETRELER

### Digit Outside Micrometers With Counter



#### Özellikler:

- Hatasız ve çabuk ölçü almak için mekanik hane sayacı.
- Elmas ölçüm yüzeyleri.
- Sayaç göstergesi: 0.01mm(Metrik); 0.001"(Inch).

#### Specifications:

- Mechanical digit counter for quick and error-free reading.
- Carbide measuring faces.
- Counter readout: 0.01mm(Metric); 0.001"(Inch).

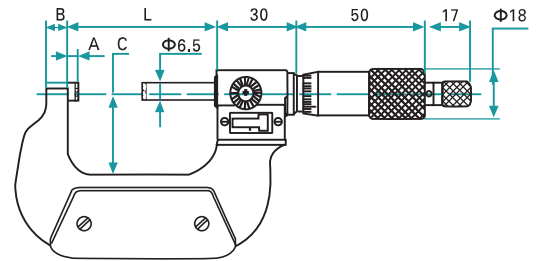
#### Painted frame

#### Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
501 - 25	0 - 25	0.01	±4µm	70.00
501 - 50	25 - 50	0.01	±4µm	78.46
501 - 75	50 - 75	0.01	±5µm	87.69
501 - 100	75 - 100	0.01	±5µm	96.15
501 - 125	100 - 125	0.01	±6µm	113.85
501 - 150	125 - 150	0.01	±6µm	131.54
501 - 175	150 - 175	0.01	±7µm	157.69
501 - 200	175 - 200	0.01	±7µm	176.92
501 - 225	200 - 225	0.01	±8µm	194.62
501 - 250	225 - 250	0.01	±8µm	213.85
501 - 275	250 - 275	0.01	±9µm	231.54
501 - 300	275 - 300	0.01	±9µm	253.08

#### Dimensions

RANGE mm	Inch	A mm	B mm	C mm	L mm
0 - 25	0-1"	3.5	6	26	32
25 - 50	1-2"	3.5	8	32	57
50 - 75	2-3"	3.5	8	44.5	82
75 - 100	3-4"	3.5	8	57	107
100 - 125	4-5"	3.5	17	71.8	132.4
125 - 150	5-6"	3.5	17	84	157.8
150 - 175	6-7"	3.5	20	98.5	185
175 - 200	7-8"	3.5	20	111	210.4
200 - 225	8-9"	5.5	20	124	236
225 - 250	9-10"	5.5	20	136.5	261
250 - 275	10-11"	5.5	20	149	287
275 - 300	11-12"	5.5	20	162	312



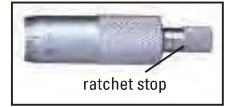
## SAYAÇLI DIŞ MİKROMETRE SETLERİ / Digit Outside Micrometer Sets With Counter



#### Ratchet stop

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
502 - 75	0 - 75	0.01	236.15
502 - 100	0 - 100	0.01	332.31
502 - 150	0 - 150	0.01	578.46
502 - 300	150 - 300	0.01	1227.69
502 - 300	0 - 300	0.01	1806.15

## SAYAÇLI DIŞ MİKROMETRELER Digit Outside Micrometers With Counter



### Özellikler:

- Hatasız ve çabuk ölçü almak için mekanik hane sayacı
- Elmas ölçüm yüzeyleri.
- Ölçüm hassasiyeti:  
Sayaç: 0.001mm(Metrik);0.0001"(Inch).  
Mikrometre yüzüğü: 0.01(Metrik);0.0001"(Inch).

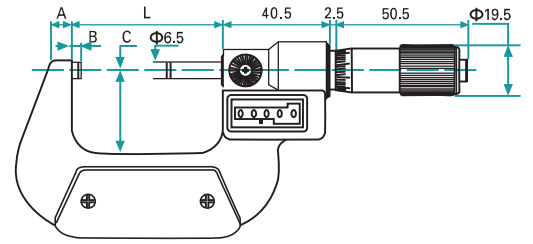
### Specifications:

- High resolution mechanical digit counter for quick and error-free reading.
- Carbide measuring faces.
- Resolution:  
Counter : 0.001mm(Metric);0.0001"(Inch).  
Micrometer Heads: 0.01(Metric);0.0001"(Inch).

Painted frame				Ratchet friction thimble
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
503 - 25	0 - 25	0.001	±4µm	102.31
503 - 50	25 - 50	0.001	±4µm	111.54
503 - 75	50 - 75	0.001	±5µm	122.31
503 - 100	75 - 100	0.001	±5µm	131.54
503 - 125	100 - 125	0.001	±6µm	148.46
503 - 150	125 - 150	0.001	±6µm	172.31
503 - 175	150 - 175	0.001	±7µm	190.77
503 - 200	175 - 200	0.001	±7µm	213.85

### Dimensions

RANGE mm	Inch	A mm	B mm	C mm	L mm
0-25	0-1"	6	3.0	24	32
25-50	1-2"	8	3.0	32	57
50-75	2-3"	8	3.0	45	82
75-100	3-4"	10	3.0	57	107
100-125	4-5"	10	3.0	70	133
125-150	5-6"	10	3.0	82	158
150-175	6-7"	12	5.5	95	183
175-200	7-8"	12	5.5	107	209

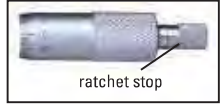


## SAYAÇLI DIŞ MİKROMETRE SETLERİ / Digit Outside Micrometers Sets With Counter



Ratchet friction thimble			
CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
504 - 75	0-75	0.001	336.15
504 - 100	0-100	0.001	467.69
504 - 150	0-150	0.001	789.23
504 - 200	0-200	0.001	1194.62

## ÖRS EKLENTİLİ MİKROMETRELER Micrometers With Anvil Attachment



### Özellikler:

- Geniş alan için kapak tipi örs eklentisi.
- Elmas ölçüm yüzeyleri.

### Specifications:

- Cap-type anvil attachment for a wide range.
- Carbide measuring faces.

Chrome plated frame

Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
505 - 50	0 - 50	0.01	±4µm	133.85

## DIŞ MİKROMETRELER (Sol ve Sağ Elle Kullanılabilir.) Outside Micrometers (For Left and Right Hand)



Sol el için / For left hand

### Özellikler:

- Sağ ve sol el ile kullanılabilir dış çap mikrometresi
- Elmas ölçüm yüzeyleri.

### Specifications:

- Two group graduations for right and left hand using.
- Carbide measuring faces.

Chrome plated frame

Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
506 - 25	0 - 25	0.01	±4µm	56.15
506 - 50	25 - 50	0.01	±4µm	61.54
506 - 75	50 - 75	0.01	±5µm	66.15
506 - 100	75 - 100	0.01	±5µm	73.08
506 - 125	100 - 125	0.01	±6µm	90.77
506 - 150	125 - 150	0.01	±6µm	105.38
506 - 175	150 - 175	0.01	±7µm	146.92
506 - 200	175 - 200	0.01	±7µm	169.23

## SAATLİ AYARLANABİLİR ELEKTRONİK ÖRSLÜ MİKROMETRELER

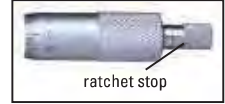
### Slide Anvil Micrometers With Dial Indicator

#### Özellikler:

- Geniş ölçme alanı ve ölçme hassasiyeti için hareketli örs.
- Saatli örs.
- Azami uygulama gücü :10N
- Saatin hareket mesafesi : 5mm
- Kriteri: DIN40050/IEC529.

#### Specifications:

- Slide anvil with a dial indicator for wide measuring range and high measuring accuracy.
- Anvil with dial indicator:
- Max measuring-force: 10N;
- Travel of dial indicator: 5mm.
- Criterion: DIN40050/IEC529.



IP54

Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
507 - 100	0 - 100	0.01	±3µm	<b>553.98</b>
507 - 200	100 - 200	0.01	±4µm	<b>682.15</b>
507 - 300	200 - 300	0.01	±5µm	<b>709.85</b>
507 - 400	300 - 400	0.01	±6µm	<b>866.77</b>
507 - 500	400 - 500	0.01	±7µm	<b>949.85</b>
507 - 600	500 - 600	0.01	±7µm	<b>1042.15</b>
507 - 700	600 - 700	0.01	±8µm	<b>1199.07</b>
507 - 800	700 - 800	0.01	±9µm	<b>1356.05</b>
507 - 900	800 - 900	0.01	±10µm	<b>1503.69</b>
507 - 1000	900 - 1000	0.01	±10µm	<b>1688.30</b>

## SAATLİ AYARLANABİLİR ÖRSLÜ MİKROMETRELER

### Slide Anvil Micrometers With Dial Indicator

**Özellikler:**

- Geniş ölçme alanı ve ölçme hassasiyeti için hareketli ve saatli örs.
- Saatli örs.
- Azami uygulama gücü :10N  
Saatli hareket mesafesi : 5mm

**Specifications:**

- Slide anvil with a dial indicator for wide measuring range and high measuring accuracy.
- Anvil with dial indicator:
- Max measuring-force: 10N;  
Travel of dial indicator: 5mm.



Ratchet stop				
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
509 - 100	0 - 100	0.01	±6µm	<b>353.08</b>
509 - 200	100 - 200	0.01	±7µm	<b>476.92</b>
509 - 300	200 - 300	0.01	±8µm	<b>503.08</b>
509 - 400	300 - 400	0.01	±9µm	<b>653.85</b>
509 - 500	400 - 500	0.01	±10µm	<b>733.08</b>
509 - 600	500 - 600	0.01	±11µm	<b>821.54</b>
509 - 700	600 - 700	0.01	±12µm	<b>972.31</b>
509 - 800	700 - 800	0.01	±13µm	<b>1123.31</b>
509 - 900	800 - 900	0.01	±14µm	<b>1263.85</b>
509 - 1000	900 - 1000	0.01	±15µm	<b>1440.77</b>

## DEĞİŞTİRİLEBİLİR ÖRSLÜ ELEKTRONİK MİKROMETRELER

### Electronic Micrometers With Interchangeable Anvils

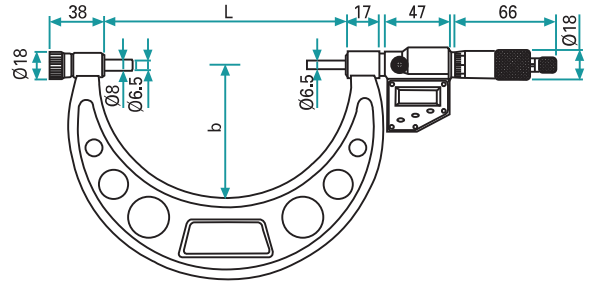


#### Özellikler:

- Değişirilebilir örs ile geniş ölçüm alanı. Yüksek hassasayetteki deęistirilebilir örsler, örsler deęistirilirken deęerin reset edilmesini gerektirmez.
- Elmas ölçüm yüzeyleri.
- Hafiflik ve sağlamlık (300mm/12" üzeri alanda) için gövde boru ile kombine edilmiştir.

#### Specifications:

- Wide measuring range with interchangeable anvils. High accuracy interchangeable anvils enable that reading does not have to be reset when changing anvils.
- Carbide measuring faces.
- Pipe combined frame for light weight and high rigidity (over 300mm/12" range).



#### IP54 Painted and fine cast frame

#### Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
511 - 100	0 - 100	0.001	±3µm	407.69
511 - 200	100 - 200	0.001	±4µm	438.46
511 - 300	200 - 300	0.001	±5µm	484.62
511 - 400	300 - 400	0.001	±6µm	569.23
511 - 500	400 - 500	0.001	±7µm	623.08
511 - 600	500 - 600	0.001	±7µm	700.00
511 - 700	600 - 700	0.001	±8µm	800.00
511 - 800	700 - 800	0.001	±9µm	907.69
511 - 900	800 - 900	0.001	±10µm	1030.77
511 - 1000	900 - 1000	0.001	±10µm	1130.77
512 - 150	0 - 150	0.001	±3µm	453.85
512 - 300	150 - 300	0.001	±5µm	507.69
512 - 450	300 - 450	0.001	±6µm	712.31
512 - 600	450 - 600	0.001	±7µm	860.00
512 - 750	600 - 750	0.001	±9µm	989.23
512 - 900	750 - 900	0.001	±10µm	1122.31
512 - 1050	900 - 1050	0.001	±10µm	1237.69

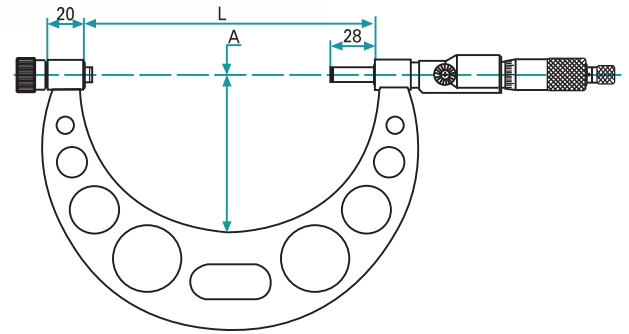
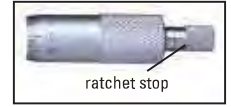
#### Dimensions

RANGE mm	L mm	b mm
0 - 100	105	57
0 - 150	155	82
150 - 300	305	165
200 - 300	305	165
300 - 400	405	224
400 - 500	505	275
500 - 600	605	321
600 - 700	705	371
700 - 800	805	426
800 - 900	905	476
900 - 100	1005	576

AB-35

## DEĞİŞTİRİLEBİLİR ÖRSLÜ MİKROMETRELER

### Micrometers With Interchangeable Anvils



Fine cast frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
516 - 50	0 - 50	0.01	$\pm 4\mu\text{m}$	<b>116.15</b>
516 - 100	50 - 100	0.01	$\pm 5\mu\text{m}$	<b>138.46</b>
517 - 100	0 - 100	0.01	$\pm 5\mu\text{m}$	<b>230.00</b>
517 - 200	100 - 200	0.01	$\pm 7\mu\text{m}$	<b>332.31</b>
517 - 300	200 - 300	0.01	$\pm 9\mu\text{m}$	<b>356.92</b>
518 - 150	0 - 150	0.01	$\pm 6\mu\text{m}$	<b>292.31</b>
518 - 300	150 - 300	0.01	$\pm 9\mu\text{m}$	<b>368.46</b>

Dimensions					
RANGE mm	Inch	A mm	L mm	Anvil	Standard
0-50	0-2"	35	58	2	1
50 -100	2-4"	57	108	2	2
0-100	0-4"	57	108	4	3
100-200	4-8"	114	208	4	4
200-300	8-12"	165	308	4	4
0-150	0-6"	82	158	6	5
150-300	6-12"	165	308	6	6

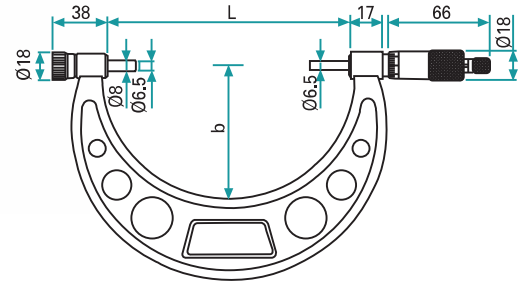
## DEĞİŞTİRİLEBİLİR ÖRSLÜ MİKROMETRELER Micrometers With Interchangeable Anvils

### Özellikler:

- Çelik yassı gövde (kapsam 300mm/12" alan dahilinde)  
Boru ile kombine gövde (300mm/12" alan dahilinde)
- Ölçüm hassasiyeti: 300mm/12": Çelik yassı gövde  
0.01mm (Metrik); 0.0001"(Inch)  
300mm/12" üzerinde: boru kombine gövde  
0.001mm(Metrik); 0.0001"(Inch)

### Specifications:

- Steel-plate frame(Within 300mm/12" range);  
Pipe combined frame(Over 300mm/12" range).
- Resolution:  
Within 300mm/12": Steel-plate frame  
0.01mm(Metric); 0.0001"(Inch).  
Over 300mm/12": Pipe combined frame  
0.01mm(Metric); 0.001"(Inch).



Ratchet stop				
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
519 - 400	300 - 400	0.01	±11µm	<b>489.23</b>
519 - 500	400 - 500	0.01	±13µm	<b>553.85</b>
519 - 600	500 - 600	0.01	±15µm	<b>636.92</b>
519 - 700	600 - 700	0.01	±16µm	<b>766.15</b>
519 - 800	700 - 800	0.01	±18µm	<b>895.38</b>
519 - 900	800 - 900	0.01	±20µm	<b>1015.38</b>
519 - 1000	900 - 1000	0.01	±20µm	<b>1163.08</b>

Dimensions					
RANGE mm	Inch	A mm	L mm	Anvil	Standard
300-400	12-16"	224	409	4	2
400-500	16-20"	275	509	4	2
500-600	20-24"	321	609	4	2
600-700	24-28"	371	709	4	2
700-800	28-32"	426	809	4	2
800-900	32-36"	476	909	4	2
900-1000	36-40"	576	1009	4	2



## AYARLANABİLİR ÖRSLÜ MİKROMETRELER

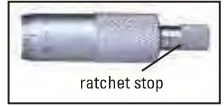
### Micrometers With Adjustable Anvils

#### Özellikler:

- Ayarlı örs ile geniş ölçüm alanı.
- Yüksek hassasiyetteki standart uzatmalar, uzatma değiştirilirken değerin reset edilmesini gerektirmez.
- Standart uzatma: 1000/40" arasında 25mm/1", 500mm/2", 1000mm/40": 50mm/2"n üzerinde.
- Elmas ölçüm yüzeyleri
- Boru kombineli gövde hafiflik ve sağlamlık içindir.

#### Specifications:

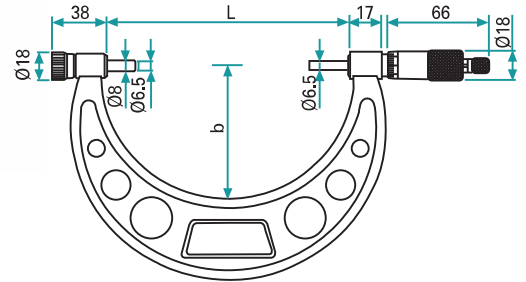
- Wide measuring range with adjustable anvil.
- High accuracy standard collars enable that reading does not have to be reset when changing collars.
- Standard collars:  
Within 1000mm/40": 25mm/1", 50mm/2"  
Over 1000mm/40": 50mm/2", 100mm/4"
- Carbide measuring faces.
- Pipe combined frame for light weight and high rigidity.



ratchet stop



ratchet friction thimble



Travel of micrometer head:25mm/1

Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
521 - 400	300 - 400	0.01	±11µm	<b>387.69</b>
521 - 500	400 - 500	0.01	±13µm	<b>438.46</b>
521 - 600	500 - 600	0.01	±15µm	<b>516.92</b>
521 - 700	600 - 700	0.01	±16µm	<b>618.46</b>
521 - 800	700 - 800	0.01	±18µm	<b>729.23</b>
521 - 900	800 - 900	0.01	±20µm	<b>849.23</b>
521 - 1000	900 - 1000	0.01	±20µm	<b>950.77</b>

Travel of micrometer head:50mm/2"

Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
522 - 1200	1000 - 1200	0.01	±20µm	<b>1753.85</b>
522 - 1400	1200 - 1400	0.01	±24µm	<b>1873.85</b>
522 - 1600	1400 - 1600	0.01	±28µm	<b>2086.15</b>
522 - 1800	1600 - 1800	0.01	±31µm	<b>2215.38</b>
522 - 2000	1800 - 2000	0.01	±34µm	<b>2344.62</b>
522 - 2200	2000 - 2200	0.01	±40µm	
522 - 2400	2200 - 2400	0.01	±44µm	
522 - 2600	2400 - 2600	0.01	±48µm	
522 - 2800	2600 - 2800	0.01	±52µm	
522 - 3000	2800 - 3000	0.01	±56µm	

## AYARLANABİLİR ÖRSLÜ MİKROMETRELER (Kumpas Tipi)

### Micrometers With Adjustable Anvils (Caliper Type)



				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
523 - 1200	1000 - 1200	0.01	±20µm	<b>1504.62</b>
523 - 1400	1200 - 1400	0.01	±24µm	<b>1624.62</b>
523 - 1600	1400 - 1600	0.01	±28µm	<b>1744.62</b>
523 - 1800	1600 - 1800	0.01	±31µm	<b>1873.85</b>
523 - 2000	1800 - 2000	0.01	±34µm	<b>2003.08</b>
523 - 2200	2000 - 2200	0.01	±40µm	<b>2150.77</b>
523 - 2400	2200 - 2400	0.01	±44µm	<b>2649.23</b>
523 - 2600	2400 - 2600	0.01	±48µm	<b>3276.92</b>
523 - 2800	2600 - 2800	0.01	±52µm	<b>3904.62</b>
523 - 3000	2800 - 3000	0.01	±56µm	<b>4550.77</b>

#### Özellikler:

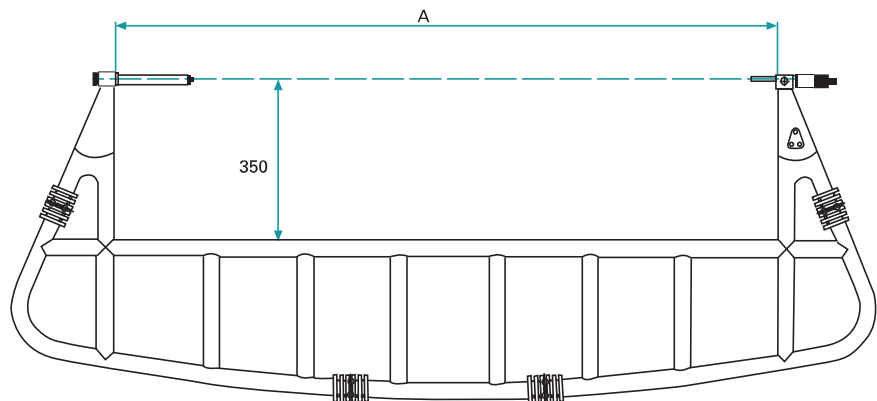
- Ayarlı örs ile geniş ölçüm alanı.
- Yüksek hassasiyetteki standart uzatmalar, uzatma değiştirilirken değerin reset edilmesini gerektirmez.
- Mikrometre kafasının uzayabilme mesafesi: 50mm/2"  
Mikrometre dişlisinin hatvesi :1mm/0.025"  
Boğaz derinliği: 350mm/14"
- Standart uzatma: 50mm/2", 100mm/4".
- Elmas ölçüm yüzeyleri.

#### Specifications:

- Wide measuring range with adjustable anvil.
- High accuracy standard collars enable that reading does not have to be reset when changing collars.
- Travel of micrometer head: 50mm/2";  
Micrometer thread pitch: 1mm/0.025";  
Throat depth: 350mm/14".
- Standard collars: 50mm/2", 100mm/4".
- Carbide measuring faces.

#### Dimensions

Order No.	A
523 - 1200	1218±0.3
523 - 1400	1418±0.3
523 - 1600	1618±0.3
523 - 1800	1818±0.3
523 - 2000	2018±0.3
523 - 2200	2218±0.3
523 - 2400	2418±0.3
523 - 2600	2618±0.3
523 - 2800	2818±0.3
523 - 3000	3018±0.3



## SAATLİ MİKROMETRELER

### Micrometers With Dial Indicator


**Özellikler:**

- Seri üretim parçalarda doğrudan Geçer/Geçmez kontrolü.
- Örs geri çekilebilme sınırı: 8mm
- Elmas ölçüm yüzeyleri.

**Specifications:**

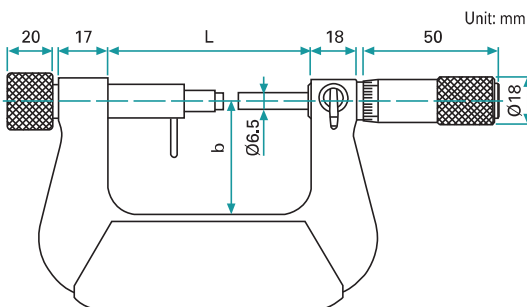
- Direct GO/NG judgment for mass-produced parts.
- Anvil retracting range: 8mm.
- Carbide measuring faces.

**Chrome plated frame**

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
524 - 25	0 - 25	0,01	±4µm	<b>313.85</b>
524 - 50	25 - 50	0,01	±4µm	<b>334.62</b>
524 - 75	50 - 75	0,01	±5µm	<b>354.62</b>
524 - 100	75 - 100	0,01	±5µm	<b>375.38</b>

**Painted frame**

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
525 - 25	0 - 25	0,01	±4µm	<b>273.08</b>
525 - 50	25 - 50	0,01	±4µm	<b>290.77</b>
525 - 75	50 - 75	0,01	±5µm	<b>308.46</b>
525 - 100	75 - 100	0,01	±5µm	<b>326.15</b>
525 - 125	100 - 125	0,01	±6µm	<b>343.85</b>
525 - 150	125 - 150	0,01	±6µm	<b>361.54</b>
525 - 175	150 - 175	0,01	±7µm	<b>379.23</b>


**Dimensions**

RANGE mm	L mm	b mm
0-25	67	38
25-50	92.4	50
50-75	117.6	62
75-100	143	70
100-125	168.2	82
125-150	192	94.5
150-175	217	107

## TAHDİTLİ MİKROMETRELER

### Limit Micrometers



#### Özellikler:

- Üst ve alt limitlere ayarlanarak Geçer/Geçmez master olarak kullanılabilir.
- Elmas ölçüm yüzeyleri.

#### Specifications:

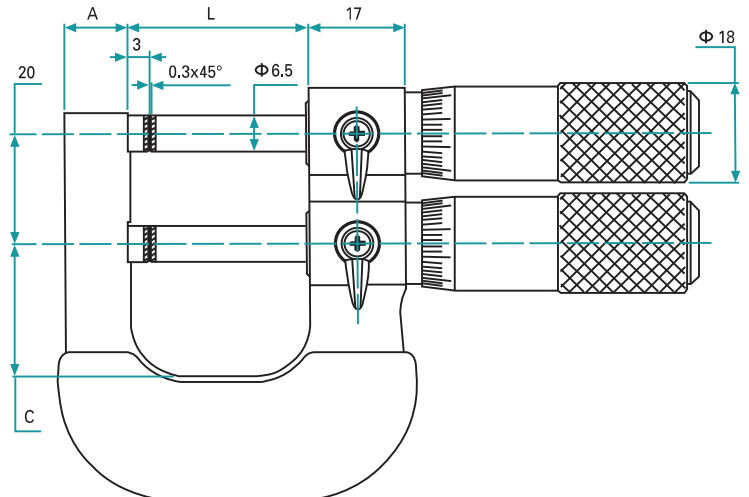
- Can be used a GO/NG as gage by setting the upper and lower limits.
- Carbide measuring faces.

#### Painted frame

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
526 - 25	0 - 25	0.002	$\pm 3\mu\text{m}$	<b>131.54</b>
526 - 50	25 - 50	0.002	$\pm 3\mu\text{m}$	<b>158.46</b>

#### Dimensions

RANGE mm	A mm	L mm	C mm
0-25	12	32	24
25-50	15	57	32



**PASAMETRELER**
**Indicator Snap Micrometers**


527-25



529-25

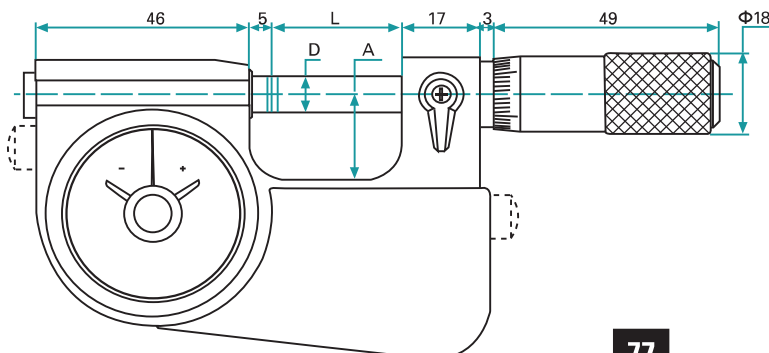
CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
<b>MODEL A (Ø 6.5)</b>			Painted frame
527 - 25	0 - 25	0.001	<b>452.31</b>
527 - 50	25 - 50	0.001	<b>520.00</b>
527 - 75	50 - 75	0.001	<b>589.23</b>
527 - 100	75 - 100	0.001	<b>683.85</b>
<b>MODEL A (Ø 8)</b>			Painted frame
528 - 25	0 - 25	0.001	<b>542.31</b>
528 - 50	25 - 50	0.001	<b>623.85</b>
528 - 75	50 - 75	0.001	<b>706.92</b>
528 - 100	75 - 100	0.001	<b>820.00</b>
<b>MODEL B</b>			Painted frame
529 - 25	0 - 25	0.001	<b>452.31</b>
			Chrome plated frame
530 - 25	0 - 25	0.001	<b>587.69</b>
530 - 50	25 - 50	0.001	<b>676.15</b>
			Chrome plated frame
531 - 25	0 - 25	0.001	<b>587.69</b>

**Özellikler:**

- Seri üretilmiş parçaların hassas ölçümü için göstergeli geri çekilebilir örs.
- Elmas ölçüm yüzeyleri.
- Mikrometre hassasiyeti: 0.003mm/0.00005"
- Gösterge hassasiyeti: 0.001mm/0.00005"
- İş parçası dayanıksız 8mm (Model A)

**Specifications:**

- Retractable anvil with an indicator for precision measurement of mass-produced parts.
- Carbide measuring faces.
- Micrometer accuracy : 0.003mm/0.00012";  
Indicator accuracy : 0.001mm/0.00005".
- Ø8mm without workpiece stopper(Model A).


**Dimensions**

RANGE mm	Inch	L mm	A mm	D mm
<b>MODEL A</b>				
0-25	0-1"	28.5	19	Ø6.5/Ø8
25-50	1-2"	53.5	30	Ø6.5/Ø8
50-75	2-3"	78.5	45	Ø6.5/Ø8
75-100	3-4"	103.5	57	Ø6.5/Ø8
<b>MODEL B</b>				
0-25	0-1"	28.5	19	Ø8

## PASAMETRELER Indicator Snap Micrometers

### Özellikler:

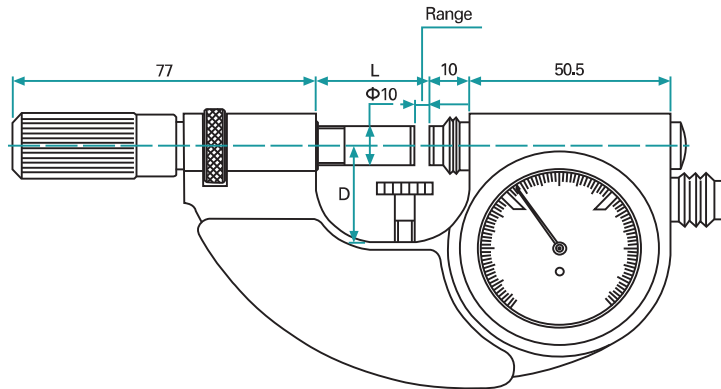
- Elmas ölçüm yüzeyleri. Ø10.
- Seri üretilmiş parçaların doğruca Geçer/Geçmez kontrolü.
- Ölçüm basıncı: 5-10N
- Gösterge alanı:  $\pm 0.04\text{mm}$ (Metrik);  
 $\pm 0.0015$ "(Inch).

### Specifications:

- Carbide measuring faces. Ø10.
- Direct GO/NG judgement for mass-produced parts.
- Measuring-force: 5-10N
- Indicator Range:  $\pm 0.04\text{mm}$ (Metric);  
 $\pm 0.0015$ "(Inch).



IP54				Painted frame
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
532 - 25	0 - 25	0.001	$\pm 1\mu\text{m}$	<b>606.92</b>
532 - 50	25 - 50	0.001	$\pm 1\mu\text{m}$	<b>668.46</b>
532 - 75	50 - 75	0.001	$\pm 1\mu\text{m}$	<b>714.62</b>
532 - 100	75 - 100	0.001	$\pm 1\mu\text{m}$	<b>768.46</b>



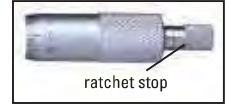
### Dimensions

RANGE mm	Inch	L mm	D mm
0-25	0-1"	28.5	25
25-50	1-2"	53.5	35
50-75	2-3"	78.5	47.5
75-100	3-4"	103.5	60

AD-1

# ELEKTRONİK TEK SİVRİ UÇLU MİKROMETRELER

## Electronic Single Point Micrometers



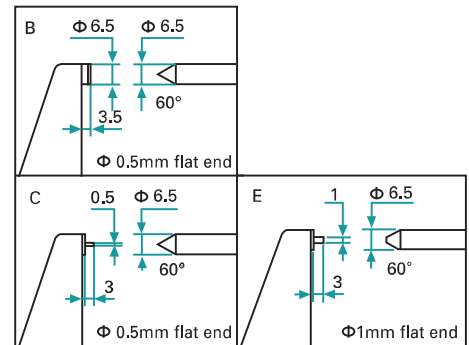
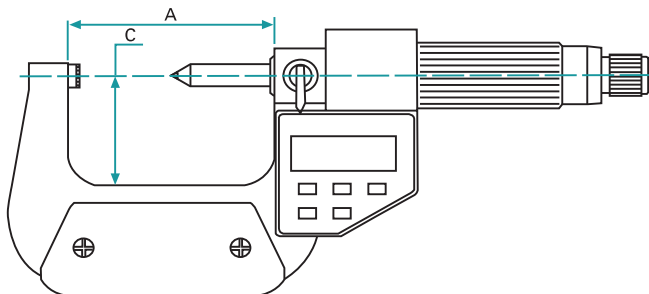
### Özellikler:

- Matkap uçları, yiv ve ulaşılması zor boyutları ölçmek için sivri örs ve spindil.
- Oluklu yerlerin yüksekliğini ölçmede kullanılan tek uçlu mikrometreler için düz veya bıçak örs.
- Elmas ölçüm uçları.

### Specifications:

- Pointed spindle and anvil for measuring drills, grooves and hard-to-reach dimensions.
- Flat or blade anvil for single point micrometers for measuring the height of crimp contacts.
- Carbide-tipped measuring faces.

Painted frame IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL B</b>				
533 - 25	0-25	0.001	±2µm	<b>338.46</b>
533 - 50	25-50	0.001	±2µm	<b>361.54</b>
533 - 75	50-75	0.001	±3µm	<b>384.62</b>
533 - 100	75-100	0.001	±3µm	<b>407.69</b>
<b>MODEL C</b>				
534 - 25	0-25	0.001	±2µm	<b>338.46</b>
<b>MODEL E</b>				
535 - 25	0-25	0.001	±2µm	<b>338.46</b>

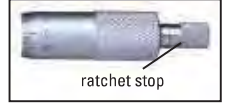


### Dimensions

RANGE mm	Inch	A mm	C mm
0-25	0-1"	34.4	24
25-50	1-2"	59.4	32
50-75	2-3"	84.8	44.5
75-100	3-4"	110.2	57

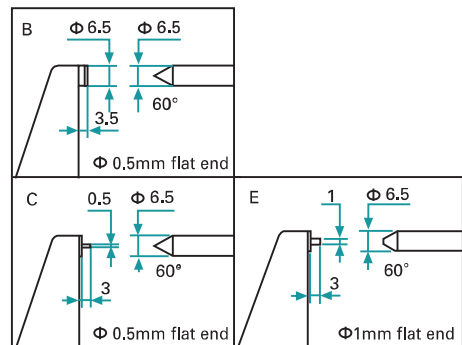
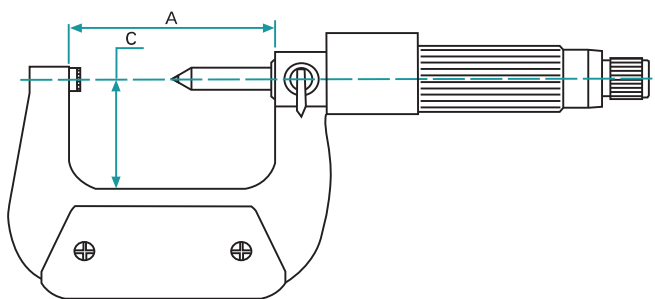
# TEK SİVRİ UÇLU MİKROMETRELER

## Single Point Micrometers



Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL B</b>				
539 - 25	0-25	0.01	±4µm	<b>107.69</b>
539 - 50	25-50	0.01	±4µm	<b>116.92</b>
539 - 75	50-75	0.01	±5µm	<b>125.38</b>
539 - 100	75-100	0.01	±5µm	<b>150.77</b>
<b>MODEL C</b>				
540 - 25	0-25	0.01	±4µm	<b>107.69</b>
<b>MODEL E</b>				
541 - 25	0-25	0.01	±4µm	<b>107.69</b>

Chrome plated frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL B</b>				
542 - 25	0-25	0.01	±4µm	<b>123.85</b>
542 - 50	25-50	0.01	±4µm	<b>134.62</b>
542 - 75	50-75	0.01	±5µm	<b>143.85</b>
542 - 100	75-100	0.01	±5µm	<b>173.08</b>
<b>MODEL C</b>				
543 - 25	0-25	0.01	±4µm	<b>123.85</b>
<b>MODEL E</b>				
544 - 25	0-25	0.01	±4µm	<b>123.85</b>



Dimensions				
RANGE mm	Inch	A mm	C mm	
0-25	0-1"	34.4	24	
25-50	1-2"	59.4	32	
50-75	2-3"	84.8	44.5	
75-100	3-4"	110.2	57	



# ELEKTRONİK SIVRİ UÇLU MİKROMETRELER

## Electronic Point Micrometers



### Özellikler:

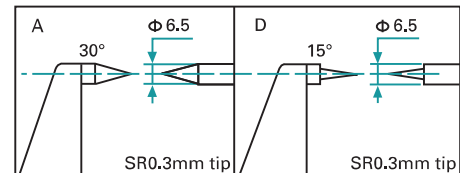
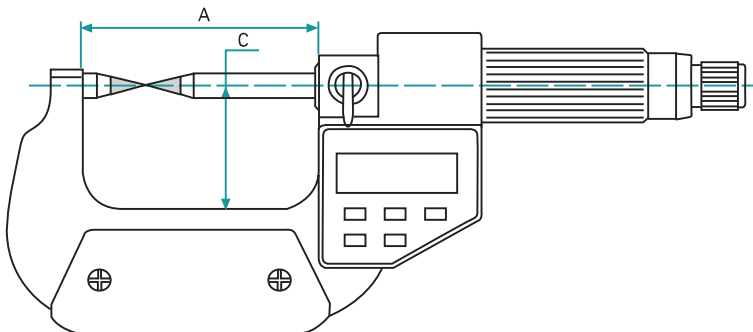
- Matkap oluklarını ve erişilmesi zor yerdeki boyutları ölçmek için sivri örs ve spindil.
- Elmas ölçüm yüzeyleri.

### Specifications:

- Pointed spindle and anvil for measuring drills, grooves and hard-to-reach dimensions.
- Carbide-tipped measuring faces.

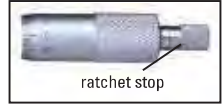
Painted frame IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL A</b>				
546 - 25	0-25	0.001	±2µm	<b>338.46</b>
546 - 50	25-50	0.001	±2µm	<b>361.54</b>
546 - 75	50-75	0.001	±3µm	<b>384.62</b>
546 - 100	75-100	0.001	±3µm	<b>407.69</b>

Painted frame IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL D</b>				
547 - 25	0-25	0.001	±2µm	<b>338.46</b>
547 - 50	25-50	0.001	±2µm	<b>361.54</b>
547 - 75	50-75	0.001	±3µm	<b>384.62</b>
547 - 100	75-100	0.001	±3µm	<b>407.69</b>



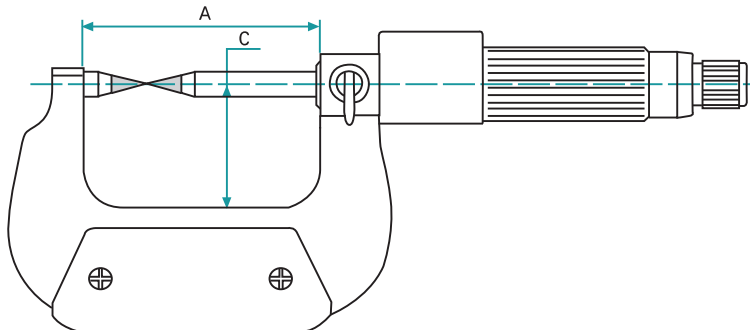
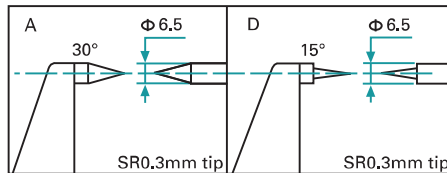
Dimensions				
RANGE mm	Inch	A mm	C mm	
0-25	0-1"	57	32	
25-50	1-2"	82	44.5	
50-75	2-3"	107	57	
75-100	3-4"	132.6	69.5	

## SIVRI UÇLU MİKROMETRELER Point Micrometers



Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL A</b>				
560 - 25	0-25	0.01	±4μm	<b>107.69</b>
560 - 50	25-50	0.01	±4μm	<b>116.92</b>
560 - 75	50-75	0.01	±5μm	<b>125.38</b>
560 - 100	75-100	0.01	±5μm	<b>150.77</b>

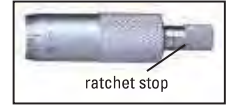
Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL D</b>				
561 - 25	0-25	0.01	±4μm	<b>107.69</b>
561 - 50	25-50	0.01	±4μm	<b>116.92</b>
561 - 75	50-75	0.01	±5μm	<b>125.38</b>
561 - 100	75-100	0.01	±5μm	<b>150.77</b>



Dimensions			
RANGE mm	Inch	A mm	C mm
0-25	0-1"	57	32
25-50	1-2"	82	44.5
50-75	2-3"	107	57
75-100	3-4"	132.6	69.5

# ELEKTRONİK BORU MİKROMETRELERİ

## Electronic Tube Micrometers


**Özellikler:**

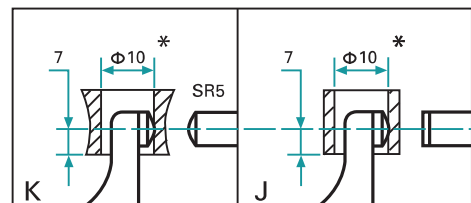
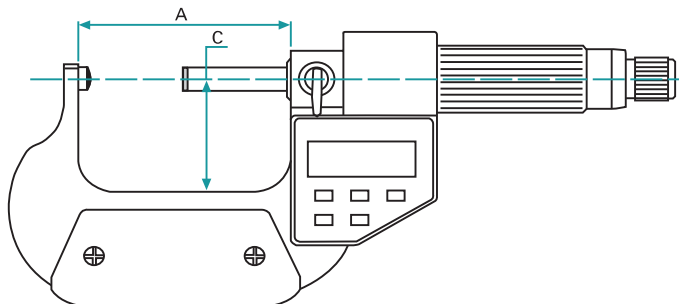
- Çeşitli boruların duvar kalınlığını ölçmek içindir.
- Elmas ölçüm yüzeyleri.
- Kriteri: DIN40050/IEC529

**Specifications:**

- For measuring wall thickness of various tubes.
- Carbide-tipped measuring faces.
- Criterion: DIN40050/IEC529.

Painted frame IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL J</b>				
564 - 25	0-25	0.001	±2µm	<b>298.46</b>
564 - 50	25-50	0.001	±2µm	<b>327.69</b>
564 - 75	50-75	0.001	±3µm	<b>360.00</b>
564 - 100	75-100	0.001	±3µm	<b>396.15</b>

Painted frame IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL K</b>				
565 - 25	0-25	0.001	±2µm	<b>298.46</b>
565 - 50	25-50	0.001	±2µm	<b>327.69</b>
565 - 75	50-75	0.001	±3µm	<b>360.00</b>
565 - 100	75-100	0.001	±3µm	<b>396.15</b>

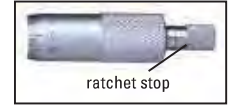


\* Ölçülen çapın asgari boyutu

\* Min dimension of measured diameter.

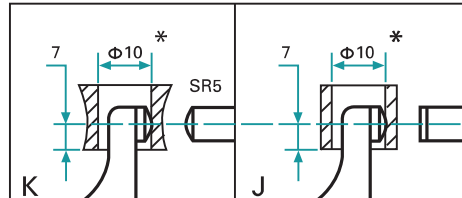
Dimensions				
RANGE mm	Inch	A mm	C mm	
0-25	0-1"	32	24	
25-50	1-2"	57	32	
50-75	2-3"	82	44.5	
75-100	3-4"	107	57	

## BORU MİKROMETRELERİ Tube Micrometers



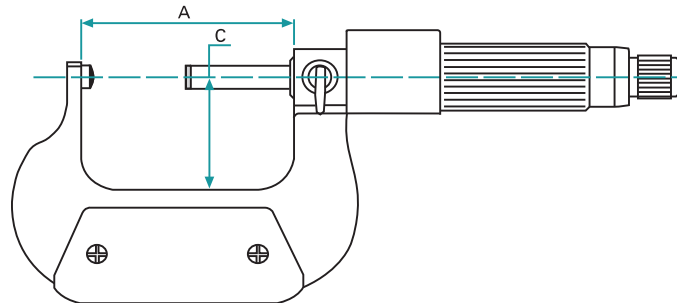
Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL J</b>				
568 - 25	0-25	0.01	±4μm	<b>53.08</b>
568 - 50	25-50	0.01	±4μm	<b>66.92</b>
568 - 75	50-75	0.01	±5μm	<b>110.77</b>
568 - 100	75-100	0.01	±5μm	<b>133.08</b>

Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL K</b>				
568 - 25	0-25	0.01	±4μm	<b>53.08</b>
568 - 50	25-50	0.01	±4μm	<b>66.92</b>
568 - 75	50-75	0.01	±5μm	<b>110.77</b>
568 - 100	75-100	0.01	±5μm	<b>133.08</b>



\* Ölçülen çapın asgari boyutu

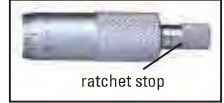
\* Min dimension of measured diameter.



Dimensions			
RANGE mm	Inch	A mm	C mm
0-25	0-1"	32	24
25-50	1-2"	57	32
50-75	2-3"	82	44.5
75-100	3-4"	107	57

# ELEKTRONİK BORU MİKROMETRELERİ

## Electronic Tube Micrometers

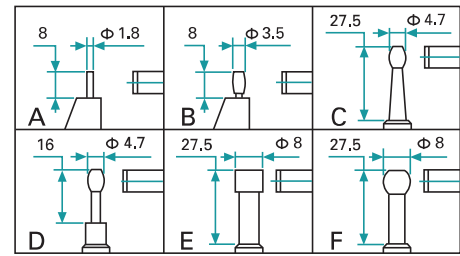
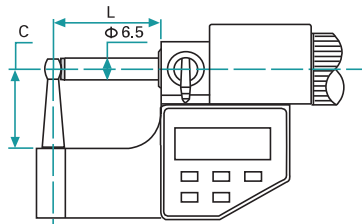
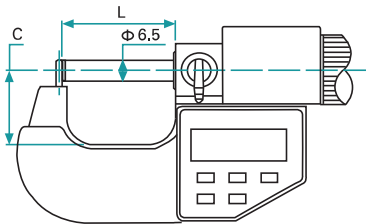

**Özellikler:**

- Çeşitli boruların duvar kalınlığını ölçmek içindir.
- Elmas ölçüm yüzeyleri.
- Kriteri: DIN40050/IEC529

**Specifications:**

- For measuring wall thickness of various tubes.
- Carbide-tipped measuring faces.
- Criterion: DIN40050/IEC529.

Painted frame <b>IP54</b>				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL A</b>				
572 - 25	0-25	0.001	±3µm	<b>330.77</b>
572 - 50	25-50	0.001	±3µm	<b>361.54</b>
<b>MODEL C</b>				
573 - 25	0-25	0.001	±3µm	<b>330.77</b>
573 - 50	25-50	0.001	±3µm	<b>361.54</b>
<b>MODEL B</b>				
574 - 25	0-25	0.001	±3µm	<b>330.77</b>
574 - 50	25-50	0.001	±3µm	<b>361.54</b>
<b>MODEL D</b>				
575 - 25	0-25	0.001	±3µm	<b>330.77</b>
575 - 50	25-50	0.001	±3µm	<b>361.54</b>
<b>MODEL E</b>				
576 - 25	0-25	0.001	±3µm	<b>330.77</b>
576 - 50	25-50	0.001	±3µm	<b>361.54</b>
<b>MODEL F</b>				
577 - 25	0-25	0.001	±3µm	<b>330.77</b>
577 - 50	25-50	0.001	±3µm	<b>361.54</b>

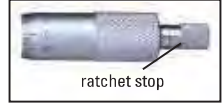
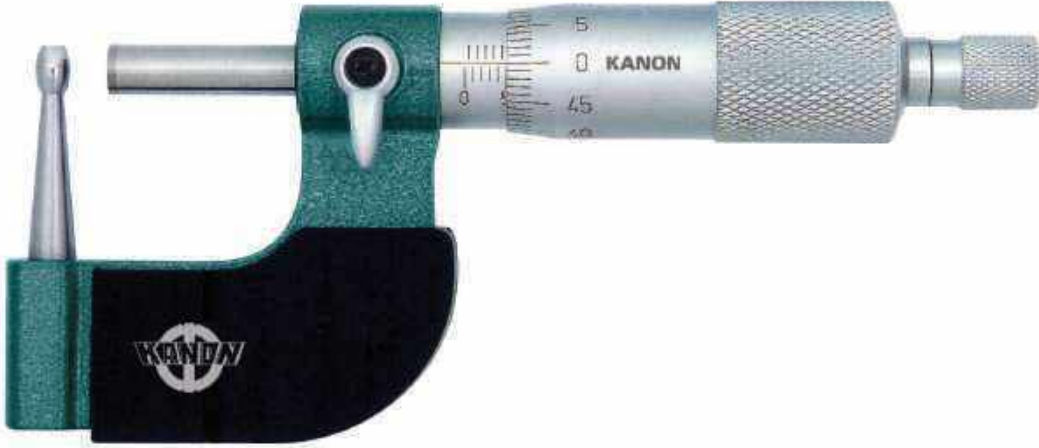

**Dimensions**

RANGE mm	Inch	A mm	C mm
0-25	0-1"	31	24
25-50	1-2"	57	32

# BORU MİKROMETRELERİ

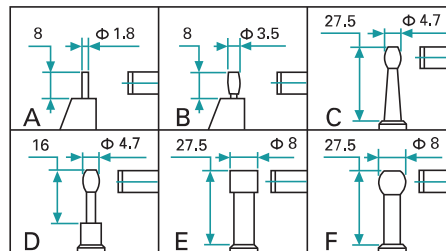
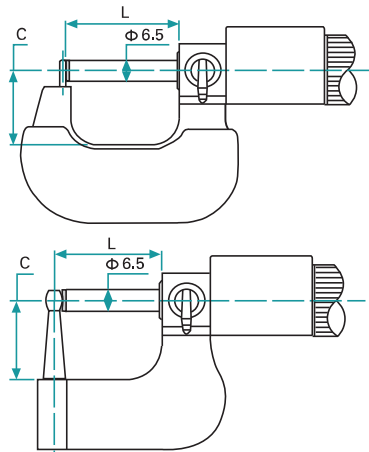
AD-8

## Tube Micrometers



Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL A</b>				
585 - 25	0-25	0.01	±6µm	<b>66.92</b>
585 - 50	25-50	0.01	±6µm	<b>77.69</b>
<b>MODEL B</b>				
586 - 25	0-25	0.01	±6µm	<b>66.92</b>
586 - 50	25-50	0.01	±6µm	<b>77.69</b>
<b>MODEL C</b>				
587 - 25	0-25	0.01	±6µm	<b>66.92</b>
587 - 50	25-50	0.01	±6µm	<b>77.69</b>
<b>MODEL D</b>				
588 - 25	0-25	0.01	±6µm	<b>66.92</b>
588 - 50	25-50	0.01	±6µm	<b>77.69</b>
<b>MODEL E</b>				
590 - 25	0-25	0.01	±6µm	<b>66.92</b>
590 - 50	25-50	0.01	±6µm	<b>77.69</b>
<b>MODEL F</b>				
591 - 25	0-25	0.01	±6µm	<b>66.92</b>
591 - 50	25-50	0.01	±6µm	<b>77.69</b>

Chrome frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL A</b>				
592 - 25	0-25	0.01	±6µm	<b>76.92</b>
592 - 50	25-50	0.01	±6µm	<b>89.23</b>
<b>MODEL B</b>				
593 - 25	0-25	0.01	±6µm	<b>76.92</b>
593 - 50	25-50	0.01	±6µm	<b>89.23</b>
<b>MODEL C</b>				
594 - 25	0-25	0.01	±6µm	<b>76.92</b>
594 - 50	25-50	0.01	±6µm	<b>89.23</b>
<b>MODEL D</b>				
595 - 25	0-25	0.01	±6µm	<b>76.92</b>
595 - 50	25-50	0.01	±6µm	<b>89.23</b>
<b>MODEL E</b>				
596 - 25	0-25	0.01	±6µm	<b>76.92</b>
596 - 50	25-50	0.01	±6µm	<b>89.23</b>
<b>MODEL F</b>				
597 - 25	0-25	0.01	±6µm	<b>76.92</b>
597 - 50	25-50	0.01	±6µm	<b>89.23</b>



### Dimensions

RANGE mm	Inch	A mm	C mm
0-25	0-1"	31	24
25-50	1-2"	57	32

# ELEKTRONİK KÜÇÜK ÖLÇME YÜZEYLİ MİKROMETRELER

## Electronic Small Measuring Faces Micrometers


**Özellikler:**

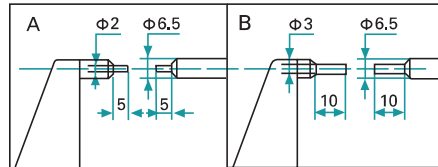
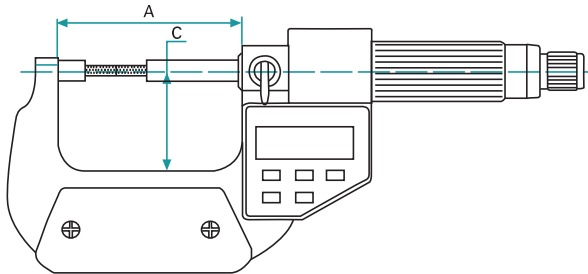
- Küçük ölçü yüzeyleri şaft kanalları, yarıkları ve kama yuvalarını ölçmek içindir.
- Elmas ölçüm yüzeyleri.
- Kriteri: DIN40050/IEC529

**Specifications:**

- Small measuring faces for measuring splined shafts, slots and keyways.
- Carbide-tipped measuring faces.
- Criterion: DIN40050/IEC529.

Painted frame <b>IP54</b>				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL A</b>				
599 - 25	0-25	0.001	±2µm	<b>338.46</b>
599 - 50	25-50	0.001	±2µm	<b>361.54</b>
599 - 75	50-75	0.001	±3µm	<b>384.62</b>
599 - 100	75-100	0.001	±3µm	<b>407.69</b>
599 - 125	100-125	0.001	±3µm	<b>430.00</b>
599 - 150	125-150	0.001	±3µm	<b>445.38</b>
599 - 175	150-175	0.001	±4µm	<b>468.46</b>

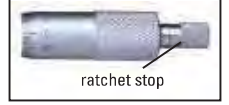
Painted frame <b>IP54</b>				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL B</b>				
601 - 25	0-25	0.001	±2µm	<b>338.46</b>
601 - 50	25-50	0.001	±2µm	<b>361.54</b>
601 - 75	50-75	0.001	±3µm	<b>384.62</b>
601 - 100	75-100	0.001	±3µm	<b>407.69</b>
601 - 125	100-125	0.001	±3µm	<b>430.00</b>
601 - 150	125-150	0.001	±3µm	<b>445.38</b>
601 - 175	150-175	0.001	±4µm	<b>468.46</b>


**Dimensions**

RANGE mm	Inch	A mm	C mm
0-25	0-1"	57	32
25-50	1-2"	82	44,5
50-75	2-3"	107	57
75-100	3-4"	132,6	69,5
100-125	4-5"	158	82
125-150	5-6"	183,4	94,5
150-175	6-7"	208,8	107

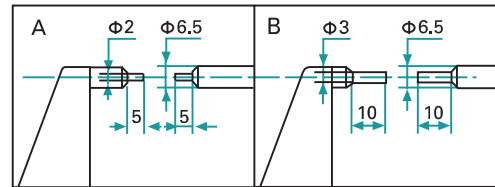
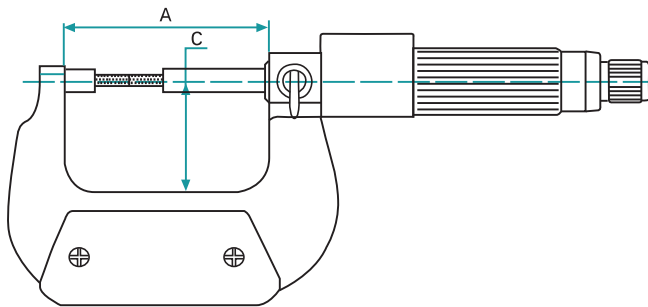
## KÜÇÜK ÖLÇME YÜZEYLİ MİKROMETRELER

### Small Measuring Faces Micrometers



Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL A</b>				
604 - 25	0-25	0.01	±4μm	<b>107.69</b>
604 - 50	25-50	0.01	±4μm	<b>116.92</b>
604 - 75	50-75	0.01	±5μm	<b>125.38</b>
604 - 100	75-100	0.01	±5μm	<b>150.77</b>
604 - 125	100-125	0.01	±6μm	<b>180.77</b>
604 - 150	125-150	0.01	±6μm	<b>216.92</b>
604 - 175	150-175	0.01	±7μm	<b>260.00</b>
<b>MODEL B</b>				
605 - 25	0-25	0.01	±4μm	<b>107.69</b>
605 - 50	25-50	0.01	±4μm	<b>116.92</b>
605 - 75	50-75	0.01	±5μm	<b>125.38</b>
605 - 100	75-100	0.01	±5μm	<b>150.77</b>
605 - 125	100-125	0.01	±6μm	<b>180.77</b>
605 - 150	125-150	0.01	±6μm	<b>216.92</b>
605 - 175	150-175	0.01	±7μm	<b>260.00</b>

Chrome plated frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL A</b>				
607 - 25	0-25	0.01	±4μm	<b>123.85</b>
607 - 50	25-50	0.01	±4μm	<b>134.62</b>
607 - 75	50-75	0.01	±5μm	<b>143.85</b>
607 - 100	75-100	0.01	±5μm	<b>173.08</b>
607 - 125	100-125	0.01	±6μm	<b>207.69</b>
607 - 150	125-150	0.01	±6μm	<b>249.23</b>
607 - 175	150-175	0.01	±7μm	<b>299.23</b>
<b>MODEL B</b>				
608 - 25	0-25	0.01	±4μm	<b>123.85</b>
608 - 50	25-50	0.01	±4μm	<b>134.62</b>
608 - 75	50-75	0.01	±5μm	<b>143.85</b>
608 - 100	75-100	0.01	±5μm	<b>173.08</b>
608 - 125	100-125	0.01	±6μm	<b>207.69</b>
608 - 150	125-150	0.01	±6μm	<b>249.23</b>
608 - 175	150-175	0.01	±7μm	<b>299.23</b>



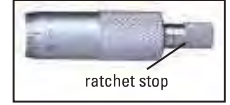
Dimensions				
RANGE mm	Inch	A mm	C mm	
0-25	0-1"	57	32	
25-50	1-2"	82	44.5	
50-75	2-3"	107	57	
75-100	3-4"	132.6	69.5	
100-125	4-5"	158	82	
125-150	5-6"	183.4	94.5	
150-175	6-7"	208.8	107	



AD-11

## ELEKTRONİK MENGENE TİPİ MİKROMETRELER

### Electronic Jaw Type Micrometers



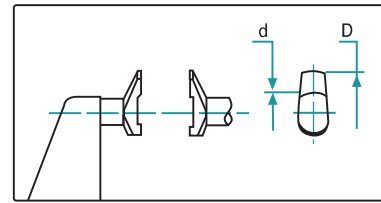
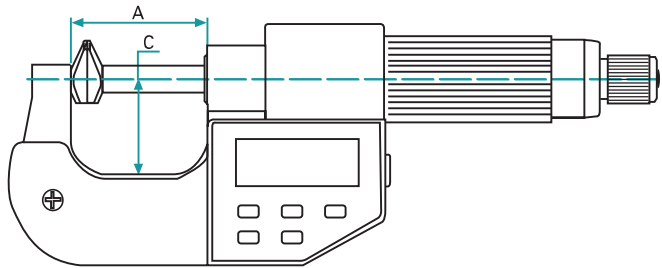
#### Özellikler:

- Dönmez spindil.
- Mengene tipi ölçüm yüzeyi.

#### Specifications:

- Non-rotating spindle.
- Jaw type measuring faces.

Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
609 - 25	0-25	0.001	±4µm	<b>376.92</b>
609 - 50	25-50	0.001	±4µm	<b>407.69</b>
609 - 75	50-75	0.001	±5µm	<b>438.46</b>
609 - 100	75-100	0.001	±5µm	<b>484.62</b>
609 - 125	100-125	0.001	±6µm	<b>526.92</b>
609 - 150	125-150	0.001	±6µm	<b>573.85</b>
609 - 175	150-175	0.001	±7µm	<b>624.62</b>
609 - 200	175-200	0.001	±7µm	<b>676.15</b>

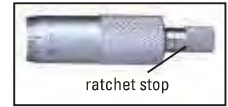


#### Dimensions

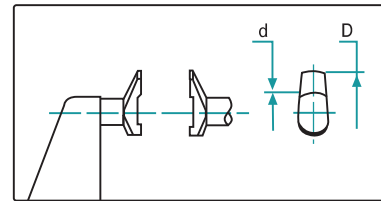
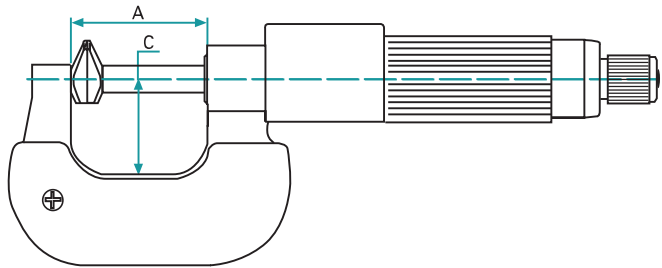
RANGE mm	Inch	A mm	C mm
0-25	0-1"	34.4	24
25-50	1-2"	59.4	32
50-75	2-3"	84.8	44.5
75-100	3-4"	110.2	57
100-125	4-5"	137.6	69.5
125-150	5-6"	163	82
150-175	6-7"	188.4	94.5
175-200	7-8"	213.8	107

## MENGENE TİPİ MİKROMETRELER

### Jaw Type Micrometers



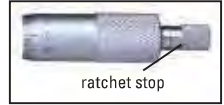
Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
611 - 25	0 - 25	0.01	±4μm	<b>226.15</b>
611 - 50	25 - 50	0.01	±4μm	<b>243.85</b>
611 - 75	50 - 75	0.01	±5μm	<b>261.54</b>
611 - 100	75 - 100	0.01	±5μm	<b>288.46</b>
611 - 125	100 - 125	0.01	±6μm	<b>314.62</b>
611 - 150	125 - 150	0.01	±6μm	<b>341.54</b>
611 - 175	150 - 175	0.01	±7μm	<b>371.54</b>
611 - 200	175 - 200	0.01	±7μm	<b>398.46</b>



Dimensions			
RANGE mm	Inch	A mm	C mm
0-25	0-1"	34.4	24
25-50	1-2"	59.4	32
50-75	2-3"	84.8	44.5
75-100	3-4"	110.2	57
100-125	4-5"	137.6	69.5
125-150	5-6"	163	82
150-175	6-7"	188.4	94.5
175-200	7-8"	213.8	107

# ELEKTRONİK BİÇAK MİKROMETRELER

## Electronic Blade Micrometers


**Özellikler:**

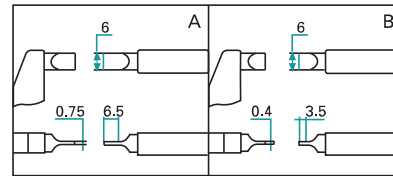
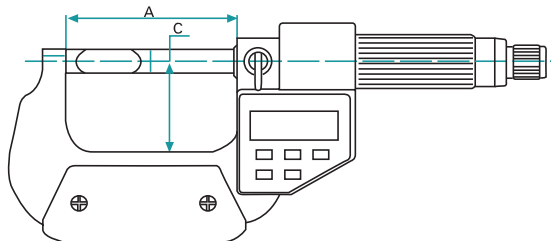
- Bıçak şeklindeki ölçüm yüzeyleri ve dönmez spindil

**Specifications:**

- Blade measuring faces and non-rotation spindle.

Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL A</b>				
613 - 25	0-25	0.001	±2µm	<b>384.62</b>
613 - 50	25-50	0.001	±2µm	<b>407.69</b>
613 - 75	50-75	0.001	±3µm	<b>430.77</b>
613 - 100	75-100	0.001	±3µm	<b>461.54</b>
613 - 125	100-125	0.001	±3µm	<b>484.62</b>
613 - 150	125-150	0.001	±3µm	<b>507.69</b>
613 - 175	150-175	0.001	±4µm	<b>530.77</b>

Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL B</b>				
614 - 25	0-25	0.001	±2µm	<b>423.85</b>
614 - 50	25-50	0.001	±2µm	<b>450.00</b>
614 - 75	50-75	0.001	±3µm	<b>476.15</b>
614 - 100	75-100	0.001	±3µm	<b>511.54</b>
614 - 125	100-125	0.001	±3µm	<b>539.23</b>
614 - 150	125-150	0.001	±3µm	<b>566.92</b>
614 - 175	150-175	0.001	±4µm	<b>595.38</b>


**Dimensions**

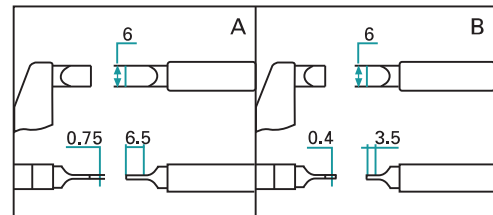
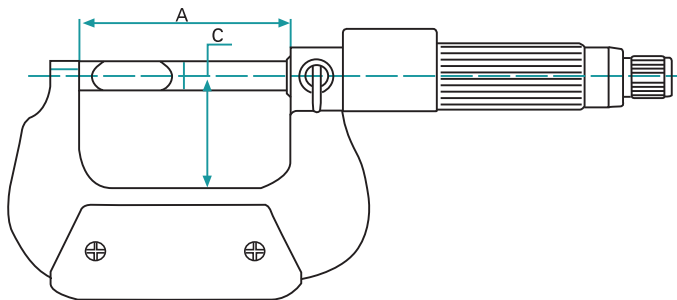
RANGE mm	Inch	A mm	C mm
0-25	0-1"	57	32
25-50	1-2"	82	44.5
50-75	2-3"	107	57
75-100	3-4"	132.6	69.5
100-125	4-5"	158	82
125-150	5-6"	183.4	94.5
150-175	6-7"	208.8	107

## BIÇAK MİKROMETRELER Blade Micrometers



Painted frame				Ratched stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL A</b>				
617 - 25	0-25	0.01	±4μm	<b>226.15</b>
617 - 50	25-50	0.01	±4μm	<b>243.85</b>
617 - 75	50-75	0.01	±5μm	<b>261.54</b>
617 - 100	75-100	0.01	±5μm	<b>288.46</b>
617 - 125	100-125	0.01	±6μm	<b>314.62</b>
617 - 150	125-150	0.01	±6μm	<b>341.54</b>
617 - 175	150-175	0.01	±7μm	<b>371.54</b>

Painted frame				Ratched stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL B</b>				
618 - 25	0-25	0.01	±4μm	<b>271.54</b>
618 - 50	25-50	0.01	±4μm	<b>293.08</b>
618 - 75	50-75	0.01	±5μm	<b>313.85</b>
618 - 100	75-100	0.01	±5μm	<b>346.15</b>
618 - 125	100-125	0.01	±6μm	<b>377.69</b>
618 - 150	125-150	0.01	±6μm	<b>409.23</b>
618 - 175	150-175	0.01	±7μm	<b>446.15</b>



Dimensions				
RANGE mm	Inch	A mm	C mm	
0-25	0-1"	57	32	
25-50	1-2"	82	44.5	
50-75	2-3"	107	57	
75-100	3-4"	132.6	69.5	
100-125	4-5"	158	82	
125-150	5-6"	183.4	94.5	
150-175	6-7"	208.8	107	

# ELEKTRONİK DİŞLİ ÇARK, DİŞ DİBİ ÇAPI MİKROMETRELERİ

## Electronic Gear Root Diameter Micrometers



### Özellikler:

- Ayarlanabilir örsüyle geniş kullanım alanı.
- Yüksek hassasiyetteki değiştirilebilir örsler, örsler değiştirilirken değer reset edilmesini gerektirmez.
- Elmas ölçüm yüzeyleri.
- Kriteri: DIN40050/IEC529
- Hafif ve yüksek sağlamlık için (200mm/8" alanın üzerinden) boru kombineli gövde.

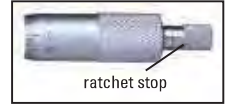
### Specifications:

- Wide measuring range with adjustable anvil
- High accuracy interchangeable anvils enable that reading does not have to be reset when changing anvils.
- Carbide-tipped measuring faces.
- Criterion: DIN40050/IEC529.
- Pipe combined frame for light weight and high rigidity (over 200mm/8" range).

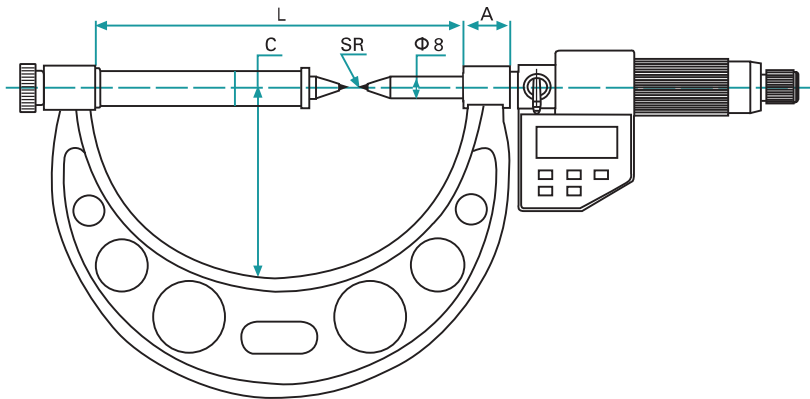
Painted frame IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
621 - 100	5-100	0.001	±3µm	461.54
621 - 200	100-200	0.001	±4µm	538.46
621 - 300	200-300	0.001	±5µm	607.69
621 - 400	300-400	0.001	±6µm	676.92
621 - 500	400-500	0.001	±7µm	746.15
621 - 600	500-600	0.001	±8µm	830.77
621 - 700	600-700	0.001	±8µm	923.08
521 - 800	700-800	0.001	±9µm	1007.69
621 - 900	800-900	0.001	±10µm	1100.00

## DİŞLİ ÇARK, DİŞ DİBİ ÇAPI MİKROMETRELERİ

### Gear Root Diameter Micrometers



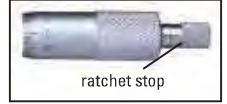
Ratchet stop				
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
623 - 100	5-100	0.01	±5μm	<b>247.69</b>
623 - 200	100-200	0.01	±7μm	<b>336.15</b>
623 - 300	200-300	0.01	±9μm	<b>416.15</b>
623 - 400	300-400	0.01	±11μm	<b>495.38</b>
623 - 500	400-500	0.01	±13μm	<b>575.38</b>
623 - 600	500-600	0.01	±15μm	<b>672.31</b>
623 - 700	600-700	0.01	±16μm	<b>778.46</b>
623 - 800	700-800	0.01	±18μm	<b>876.15</b>
623 - 900	800-900	0.01	±20μm	<b>982.31</b>



Dimensions					
RANGE mm	Inch	A mm	A mm	C mm	SR mm
5-100	0.2-4"	137	17	73	0.4
100-200	4-8"	237,5	17	130	0.5
200-300	8-12"	434	20	225	0.7
300-400	12-16"	534	20	275	0.7
400-500	16-20"	634	20	325	0.7
500-600	20-24"	734	20	375	0.7
600-700	24-28"	834	20	430	0.7
700-800	28-32"	934	20	480	0.7
800-900	32-36"	1034	20	530	0.7

## SAYISAL FREN DİSKİ MİKROMETRELERİ

### Digit Disc Brake Micrometers



#### Özellikler:

- Fren sistemi disklerindeki olukların derinliklerini ölçmek içindir.
- 60°'lik elmas ölçme yüzeyi.

#### Specifications:

- For measuring the depth of grooves on the disc of brake systems.
- Carbide measuring face with 60° point.

Painted frame

Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
625 - 33	7.6-33	0.01	±4µm	<b>104.62</b>
625 - 50	25-50	0.01	±4µm	<b>120.00</b>

## SAYISAL FREN DİSK MİKROMETRELERİ / µ Digit Disc Brake Micrometers



#### Özellikler:

- Ölçüm hassasiyeti: Kaunter göstergesi 0.001mm (Metrik); 0.0001"(Inch)
- Mikrometre başlığı: 0.01 mm (Metrik); 0.0001"(Inch)

#### Specifications:

- Resolution: Counter readout 0.001mm (Metric); 0.0001"(Inch)
- Micrometer head: 0.01 mm (Metric); 0.0001"(Inch)

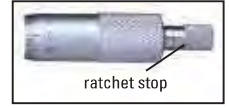
IP54

Ratched friction thimble

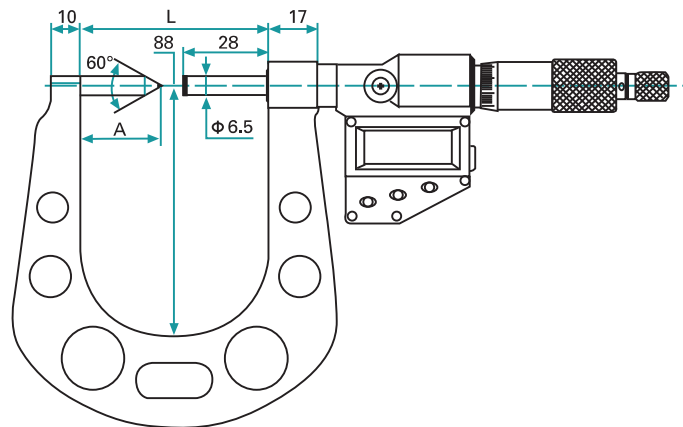
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
626 - 33	7.6-33	0.01	±4µm	<b>140.00</b>
626 - 50	25-50	0.01	±4µm	<b>157.69</b>

# FREN DİSKİ MİKROMETRELERİ

## Disc Brake Micrometers



Ratchet stop				
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
627 - 33	7.6-33	0.01	$\pm 4\mu\text{m}$	<b>77.69</b>
627 - 50	25-50	0.01	$\pm 4\mu\text{m}$	<b>104.62</b>

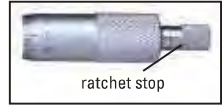


Dimensions			
RANGE mm	Inch	A mm	C mm
7.6-33	0.3-1.3"	29	64.5
25-50	1-2"	29	82



## SAC LEVHA MİKROMETRELERİ

### Sheet Metal Micrometers



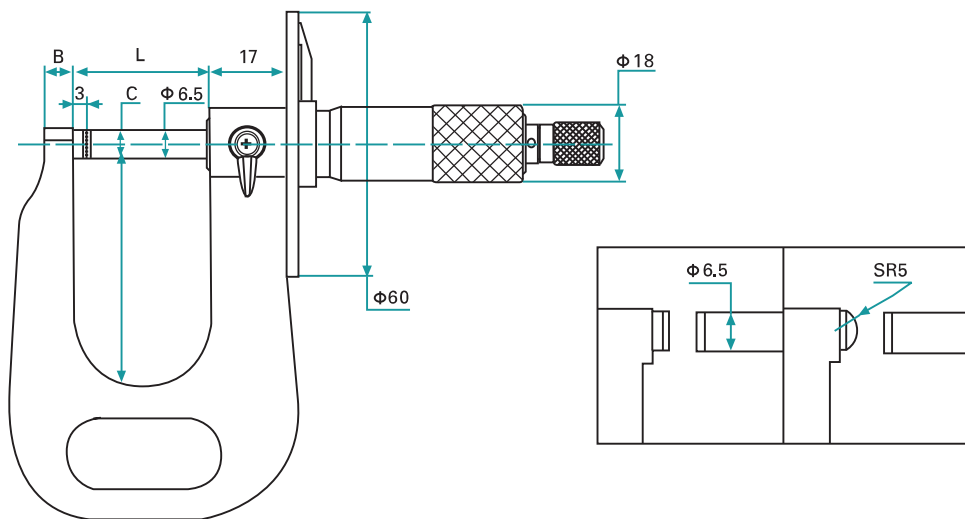
#### Özellikler:

- Levha saçların kalınlıklarının çabuk ve hızlı okunmasını temin için üzerine bir saat ilave edilmiştir.
- Elmas ölçüm yüzeyleri.

#### Specifications:

- A dial is attached to the sleeve for making easy and quick reading of sheet metal thickness.
- Carbide measuring faces.

				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>Flat measuring faces</b>				
628 - 15	0-15	0.01	±4µm	<b>117.69</b>
628 - 25	0-25	0.01	±4µm	<b>141.54</b>
628 - 50	0-50	0.01	±5µm	<b>513.85</b>
<b>Spherical measuring faces</b>				
629 - 15	0-15	0.01	±4µm	<b>117.69</b>
629 - 25	0-25	0.01	±4µm	<b>141.54</b>
629 - 50	0-50	0.01	±5µm	<b>513.85</b>



<b>Dimensions</b>				
RANGE mm	Inch	L mm	B mm	C mm
0-15	0-0.6"	22	8	50
0-25	0-1"	32	8	50
0-50	0-2"	57	12	100

## ELEKTRONİK DİSK MİKROMETRELERİ (Dönmez Spindilli)

### Electronic Disc Micrometers (Non -rotating spindle)



#### Özellikler:

- Dönmeyen spindil.
- Yuvarlak ölçüm yüzeyleri dişli çarkların dişlerini ve kağıt kalınlıklarını ölçmek içindir.

#### Specifications:

- Non-rotating spindle.
- Disk measuring faces for measuring gears and paper thickness.

Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
630 - 25	0-25	0.001	±4µm	376.92
630 - 50	25-50	0.001	±4µm	407.69
630 - 75	50-75	0.001	±5µm	438.46
630 - 100	75-100	0.001	±5µm	484.62
630 - 125	100-125	0.001	±6µm	526.92
630 - 150	125-150	0.001	±6µm	573.85
630 - 175	150-175	0.001	±7µm	624.62
630 - 200	175-200	0.001	±7µm	676.15



Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
636 - 25	0-25	0.001	±4µm	315.11
636 - 50	25-50	0.001	±4µm	345.89
636 - 75	50-75	0.001	±5µm	376.60
636 - 100	75-100	0.001	±5µm	422.71

## DİSK MİKROMETRELERİ

### Disc Micrometers

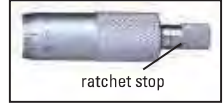


#### Özellikler:

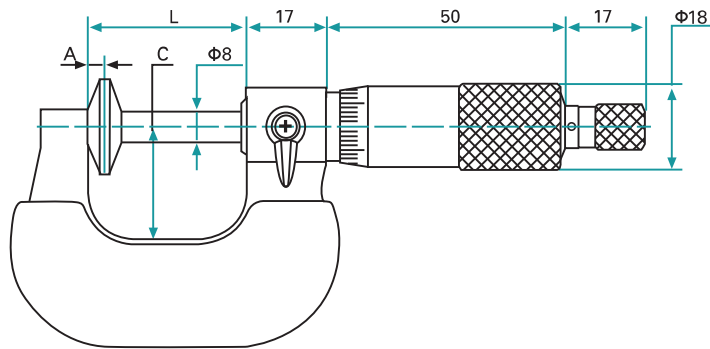
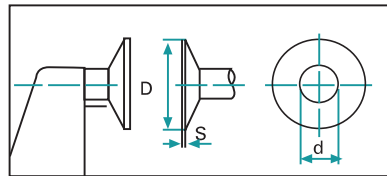
- Yuvarlak ölçüm yüzeyleri dişli çark dişlerini ve kağıt kalınlıklarını ölçmek içindir.

#### Specifications:

- Disk measuring faces for measuring gears and paper thickness.



Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
634 - 25	0-25	0.01	±4µm	<b>119.23</b>
634 - 50	25-50	0.01	±4µm	<b>137.69</b>
634 - 75	50-75	0.01	±5µm	<b>156.15</b>
634 - 100	75-100	0.01	±5µm	<b>184.62</b>
634 - 125	100-125	0.01	±6µm	<b>212.31</b>
634 - 150	125-150	0.01	±6µm	<b>230.77</b>
634 - 175	150-175	0.01	±7µm	<b>254.62</b>
634 - 200	175-200	0.01	±7µm	<b>278.46</b>

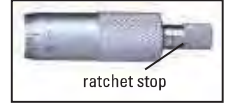


#### Dimensions

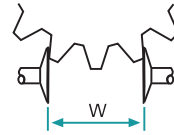
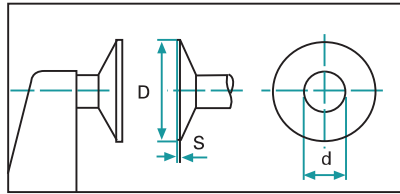
RANGE mm	Inch	A mm	C mm	L mm	D mm	S mm	d mm
0-25	0-1"	3.3	24	34	Ø20	0.7	Ø8
25-50	1-2"	3.3	32	59	Ø20	0.7	Ø8
50-75	2-3"	3.3	45	85	Ø20	0.7	Ø8
75-100	3-4"	3.3	57	110	Ø20	0.7	Ø8
100-125	4-5"	4.3	70	138	Ø30	0.9	Ø12
125-150	5-6"	4.3	82	163	Ø30	0.9	Ø12
150-175	6-7"	4.3	95	188	Ø30	0.9	Ø12
175-200	7-8"	4.3	107	214	Ø30	0.9	Ø12

## DİSK MİKROMETRELERİ (Dönmez Spindilli)

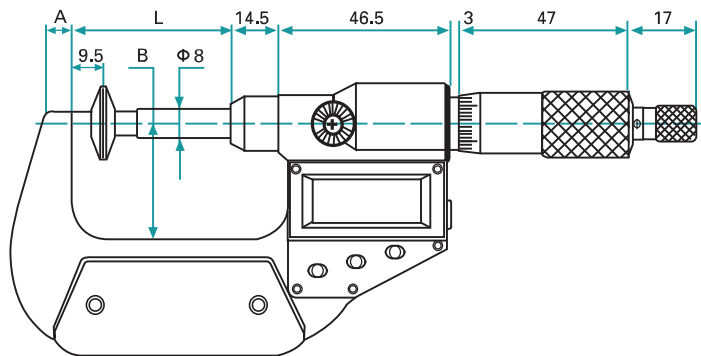
### Disk Micrometers (Non -rotating spindle)



Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
632 - 25	0-25	0.01	±4μm	<b>236.15</b>
632 - 50	25-50	0.01	±4μm	<b>254.62</b>
632 - 75	50-75	0.01	±5μm	<b>273.08</b>
632 - 100	75-100	0.01	±5μm	<b>291.54</b>
632 - 125	100-125	0.01	±6μm	<b>313.08</b>
632 - 150	125-150	0.01	±6μm	<b>335.38</b>
632 - 175	150-175	0.01	±7μm	
632 - 200	175-200	0.01	±7μm	<b>383.08</b>



W=Taban tanjant uzunluğu  
W=Root tangent length



Dimensions							
RANGE mm	Inch	A mm	B mm	L mm	D mm	S mm	d mm
0-25	0-1"	8	32	43	Ø20	0.7	Ø8
25-50	1-2"	8	44.5	68	Ø20	0.7	Ø8
50-75	2-3"	8	57	93	Ø20	0.7	Ø8
75-100	3-4"	10	70	118.5	Ø20	0.7	Ø8
100-125	4-5"	10	82	144	Ø30	0.9	Ø12
125-150	5-6"	12	94.5	169.5	Ø30	0.9	Ø12
150-175	6-7"	12	107	194.8	Ø30	0.9	Ø12
175-200	7-8"	12	120	220	Ø30	0.9	Ø12

# KOVAN MİKROMETRELERİ

## Hub Micrometers



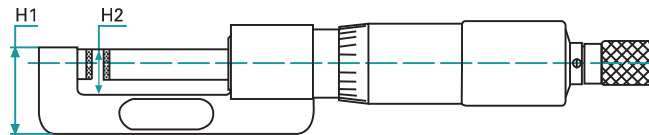
### Özellikler:

- Bir kovan içindeki üst omuzların ve poyra kalınlıklarının ölçümü.
- Elmas ölçüm yüzeyleri.

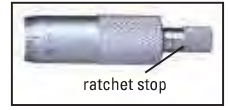
### Specifications:

- Measuring hub thickness and shoulders inside a bore
- Carbide measuring faces.

Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
637 - 25	0-25	0.01	±4µm	<b>105.38</b>
637 - 50	25-50	0.01	±4µm	<b>123.08</b>
637 - 75	50-75	0.01	±5µm	<b>140.77</b>
637 - 100	75-100	0.01	±5µm	<b>158.46</b>



Dimensions				
RANGE mm	Inch	H1 mm	H2 mm	
0-25	0-1"	18.7	10.2	
25-50	1-2"	21.2	10.2	
50-75	2-3"	21.2	10.2	
75-100	3-4"	21.2	10.2	



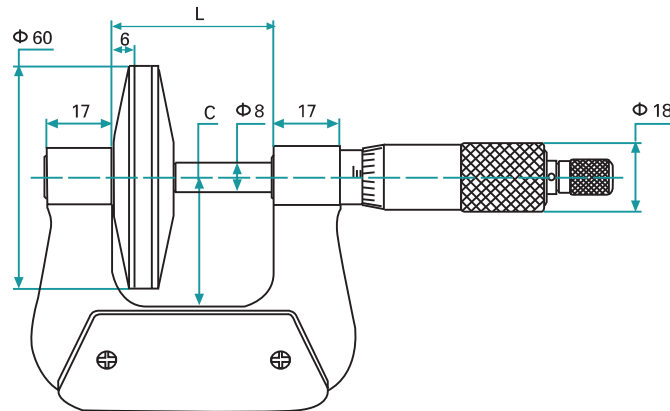
**Özellikler:**

- Dönmeyen spindil.
- Büyük yuvarlak ölçüm yüzeyleri.
- Disk çapı: 60mm.

**Specifications:**

- Non-rotating spindle.
- Large disk measuring faces.
- Disk diameter :Ø60mm.

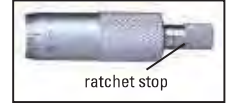
				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>Painted frame</b>				
638 - 25	0-25	0.01	±8µm	<b>228.46</b>
638 - 50	25-50	0.01	±8µm	<b>263.85</b>
638 - 75	50-75	0.01	±10µm	<b>299.23</b>
638 - 100	75-100	0.01	±10µm	<b>353.85</b>
<b>Chrome plated frame</b>				
639 - 25	0-25	0.01	±8µm	<b>263.08</b>
639 - 50	25-50	0.01	±8µm	<b>303.08</b>
639 - 75	50-75	0.01	±10µm	<b>343.85</b>
639 - 100	75-100	0.01	±10µm	<b>406.92</b>



<b>Dimensions</b>			
RANGE mm	Inch	L mm	C mm
0-25	0-1"	42	35
25-50	1-2"	67	38
50-75	2-3"	92.4	50
75-100	3-4"	117.6	62

# ELEKTRONİK DERİN BOĞAZLI MİKROMETRELER

## Electronic Deep Throat Micrometers


**Özellikler:**

- Plastik, kağıt ve metal levhaların kalınlıklarının ölçümü için derin boğazlı gövde.
- Elmas ölçüm yüzeyleri.
- Kriteri: DIN40050/IEC529.

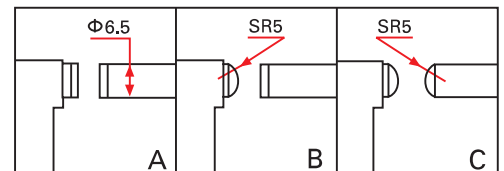
**Specifications:**

- Deep throat frame for measuring thickness of sheet metal, paper and sheet plastic.
- Carbide measuring faces.
- Criterion: DIN40050/IEC529.

 Painted frame **IP54**

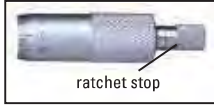
Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL A Throat depth: 50 mm.</b>				
640 - 25	0-25	0.001	±2µm	<b>352.31</b>
640 - 50	25-50	0.001	±2µm	<b>365.38</b>
<b>MODEL B Throat depth: 50 mm.</b>				
641 - 25	0-25	0.001	±2µm	<b>352.31</b>
641 - 50	25-50	0.001	±2µm	<b>365.38</b>
<b>MODEL C Throat depth: 50 mm.</b>				
642 - 25	0-25	0.001	±2µm	<b>352.31</b>
642 - 50	25-50	0.001	±2µm	<b>365.38</b>
<b>MODEL A Throat depth: 100 mm.</b>				
643 - 25	0-25	0.001	±3µm	<b>359.23</b>
643 - 50	25-50	0.001	±3µm	<b>373.08</b>
<b>MODEL B Throat depth: 100 mm.</b>				
644 - 25	0-25	0.001	±3µm	<b>359.23</b>
644 - 50	25-50	0.001	±3µm	<b>373.08</b>
<b>MODEL C Throat depth: 100 mm.</b>				
645 - 25	0-25	0.001	±3µm	<b>359.23</b>
645 - 50	25-50	0.001	±3µm	<b>373.08</b>
<b>MODEL A Throat depth: 150 mm.</b>				
646 - 25	0-25	0.001	±3µm	<b>382.31</b>
646 - 50	25-50	0.001	±3µm	<b>399.23</b>
<b>MODEL B Throat depth: 150 mm.</b>				
647 - 25	0-25	0.001	±3µm	<b>382.31</b>
647 - 50	25-50	0.001	±3µm	<b>399.23</b>
<b>MODEL C Throat depth: 150 mm.</b>				
648 - 25	0-25	0.001	±3µm	<b>382.31</b>
648 - 50	25-50	0.001	±3µm	<b>399.23</b>
<b>MODEL B Throat depth: 300 mm.</b>				
649 - 25	0-25	0.001	±4µm	<b>428.46</b>
649 - 50	25-50	0.001	±4µm	<b>445.38</b>
<b>MODEL C Throat depth: 300 mm.</b>				
650 - 25	0-25	0.001	±4µm	<b>428.46</b>
650 - 50	25-50	0.001	±4µm	<b>445.38</b>

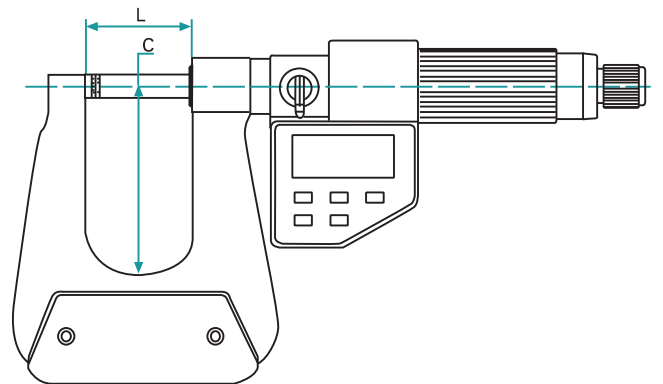
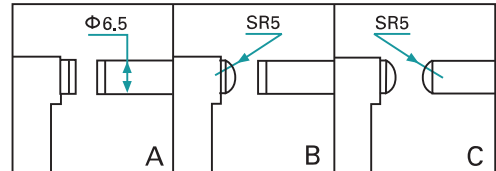


## DERİN BOĞAZLI MİKROMETRELER

### Deep Throat Micrometers



Ratchet stop				
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>MODEL A Throat depth: 50 mm.</b>				
669 - 25	0-25	0.01	±3µm	<b>113.08</b>
669 - 50	25-50	0.01	±3µm	<b>128.46</b>
<b>MODEL B Throat depth: 50 mm.</b>				
670 - 25	0-25	0.01	±3µm	<b>113.08</b>
670 - 50	25-50	0.01	±3µm	<b>128.46</b>
<b>MODEL C Throat depth: 50 mm.</b>				
671 - 25	0-25	0.01	±3µm	<b>113.08</b>
671 - 50	25-50	0.01	±3µm	<b>128.46</b>
<b>MODEL A Throat depth: 100 mm.</b>				
672 - 25	0-25	0.01	±3µm	<b>121.54</b>
672 - 50	25-50	0.01	±3µm	<b>136.92</b>
<b>MODEL B Throat depth: 100 mm.</b>				
673 - 25	0-25	0.01	±3µm	<b>121.54</b>
673 - 50	25-50	0.01	±3µm	<b>136.92</b>
<b>MODEL C Throat depth: 100 mm.</b>				
674 - 25	0-25	0.01	±3µm	<b>121.54</b>
674 - 50	25-50	0.01	±3µm	<b>136.92</b>
<b>MODEL A Throat depth: 150 mm.</b>				
675 - 25	0-25	0.01	±4µm	<b>149.23</b>
675 - 50	25-50	0.01	±4µm	<b>158.46</b>
<b>MODEL B Throat depth: 150 mm.</b>				
676 - 25	0-25	0.01	±4µm	<b>149.23</b>
676 - 50	25-50	0.01	±4µm	<b>158.46</b>
<b>MODEL C Throat depth: 150 mm.</b>				
677 - 25	0-25	0.01	±4µm	<b>149.23</b>
677 - 50	25-50	0.01	±4µm	<b>158.46</b>
<b>MODEL B Throat depth: 300 mm.</b>				
678 - 25	0-25	0.01	±5µm	<b>200.77</b>
678 - 50	25-50	0.01	±5µm	<b>220.00</b>
<b>MODEL C Throat depth: 300 mm.</b>				
679 - 25	0-25	0.01	±5µm	<b>200.77</b>
679 - 50	25-50	0.01	±5µm	<b>220.00</b>



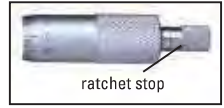
#### Dimensions

Throat depth mm	Range	L mm	C mm	ACCURACY	Range	L mm	C mm
50		32	55	±3µm		57	55
100	0-25mm/0-1"	32	105	±3µm	25-50mm/1-2"	57	105
150		32	155	±4µm		57	155
300		32	310	±5µm		57	310



# ELEKTRONİK ÇOK AMAÇLI MİKROMETRELER

## Electronic Uni -Micrometers



### Özellikler:

- Değiştirilebilir örslerle (düz ve çubuk örsler) boru kalınlıkları, omuzlar -kenar mesafesi-, perçin baş yüksekliği vs. ile örsü ve kelepçeyi çıkararak basamak yüksekliğini ölçmek.

### Specifications:

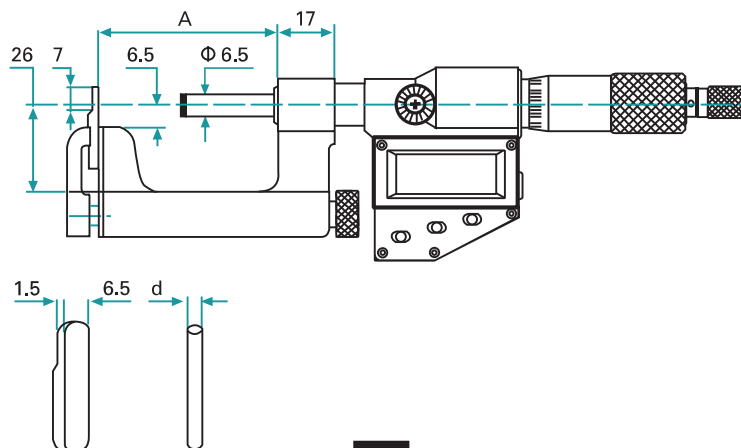
- Measuring tube thickness, shoulder-edge distance, rivet head height, etc. with interchangeable anvils (flat anvil and rod anvil) and measuring step height when removing anvils and clamp.

Chrome plated frame IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
680 - 25	0-25	0.001	$\pm 2\mu\text{m}$	<b>353.85</b>
680 - 50	25-50	0.001	$\pm 2\mu\text{m}$	<b>392.31</b>

## ÇOK AMAÇLI MİKROMETRELER / Uni -Micrometers

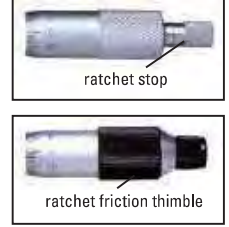
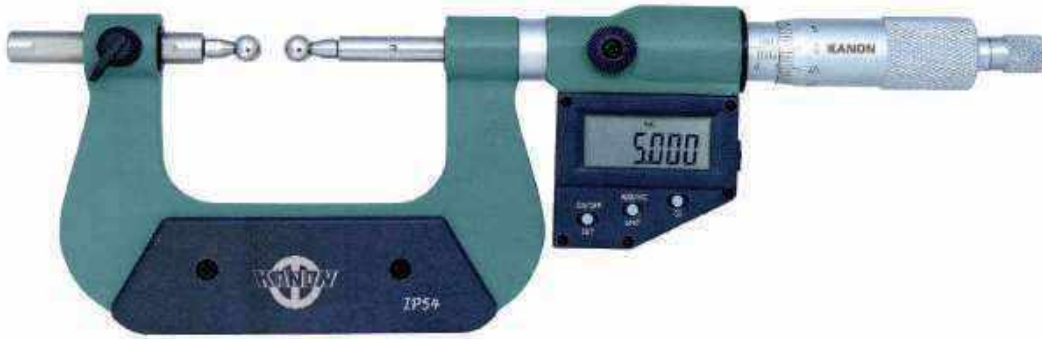


				Friction thimble
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
682 - 25	0-25	0.01	$\pm 4\mu\text{m}$	<b>194.62</b>
682 - 50	25-50	0.01	$\pm 4\mu\text{m}$	<b>226.15</b>



## ELEKTRONİK DİŞLİ ÇARK MİKROMETRELERİ

### Electronic Gear Micrometers



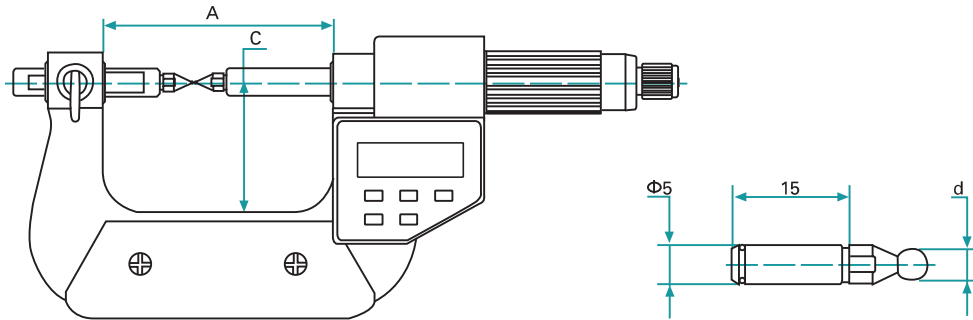
#### Özellikler:

- Çeşitli dişli çark modüllerini (0.6~3.5) ölçmek için bilye değiştirilebilir uçları mevcuttur.
- Kriteri: DIN40050/IEC529.

#### Specifications:

- Interchangeable ball tips for various gear modules (0.6~3.5) are available.
- Criterion: DIN40050/IEC529.

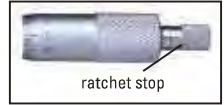
Painted frame IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
683 - 25	0-25	0.001	$\pm 2\mu\text{m}$	345.38
683 - 50	25-50	0.001	$\pm 2\mu\text{m}$	360.77
683 - 75	50-75	0.001	$\pm 3\mu\text{m}$	376.15
683 - 100	75-100	0.001	$\pm 3\mu\text{m}$	391.54
683 - 125	100-125	0.001	$\pm 3\mu\text{m}$	406.92
683 - 150	125-150	0.001	$\pm 3\mu\text{m}$	422.31
683 - 175	150-175	0.001	$\pm 4\mu\text{m}$	437.69



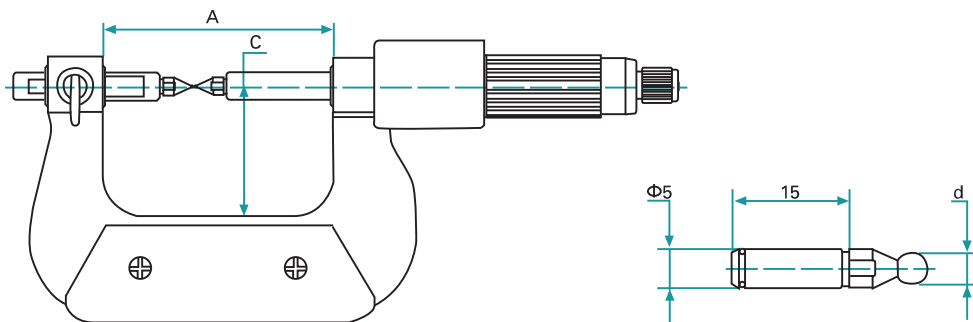
Dimensions			
RANGE mm	Inch	A mm	C mm
0-25	0-1"	67	38
25-50	1-2"	92.4	50
50-75	2-3"	117.6	62
75-100	3-4"	143	70
100-125	4-5"	168.2	82
125-150	5-6"	192	94.5
150-175	6-7"	217	107

## DİŞLİ ÇARK MİKROMETRELERİ

### Gear Micrometers

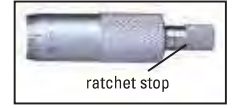


CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>Painted frame</b>				<b>Ratchet stop</b>
685 - 25	0-25	0.01	±4µm	<b>149.23</b>
685 - 50	25-50	0.01	±4µm	<b>166.92</b>
685 - 75	50-75	0.01	±5µm	<b>184.62</b>
685 - 100	75-100	0.01	±5µm	<b>202.31</b>
685 - 125	100-125	0.01	±6µm	<b>220.00</b>
685 - 150	125-150	0.01	±6µm	<b>237.69</b>
685 - 175	150-175	0.01	±7µm	<b>255.38</b>
<b>Chrome plated frame</b>				<b>Ratchet stop</b>
686 - 25	0-25	0.01	±4µm	
686 - 50	25-50	0.01	±4µm	
686 - 75	50-75	0.01	±5µm	
686 - 100	75-100	0.01	±5µm	
686 - 125	100-125	0.01	±6µm	
686 - 150	125-150	0.01	±6µm	
686 - 175	150-175	0.01	±7µm	



Dimensions				
RANGE mm	Inch	A mm	C mm	
0-25	0-1"	67	38	
25-50	1-2"	92.4	50	
50-75	2-3"	117.6	62	
75-100	3-4"	143	70	
100-125	4-5"	168.2	82	
125-150	5-6"	192	94.5	
150-175	6-7"	217	107	

## ELEKTRONİK GENİŞ ÖRSLÜ MİKROMETRELER Electronic Large Anvil Micrometers



**Özellikler:**

- Freze bıçağı dış genişliğini ölçmek için geniş örs.
- Kriteri: DIN40050/IEC529.

**Specifications:**

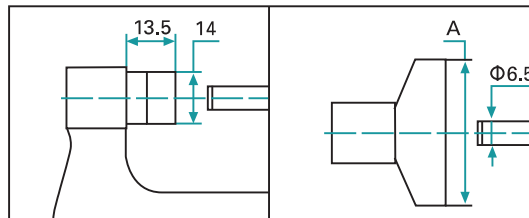
- Large anvil for measuring tooth width of side milling cutter.
- Criterion: DIN40050/IEC529.

Painted frame IP54		Ratchet stop		
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
687 - 25	0-25	0.001	±2µm	469.23
687 - 50	25-50	0.001	±2µm	538.46

## GENİŞ ÖRSLÜ MİKROMETRELER / Large Anvil Micrometers

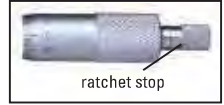


Painted frame		Ratchet stop		
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
689 - 25	0-25	0.01	±4µm	256.92
689 - 50	25-50	0.01	±4µm	256.92



## ELEKTRONİK VİDA DİŞİ MİKROMETRELERİ (Dönmez Spindil)

### Electronic Screw Thread Micrometers (Non -rotating spindle)



#### Özellikler:

- 60° veya 55° V -biçimli ve bıçak- kenarlı örsler (değiştirilebilir) isteğe bağlıdır.
- Kuruk örs boyutları : Ø5X15mm.

#### Specifications:

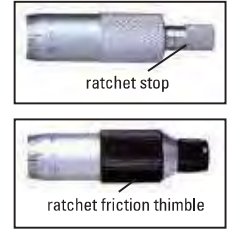
- 60° or 55°V-shaped and knife-edged anvils (interchangeable) are optional.
- Dimension of anvil-tail:Ø5X15mm.

Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
691 - 25	0-25	0.001	±2µm	<b>276.92</b>
691 - 50	25-50	0.001	±2µm	<b>298.46</b>
691 - 75	50-75	0.001	±2µm	<b>322.31</b>
691 - 100	75-100	0.001	±3µm	<b>350.77</b>
691 - 125	100-125	0.001	±3µm	<b>516.15</b>
691 - 150	125-150	0.001	±3µm	<b>561.54</b>
691 - 175	150-175	0.001	±3µm	<b>612.31</b>
691 - 200	175-200	0.001	±3µm	<b>667.69</b>

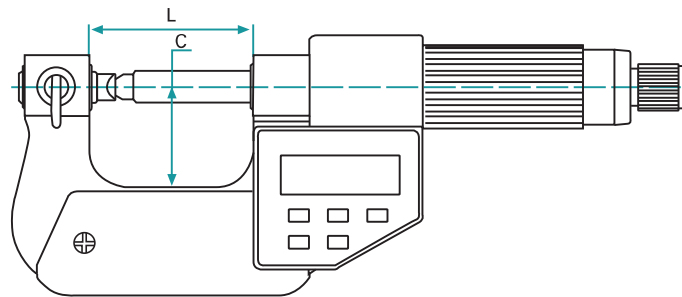


Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
692 - 25	0-25	0.001	±2µm	<b>215.20</b>
692 - 50	25-50	0.001	±2µm	<b>236.72</b>
692 - 75	50-75	0.001	±2µm	<b>260.55</b>
692 - 100	75-100	0.001	±3µm	<b>288.96</b>

## VİDA DIŞI MİKROMETRELERİ (Dönmez Spindil) Screw Thread Micrometers (Non -rotating spindle)



Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
693 - 25	0-25	0.01	±4µm	<b>145.38</b>
693 - 50	25-50	0.01	±4µm	<b>160.00</b>
693 - 75	50-75	0.01	±4µm	<b>186.92</b>
693 - 100	75-100	0.01	±5µm	<b>202.31</b>
693 - 125	100-125	0.01	±5µm	<b>232.31</b>
693 - 150	125-150	0.01	±5µm	<b>261.54</b>
693 - 175	150-175	0.01	±6µm	<b>288.46</b>
693 - 200	175-200	0.01	±6µm	<b>317.69</b>



Dimensions				
RANGE mm	Inch	L mm	C mm	
0-25	0-1"	42	26	
25-50	1-2"	67	38	
50-75	2-3"	92	50	
75-100	3-4"	117.6	62	
100-125	4-5"	143	70	
125-150	5-6"	168.2	82	
150-175	6-7"	192	94.5	
175-200	7-8"	217	107	

## ELEKTRONİK VİDA DİŞİ MİKROMETRELERİ

### Electronic Screw Thread Micrometers



#### Özellikler:

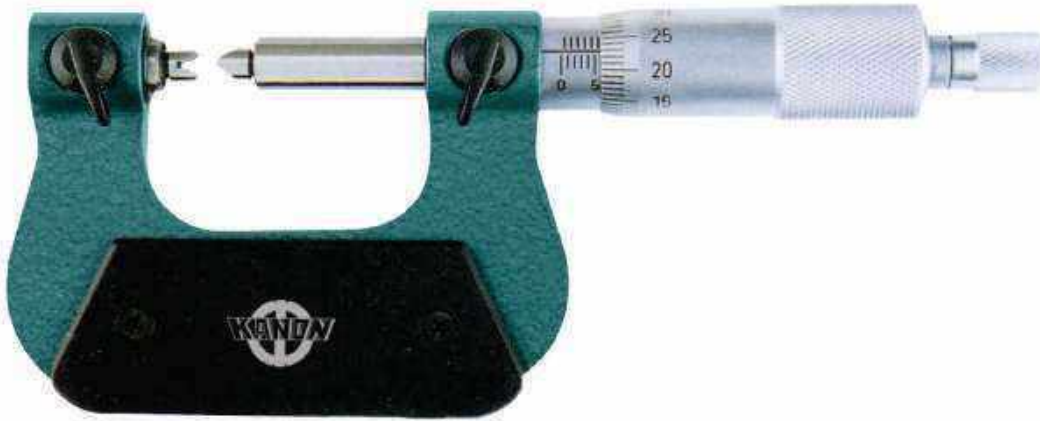
- 60° veya 55° V -biçimli ve bıçak- kenarlı örsler (değiştirilebilir) isteğe bağlıdır.
- Kuyruk örs boyutları : Ø5X15mm.
- Kriteri: DIN40050/IEC529.

#### Specifications:

- 60° or 55°V-shaped and knife-edged anvils (interchangeable) are optional.
- Dimension of anvil-tail:Ø5X15mm.
- Criterion: DIN40050/IEC529.

Painted frame IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
694 - 25	0-25	0.001	±2µm	411.54
694 - 50	25-50	0.001	±2µm	433.08
694 - 75	50-75	0.001	±2µm	430.00
694 - 100	75-100	0.001	±3µm	458.46
694 - 125	100-125	0.001	±3µm	596.92
694 - 150	125-150	0.001	±3µm	642.31
694 - 175	150-175	0.001	±3µm	666.15
694 - 200	175-200	0.001	±3µm	721.54

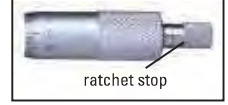
## VİDA DİŞİ MİKROMETRELERİ / Screw Thread Micrometers



Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
695 - 25	0-25	0.01	±4µm	145.38
695 - 50	25-50	0.01	±4µm	160.00
695 - 75	50-75	0.01	±5µm	186.92
695 - 100	75-100	0.01	±5µm	202.31
695 - 125	100-125	0.01	±6µm	232.31
695 - 150	125-150	0.01	±6µm	261.54
695 - 175	150-175	0.01	±7µm	288.46
695 - 200	175-200	0.01	±7µm	317.69

## ELEKTRONİK V- ÖRSLÜ MİKROMETRELER

### Electronic V-Anvil Micrometers



#### Özellikler:

- Tek sayılı oluğu olan, klavuzlar, raybalar ve freze bıçakları gibi, silindirik parçaların çapının ölçümü.
- Elmas ölçüm yüzeyleri.
- Kriteri: DIN40050/IEC529.

#### Specifications:

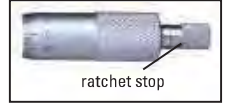
- Measuring diameter of cylinder with an odd number flutes, such as taps, reamers, end mills.
- Carbide measuring faces.
- Criterion: DIN40050/IEC529.

Painted frame IP54					Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD	
<b>3 Flutes</b>					
697 - 15	1-15	0.001	±2µm	<b>469.23</b>	
697 - 20	5-20	0.001	±2µm	<b>478.46</b>	
697 - 35	20-35	0.001	±3µm	<b>523.08</b>	
697 - 50	35-50	0.001	±3µm	<b>589.23</b>	
697 - 65	50-65	0.001	±3µm	<b>596.92</b>	
697 - 80	65-80	0.001	±3µm	<b>626.92</b>	
697 - 95	80-95	0.001	±4µm	<b>658.46</b>	
697 - 25	2.3-25	0.001	±2µm	<b>615.38</b>	
697 - 50	25-35	0.001	±3µm	<b>707.69</b>	
<b>5 Flutes</b>					
698 - 25	5-25	0.001	±2µm	<b>476.15</b>	
698 - 45	25-45	0.001	±3µm	<b>542.31</b>	
698 - 65	45-65	0.001	±3µm	<b>587.69</b>	
698 - 85	65-85	0.001	±4µm	<b>642.31</b>	
698 - 105	85-105	0.001	±4µm	<b>696.92</b>	
<b>7 Flutes</b>					
699 - 25	5-25	0.001	±2µm	<b>476.15</b>	
699 - 45	25-45	0.001	±3µm	<b>542.31</b>	
699 - 65	45-65	0.001	±3µm	<b>587.69</b>	
699 - 85	65-85	0.001	±4µm	<b>642.31</b>	

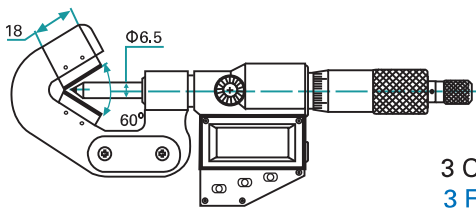


## V- ÖRSLÜ MİKROMETRELER

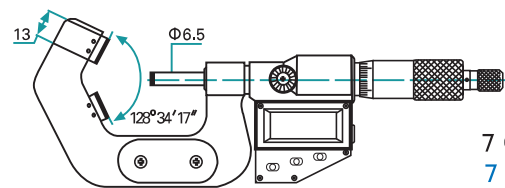
### V-Anvil Micrometers



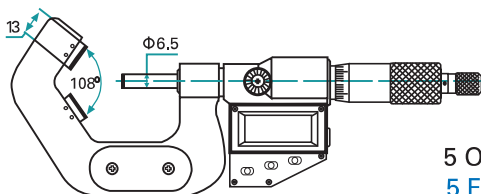
Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>3 Flutes</b>				
704 - 15	1-15	0.01	$\pm 4\mu\text{m}$	<b>267.69</b>
704 - 20	5-20	0.01	$\pm 4\mu\text{m}$	<b>278.46</b>
704 - 35	20-35	0.01	$\pm 5\mu\text{m}$	<b>332.31</b>
704 - 50	35-50	0.01	$\pm 5\mu\text{m}$	<b>410.00</b>
704 - 65	50-65	0.01	$\pm 6\mu\text{m}$	<b>439.23</b>
704 - 80	65-80	0.01	$\pm 6\mu\text{m}$	<b>475.38</b>
704 - 95	80-95	0.01	$\pm 7\mu\text{m}$	<b>512.31</b>
704 - 25	2.3-25	0.01	$\pm 4\mu\text{m}$	<b>267.69</b>
704 - 50	25-50	0.01	$\pm 5\mu\text{m}$	<b>278.46</b>
<b>5 Flutes</b>				
705 - 25	5-25	0.01	$\pm 4\mu\text{m}$	<b>276.15</b>
705 - 45	25-45	0.01	$\pm 5\mu\text{m}$	<b>355.38</b>
705 - 65	45-65	0.01	$\pm 6\mu\text{m}$	<b>410.00</b>
705 - 85	65-85	0.01	$\pm 7\mu\text{m}$	<b>475.38</b>
705 - 105	85-105	0.01	$\pm 8\mu\text{m}$	<b>540.77</b>
<b>7 Flutes</b>				
706 - 25	5-25	0.01	$\pm 4\mu\text{m}$	<b>276.15</b>
706 - 45	25-45	0.01	$\pm 5\mu\text{m}$	<b>355.38</b>
706 - 65	45-65	0.01	$\pm 6\mu\text{m}$	<b>410.00</b>
706 - 85	65-85	0.01	$\pm 7\mu\text{m}$	<b>475.38</b>



3 Oluklu  
3 Flutes



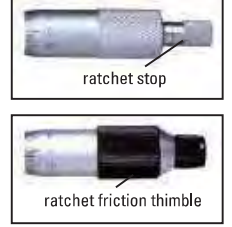
7 Oluklu  
7 Flutes



5 Oluklu  
5 Flutes

## ELEKTRONİK ÇOK AMAÇLI MİKROMETRELER

### Electronic Universal Micrometers



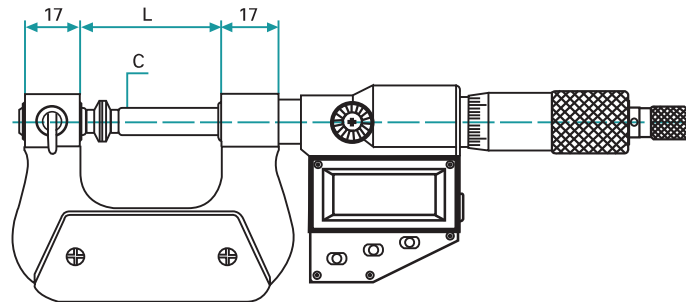
#### Özellikler:

- 7 çift değiştirilebilir örs (düz, bilye, kama, disk, bıçak, sivri ve bıçak, kenar) her türlü alanda kullanım için.
- Kriteri: DIN40050/IEC529.

#### Specifications:

- With 7 pairs of interchangeable anvils (flat, spherical, spline, disk, blade, point and knife-edge), for a wide range of applications.
- Criterion: DIN40050/IEC529.

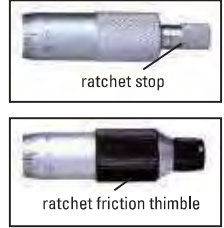
Painted frame IP54		Ratchet stop		
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
707 - 25	0-25	0.001	$\pm 2\mu\text{m}$	<b>530.77</b>
707 - 50	25-50	0.001	$\pm 2\mu\text{m}$	<b>546.15</b>
707 - 75	50-75	0.001	$\pm 3\mu\text{m}$	<b>561.54</b>
707 - 100	75-100	0.001	$\pm 3\mu\text{m}$	<b>584.62</b>
707 - 125	100-125	0.001	$\pm 3\mu\text{m}$	<b>611.54</b>
707 - 150	125-150	0.001	$\pm 3\mu\text{m}$	<b>638.46</b>
707 - 175	150-175	0.001	$\pm 4\mu\text{m}$	<b>667.69</b>
707 - 200	175-200	0.001	$\pm 4\mu\text{m}$	<b>696.92</b>



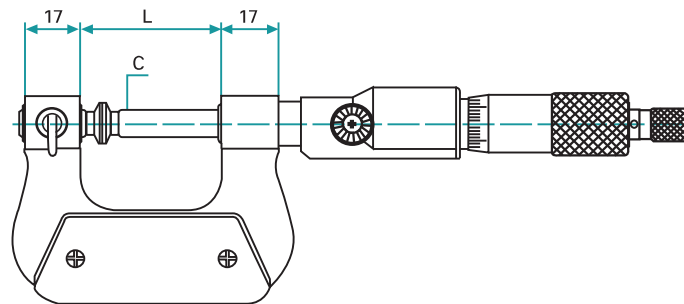
Dimensions			
RANGE mm	Inch	C mm	L mm
0 - 25	0-1"	26	42
25 - 50	1-2"	38	67
50 - 75	2-3"	50	92
75 - 100	3-4"	62	118
100 - 125	4-5"	70	143
125 - 150	5-6"	82	168
150 - 175	6-7"	95	192
175 - 200	7-8"	107	217

## ÇOK AMAÇLI MİKROMETRELER

### Universal Micrometers



Painted frame				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
709 - 25	0-25	0.01	$\pm 4\mu\text{m}$	<b>371.54</b>
709 - 50	25-50	0.01	$\pm 4\mu\text{m}$	<b>389.23</b>
709 - 75	50-75	0.01	$\pm 5\mu\text{m}$	<b>406.92</b>
709 - 100	75-100	0.01	$\pm 5\mu\text{m}$	<b>433.85</b>
709 - 125	100-125	0.01	$\pm 6\mu\text{m}$	<b>458.46</b>
709 - 150	125-150	0.01	$\pm 6\mu\text{m}$	<b>485.38</b>
709 - 175	150-175	0.01	$\pm 7\mu\text{m}$	<b>509.23</b>
709 - 200	175-200	0.01	$\pm 7\mu\text{m}$	<b>538.46</b>



Dimensions				
RANGE mm	Inch	C mm	L mm	
0 - 25	0-1"	26	42	
25 - 50	1-2"	38	67	
50 - 75	2-3"	50	92	
75 - 100	3-4"	62	118	
100 - 125	4-5"	70	143	
125 - 150	5-6"	82	168	
150 - 175	6-7"	95	192	
175 - 200	7-8"	107	217	

## ELEKTRONİK KUMPAS TİPİ MİKROMETRELER

### Electronic Caliper Type Micrometers



#### Özellikler:

- Bu dış mikrometre erişilmesi zor yerdeki parçaların ölçülmesine olanak sağlar.
- Elmas ölçüm uçları.

#### Specifications:

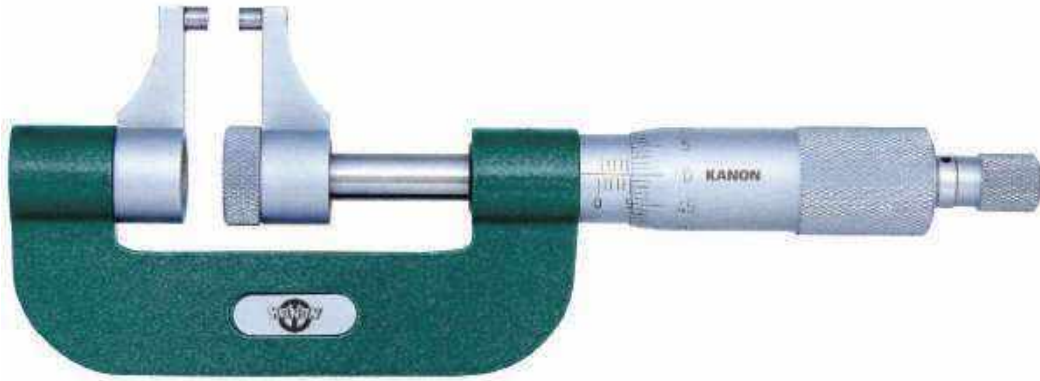
- This outside micrometers enables the measuring of hard-to-reach parts.
- Carbide measuring faces.

Painted frame

Ratchet stop and ratchet friction thimble

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
711 - 25	0-25	0.001	±5µm	291.54
711 - 50	25-50	0.001	±6µm	306.92
711 - 75	50-75	0.001	±7µm	322.31
711 - 100	75-100	0.001	±8µm	337.69

## KUMPAS TİPİ MİKROMETRELER / Caliper Type Micrometers



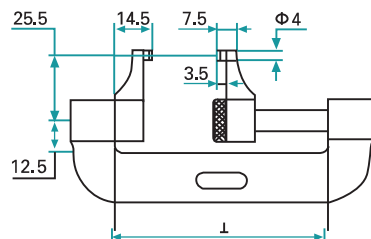
Painted frame

Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
712 - 25	0-25	0.01	±5µm	158.46
712 - 50	25-50	0.01	±6µm	176.15
712 - 75	50-75	0.01	±7µm	193.85
712 - 100	75-100	0.01	±8µm	211.54

#### Dimensions

RANGE mm	Inch	L mm
0 - 25	0-1"	56
25 - 50	1-2"	81
50 - 75	2-3"	106
75 - 100	3-4"	131



# ELEKTRONİK DERİNLİK MİKROMETRELERİ

## Electronic Depth Micrometers



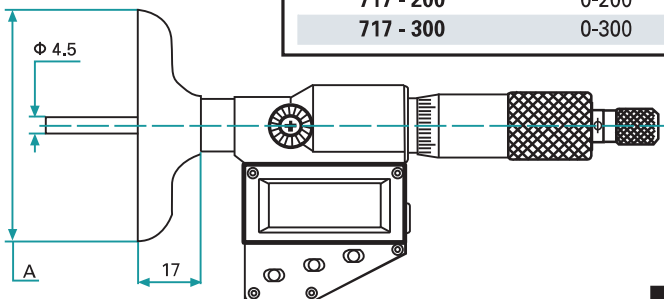
### Özellikler:

- Değiştirilebilir çubuklar geniş kullanım alanı sağlar.
- Yüksek hassas değiştirilebilir çubuklar, çubukları değiştirirken değerin reset edilmemesine olanak sağlar
- Ölçüm eklentileri:  $\pm(2+L/75)\mu\text{m}$  [ $\pm(0.001+0.0005 (L/3))''$ ], L=ölçüm boyu (Metrik/Inch).
- Kriteri: DIN40050/IEC529.

### Specifications:

- Interchangeable rods provide a wide measuring range
- High accuracy interchangeable rods enable that reading does not have to be reset when changing rods
- Measuring inserts:  $\pm(2+L/75)\mu\text{m}$  [ $\pm(0.001+0.0005 (L/3))''$ ], L=measuring length (Metric/Inch).
- Criterion: DIN40050/IEC529.

IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>Flat end A=63 mm</b>				
714 - 25	0-25	0.001	$\pm 3\mu\text{m}$	<b>330.77</b>
714 - 50	0-50	0.001	$\pm 3\mu\text{m}$	<b>346.15</b>
714 - 100	0-100	0.001	$\pm 3\mu\text{m}$	<b>376.92</b>
714 - 150	0-150	0.001	$\pm 3\mu\text{m}$	<b>407.69</b>
714 - 200	0-200	0.001	$\pm 3\mu\text{m}$	<b>438.46</b>
714 - 300	0-300	0.001	$\pm 3\mu\text{m}$	<b>514.62</b>
<b>Flat end A=101.5 mm</b>				
715 - 25	0-25	0.001	$\pm 3\mu\text{m}$	<b>330.77</b>
715 - 50	0-50	0.001	$\pm 3\mu\text{m}$	<b>346.15</b>
715 - 100	0-100	0.001	$\pm 3\mu\text{m}$	<b>376.92</b>
715 - 150	0-150	0.001	$\pm 3\mu\text{m}$	<b>407.69</b>
715 - 200	0-200	0.001	$\pm 3\mu\text{m}$	<b>438.46</b>
715 - 300	0-300	0.001	$\pm 3\mu\text{m}$	<b>514.62</b>
<b>Spherical end A=63 mm</b>				
716 - 25	0-25	0.001	$\pm 3\mu\text{m}$	<b>330.77</b>
716 - 50	0-50	0.001	$\pm 3\mu\text{m}$	<b>346.15</b>
716 - 100	0-100	0.001	$\pm 3\mu\text{m}$	<b>376.92</b>
716 - 150	0-150	0.001	$\pm 3\mu\text{m}$	<b>407.69</b>
716 - 200	0-200	0.001	$\pm 3\mu\text{m}$	<b>438.46</b>
716 - 300	0-300	0.001	$\pm 3\mu\text{m}$	<b>514.62</b>
<b>Spherical end A=101.5 mm</b>				
717 - 25	0-25	0.001	$\pm 3\mu\text{m}$	<b>330.77</b>
717 - 50	0-50	0.001	$\pm 3\mu\text{m}$	<b>346.15</b>
717 - 100	0-100	0.001	$\pm 3\mu\text{m}$	<b>376.92</b>
717 - 150	0-150	0.001	$\pm 3\mu\text{m}$	<b>407.69</b>
717 - 200	0-200	0.001	$\pm 3\mu\text{m}$	<b>438.46</b>
717 - 300	0-300	0.001	$\pm 3\mu\text{m}$	<b>514.62</b>



## SAYAÇLI DERİNLİK MİKROMETRELERİ

### Depth Micrometers With Counter



#### Özellikler:

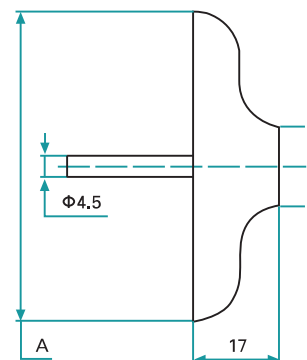
- Değiştirilebilir çubuklar geniş ölçüm alanı sağlar.
- Yüksek hassas değiştirilebilir çubuklar, çubukları değiştirirken değerin reset edilmemesine olanak sağlar.
- Ölçüm hassasiyeti:  
Mikrometre başlığı: 0.01mm(Metrik); 0,001"(Inch).  
Sayaç göstergesi: 0.001mm(Metrik); 0.0001"(Inch)

#### Specifications:

- Interchangeable rods provide a wide measuring range
- High accuracy interchangeable rods enable that reading does not have to be reset when changing rods.
- Resolution:  
Micrometer Heads: 0.01mm(Metric); 0,001"(Inch).  
Counter readout: 0.001mm(Metric); 0.0001"(Inch)

#### Ratchet friction thimble

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>Flat end A=63 mm</b>				
722 - 25	0-25	0.01	±4µm	<b>155.38</b>
722 - 50	0-50	0.01	±4µm	<b>170.77</b>
722 - 100	0-100	0.01	±5µm	<b>201.54</b>
722 - 150	0-150	0.01	±5µm	<b>240.00</b>
722 - 200	0-200	0.01	±6µm	<b>303.85</b>
722 - 300	0-300	0.01	±7µm	<b>395.38</b>
<b>Flat end A=101.5 mm</b>				
723 - 25	0-25	0.01	±4µm	<b>155.38</b>
723 - 50	0-50	0.01	±4µm	<b>170.77</b>
723 - 100	0-100	0.01	±5µm	<b>201.54</b>
723 - 150	0-150	0.01	±5µm	<b>240.00</b>
723 - 200	0-200	0.01	±6µm	<b>303.85</b>
723 - 300	0-300	0.01	±7µm	<b>395.38</b>
<b>Spherical end A=63 mm</b>				
724 - 25	0-25	0.01	±4µm	<b>155.38</b>
724 - 50	0-50	0.01	±4µm	<b>170.77</b>
724 - 100	0-100	0.01	±5µm	<b>201.54</b>
724 - 150	0-150	0.01	±5µm	<b>240.00</b>
724 - 200	0-200	0.01	±6µm	<b>303.85</b>
724 - 300	0-300	0.01	±7µm	<b>395.38</b>
<b>Spherical end A=101.5 mm</b>				
725 - 25	0-25	0.01	±4µm	<b>155.38</b>
725 - 50	0-50	0.01	±4µm	<b>170.77</b>
725 - 100	0-100	0.01	±5µm	<b>201.54</b>
725 - 150	0-150	0.01	±5µm	<b>240.00</b>
725 - 200	0-200	0.01	±6µm	<b>303.85</b>
725 - 300	0-300	0.01	±7µm	<b>395.38</b>

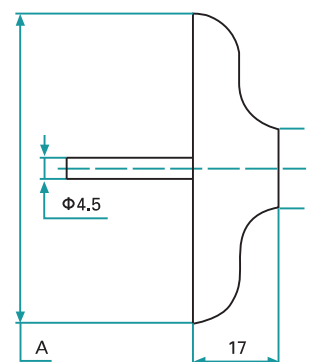


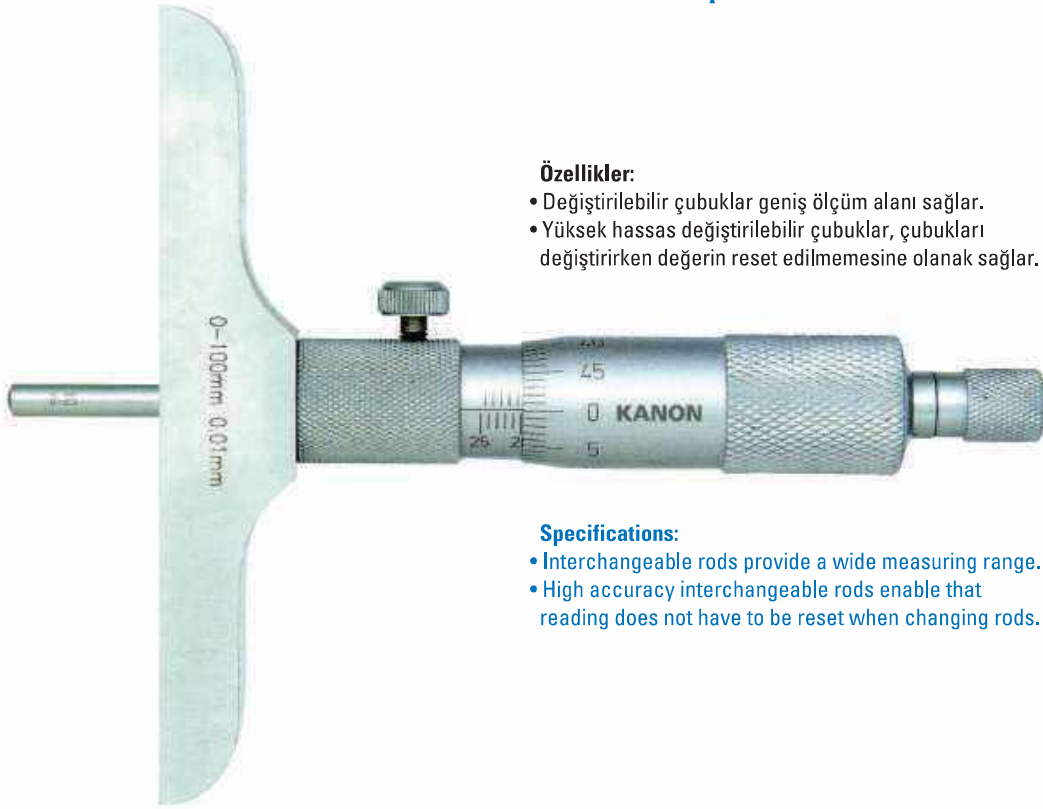
## SAYAÇLI DERİNLİK MİKROMETRELERİ

### Depth Micrometers With Counter



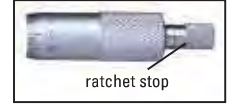
Ratchet stop				
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>Flat end A=63 mm</b>				
726 - 25	0-25	0.01	±4µm	<b>118.46</b>
726 - 50	0-50	0.01	±4µm	<b>133.85</b>
726 - 100	0-100	0.01	±5µm	<b>164.62</b>
726 - 150	0-150	0.01	±5µm	<b>203.08</b>
726 - 200	0-200	0.01	±6µm	<b>266.92</b>
726 - 300	0-300	0.01	±7µm	<b>358.46</b>
<b>Flat end A=101.5 mm</b>				
727 - 25	0-25	0.01	±4µm	<b>118.46</b>
727 - 50	0-50	0.01	±4µm	<b>133.85</b>
727 - 100	0-100	0.01	±5µm	<b>164.62</b>
727 - 150	0-150	0.01	±5µm	<b>203.08</b>
727 - 200	0-200	0.01	±6µm	<b>266.92</b>
727 - 300	0-300	0.01	±7µm	<b>358.46</b>
<b>Spherical end A=63 mm</b>				
728 - 25	0-25	0.01	±4µm	<b>118.46</b>
728 - 50	0-50	0.01	±4µm	<b>133.85</b>
728 - 100	0-100	0.01	±5µm	<b>164.62</b>
728 - 150	0-150	0.01	±5µm	<b>203.08</b>
728 - 200	0-200	0.01	±6µm	<b>266.92</b>
728 - 300	0-300	0.01	±7µm	<b>358.46</b>
<b>Spherical end A=101.5 mm</b>				
729 - 25	0-25	0.01	±4µm	<b>118.46</b>
729 - 50	0-50	0.01	±4µm	<b>133.85</b>
729 - 100	0-100	0.01	±5µm	<b>164.62</b>
729 - 150	0-150	0.01	±5µm	<b>203.08</b>
729 - 200	0-200	0.01	±6µm	<b>266.92</b>
729 - 300	0-300	0.01	±7µm	<b>358.46</b>





**Özellikler:**

- Değiştirilebilir çubuklar geniş ölçüm alanı sağlar.
- Yüksek hassas değiştirilebilir çubuklar, çubukları değiştirirken değerini reset edilmemesine olanak sağlar.

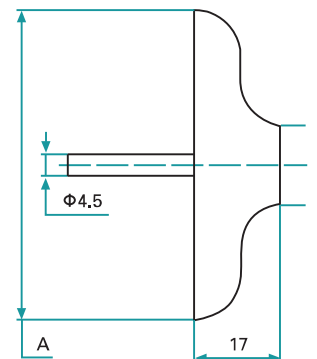


**Specifications:**

- Interchangeable rods provide a wide measuring range.
- High accuracy interchangeable rods enable that reading does not have to be reset when changing rods.

Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>Flat end A=63 mm</b>				
730 - 25	0-25	0.01	±4µm	84.62
730 - 50	0-50	0.01	±4µm	100.77
730 - 100	0-100	0.01	±5µm	128.46
730 - 150	0-150	0.01	±5µm	165.38
730 - 200	0-200	0.01	±6µm	239.23
730 - 300	0-300	0.01	±7µm	330.77
<b>Flat end A=101.5 mm</b>				
731 - 25	0-25	0.01	±4µm	84.62
731 - 50	0-50	0.01	±4µm	100.77
731 - 100	0-100	0.01	±5µm	128.46
731 - 150	0-150	0.01	±5µm	165.38
731 - 200	0-200	0.01	±6µm	239.23
731 - 300	0-300	0.01	±7µm	330.77
<b>Spherical end A=63 mm</b>				
732 - 25	0-25	0.01	±4µm	84.62
732 - 50	0-50	0.01	±4µm	100.77
732 - 100	0-100	0.01	±5µm	128.46
732 - 150	0-150	0.01	±5µm	165.38
732 - 200	0-200	0.01	±6µm	239.23
732 - 300	0-300	0.01	±7µm	330.77
<b>Spherical end A=101.5 mm</b>				
733 - 25	0-25	0.01	±4µm	84.62
733 - 50	0-50	0.01	±4µm	100.77
733 - 100	0-100	0.01	±5µm	128.46
733 - 150	0-150	0.01	±5µm	165.38
733 - 200	0-200	0.01	±6µm	239.23
733 - 300	0-300	0.01	±7µm	330.77





# DERİNLİK MİKROMETRELERİ

## Depth Micrometers


**Özellikler:**

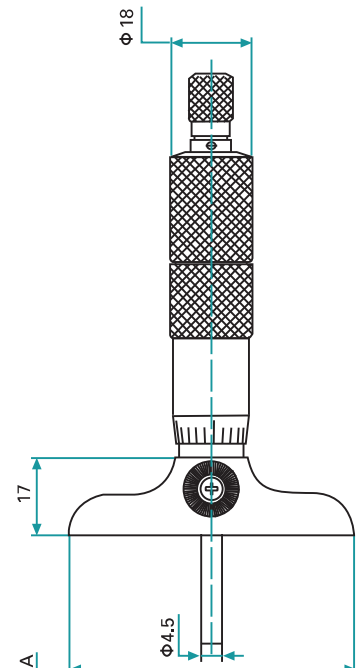
- Değiştirilebilir çubuklarla çalışma geniş ölçüm alanı sağlar.
- Yüksek hassas değiştirilebilir çubuklar, çubukları değiştirirken değerini reset edilmemesine olanak sağlar.
- Kilitleme kelepçesi.


**Specifications:**

- Run through interchangeable rods, provide a wide measuring range.
- High accuracy interchangeable rods enable that reading does not have to be reset when changing rods.
- Positive locking clamp.


**Ratchet stop**

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
<b>Flat end A=63 mm</b>				
734 - 25	0-25	0.01	±4µm	120.00
734 - 50	0-50	0.01	±4µm	143.08
734 - 100	0-100	0.01	±5µm	198.46
734 - 150	0-150	0.01	±5µm	238.46
734 - 200	0-200	0.01	±6µm	295.38
734 - 300	0-300	0.01	±7µm	386.92
<b>Flat end A=101.5 mm</b>				
735 - 25	0-25	0.01	±4µm	120.00
735 - 50	0-50	0.01	±4µm	143.08
735 - 100	0-100	0.01	±5µm	198.46
735 - 150	0-150	0.01	±5µm	238.46
735 - 200	0-200	0.01	±6µm	295.38
735 - 300	0-300	0.01	±7µm	386.92
<b>Spherical end A=63 mm</b>				
736 - 25	0-25	0.01	±4µm	120.00
736 - 50	0-50	0.01	±4µm	143.08
736 - 100	0-100	0.01	±5µm	198.46
736 - 150	0-150	0.01	±5µm	238.46
736 - 200	0-200	0.01	±6µm	295.38
736 - 300	0-300	0.01	±7µm	386.92
<b>Spherical end A=101.5 mm</b>				
737 - 25	0-25	0.01	±4µm	120.00
737 - 50	0-50	0.01	±4µm	143.08
737 - 100	0-100	0.01	±5µm	198.46
737 - 150	0-150	0.01	±5µm	238.46
737 - 200	0-200	0.01	±6µm	295.38
737 - 300	0-300	0.01	±7µm	386.92



## YİV-SET OLUK MİKROMETRELERİ (Ölçme Basınç Gerektirmez) Groove Micrometers (Without Measuring Force)

### Özellikler:

- Flanşlı ölçüm yüzeyleri genişlik, derinlik ve kovan içindeki olukların yerini tesbit içindir.
- 2 tip laserle yazılmış taksimatı vardır. İç ve dış ölçümler için.



738-50

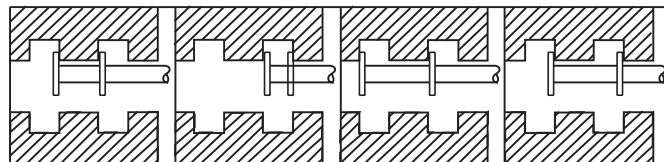
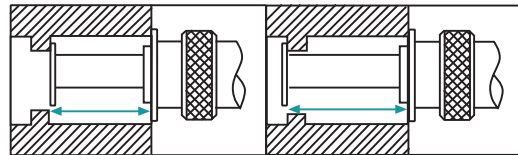
### Specifications:

- Flanged measuring faces for measuring width, depth, and location of grooves inside bores.
- Provided 2 types of laser engraved graduations for inside and outside measurement.



738-25

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
738 - 25 A	0-25	0.01	±1µm	441.54
738 - 25	0-25	0.01	±1µm	441.54
738 - 50	25-50	0.01	±1µm	512.31
738 - 75	50-75	0.01	±1µm	591.54
738 - 100	75-100	0.01	±1µm	680.00



## YİV-SET MİKROMETRELERİ (İki Yönlü Ölçme Basıncı)

### Groove Micrometers (Two -directional Measuring Force)

**Özellikler:**

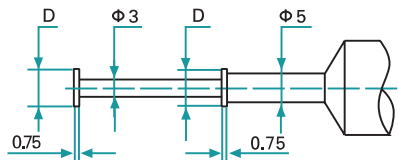
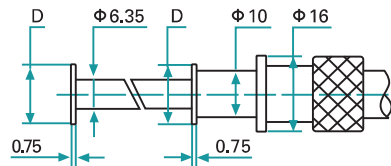
- Flaşlı ölçüm yüzeyleri genişlik, derinlik ve kovan içindeki olukların yerini tesbit içindir.
- 2 tip laserle yazılmış taksimatı vardır. İç ölçümler için.


**739-50**
**Specifications:**

- Flanged measuring faces for measuring width, depth, and location of grooves inside bores.
- Provided 2 types of laser engraved graduations for inside measurement.

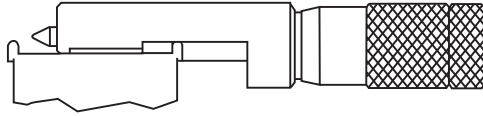

**739-25**

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
739 - 25 A	0-25	0.01	±1µm	<b>441.54</b>
739 - 25	0-25	0.01	±1µm	<b>441.54</b>
739 - 50	25-50	0.01	±1µm	<b>512.31</b>
739 - 75	50-75	0.01	±1µm	<b>591.54</b>
739 - 100	75-100	0.01	±1µm	<b>680.00</b>



## BİDON KENET MİKROMETRELERİ

### Can Seam Micrometers



#### Özellikler:

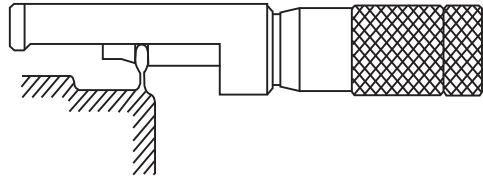
- Derzlerin genişlik, yükseklik ve derinliğini ölçer.

#### Specifications:

- Measures the width, height, and depth of can seams.

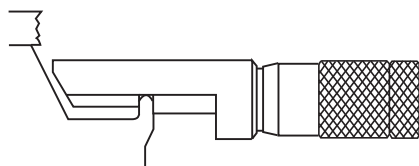
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
740 - 13	0-13	0.01	±4µm	106.15

Çelik kaplar için / For steel cans



CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
741 - 13	0-13	0.01	±4µm	106.15

Aleminyum kaplar için / For aluminum cans



CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
742 - 13	0-13	0.01	±4µm	106.15

Sprey kapları için / For sprayer cans

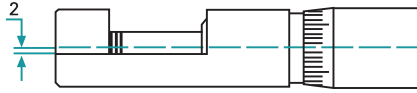
## TEL MİKROMETRELERİ Wire Micrometers


**Özellikler:**

- Küçük bilye ve tel çaplarının ölçümü için tasarlanmıştır.
- Elmas ölçüm yüzeyleri.

**Specifications:**

- Designed for measuring the diameter of wire or small ball.
- Carbide measuring faces.



CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
743 - 10	0-10	0.01	±4µm	106.15

## SICAK SAC LEVHA MİKROMETRELERİ / Hot Sheet Micrometers


**Özellikler:**

- Sıcak çekme sac levhaların kalınlığını ölçmek için tasarlanmıştır.
- Elmas ölçüm yüzeyleri.

**Specifications:**

- Designed for measuring thickness of hot rolling sheet metal.
- Carbide measuring faces.

Painted frame				
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
744 - 15	0-15	0.05	±5µm	396.92
744 - 30	15-30	0.05	±5µm	433.85
744 - 45	30-45	0.05	±5µm	553.85
744 - 60	45-60	0.05	±5µm	645.38
744 - 75	60-75	0.05	±5µm	718.46
744 - 90	75-90	0.05	±5µm	789.23
744 - 105	90-105	0.05	±5µm	863.08

## DEĞİŞTİRİLEBİLİR ÖRSLÜ İÇ MİKROMETRELER

### Inside Micrometers With Interchangeable Anvils

#### Özellikler:

- 60° veya 55°V biçimli ve koni biçimli örsler (değiştirilebilir) isteğe bağlıdır.
- Örs ebadı: Ø5x15mm.
- Sıfır kalibrasyonu için standart kumpas mastarı ile gelir.
- Çelik bilye uçlu örs (değiştirilebilir), dahili dişlerin bin pin ölçümü için olup isteğe bağlıdır.

#### Specifications:

- 60° or 55°V-shaped and cone-shaped anvils (interchangeable) are optional.
- Dimensions of anvil-tail: Ø5x15mm.
- Supplied with a standard caliper gage for zero setting.
- Steel-ball-tipped anvils (interchangeable) also are optional for measuring over-pin diameter of internal gears.



CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
754 - 100	75 - 100	0.01	±3µm	<b>156.15</b>
754 - 125	100 - 125	0.01	±3µm	<b>174.62</b>
754 - 150	125 - 150	0.01	±3µm	<b>193.08</b>
754 - 175	150 - 175	0.01	±3µm	<b>211.54</b>
754 - 200	175 - 200	0.01	±4µm	<b>230.00</b>
754 - 225	200 - 225	0.01	±4µm	<b>248.46</b>
754 - 250	225 - 250	0.01	±4µm	<b>266.92</b>
754 - 275	250 - 275	0.01	±4µm	<b>285.38</b>
754 - 300	275 - 300	0.01	±5µm	<b>303.85</b>

## İÇ MİKROMETRELER

### Inside Micrometers

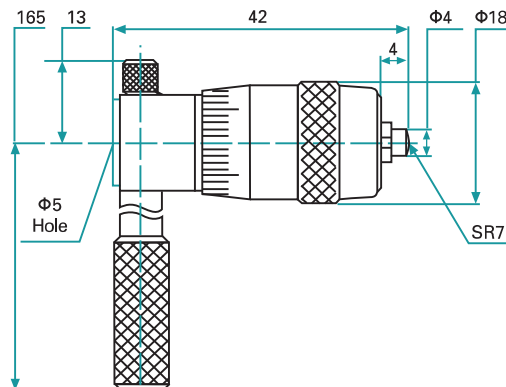

**Özellikler:**

- Değiştirilebilir uzatma çubukları geniş ölçüm alanı sağlar.
- Her bir değiştirilebilir çubuk, kolay kullanım için kapsamı işaretlenmiştir.
- Hassasiyeti: Metrik  $(6+L/50)\mu\text{m}$ ,  
Inch  $[0.0003+0.00005(L/2)]''$ .  
(L=azami ölçüm uzunluğu (mm) [Inch]).

**Specifications:**

- The interchangeable extension rods provide a wide measuring range.
- Each interchangeable rod is marked range, for easy operation.
- Accuracy: Metric  $(6+L/50)\mu\text{m}$ ,  
Inch  $[0.0003+0.00005(L/2)]''$ .  
(L=maximum measuring length(mm) [Inch]).

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
<b>25 mm. Micrometer head</b>			
755 - 32	25 - 32	0.01	<b>171.54</b>
755 - 50	25 - 50	0.01	<b>183.08</b>
<b>50 mm. Micrometer head</b>			
756 - 63	50 - 63	0.01	<b>180.00</b>
756 - 200	50 - 200	0.01	<b>152.31</b>
756 - 300	50 - 300	0.01	<b>162.31</b>
<b>200 mm. Micrometer head</b>			
757 - 225	200 - 225	0.01	<b>248.46</b>
757 - 500	200 - 500	0.01	<b>330.77</b>
757 - 1000	200 - 1000	0.01	<b>1106.15</b>



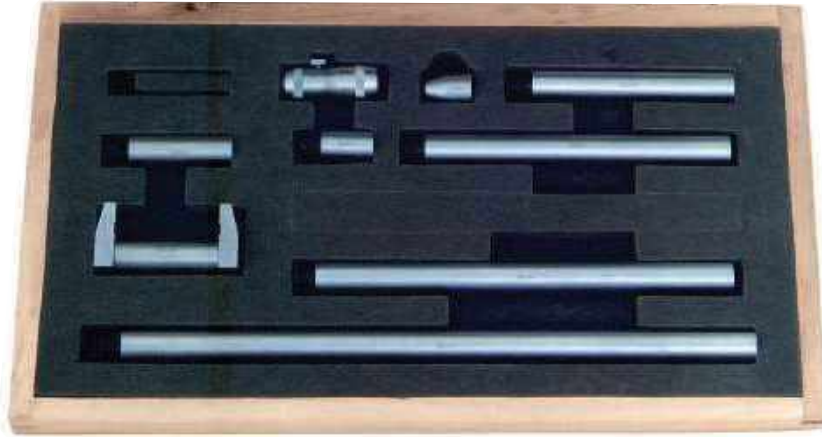
## İÇ MİKROMETRELER Inside Micrometers

### Özellikler:

- Kombine uzatma çubukları geniş ölçüm alan sağlar.
  - Sıfır ayarı için standart kalibre mastarı ile verilir.
  - Elmas ölçüm yüzeyleri.
  - Uzatma çubukları çapı:Ø15.5mm.
  - Hassasiyet: Metrik  $(3+n+L/50)\mu\text{m}$ ,  
Inch  $[0.00005(3+L/2)]''$ .
- (n=Çubuk adedi,  
L=azami ölçüm boyu (mm)[inch]).

### Specifications:

- The combining of extension rods provides a wide measuring range.
  - Supplied with a standard caliper gage for zero setting.
  - Carbide measuring faces.
  - Diameter of extension rods:Ø15.5mm.
  - Accuracy: Metric  $(3+n+L/50)\mu\text{m}$ ,  
Inch  $[0.00005(3+L/2)]''$ .
- (n=number of rod,  
L=maximum measuring length(mm)[inch]).



### Chrome plated rod

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
758 - 63	50 - 63	0.01	143.85
758 - 100	50 - 100	0.01	152.31
758 - 150	50 - 150	0.01	162.31
758 - 300	50 - 300	0.01	220.77
758 - 500	50 - 500	0.01	276.15
758 - 900	50 - 900	0.01	
758 - 1000	50 - 1000	0.01	919.23
758 - 1500	50 - 1500	0.01	1726.15
759 - 75	50 - 75	0.01	143.85
759 - 175	50 - 175	0.01	162.31
759 - 250	50 - 250	0.01	203.08
759 - 600	50 - 600	0.01	276.92



## İÇ MİKROMETRELER

### Inside Micrometers

**Özellikler:**

- Kombine uzatma çubukları geniş ölçüm alan sağlar.
- Sıfır ayarı için standart kalibre mastarı ile verilir.
- Uzatma çubukları çapı:Ø15.5mm.
- Hassasiyet: Metrik  $(3+n+L/50)\mu\text{m}$ ,  
Inch  $[0.00005(3+L/2)]''$ .  
(n=Çubuk adedi,  
L=azami ölçüm boyu (mm)[inch]).
- Elmas ölçüm yüzeyleri.

**Specifications:**

- The combining of extension rods provides a wide measuring range.
- Supplied with a standard caliper gage for zero setting.
- Diameter of extension rods:Ø15.5mm.
- Accuracy: Metric  $(3+n+L/50)\mu\text{m}$ ,  
Inch  $[0.00005(3+L/2)]''$ .  
(n=number of rod,  
L=maximum measuring length(mm)[inch]).
- Carbide measuring faces.


**Painted rod**

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
760 - 63	50 - 63	0.01	
760 - 100	50 - 100	0.01	
760 - 150	50 - 150	0.01	
760 - 300	50 - 300	0.01	
760 - 500	50 - 500	0.01	
760 - 900	50 - 900	0.01	
760 - 1000	50 - 1000	0.01	
760 - 1500	50 - 1500	0.01	
761 - 75	50 - 75	0.01	
761 - 175	50 - 175	0.01	
761 - 250	50 - 250	0.01	
761 - 600	50 - 600	0.01	

## İÇ MİKROMETRELER (Tek Çubuklu) Inside Micrometers (Single Rod)

### Özellikler:

- Elmas ölçüm yüzeyleri.
- Uzatma çubuklarının çapı: Ø16mm.

### Specifications:

- Carbide measuring faces.
- Diameter of extension rods: Ø16mm.



CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
762 - 75	50 - 75	0.01	0.005	<b>81.54</b>
762 - 100	75 - 100	0.01	0.005	<b>92.31</b>
762 - 125	100 - 125	0.01	0.006	<b>103.08</b>
762 - 150	125 - 150	0.01	0.006	<b>114.62</b>
762 - 175	150 - 175	0.01	0.007	<b>123.85</b>
762 - 200	175 - 200	0.01	0.007	<b>133.08</b>
762 - 225	200 - 225	0.01	0.008	<b>143.85</b>
762 - 250	225 - 250	0.01	0.008	<b>153.08</b>
762 - 275	250 - 275	0.01	0.009	<b>164.62</b>
762 - 300	275 - 300	0.01	0.009	<b>175.38</b>
762 - 325	300 - 325	0.01	0.009	<b>186.15</b>
762 - 350	325 - 350	0.01	0.009	<b>197.69</b>
762 - 375	350 - 375	0.01	0.010	<b>216.15</b>
762 - 400	375 - 400	0.01	0.010	<b>230.77</b>
762 - 425	400 - 425	0.01	0.010	<b>243.85</b>
762 - 450	425 - 450	0.01	0.010	<b>254.62</b>
762 - 475	450 - 475	0.01	0.011	<b>266.15</b>
762 - 500	475 - 500	0.01	0.011	<b>276.92</b>
762 - 525	500 - 525	0.01	0.011	<b>287.69</b>
762 - 550	525 - 550	0.01	0.011	<b>299.23</b>
762 - 575	550 - 575	0.01	0.011	<b>310.00</b>
762 - 600	575 - 600	0.01	0.012	<b>321.54</b>
762 - 625	600 - 625	0.01	0.012	<b>332.31</b>
762 - 650	625 - 650	0.01	0.012	<b>343.08</b>
762 - 675	650 - 675	0.01	0.013	<b>354.62</b>
762 - 700	675 - 700	0.01	0.013	<b>365.38</b>
762 - 725	700 - 725	0.01	0.013	<b>376.92</b>
762 - 750	725 - 750	0.01	0.014	<b>387.69</b>
762 - 775	750 - 775	0.01	0.014	<b>398.46</b>
762 - 800	775 - 800	0.01	0.014	<b>410.00</b>
762 - 825	800 - 825	0.01	0.015	<b>420.77</b>
762 - 850	825 - 850	0.01	0.015	<b>432.31</b>
762 - 875	850 - 875	0.01	0.015	<b>443.08</b>
762 - 900	875 - 900	0.01	0.016	<b>453.85</b>
762 - 925	900 - 925	0.01	0.016	<b>465.38</b>
762 - 950	925 - 950	0.01	0.016	<b>476.15</b>
762 - 975	950 - 975	0.01	0.017	<b>487.69</b>
762 - 1000	975 - 1000	0.01	0.017	<b>498.46</b>

## İÇ MİKROMETRELER

### Inside Micrometers

Mikrometre başlığı hareket mesafesi: 25 mm/1" / Travel of micrometer head: 25mm/1"



#### Özellikler:

- Kombine uzatma çubukları geniş ölçüm alan sağlar.
  - Elmas ölçüm yüzeyleri.
  - Uzatma çubukları çapı:Ø22mm.
  - Hassasiyet: Metrik  $(3+n+L/50)\mu\text{m}$ ,  
Inch  $[0.00005(3+n+L/2)]''$ .
- (n=Çubuk adedi,  
L=azami ölçüm boyu (mm)[inch]).

#### Specifications:

- The combining of extension rods provides a wide measuring range.
  - Carbide measuring faces.
  - Diameter of extension rods:Ø22mm.
  - Accuracy: Metric  $(3+n+L/50)\mu\text{m}$ ,  
Inch  $[0.00005(3+n+L/2)]''$ .
- (n=number of rod,  
L=maximum measuring Length(mm)[inch]).

#### Chrome-plated rods

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
763 - 125	100 - 125	0.01	368.46
763 - 500	100 - 500	0.01	552.31
763 - 900	100 - 900	0.01	792.31
763 - 1300	100 - 1300	0.01	1198.46
763 - 1700	100 - 1700	0.01	1883.08
763 - 2100	100 - 2100	0.01	2030.77



#### Painted rods

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
764 - 125	100 - 125	0.01	
764 - 500	100 - 500	0.01	
764 - 900	100 - 900	0.01	
764 - 1300	100 - 1300	0.01	
764 - 1700	100 - 1700	0.01	
764 - 2100	100 - 2100	0.01	

Mikrometre başlığı hareket mesafesi: 50 mm/2" / Travel of micrometer head: 50mm/2"



Chrome-plated rods

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
765 - 1050	1000 - 1050	0.01	<b>845.38</b>
765 - 2000	1000 - 2000	0.01	<b>1690.77</b>
765 - 3000	1000 - 3000	0.01	<b>3383.85</b>

**Özellikler:**

- Kombine uzatma çubukları geniş ölçüm alan sağlar.
  - Elmas ölçüm yüzeyleri.
  - Uzatma çubukları çapı:Ø22mm.
  - Hassasiyet: Metrik  $(7+n+L/50)\mu\text{m}$ ,  
Inch  $[0.00005(7+n+L/2)]''$ .
- (n=Çubuk adedi,  
L=azami ölçüm boyu (mm)[inch]).

**Specifications:**

- The combining of extension rods provides a wide measuring range.
  - Carbide measuring faces.
  - Diameter of extension rods:Ø28mm.
  - Accuracy: Metric  $(7+n+L/50)\mu\text{m}$ ,  
Inch  $[0.00005(7+n+L/2)]''$ .
- (n=number of rod,  
L=maximum measuring Length(mm)[inch]).



Painted rods

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
766 - 1050	1000 - 1050	0.01	
766 - 2000	1000 - 2000	0.01	
766 - 3000	1000 - 3000	0.01	

## İÇ MİKROMETRELER

### Inside Micrometers



#### Özellikler:

- Kombine uzatma çubukları geniş ölçüm alan sağlar.
- Sıfır ayarı için standart kalibre mastarı ile verilir.
- Uzatma çubukları çapı:Ø22mm.
- Hassasiyet: Metrik  $(3+n+L/50)\mu\text{m}$ ,  
Inch  $[0.00005(3+n+L/2)]''$ .  
(n=Çubuk adedi,  
L=azami ölçüm boyu (mm)[inch]).

#### Specifications:

- The combining of extension rods provides a wide measuring range.
- Supplied with a standard caliper gage for zero setting.
- Diameter of extension rods:Ø22mm.
- Accuracy: Metric  $(3+n+L/50)\mu\text{m}$ ,  
Inch  $[0.00005(3+n+L/2)]''$ .  
(n=number of rod,  
L=maximum measuring Length(mm)[inch]).

#### Chrome-plated rods

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
767 - 175	150 - 175	0.01	<b>414.62</b>
767 - 1400	150 - 1400	0.01	<b>1726.15</b>
767 - 1500	150 - 1500	0.01	
767 - 2000	150 - 2000	0.01	<b>1975.38</b>
767 - 2100	150 - 2100	0.01	<b>2030.77</b>

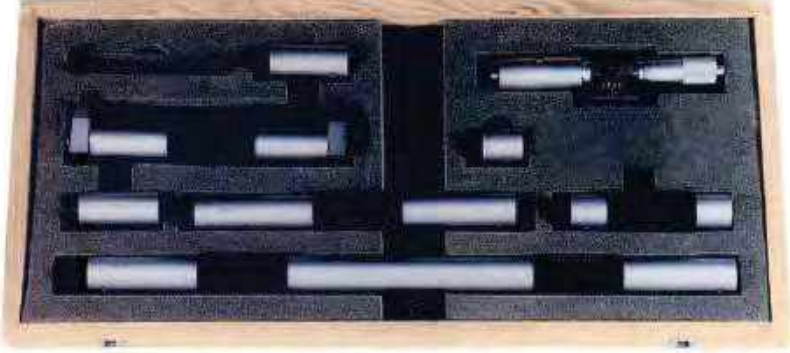


#### Painted rods

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
768 - 175	150 - 175	0.01	
768 - 1400	150 - 1400	0.01	
768 - 1500	150 - 1500	0.01	
768 - 2000	150 - 2000	0.01	
768 - 2100	150 - 2100	0.01	

## SAYISAL İÇ MİKROMETRELER

### Digit Inside Micrometers



#### Özellikler:

- Kombine uzatma çubukları geniş ölçüm alan sağlar.
  - Elmas ölçüm yüzeyleri
  - Gösterge değeri: 0.01mm(Metrik); 0.001"(Inch)
  - Uzatma çubukları çapı:Ø22mm.
  - Hassasiyet: Metrik  $(3+n+L/50)\mu\text{m}$ ,  
Inch  $[0.00005(3+n+L/2)]"$ .
- (n=Çubuk adedi,  
L=azami ölçüm boyu (mm)[inch]).

#### Specifications:

- The combining of extension rods provides a wide measuring range.
  - Carbide measuring faces.
  - Counter readout: 0.01mm(Metric); 0.001"(Inch).
  - Diameter of extension rods:Ø22mm.
  - Accuracy: Metric  $(3+n+L/50)\mu\text{m}$ ,  
Inch  $[0.00005(3+n+L/2)]"$ .
- (n=number of rod,  
L=maximum measuring Length(mm)[inch]).

#### Chrome-plated rods

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
769 - 175	150 - 175	0.01	<b>442.31</b>
769 - 1400	150 - 1000	0.01	<b>1163.08</b>
769 - 1500	150 - 1500	0.01	<b>1800.00</b>
769 - 2000	150 - 2000	0.01	<b>2058.46</b>



#### Painted rods

CODE	RANGE mm	RESOLUTION	Birim Fiyatı USD
770 - 175	150 - 175	0.01	
770 - 1000	150 - 1000	0.01	
770 - 1400	150 - 1400	0.01	
770 - 1500	150 - 1500	0.01	
770 - 2000	150 - 2000	0.01	

## ELEKTRONİK İÇ MİKROMETRELER (Kumpas Tipi)

### Electronic Inside Micrometers (Caliper Type)

**Özellikler:**

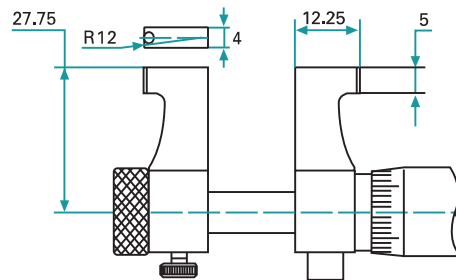
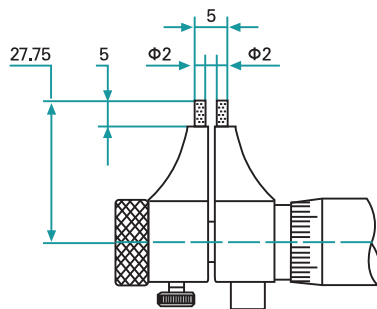
- 5-30mm/0.2-1.2" 25-50mm/1-2" mikrometre çeşitli iç çapların ölçümü için.
- Bir ayar halkası ile teviz edilmiştir.

**Specifications:**

- 5-30mm/0.2-1.2", 25-50mm/1-2" Micrometers furnished with setting ring.
- For measuring various inside dimensions.


**Carbide measuring faces**

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
771 - 30	5 - 30	0.001	±3µm	<b>346.15</b>
771 - 50	25 - 50	0.001	±3µm	<b>361.54</b>
771 - 75	50 - 75	0.001	±4µm	<b>376.92</b>
771 - 100	75 - 100	0.001	±4µm	<b>392.31</b>
771 - 125	100 - 125	0.001	±5µm	<b>407.69</b>
771 - 150	125 - 150	0.001	±5µm	<b>430.77</b>
771 - 175	150 - 175	0.001	±5µm	<b>453.85</b>
771 - 200	175 - 200	0.001	±5µm	<b>484.62</b>



## SAYAÇLI İÇ MİKROMETRELER (Kumpas Tipi)

### Inside Micrometers With Counter (Caliper Type)



#### Özellikler:

- 5-30mm/0.2-1.2" 25-50mm/1-2" mikrometre çeşitli iç çapların ölçümü için.
- Bir ayar halkası ile teçiz edilmiştir.
- Ölçüm hassasiyeti: 0.01mm/0.001", Gösterge değeri: 0.001mm/0.0001".

#### Specifications:

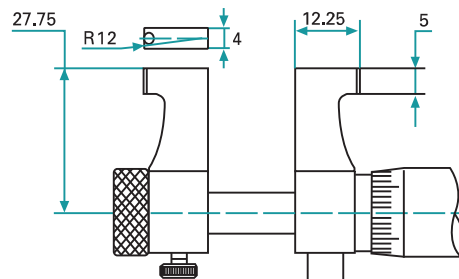
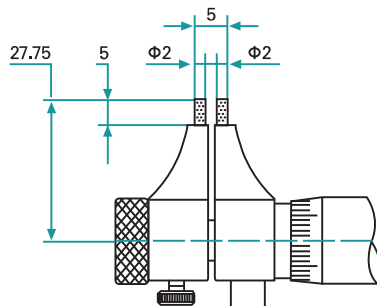
- 5-30mm/0.2-1.2", 25-50mm/1-2" Micrometers furnished with setting ring.
- For measuring various inside dimensions.
- Resolution: 0.01mm/0.001", Counter readout: 0.001mm/0.0001".

#### Carbide measuring faces

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
773 - 30	5 - 30	0.01	±5µm	183.85
773 - 50	25 - 50	0.01	±6µm	193.08
773 - 75	50 - 75	0.01	±7µm	208.46
773 - 100	75 - 100	0.01	±8µm	220.77
773 - 125	100 - 125	0.01	±9µm	239.23
773 - 150	125 - 150	0.01	±9µm	257.69
773 - 175	150 - 175	0.01	±10µm	276.15
773 - 200	175 - 200	0.01	±10µm	294.62

#### Stainless steel measuring faces

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
774 - 30	5 - 30	0.01	±5µm	183.85
774 - 50	25 - 50	0.01	±6µm	193.08
774 - 75	50 - 75	0.01	±7µm	208.46
774 - 100	75 - 100	0.01	±8µm	220.77
774 - 125	100 - 125	0.01	±9µm	239.23
774 - 150	125 - 150	0.01	±9µm	257.69
774 - 175	150 - 175	0.01	±10µm	276.15
774 - 200	175 - 200	0.01	±10µm	294.62





AE-19

## SAYAÇLI İÇ MİKROMETRELER (Kumpas Tipi)

### Inside Micrometers With Counter (Caliper Type)


**Özellikler:**

- 5-30mm/0.2-1.2" 25-5mm/1-2" mikrometre çeşitli iç çapların ölçümü için.
- Bir ayar halkası ile teçiz edilmiştir.

**Specifications:**

- 5-30mm/0.2-1.2", 25-50mm/1-2" Micrometers furnished with setting ring.
- For measuring various inside dimensions.

**Carbide measuring faces**

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
775 - 30	5 - 30	0.01	±5µm	<b>146.92</b>
775 - 50	25 - 50	0.01	±6µm	<b>156.15</b>
775 - 75	50 - 75	0.01	±7µm	<b>171.54</b>
775 - 100	75 - 100	0.01	±8µm	<b>183.85</b>
775 - 125	100 - 125	0.01	±9µm	<b>202.31</b>
775 - 150	125 - 150	0.01	±9µm	<b>220.77</b>
775 - 175	150 - 175	0.01	±10µm	<b>239.23</b>
775 - 200	175 - 200	0.01	±10µm	<b>257.69</b>

**Stainless steel measuring faces**

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
776 - 30	5 - 30	0.01	±5µm	<b>146.92</b>
776 - 50	25 - 50	0.01	±6µm	<b>156.15</b>
776 - 75	50 - 75	0.01	±7µm	<b>171.54</b>
776 - 100	75 - 100	0.01	±8µm	<b>183.85</b>
776 - 125	100 - 125	0.01	±9µm	<b>202.31</b>
776 - 150	125 - 150	0.01	±9µm	<b>220.77</b>
776 - 175	150 - 175	0.01	±10µm	<b>239.23</b>
776 - 200	175 - 200	0.01	±10µm	<b>257.69</b>

## İÇ MİKROMETRELER (Kumpas Tipi) Inside Micrometers (Caliper Type)

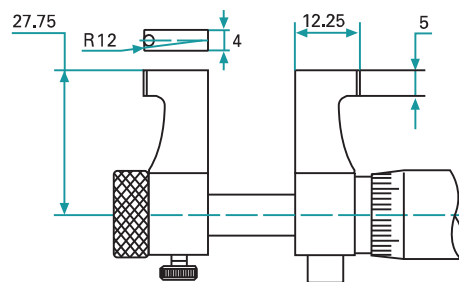
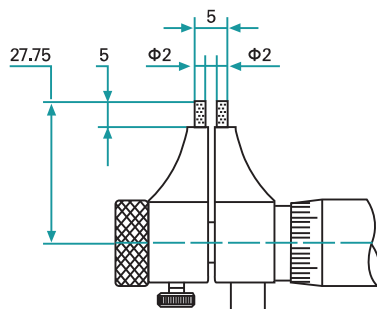


### Carbide measuring faces

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
777 - 30	5 - 30	0.01	±5µm	110.00
777 - 50	25 - 50	0.01	±6µm	119.23
777 - 75	50 - 75	0.01	±7µm	137.69
777 - 100	75 - 100	0.01	±8µm	156.15
777 - 125	100 - 125	0.01	±9µm	175.38
777 - 150	125 - 150	0.01	±9µm	193.85
777 - 175	150 - 175	0.01	±10µm	212.31
777 - 200	175 - 200	0.01	±10µm	230.77

### Stainless steel measuring faces

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
778 - 30	5 - 30	0.01	±5µm	110.00
778 - 50	25 - 50	0.01	±6µm	119.23
778 - 75	50 - 75	0.01	±7µm	137.69
778 - 100	75 - 100	0.01	±8µm	156.15
778 - 125	100 - 125	0.01	±9µm	175.38
778 - 150	125 - 150	0.01	±9µm	193.85
778 - 175	150 - 175	0.01	±10µm	212.31
778 - 200	175 - 200	0.01	±10µm	230.77



## İÇ MİKROMETRELER (iki Taraflı Kumpas Gibidir)

### Inside Micrometers (Two Sides of Calipers)



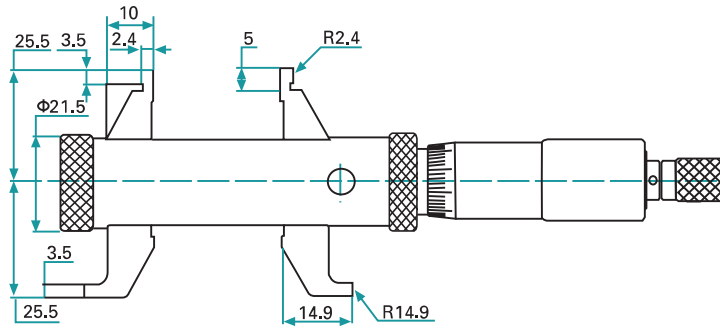
#### Özellikler:

- Her türlü iç çap ölçümü için
- İki taraflı kumpas ile geniş ölçüm alanı.
- Her iki yönde rahat okuma için çift yönlü taksimat.
- Ayar ringi ile birlikte verilir (Ø30MM/1.2").

#### Specifications:

- For all kinds of inside measurement.
- Large measuring range with two sides of calipers.
- Bidirectional graduation for easy reading in both directions.
- Supplied with setting ring (Ø30mm/1.2").

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
	5 - 30	0.01	±6µm	
779 - 55	30 - 55	0.01	±6µm	220.77



## ÜÇ NOKTA BASMALI İÇ MİKROMETRELER Three -Point Internal Micrometers

### Özellikler:

- Uzatma çubuksuz alanı 2-6mm.
- Kör kovanların dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin deliklerde ölçülebilir.
- Çok dayanıklıdır zira temas yüzeyleri elmaştır.
- Alan 2-6mm/0.08-0.28": İki temas noktalı modeller çok küçük delikler içindir.

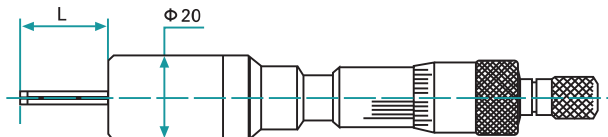
### Specifications:

- Range 2-6mm without extension rods.
- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points.
- Range 2-6mm/0.08-0.28": Two Point Models for Very Small Holes.

Range:2-6mm/0.08-0.28"



Ratchet stop				
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
780 - 2	2-2.5	0.001	±4µm	745.38
780 - 3	2.5-3	0.001	±4µm	745.38
780 - 4	3-4	0.001	±4µm	635.38
780 - 5	4-5	0.001	±4µm	635.38
780 - 6	5-6	0.001	±4µm	635.38



Dimensions		
RANGE mm	Setting rings mm $\Phi$	L1 mm
2-2.5	2.5	12.5
2.5-3	2.5	12.5
3-4	4	22.5
4-5	5	22.5
5-6	6	22.5

## ÜÇ NOKTA BASMALI İÇ MİKROMETRELER

### Three -Point Internal Micrometers

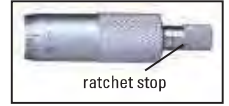
**Özellikler:**

- Kör kovanların dibine yakın yerden ölçü alınabilir ve uzun çubuğu ile derin delikler de ölçülebilir.
- Ölçüm yüzeyleri elmas olduğundan çok dayanıklıdır.
- Hududu 6-12mm/0.275-0.5"

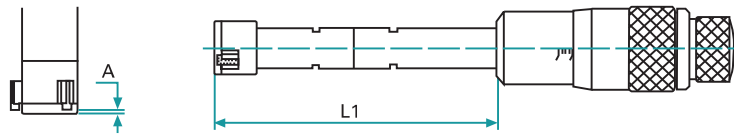
**Specifications:**

- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points.
- Range 6-12mm/0.275-0.5":  
Without carbide-tipped contact points.

Range:6-12mm/0.275-0.5"



Ratchet stop				
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
781 - 8	6-8	0.001	±4µm	490.00
781 - 10	8-10	0.001	±4µm	490.00
781 - 12	10-12	0.001	±4µm	490.00



Dimensions				
RANGE mm	Setting rings mm $\Phi$	L1 mm	A mm	Extension rods mm
6-8	6	53.5	0.5	100
8-10	8	53.5	0.5	100
10-12	10	53.5	0.5	100

## ÜÇ NOKTA BASMALI İÇ MİKROMETRELER Three -Point Internal Micrometers

### Özellikler:

- Kör kovanların dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin delikler de ölçülebilir.
- Çok dayanıklıdır zira temas yüzeyleri elmadır.
- 100mm/4" dahilinde: ayar ringleri ile verilir. 12mm/0.5" üzeri Titanium kaplı örs isteğe bağlıdır.

### Specifications:

- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points.
- Within 100mm/4": Supplied with setting rings.
- Over 12mm/0.5": Titanium-plated anvils optional.

Range:6-100mm/0.275-4"



Chrome-plated surface

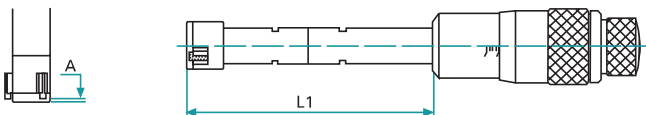
Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
782 - 8	6 - 8	0.001	±4µm	445.38
782 - 10	8 - 10	0.001	±4µm	445.38
782 - 12	10 - 12	0.001	±4µm	445.38
782 - 16	12 - 16	0.005	±4µm	330.00
782 - 20	16 - 20	0.005	±4µm	330.00
782 - 25	20 - 25	0.005	±4µm	465.38
782 - 30	25 - 30	0.005	±4µm	465.38
782 - 40	30 - 40	0.005	±4µm	512.31
782 - 50	40 - 50	0.005	±5µm	593.85
782 - 63	50 - 63	0.005	±5µm	626.92
782 - 75	62 - 75	0.005	±5µm	673.08
782 - 88	75 - 88	0.005	±5µm	703.85
782 - 100	87 - 100	0.005	±5µm	737.69



### Dimensions

RANGE mm	Setting rings mm φ	L1 mm	A mm	Extension rods mm
6 - 8	6	54.5	1.5	100
8 - 10	8	54.5	1.5	100
10 - 12	10	54.5	1.5	100
12 - 16	16	80	0.5	150
16 - 20	16	80	0.5	150
20 - 25	25	90	0.5	150
25 - 30	25	90	0.5	150
30 - 40	40	97	0.5	150
40 - 50	40	97	0.5	150
50 - 63	62	114	0.5	150
62 - 75	62	114	0.5	150
75 - 88	87	114	0.5	150
87 - 100	87	114	0.5	150



# ÜÇ NOKTA BASMALI İÇ MİKROMETRELER

## Three -Point Internal Micrometers

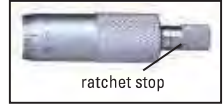
**Özellikler:**

- 100mm/4" üzeri, ayar ringi isteğe bağlıdır.
- 100mm/4" üzeri ölçüm yüzeyleri değiştirilebilir.
- Alüminyum gövde.
- Antikatot oksitlenme

**Specifications:**

- Over 100mm/4": Setting rings optional.
- Over 100mm/4": Measuring heads are interchangeable.
- Aluminium body.
- Anticathode oxidation

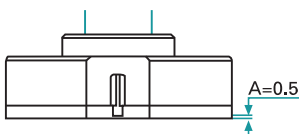
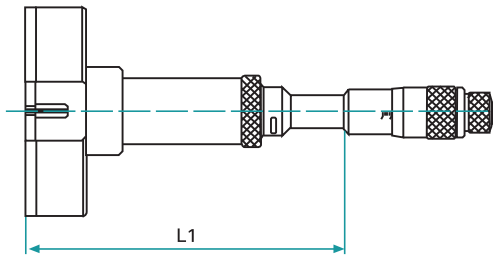
**Range:30-300mm/1.2-12"**



Painted surface

Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
784 - 40	30 - 40	0.005	±4µm	493.85
784 - 50	40 - 50	0.005	±5µm	572.31
784 - 63	50 - 63	0.005	±5µm	606.92
784 - 75	62 - 75	0.005	±5µm	650.77
784 - 88	75 - 88	0.005	±5µm	680.00
784 - 100	87 - 100	0.005	±5µm	712.31
784 - 125	100 - 125	0.005	±5µm	815.38
784 - 150	125 - 150	0.005	±5µm	976.92
784 - 175	150 - 175	0.005	±5µm	1170.77
784 - 200	175 - 200	0.005	±5µm	1413.85
784 - 225	200 - 225	0.005	±7µm	1688.46
784 - 250	225 - 250	0.005	±7µm	2027.69
784 - 275	250 - 275	0.005	±7µm	2438.46
784 - 300	275 - 300	0.005	±7µm	2923.08


**Dimensions**

RANGE mm	Setting rings mm φ	L1 mm	Extension rods mm
30 - 40	40	97	150
40 - 50	40	97	150
50 - 63	62	114	150
62 - 75	62	114	150
75 - 88	87	114	150
87 - 100	87	114	150
100 - 125	112.5	145	150
125 - 150	137.5	145	150
150 - 175	162.5	145	150
175 - 200	187.5	145	150
200 - 225	212.5	145	150
225 - 250	237.5	145	150
250 - 275	262.5	145	150
275 - 300	287.5	145	150

## ÜÇ NOKTA BASMALI İÇ MİKROMETRE TAKIMLARI

### Three -Point Internal Micrometers Sets

#### Özellikler:

- Mesafesi 2-6 mm, uzatma çubuksuz.
- Kör kovanların dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin delikler de ölçülebilir.
- Çok dayanıklıdır zira temas yüzeyleri elmaştır.
- Alan 2-6mm/0.08-0.28": iki temas noktalı modeller çok küçük delikler içindir.

#### Specifications:

- Range 2-6mm without extension rods.
- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points.
- Range 2-6mm/0.08-0.28": Two Point Models for Very Small Holes.

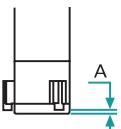
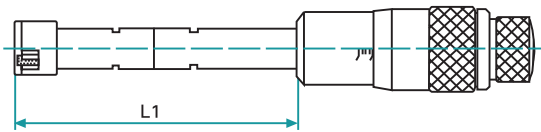


785-6

#### Chrome-plated surface (Metric)

CODE	RANGE mm	INDIVIDUAL RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
785 - 3	2 - 3	2-2.5,2.5-3	0.01	±4µm	1475.38
785 - 6	3 - 6	3-4,4-5,5-6	0.01	±4µm	1860.00
785 - 12	6 - 12	6-8,8-10,10-12	0.01	±4µm	1213.85
785 - 20	12 - 20	12-16,16-20	0.01	±4µm	600.00
785 - 40	20 - 40	20-25,25-30,30-40	0.01	±4µm	1351.54
785 - 50	20 - 50	20-25,25-30,30-40,40-50	0.01	±5µm	1730.77
785 - 100S	40 - 100	40-50,50-63,62-75,75-88,87-100	0.01	±5µm	2891.54
785 - 100	50 - 100	50-63,62-75,75-88,87-100	0.01	±5µm	2281.54

785-100



#### Dimensions

RANGE mm	Setting rings mm $\phi$	A mm	Extension rods mm
2 - 3	2,5	/	/
3 - 6	4,5,6	/	/
6 - 12	6,8,10	0,5	100
6 - 12	6,8,10	1,5	100
12 - 20	16	0,5	150
20 - 40	25,40	0,5	150
20 - 50	25,40	0,5	150
40 - 100	40,62,87	0,5	150
50 - 100	62,87	0,5	150



## ÜÇ NOKTA BASMALI İÇ MİKROMETRELER

### Three -Point Internal Micrometers

**Özellikler:**

- Mesafesi 2-6 mm, uzatma çubuksuz.
- Kör kovanların dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin delikler de ölçülebilir.
- Çok dayanıklıdır zira temas yüzeyleri elmaştır.
- Alan 2-6mm/0.08-0.28": iki temas noktalı modeller çok küçük delikler içindir.

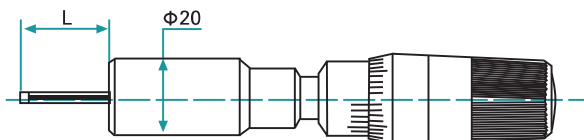
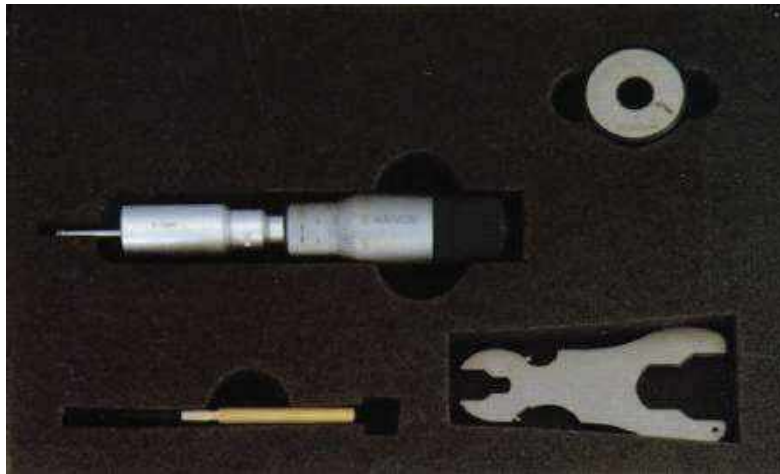
**Specifications:**

- Range 2-6mm without extension rods.
- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points.
- Range 2-6mm/0.08-0.28": Two Point Models for Very Small Holes.

Range:2-6mm/0.08-0.28"



				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
786 - 5	2 - 2.5	0.001	±4µm	<b>745.38</b>
786 - 3	2.5 - 3	0.001	±4µm	<b>745.38</b>
786 - 4	3 - 4	0.001	±4µm	<b>445.38</b>
786 - 5	4 - 5	0.001	±4µm	<b>330.00</b>
786 - 6	5 - 6	0.001	±4µm	<b>330.00</b>



Dimensions		
RANGE mm	Setting rings mm $\Phi$	L mm
2 - 2.5	2.5	12.5
2.5 - 3	2.5	12.5
3 - 4	4	22.5
4 - 5	5	22.5
5 - 6	6	22.5

## ÜÇ NOKTA BASMALI İÇ MİKROMETRELER Three -Point Internal Micrometers

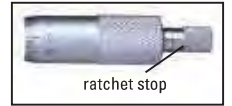
### Özellikler:

- Kör kovanların dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin delikler de ölçülebilir.
- Çok dayanıklıdır zira temas yüzeyleri elmadır.
- Temas yüzeyleri elma uçlu değil

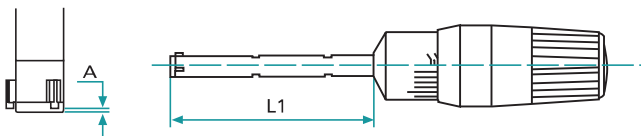
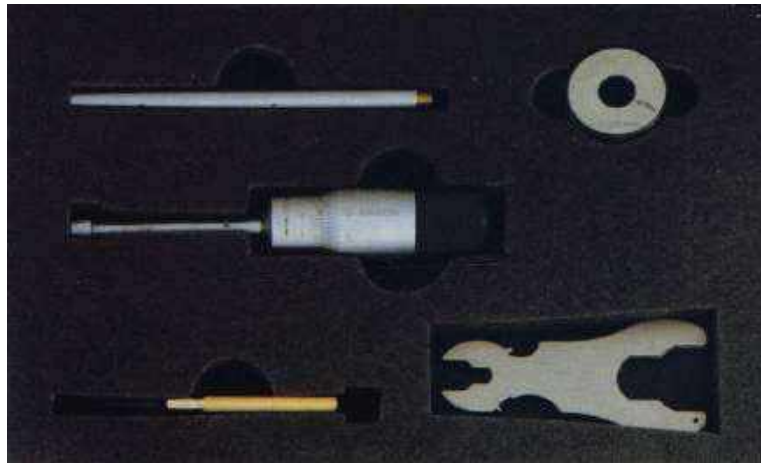
### Specifications:

- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points.
- Without carbide-tipped contact points.

Range:6-12mm/0.275-0.5"



Ratchet stop				
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
787 - 8	6 - 8	0.001	±4µm	490.00
787 - 10	8 - 10	0.001	±4µm	490.00
787 - 12	10 - 12	0.001	±4µm	490.00



Dimensions					
RANGE mm	Setting rings mm	ϕ	L1 mm	A mm	Extension rods mm
6 - 8	6		53.5	0.5	100
8 - 10	8		53.5	0.5	100
10 - 12	10		53.5	0.5	100

## ÜÇ NOKTA BASMALI İÇ MİKROMETRELER

### Three -Point Internal Micrometers

**Özellikler:**

- Kör kovanların dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin delikler de ölçülebilir.
- Çok dayanıklıdır zira temas yüzeyleri elmaştır.

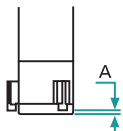
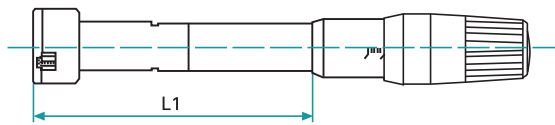
**Specifications:**

- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points.
- Within 100mm/4": Supplied with setting rings.
- Over 12mm/0.5": Titanium-plated anvils optional.

**Range:6-100mm/0.275-4"**



Chrome-plated surface				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
788 - 8	6 - 8	0.001	±4µm	445.38
788 - 10	8 - 10	0.001	±4µm	445.38
788 - 12	10 - 12	0.001	±4µm	445.38
788 - 16	12 - 16	0.001	±4µm	330.00
788 - 20	16 - 20	0.005	±4µm	330.00
788 - 25	20 - 25	0.005	±4µm	465.38
788 - 30	25 - 30	0.005	±4µm	465.38
788 - 40	30 - 40	0.005	±4µm	512.31
788 - 50	40 - 50	0.005	±5µm	593.85
788 - 63	50 - 63	0.005	±5µm	626.92
788 - 75	62 - 75	0.005	±5µm	673.08
788 - 88	75 - 88	0.005	±5µm	703.85
788 - 100	87 - 100	0.005	±5µm	737.69


**Dimensions**

RANGE mm	Setting rings mm $\phi$	L1 mm	A mm	Extension rods mm
6 - 8	6	54.5	1.5	100
8 - 10	8	54.5	1.5	100
10 - 12	10	54.5	1.5	100
12 - 16	16	80	0.5	150
16 - 20	16	80	0.5	150
20 - 25	25	90	0.5	150
25 - 30	25	90	0.5	150
30 - 40	40	97	0.5	150
40 - 50	40	97	0.5	150
50 - 63	62	114	0.5	150
62 - 75	62	114	0.5	150
75 - 88	87	114	0.5	150
87 - 100	87	114	0.5	150

## ÜÇ NOKTA BASMALI İÇ MİKROMETRELER Three -Point Internal Micrometers

### Özellikler:

- 100mm/4" üzeri: ayar ringleri isteğe bağlıdır.
- 100mm/4" üzeri: ölçüm yüzeyleri değiştirilebilir.
- Alüminyum gövde.
- Antikatot oksitlenme.

### Specifications:

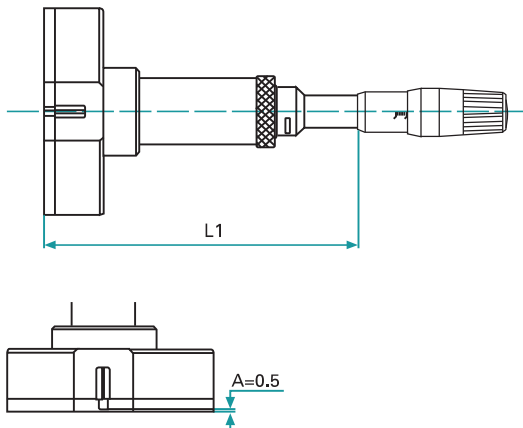
- Over 100mm/4": Setting rings optional.
- Over 100mm/4": Measuring heads are interchangeable.
- Aluminium body.
- Anticathode oxidation.



Range:30-300mm/1.2-12"



CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
790 - 40	30 - 40	0.005	±4µm	493.85
790 - 50	40 - 50	0.005	±5µm	572.31
790 - 63	50 - 63	0.005	±5µm	606.92
790 - 75	62 - 75	0.005	±5µm	650.77
790 - 88	75 - 88	0.005	±5µm	680.00
790 - 100	87 - 100	0.005	±5µm	712.31
790 - 125	100 - 125	0.005	±5µm	815.38
790 - 150	125 - 150	0.005	±5µm	976.92
790 - 175	150 - 175	0.005	±5µm	1170.77
790 - 200	175 - 200	0.005	±5µm	1413.85
790 - 225	200 - 225	0.005	±7µm	1688.46
790 - 250	225 - 250	0.005	±7µm	2027.69
790 - 275	250 - 275	0.005	±7µm	2438.46
790 - 300	275 - 300	0.005	±7µm	2923.08



Dimensions			
RANGE mm	Setting rings mm $\phi$	L1 mm	Extension rods mm
30 - 40	40	97	150
40 - 50	40	97	150
50 - 63	62	114	150
62 - 75	62	114	150
75 - 88	87	114	150
87 - 100	87	114	150
100 - 125	112.5	145	150
125 - 150	137.5	145	150
150 - 175	162.5	145	150
175 - 200	187.5	145	150
200 - 225	212.5	145	150
225 - 250	237.5	145	150
250 - 275	262.5	145	150
275 - 300	287.5	145	150

# ÜÇ NOKTA BASMALI İÇ MİKROMETRE SETLERİ

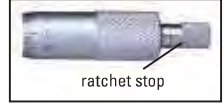
## Three -Point Internal Micrometers Sets

**Özellikler:**

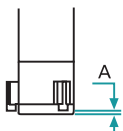
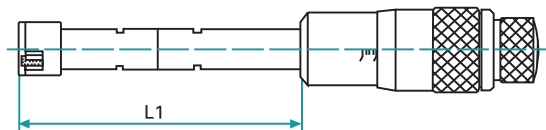
- 100mm/4" üzeri: ayar ringleri isteğe bağlıdır.
- 100mm/4" üzeri: ölçüm yüzeyleri değiştirilebilir.

**Specifications:**

- Over 100mm/4": Setting rings optional.
- Over 100mm/4": Measuring heads are interchangeable.



Chrome-plated surface (Metric)					Ratchet stop
CODE	RANGE mm	INDIVIDUAL RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
791 - 3	2 - 3	2-2,5,2,5-3	0.001	±4µm	<b>1475.38</b>
791 - 6	3 - 6	3-4,4-5,5-6	0.001	±4µm	<b>1860.00</b>
791 - 12	6 - 12	6-8,8-10,10-12	0.001	±4µm	<b>1213.85</b>
791 - 20	12 - 20	12-16,16-20	0.005	±4µm	<b>600.00</b>
791 - 40	20 - 40	20-25,25-30,30-40	0.005	±4µm	<b>1351.54</b>
791 - 50	20 - 50	20-25,25-30,30-40,40-50	0.005	±5µm	<b>1730.77</b>
791 - 100S	40 - 100	40-50,50-63,62-75,75-88,87-100	0.005	±5µm	<b>2891.54</b>
791 - 100	50 - 100	50-63,62-75,75-88,87-100	0.005	±5µm	<b>2281.54</b>


**Dimensions**

RANGE mm	Setting rings mm φ	A mm	Extension rods mm
2 - 3	2,5	/	/
3 - 6	4,5,6	/	/
6 - 12	6,8,10	0,5	100
6 - 12	6,8,10	1,5	100
12 - 20	16	0,5	150
20 - 40	25,40	0,5	150
20 - 50	25,40	0,5	150
40 - 100	40,62,87	0,5	150
50 - 100	62,87	0,5	150

## ELEKTRONİK ÜÇ NOKTA BASMALI İÇ MİKROMETRELER

### Electronic Three -Point Internal Micrometers

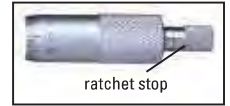
#### Özellikler:

- Mesafesi 2-6 mm, uzatma çubuksuz.
- Kör kovanların dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin delikler de ölçülebilir.
- Çok dayanıklıdır zira temas yüzeyleri elmadır.
- Kriteri: DIN40050/IEC529.
- RS232 veri çıkışı.
- Bağlantı kablosu P1102 (isteğe bağlı)
- 100/4" dahilinde, ayar rinleri ile verilir.
- İki temas noktalı modeller küçük delikleri içindir.

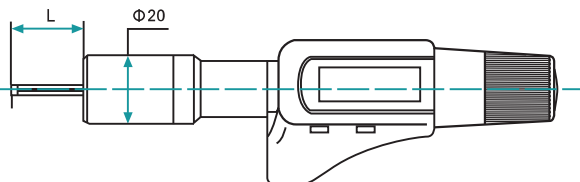
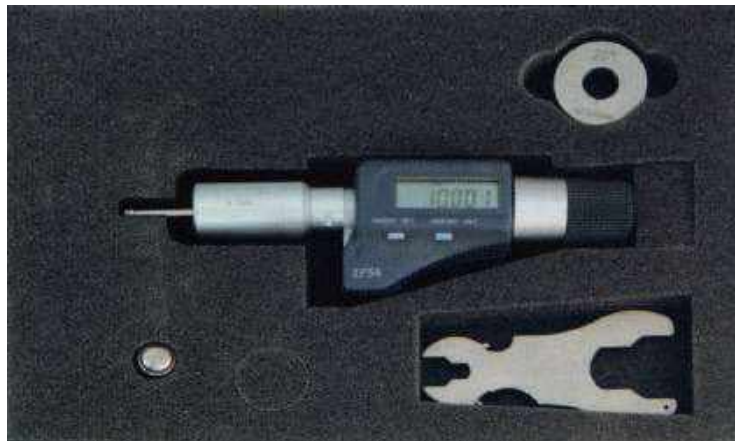
#### Specifications:

- Range 2-6mm without extension rods.
- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points;
- Criterion: DIN40050/IEC529.
- RS232 data output.
- Connecting cable:P1102 (Optional).
- Within 100mm/4", Supplied with setting rings.
- Two Point Models for Very Small Holes.

Range:2-6mm/0.08-0.28"



IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
792 - 2	2 - 2.5	0.001	±4µm	1016.15
792 - 3	2.5 - 3	0.001	±4µm	1016.15
792 - 4	3 - 4	0.001	±4µm	906.15
792 - 5	4 - 5	0.001	±4µm	906.15
792 - 6	5 - 6	0.001	±4µm	906.15



Dimensions			
RANGE mm	Setting rings mm	Φ	L mm
2 - 2.5	2.5		12.5
2.5 - 3	2.5		12.5
3 - 4	4		22.5
4 - 5	5		22.5
5 - 6	6		22.5

# ELEKTRONİK ÜÇ NOKTA BASMALI İÇ MİKROMETRELER

## Electronic Three -Point Internal Micrometers

**Özellikler:**

- Kör kovanların dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin delikler de ölçülebilir.
- Çok dayanıklıdır zira temas yüzeyleri elmastr.
- Kriteri: DIN40050/IEC529.
- RS232 veri çıkışı.
- Bağlantı kablosu P1102 (isteğe bağlı)
- Ayar rinleri ile birlikte verilir.
- Temas uçları elmas değildir.

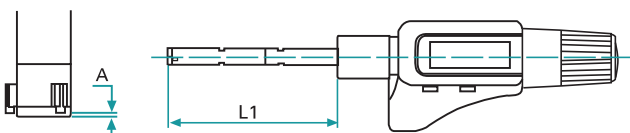
**Specifications:**

- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points.
- Criterion: DIN40050/IEC529.
- RS232 data output.
- Connecting cable:P1102 (Optional).
- Supplied with setting rings.
- Without carbide-tipped contact points.

Range:6-12mm/0.275-0.5"



IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
793 - 8	6 - 8	0.001	±4µm	760.77
793 - 10	8 - 10	0.001	±4µm	760.77
793 - 12	10 - 12	0.001	±4µm	760.77


**Dimensions**

RANGE mm	Setting rings mm $\phi$	L1 mm	A mm	Extension rods mm
6 - 8	6	53.5	0.5	100
8 - 10	8	53.5	0.5	100
10 - 12	10	53.5	0.5	100

## ELEKTRONİK ÜÇ NOKTA BASMALI İÇ MİKROMETRELER

### Electronic Three -Point Internal Micrometers

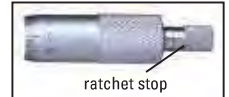
#### Özellikler:

- Kör kovanların dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin delikler de ölçülebilir.
- Çok dayanıklıdır zira temas yüzeyleri elmaştır.
- Kriteri: DIN40050/IEC529.
- RS232 veri çıkışı.
- Bağlantı kablosu P1102 (isteğe bağlı)
- Ayar rinleri ile birlikte verilir.

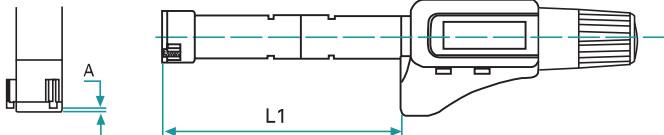
#### Specifications:

- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points.
- Criterion: DIN40050/IEC529.
- RS232 data output.
- Connecting cable:P1102 (Optional).
- Supplied with setting rings.

Range:6-100mm/0.275-4"



Chrome-plated surface		IP54		Ratchet stop	
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD	
794 - 8	6 - 8	0.001	±4µm	691.54	
794 - 10	8 - 10	0.001	±4µm	691.54	
794 - 12	10 - 12	0.001	±4µm	691.54	
794 - 16	12 - 16	0.001	±4µm	737.69	
794 - 20	16 - 20	0.001	±4µm	737.69	
794 - 25	20 - 25	0.001	±4µm	768.46	
794 - 30	25 - 30	0.001	±4µm	768.46	
794 - 40	30 - 40	0.001	±4µm	860.77	
794 - 50	40 - 50	0.001	±5µm	860.77	
794 - 63	50 - 63	0.001	±5µm	914.62	
794 - 75	62 - 75	0.001	±5µm	968.46	
794 - 88	75 - 88	0.001	±5µm	1006.92	
794 - 100	87 - 100	0.001	±5µm	1053.08	



Dimensions					
RANGE mm	Setting rings mm $\phi$	L1 mm	A mm	Extension rods mm	
6 - 8	6	54.5	1.5	100	
8 - 10	8	54.5	1.5	100	
10 - 12	10	54.5	1.5	100	
12 - 16	16	80	0.5	150	
16 - 20	16	80	0.5	150	
20 - 25	25	90	0.5	150	
25 - 30	25	90	0.5	150	
30 - 40	40	97	0.5	150	
40 - 50	40	97	0.5	150	
50 - 63	62	114	0.5	150	
62 - 75	62	114	0.5	150	
75 - 88	87	114	0.5	150	
87 - 100	87	114	0.5	150	



# ELEKTRONİK ÜÇ NOKTA BASMALI İÇ MİKROMETRELER

## Electronic Three -Point Internal Micrometers

**Özellikler:**

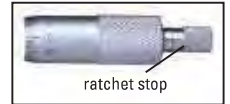
- Kriteri: DIN40050/IEC529.
- RS232 veri çıkışı.
- Bağlantı kablosu P110 (isteğe bağlı)
- 100mm/4" üzeri ayar rinleri isteğe bağlı.
- Ölçüm yüzeyleri değiştirilebilir.
- Alüminyum gövde.

**Specifications:**

- Criterion: DIN40050/IEC529.
- RS232 data output.
- Connecting cable:P110 (Optional).
- Over 100mm/4": Setting rings optional.
- Measuring heads are interchangeable.
- Aluminium body

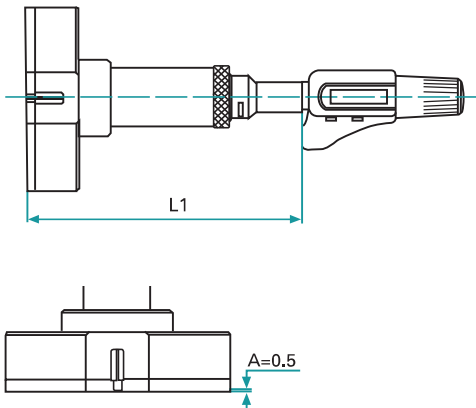


Range:30-300mm/1.2-12"


 Painted surface **IP54**

Ratchet stop

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
796 - 40	30 - 40	0.001	±4µm	<b>829.23</b>
796 - 50	40 - 50	0.001	±5µm	<b>829.23</b>
796 - 63	50 - 63	0.001	±5µm	<b>880.77</b>
796 - 75	62 - 75	0.001	±5µm	<b>931.54</b>
796 - 88	75 - 88	0.001	±5µm	<b>968.46</b>
796 - 100	87 - 100	0.001	±5µm	<b>1012.31</b>
796 - 125	100 - 125	0.001	±5µm	<b>1073.85</b>
796 - 150	125 - 150	0.001	±5µm	<b>1235.38</b>
796 - 175	150 - 175	0.001	±5µm	<b>1430.00</b>
796 - 200	175 - 200	0.001	±5µm	<b>1671.54</b>
796 - 225	200 - 225	0.001	±7µm	<b>1946.15</b>
796 - 250	225 - 250	0.001	±7µm	<b>2284.62</b>
796 - 275	250 - 275	0.001	±7µm	<b>2692.31</b>
796 - 300	275 - 300	0.001	±7µm	<b>3176.92</b>


**Dimensions**

RANGE mm	Setting rings mm φ	L1 mm	Extension rods mm
30 - 40	40	97	150
40 - 50	40	97	150
50 - 63	62	114	150
62 - 75	62	114	150
75 - 88	87	114	150
87 - 100	87	114	150
100 - 125	112.5	150	150
125 - 150	137.5	150	150
150 - 175	162.5	150	150
175 - 200	187.5	150	150
200 - 225	212.5	150	150
225 - 250	237.5	150	150
250 - 275	262.5	150	150
275 - 300	287.5	150	150

## ELEKTRONİK ÜÇ NOKTA BASMALI İÇ MİKROMETRE SETLERİ

### Electronic Three -Point Internal Micrometers Sets



797-12S

Chrome-plated surface

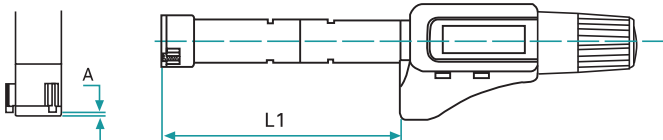
CODE	RANGE mm	INDIVIDUAL RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
797 - 3	2 - 3	2-2.5,2.5-3	0.001	±4µm	<b>2016.92</b>
797 - 6	3 - 6	3-4,4-5,5-6	0.001	±4µm	<b>2676.15</b>
797 - 12	6 - 12	6-8,8-10,10-12	0.001	±4µm	<b>1890.00</b>
797 - 20	12 - 20	12-16,16-20	0.001	±4µm	<b>1336.92</b>
797 - 40	20 - 40	20-25,25-30,30-40	0.001	±4µm	<b>2197.69</b>
797 - 50	20 - 50	20-25,25-30,30-40,40-50	0.001	±5µm	<b>2827.69</b>
797 - 100S	40 - 100	40-50,50-63,62-75,75-88,87-100	0.001	±5µm	<b>4140.00</b>
797 - 100	50 - 100	50-63,62-75,75-88,87-100	0.001	±5µm	<b>3279.23</b>



797-100

#### Dimensions

RANGE mm	Setting rings mm φ	A mm	Extension rods mm
2 - 3	2,5	/	/
3 - 6	4,5,6	/	/
6 - 12	6,8,10	0.5	100
6 - 12	6,8,10	1.5	100
12 - 20	16	0.5	150
20 - 40	25,40	0.5	150
20 - 50	25,40	0.5	150
40 - 100	40,62,87	0.5	150
50 - 100	62,87	0.5	150



# ELEKTRONİK ÜÇ NOKTA BASMALI İÇ MİKROMETRELER

## Electronic Three -Point Internal Micrometers

**Özellikler:**

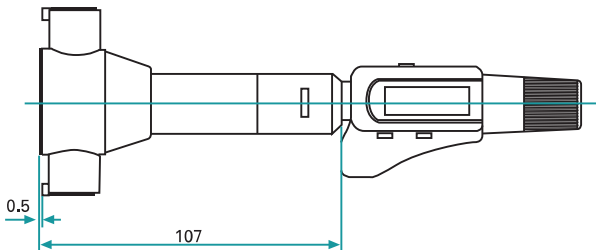
- İç çapların hassas ölçümü için 3 noktalı kendi kendine ayarlıdır. Kör kovanların dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin delikler de ölçülebilir.
- Patentli yapı nedeniyle geniş ölçüm alanına sahiptir.
- Çok dayanıklıdır zira temas yüzeyleri elmadır.
- Sıfır ayarları için ayar ringleri ile birlikte verilir.
- Kriteri: DIN40050/IEC529.
- Bağlantı kablosu P1102 (isteğe bağlı)

**Specifications:**

- Self-centering 3-point for accurate measurement of internal diameters. Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Large measuring range due to the patent structure.
- Highly durable because of carbide-tipped contact points.
- Supplied with setting rings for zero adjust.
- Criterion: DIN40050/IEC529.
- Connecting cable: P1102 (Optional).



IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
798 - 70	50 - 70	0.001	±4µm	<b>820.00</b>
798 - 100	70 - 100	0.001	±4µm	<b>1099.23</b>
798 - 150	100 - 150	0.001	±5µm	<b>1812.31</b>
798 - 250	150 - 250	0.001	±7µm	<b>3714.62</b>
798 - 300	200 - 300	0.001	±7µm	<b>5206.15</b>



Dimensions	
RANGE mm	Setting rings mm $\phi$
50 - 70	50
70 - 100	70
100 - 150	100
150 - 250	150
200 - 300	Optional

## ÜÇ NOKTA BASMALI İÇ MİKROMETRELER Three -Point Internal Micrometers

### Özellikler:

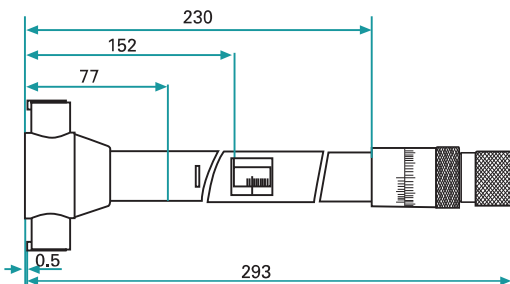
- İç çapların hassas ölçümü için 3 noktalı kendi kendine ayarlıdır. Kör kovanların dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin delikler de ölçülebilir.
- Patentli yapı nedeniyle geniş ölçüm alanına sahiptir.
- Çok dayanıklıdır zira temas yüzeyleri elmaştır.
- Sıfır ayarları için ayar rinlerle birlikte verilir.

### Specifications:

- Self-centering 3-point for accurate measurement of internal diameters. Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Large measuring range due to the patent structure.
- Highly durable because of carbide-tipped contact points.
- Supplied with setting rings for zero adjust.



Ratchet stop				
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
799 - 70	50 - 70	0.001	±4µm	<b>684.62</b>
799 - 100	70 - 100	0.001	±4µm	<b>914.62</b>
799 - 150	100 - 150	0.001	±5µm	<b>1553.85</b>
799 - 250	150 - 250	0.001	±7µm	<b>3266.15</b>
799 - 300	200 - 300	0.001	±7µm	<b>4608.46</b>



Dimensions	
RANGE mm	Setting rings mm $\phi$
50 - 70	50
70 - 100	70
100 - 150	100
150 - 250	150
200 - 300	Optional

**ELEKTRONİK ÜÇ NOKTA BASMALI İÇ MİKROMETRE TAKIMLARI**
**Electronic Three -Point Internal Micrometers Sets**

**IP54**

CODE	RANGE mm	INDIVIDUAL RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
801 - 100	50-100	50-70, 70-100	0.001	±5µm	<b>1919.23</b>
801 - 250	100-250	100-150, 150-250	0.001	±10µm	<b>5526.92</b>

**ÜÇ NOKTA BASMALI İÇ MİKROMETRE TAKIMLARI**
**Three -Point Internal Micrometers Sets**


CODE	RANGE mm	INDIVIDUAL RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
802 - 100	50-100	50-70, 70-100	0.001	±5µm	<b>1575.38</b>
802 - 250	100-250	100-150, 150-250	0.001	±10µm	<b>4781.54</b>

**Dimensions**

RANGE mm	Setting rings mm φ	Extension rods mm
50-100	70	150
100-250	150	150

## ELEKTRONİK ÜÇ NOKTA BASMALI İÇ MİKROMETRELER

### Electronic Three -Point Internal Micrometers

#### Özellikler:

- Patentli yapı ve değişebilir çubuklar nedeniyle geniş ölçüm alanına sahiptir.
- Yüksek hassasiyetteki değişebilir çubuklar, çubuklar değiştirildikten sonra değerin reset edilmesini gerektirmez.
- Kriteri: DIN40050/IEC529.
- RS232 veri çıkışı.
- Bağlantı kablosu P1102 (isteğe bağlı)
- L: Ölçülen çapın azami boyutu.

#### Specifications:

- Large measuring range due to the patent structure and interchangeable measuring rods
- High accuracy interchangeable measuring rods enable that reading does not have to be reset after changing rods.
- Criterion: DIN40050/IEC529.
- RS232 data output.
- Connecting cable: P1102 (Optional).
- L: maximum dimension of measured diameter.



IP54				Ratchet stop
CODE	RANGE mm	RESOLUTION	ACCURACY mm	Birim Fiyatı USD
803 - 500	200 - 500	0.001	(1+L/50) $\mu$ m	12 925.08
803 - 1000	200 - 1000	0.001	(1+L/50) $\mu$ m	15 230.77



Dimensions		
RANGE mm	Setting rings mm $\phi$	Extension rods mm
200-500	200	150,500
200-1000	200	150,500,1000

# ELEKTRONİK İKİ NOKTA BASMALI İÇ MİKROMETRELER

## Electronic Two-Point Internal Micrometers

**Özellikler:**

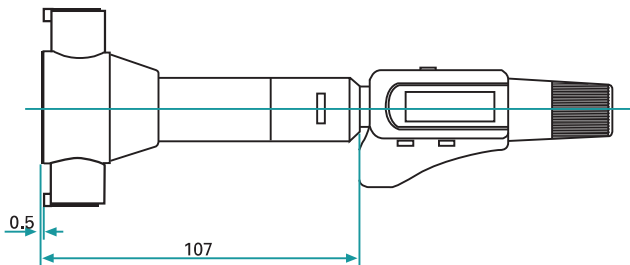
- Kör kovanları dibine kadar ölçü alınabilir ve uzatma çubuğu ile dibine kadar ulaşılabilir.
- Patentli yapı nedeniyle geniş ölçüm alanına sahiptir.
- Çok dayanıklıdır zira temas yüzeyleri elmaştır.
- Sıfır ayarı için ringlerle birlikte verilir
- Kriteri: DIN40050/IEC529.
- Bağlantı kablosu P1102 (isteğe bağlı)

**Specifications:**

- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Large measuring range due to the patent structure.
- Highly durable because of carbide-tipped contact points.
- Supplied with setting rings for zero adjust.
- Criterion: DIN40050/IEC529.
- Connecting cable: P1102 (Optional).


**IP54**
**Ratchet stop**

CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
804 - 70	50 - 70	0.001	±6µm	<b>614.62</b>
804 - 100	70 - 100	0.001	±6µm	<b>760.77</b>
804 - 150	100 - 150	0.001	±7µm	<b>876.15</b>
804 - 250	150 - 250	0.001	±10µm	<b>1014.62</b>
804 - 300	200 - 300	0.001	±10µm	<b>1176.92</b>


**Dimensions**

RANGE mm	Setting rings mm $\phi$
50-70	50
70-100	70
100-150	100
150-200	150
200-300	Optional

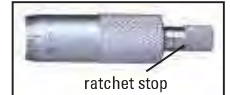
## İKİ NOKTA BASMALI İÇ MİKROMETRELER Tw0 -Point Internal Micrometers

### Özellikler:

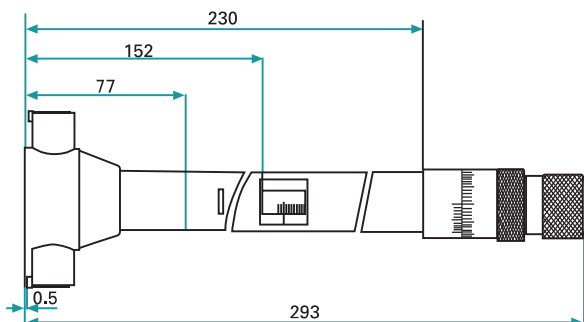
- Kör kovanları dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin deliklerde ölçülebilir.
- Patentli yapı nedeniyle geniş ölçüm alanına sahiptir.
- Çok dayanıklıdır zira temas yüzeyleri elmadır.
- Sıfır ayarı için ringlerle birlikte verilir

### Specifications:

- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Large measuring range due to the patent structure.
- Highly durable because of carbide-tipped contact points.
- Supplied with setting rings for zero adjust.



Ratchet stop				
CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
805 - 70	50 - 70	0.001	±6µm	<b>479.23</b>
805 - 100	70 - 100	0.001	±6µm	<b>576.15</b>
805 - 150	100 - 150	0.001	±7µm	<b>691.54</b>
805 - 250	150 - 250	0.001	±10µm	<b>830.00</b>
805 - 300	200 - 300	0.001	±10µm	<b>992.31</b>



Dimensions	
RANGE mm	Setting rings mm $\phi$
50-70	50
70-100	70
100-150	100
150-200	150
200-300	Optional



## ELEKTRONİK İKİ NOKTA BASMALI İÇ MİKROMETRE SETLERİ

### Electronic Two -Point Internal Micrometers Sets


**IP54**

CODE	RANGE mm	INDIVIDUAL RANGE mm	RESOLUTION	ACCURACY mm	Birim Fiyatı USD
806 - 100	50-100	50-70,70-100	0.001	±10µm	<b>1352.31</b>
806 - 250	100-250	100-150,150-250	0.001	±10µm	<b>1876.69</b>

## İKİ NOKTA BASMALI İÇ MİKROMETRE TAKIMLARI

### Two -Point Internal Micrometers Sets



CODE	RANGE mm	INDIVIDUAL RANGE mm	Birim Fiyatı USD
807 - 100	50-100	50-70,70-100	<b>1032.31</b>
807 - 250	100-250	100-150,150-250	<b>1498.46</b>

#### Dimensions

RANGE mm	Setting rings mm φ	Extension rods mm
50-100	70	150
100-250	150	150

## ELEKTRONİK İKİ NOKTA BASMALI İÇ MİKROMETRELER

### Electronic Two-Point Internal Micrometers

#### Özellikler:

- Patentli yapı ve değişebilir çubuklar nedeniyle geniş ölçüm alanına sahiptir.
- Yüksek hassasiyetteki değişebilir çubuklar, çubuklar değiştirildikten sonra değerin reset edilmesini gerektirmez.
- Kriteri: DIN40050/IEC529.
- RS232 veri çıkış kablosu.
- Bağlantı kablosu P1102 (isteğe bağlı)
- L: Ölçülen çapın azami boyutu.

#### Specifications:

- Large measuring range due to the patent structure and interchangeable measuring rods
- High accuracy interchangeable measuring rods enable that reading does not have to be reset after changing rods.
- Criterion: DIN40050/IEC529.
- RS232 data output, Connecting cable: P1102 (Optional).
- L: maximum dimension of measured diameter.



IP54		Ratchet stop	
CODE	RANGE mm	ACCURACY mm	Birim Fiyatı USD
808 - 500	200 - 500	(3+L/50)µm	1607.69
808 - 1000	200 - 1000	(3+L/50)µm	1607.69



Dimensions		
RANGE mm	Setting rings mm φ	Extension rods mm
200-500	200	150,500
200-1000	200	150,500,1000

# KABZALI ÜÇ NOKTA BASMALI KOVAN MASTARLARI

## Pistol -Grip Three -Point Bore Gages

**Özellikler:**

- Tek elle kullanım, -sağ el ve sol el -sol taraftan okuyabilme esnekliği.
- İç çapların hassas ölçümü için 3 noktalı kendi kendine ayarlıdır. Kör kovanların dibine kadar ölçü alınabilir ve uzatma çubuğu ile derin delikler de ölçülebilir.
- Çok dayanıklıdır zira temas yüzeyleri elmadır.
- Sıfır ayarı için gereken ringlerle birlikte verilir. (100/4" üzeri ayar ringi isteğe bağlıdır).
- Ölçüm saati kullanıcı tarafından sağlanır.
- Saat ölçü boyunu sabitleme: 8mm veya 3/8" (9.525mm)

**Specifications:**

- Single-hand operation, right-hand and left-hand viewing flexibility.
- Self-centering 3-point for accurate measurement of internal diameters. Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Highly durable because of carbide-tipped contact points. Supplied with setting rings for zero adjust (Over 100mm/4", setting rings optional).
- Dial indicator is supplied by user.
- Fixing dimension of dial indicator: Ø8mm or 3/8" (Ø9.525mm).



Ölçüm saati isteğe bağlı temin edilir. Fiyatlara dahil değildir.

CODE	RANGE mm	ACCURACY	Birim Fiyatı USD
810 - 8	6 - 8	±4µm	576.92
810 - 10	8 - 10	±4µm	565.38
810 - 12	10 - 12	±4µm	599.23
810 - 16	12 - 16	±4µm	606.15
810 - 20	16 - 20	±4µm	642.31
810 - 25	20 - 25	±4µm	683.85
810 - 30	25 - 30	±4µm	728.46
810 - 40	30 - 40	±4µm	783.85
810 - 50	40 - 50	±5µm	834.62
810 - 63	50 - 63	±5µm	889.23
810 - 75	62 - 75	±5µm	946.92
810 - 88	75 - 88	±5µm	1008.46
810 - 100	87 - 100	±5µm	1073.85
810 - 125	100 - 125	±5µm	1038.46
810 - 150	125 - 150	±5µm	1200.00
810 - 175	150 - 175	±5µm	1392.31
810 - 200	175 - 200	±5µm	1638.46
810 - 225	200 - 225	±7µm	1915.38
810 - 250	225 - 250	±7µm	2253.85
810 - 275	250 - 275	±7µm	2661.54
810 - 300	275 - 300	±7µm	3007.69

Dimensions			
RANGE mm	Setting rings mm φ	L mm	A mm
6 - 8	6	50	1.5
8 - 10	8	50	1.5
10 - 12	10	50	1.5
12 - 16	16	65	0.5
16 - 20	16	65	0.5
20 - 25	25	91	0.5
25 - 30	25	91	0.5
30 - 40	40	97	0.5
40 - 50	40	97	0.5
50 - 63	62	112	0.5
62 - 75	62	112	0.5
75 - 88	87	112	0.5
87 - 100	87	112	0.5
100 - 125	112.5	130	0.5
125 - 150	137.5	130	0.5
150 - 175	162.5	130	0.5
175 - 200	187.5	130	0.5
200 - 225	212.5	130	0.5
225 - 250	237.5	130	0.5
250 - 275	262.5	130	0.5
275 - 300	287.5	130	0.5

## KABZALI ÜÇ NOKTA BASMALI KOVAN MASTAR SETLERİ

### Pistol -Grip Three -Point Bore Gages Sets



957-1F

Ölçüm saati isteğe bağlı temin edilir, Fiyatlara dahil değildir.

CODE	RANGE mm	INDIVIDUAL RANGE mm	Birim Fiyatı USD
811 - 12	6 - 12	6-8,8-10,10-12	<b>1439.23</b>
811 - 20	12 - 20	12-16,16-20	<b>1061.54</b>
811 - 50	20 - 50	20-25,25-30,30-40,40-50	<b>2613.08</b>
811 - 100	50 - 100	50-63,62-75,75-88,87-100	<b>3210.77</b>

Dimensions		
RANGE mm	Setting rings mm $\phi$	Extension rods mm
6 - 12	6,8,10	100
12 - 20	16	150
20 - 50	25,40	150
50 - 100	62,87	150

## DİJİTAL MEYİL VE AÇI ÖLÇER

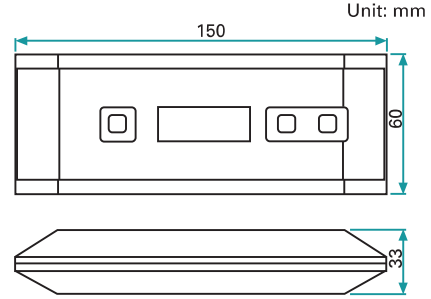
### Digital Level and Protractor

**Özellikler:**

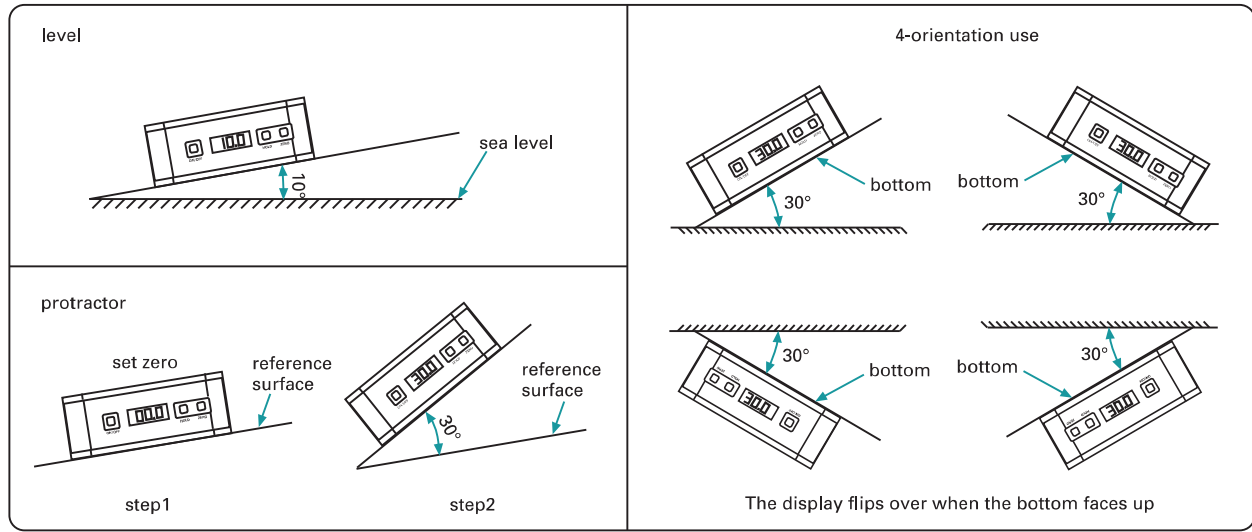
- Meyil ve açı ölçmek için kullanılır.
- Şaftları ölçmek için manyetik ayaklı.
- ON/OFF, sıfır değeri sakla butonlu.
- CR2032 pil.
- Otomatik kapatma

**Specifications:**

- Used as level and protractor.
- Magnetic bottom with V-groove for shafts.
- Buttons: ON/OFF, ZERO, HOLD (keep the reading).
- CR2032 battery.
- Automatic power off

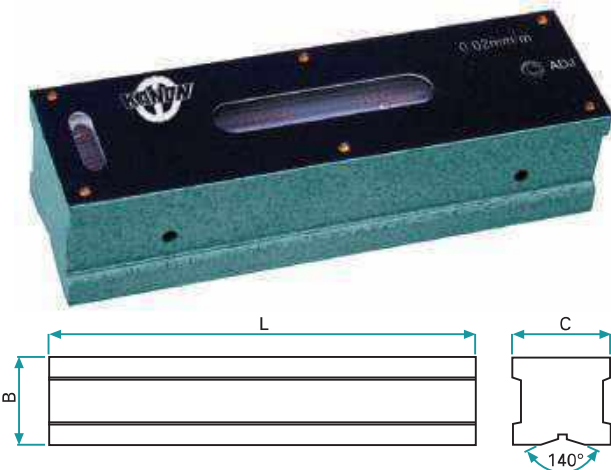


CODE	RANGE mm	RESOLUTION	ACCURACY	Birim Fiyatı USD
863 - 360	0-360° (90°x4)	0.1° (=1.745mm/m)	±0.2°	



## SEVİYE BLOKLARI (Su Teraziler)

### Block Level


**Özellikler:**

- Su terazili.
- Ayarlama anahtarı ile birlikte verilir.

**Specifications:**

- With transverse vial.
- Supplied with adjusting wrench

CODE	SIZE (L) mm	SENSITIVITY mm/m	B mm	C mm	Birim Fiyatı USD
862-150	150	0.02	40	45	
862-200	200	0.02	42	47	
862-300	300	0.02	45	50	

## 90° YE KADAR AYARLANABİLİR GÖNYE

### 90° Tool Maker Square



1051-75

**Özellikler:**

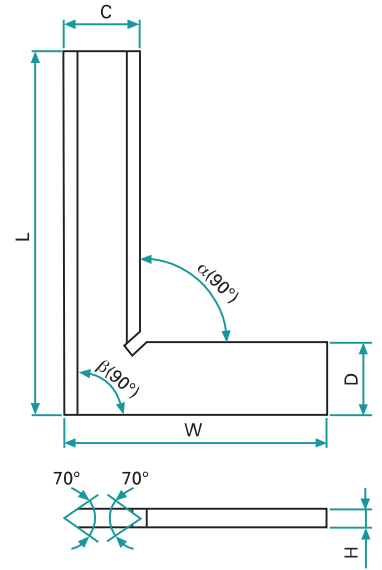
- Parlak krom kaplama.
- İç ve dış ölçümler için kenarlar ayarlanabilir.
- Sertleştirilmiş paslanmaz çelikten imal edilmiştir.

**Specifications:**

- Satin chrome plating.
- Beveled edges for inside and outside measurement.
- Made of hardened stainless steel

DIN 875 sınıfı 00 / DIN 875 grade 00

CODE	SIZE(LxW) mm	Squareness		C mm	D mm	H mm	Birim Fiyatı USD
		Inside ( $\alpha$ )	Outside ( $\beta$ )				
1051-50	50x40	2.4 $\mu$ m	2.5 $\mu$ m	13	13	4	
1051-75	75x50	2.6 $\mu$ m	2.8 $\mu$ m	15	15	4	
1051-100	100x70	2.8 $\mu$ m	3.0 $\mu$ m	20	20	5	
1051-150	150x100	3.2 $\mu$ m	3.5 $\mu$ m	30	30	6	
1051-200	200x130	3.7 $\mu$ m	4.0 $\mu$ m	34	34	7	
1051-250	250x165	4.2 $\mu$ m	4.5 $\mu$ m	35	35	7	
1051-300	300x200	4.6 $\mu$ m	5.0 $\mu$ m	40	40	8	



## 90° DÜZ KENARLI GÖNYE

### 90° Flat Edge Square



1053-75

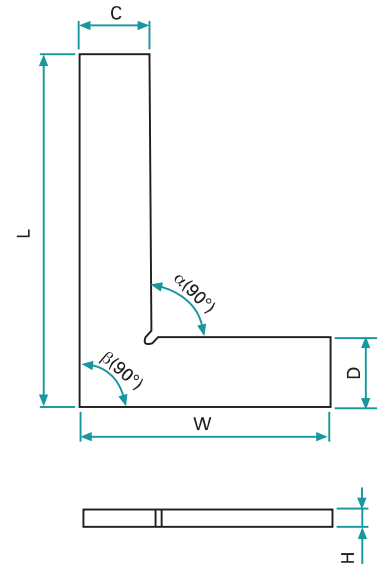
**Özellikler:**

- DIN 875 sınıfı 0
- Sertleştirilmiş paslanmaz çelikten imal edilmiştir.

**Specifications:**

- DIN 875 grade 0
- Made of hardened stainless steel

CODE	SIZE(LxW) mm	Squareness		C mm	D mm	H mm	Birim Fiyatı USD
		Inside ( $\alpha$ )	Outside ( $\beta$ )				
1053-50	50x40	6 $\mu$ m	6 $\mu$ m	13	13	4	
1053-75	75x50	6 $\mu$ m	7 $\mu$ m	15	15	4	
1053-100	100x70	7 $\mu$ m	7 $\mu$ m	20	20	5	
1053-150	150x100	7 $\mu$ m	8 $\mu$ m	30	30	6	
1053-200	200x130	8 $\mu$ m	9 $\mu$ m	30	30	7	
1053-250	250x165	9 $\mu$ m	10 $\mu$ m	35	35	7	
1053-300	300x200	10 $\mu$ m	11 $\mu$ m	40	40	8	



## 90° GENİŞ TABANLI GÖNYE

### 90° Flat Edge Square With Wide Base

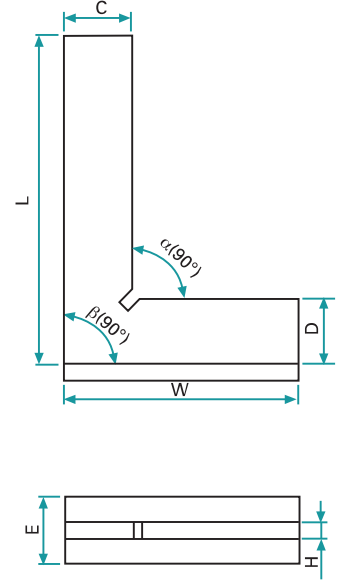

**1054-75**
**Özellikler:**

- DIN 875 sınıfı 0
- Sertleştirilmiş paslanmaz çelikten imal edilmiştir.

**Specifications:**

- DIN 875 grade 0
- Made of hardened stainless steel

CODE	SIZE(LxW) mm	Squareness		C mm	D mm	H mm	E mm	Birim Fiyatı USD
		Inside ( $\alpha$ )	Outside ( $\beta$ )					
1054-50	50x40	6 $\mu$ m	6 $\mu$ m	13	13	4	13	
1054-75	75x50	6 $\mu$ m	7 $\mu$ m	15	15	4	15	
1054-100	100x70	7 $\mu$ m	7 $\mu$ m	20	20	5	20	
1054-150	150x100	7 $\mu$ m	8 $\mu$ m	30	30	6	30	
1054-200	200x130	8 $\mu$ m	9 $\mu$ m	30	30	7	30	
1054-250	250x165	9 $\mu$ m	10 $\mu$ m	35	35	7	35	
1054-300	300x200	10 $\mu$ m	11 $\mu$ m	40	40	8	40	



## 90° GENİŞ TABANLI AYARLANABİLİR GÖNYE

### 90° Flat Edge Square With Wide Base

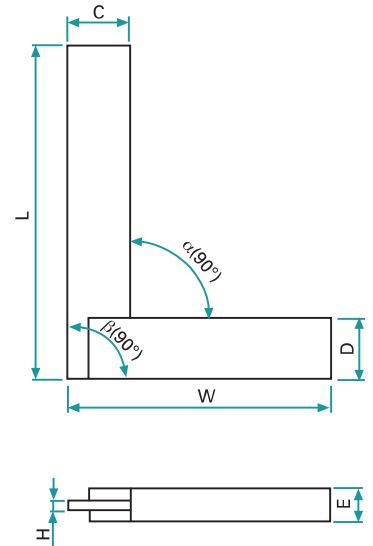

**1055-75**
**Özellikler:**

- DIN 875 sınıfı 0
- Sertleştirilmiş paslanmaz çelikten imal edilmiştir.

**Specifications:**

- DIN 875 grade 0
- Made of hardened stainless steel

CODE	SIZE(LxW) mm	Squareness		C mm	D mm	H mm	E mm	Birim Fiyatı USD
		Inside ( $\alpha$ )	Outside ( $\beta$ )					
1055-50	50x40	6 $\mu$ m	6 $\mu$ m	12	12	3	10	
1055-75	75x50	6 $\mu$ m	7 $\mu$ m	14	14	3	10	
1055-100	100x70	7 $\mu$ m	7 $\mu$ m	18	18	3	10	
1055-150	150x100	8 $\mu$ m	8 $\mu$ m	22	22	4	12	
1055-200	200x130	9 $\mu$ m	9 $\mu$ m	25	25	4	12	



## 90° AYARLANABİLİR GENİŞ TABANLI GÖNYE

### 90° Beveled Edge Square With Wide Base



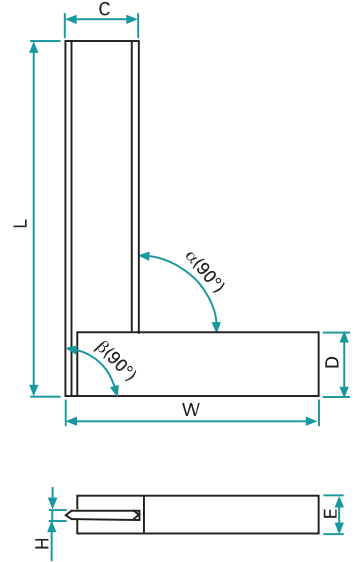
1056-75

#### Özellikler:

- DIN 875 sınıfı 0
- Ayarlanabilir kenarlar iç ve dış ölçmeler içindir.
- Sertleştirilmiş paslanmaz çelikten imal edilmiştir.

#### Specifications:

- DIN 875 grade 0
- Beveled edges for inside and outside measurement.
- Made of hardened stainless steel.



CODE	SIZE(LxW) mm	Squareness		C mm	D mm	H mm	E mm	Birim Fiyatı USD
		Inside ( $\alpha$ )	Outside ( $\beta$ )					
1056-50	50x40	6 $\mu$ m	6 $\mu$ m	12	12	3	10	
1056-75	75x50	6 $\mu$ m	7 $\mu$ m	14	14	3	10	
1056-100	100x70	7 $\mu$ m	7 $\mu$ m	18	18	3	10	
1056-150	150x100	8 $\mu$ m	8 $\mu$ m	22	22	4	12	
1056-200	200x130	9 $\mu$ m	9 $\mu$ m	25	25	4	12	



1057-75

#### Özellikler:

- Karbon çelikten imal edilmiştir.
- DIN 875 sınıfı 1, kenar ayrıca sertleştirilmiştir.

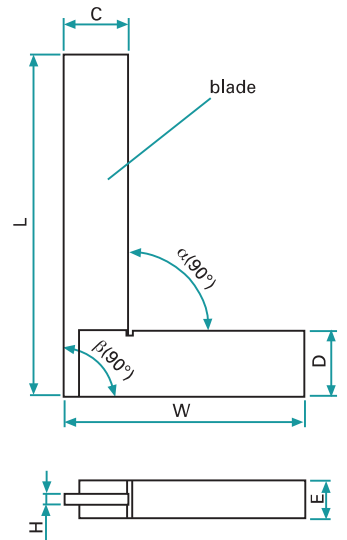
#### Specifications:

- Made of carbon steel
- DIN 875 grade 1, blade is hardened individual

## 90° GENİŞ TABANLI MAKİNİST GÖNYESİ

### 90° Machinist Square With Wide Base

CODE	SIZE(LxW) mm	Squareness		C mm	D mm	H mm	E mm	Birim Fiyatı USD
		Inside ( $\alpha$ )	Outside ( $\beta$ )					
1057-50	50x40	12 $\mu$ m	13 $\mu$ m	16	12	3	9	
1057-75	75x50	13 $\mu$ m	14 $\mu$ m	16	16	3	9	
1057-100	100x70	14 $\mu$ m	15 $\mu$ m	19	19	3	12	
1057-150	150x100	16 $\mu$ m	18 $\mu$ m	25	25	3	16	
1057-200	200x130	18 $\mu$ m	20 $\mu$ m	30	32	4	16	
1057-250	250x165	21 $\mu$ m	23 $\mu$ m	30	32	4	19	
1057-300	300x200	23 $\mu$ m	25 $\mu$ m	32	32	4	19	
1057-400	400x250	28 $\mu$ m	30 $\mu$ m	38	38	5	22	
1057-500	500x300	33 $\mu$ m	35 $\mu$ m	45	50	6	25	
1057-600	600x350	38 $\mu$ m	40 $\mu$ m	50	50	6	30	
1057-750	750x400	45 $\mu$ m	48 $\mu$ m	55	55	6	50	
1057-900	900x500	51 $\mu$ m	55 $\mu$ m	65	75	9	50	
1057-1000	1000x550	56 $\mu$ m	60 $\mu$ m	65	75	9	50	





## 90° GENİŞ TABANLI MAKİNİST GÖNYESİ

### 90° Machinist Square With Wide Base

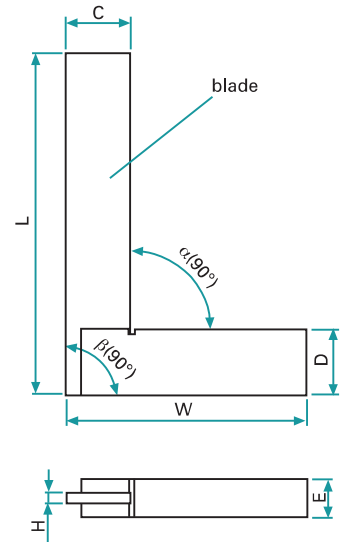

**1058-75**
**Özellikler:**

- Karbon çelikten imal edilmiştir.
- DIN 875 sınıfı 2, kenar ayrıca sertleştirilmiştir.

**Specifications:**

- Made of carbon steel
- DIN 875 grade 2, blade is hardened individual

CODE	SIZE(LxW) mm	Squareness		C mm	D mm	H mm	E mm	Birim Fiyatı USD
		Inside ( $\alpha$ )	Outside ( $\beta$ )					
1058-50	50x40	24 $\mu$ m	25 $\mu$ m	16	12	3	9	
1058-75	75x50	26 $\mu$ m	28 $\mu$ m	16	16	3	9	
1058-100	100x70	28 $\mu$ m	30 $\mu$ m	19	19	3	12	
1058-150	150x100	33 $\mu$ m	35 $\mu$ m	25	25	3	16	
1058-200	200x130	37 $\mu$ m	40 $\mu$ m	30	32	4	16	
1058-250	250x165	42 $\mu$ m	45 $\mu$ m	30	32	4	19	
1058-300	300x200	47 $\mu$ m	50 $\mu$ m	32	32	4	19	
1058-400	400x250	56 $\mu$ m	60 $\mu$ m	38	38	5	22	
1058-500	500x300	65 $\mu$ m	70 $\mu$ m	45	50	6	25	
1058-600	600x350	75 $\mu$ m	80 $\mu$ m	50	50	6	30	
1058-750	750x400	90 $\mu$ m	95 $\mu$ m	55	55	6	50	
1058-900	900x500	103 $\mu$ m	110 $\mu$ m	65	75	9	50	
1058-1000	1000x550	113 $\mu$ m	120 $\mu$ m	65	75	9	50	



## 90° MAKİNİST GÖNYESİ

### 90° Machinist Square

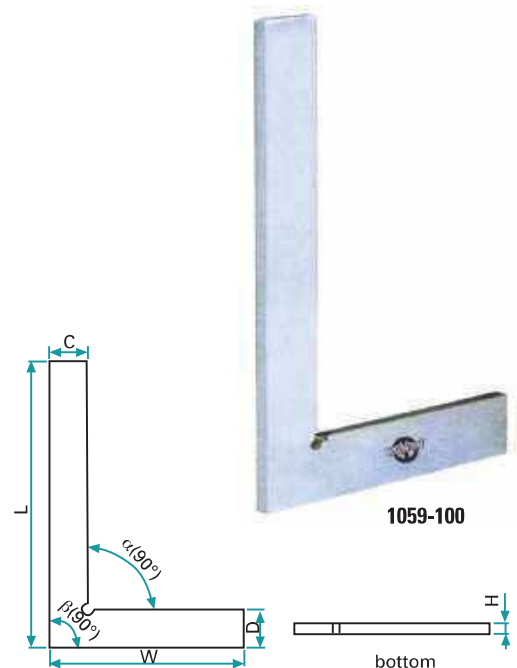
**Özellikler:**

- Karbon çelikten imal edilmiştir.
- Galvanizli.

**Specifications:**

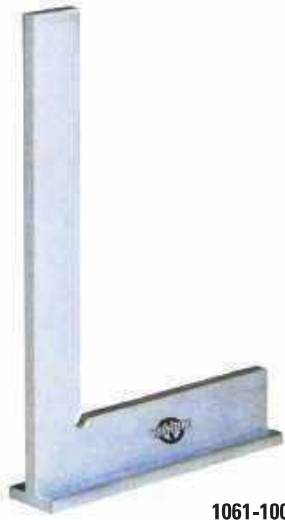
- Made of carbon steel.
- Galvanized.

CODE	SIZE(LxW) mm	Squareness		C mm	D mm	H mm	Birim Fiyatı USD
		Inside ( $\alpha$ )	Outside ( $\beta$ )				
1059-100	100x70	0.15mm	0.15mm	20	20	5	
1059-150	150x100	0.20mm	0.20mm	20	20	5	
1059-200	200x130	0.25mm	0.25mm	20	20	5	
1059-250	250x160	0.30mm	0.30mm	25	25	5	
1059-300	300x180	0.30mm	0.30mm	25	25	5	
1059-400	400x230	0.35mm	0.35mm	30	30	6	
1059-500	500x280	0.35mm	0.35mm	30	30	6	
1059-600	600x330	0.40mm	0.40mm	30	30	6	
1059-750	750x375	0.45mm	0.45mm	30	30	6	
1059-1000	1000x500	0.50mm	0.50mm	30	30	6	



## 90° GENİŞ TABANLI MAKİNİST GÖNYESİ

### 90° Machinist Square With Wide Base



1061-100

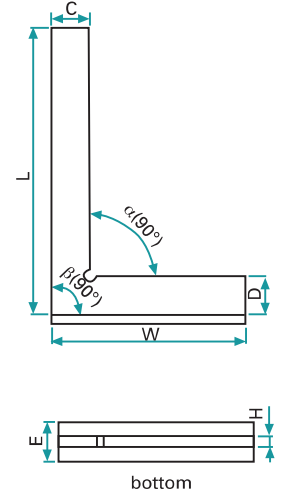
#### Özellikler:

- Karbon çelikten imal edilmiştir.
- Galvanizli.

#### Specifications:

- Made of carbon steel.
- Galvanized.

CODE	SIZE(LxW) mm	Squareness		C mm	D mm	H mm	E mm	Birim Fiyatı USD
		Inside ( $\alpha$ )	Outside ( $\beta$ )					
1058-100	100x70	0.15mm	0.15mm	20	20	5	20	
1058-150	150x100	0.20mm	0.20mm	20	20	5	20	
1058-200	200x130	0.25mm	0.25mm	20	20	5	25	
1058-250	250x160	0.30mm	0.30mm	25	25	5	25	
1058-300	300x180	0.30mm	0.30mm </tr					



## KIL GÖNYE

### Straight Edge



1062-100

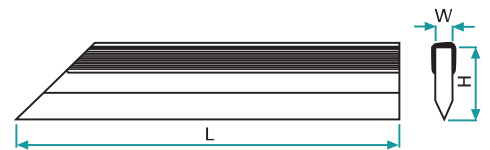
#### Özellikler:

- DIN 874
- Parlak krom kaplı.
- Sertleştirilmiş paslanmaz çelikten imal edilmiştir.

#### Specifications:

- DIN 874
- Satin chrome plating
- Made of hardened stainless steel.

CODE	SIZE(L) mm	STRAIGHTNESS	W mm	H mm	Birim Fiyatı USD
1062-50	50	2.2μM	5	20	
1062-75	75	2.3μM	5	25	
1062-100	100	2.4μM	5	25	
1062-125	125	2.5μM	5	25	
1062-150	150	2.6μM	6	30	
1062-200	200	2.8μM	6	30	
1062-250	250	3.0μM	8	40	
1062-300	300	3.2μM	8	40	
1062-400	400	3.6μM	10	50	
1062-500	500	4.0μM	10	50	



## GRANİT YÜZEYLİ TABLALAR

### Granit Surface Plates



CODE	ÖLÇÜ SIZE mm	YÜZEY DÜZLÜK DERECESİ 0 GRADE 0 FLATNESS mm	NET AĞIRLIK NET WEIGHT kg.	0 KALİTE Birim Fiyatı USD
996 - 320	300 X 200 X 50	3.6	9	128.00
996 - 330	300 X 300 X 70	3.8	19	200.00
996 - 425	400 X 250 X 70	4	21	224.00
996 - 440	400 X 400 X 70	4.5	34	360.00
996 - 640	630 X 400 X 100	5	77	592.00
996 - 663	630 X 630 X 100	5	121	1008.00
996 - 850	800 X 500 X 130	5.3	159	1064.00
996 - 960	900 X 600 X 130	5.7	215	1432.00
996 - 1063	1000 X 630 X 150	6	290	1928.00
996 - 1075	1000 X 750 X 150	6.3	345	2272.00
996 - 1100	1000 X 1000 X 150	7	460	3056.00
996 - 1610	1600 X 1000 X 200	8	982	6712.00
996 - 1616	1600 X 1600 X 200	9.5	1572	12176.00
996 - 2100	2000 X 1000 X 200	9.5	1228	9056.00
996 - 2160	2000 X 1600 X 250	10	2456	19762.00
996 - 2516	2500 X 1600 X 300	11.5	3684	30872.00
996 - 3200	3000 X 2000 X 400	13	7368	90736.00
996 - 4200	4000 X 2000 X 500	16	12280	158872.00
996 - 4250	4000 X 2500 X 500	17.5	15350	238464.00

CODE	ÖLÇÜ SIZE mm	YÜZEY DÜZLÜK DERECESİ 00 GRADE 00 FLATNESS mm	NET AĞIRLIK NET WEIGHT kg.	00 KALİTE Birim Fiyatı USD
997 - 320	300 X 200 X 50	1.8	9	136.00
997 - 330	300 X 300 X 70	1.9	19	216.00
997 - 425	400 X 250 X 70	2	21	248.00
997 - 440	400 X 400 X 70	2.3	34	400.00
997 - 640	630 X 400 X 100	2.5	77	648.00
997 - 663	630 X 630 X 100	2.5	121	1104.00
997 - 850	800 X 500 X 130	2.7	159	1152.00
997 - 960	900 X 600 X 130	2.9	215	1552.00
997 - 1063	1000 X 630 X 150	3	290	2096.00
997 - 1075	1000 X 750 X 150	3.2	345	2472.00
997 - 1100	1000 X 1000 X 150	3.5	460	3328.00
997 - 1610	1600 X 1000 X 200	4	982	7320.00
997 - 1616	1600 X 1600 X 200	4.8	1572	13200.00
997 - 2100	2000 X 1000 X 200	4.8	1228	9896.00
997 - 2160	2000 X 1600 X 250	5	2456	21440.00
997 - 2516	2500 X 1600 X 300	5.8	3684	33512.00
997 - 3200	3000 X 2000 X 400	6.5	7368	98944.00
997 - 4200	4000 X 2000 X 500	8	12280	173296.00
997 - 4250	4000 X 2500 X 500	8.8	15350	258584.00



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1044	Komparatör İç Ölçümler İçin / <i>Caliper Gauges for Inside Measurement</i>	40
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## TECLOCK JAPON MALI KOMPARATÖR SAATLERİ

TM - 110  
TM - 110 F



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
TM - 110 Kulaklı	0.01	10	<b>32.00</b>
TM - 110 F Kulaksız	0.01	10	<b>32.00</b>

KM - 121D  
KM - 121D F



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
KM - 121D Kulaklı	0.01	20	<b>65.00</b>
KM - 121D F Kulaksız	0.01	20	<b>65.00</b>

KM - 130D  
KM - 130D F



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
KM - 130D Kulaklı	0.01	30	<b>75.00</b>
KM - 130D F Kulaksız	0.01	30	<b>75.00</b>

KM - 155D  
KM - 155D F



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
KM - 155D Kulaklı	0.01	50	<b>150.00</b>
KM - 155D F Kulaksız	0.01	50	<b>150.00</b>

KM - 05100  
KM - 05100 F



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
KM - 05100 Kulaklı	0.01	100	<b>408.00</b>
KM - 05100 F Kulaksız	0.01	100	<b>408.00</b>

TM - 1201  
TM - 1201 F



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
TM - 1201 Kulaklı	0.001	1	<b>80.00</b>
TM - 1201 F Kulaksız	0.001	1	<b>80.00</b>

TM - 35  
TM - 35 F



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
TM - 35 Kulaklı	0.01	5	<b>40.00</b>
TM - 35 F Kulaksız	0.01	5	<b>40.00</b>



Kulaklı



Kulaksız ( F )



**DİJİTAL KOMPARATÖR SAATLERİ**

PC - 480



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
PC - 480	0.01	12.7	<b>310.00</b>

PC - 440



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
PC - 440	0.01	12.7	<b>442.00</b>

PC - 465



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
PC - 465	0.001	12.7	<b>755.00</b>

PC - 485



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
PC - 485	0.001	12.7	<b>490.00</b>

LT - 315



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
LT - 315	0.01	0.8	<b>72.00</b>

LT - 314



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
LT - 314	0.01	5	<b>126.00</b>

LT - 316



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
LT - 316	0.01	1	<b>175.00</b>

LT - 358



KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
LT - 358	0.001	0.2	<b>300.00</b>

LT - 370




KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
LT - 370	0.002	0.28	<b>121.00</b>

LT - 355




KOD	HASSASİYET	ÖLÇÜ SINIRI mm	Birim Fiyatı USD
LT - 355	0.002	0.28	<b>186.00</b>

**DERİNLİK KOMPARATÖR**




DM-214




DM-224

KOD	ÖLÇÜ SINIRI mm	KÖPRÜ UZUNLUĞU mm	HASSASİYET	Birim Fiyatı USD
DM-214	0-220	100	0.01	<b>208.00</b>
DM-224	0-230	200	0.01	<b>256.00</b>

**KALINLIK KOMPARATÖR**




SM-112




SM-114

KOD	ÖLÇÜ SINIRI mm	HASSASİYET	Birim Fiyatı USD
SM-112	10	0.01	<b>102.00</b>
SM-114	10	0.01	<b>130.00</b>


**İÇ ÇAP KOMPARATÖR**



IM-1




IM-4




IM-5

KOD	ÖLÇÜ SINIRI mm	HASSASİYET	Birim Fiyatı USD
IM-1	10-100	0.1	<b>787.00</b>
IM-4	10-30	0.01	<b>967.00</b>
IM-5	20-40	0.01	<b>995.00</b>

**DIŞ ÇAP KOMPARATÖR**



GM-1



GM-2

KOD	ÖLÇÜ SINIRI mm	HASSASİYET	Birim Fiyatı USD
GM-1	0-90	0.1	<b>708.00</b>
GM-2	0-90	0.1	<b>1060.00</b>



GS-719N



GS-702N

KOD	Birim Fiyatı USD
GS-719N ŞOHR A YUMUŞAK KAUCUK ÖLÇMEK İÇİN	615.00
GS-720N ŞOHR D SET PLASTİK ÖLÇMEK İÇİN	615.00



DEFLEKŞİN GEYÇ  
CRANK SHANK DIAL INDICATOR

CODE	RANGE	RESOLUTION	Birim Fiyatı USD
	60-300 mm.	0.01	265.00
	60-500 mm.	0.01	280.00



MB - B

KOD	cinsi	Birim Fiyatı USD
MB - B	TRADE ARCH MANYETİK AYAK 60 KG	35.00



MB 1040

KOD	cinsi	Birim Fiyatı USD
MB 1040	MANYETİK AYAK 60 KG	250.00



MB 1050

KOD	cinsi	Birim Fiyatı USD
MB 1050	MANYETİK AYAK 60 KG	310.00

**MEKANİK SAATLİ  
SİLİNDİR KOMPARATÖRÜ  
0.01**

ÖLÇÜ mm	HASSASİYET	Birim Fiyatı USD
6 - 10 mm	0.01	<b>545.00</b>
10 - 18 mm	0.01	<b>217.00</b>
18 - 35 mm	0.01	<b>192.00</b>
35 - 60 mm	0.01	<b>192.00</b>
50 - 150 mm	0.01	<b>222.00</b>
100 - 160 mm	0.01	<b>360.00</b>
160 - 250 mm	0.01	<b>603.00</b>
250 - 450 mm	0.01	<b>681.00</b>
400 - 600 mm	0.01	<b>1285.00</b>

**MEKANİK SAATLİ  
SİLİNDİR KOMPARATÖRÜ  
0.001**

ÖLÇÜ mm	HASSASİYET	Birim Fiyatı USD
6 - 10 mm	0.001	<b>633.00</b>
10 - 18 mm	0.001	<b>298.00</b>
18 - 35 mm	0.001	<b>274.00</b>
35 - 60 mm	0.001	<b>274.00</b>
50 - 150 mm	0.001	<b>304.00</b>
100 - 160 mm	0.001	<b>441.00</b>
160 - 250 mm	0.001	<b>684.00</b>
250 - 450 mm	0.001	<b>768.00</b>
400 - 600 mm	0.001	<b>1386.00</b>

**DİJİTAL SAATLİ  
SİLİNDİR KOMPARATÖRÜ  
0.01**

ÖLÇÜ mm	HASSASİYET	Birim Fiyatı USD
6 - 10 mm	0.01	<b>743.00</b>
10 - 18 mm	0.01	<b>505.00</b>
18 - 35 mm	0.01	<b>485.00</b>
35 - 60 mm	0.01	<b>485.00</b>
50 - 150 mm	0.01	<b>509.00</b>
100 - 160 mm	0.01	<b>618.00</b>
160 - 250 mm	0.01	<b>811.00</b>
250 - 450 mm	0.01	<b>873.00</b>

**DİJİTAL SAATLİ  
SİLİNDİR KOMPARATÖRÜ  
0.001**

ÖLÇÜ mm	HASSASİYET	Birim Fiyatı USD
6 - 10 mm	0.001	<b>920.00</b>
10 - 18 mm	0.001	<b>696.00</b>
18 - 35 mm	0.001	<b>676.00</b>
35 - 60 mm	0.001	<b>676.00</b>
50 - 150 mm	0.001	<b>700.00</b>
100 - 160 mm	0.001	<b>810.00</b>
160 - 250 mm	0.001	<b>1000.00</b>
250 - 450 mm	0.001	<b>1065.00</b>





KOD	ÖZELLİKLERİ	Birim Fiyatı USD
RS - 40	ÇARPMALI ÜSTTEN SIFIRLAMALI 4 HANELİ	19.66



KOD	ÖZELLİKLERİ	Birim Fiyatı USD
RS - 50	ÇARPMALI ÜSTTEN SIFIRLAMALI 5 HANELİ	21.73



KOD	ÖZELLİKLERİ	Birim Fiyatı USD
RS - 207 - 5	ÇARPMALI YANDAN SIFIRLAMALI 5 HANELİ	21.73



KOD	ÖZELLİKLERİ	Birim Fiyatı USD
RS - 204 - 5	ÇARPMALI YANDAN SIFIRLAMALI 5 HANELİ K.BOY	25.06



KOD	ÖZELLİKLERİ	Birim Fiyatı USD
RL - 50	DÖNMELİ ÜSTTEN SIFIRLAMALI 5 HANELİ	21.00



KOD	ÖZELLİKLERİ	Birim Fiyatı USD
BM3:10 - 5	TEKERLEKLİ UZUNLUK SAYACI ÜSTTEN SIFIRLAMALI ( 5 HANELİ	132.00

### KORİ SERTLİK ÖLÇME



KR-24A  
KR-25D

KOD	ÖZELLİKLERİ	Birim Fiyatı USD
KR-24A	ŞOHR A YUMUŞAK KAUÇUK ÖLÇMEK İÇİN	266.00
KR-25D	ŞOHR D SERT PLASTİK ÖLÇMEK İÇİN	305.00

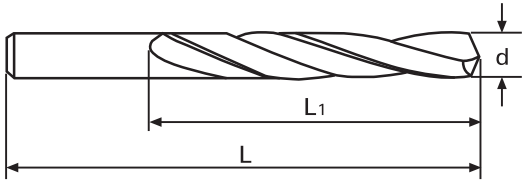


ERMAK TEKNİK MALZEME

# MIRANDA

MATKAP UÇLARI, FREZELER, RAYBALAR





Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.

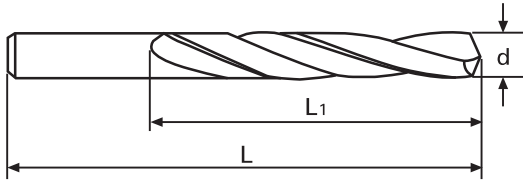


ÖLÇÜ			HSS	Altın Seri HSSE	HSS CO8
d mm	L1 mm	L mm	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
1.00	12	34	0.38	0.68	*
1.10	14	36	0.38	0.68	*
1.20	16	38	0.38	0.68	*
1.30	16	38	0.38	0.68	*
1.40	18	40	0.38	0.68	*
1.50	18	40	0.38	0.68	*
1.60	20	43	0.38	0.68	*
1.70	20	43	0.38	0.68	*
1.80	22	46	0.38	0.68	*
1.90	22	46	0.38	0.68	*
2.00	24	49	0.38	0.68	*
2.10	24	49	0.38	0.68	*
2.20	27	53	0.38	0.68	*
2.30	27	53	0.38	0.68	*
2.40	27	57	0.38	0.68	*
2.50	30	57	0.38	0.68	*
2.60	30	57	0.38	0.73	*
2.70	30	61	0.38	0.73	*
2.80	33	61	0.38	0.73	*
2.90	33	61	0.38	0.73	*
3.00	33	61	0.41	0.73	*
3.10	36	65	0.41	0.73	*
3.20	36	65	0.41	0.73	*
3.30	36	65	0.41	0.73	*
3.40	39	70	0.41	0.73	*
3.50	39	70	0.46	0.73	*
3.60	39	70	0.46	0.91	*
3.70	39	70	0.46	0.91	*
3.80	43	75	0.46	0.91	*
3.90	43	75	0.46	0.91	*
4.00	43	75	0.51	0.91	*
4.10	43	75	0.66	0.91	*
4.20	43	75	0.66	0.91	*
4.30	47	80	0.67	0.91	*
4.40	47	80	0.67	1.19	*
4.50	47	80	0.67	1.19	*
4.60	47	80	0.76	1.37	*
4.70	47	80	0.77	1.37	*
4.80	52	86	0.77	1.37	*
4.90	52	86	0.77	1.37	*

\* İşaretili ürünlerden talep halinde ithalatı yapılır.



## TAŞLANMIŞ MATKAP UCU

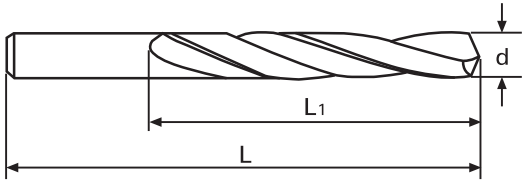


Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.



ÖLÇÜ			Altın Seri		
d mm	L1 mm	L mm	HSS Birim Fiyatı Euro	HSSE Birim Fiyatı Euro	HSS CO8 Birim Fiyatı Euro
5.00	52	86	0.77	1.37	*
5.10	52	86	0.82	1.37	*
5.20	52	86	0.82	1.37	*
5.30	52	86	0.82	1.46	*
5.40	57	93	0.82	1.46	*
5.50	57	93	0.82	1.46	*
5.60	57	93	0.98	1.78	*
5.70	57	93	0.98	1.78	*
5.80	57	93	0.98	1.78	*
5.90	57	93	1.00	1.78	*
6.00	57	93	1.00	1.78	*
6.10	63	101	1.28	2.27	*
6.20	63	101	1.28	2.27	*
6.30	63	101	1.28	2.27	*
6.40	63	101	1.28	2.27	*
6.50	63	101	1.28	2.27	*
6.60	63	101	1.50	2.72	*
6.70	63	101	1.50	2.72	*
6.80	69	109	1.53	2.72	*
6.90	69	109	1.53	2.72	*
7.00	69	109	1.53	2.72	*
7.10	69	109	1.73	3.03	*
7.20	69	109	1.73	3.03	*
7.30	69	109	1.73	3.03	*
7.40	69	109	1.73	3.03	*
7.50	69	109	1.70	3.03	*
7.60	75	117	2.10	3.74	*
7.70	75	117	2.10	3.74	*
7.80	75	117	2.10	3.74	*
7.90	75	117	2.10	3.74	*
8.00	75	117	2.18	3.74	*
8.10	75	117	2.38	4.12	*
8.20	75	117	2.38	4.12	*
8.30	75	117	2.38	4.12	*
8.40	75	117	2.38	4.12	*
8.50	75	117	2.40	4.12	*
8.60	81	125	2.65	4.55	*
8.70	81	125	2.65	4.55	*
8.80	81	125	2.65	4.55	*
8.90	81	125	2.65	4.55	*

\* İşaretili ürünlerden talep halinde ithalatı yapılır.



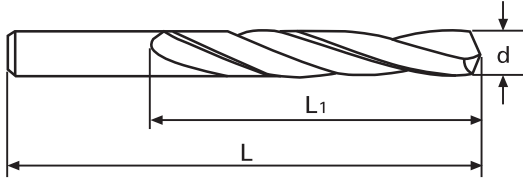
Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.



ÖLÇÜ			HSS	Altın Seri HSSE	HSS CO8
d mm	L1 mm	L mm	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
9.00	81	125	2.66	4.55	*
9.10	81	125	3.08	5.27	*
9.20	81	125	3.08	5.27	*
9.30	81	125	3.08	5.27	*
9.40	81	125	3.08	5.27	*
9.50	81	125	3.08	5.27	*
9.60	87	133	3.32	5.65	*
9.70	87	133	3.32	5.65	*
9.80	87	133	3.32	5.65	*
9.90	87	133	3.32	5.65	*
10.00	87	133	3.30	5.65	*
10.10	87	133	4.28	7.33	*
10.20	87	133	4.28	7.33	*
10.30	87	133	4.28	7.33	*
10.40	87	133	4.28	7.33	*
10.50	87	133	4.28	7.33	*
10.60	87	133	4.62	8.08	*
10.70	94	142	4.71	8.08	*
10.80	94	142	4.71	8.08	*
10.90	94	142	4.71	8.08	*
11.00	94	142	4.71	8.08	*
11.10	94	142	4.92	8.43	*
11.20	94	142	4.92	8.43	*
11.30	94	142	4.92	8.43	*
11.40	94	142	4.92	8.43	*
11.50	94	142	4.92	8.43	*
11.60	94	142	5.42	9.29	*
11.70	94	142	5.42	9.29	*
11.80	94	142	5.42	9.29	*
11.90	101	151	5.52	9.29	*
12.00	101	151	5.42	9.29	*
12.10	101	151	6.01	10.06	*
12.20	101	151	6.01	10.06	*
12.30	101	151	6.01	10.06	*
12.40	101	151	6.01	10.06	*
12.50	101	151	5.87	10.06	*
12.60	101	151	6.59	11.13	*
12.70	101	151	6.59	11.13	*
12.80	101	151	6.59	11.13	*
12.90	101	151	6.59	11.13	*

\* İşaretili ürünlerden talep halinde ithalatı yapılır.

## TAŞLANMIŞ MATKAP UCU

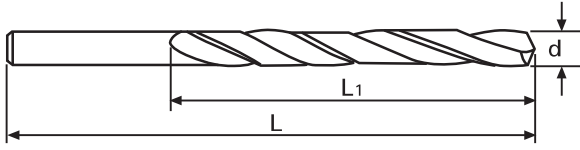


Fransa çeliği Erasteel kullanılarak, İtalyan teknolojsi ile bu mallar üretilmiştir.



ÖLÇÜ			Altın Seri		
d mm	L <sub>1</sub> mm	L mm	HSS Birim Fiyatı Euro	HSSE Birim Fiyatı Euro	HSS CO8 Birim Fiyatı Euro
13.00	101	151	6.49	11.13	*
13.10	101	151	7.58	12.75	*
13.20	101	151	7.58	12.75	*
13.30	108	160	7.58	12.75	*
13.40	108	160	7.58	12.75	*
13.50	108	160	7.44	12.75	*
13.60	108	160	8.46	16.03	*
13.70	108	160	8.46	16.03	*
13.80	108	160	8.46	16.03	*
13.90	108	160	8.46	16.03	*
14.00	108	160	8.31	16.03	*
14.10	114	169	9.53	16.03	*
14.20	114	169	9.53	16.03	*
14.30	114	169	9.53	16.03	*
14.40	114	169	9.53	16.03	*
14.50	114	169	9.35	16.03	*
14.60	114	169	8.72	16.03	*
14.70	114	169	8.72	14.67	*
14.80	114	169	8.72	14.67	*
14.90	114	169	8.72	14.67	*
15.00	114	169	8.56	14.67	*
15.10	120	178	9.81	16.50	*
15.20	120	178	9.81	16.50	*
15.30	120	178	9.81	16.50	*
15.40	120	178	9.81	16.50	*
15.50	120	178	9.63	16.50	*
15.60	120	178	11.40	19.19	*
15.70	120	178	11.40	19.19	*
15.80	120	178	11.40	19.19	*
15.90	120	178	11.40	19.19	*
16.00	120	178	11.19	19.19	*
16.50	125	184	13.93	23.41	*
17.00	125	184	15.35	25.76	*
17.50	130	191	16.34	27.04	*
18.00	130	191	17.68	30.38	*
18.50	135	198	18.78	32.20	*
19.00	135	198	19.25	33.01	*
19.50	140	205	20.05	34.37	*
20.00	140	205	20.52	35.18	*

\* İşaretli ürünlerden talep halinde ithalatı yapılır.



Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.



Altın Seri

HSS

HSSE

HSS CO8

Birim Fiyatı

Birim Fiyatı

Birim Fiyatı

Euro

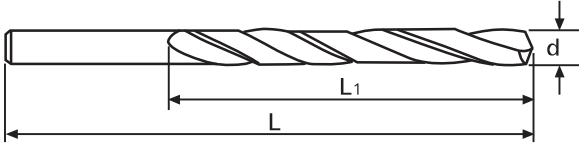
Euro

Euro

ÖLÇÜ			Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
d mm	L <sub>1</sub> mm	L mm			
1.00	12	34	1.01	*	*
1.50	18	40	1.01	*	*
2.00	56	85	0.84	1.26	*
2.50	62	95	0.86	1.26	*
3.00	66	100	0.86	1.34	*
3.20	69	106	0.92	1.34	*
3.30	69	106	0.92	1.34	*
3.50	73	112	0.92	1.34	*
3.80	78	119	0.92	1.68	*
4.00	78	119	0.92	1.68	*
4.20	78	119	1.27	1.68	*
4.50	82	126	1.27	2.20	*
5.00	87	132	1.38	2.54	*
5.50	91	139	1.55	2.71	*
6.00	91	139	1.90	3.29	*
6.50	97	148	2.39	4.20	*
7.00	102	156	2.82	5.04	*
7.50	102	156	3.25	5.60	*
8.00	109	165	4.00	6.92	*
8.50	109	165	4.20	7.62	*
9.00	115	175	4.66	8.41	*
9.50	115	175	5.44	9.76	*
10.00	121	184	5.78	10.46	*
10.50	121	184	8.17	13.56	*
11.00	128	195	8.74	14.95	*
11.50	128	195	9.14	15.59	*
12.00	134	205	10.35	17.18	*
12.50	134	205	10.70	18.60	*
13.00	134	205	11.79	20.58	*
13.50	140	214	13.23	23.58	*
14.00	140	214	14.87	29.66	*
14.50	144	220	16.88	29.66	*
15.00	144	220	15.35	27.14	*
15.50	149	227	17.42	30.53	*
16.00	149	227	19.90	35.50	*
16.50	154	235	25.13	43.31	*
17.00	154	235	27.89	47.65	*
17.50	158	241	29.79	50.03	*
18.00	158	241	32.37	56.20	*
18.50	162	247	34.47	59.57	*
19.00	162	247	35.36	61.07	*
19.50	166	254	36.89	63.59	*
20.00	166	254	37.84	65.08	*

\* İşaretili ürünlerden talep halinde ithalatı yapılır.

## UZUN BOY TAŞLANMIŞ MATKAP UCU



Fransa çeliği Erasteel kullanılarak, İtalyan teknolojsi ile bu mallar üretilmiştir.



HSS

HSSE

TiCN

TiAIN

Birim Fiyatı  
Euro

Birim Fiyatı  
Euro

Birim Fiyatı  
Euro

Birim Fiyatı  
Euro

## ÖLÇÜ

d  
mm

L1  
mm

L  
mm

2.00

85

125

1.60

\*

\*

\*

2.50

95

140

1.66

\*

\*

\*

3.00

100

150

1.72

\*

\*

\*

3.50

115

165

2.20

\*

\*

\*

4.00

120

175

3.35

\*

\*

\*

4.50

125

185

3.92

\*

\*

\*

5.00

135

195

4.40

\*

\*

\*

5.50

140

205

5.10

\*

\*

\*

6.00

140

205

5.61

\*

\*

\*

6.50

150

215

7.03

\*

\*

\*

7.00

155

225

7.60

\*

\*

\*

7.50

155

225

7.78

\*

\*

\*

8.00

165

240

9.59

\*

\*

\*

8.50

165

240

10.78

\*

\*

\*

9.00

175

250

11.53

\*

\*

\*

9.50

175

250

12.53

\*

\*

\*

10.00

185

265

14.67

\*

\*

\*

10.50

185

265

16.60

\*

\*

\*

11.00

195

280

19.08

\*

\*

\*

11.50

195

280

20.62

\*

\*

\*

12.00

205

295

22.16

\*

\*

\*

12.50

205

295

23.37

\*

\*

\*

13.00

205

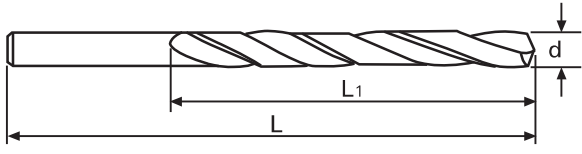
295

25.72

\*

\*

\*



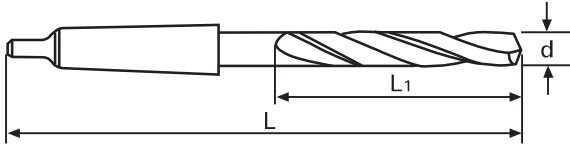
Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.



ÖLÇÜ			HSS	HSSE	TİCN	TİAIN
d mm	L <sub>1</sub> mm	L mm	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
3.00	130	190	4.15	*	*	*
3.50	145	210	5.13	*	*	*
4.00	150	220	5.95	*	*	*
4.50	160	235	7.10	*	*	*
5.00	170	245	8.98	*	*	*
5.50	180	260	9.84	*	*	*
6.00	180	260	10.57	*	*	*
6.50	190	275	12.49	*	*	*
7.00	200	290	13.86	*	*	*
7.50	200	290	14.54	*	*	*
8.00	210	305	14.68	*	*	*
8.50	210	305	14.70	*	*	*
9.00	220	320	15.30	*	*	*
9.50	220	320	15.52	*	*	*
10.00	235	340	17.54	*	*	*
10.50	235	340	19.41	*	*	*
11.00	250	365	20.80	*	*	*
11.50	250	365	21.98	*	*	*
12.00	260	375	24.00	*	*	*
12.50	260	375	25.42	*	*	*
13.00	260	375	27.68	*	*	*

\* İşaretili ürünlerden talep halinde ithalatı yapılır.





Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.

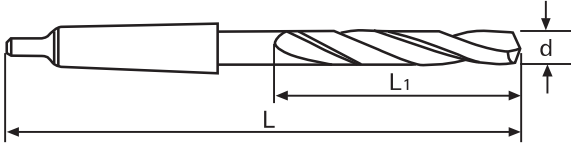


ÖLÇÜ				HSS	HSSE
d mm	L1 mm	L mm	MORS KONİK NO.	Birim Fiyatı Euro	Birim Fiyatı Euro
10.00	87	168	1	5.45	*
10.50	87	168	1	5.91	*
11.00	94	175	1	6.29	*
11.50	94	175	1	6.60	*
12.00	101	182	1	7.06	*
12.50	101	182	1	7.29	*
13.00	101	182	1	7.80	*
13.50	108	189	1	8.82	*
14.00	108	189	1	9.20	*
14.50	114	212	2	10.49	*
15.00	114	212	2	11.24	*
15.50	120	218	2	12.04	*
16.00	120	218	2	12.22	*
16.50	125	223	2	12.82	*
17.00	125	223	2	13.22	*
17.50	130	228	2	14.24	*
18.00	130	228	2	14.84	*
18.50	135	233	2	15.72	*
19.00	135	233	2	16.37	*
19.50	140	238	2	17.49	*
20.00	140	238	2	18.52	*
20.50	145	243	2	19.99	*
21.00	145	243	2	20.47	*
21.50	150	248	2	21.32	*
22.00	150	248	2	21.32	*
22.50	155	253	2	23.56	*
23.00	155	253	2	24.94	*
23.50	155	276	3	25.76	*
24.00	160	281	3	27.41	*
24.50	160	281	3	29.04	*
25.00	160	281	3	29.81	*
25.50	165	286	3	32.04	*
26.00	165	286	3	33.70	*
26.50	165	286	3	35.99	*
27.00	170	291	3	37.20	*
27.50	170	291	3	39.16	*
28.00	170	291	3	39.95	*
28.50	175	296	3	43.84	*

\* İşaretsiz ürünlerden talep halinde ithalatı yapılır.



## KONİK SAPLI MATKAP UCU



Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.



ÖLÇÜ				HSS	HSSE
d mm	L1 mm	L mm	MORS KONİK NO.	Birim Fiyatı Euro	Birim Fiyatı Euro
29.00	175	296	3	44.59	*
29.50	175	296	3	45.49	*
30.00	175	296	3	46.23	*
30.50	180	301	3	48.24	*
31.00	180	301	3	49.63	*
31.50	180	301	3	54.95	*
32.00	185	334	4	56.86	*
32.50	185	334	4	60.79	*
33.00	185	334	4	60.79	*
33.50	185	334	4	65.24	*
34.00	190	339	4	66.84	*
34.50	190	339	4	70.75	*
35.00	190	339	4	70.75	*
35.50	190	339	4	77.57	*
36.00	195	344	4	78.47	*
36.50	195	344	4	84.95	*
37.00	195	344	4	86.49	*
37.50	195	344	4	88.04	*
38.00	200	349	4	90.48	*
38.50	200	349	4	95.11	*
39.00	200	349	4	97.32	*
39.50	200	349	4	98.89	*
40.00	200	349	4	98.89	*
40.50	205	354	4	128.52	*
41.00	205	354	4	133.92	*
41.50	205	354	4	136.72	*
42.00	205	354	4	139.38	*
42.50	210	354	4	142.32	*
43.00	210	359	4	148.41	*
43.50	210	359	4	153.02	*
44.00	210	359	4	156.00	*
44.50	210	359	4	159.03	*
45.00	215	359	4	162.10	*
45.50	215	364	4	168.80	*
46.00	215	364	4	173.14	*
46.50	215	364	4	176.36	*
47.00	215	364	4	179.67	*
47.50	220	364	4	188.75	*

\* İşaretili ürünlerden talep halinde ithalatı yapılır.

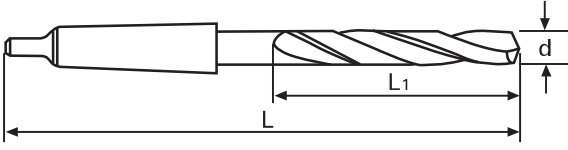


ERMAK TEKNİK MALZEME

MIRANDA

DIN 345

KONİK SAPLI MATKAP UCU



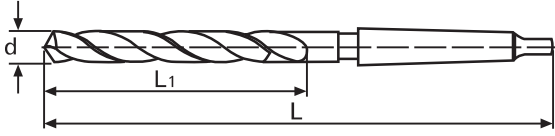
Fransa çeliği Erasteel kullanılarak, İtalyan teknolojsi ile bu mallar üretilmiştir.



ÖLÇÜ				HSS	HSSE
d mm	L1 mm	L mm	MORS KONİK NO.	Birim Fiyatı Euro	Birim Fiyatı Euro
48.00	220	369	4	190.25	*
48.50	220	369	4	195.50	*
49.00	220	369	4	199.00	*
49.50	220	369	4	203.00	*
50.00	225	369	4	208.71	*
50.50	225	412	4	210.17	*
51.00	225	412	5	228.85	*
52.00	225	412	5	231.15	*
53.00	230	412	5	242.82	*
54.00	230	417	5	247.83	*
55.00	230	417	5	342.13	*
56.00	235	417	5	342.13	*
57.00	235	422	5	362.25	*
58.00	235	422	5	382.37	*
59.00	235	422	5	382.37	*
60.00	240	422	5	383.00	*
61.00	240	427	5	383.00	*
62.00	240	427	5	412.50	*
63.00	245	427	5	410.00	*
64.00	245	432	5	437.50	*
65.00	245	432	5	480.00	*
66.00	245	432	5	480.55	*
67.00	245	432	5	480.55	*
68.00	250	437	5	500.00	*
69.00	250	437	5	550.00	*
70.00	250	437	5	550.00	*
71.00	250	437	5	565.00	*
72.00	255	442	5	575.00	*
73.00	255	442	5	575.00	*
74.00	255	442	5	587.50	*
75.00	255	442	5	613.00	*

\* İşaretili ürünlerden talep halinde ithalatı yapılır.

## KONİK SAPLI UZUN MATKAP UCU

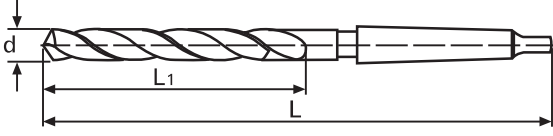


Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.



ÖLÇÜ				HSS	TICN HSSE	TIAIN HSS CO8
d mm	L <sub>1</sub> mm	L mm	MORS KONİK NO.	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
5.00	74	155	1	13.10	*	*
5.50	80	161	1	13.10	*	*
6.00	80	161	1	13.10	*	*
6.50	86	167	1	13.10	*	*
7.00	93	174	1	13.10	*	*
7.50	93	174	1	13.10	*	*
8.00	100	181	1	13.10	*	*
8.50	100	181	1	13.10	*	*
9.00	107	188	1	13.60	*	*
9.50	107	188	1	13.60	*	*
10.00	116	197	1	14.25	*	*
10.50	116	197	1	14.25	*	*
11.00	125	206	1	14.90	*	*
11.50	125	206	1	14.90	*	*
12.00	134	215	1	17.43	*	*
12.50	134	215	1	18.88	*	*
13.00	134	215	1	20.80	*	*
13.50	142	223	1	21.60	*	*
14.00	142	223	1	21.60	*	*
14.50	147	245	2	22.23	*	*
15.00	147	245	2	22.23	*	*
15.50	153	251	2	22.75	*	*
16.00	153	251	2	22.75	*	*
16.50	159	257	2	23.65	*	*
17.00	159	257	2	24.75	*	*
17.50	165	263	2	26.85	*	*
18.00	165	263	2	28.08	*	*
18.50	171	269	2	30.38	*	*
19.00	171	269	2	31.73	*	*
19.50	177	275	2	34.85	*	*
20.00	177	275	2	36.30	*	*
20.50	184	282	2	41.55	*	*
21.00	184	282	2	41.55	*	*
21.50	191	289	2	46.53	*	*
22.00	191	289	2	46.53	*	*
22.50	198	296	2	52.30	*	*
23.00	198	296	2	52.30	*	*
23.50	198	319	3	57.13	*	*

\* İşaretli ürünlerden talep halinde ithalatı yapılır.



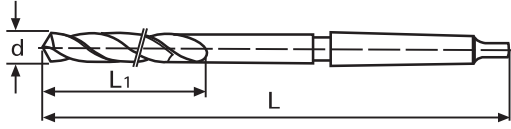
Fransa çeliği Erasteel kullanılarak, İtalyan teknolojsi ile bu mallar üretilmiştir.



ÖLÇÜ				HSS	TICN HSSE	TIAIN HSS CO8
d mm	L <sub>1</sub> mm	L mm	MORS KONİK NO.	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
24.00	206	327	3	59.43	*	*
24.50	206	327	3	64.05	*	*
25.00	206	327	3	64.05	*	*
25.50	214	335	3	71.48	*	*
26.00	214	335	3	71.48	*	*
26.50	214	335	3	77.13	*	*
27.00	222	343	3	79.98	*	*
27.50	222	343	3	85.00	*	*
28.00	222	343	3	85.00	*	*
28.50	230	351	3	94.50	*	*
29.00	230	351	3	94.50	*	*
29.50	230	351	3	100.63	*	*
30.00	230	351	3	100.63	*	*
30.50	239	360	3	111.68	*	*
31.00	239	360	3	111.68	*	*
31.50	239	360	3	117.85	*	*
32.00	248	397	4	136.05	*	*
32.50	248	397	4	144.08	*	*
33.00	248	397	4	158.60	*	*
33.50	248	397	4	167.23	*	*
34.00	257	406	4	172.20	*	*
34.50	257	406	4	181.35	*	*
35.00	257	406	4	181.35	*	*
35.50	257	406	4	190.75	*	*
36.00	267	416	4	196.88	*	*
36.50	267	416	4	206.85	*	*
37.00	267	416	4	206.85	*	*
37.50	267	416	4	217.10	*	*
38.00	277	426	4	223.88	*	*
38.50	277	426	4	246.93	*	*
39.00	277	426	4	246.93	*	*
39.50	277	426	4	258.30	*	*
40.00	277	426	4	258.30	*	*

\* İşaretili ürünlerden talep halinde ithalatı yapılır.

## KONİK SAPLI ÇOK UZUN MATKAP UCU

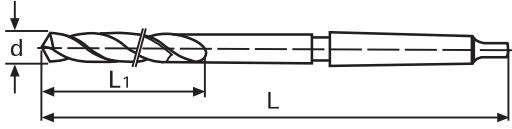


Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.



ÖLÇÜ				HSS	TICN HSSE	TIAN HSS CO8
d mm	L <sub>1</sub> mm	L mm	MORS KONİK NO.	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
8.00	165	265	1	22.80	*	*
8.50	165	265	1	22.80	*	*
9.00	175	275	1	23.67	*	*
9.50	175	275	1	23.67	*	*
10.00	185	285	1	24.78	*	*
10.50	185	285	1	24.78	*	*
11.00	195	300	1	25.92	*	*
11.50	195	300	1	25.92	*	*
12.00	205	310	1	30.30	*	*
12.50	205	310	1	32.82	*	*
13.00	205	310	1	36.21	*	*
13.50	220	325	1	40.11	*	*
14.00	220	325	1	42.81	*	*
14.50	220	340	2	31.53	*	*
15.00	220	340	2	33.12	*	*
15.50	230	355	2	36.09	*	*
16.00	230	355	2	37.83	*	*
16.50	230	355	2	41.16	*	*
17.00	230	355	2	43.08	*	*
17.50	245	370	2	46.74	*	*
18.00	245	370	2	48.84	*	*
18.50	245	370	2	52.86	*	*
19.00	245	370	2	55.17	*	*
19.50	260	385	2	60.63	*	*
20.00	260	385	2	63.15	*	*
20.50	260	385	2	72.30	*	*
21.00	260	385	2	72.30	*	*
21.50	270	405	2	80.97	*	*
22.00	270	405	2	80.97	*	*
22.50	270	405	2	91.02	*	*
23.00	270	405	2	91.02	*	*
23.50	270	425	3	99.42	*	*
24.00	290	440	3	103.41	*	*
24.50	290	440	3	111.42	*	*
25.00	290	440	3	111.42	*	*
25.50	290	440	3	124.38	*	*
26.00	290	440	3	124.38	*	*
26.50	290	440	3	134.19	*	*
27.00	305	460	3	139.17	*	*
27.50	305	460	3	147.90	*	*
28.00	305	460	3	147.90	*	*
28.50	305	460	3	164.40	*	*
29.00	305	460	3	164.40	*	*
29.50	305	460	3	175.08	*	*
30.00	305	460	3	175.08	*	*
31.00	320	480	3	194.31	*	*

\* İşaretli ürünlerden talep halinde ithalatı yapılır.



Fransa çeliği Erasteel kullanılarak, İtalyan teknolojsi ile bu mallar üretilmiştir.

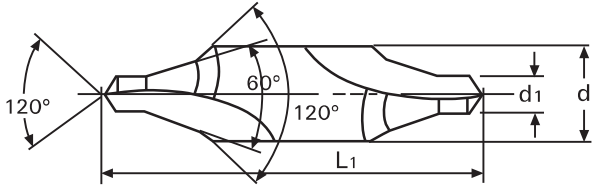


ÖLÇÜ				HSS	TICN HSSE	TIAIN HSS CO8
d mm	L <sub>1</sub> mm	L mm	MORS KONİK NO.	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
8.00	210	330	1	34.23	*	*
8.50	210	330	1	34.23	*	*
9.00	220	345	1	35.52	*	*
9.50	220	345	1	35.52	*	*
10.00	235	360	1	37.20	*	*
10.50	235	360	1	37.20	*	*
11.00	250	375	1	38.85	*	*
11.50	250	375	1	38.85	*	*
12.00	260	395	1	45.45	*	*
12.50	260	395	1	49.26	*	*
13.00	260	395	1	54.30	*	*
13.50	275	410	1	60.18	*	*
14.00	275	410	1	64.20	*	*
14.50	275	425	2	47.31	*	*
15.00	275	425	2	49.65	*	*
15.50	295	445	2	50.52	*	*
16.00	295	445	2	52.98	*	*
16.50	295	445	2	57.60	*	*
17.00	295	445	2	60.30	*	*
17.50	310	465	2	65.43	*	*
18.00	310	465	2	68.37	*	*
18.50	310	465	2	74.01	*	*
19.00	310	465	2	77.25	*	*
19.50	325	490	2	84.87	*	*
20.00	325	490	2	88.41	*	*
20.50	325	490	2	101.19	*	*
21.00	325	490	2	101.19	*	*

\* İşaretili ürünlerden talep halinde ithalatı yapılır.

## DIN 333 A ve DIN 333 B

## PUNTA MATKABI



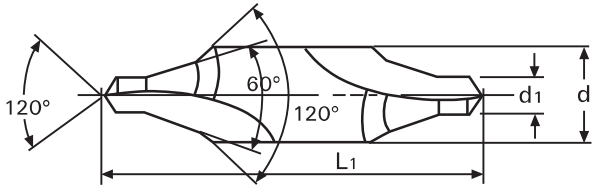
Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.



## DIN 333 A

ÖLÇÜ			HSS	HSSE	TiCN	TiAIN
d1 mm	d mm	L1 mm	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
1.00	3.15	31.50	1.18	*	*	*
1.25	3.15	31.50	1.18	*	*	*
1.60	4.00	35.50	1.35	*	*	*
2.00	5.00	40.00	1.38	*	*	*
2.50	6.30	45.00	1.50	*	*	*
3.15	8.00	50.00	2.04	*	*	*
4.00	10.00	56.00	2.85	*	*	*
5.00	12.50	63.00	4.23	*	*	*
6.30	16.00	71.00	7.91	*	*	*
8.00	20.00	83.00	11.31	*	*	*

\* İşaretili ürünlerden talep halinde ithalatı yapılır.



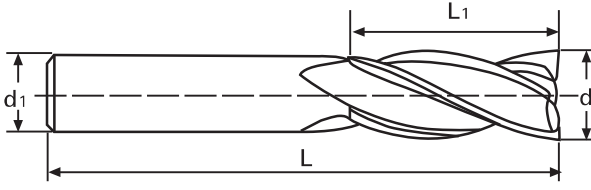
Fransa çeliği erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.



## DIN 333 B

ÖLÇÜ			HSS	HSSE	TiCN	TiAIN
d1 mm	d mm	L1 mm	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
1.00	4.00	35.50	2.47	3.97	*	*
1.25	5.00	40.00	2.50	4.06	*	*
1.60	6.30	45.00	2.76	4.46	*	*
2.00	8.00	50.00	3.77	5.98	*	*
2.50	10.00	56.00	5.29	8.40	*	*
3.15	11.20	60.00	7.76	12.36	*	*
4.00	14.00	67.00	12.39	18.34	*	*
5.00	18.00	75.00	17.80	28.35	*	*
6.30	20.00	80.00	18.69	29.76	*	*
8.00	25.00	100.00	28.95	*	*	*

\* İşaretili ürünlerden talep halinde ithalatı yapılır.



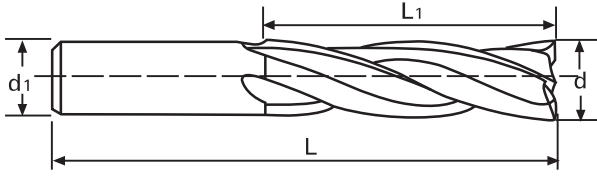
Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.

ÖLÇÜ					HSS	HSSE	HSS CO8	TiCN	TiAlN
d mm	d1 mm	L1 mm	L mm	Z	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
3	6	8	52	4	4.65	5.15	6.38	*	*
4	6	11	55	4	4.65	5.15	6.38	*	*
5	6	13	57	4	4.65	5.15	6.38	*	*
6	6	13	57	4	4.65	5.15	6.38	*	*
7	10	16	66	4	5.29	5.87	6.95	*	*
8	10	19	69	4	5.29	5.87	6.95	*	*
9	10	19	69	4	6.66	7.40	8.87	*	*
10	10	22	72	4	6.35	7.05	8.87	*	*
11	12	22	79	4	7.27	8.08	9.72	*	*
12	12	26	83	4	7.27	8.08	9.72	*	*
13	12	26	83	4	10.20	11.34	14.54	*	*
14	12	26	83	4	10.72	11.93	14.54	*	*
15	16	26	83	4	13.25	14.74	18.02	*	*
16	16	32	92	4	12.66	14.09	20.13	*	*
17	16	32	92	4	13.94	15.52	21.10	*	*
18	16	32	92	4	14.86	16.54	23.71	*	*
19	20	38	104	4	17.29	19.26	26.30	*	*
20	20	38	104	4	18.34	20.43	29.41	*	*
21	20	38	104	4	20.26	22.52	31.76	*	*
22	20	38	104	4	25.96	28.87	41.07	*	*
23	20	38	104	4	33.27	37.03	53.02	*	*
24	25	45	121	4	33.27	37.03	53.02	*	*
25	25	45	121	4	33.27	37.03	53.02	*	*
26	25	45	121	5	37.45	41.70	56.71	*	*
28	25	45	121	5	43.62	48.55	65.84	*	*
30	25	45	121	5	48.67	54.19	73.66	*	*
32	32	53	121	6	54.82	61.05	83.17	*	*
34	32	53	133	6	65.15	72.71	95.83	*	*
35	32	53	133	6	75.23	83.95	110.65	*	*
36	32	53	133	6	75.23	83.95	110.65	*	*
38	40	63	155	6	85.76	95.70	126.14	*	*
40	40	63	155	6	96.58	107.78	142.06	*	*
42	40	63	155	6	109.28	121.96	160.74	*	*

\* İşaretili ürünlerden talep halinde ithalatı yapılır.



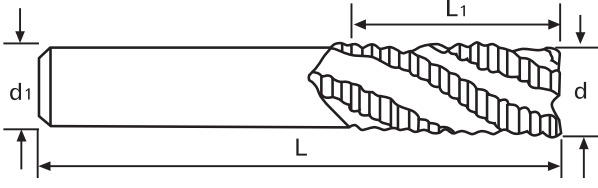
## PARMAK FREZE UZUN BOY



Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.

ÖLÇÜ					HSS	HSSE	HSS CO8	TiCN	TiAIN
d mm	d1 mm	L1 mm	L mm	Z	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
3	6	12	56	4	6.57	7.27	8.94	*	*
4	6	19	63	4	6.57	7.27	8.94	*	*
5	6	24	68	4	6.57	7.27	8.94	*	*
6	6	24	68	4	6.57	7.27	8.94	*	*
7	10	30	80	4	7.47	8.27	9.73	*	*
8	10	38	88	4	7.47	8.27	9.73	*	*
9	10	38	88	4	9.39	10.42	12.42	*	*
10	10	45	95	4	8.95	9.93	12.42	*	*
11	12	45	102	4	10.24	11.37	13.60	*	*
12	12	53	110	4	10.24	11.37	13.60	*	*
13	12	53	110	4	15.07	16.76	20.35	*	*
14	12	53	110	4	14.34	15.95	20.35	*	*
15	16	53	110	4	18.56	20.65	25.23	*	*
16	16	63	123	4	17.74	19.74	28.18	*	*
17	16	63	123	4	19.52	21.73	29.54	*	*
18	16	63	123	4	20.81	23.17	33.20	*	*
19	16	63	123	4	24.22	26.97	36.83	*	*
20	20	75	141	4	25.69	28.61	41.17	*	*
21	20	75	141	4	29.36	32.68	44.47	*	*
22	20	75	141	4	35.90	39.98	57.50	*	*
23	20	75	141	4	48.53	54.07	74.23	*	*
24	25	90	166	4	46.14	51.403	74.23	*	*
25	25	90	166	4	46.14	51.403	74.23	*	*
26	25	90	166	5	52.00	57.947	79.39	*	*
28	25	90	166	5	60.30	67.198	92.17	*	*
30	25	90	166	5	67.37	75.088	103.12	*	*
32	32	106	186	6	75.97	84.685	116.44	*	*
34	32	106	186	6	91.22	101.80	134.17	*	*
35	32	106	186	6	105.33	117.54	154.91	*	*
36	32	106	186	6	105.33	117.54	176.59	*	*
38	40	125	217	6	120.06	133.99	198.88	*	*
40	40	125	217	6	135.22	150.90	225.04	*	*
42	40	125	217	6	153.00	170.74	252.73	*	*

\* İşaretsiz ürünlerden talep halinde ithalatı yapılır.



Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.

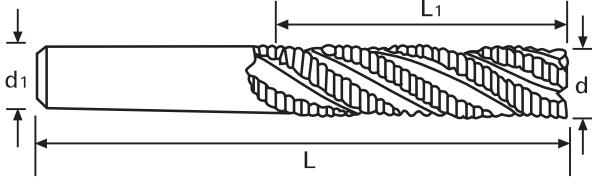


BNC Form

ÖLÇÜ					HSS	HSSE	HSS CO8	TİCN	TIAIN
d mm	d1 mm	L1 mm	L mm	Z	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
6	6	13	57	4	9.75	11.14	12.94	*	*
7	10	16	66	4	10.58	12.09	14.08	*	*
8	10	19	69	4	10.58	12.09	14.08	*	*
9	10	19	69	4	13.45	15.38	18.02	*	*
10	10	22	72	4	13.45	15.38	18.02	*	*
11	12	22	79	4	13.99	16.00	19.74	*	*
12	12	26	83	4	14.71	16.82	19.74	*	*
13	12	26	83	4	21.81	24.97	29.49	*	*
14	12	26	83	4	21.81	24.97	29.49	*	*
15	16	26	83	4	24.41	27.94	34.74	*	*
16	16	32	92	4	28.62	32.77	38.77	*	*
17	16	32	92	4	28.52	32.66	40.68	*	*
18	16	32	92	4	33.71	38.60	45.75	*	*
19	20	38	104	4	35.48	40.64	50.72	*	*
20	20	38	104	4	39.62	45.38	56.69	*	*
21	20	38	104	4	43.22	49.44	61.20	*	*
22	20	38	104	4	58.55	67.02	79.17	*	*
23	20	38	104	4	71.69	82.09	102.31	*	*
24	25	45	121	4	71.69	82.09	102.31	*	*
25	25	45	121	4	71.61	81.99	102.19	*	*
26	25	45	121	5	76.63	87.76	109.44	*	*
28	25	45	121	5	89.13	102.04	127.08	*	*
30	25	45	121	5	99.59	114.03	142.18	*	*
32	32	53	121	6	112.28	128.59	160.50	*	*
34	32	53	133	6	*	*	*	*	*
35	32	53	133	6	*	*	*	*	*
36	32	53	133	6	*	*	*	*	*
38	40	63	155	6	*	*	*	*	*
40	40	63	155	6	*	*	*	*	*
42	40	63	155	6	*	*	*	*	*

\* İşaretsiz ürünlerden talep halinde ithalatı yapılır.

## KABATALAŞ PARMAK FREZE UZUN BOY



Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.



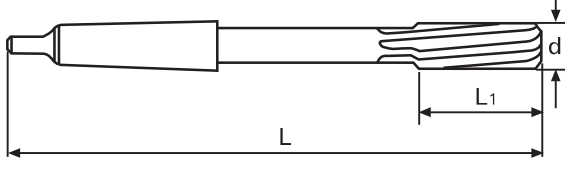
BNC Form

ÖLÇÜ					HSS	HSSE	HSS CO8	TiCN	TiAlN
d mm	d1 mm	L1 mm	L mm	Z	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
6	6	24	68	4	13.71	15.65	18.12	*	*
7	10	30	80	4	14.90	17.01	19.74	*	*
8	10	38	88	4	14.90	17.01	19.74	*	*
9	10	38	88	4	18.89	21.59	25.22	*	*
10	10	45	95	4	17.97	20.54	25.22	*	*
11	12	45	102	4	20.65	23.61	27.63	*	*
12	12	53	110	4	19.64	22.45	27.63	*	*
13	12	53	110	4	30.60	35.02	41.29	*	*
14	12	53	110	4	29.10	33.30	41.29	*	*
15	16	53	110	4	35.94	41.15	48.62	*	*
16	16	63	123	4	39.09	43.61	54.28	*	*
17	16	63	123	4	42.01	48.11	56.94	*	*
18	16	63	123	4	44.86	51.37	64.05	*	*
19	16	63	123	4	52.28	59.88	71.02	*	*
20	20	75	141	4	57.63	66.01	53.97	*	*
21	20	75	141	4	63.20	72.37	85.69	*	*
22	20	75	141	4	77.49	88.76	110.84	*	*
23	20	75	141	4	99.92	114.36	135.10	*	*
24	25	90	166	4	99.92	114.36	143.22	*	*
25	25	90	166	4	99.81	114.36	143.06	*	*
26	25	90	166	5	106.85	122.42	153.22	*	*
28	25	90	166	5	123.99	142.08	177.91	*	*
30	25	90	166	5	138.63	158.87	199.05	*	*
32	32	106	186	6	156.40	179.24	224.70	*	*
34	32	106	186	6	*	*	*	*	*
35	32	106	186	6	*	*	*	*	*
36	32	106	186	6	*	*	*	*	*
38	40	125	217	6	*	*	*	*	*
40	40	125	217	6	*	*	*	*	*
42	40	125	217	6	*	*	*	*	*

\* İşaretsiz ürünlerden talep halinde ithalatı yapılır.



## MORS KONİK SAPLI MAKİNA RAYBASI



Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.

H7



HELIX  
HSS

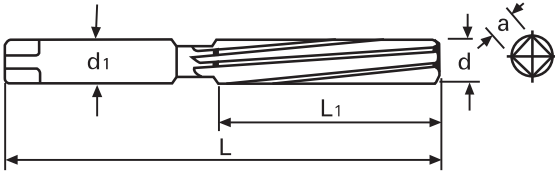
HELIX  
HSSE

HELIX  
TiCN

HELIX  
TiAlN

ÖLÇÜ				Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
d mm	L <sub>1</sub> mm	L mm	MK	Euro	Euro	Euro	Euro
6.00	26	138	1	11.81	*	*	*
7.00	31	150	1	12.65	*	*	*
8.00	33	156	1	13.47	*	*	*
9.00	36	162	1	14.12	*	*	*
10.00	38	168	1	16.91	*	*	*
11.00	41	175	1	19.01	*	*	*
12.00	44	182	1	20.30	*	*	*
13.00	44	182	1	21.53	*	*	*
14.00	47	189	1	22.90	*	*	*
15.00	50	204	2	26.15	*	*	*
16.00	52	210	2	28.41	*	*	*
17.00	54	214	2	29.02	*	*	*
18.00	56	219	2	31.14	*	*	*
19.00	58	223	2	33.43	*	*	*
20.00	60	228	2	37.07	*	*	*
21.00	62	232	2	40.01	*	*	*
22.00	64	237	2	43.14	*	*	*
23.00	66	241	2	47.39	*	*	*
24.00	68	268	3	62.32	*	*	*
25.00	68	268	3	64.29	*	*	*
26.00	70	273	3	73.09	*	*	*
28.00	71	277	3	79.07	*	*	*
29.00	73	281	3	86.74	*	*	*
30.00	73	281	3	87.55	*	*	*
31.00	75	285	3	*	*	*	*
32.00	77	317	4	115.19	*	*	*

\* İşaretsiz ürünlerden talep halinde ithalatı yapılır.



Fransa çeliği Erasteel kullanılarak, İtalyan teknolojisi ile bu mallar üretilmiştir.

H7

HELIX  
HSS

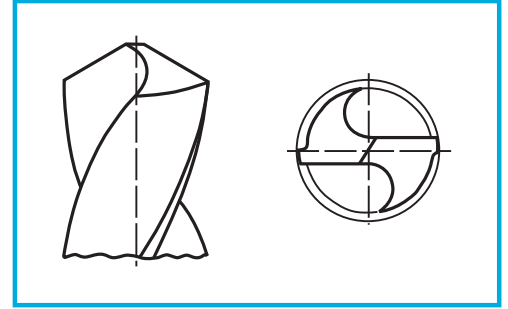
ÖLÇÜ				Birim Fiyatı
d mm	d1 mm	L1 mm	L mm	Euro
2.00	1.6	25	50	*
3.00	2.2	31	62	8.54
3.50	2.8	35	71	8.54
4.00	4.0	38	76	10.06
4.50	4.5	41	81	10.06
5.00	5.0	44	87	10.64
5.50	5.5	47	93	11.11
6.00	6.0	47	100	11.66
6.50	6.5	50	107	12.05
7.00	7.0	54	115	12.40
8.00	8.0	58	115	13.24
9.00	9.0	62	124	13.89
10.00	10.0	66	133	16.18
11.00	11.0	71	142	17.20
12.00	12.0	76	152	18.54
13.00	13.0	76	152	20.51
14.00	14.0	81	163	21.77
15.00	15.0	81	163	23.58
16.00	16.0	87	175	25.29
17.00	17.0	87	175	27.36
18.00	18.0	93	188	30.04
19.00	19.0	93	188	34.48
20.00	20.0	100	201	35.05

\* İşaretili ürünlerden talep halinde ithalatı yapılır.



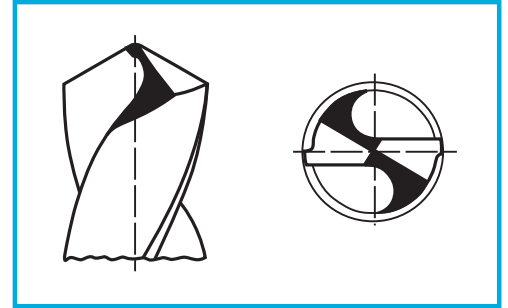
### 1. GENERAL PURPOSE DRILL

The 118° drill point is the most commonly used drill point. It will give satisfactory results in a wide variety of materials. This point style is supplied on all of our standard special drills unless specified otherwise except Spot Drills.



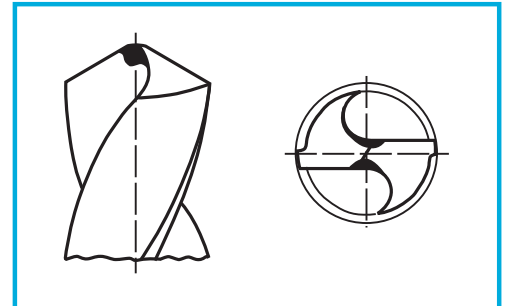
### 2. SPLIT POINT

118° or 135° split points are self-centering drill points that require less torque and thrust in hand or machine drilling. This point helps break up chips in deep hole drilling and is an excellent choice when used on drills for CNC equipment.



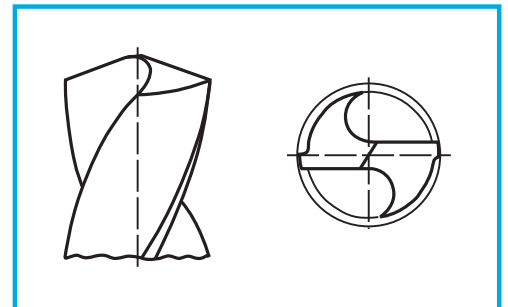
### 3. NOTCH THINNED POINT

This particular point style was developed to be used in heavy duty drilling applications. It produces excellent results in the drilling of high tensile alloys and steel forgings.



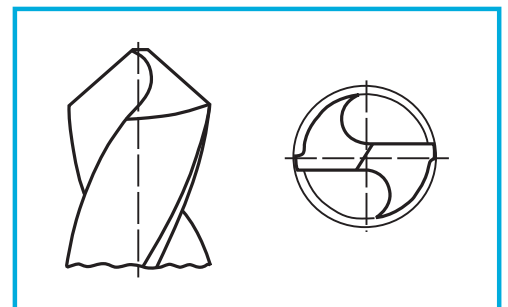
### 4. 135° POINT

Since the 135° drill point has a short cutting lip than a conventional 118° point and has less lip relief, it has the needed strength to drill tough, hard materials. This point style can reduce or minimize the burr on breakthrough on many applications.



### 5. 90° POINT

The 90° drill point angle is most commonly used in wood, plastic and low density non-ferrous metals. This point will dramatically reduce cracking in drilling plastics. This point is also excellent for accurate spotting. All our standard spot drills are manufactured with this point style.







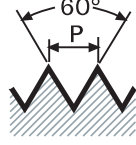
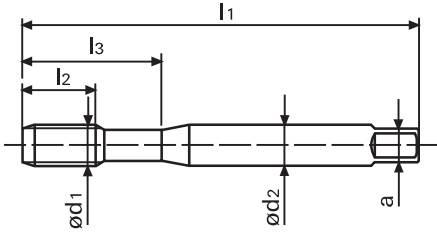
ERMAK TEKNİK MALZEME



# YÜKSEK PERFORMANSLI MAKİNA KILAVUZLARI HSSE

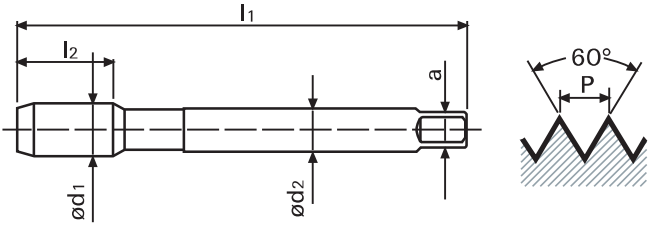


## METRİK NORMAL DIŞ MAKİNA KILAVUZLARI



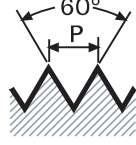
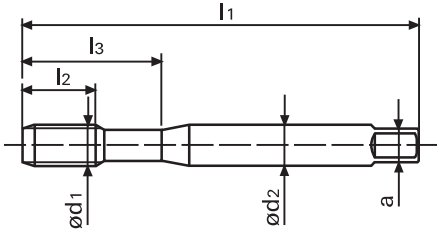
Uygun Kullanım Yeri	FORMU	C	C TiN	C TiCN	C	C TiCN	C (SOL)
<b>800</b> : Yumuşak imalat çeliği ve tornalık malzeme için	KULLANIM YERİ	800	800	1400	GG	GG	800
<b>1400</b> : Mukavemeti 1000 Pa≤Rm≤1400 Mpa olan zor işlenen 44HRC ye kadar ısıtılma tabii tutulan çelik için	DELİK TİPİ						
<b>GG</b> : Dökme demir ve pik demir için	KALİTESİ	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
	AĞIZ ŞEKLİ	C/2P	C/2P	C/2P	C/2P	C/2P	C/2P
	TOLERANSI	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)

ÖLÇÜ								Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
M	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	ø d <sub>2</sub>	a		Euro	Euro	Euro	Euro	Euro	Euro
M 2	0.4	45	8		2.8	2.1	1.6	10.78					
M 2.5	0.45	50	9		2.8	2.1	2.05	10.78					
M 3	0.5	56	10	18	3.5	2.7	2.5	5.37	8.77		6.94	12.92	8.12
M 3.5	0.6	56	12	20	4	3	2.9	6.39			8.50	15.47	10.17
M 4	0.7	63	12	21	4.5	3.4	3.3	5.34	8.77	16.50	6.94	12.92	8.12
M 4.5	0.75	70	14	25	6	4.9	3.8	8.74			11.32	21.01	
M 5	0.8	70	14	25	6	4.9	4.2	5.71	9.32	11.93	7.34	13.74	8.65
M 6	1	80	18	30	6	4.9	5	5.71	9.32	12.34	7.34	13.74	8.65
M 7	1	80	18	30	7	5.5	6	9.15			11.87	22.13	13.86
M 8	1.25	90	20	35	8	6.2	6.8	6.90	11.42	14.86	9.04	16.76	10.54
M 9	1.25	90	20	35	9	7	7.8	11.66			15.13	28.19	17.67
M 10	1.5	100	20	39	10	8	8.5	8.84	14.59	19.18	11.49	21.35	11.36

**METRİK NORMAL DIŞ MAKİNA KILAVUZLARI**


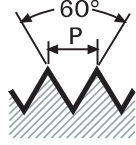
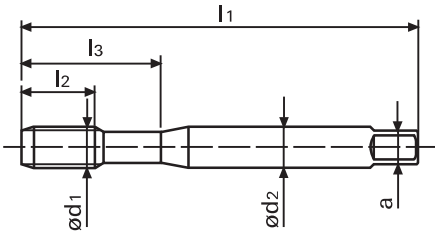
<b>Uygun Kullanım Yeri</b>  <b>800</b> : Yumuşak imalat çeliği ve tornalık malzeme için  <b>1400</b> : Mukavemeti 1000 Pa≤Rm≤1400 Mpa olan zor işlenen 44HRC ye kadar ısıl işleme tabi tutulan çelik için  <b>GG</b> : Dökme demir ve pik demir için	FORMU	C	C TİN	C TİCN	C	C TİCN	C (SOL)	
	KULLANIM YERİ	800	800	1400	GG	GG	800	
	DELİK TİPİ							
	KALİTESİ	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	
	AĞIZ ŞEKLİ	C/2P	C/2P	C/2P	C/2P	C/2P	C/2P	
	TOLERANSI	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	

ÖLÇÜ							Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
M	P	l <sub>1</sub>	l <sub>2</sub>	ø d <sub>2</sub>	a		Euro	Euro	Euro	Euro	Euro	Euro
M 4	0.7	63	13	2.8	2.1	3.3	5.78				7.65	8.73
M 5	0.8	70	16	3.5	2.7	4.2	6.12				8.13	15.44
M 6	1	80	19	4.5	3.4	5	6.12				8.13	15.44
M 8	1.25	90	22	6	4.9	6.8	7.45				9.89	18.56
M 10	1.5	100	24	7	5.5	8.5	9.52				12.65	23.66
M 11	1.5	100	24	7	5.5	9.5						23.33
M 12	1.75	110	29	9	7	10.2	11.66	17.48	25.57	15.13	30.57	17.67
M 14	2	110	30	11	9	12	15.71	25.77	34.65	19.96	40.12	23.83
M 16	2	110	32	12	9	14	16.90	28.46	37.23	21.49	43.59	25.67
M 18	2.5	125	34	14	11	15.5	23.12	56.44	52.09	45.05	59.13	35.14
M 20	2.5	140	34	16	12	17.5	23.46	62.05	52.60	47.63	65.01	37.35
M 22	2.5	140	34	18	14.5	19.5	29.89		66.33			45.02
M 24	3	160	38	18	14.5	21	31.01		71.20			46.74
M 27	3	160	38	20	16	24	41.65					86.59
M 30	3.5	180	45	22	18	26.5	59.53					115.74
M 33	3.5	180	50	25	20	29.5	115.03					
M 36	4	200	56	28	22	32	156.37					
M 39	4	200	60	32	24	35	187.65					
M 42	4.5	200	60	32	24	37.5	187.65					
M 45	4.5	220	85	36	29	40.5	187.65					
M 48	5	250	70	36	29	43	198.63					
M 52	5	250	70	40	32	47	228.21					



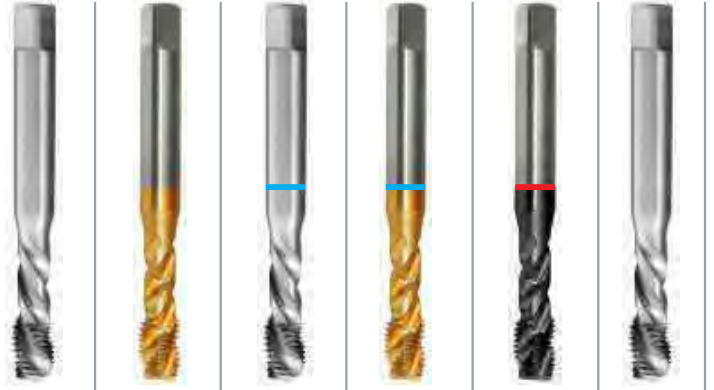
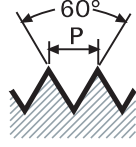
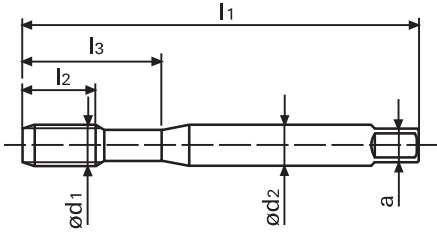
Uygun Kullanım Yeri	FORMU	B	B TiN	B	B TiN	B TiCN
<b>800</b> : Yumuşak imalat çeliği ve tornalık malzeme için	KULLANIM YERİ	800	800	INOX	INOX	FAN
<b>INOX</b> : Paslanmaz ve aside dayanıklı çelik için	DELİK TİPİ					
<b>FAN</b> : Mukavemeti 800 Mpa Rm-1200 MPa olan ve ısıtılma işlemiyle 38 HRC'ye ıslah edilen soğuk iş takım çeliği ve zor işlenebilen çelik için	KALİTESİ	HSSE	HSSE	HSSE	HSSE	HSSE
	AĞIZ ŞEKLİ	B/4P	B/4P	B/4P	B/4P	B/4P
	TOLERANSI	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)

ÖLÇÜ								Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
M	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	ø d <sub>2</sub>	a		Euro	Euro	Euro	Euro	Euro
M 3	0.5	56	10	18	3.5	2.7	2.5	7.00	10.78	9.08	13.12	15.98
M 3.5	0.6	56	12	20	4	3	2.9	8.43		10.88	15.81	
M 4	0.7	63	12	21	4.5	3.4	3.3	7.00	10.78	9.08	13.12	16.19
M 4.5	0.75	70	14	25	6	4.9	3.8	11.32		14.62	21.22	
M 5	0.8	70	14	25	6	4.9	4.2	7.48	11.59	9.76	14.11	17.48
M 6	1	80	18	30	6	4.9	5	7.51	11.59	9.76	14.11	18.06
M 7	1	80	18	30	7	5.5	6	11.87		15.40	22.44	
M 8	1.25	90	20	35	8	6.2	6.8	9.15	14.11	11.87	17.24	21.59
M 9	1.25	90	20	35	9	7	7.8	19.48		15.57	22.61	
M 10	1.5	100	20	39	10	8	8.5	11.83	18.36	15.37	22.30	29.10

**METRİK NORMAL DIŞ MAKİNA KILAVUZLARI**


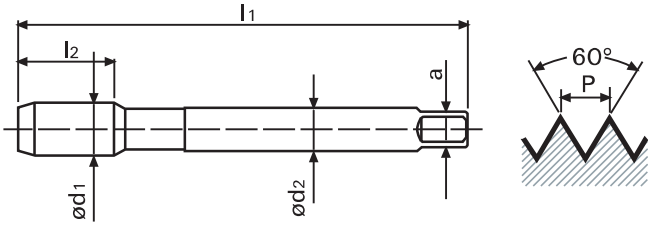
Uygun Kullanım Yeri							FORMU	B	B TiN	B	B TiN	B TiCN
<b>800</b> : Yumuşak imalat çeliği ve tornalık malzeme için <b>INOX</b> : Paslanmaz ve aside dayanıklı çelik için <b>FAN</b> : Mukavemeti 800 Mpa Rm-1200 MPa olan ve ısıtılma işlemle 38 HRC'ye ıslah edilen soğuk iş takım çeliği ve zor işlenebilen çelik için							KULLANIM YERİ	800	800	INOX	INOX	FAN
							DELİK TİPİ					
							KALİTESİ	HSSE	HSSE	HSSE	HSSE	HSSE
							AĞIZ ŞEKLİ	B/4P	B/4P	B/4P	B/4P	B/4P
							TOLERANSI	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)
ÖLÇÜ							Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	
M ø d1	P	l1	l2	ø d2	a		Euro	Euro	Euro	Euro	Euro	
M 4	0.7	63	13	2.8	2.1	3.3	7.68		10.00	14.01		
M 5	0.8	70	16	3.5	2.7	4.2	8.26		10.74	15.06		
M 6	1	80	19	4.5	3.4	5	8.26		10.74	15.06		
M 8	1.25	90	22	6	4.9	6.8	10.06		13.09	18.36		
M 10	1.5	100	24	7	5.5	8.5	12.99		16.86	23.63		
M 12	1.75	110	29	9	7	10.2	15.27	22.92	19.86	27.81	39.75	
M 14	2	110	30	11	9	12	20.84	31.31	27.13	37.94	52.23	
M 16	2	110	32	12	9	14	22.20	53.07	28.93	40.46	56.61	
M 18	2.5	125	34	14	11	15.5	28.46	61.21	36.99	42.50	73.24	
M 20	2.5	140	34	16	12	17.5	32.13	67.12	41.82	60.86	79.93	
M 22	2.5	140	34	18	14.5	19.5	39.07	90.13	50.90	74.46	108.19	
M 24	3	160	38	18	14.5	21	40.87	92.65	53.11	80.00	109.82	
M 27	3	160	38	20	16	24	45.73		59.50	88.98		
M 30	3.5	180	45	22	18	26.5	57.05		74.19	109.85		
M 33	3.5	180	50	25	20	29.5	127.81					
M 36	4	200	56	28	22	32	173.78					
M 39	4	200	60	32	24	35	218.90					
M 42	4.5	200	60	32	24	37.5	218.90					
M 45	4.5	220	65	36	29	40.5	218.90					
M 48	5	250	70	36	29	43	231.88					
M 52	5	250	70	40	32	47	266.22					

METRİK NORMAL DIŞ MAKİNA KILAVUZLARI



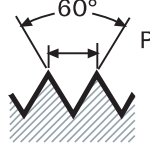
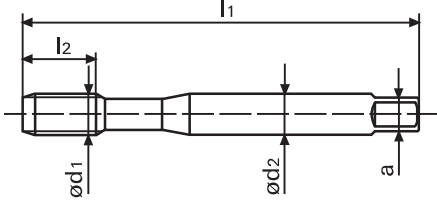
Uygun Kullanım Yeri	FORMU	R40	R40 TiN	R40	R40 TiN	R40 TiCN	R40 (SOL)
<b>800</b> : Yumuşak imalat çeliği ve tornalık malzeme için	KULLANIM YERİ	800	800	INOX	INOX	FAN	800
<b>INOX</b> : Paslanmaz ve aside dayanıklı çelik için	DELİK TİPİ						
<b>FAN</b> : Mukavemeti 800 Mpa Rm-1200 MPa olan ve ısıtıl işlemle 38 HRC'ye ıslah edilen soğuk iş takım çeliği ve zor işlenebilen çelik için	KALİTESİ	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
	AĞIZ ŞEKLİ	R40/2P	R40/2P	R40/2P	R40/2P	R40/2P	R40/2P
	TOLERANSI	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)

ÖLÇÜ								Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
M	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	ø d <sub>2</sub>	a		Euro	Euro	Euro	Euro	Euro	Euro
M 2	0.4	45	5		2.8	2.1	1.6						
M 2.5	0.45	50	5		2.8	2.1	1.6	14.76					
M 3	0.5	56	5	18	3.5	2.7	2.5	7.25	10.49	9.38	12.72	16.28	
M 3.5	0.6	56	6	20	4	3	2.9	8.75		11.42	15.39		
M 4	0.7	63	7	21	4.5	3.4	3.3	7.25	10.49	9.38	12.72	16.56	
M 4.5	0.75	70	7.5	25	6	4.9	3.8	11.67		15.11	20.42		
M 5	0.8	70	8	25	6	4.9	4.2	7.76	11.23	10.08	13.58	17.87	
M 6	1	80	10	30	6	4.9	5	7.76	11.23	10.08	13.58	18.40	
M 7	1	80	10	30	7	5.5	6	12.27		15.96	21.59		
M 8	1.25	90	13	35	8	6.2	6.8	9.48	13.71	12.27	16.60	23.70	
M 9	1.25	90	13	35	9	7	7.8	16.03		20.86	28.11		
M 10	1.5	100	15	39	10	8	8.5	12.34	17.87	16.03	21.66	28.76	

**METRİK NORMAL DIŞ MAKİNA KILAVUZLARI**


<b>Uygun Kullanım Yeri</b>  <b>800</b> : Yumuşak imalat çeliği ve tornalık malzeme için <b>INOX</b> : Paslanmaz ve aside dayanıklı çelik için <b>FAN</b> : Mukavemeti 800 Mpa Rm-1200 MPa olan ve ısıtılma işlemle 38 HRC'ye ıslah edilen soğuk iş takım çeliği ve zor işlenebilen çelik için	FORMU	R40	R40 TiN	R40	R40 TiN	R40 TiCN	R40 (SOL)
	KULLANIM YERİ	800	800	INOX	INOX	FAN	800
	DELİK TİPİ						
	KALİTESİ	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
	AĞIZ ŞEKLİ	R40/2P	R40/2P	R40/2P	R40/2P	R40/2P	R40/2P
	TOLERANSI	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)

ÖLÇÜ							Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
M	P	l <sub>1</sub>	l <sub>2</sub>	ø d <sub>2</sub>	a		Euro	Euro	Euro	Euro	Euro	Euro
M 4	0.7	63	7	2.8	2.1	3.3	8.04	12.33	10.43	13.52		
M 5	0.8	70	8	3.5	2.7	4.2	8.55	13.66	11.10	14.50		
M 6	1	80	10	4.5	3.4	5	8.55	13.66	11.10	14.50		
M 8	1.25	90	13	6	4.9	6.8	10.43	16.16	13.55	17.59		
M 10	1.5	100	15	7	5.5	8.5	13.58	20.89	17.65	22.96		
M 12	1.75	110	18	9	7	10.2	19.88	27.79	25.82	33.55	43.78	
M 14	2	110	20	11	9	12	27.06	37.87	35.20	45.76	52.79	
M 16	2	110	20	12	9	14	28.97	40.55	37.65	48.91	57.21	
M 18	2.5	125	25	14	11	15.5	39.75	58.20	51.71	67.19	83.86	
M 20	2.5	140	25	16	12	17.5	42.14	59.02	54.79	71.20	83.86	
M 22	2.5	140	25	18	14.5	19.5	53.65		69.77	90.69	113.94	
M 24	3	160	30	18	14.5	21	55.65		72.38	94.13	123.64	
M 27	3	160	38	20	16	24	68.69		83.18	109.36		
M 30	3.5	180	45	22	18	26.5	74.25		96.53	128.31		
M 33	3.5	180	35	25	20	29.5	140.63					
M 36	4	200	40	28	22	32	191.15					
M 39	4	200	40	32	24	35	218.10					
M 42	4.5	200	45	32	24	37.5	239.60					



### Uygun Kullanım Yeri

800 : Yumuşak imalat çeliği ve tornalık malzeme için

#### FORMU

WGN

 TİN  
WGN

 TİN  
WGN

AZ

#### KULLANIM YERİ

800 Yağ Kanallı

800 Yağ Kanallı

800

800 AZ

#### DELİK TİPİ



#### KALİTESİ

HSSE - PM

HSSE - PM

HSSE - PM

HSSE

#### AĞIZ ŞEKLİ

C/2P

C/2P

C/2P

B/4P

#### TOLERANSI

6HX

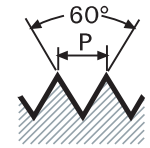
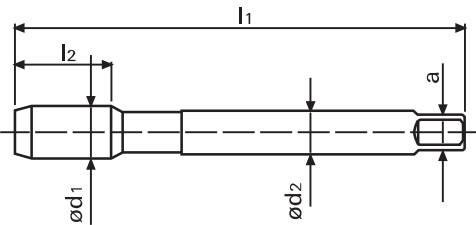
6HX

6HX

ISO2 (6H)

## DIN - 371 HSSE

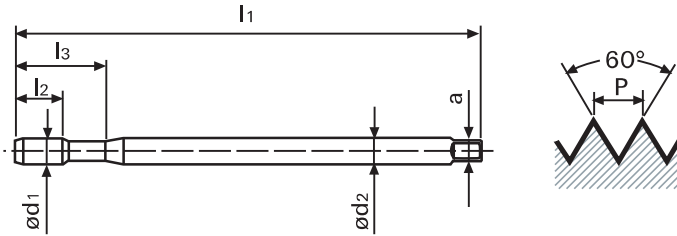
ÖLÇÜ							Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
M ø d1	P	l1	l2	ø d2	a					
M 2	0.4	45	8	2.8	2.1	1.83				
M 2.2	0.45	45	8	2.8	2.1	2				
M 2.5	0.45	50	9	2.8	2.1	2.3				
M 3	0.5	56	11	3.5	2.7	2.8	15.84	16.50	16.50	9.11
M 3.5	0.6	56	12	4	3	3.25	18.87	19.40	19.40	
M 4	0.7	63	13	4.5	3.4	3.7	15.84	16.50	16.50	9.11
M 5	0.8	70	15	6	4.9	4.65	17.90	18.64	18.64	9.76
M 6	1	80	17	6	4.9	5.55	17.90	18.64	18.64	9.76
M 7	1	80	18	7	5.5	6.0				15.40
M 8	1.25	90	20	8	6.2	7.4	25.30	26.56	26.56	11.90
M 9	1.25	90	20	9	7	7.8				25.33
M10	1.5	100	22	10	8	9.3	30.02	31.62	31.62	15.40



## DIN - 376 HSSE

ÖLÇÜ							Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
M ø d1	P	l1	l2	ø d2	a					
12	1.75	110	24	9	7	11.2	40.02	56.40	56.40	19.86
14	2	110	26	11	9	13	55.20	68.80	68.80	27.13
16	2	110	27	12	9	15	89.70	96.90	96.90	28.90
18	2.5	125	34	14	11	15.5				36.99
20	2.5	140	34	16	12	17.5				41.79



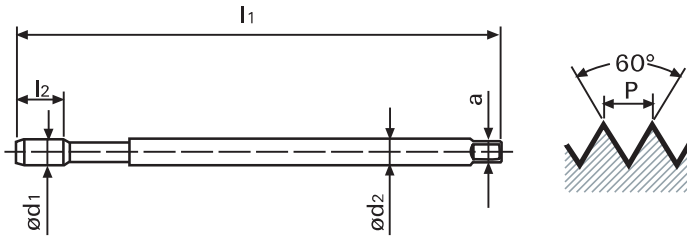
**UZUN BOY METRİK NORMAL DIŞ MAKİNA KILAVUZLARI**

**DIN - 371 EL HSSE**
**Uygun Kullanım Yeri**

800 : Yumuşak imalat çeliği ve tornalık malzeme için

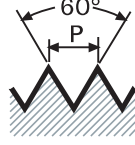
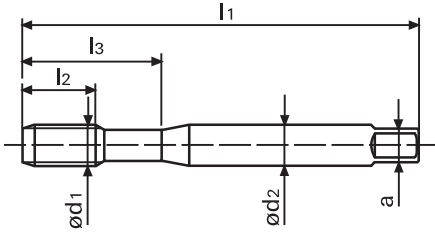
**FORMU**
**KULLANIM YERİ**
**DELİK TİPİ**
**KALİTESİ**
**AĞIZ ŞEKLİ**
**TOLERANSI**
**C**
**B**
**R40**
**800**
**800**
**800**

**2**
**4**
**1**
**2**
**3**
**4**
**HSSE**
**HSSE**
**HSSE**
**C/2P**
**B/4P**
**R40/2P**
**ISO-2 (6H)**
**ISO-2 (6H)**
**ISO-2 (6H)**
**ÖLÇÜ**

M ø d1	P	l1	l2	l2 R40	l3	ø d2	a		Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
M3	0,5	100	10	5	18	3,5	2,7	2,5	<b>12.96</b>	<b>16.89</b>	<b>18.78</b>
M4	0,7	125	12	7	20	4,5	3	3,3	<b>12.96</b>	<b>16.89</b>	<b>18.78</b>
M5	0,8	140	14	8	25	6	4,9	4,2	<b>13.65</b>	<b>18.16</b>	<b>20.05</b>
M6	1	160	18	10	30	6	4,9	5	<b>13.65</b>	<b>18.16</b>	<b>20.05</b>

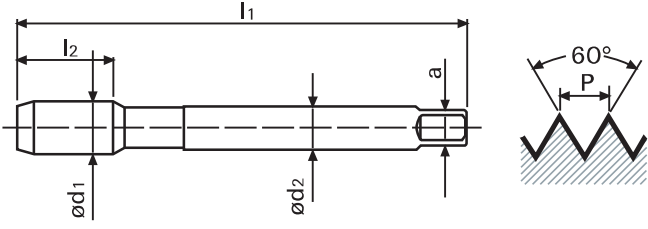

**DIN - 376 EL HSSE**
**ÖLÇÜ**

M ø d1	P	l1	l2	l2 R40	ø d2	a		Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
M8	1,25	180	20	13	6	4,9	6,8	<b>16.69</b>	<b>22.10</b>	<b>24.44</b>
M10	1,5	180	22	15	7	5,5	8,5			
M12	1,75	220	29	18	9	7	10,2			
M14	2	220	30	20	11	9	12			
M16	2	220	32	20	12	9	14			



<b>Uygun Kullanım Yeri</b>  800 : Yumuşak imalat çeliği ve tornalık malzeme için	FORMU	C	C TiN	B	B TiN	R40	R40 TiN	C (SOL)
	KULLANIM YERİ	800	800	800	800	800	800	800
	DELİK TİPİ							
	KALİTESİ	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
	AĞIZ ŞEKLİ	C/2P	C/2P	B/4P	B/4P	R40/2P	R40/2P	C/2P
	TOLERANSI	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)

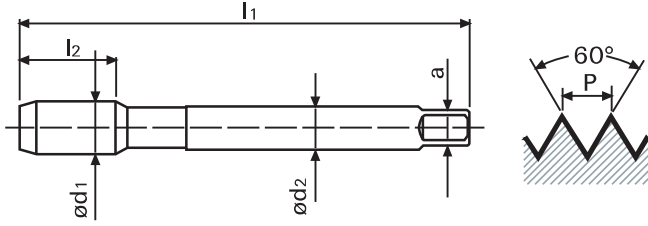
ÖLÇÜ									Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
MF ø d1	P	l1	l2	l2 R40	l3	ø d2	a		Euro	Euro	Euro	Euro	Euro	Euro	Euro
M 4 x 0.5	0.5	63	10	7	21	4.5	3.4	3.7	8.06	12.87	8.43	14.18	8.71	18.44	
M 5 x 0.5	0.5	70	12	8	25	6	4.9	4.5	6.80	11.87	9.08	15.23	9.29	19.75	
M 6 x 0.75	0.75	80	14	10	30	6	4.9	5.2	6.80	12.68	9.08	15.23	9.29	15.80	
M 8 x 0.75	0.75	80	18	10	30	8	6.2	7.2	8.33	15.50	10.91	18.46	11.38	19.21	16.74
M 8 x 1	1	90	20	13	35	8	6.2	7	8.33	15.50	10.91	18.46	7.38	19.21	16.74
M10 x 0.75	0.75	90	20	13	35	10	8	9.2	10.61	19.86	14.18	23.90	14.82	24.96	20.57
M10 x 1	1	90	20	13	35	10	8	9	10.61	19.86	14.18	23.90	14.82	24.96	20.57
M10 x 1.25	1.25	100	20	15	39	10	8	8.8	10.61	19.86	14.18	23.90	14.82	24.96	20.57

**METRİK İNCE DİŞ MAKİNA KILAVUZLARI**


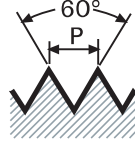
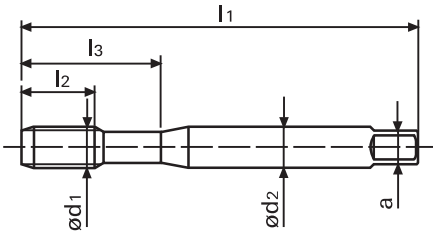
<b>Uygun Kullanım Yeri</b>  <b>800</b> : Yumuşak imalat çeliği ve tornalık malzeme için	FORMU	C	C TİN	B	B TİN	R40	R40 TİN	C (SOL)
	KULLANIM YERİ	800	800	800	800	800	800	800
	DELİK TİPİ							
	KALİTESİ	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
	AĞIZ ŞEKLİ	C/2P	C/2P	B/4P	B/4P	R40/2P	R40/2P	C/2P
	TOLERANSI	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)

ÖLÇÜ									Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
MF	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>2</sub> R40	ø d <sub>2</sub>	a			Euro	Euro	Euro	Euro	Euro	Euro	Euro
ø d <sub>1</sub>															
M 8 x 1	1	90	20	10	6	4.9	7			20.70		23.87		23.98	26.46
M 10 x 1	1	90	20	10	7	5.5	9			24.45		27.71		28.21	35.46
M 12 x 1	1	100	20	10	9	7	11		13.97	25.91	18.36	30.87	23.82	33.61	27.09
M 12 x 1.25	1.25	100	20	15	9	7	10.8		13.97	25.91	18.36	30.87	23.82	33.61	28.13
M 12 x 1.5	1.5	100	20	15	9	7	10.5		13.97	25.91	18.36	30.87	23.82	33.61	28.13
M 13 x 1	1	100	20	15	9	9	11		23.90						40.32
M 14 x 1	1	100	20	15	11	9	12.5		17.99	41.65	34.99	46.75	35.20	50.53	40.32
M 14 x 1.25	1.25	100	20	15	11	9	12.8		18.84		26.30		32.47		40.32
M 14 x 1.5	1.5	100	20	15	11	9	12.5		18.84	33.66	25.06	40.66	32.47	44.58	40.32
M 15 x 1	1	100	20	15	11	9	13		23.90		41.76				42.62
M 15 x 1.5	1.5	100	20	15	12	9	13.5		23.90						
M 16 x 1	1	100	20	15	12	9	14.5		20.30	43.72	40.57	50.12		58.38	42.62
M 16 x 1.5	1.5	100	20	15	12	9	14.5		20.30	36.38	26.66	43.59	34.79	47.95	42.62
M 17 x 1	1	100	20	10	12	9	16		28.70						
M 18 x 1.5	1.5	110	24	17	14	11	16.5		26.55	47.50	35.12	57.19	45.73	62.90	53.46
M 18 x 2	2	110	24	17	14	11	16.5		26.55		35.12		45.73		56.88
M 20 x 1.5	1.5	125	24	17	16	12	18.5		28.25	53.68	37.26	63.82	48.46	69.26	56.88
M 20 x 2	2	140	32	17	16	12	18		29.41	54.94	38.62	65.38	51.48	72.47	59.27
M 22 x 1.5	1.5	125	24	17	18	14.5	20.5		35.94	67.50	47.50	81.19	61.69	87.58	120.51
M 22 x 2	2	140	32	20	18	14.5	20		35.94		47.50		61.69	87.58	120.51
M 24 x 1.5	1.5	140	27	20	18	14.5	22.5		37.30	74.77	49.27	88.33	63.98	94.76	122.81
M 24 x 2	2	140	27	20	18	14.5	22		38.79	74.77	49.27	88.33	63.98	94.76	134.01
M 25 x 1	1	140	26	15	18	14.5	24		44.37						
M 25 x 1.5	1.5	140	27	20	18	14.5	23		37.33	101.49		140.69		141.99	174.29
M 26 x 1.5	1.5	140	27	20	18	14.5	24.5		44.37	102.51		133.76	88.03	134.90	178.61
M 27 x 1.5	1.5	140	27	20	20	16	25.5		47.87	89.25	63.24	106.69	82.33	116.26	165.65
M 27 x 2	2	140	27	20	20	16	25		47.87	89.25	63.24	106.69	82.33	116.26	167.63
M 28 x 1.5	1.5	140	27	20	20	16	26.5		58.45						204.84
M 30 x 1.5	1.5	150	27	22	22	18	28.5		58.45	108.46	77.18	129.74	100.49	141.51	204.84
M 30 x 2	2	150	27	22	22	18	28		58.45	108.46	77.18	129.74	100.49	141.51	210.38
M 30 x 3	3	150	27	22	22	18	28		58.45	108.46	77.18	129.74	100.49	141.51	210.38

## METRİK İNCE DİŞ MAKİNA KILAVUZLARI



Uygun Kullanım Yeri									FORMU	C	C TiN	B	B TiN	R40	R40 TiN	C (SOL)
<b>800</b> : Yumuşak imalat çeliği ve tornalık malzeme için									KULLANIM YERİ	800	800	800	800	800	800	800
									DELİK TİPİ							
									KALİTESİ	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
									AĞIZ ŞEKLİ	C/2P	C/2P	B/4P	B/4P	R40/2P	R40/2P	C/2P
									TOLERANSI	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)
ÖLÇÜ									Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	
MF ø d1	P	l1	l2	l2 R40	ø d2	a		Euro	Euro	Euro	Euro	Euro	Euro	Euro	Euro	
M 32 x 1.5	1.5	150	27	22	22	18	30.5	101.66								
M 32 x 2	2	150	27	22	22	18	30	101.66								
M 33 x 1.5	1.5	160	30	24	25	20	31.5	124.59								
M 33 x 2	2	160	30	24	25	20	31	137.07								
M 35 x 1.5	1.5	170	30	22	28	22	33.5	186.33								
M 35 x 2	2	170	30	24	28	22	33	186.33								
M 36 x 1.5	1.5	170	30	24	28	22	34.5	169.41								
M 36 x 2	2	170	30	24	28	22	34	220.20								
M 36 x 3	3	200	50	30	28	22	33	186.33								
M 38 x 1.5	1.5	170	30	24	28	22	36.5	203.27								
M 39 x 1.5	1.5	170	30	25	32	24	37.5	223.60								
M 39 x 2	2	170	30	25	32	24	37	212.96								
M 39 x 3	3	200	50	30	32	24	36	290.23								
M 40 x 1.5	1.5	170	30	25	32	24	38.5	223.60								
M 40 x 2	2	170	30	25	32	24	38	223.60								
M 40 x 3	3	200	50	30	32	24	37	223.60								
M 42 x 1.5	1.5	170	30	25	32	24	40.5	242.68								
M 42 x 2	2	170	30	25	32	24	40	242.68								
M 42 x 3	3	200	50	30	32	24	39	242.68								
M 45 x 1.5	1.5	180	30		36	29	43.5	242.68								
M 45 x 2	2	180	30		36	29	43	242.68								
M 45 x 3	3	200	50		36	29	42	242.68								
M 48 x 1.5	1.5	190	30		36	29	46.5	258.41								
M 48 x 2	2	190	30		36	29	46	258.41								
M 48 x 3	3	225	50		36	29	45	258.41								
M 52 x 1.5	1.5	190	30		40	32	50.5	296.71								
M 52 x 2	2	190	30		40	32	50	296.71								
M 52 x 3	3	225	50		40	32	49	296.71								

**G BORU DIŞ UZUN MAKİNA KILAVUZLARI**


**Uygun Kullanım Yeri**

**800** : Yumuşak imalat çeliği ve tornalık malzeme için

**FORMU**

C

B

R40

**KULLANIM YERİ**

800

800

800

**DELİK TİPİ**

**KALİTESİ**

HSSE

HSSE

HSSE

**AĞIZ ŞEKLİ**

C/2P

B/4P

R40/2P

**TOLERANSI**

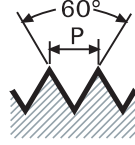
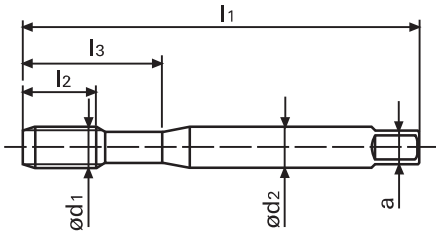
A

A

A

**ÖLÇÜ**

G	ø d <sub>1</sub>	1"/p	P	l <sub>1</sub>	l <sub>2</sub>	l <sub>2</sub> R40	ø d <sub>2</sub>	a		Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
										Euro	Euro	Euro
G - 1/16"	7.723	28	0.907	90	17	10	6	4.9	6.7	<b>14.35</b>	<b>16.86</b>	<b>17.44</b>
G - 1/8"	9.728	28	0.907	90	18	10	7	5.5	8.8	<b>15.33</b>	<b>18.05</b>	<b>18.67</b>
G - 1/4"	13.157	19	1.337	100	22	14	11	9	11.8	<b>25.50</b>	<b>29.99</b>	<b>31.04</b>
G - 3/8"	16.662	19	1.337	100	22	15	12	9	15.25	<b>28.80</b>	<b>33.90</b>	<b>35.05</b>
G - 1/2"	20.955	14	1.814	125	25	17	16	12	19	<b>49.67</b>	<b>58.45</b>	<b>60.45</b>
G - 5/8"	22.911	14	1.814	125	25	17	18	14.5	21	<b>58.14</b>	<b>68.37</b>	<b>70.72</b>
G - 3/4"	26.441	14	1.814	140	28	20	20	16	24.5	<b>93.67</b>	<b>110.23</b>	<b>114.00</b>
G - 7/8"	30.201	14	1.814	150	28	22	22	18	28.25	<b>116.72</b>	<b>137.33</b>	<b>142.02</b>
G - 1"	33.249	11	2.309	160	30	24	25	20	30.75	<b>148.55</b>	<b>174.73</b>	<b>180.71</b>
G - 1.1/8"	37.900	11	2.309	170	30	25	28	22	35.50	<b>240.52</b>	<b>282.95</b>	<b>292.64</b>
G - 1.1/4"	41.910	11	2.309	170	30	25	32	24	39.50	<b>309.23</b>	<b>363.80</b>	<b>376.24</b>
G - 1.3/8"	41.910	11	2.309	170	30	25	32	24	42	<b>395.49</b>	<b>465.26</b>	<b>481.17</b>
G - 1.1/2"	47.800	11	2.309	190	32	27	36	29	45.25	<b>515.24</b>	<b>606.19</b>	<b>626.89</b>
G - 1.3/4"	53.750	11		190	32		40	32	51	<b>625.09</b>	<b>735.42</b>	<b>760.55</b>
G - 2"	59.610	11		220	40		45	35	57	<b>783.94</b>	<b>922.32</b>	<b>953.80</b>
G - 2.1/2"	75.810	11		275	40		50	39	73			
G - 3"												



### Uygun Kullanım Yeri

800 : Yumuşak imalat çeliği ve tornalık malzeme için

FORMU

KULLANIM YERİ

DELİK TİPİ

KALİTESİ

AĞIZ ŞEKLİ

TOLERANSI

C

B

R40

800

800

800



HSSE

HSSE

HSSE

C/2P

B/4P

R40/2P

2B

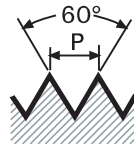
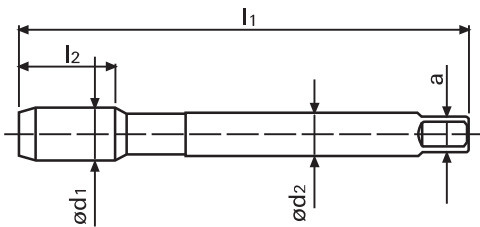
2B

2B

### DIN - 371 HSSE

#### ÖLÇÜ

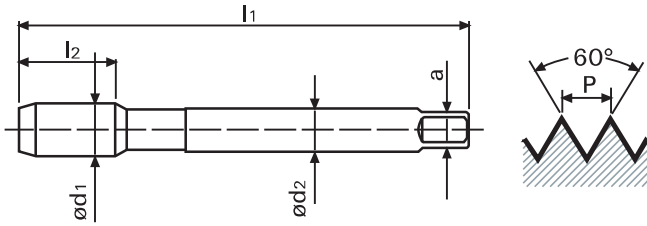
UNC	ø d1	1"/P	P	l1	l2	l3	l2 R40	ø d2	a		Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
No 5 - 40	3.175	40	0.635	56	10	18	5	3.5	2.7	2.6	7.58	8.16	8.50
No 6 - 32	3.505	32	0.794	56	12	20	6	4	3	2.7	7.58	8.16	8.50
No 8 - 32	4.166	32	0.794	63	12	21	7	4.5	3.4	3.5	7.58	8.16	8.50
No 10 - 24	4.826	24	1.058	70	14	25	8	6	4.9	3.8	7.58	8.16	8.50
No 12 - 24	5.486	24	1.058	80	18	30	10	6	4.9	4.5	8.40	9.35	9.72
1/4 - 20	6.350	20	1.270	80	18	30	12	7	5.5	5.1	8.36	9.28	9.69
5/16 - 18	7.938	18	1.411	90	20	35	15	8	6.2	6.5	10.34	11.42	11.90
3/8 - 16	9.525	16	1.588	100	21	39	18	10	8	8	13.26	14.76	15.47



### DIN - 376 HSSE

#### ÖLÇÜ

UNC	ø d1	1"/P	P	l1	l2	l2 R40	ø d2	a		Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
7/16 - 14	11.112	14	1.814	100	20	15	8	6.2	9.3	17.10	18.60	19.45
1/2 - 13	12.700	13	1.954	110	24	18	9	7	10.7	18.94	21.01	29.04
9/16 - 12	14.288	12	2.117	110	28	20	11	9	12.3	18.94	26.04	29.04
5/8 - 11	15.875	11	2.309	110	30	20	12	9	13.5	24.99	34.48	36.38
3/4 - 10	19.050	10	2.504	125	32	25	14	11	16.5	42.47	47.16	52.56
7/8 - 9	22.225	9	2.822	140	32	25	18	14.5	19.5	54.06	60.08	63.21
1 - 8	25.400	8	3.175	160	36	30	18	14.5	22.25	56.13	62.32	65.86

**UNF MAKİNA KILAVUZLARI**

**Uygun Kullanım Yeri**

**800** : Yumuşak imalat çeliği ve tornalık malzeme için

**FORMU**
**KULLANIM YERİ**
**DELİK TİPİ**
**KALİTESİ**
**AĞIZ ŞEKLİ**
**TOLERANSI**
**C**
**B**
**R40**
**800**
**800**
**800**

**HSSE**
**HSSE**
**HSSE**
**C/2P**
**B/4P**
**R40/2P**
**2B**
**2B**
**2B**
**DIN - 371 HSSE**
**ÖLÇÜ**

UNF	ø d1	1"/P	P	l1	l2	l3	l2 R40	ø d2	a	
No 5 - 44	3.175	44	0.577	56	10	18	5	3.5	2.7	2.7
No 6 - 40	3.505	40	0.635	56	12	20	6	4	3	3
No 8 - 36	4.166	36	0.705	63	12	21	7	4.5	3.4	3.5
No 10 - 32	4.826	32	0.794	70	14	25	8	6	4.9	4.1
No 12 - 28	5.486	28	0.907	80	18	30	10	6	4.9	4.65
1/4 - 28	6.350	28	0.907	80	18	30	12	7	5.5	5.5
5/16 - 24	7.938	24	1.058	90	20	35	15	8	6.2	6.9
3/8 - 24	9.525	24	1.058	100	21	39	18	10	8	8.5

Birim Fiyatı

Euro

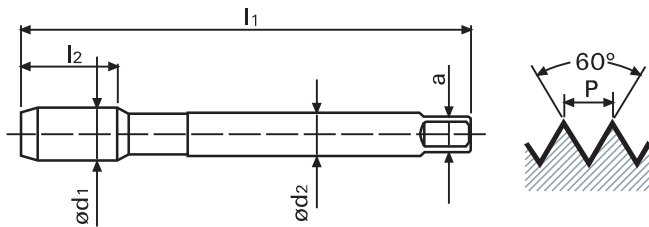
Birim Fiyatı

Euro

Birim Fiyatı

Euro

<b>7.58</b>	<b>8.16</b>	<b>8.50</b>
<b>7.58</b>	<b>8.16</b>	<b>8.50</b>
<b>7.58</b>	<b>8.16</b>	<b>8.50</b>
<b>7.58</b>	<b>8.16</b>	<b>8.50</b>
<b>8.40</b>	<b>9.35</b>	<b>9.72</b>
<b>9.28</b>	<b>10.34</b>	<b>10.71</b>
<b>10.34</b>	<b>11.42</b>	<b>11.90</b>
<b>13.26</b>	<b>14.76</b>	<b>15.47</b>


**DIN - 374 HSSE**
**ÖLÇÜ**

UNF	ø d1	1"/P	P	l1	l2	l2 R40	ø d2	a	
7/16 - 20	11.112	20	1.270	100	20	15	8	6.2	9.9
1/2 - 20	12.700	20	1.270	100	20	15	9	7	11.5
9/16 - 18	14.288	18	1.411	100	20	15	11	9	13
5/8 - 18	15.875	18	1.411	100	20	15	12	9	14.5
3/4 - 16	19.050	16	1.588	110	24	17	14	11	17.5
7/8 - 14	22.225	14	1.814	125	24	17	18	14.5	20.5
1 - 12	25.400	12	2.117	140	27	20	18	14.5	23.3

Birim Fiyatı

Euro

Birim Fiyatı



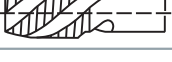
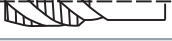
Euro

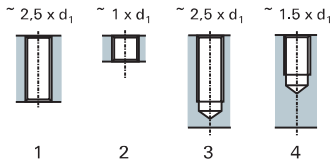
Birim Fiyatı



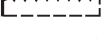


Euro

<b>17.10</b>	<b>18.60</b>	<b>19.45</b>
<b>18.94</b>	<b>21.01</b>	<b>29.04</b>
<b>18.94</b>	<b>26.04</b>	<b>29.04</b>
<b>24.99</b>	<b>34.48</b>	<b>36.38</b>
<b>42.47</b>	<b>47.16</b>	<b>52.56</b>
<b>54.06</b>	<b>60.08</b>	<b>63.21</b>
<b>56.13</b>	<b>62.32</b>	<b>65.86</b>

SEMBOLLER	
Az	Atlamalı kılavuz
BL	Saç kılavuzu
IK	Dahili soğutma
SR	Yağlama yivleri
LH	Ters dişli- sol el
EL	Çift boylu kılavuz

Yapım		Malzemenin Cinsi	
		Düz yivler	HSS Yüksek hız molibden çeliği
B		Düz yivli, yatık ilerleme yüzeyli	HSSE Yüksek hız kobalt çeliği
L		Ters (sol el) civata yivi	HSSE PM Yüksek hız toz metal çeliği
R		Düz (sağ el) civata yivi	HSSE PMS Yüksek hız özel toz metal çeliği

**Delik Tipi**

**Nakroç**

A		6 ÷ 8P	5°
B		3,5 ÷ 5,5P	8°
C		2 ÷ 3P	15°
D		3,5 ÷ 5P	8°
E		1,5 ÷ 2P	23°

**OX – Oksitlenme**

<b>TiN</b>	BALINIT A
<b>TiCN</b>	BALINIT B
<b>TiAlN</b>	BALINIT FUKUNA NANO
<b>OX</b>	Pasywacja / Oxydation / Dampfangelassen

İŞLENEN MALZEME		R <sub>m</sub> [MPa]	HB Sertlik
<b>1. Çelik</b>			
1.1.	Derin çekme çelik, manyetik çelik, yumuşak çelik	<400	<120
1.2.	Otomat çelikleri, konstrüksiyon çeliği, karbonlama çeliği	300 ÷ 500	100 ÷ 150
1.3.	Karbon konstrüksiyon çeliği, az alaşımlı çelik, dökme çelik	400 ÷ 800	120 ÷ 240
1.4.	İslah çeliği, alaşım çeliği, soğuk-ış takım çeliği	800 ÷ 1000	240 ÷ 300
1.5.	38 HRC ye kadar ıslah edilmiş ve temperlenmiş çelik	1000 ÷ 1200	-
1.6.	44 HRC ye kadar ıslah edilmiş ve temperlenmiş çelik	1200 ÷ 1400	-
<b>2. Paslanmaz çelik</b>			
2.1.	Ferritik çelik, martensitik paslanmaz çelik	400 ÷ 1000	120 ÷ 300
2.2.	Ostenitik çelik	500 ÷ 850	150 ÷ 250
2.3.	Isıya dayanıklı çelik	500 ÷ 1100	150 ÷ 325
<b>3. Dökme demir</b>			
3.1.	Gri dökme demir	400 ÷ 700	100 ÷ 210
3.2.	Gri dökme demir	700 ÷ 1000	210 ÷ 300
3.3.	Sferoidal grafit dökme demir ve temper dökme demir	400 ÷ 700	100 ÷ 210
3.4.	Sferoidal grafit dökme demir ve temper dökme demir	700 ÷ 1000	210 ÷ 300
<b>4. Titanyum</b>			
4.1.	Alaşımsız titanyum	500 ÷ 700	150 ÷ 210
4.2.	Titanyum alaşımları	700 ÷ 1250	210 ÷ 370
<b>5. Nikel</b>			
5.1.	Alaşımsız nikel	<500	<150
5.2.	Nikel alaşımları	500 ÷ 1250	150 ÷ 370
<b>6. Bakır</b>			
6.1.	Alaşımsız bakır, az alaşımlı bakır	<350	<105
6.2.	Pirinç, kısa talaş bronz	<700	<210
6.3.	Uzun talaş prinç	<700	<210
6.4.	Alaşımlı bronz	<1200	<355
<b>7. Alüminyum</b>			
7.1.	Alaşımsız alüminyum	<350	<105
7.2.	Alüminyum alaşımları – Si<%5	<700	<210
7.3.	Alüminyum alaşımları – %5<Si<%10	<400	<120
7.4.	Alüminyum alaşımları – Si>%10	<400	<120
<b>8. Sentetik malzemeler</b>			
8.1.	Termoplastik malzemeler	-	-
8.2.	Duroplast, sertleşen plastikler	-	-



**Yüksek performanslı kılavuz ve paftalar için malzeme grupları ve kullandıkları yerler**

<b>800</b>	Mukavemeti 600MPa≤Rm≤800 MPa olan karbon konstrüksiyon çeliği, otomat çeliği ve az alaşımlı çelikler
<b>800 Az</b>	800'ün Rm≤500 MPa olan yumuşak malzemelerde açık delik delmekte kullanılan tipi
<b>800 BL</b>	800'ün kısa açık delikler ve saçlar için kullanılan tipi
<b>1000</b>	Mukavemeti 700MPa≤Rm≤1000 MPa olan konstrüksiyon çeliği, soğuk iş takım çeliği ve alaşımlı çelikler
<b>INOX</b>	Mukavemeti Rm≤1000 MPa olan yüksek alaşımlı çelik, paslanmaz ve asite dayanıklı çelik
<b>FAN</b>	Mukavemeti 800MPa≤Rm≤1200 MPa olan ve ısıtılma işlemle 38 HRC'ye ıslah edilen soğuk iş takım çeliği ve zor işlenebilen çelik
<b>FAN-E</b>	FAN'ın tabanına kadar dış açılmış kapalı delikler için olanı
<b>FAN-Ni</b>	Nikel, titanyum ve bunların alaşımları için
<b>1400</b>	Mukavemeti 1000MPa≤Rm≤1400 MPa olan zor işlenen ve ateşe dayanıklı çelikler ile 44 HRC'ye kadar ısıtılma işlemine tabi tutulan çelikler
<b>GG</b>	Gri dökme demir ve sferoidal grafit dökme demir
<b>Ms</b>	Pirinç ve kısa talaşlı bronz
<b>AL</b>	Yumuşak alüminyum ve yumuşak sentetik malzeme
<b>GAL</b>	İçinde max %10 oranında Si bulunduran dökme alüminyum alaşımları
<b>S-NC</b>	"Rigit taping" fonksiyonu bulunan CNC tezgahlarda çok geniş bir malzeme yelpazesinin senkon kılavuzlamasında
<b>WGN</b>	A>%10 uzama katsayısına sahip plastik malzemeleri işlemekte kullanılan ovalama kılavuzları

**Soğutma Sıvısı**

<b>E</b>	Emulsiyon
<b>O</b>	Yağ
<b>OS</b>	Özel Yağ
<b>P</b>	Kılavuz Pastası
<b>SP</b>	Basınçlı Hava
<b>S</b>	Kuru

**Notlar**

- Tabloda verilen işlem hızları yaklaşık rakamlar olup bir fikir vermek için konulmuştur.
- PVD kaplamalı kılavuzlarda işlem hızı %150 yükseltilebilir.
- Kapalı delik yapımlarında işlem hızı %70 alınmalıdır.

HRC Sertlik	Vc m/dk			Soğutma Sıvısı	Talaş Cinsi
	800 ÷ GAL	S-NC	WGN		
-	6 ÷ 20	-	10 ÷ 40	E, O	Ekstra Uzun
-	6 ÷ 20	30 ÷ 50	10 ÷ 40	E, O	Uzun
-	6 ÷ 15	25 ÷ 45	10 ÷ 25	E, O	Uzun
22 ÷ 32	4 ÷ 8	25 ÷ 40	8 ÷ 20	E, O	Uzun
32 ÷ 38	2 ÷ 6	15 ÷ 30	-	O, P	Uzun, Midyum
38 ÷ 44	1 ÷ 4	-	-	O, P	Midyum
-	1 ÷ 4	6 ÷ 12	5 ÷ 12	O, P	Uzun
-	4 ÷ 8	6 ÷ 15	5 ÷ 12	E, O, P	Uzun
-	1 ÷ 4	6 ÷ 10	5 ÷ 12	O, P	Uzun
-	6 ÷ 25	-	-	E, O, S	Çok Kısa
15 ÷ 32	6 ÷ 20	-	-	E, O, S	Çok Kısa
-	6 ÷ 12	15 ÷ 30	-	E, O	Kısa, Midyum
15 ÷ 32	4 ÷ 10	15 ÷ 25	-	E, O	Kısa, Midyum
-	2 ÷ 8	-	2 ÷ 8	O, P	Ekstra Uzun
15 ÷ 40	1 ÷ 4	-	-	O, P	Kısa, Midyum
-	3 ÷ 5	-	3 ÷ 8	O, P	Ekstra Uzun
-	1 ÷ 5	-	-	O, P	Uzun
-	14 ÷ 17	-	10 ÷ 40	E, O	Ekstra Uzun
-	15 ÷ 30	-	-	E, OS	Çok Kısa
-	10 ÷ 20	15 ÷ 30	10 ÷ 50	E, OS	Uzun
<38	6 ÷ 15	-	-	E, OS	Midyum
-	15 ÷ 40	-	15 ÷ 50	E, OS, P	Ekstra Uzun
-	15 ÷ 40	20 ÷ 30	15 ÷ 50	E, OS, P	Midyum
-	10 ÷ 40	20 ÷ 30	10 ÷ 50	E, OS, P	Midyum, Kısa
-	4 ÷ 8	-	-	E, OS, P	Kısa
-	10 ÷ 20	-	-	SP, S	Ekstra Uzun
-	3 ÷ 15	-	-	SP, S, E	Kısa



DIN-371	M	12	14	14	14	18	18	18	18	14	14	12	14	18	18	15	15	15	19	19	19	15	19	19
	UNC	28	30	30	30	34	34	34	34			28	30	34	34	30	30	31	35	35	35		35	35
DIN-376 DIN-374	M	13	16	16	16	20	20	20	20	16	16	13	16	20	20	17	17	17	21	21	21	17	21	21
	UNC	29	32	32	32	36	36	36	36			29	32	36	36	32	32	33	37	37	37		37	37
DIN-5156	G	42	42			42										43		43		43				
Hole type		2	4	1	2	1	2	1	2	4	3	4	3	4	3	4	1	2	2	2	4	1	2	4
		2	4	1	2	1	2	1	2	4	3	4	3	4	3	4	1	2	2	2	4	1	2	4
Execution	B	B	B	B	R15	R35	R35	R35	B	B		B	R15	R35	B	B	B	R35	R35	R35	B	R40	R30	
Material	HSSE																							
Coating	OX	TiN			OX	TiN			OX	TiN	TiN	TiN	TiN		OX	TiN		OX	TiN	TiCN	TiCN	TiN		
Chamfer	C	B	B	B	C	C	C	C	B	B	C	B	C	C	B	B	B	C	C	C	B	C	E	
Application	800																							
1																								
1.1			●	○	○		●	○	●	●														
1.2	○	○	●	●	○	○	●	●	●	●														
1.3	○	●	●	●	●	●	●	●	○	●		○	○	○	○	○	○	○	○	○	○		○	
1.4											●	●	●	●	○	○	○	○	○	○	○	○	○	○
1.5																						●	●	●
1.6																								
2																								
2.1												○	○	○	○			●			●	●	●	○
2.2															●	●	●	●	●	●	●	●	○	○
2.3																	○				○	○	○	○
3																								
3.1	○																							
3.2																								
3.3		○		○		○		○				●	●	●	●							●	●	●
3.4												●	●	●	●							●	●	●
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8.2													○	○	○	○								

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15	15	19	19	12	15	19	19	12	12	12	15	19	15	19	24	24	24	26	26	26										
31	31		35	28	31	35		28	28				31	35																
17	17	21	21	13	17	21	21	13	13				17	21	25	25	25	27	27	27										
33	33		37	29	33	37		29	29				33	37																
1	2	1	2	4	4	2	1	2	4	4							1	2	3	4	3	4	3	4	3	4	3	4	2	4
B	B	R15	R15		L15	R15	R15								B	R45	R45				SR	SR								
HSSE-PMS				HSSE-PMS				HSSE		HSSE	HSSE		HSSE		HSSE-PMS			HSSE-PM												
	TiN		TiN	TiCN	TiCN	TiCN	TiCN	TiCN	TiAIN				TiN	TiN						TiN	TiN									
B	B	C	C	C	D	C	C	C	C	E	B	C	B	C						B	C	C				C	C	C		
FAN-Ni				1400				GG		Ms	AL		GAL		S-NC			WGN												
Application																														
1																														

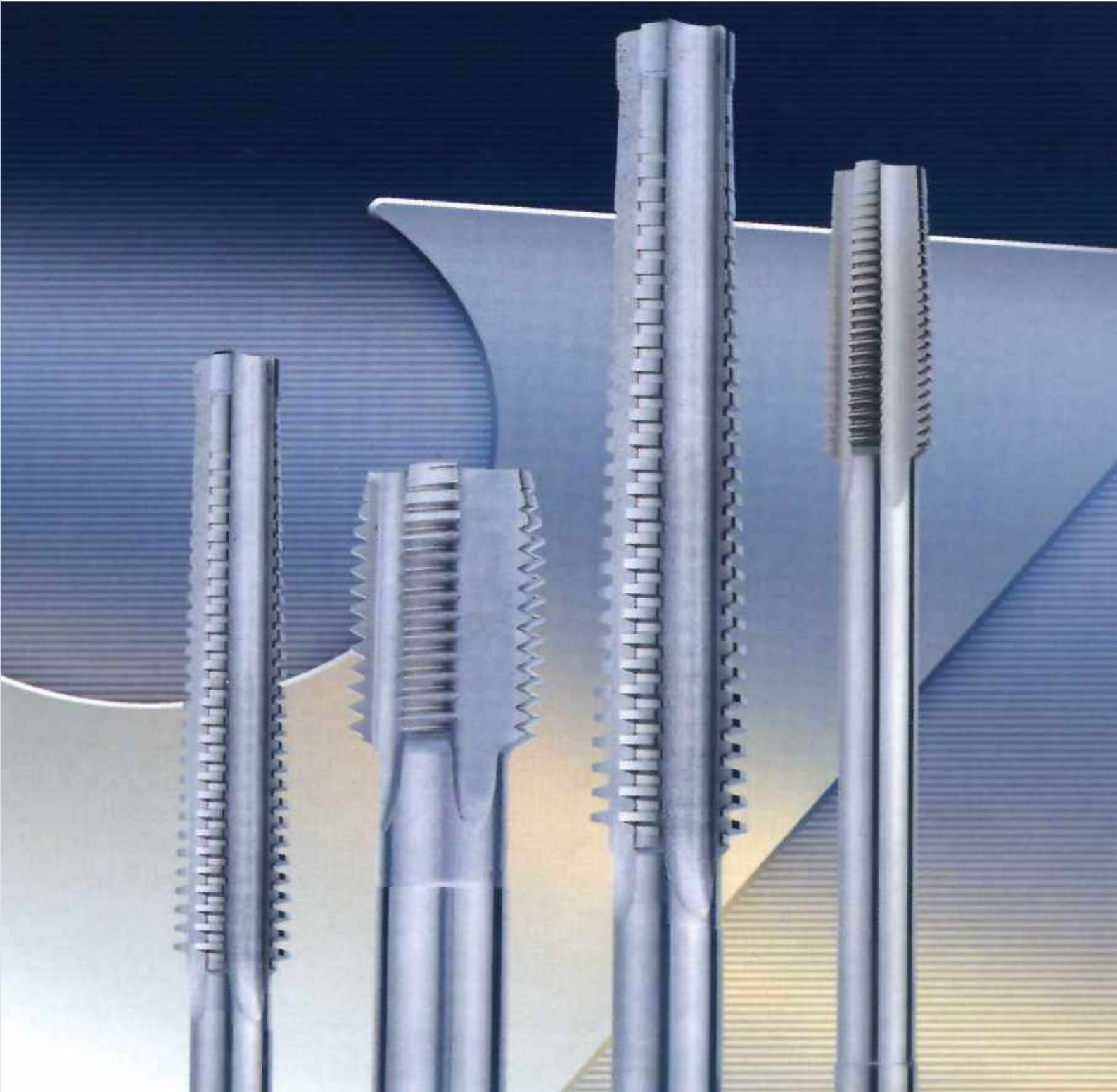
	<b>Materiał obrabiany</b>	<b>Material</b>	<b>Werkstoff</b>	<b>PN</b>	<b>DIN</b>	<b>Nr</b>	<b>Rm MPa</b>
<b>1</b>	<b>Stal</b>	<b>Steel</b>	<b>Stahlwerkstoffe</b>				
1.1	Stal głęboko tłoczna, stal magnetyczna, miękka	Deep-drawing, magnetic and soft steel	Kaltfließpresstähle, Magnetweicheisen		Q-St37-3 R-Fe 80	1.0123 1.1014	≤ 400
1.2	Stal automatowa, stal konstrukcyjna, stal do nawęglania	Free-cutting steel, constructional and carburizing steel	Automatenstähle, Baustähle	A10X St0S St3S	9 S 20 9 SMn 28 St33-1 St37-3 C10	1.0711 1.0715 1.0035 1.0116 1.0301	370-450 390-580 280-530 370-450 410-540
1.3	Stal konstrukcyjna węglowa, i niskostopowa, staliwo.	Constructional and carbon steel, low-alloy steel, cast steel	Baustähle, Niedriglegierte Stähle, Stahlguss	A35 18G2A  45 St5 L40GM	35S20 St52-3 9SMnPb28 C 45 St50-2 GS40Mn5	1.0726 1.0570 1.0718 1.0503 1.0050 1.1168	510-880 450-680 380-810 650-800 450-640 750-850
1.4	Stal do ulepszenia stal stopowa, stal narzędziowa do pracy na zimno	Alloy steel, cold-work tool steel	Legierte Stähle, Kaltarbeitsstähle	55 60 38HMJ 40H NC4	C55 C60 41CrAlMo7 41Cr4 100Cr6	1.0535 1.0601 1.8509 1.7035 1.2067	750-900 850-1000 800-1000 880-1030
1.5	Stal ulepszona do 38 HRC, stal narzędziowa do pracy no zimno	Hardening and tempered steel up to 38 HRC	Gehärtete Stähle bis 38 HRC	30H2N2M 35HM 37HGNM 38HNM 40HM	30CrNiMo8 34CrMo4 40NiCrMo2 36CrNiMo4 42CrMo4	1.6546 1.7220 1.6546 1.6511 1.7225	980-1180 980-1130 1000-1200 1030-1230 880-1200
1.6	Stal ulepszona do 44 HRC, stal narzędziowa do pracy no gorąco, stal szybko tnąca	Hardening and tempered steel up to 44 HRC	Gehärtete Stähle bis 44 HRC	40HNMA 40H2MF WNL SW7M 50HF	55NiCrMoV6 S6-5-2 50CrV4	1.2713 1.3343 1.8159	1180-1370 1230-1420 1280-1450
<b>2</b>	<b>Stal nierdzewna</b>	<b>Stainless steel</b>	<b>Rostbeständige Stähle</b>				
2.1	Stal ferrytyczna martenzytyczna	Ferritic, martensitic steel	Ferritische, martensitische Stähle	4H13 1H13 H17 2H17N2	X 46 Cr 13 X 12 Cr 13 X 6 Cr 17 X 17 Cr Ni 16 2	1.4034 1.4006 1.4016 1.4057	≤ 800 650-850 400-630 900-1050
2.2	Stal austenityczna	Austenitic steel	Austenitische Stähle	0H18N9 00H17N14M2 00H18N10 1H18N9T H18N10MT	X5CrNi18 10 X2CrNiMo17 13 2 X2CrNi18 9 X6CrNiTi18 10 X6CrNiMoTi17 12 2	1.4301 1.4404 1.4306 1.4541 1.4571	500-700 500-700 460-680 500-700 500-700
2.3	Stal żaroodporna	Heat-resistant steel	Hitzebeständige Stähle	H13JS H18JS H20N12S2 H25N20S2	X 10 Cr Al 13 X 10 Cr Al 18 X 15 Cr Ni Si20 12 X 15 Cr Ni Si 25 20	1.4724 1.4742 1.4828 1.4841	450-650 500-700 500-750 550-800
<b>3</b>	<b>Żeliwo</b>	<b>Cast iron</b>	<b>Gusswerkstoffe</b>				
3.1	Żeliwo szare	Grey cast iron	Gusseisen	ZI 150 ZI 200 ZI 250 ZI 300	GG 15 GG 20 GG 25 GG 30	0.6015 0.6020 0.6025 0.6030	110-150 150-200 200-250 240-270
3.2	Żeliwo szare	Grey cast iron	Gusseisen				
3.3	Żeliwo sferoidalne, ciągliwe	Spheroidal and malleable cast iron	Gusseisen mit Kugelgraphit und Temperguss	Zs40012 Zs50007 Zs60002 Zs70002	GGG40 GGG50 GGG60 GGG70	0.7040 0.7050 0.7060 0.7070	400 500 600 700
3.4	Żeliwo sferoidalne, ciągliwe	Spheroidal and malleable cast iron	Gusseisen mit Kugelgraphit und Temperguss	P55-04 W35-04	GTS55-05 GTW35-04	0.8055 0.8035	550 350



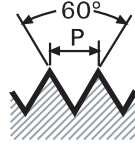
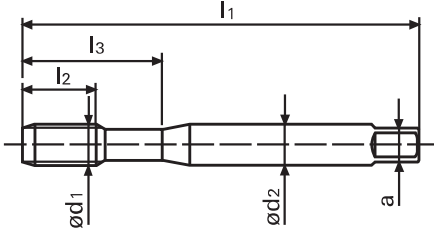
ERMAK TEKNİK MALZEME



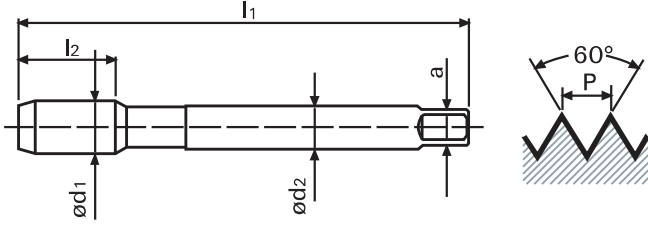
## MAKİNA KILAVUZLARI HSS



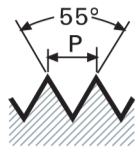
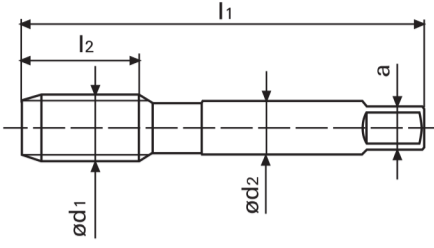
## METRİK NORMAL DİŞ MAKİNA KILAVUZLARI



										FORMU		
										C	B	C R35
<b>Uygun Kullanım Yeri</b>  HSS : Yüksek hız çeliği										DELİK TİPİ		
										KALİTESİ		
										AĞIZ ŞEKLİ		
										TOLERANSI		
ÖLÇÜ												
M ø d1	P	l1	l2	l2 R35	l3	ø d2	a		Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	
M 3	0.5	56	10	5	18	3.5	2.7	2.5	4.13	5.50	6.48	
M 3.5	0.6	56	12	6	20	4	3	2.9	4.48	5.50	6.48	
M 4	0.7	63	12	7	21	4.5	3.4	3.3	4.13	5.50	6.48	
M 4.5	0.75	70	14	7.5	25	6	4.9	3.8	4.48	5.99	7.04	
M 5	0.8	70	14	8	25	6	4.9	4.2	4.48	5.99	7.04	
M 6	1	80	18	10	30	6	4.9	5	4.48	5.99	7.04	
M 7	1	80	18	10	30	7	5.5	6	5.39			
M 8	1.25	90	20	13	35	8	6.2	6.8	5.39	7.21	8.51	
M 9	1.25	90	20	13	35	9	7	7.8				
M 10	1.5	100	20	15	39	10	8	8.5	6.90	9.31	11.03	

**METRİK NORMAL DIŞ MAKİNA KILAVUZLARI**


Uygun Kullanım Yeri								FORMU	C	B	C R35
HSS : Yüksek hız çeliği								DELİK TİPİ			
								KALİTESİ	HSS	HSS	HSS
								AĞIZ ŞEKLİ	C/2P	B/4P	R35/2P
								TOLERANSI	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)
ÖLÇÜ								Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	
M ø d1	P	l1	l2	l2 R35	ø d2	a					
M 4	0.7	63	12	7	2.8	2.1	3.3	<b>4.52</b>	<b>6.06</b>	<b>7.14</b>	
M 5	0.8	70	14	8	3.5	2.7	4.2	<b>4.94</b>	<b>6.58</b>	<b>7.77</b>	
M 6	1	80	18	10	4.5	3.4	5	<b>4.94</b>	<b>6.58</b>	<b>7.77</b>	
M 8	1.25	90	20	13	6	4.9	6.8	<b>5.99</b>	<b>7.95</b>	<b>9.31</b>	
M 10	1.5	100	20	15	7	5.5	8.5	<b>7.56</b>	<b>10.22</b>	<b>12.15</b>	
M 12	1.75	110	24	18	9	7	10.2	<b>9.49</b>	<b>12.43</b>	<b>18.59</b>	
M 14	2	110	28	20	11	9	12	<b>12.78</b>	<b>16.87</b>	<b>25.24</b>	
M 16	2	110	30	20	12	9	14	<b>13.76</b>	<b>18.10</b>	<b>27.06</b>	
M 18	2.5	125	32	25	14	11	15.5	<b>18.80</b>	<b>24.78</b>	<b>37.17</b>	
M 20	2.5	140	32	25	16	12	17.5	<b>19.99</b>	<b>26.22</b>	<b>39.41</b>	
M 22	2.5	140	32	25	18	14.5	19.5	<b>25.41</b>	<b>33.46</b>	<b>50.19</b>	
M 24	3	160	36	30	18	14.5	21	<b>26.36</b>	<b>34.67</b>	<b>52.05</b>	
M 27	3	160	36	30	20	16	24	<b>33.88</b>	<b>44.66</b>	<b>66.82</b>	
M 30	3.5	180	40	35	22	18	26.5	<b>41.37</b>	<b>54.53</b>	<b>81.73</b>	
M 33	3.5	180	40	35	25	20	29.5	<b>88.20</b>			
M 36	4	200	50	40	28	22	32	<b>116.00</b>			
M 39	4	200	50	40	32	24	35	<b>145.25</b>			
M 42	4.5	200	58	45	32	24	37.5	<b>174.30</b>			
M 45	4.5	220	58	45	36	29	40.5	<b>193.55</b>			
M 48	5	250	65	50	36	29	43	<b>127.13</b>			
M 52	5	250	65	50	40	32	47	<b>251.65</b>			



## Uygun Kullanım Yeri

Ms : Kısa talaş veren pirinç için

## KULLANIM YERİ

Ms (Sarı İçin)

D (SOL)

## DELİK TİPİ



## KALİTESİ

HSS

HSS

## AĞIZ ŞEKLİ

E/1P

D/4P

## TOLERANSI

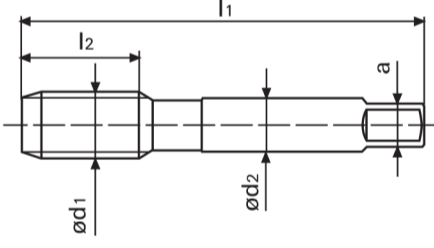
A

A

## ÖLÇÜ

M ø d1	ø d1	1"/p	P	l1	l2	ø d2	a		Birim Fiyatı Euro	Birim Fiyatı Euro
G - 1/16"	7.723	28	0.907	52	14	5.6	4.5	6.7	7.17	9.85
G - 1/8"	9.728	28	0.907	59	15	8	6.3	8.8	7.92	10.89
G - 1/4"	13.157	19	1.337	67	19	10	8	11.8	12.55	17.28
G - 3/8"	16.662	19	1.337	75	21	12.5	10	15.25	19.45	26.78
G - 1/2"	20.955	14	1.814	87	26	16	12.5	19	25.02	34.43
G - 5/8"	22.911	14	1.814	91	26	18	14	21	30.77	42.38
G - 3/4"	26.441	14	1.814	96	28	20	16	24.5	34.14	47.00
G - 7/8"	30.201	14	1.814	102	29	22.4	18	28.25	54.98	75.69
G - 1"	33.249	11	2.309	109	33	25	20	30.75	56.24	77.41
G - 1.1/8"	37.897	11	2.309	116	35	28	22.4	35.5	80.48	110.81
G - 1.1/4"	41.910	11	2.309	119	36	31.5	25	39.5	104.75	144.20
G - 1.3/8"	44.323	11	2.309	123	36	31.5	25	42	120.16	165.41
G - 1.1/2"	47.803	11	2.309	125	37	35.5	28	45	135.52	186.54
G - 1.3/4"	53.746	11	2.309	132	39	35.5	28	51	150.65	207.36
G - 2"	59.614	11	2.309	140	41	40	31.5	57	195.74	269.44
G - 2.1/4"	65.710	11		160	41	50	39		242.90	334.32
G - 2.1/2"	75.184	11		160	41	50	39		289.75	398.82
G - 3"	87.884	11		160	41	50	39			

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## Uygun Kullanım Yeri

Ms : Kısa talaş veren pirinç için

## KULLANIM YERİ

Ms (Sarı İçin)

Ms (Sarı İçin)  
+ 0.1 Tolerans  
Kaplama Öncesi

D (SOL)

## DELİK TİPİ



## KALİTESİ

HSS

HSS

HSS

## AĞIZ ŞEKLİ

E/1P

E/1P

D/4P

## TOLERANSI

A

A

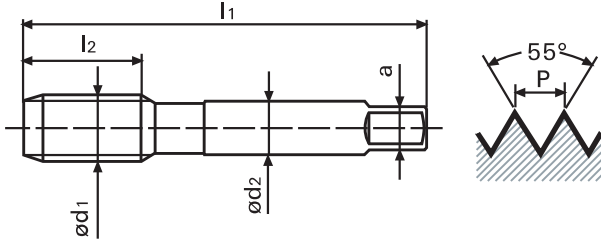
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## ÖLÇÜ

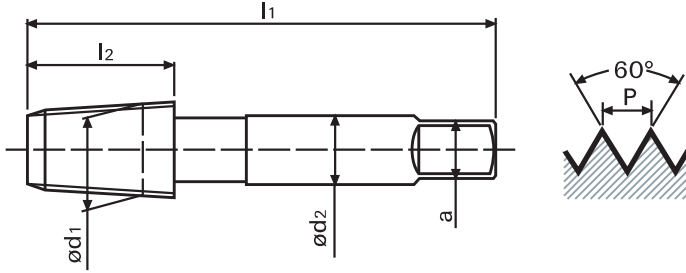
M ø d1	ø d1	1"/p	P	l1	l2	ø d2	a		Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
G - 1/16"	7.723	28	0.907	63	18	6	4.9	6.7	7.17		9.85
G - 1/8"	9.728	28	0.907	63	18	7	5.5	8.8	7.92		10.89
G - 1/4"	13.157	19	1.337	70	22	11	9	11.8	12.55		17.28
G - 3/8"	16.662	19	1.337	70	22	12	9	15.25	19.45	38.90	26.78
G - 1/2"	20.955	14	1.814	80	22	16	12	19	25.02	40.73	34.43
G - 5/8"	22.911	14	1.814	80	22	18	14.5	21	30.77		42.38
G - 3/4"	26.441	14	1.814	90	22	20	16	24.5	34.14	83.25	47.00
G - 7/8"	30.201	14	1.814	90	22	22	18	28.25	54.98		75.69
G - 1"	33.249	11	2.309	100	25	25	20	30.75	56.24	140.04	77.41
G - 1.1/8"	37.897	11	2.309	125	36	28	22	35.5	80.48		110.81
G - 1.1/4"	41.910	11	2.309	125	36	32	24	39.5	104.75	199.17	144.20
G - 1.3/8"	44.323	11	2.309	125	36	36	29	42	120.16		165.41
G - 1.1/2"	47.803	11	2.309	140	40	36	29	45	135.52	274.37	186.54
G - 1.3/4"	53.746	11	2.309	140	40	40	32	51	150.65		207.36
G - 2"	59.614	11	2.309	160	40	45	35	57	195.74		269.44
G - 2.1/4"	65.710	11							242.90		334.32
G - 2.1/2"	75.184	11							289.75		398.82
G - 3"	87.884	11									

240 A



**G BORU DIŞ UZUN MAKİNA KILAVUZLARI**


Uygun Kullanım Yeri		FORMU								C	C (SOL)
HSS : Yüksek hız çeliği		DELİK TİPİ									
		KALİTESİ								HSS	HSS
		AĞIZ ŞEKLİ								C/2P	C/2P
		TOLERANSI								A	A
		ÖLÇÜ								Birim Fiyatı Euro	Birim Fiyatı Euro
M ø d1	ø d1	1"/p	P	l1	l2	ø d2	a				
G - 1/16"	7.723	28	0.907	90	17	6	4.9	6.7	<b>14.20</b>		
G - 1/8"	9.728	28	0.907	90	18	7	5.5	8.8	<b>15.10</b>		
G - 1/4"	13.157	19	1.337	100	22	11	9	11.8	<b>24.90</b>		
G - 3/8"	16.662	19	1.337	100	22	12	9	15.25	<b>34.00</b>		
G - 1/2"	20.955	14	1.814	125	25	16	12	19	<b>37.20</b>		
G - 5/8"	22.911	14	1.814	125	25	18	14.5	21	<b>57.80</b>		
G - 3/4"	26.441	14	1.814	140	28	20	16	24.5	<b>67.76</b>		
G - 7/8"	30.201	14	1.814	150	28	22	18	28.25	<b>95.00</b>		
G - 1"	33.249	11	2.309	160	30	25	20	30.75	<b>124.00</b>		
G - 1.1/8"	37.900	11	2.309	170	30	28	22	35.50	<b>185.00</b>		
G - 1.1/4"	41.910	11	2.309	170	30	32	24	39.50	<b>193.40</b>		
G - 1.3/8"	41.910	11	2.309	170	30	32	24	42	<b>206.00</b>		
G - 1.1/2"	47.800	11	2.309	190	32	36	29	45.25	<b>206.00</b>		
G - 1.3/4"	53.750	11		190	32	40	32	51	<b>275.00</b>		
G - 2"	59.610	11		220	32	45	35	57	<b>347.00</b>		
G - 2.1/2"	75.810	11		275	40	50	39	73			
G - 3"											


**Uygun Kullanım Yeri**

HSS : Yüksek hız çeliği

**FORMU**

NPT

**DELİK TİPİ**

**KALİTESİ**

HSS

**AĞIZ ŞEKLİ**

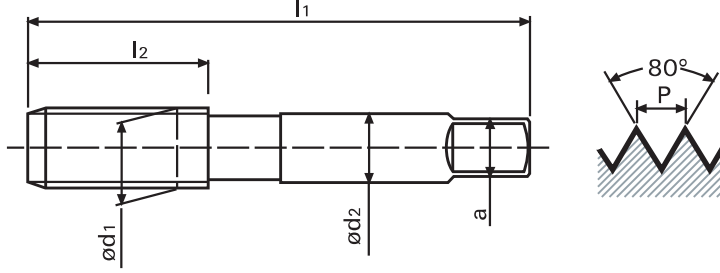
3P

**TOLERANSI**

-

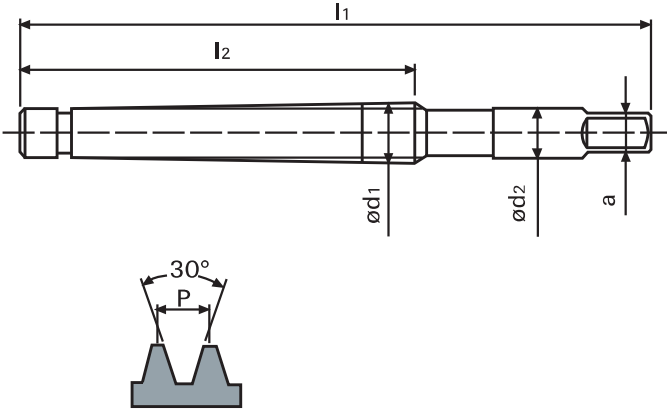
**ÖLÇÜ**

NPT ø d <sub>1</sub>	1"/p	l <sub>1</sub>	l <sub>2</sub>	ø d <sub>2</sub>	a		Birim Fiyatı Euro
1/8"	27	59	15	8	6.3	8.5	<b>18.77</b>
1/4"	18	67	22	10	8	11.1	<b>30.29</b>
3/8"	18	75	22	12.5	10	14.7	<b>36.52</b>
1/2"	14	87	27	16	12.5	18	<b>46.31</b>
3/4"	14	96	28	20	16	23.25	<b>57.19</b>
1"	11.1/2	109	35	25	20	29.25	<b>83.88</b>

**Pg BORU DIŞ MAKİNA KILAVUZLARI**


Uygun Kullanım Yeri		FORMU		Pg					
HSS : Yüksek hız çeliği		KULLANIM YERİ		HSS					
		DELİK TİPİ							
		KALİTESİ		HSS					
		TOLERANSI							
ÖLÇÜ									
Pg	d1	1"/p	P	l1	l2	d2	a		Fiyat Euro
Pg7	12.5	20	1.27	65	18	9	7.1	11.4	23.29
Pg9	15.2	18	1.411	70	20	12.5	10	14.0	24.79
Pg11	18.6	18	1.411	75	22	16	12.5	17.25	29.31
Pg13,5	20.4	18	1.411	80	22	18	14	19.0	34.27
Pg16	22.5	18	1.411	85	22	20	16	21.25	39.24
Pg21	28.3	16	1.588	95	25	25	20	27.0	43.42
Pg29	37.0	16	1.588	105	28	31.5	25	35.5	101.15
Pg36	47.0	16	1.588	120	32	40	31.5	45.5	210.15
Pg42	54.0	16	1.588	130	36	40	31.5	52.5	231.34

## TR TRAPEZ MAKİNA KLAVUZLARI



Uygun Kullanım Yeri							FORMU	TR	TR (SOL)
HSS : Yüksek hız çeliği							DELİK TİPİ	Max. 2xd <sub>1</sub>	Max. 2xd <sub>1</sub>
							KALİTESİ	HSS	HSS
							AĞIZ ŞEKLİ	~24P	~24P
							TOLERANSI	7H	7H
							ÖLÇÜ		
TR ø d <sub>1</sub>	P	l <sub>1</sub>	l <sub>2</sub>	ø d <sub>2</sub>	a		Euro	Euro	
Tr 10 x 2	2	115	68	7	5.5	8	212.00	233.20	
Tr 12 x 3	3	155	99	8	6.3	9	250.68	275.60	
Tr 14 x 3	3	160	99	10	8	11	254.23	280.00	
Tr 16 x 4	4	200	132	11.2	9	12	272.00	298.40	
Tr 18 x 4	4	205	132	12.5	10	14	279.63	307.68	
Tr 20 x 4	4	210	132	14	11.2	16	287.40	316.15	
Tr 22 x 5	5	250	165	16	12.5	17	322.70	354.98	
Tr 24 x 5	5	255	165	18	14	19	380.28	418.30	
Tr 26 x 5	5	265	165	20	16	21	394.33	433.75	
Tr 28 x 5	5	270	165	22.4	18	23	420.55	462.60	
Tr 30 x 6	6	305	198	22.4	18	24	471.60	518.78	
Tr 32 x 6	6	315	198	25	20	26	492.18	541.40	
Tr 36 x 6	6	325	198	28	22.4	30	533.38	586.70	
Tr 10 x 1.5	1.5	100	45	7	5.5	8.5			
Tr 12 x 2	2	120	60	8	6.3	10			
Tr 14 x 2	2	130	60	10	8	12			
Tr 16 x 2	2	135	60	11.2	9	14			
Tr 18 x 2	2	140	60	12.5	10	16			
Tr 20 x 2	2	145	60	14	11.2	18			
Tr 22 x 3	3	185	90	16	12.5	19			
Tr 24 x 3	3	190	90	18	14	21			
Tr 26 x 3	3	195	90	20	16	23			
Tr 28 x 3	3	205	90	22.4	18	25			
Tr 30 x 3	3	205	90	22.4	18	27			

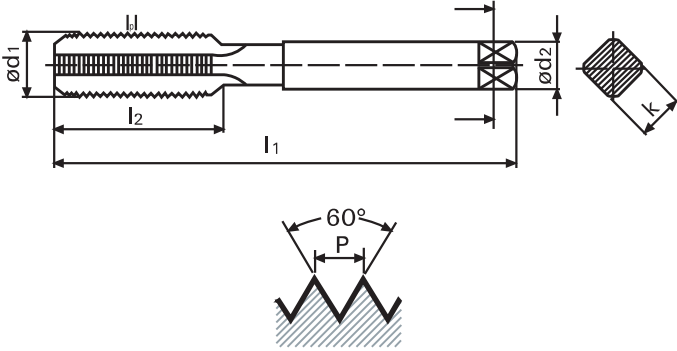


ERMAK TEKNİK MALZEME

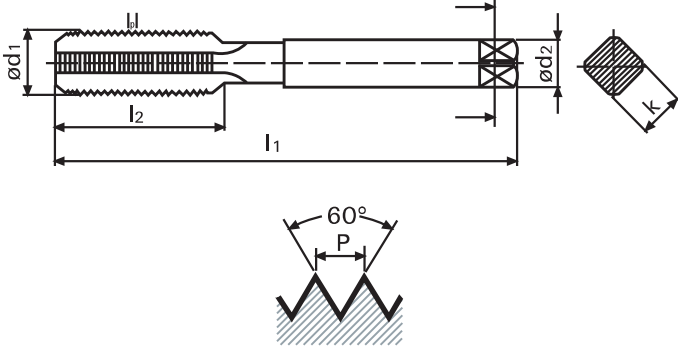


## EL KILAVUZLARI





Uygun Kullanım Yeri							ÜÇLÜ SET	ÜÇLÜ SET	ÜÇLÜ SET (SOL)	
<b>HSS</b> : Yüksek hız çeliği için  <b>INOX</b> : Paslanmaz ve aside dayanıklı çelik için							KULLANIM YERİ	HSS	INOX	HSS
							DELİK TİPİ			
							KALİTESİ	HSS	HSSE	HSS
							TOLERANSI	ISO-2 (6H)	ISO-2 (6H)	ISO-2 (6H)
ÖLÇÜ							Fiyat Euro	Fiyat Euro	Fiyat Euro	
M $\phi d_1$	P	$l_1$	$l_2$	$\phi d_2$	k					
M 3	0.50	40	11	3.50	2.70	2.5	8.02	17.34	12.71	
M 3.5	0.60	45	13	4.00	3.00	2.9	9.59		15.21	
M 4	0.70	45	13	4.50	3.40	3.3	8.02	17.34	12.71	
M 4.5	0.75	50	16	6.00	4.90	3.8	9.59		15.21	
M 5	0.80	50	16	6.00	4.90	4.2	8.23	17.85	13.06	
M 6	1.00	56	19	6.00	4.90	5	8.81	19.11	13.96	
M 7	1.00	56	19	6.00	4.90	6	15.06		23.83	
M 8	1.25	63	22	6.00	4.90	6.8	11.56	25.06	18.36	
M 9	1.25	63	22	7.00	5.50	7.8	20.40		32.33	
M10	1.50	70	24	7.00	5.50	8.5	15.71	34.00	24.87	
M11	1.50	70	24	8.00	6.20	9.5	27.34	43.28	43.32	
M12	1.75	75	28	9.00	7.00	10.2	19.96	60.18	31.64	
M14	2.00	80	30	11.00	9.00	12	27.78	72.15	44.01	
M16	2.00	80	32	12.00	9.00	14	33.29		52.75	
M18	2.50	95	34	14.00	11.00	15.5	46.85		74.22	
M20	2.50	95	34	16.00	12.00	17.5	51.65		81.85	
M22	2.50	100	34	18.00	14.50	19.5	57.66		91.37	
M24	3.00	110	38	18.00	14.50	21	64.29		101.89	
M27	3.00	110	38	20.00	16.00	24	99.72		158.05	
M30	3.50	125	45	22.00	18.00	26.5	118.32		187.49	
M33	3.50	125	50	25.00	20.00	29.5	180.54		286.10	
M36	4.00	150	56	28.00	22.00	32	209.95		332.69	
M39	4.00	150	60	32.00	24.00	35	238.03		377.17	
M42	4.50	150	60	32.00	24.00	37.5	272.88		432.42	
M45	4.50	160	65	36.00	29.00	40.5	323.48		512.59	
M48	5.00	180	70	36.00	29.00	43	369.34		585.21	
M52	5.00	180	70	40.00	32.00	47	430.85		682.70	

**METRİK İNCE DİŞ İKİ PARÇALI EL KILAVUZLARI**


**Uygun Kullanım Yeri**

HSS : Yüksek hız çeliği için

**KULLANIM YERİ**

**DELİK TİPİ**

**KALİTESİ**

**TOLERANSI**

İKİLİ SET

HSS



HSS

ISO-2 (6H)

İKİLİ SET (SOL)

HSS



HSS

ISO-2 (6H)

**ÖLÇÜ**

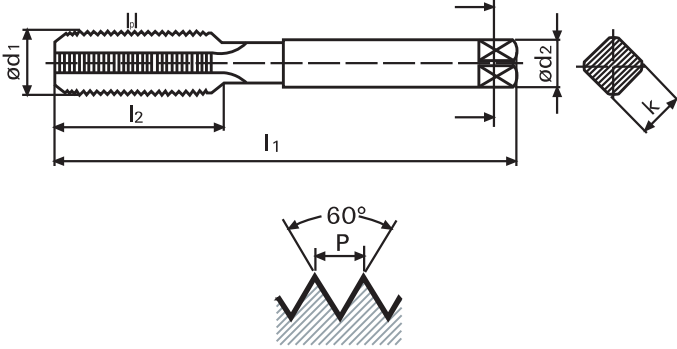
MF $\phi d_1$	P	$l_1$	$l_2$	$\phi d_2$	k	
M 4 x 0.5						
M 4.5 x 0.5						
M 5 x 0.5						
M 6 x 0.75	0.75	50	14	6	4.9	5.2
M 7 x 0.75						
M 8 x 0.75	0.75	50	19	6	4.9	7.2
M 8 x 1	1.00	56	20	6	4.9	7
M 9 x 0.75						
M 9 x 1						
M 10 x 0.75	0.75	63	20	7	5.5	9
M 10 x 1	1.00	63	20	7	5.5	9
M 10 x 1.25	1.25	70	22	7	5.5	8.8
M 12 x 1	1.00	70	22	9	7	11
M 12 x 1.25	1.25	70	22	9	7	10.8
M 12 x 1.5	1.50	70	22	9	7	10.5
M 14 x 1	1.00	70	22	11	9	13
M 14 x 1.25	1.25	70	22	11	9	12.8
M 14 x 1.5	1.50	70	22	11	9	12.5
M 15 x 1	1.00	80	22	12	9	14.5
M 15 x 1.5	1.50	80	22	12	9	14.5
M 16 x 1	1.00	80	22	12	9	15
M 16 x 1.5	1.50	80	22	12	9	14.5
M 17 x 1	1.00	80	22	12	11	15
M 18 x 1	1.00	80	22	12	11	16.5
M 18 x 1.5	1.50	80	22	14	11	16.5
M 18 x 2	2.00	80	22	14	11	16.5
M 20 x 1	1.00	80	22	16	12	18.5
M 20 x 1.5	1.50	80	22	16	12	18.5
M 20 x 2	2.00	80	22	16	12	18
M 20 x 3	3.00	80	22	16	12	17.5

Fiyat  
Euro

Fiyat  
Euro

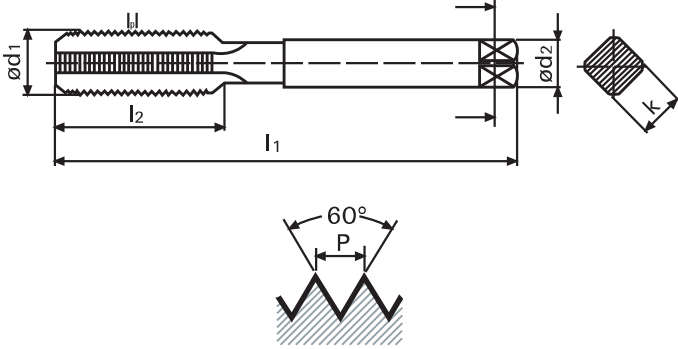
7.45	11.77
11.56	18.32
7.68	12.11
8.23	13.02
13.06	20.69
10.00	15.86
9.15	14.48
27.20	43.10
17.68	28.02
13.67	21.64
12.82	20.34
13.67	21.64
17.37	27.54
17.37	27.54
17.37	27.54
24.07	38.14
24.07	38.14
24.07	38.14
37.81	59.91
37.81	59.91
28.93	45.82
28.93	45.82
62.49	99.04
34.41	54.52
34.41	54.52
34.41	54.52
37.81	59.91
37.81	59.91
37.81	59.91




## METRİK İNCE DİŞ İKİ PARÇALI EL KILAVUZLARI



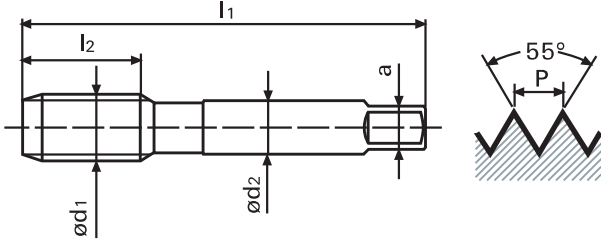
Uygun Kullanım Yeri								İKİLİ SET	İKİLİ SET (SOL)	
HSS : Yüksek hız çeliği için								KULLANIM YERİ	HSS	HSS
								DELİK TİPİ		
								KALİTESİ	HSS	HSS
								TOLERANSI	ISO-2 (6H)	ISO-2 (6H)
ÖLÇÜ								Fiyat Euro	Fiyat Euro	
MF $\phi d_1$	P	$l_1$	$l_2$	$\phi d_2$	k					
M 22 x 1	1.00	80	22	18	14.5	20.5	42.26	66.93		
M 22 x 1.5	1.50	80	22	18	14.5	20.5	42.26	66.93		
M 22 x 2	2.00	80	22	18	14.5	20.5	42.26	66.93		
M 24 x 1	1.00	90	22	18	14.5	20.5	47.19	74.78		
M 24 x 1.5	1.50	90	22	18	14.5	22.5	47.19	74.78		
M 24 x 2	2.00	90	22	18	14.5	22.5	47.19	74.78		
M 25 x 1.5	1.50	90	22	18	14.5	23	112.95	178.99		
M 25 x 2	2.00	90	22	18	14.5	23	132.94	210.67		
M 26 x 1.5	1.50	90	22	18	14.5	21	112.95	178.99		
M 27 x 1	1.00	90	22	20	16		112.95	178.99		
M 27 x 1.5	1.50	90	22	20	16	24	73.10	115.85		
M 27 x 2	2.00	90	22	20	16	24	73.10	115.85		
M 28 x 1	1.00	90	22	20	16	26	134.27	212.78		
M 28 x 1.5	1.50	90	22	20	16	26.5	86.73	137.40		
M 28 x 2	2.00	90	22	20	16	26.5	86.73	137.40		
M 30 x 1	1.00	90	22	22	18	28.5	86.73	137.40		
M 30 x 1.5	1.50	90	22	22	18	28.5	86.73	137.40		
M 30 x 2	2.00	90	22	22	18	28	86.73	137.40		
M 30 x 3	3.00	90	22	22	18	28	86.73	137.40		
M 32 x 1.5	1.50	90	22	22	18	30.5	156.47	247.91		
M 32 x 2	2.00	90	22	22	18	30.5	156.47	247.91		
M 33 x 1.5	1.50	100	25	25	20	31.5	156.47	247.91		
M 33 x 2	2.00	100	25	25	20	31	156.47	247.91		
M 33 x 3	3.00	100	25	25	20	31	156.47	247.91		
M 35 x 1.5	1.50	100	25				181.97	288.34		
M 36 x 1.5	1.50	100	25	28	22	34.5	181.97	288.34		
M 36 x 2	2.00	125	33	28	22	34	181.97	288.34		
M 36 x 3	3.00	125	33	28	22	33	181.97	288.34		
M 38 x 1.5							206.28	326.87		
M 39 x 1.5							206.28	326.87		



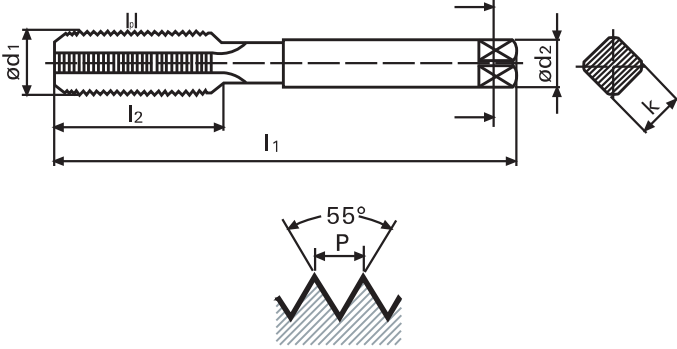
**METRİK İNCE DİŞ İKİ PARÇALI EL KILAVUZLARI**


Uygun Kullanım Yeri							İKİLİ SET	İKİLİ SET (SOL)	
<b>HSS</b> : Yüksek hız çeliği için							KULLANIM YERİ	HSS	
							DELİK TİPİ		
							KALİTESİ	HSS	HSS
							TOLERANSI	ISO-2 (6H)	ISO-2 (6H)
ÖLÇÜ							Fiyat Euro	Fiyat Euro	
MF $\varnothing d_1$	P	$l_1$	$l_2$	$\varnothing d_2$	k				
M 39 x 2							206.28	326.87	
M 39 x 3							206.28	326.87	
M 40 x 1.5							206.28	326.87	
M 40 x 2							206.28	326.87	
M 40 x 3							206.28	326.87	
M 42 x 1.5							236.50	374.80	
M 42 x 2							236.50	374.80	
M 42 x 3							236.50	374.80	
M 42 x 4							236.50	374.80	
M 45 x 1.5							280.33	444.23	
M 45 x 2							280.33	444.23	
M 45 x 3							280.33	444.23	
M 45 x 4							280.33	444.23	
M 48 x 1.5							320.08	507.20	
M 48 x 2							320.08	507.20	
M 48 x 3							320.08	507.20	
M 48 x 4							320.08	507.20	
M 50 x 1.5							373.42	591.68	
M 50 x 2							373.42	591.68	
M 50 x 3							373.42	591.68	
M 52 x 1.5							373.42	591.68	
M 52 x 2							373.42	591.68	
M 52 x 3							373.42	591.68	
M 52 x 4							373.42	591.68	

## G BORU DIŞ İKİ PARÇALI EL KILAVUZLARI



Uygun Kullanım Yeri		İKİLİ SET		İKİLİ SET (SOL)						
HSS : Yüksek hız çeliği için		KULLANIM YERİ	HSS		HSS					
		DELİK TİPİ								
		KALİTESİ	HSS	HSS	HSS					
		AĞIZ ŞEKLİ	5P	2P						
		TOLERANSI	A		A					
ÖLÇÜ									Fiyat	Fiyat
G	ø d1	1"/p	P	l1	l2	ø d2	a		Euro	Euro
G - 1/16"	7.723	28	0.907	52	14	5.6	4.5	6.7		
G - 1/8"	9.728	28	0.907	59	15	8	6.3	8.8	14.38	22.76
G - 1/4"	13.157	19	1.337	67	19	10	8	11.8	26.93	42.67
G - 3/8"	16.662	19	1.337	75	21	12.5	10	15.25	45.42	72.02
G - 1/2"	20.955	14	1.814	87	26	16	12.5	19.0	47.50	75.21
G - 5/8"	22.911	14	1.814	91	26	18	14	21.0	47.50	75.21
G - 3/4"	26.441	14	1.814	96	28	20	16	24.5	75.41	119.47
G - 7/8"	30.201	14	1.814	102	29	22.4	18	28.25	102.14	161.84
G - 1"	33.249	11	2.309	109	33	25	20	30.75	102.14	161.84
G - 1.1/8"	37.897	11	2.309	116	35	28	22.4	35.5	152.32	241.23
G - 1.1/4"	41.910	11	2.309	119	36	31.5	25	39.5	181.93	288.30
G - 1.3/8"	44.323	11	2.309	123	36	31.5	25	42.0	220.86	350.23
G - 1.1/2"	47.803	11	2.309	125	37	35.5	28	45.0	257.75	408.46
G - 1.3/4"	53.746	11	2.309	132	39	35.5	28	51.0	353.70	560.56
G - 2"	59.614	11	2.309	140	41	40	31.5	57.0	403.17	638.70

**Pg BORU DIŞ İKİ PARÇALI EL KILAVUZLARI**

**Uygun Kullanım Yeri**

HSS : Yüksek hız çeliği için

**KULLANIM YERİ**

İKİLİ SET


HSS

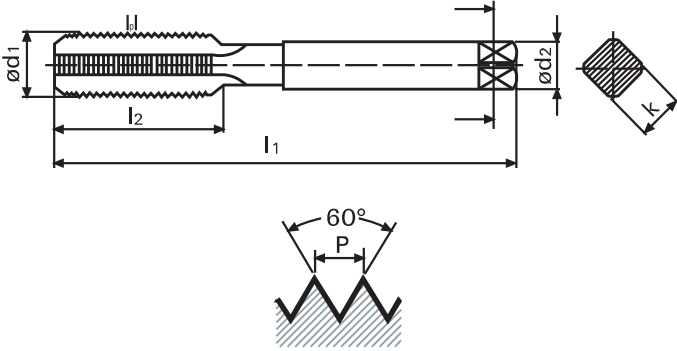
**DELİK TİPİ**

**KALİTESİ**

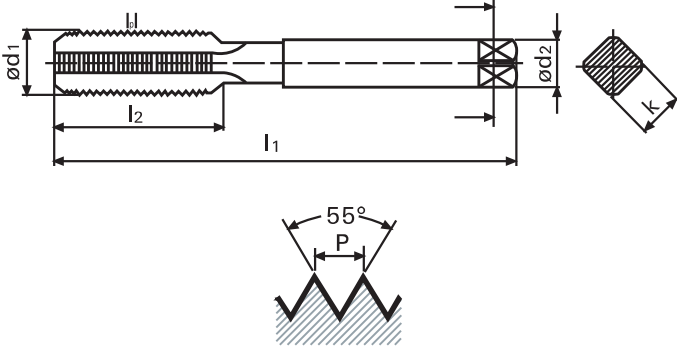
HSS

**TOLERANSI**
**ÖLÇÜ**

Pg	d <sub>1</sub>	1"/p	P	l <sub>1</sub>	l <sub>2</sub>	d <sub>2</sub>	a		Fiyat Euro
Pg7	12.5	20	1.27	65	18	9	7.1	11.4	<b>28.32</b>
Pg9	15.2	18	1.411	70	20	12.5	10	14.0	<b>30.09</b>
Pg11	18.6	18	1.411	75	22	16	12.5	17.25	<b>35.43</b>
Pg13,5	20.4	18	1.411	80	22	18	14	19.0	<b>41.58</b>
Pg16	22.5	18	1.411	85	22	20	16	21.25	<b>47.67</b>
Pg21	28.3	16	1.588	95	25	25	20	27.0	<b>52.60</b>
Pg29	37.0	16	1.588	105	28	31.5	25	35.5	<b>122.84</b>
Pg36	47.0	16	1.588	120	32	40	31.5	45.5	
Pg42	54.0	16	1.588	130	36	40	31.5	52.5	



Uygun Kullanım Yeri						ÜÇLÜ SET	ÜÇLÜ SET (SOL)	
HSS : Yüksek hız çeliği için						KULLANIM YERİ	HSS	HSS
						DELİK TİPİ		
						KALİTESİ	HSS	HSS
						TOLERANSI	ISO-2 (6H)	ISO-2 (6H)
ÖLÇÜ						Fiyat Euro	Fiyat Euro	
UNC ø d1 x P	l1	l2	ø d2	k				
No 5 x 40						26.45		
No 6 x 32	45	13	4	3	2.7	26.45		
No 8 x 32	45	13	4.5	3.4	3.5	26.45		
No 10 x 24	50	16	6	4.9	3.8	26.45		
No 12 x 24	50	17	6	4.9	4.5	26.45		
1/4" x 20	50	19	6	4.9	5.1	25.57		
5/16" x 18	56	22	6	4.9	6.5	27.44		
3/8" x 16	70	24	7	5.5	7.9	36.62		
7/16" x 14	70	24	8	6.2	9.3	50.97		
1/2" x 13	75	29	9	7	10.7	65.45		
9/16" x 12	80	30	11	9	12.3	70.99		
5/8" x 11	80	32	12	9	13.5	85.37		
3/4" x 10	95	40	14	11	16.5	132.33		
7/8" x 9	100	40	18	14.5	19.5	147.73		
1" x 8	110	50	20	16	22.25	206.55		
1.1/8" x 7						247.01		
1.1/4" x 7						252.04		
1.3/8" x 6						283.83		
1.1/2" x 6						386.68		
1.3/4" x 5						415.34		
2" x 4.1/2						503.85		

**BSW ÜÇ PARÇALI EL KILAVUZLARI**

**Uygun Kullanım Yeri**

HSS : Yüksek hız çeliği için

**KULLANIM YERİ**
**DELİK TİPİ**
**KALİTESİ**
**TOLERANSI**
**ÜÇLÜ SET**

HSS



HSS

ISO-2 (6H)

**ÜÇLÜ SET (SOL)**

HSS

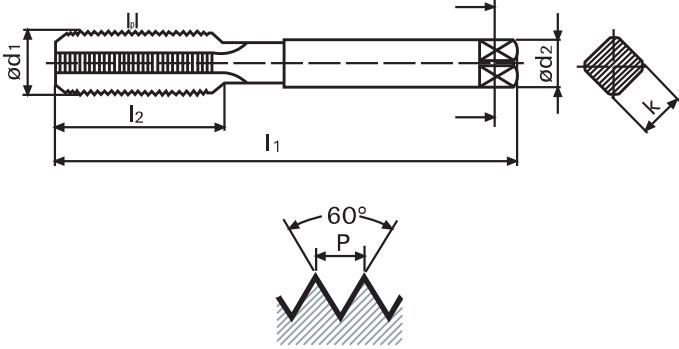


HSS

ISO-2 (6H)

**ÖLÇÜ**

BSW ø d1 x P	l1	l2	ø d2	k		Fiyat Euro	Fiyat Euro
W 1/8" x 40	40	11	3.5	2.7	2.5	<b>11.73</b>	
W 5/32" x 32	45	13	4.5	3.4			
W 3/16" x 24	50	16	6	4.9	3.6	<b>12.24</b>	
W 7/32" x 24	50	16	6	4.9			
W 1/4" x 20	50	19	6	4.9	5.1	<b>14.38</b>	
W 5/16" x 18	56	22	6	4.9	6.5	<b>15.06</b>	
W 3/8" x 16	70	24	7	5.5	7.9	<b>18.63</b>	
W 7/16" x 14	70	24	8	6.2	9.25	<b>25.16</b>	
W 1/2" x 12	75	29	9	7	10.5	<b>31.38</b>	
W 9/16" x 12	80	30	11	9	12	<b>37.20</b>	
W 5/8" x 11	80	32	12	9	13.5	<b>49.71</b>	
W 11/16" x 11						<b>119.85</b>	
W 3/4" x 10	95	40	14	11	16.5	<b>59.70</b>	
W 7/8" x 9	100	40	18	14.5	19.25	<b>77.83</b>	
W 1" x 8	110	50	20	16	22	<b>97.78</b>	
W 1,1/8-7						<b>118.80</b>	
W 1.1/4-7	151	51	22.4	18	28	<b>173.09</b>	
W 1.3/8-6						<b>280.33</b>	
1.1/2-6	170	60	28	22.4	33.5	<b>309.81</b>	
1.3/4-5						<b>416.40</b>	
2-4-1/2	200	70	35.5	28	44.5	<b>553.32</b>	




Uygun Kullanım Yeri						İKİLİ SET	İKİLİ SET (SOL)	
HSS : Yüksek hız çeliği için						KULLANIM YERİ	HSS	
						DELİK TİPİ		
						KALİTESİ	HSS	HSS
						TOLERANSI	ISO-2 (6H)	ISO-2 (6H)
ÖLÇÜ						Fiyat Euro	Fiyat Euro	
UNF ø d1 x P	l1	l2	ø d2	k				
No 5 x 44	40	11	3.5	2.7	2.7	20.26		
No 6 x 40	45	13	4	3	3	20.26		
No 8 x 36	45	13	4.5	3.4	3.5	20.26		
No 10 x 32	50	16	6	4.9	4.1	20.26		
No 12 x 28	50	17	6	4.9	4.65	20.26		
1/4 x 28	50	16	6	4.9	5.5	19.55		
5/16 x 24	56	22	6	4.9	6.9	21.11		
3/8 x 24	63	20	7	5.5	8.5	20.09		
7/16 x 20	63	20	8	6.2	9.9	24.92		
1/2 x 20	70	22	9	7	11.5	34.61		
9/16 x 18	70	22	11	9	13	34.61		
5/8 x 18	70	22	12	9	14.5	41.62		
3/4 x 16	80	22	14	11	17.5	64.29		
7/8 x 14	80	22	18	14.5	20.5	75.45		
1 x 12	90	22	18	14.5	23.3	94.79		
1.1/8-12						193.73		
1.1/4-12						197.68		
1.3/8-12						222.67		
1.1/2-12						303.21		


KOD: CZD - 17 HSS	TAKIMIN İÇİNDEKİ ÜRÜNLER				Takım Fiyatı Euro
	DIN-352-D HSS	Narzynki DIN WS ø25 x 9	PBPc Nr 1.5	PBGa	<b>124.10</b>
	M3, M4, M5, M6, M8, M10, M12	M3, M4, M5, M6, M8, M10, M12	2.5+8 mm	ø25 x 9	


KOD: CZD - 24 HSS	TAKIMIN İÇİNDEKİ ÜRÜNLER				Takım Fiyatı Euro
					<b>134.44</b>
	M3, M4, M5, M6, M8, M10, M12	M3, M4, M5, M6, M8, M10, M12	Nr. 2 zm.: 2.5+9 mm	ø25 x 9	


KOD: CZD - 40 HSS	TAKIMIN İÇİNDEKİ ÜRÜNLER						Takım Fiyatı Euro
							<b>280.64</b>
	M3, M4, M5, M6, M8, M10, M12, M14, M16, M20	M3, M4, M5, M6, M8, M10, M12, M14, M16, M20	0.4+6 mm	Nr 2 zm.: 2,5+9 mm Nr 3: 4,9+14 mm	25 x 9 mm 38 x 14 mm	4 x 90 mm	

KOD: CZD - 85 HSS	TAKIMIN İÇİNDEKİ ÜRÜNLER							Takım Fiyatı Euro
	ISO-529/2 HSS	Narzynki DIN HSS	MWGa	PBPc	PBGa		RWWe	<b>932,82</b>
	M3, M4, M5, M6, M8, M10, M12, M14, M16, M18, M20, M22, M24, M8x1, M10x1, M10x1.25, M12x1.25, M12x1.5, M14x1.25, M14x1.5, M16x1.5, M18x1.5, M20x1.5, M22x1.5, M24x1.5	M3, M4, M5, M6, M8, M10, M12, M14, M16, M18, M20, M22, M24, M8x1, M10x1, M10x1.25, M12x1.25, M12x1.5, M14x1.25, M14x1.5, M16x1.5, M18x1.5, M20x1.5, M22x1.5, M24x1.5	0,4+6 mm	Nr 2 zm. 2,5+9 mm  Nr 3: 4,9+14 mm	25 x 9 38 x 14 45 x 18 55 x 22	Nr 1 (M2+M5)	4 x 90  38 x 2 45 x 2 55 x 3	

KOD	ÖLÇÜ ARALIĞI	Birim Fiyatı Euro	ÇELİK KILAVUZ KOLU
PBPc - 1	M1 - M10	17.10	
PBPc - 1.5	M3 - M12	21.60	
PBPc - 2	M4.5 - M16	21.60	
PBPc - 3	M4.5 - M20	21.60	
PBPc - 4	M9 - M27	40.95	

KOD	ÖLÇÜ ARALIĞI	Birim Fiyatı Euro	CİRCİRLİ KILAVUZ KOLU
Nr 1	M2 - M4	13.50	
Nr 2	M5 - M12	20.25	
Nr 3	M14 - M18	33.75	

KOD	ÖLÇÜ ARALIĞI	Birim Fiyatı Euro	CİRCİRLİ KILAVUZ KOLU
Nr 1 D Uzun Kol	M2 - M4 Uzun	19.13	
Nr 2 D Uzun Kol	M5 - M12 Uzun	27.57	

KOD	ÖLÇÜ ARALIĞI	Birim Fiyatı Euro	ÇELİK PAFTA KOLU
PBGa - 16x5	M1 - M2.5	6.75	
PBGa - 20x5	M3 - M4	7.65	
PBGa - 20x7	M4.5 - M6	7.65	
PBGa - 25x9	M7 - M9	9.00	
PBGa - 30x11	M10 - M11	9.90	
PBGa - 38x14	M12 - M14	13.05	
PBGa - 45x18	M16 - M20	19.80	
PBGa - 55x22	M22 - M24	30.60	
PBGa - 65x25	M27 - M36	42.30	



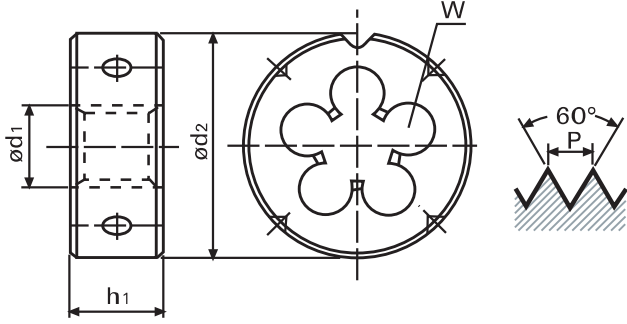


ERMAK TEKNİK MALZEME



## PAFTALAR

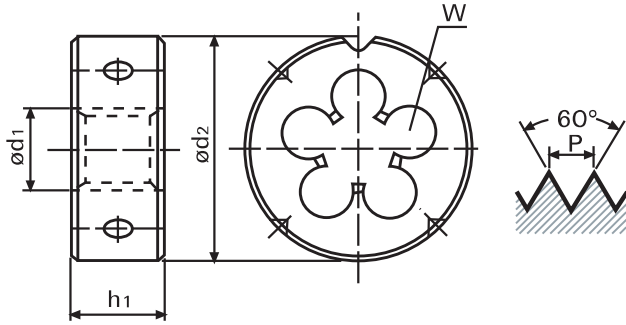


**METRİK NORMAL VİDALI PAFTALAR**


(SOL)

<b>Uygun Kullanım Yeri</b>  <b>HSS 800</b> : Yumuşak imalat çeliği ve tornalık malzeme için  <b>Ms</b> : Kısa talaş veren pirinç için  <b>INOX</b> : Paslanmaz ve aside dayanıklı çelik için	<b>KULLANIM YERİ</b>	800	Ms (Sarı için)	INOX	800
	<b>KALİTESİ</b>	HSS	HSS	HSSE	HSS
	<b>AĞIZ ŞEKLİ</b>	1.75 P	1.25 P	2.25 P	1.75 P
	<b>TOLERANSI</b>	6 g	6 g	6 g	6 g

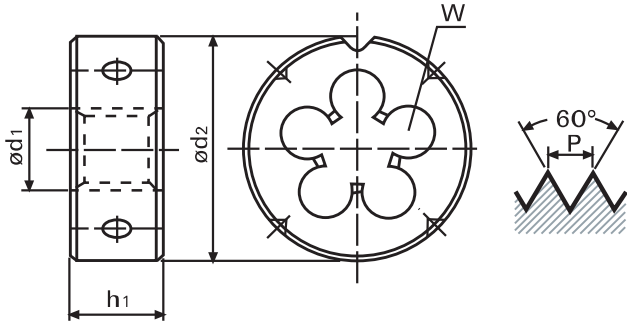
ÖLÇÜ					Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
M $\phi d_1$	P	$\phi d_2 \times h_1$	W		Euro	Euro	Euro	Euro
M 3	0.5	20 x 5	3	2.92	5.36	9.31	10.72	7.50
M 3.5	0.6	20 x 5	3	3.41	5.93	10.22		
M 4	0.7	20 x 5	3	3.90	5.05	8.74	10.11	7.09
M 4.5	0.75	20 x 7	3	4.40	5.93	10.22		
M 5	0.8	20 x 7	3	4.90	5.28	9.12	10.56	7.42
M 6	1	20 x 7	4	5.88	5.28	9.12	10.56	7.42
M 7	1	25 x 9	4	6.88	6.84	11.82		9.59
M 8	1.25	25 x 9	4	7.86	6.00	10.34	12.01	8.36
M 9	1.25	25 x 9	4	8.86	8.28	14.29		11.03
M 10	1.5	30 x 11	4	9.85	7.75	13.38	15.54	10.95
M 11	1.5	30 x 11	4	10.85	9.16	15.77		12.83
M 12	1.75	38 x 14	4	11.83	10.37	17.94	19.34	14.60
M 14	2	38 x 14	4	13.82	10.37	17.94	19.34	14.60
M 16	2	45 x 18	5	15.82	17.97	31.05	33.52	25.17
M 18	2.5	45 x 18	5	17.79	17.97	31.05	33.52	25.17
M 20	2.5	45 x 18	5	19.79	17.97	31.05	33.52	25.17
M 22	2.5	55 x 22	5	21.79	33.40	57.61	62.21	46.86
M 24	3	55 x 22	5	23.76	33.40	57.61	62.21	46.86
M 27	3	65 x 25	5	26.76	51.68	89.11	96.25	72.45
M 30	3.5	65 x 25	6	29.73	54.07	93.25	100.55	75.85
M 33	3.5	65 x 25	6	32.73	54.07	93.25	100.55	75.85
M 36	4	65 x 25	7	35.70	54.07	93.25	100.55	75.85
M 39	4	75 x 30	7	38.70	73.34	126.54	136.65	102.87
M 42	4.5	75 x 30	7	41.68	73.34	126.54	136.65	102.87
M 45	4.5	90 x 36	7	44.68	114.34	197.22	213.03	184.42
M 48	5	90 x 36	7	47.66	114.34	197.22	213.03	184.42
M 52	5	90 x 36	8	51.66	114.34	197.22	213.03	184.42
M 56	5.5	105 x 36	6	55.65	266.00			
M 60	5.5	105 x 36	8	59.65				
M 64	6	120 x 36	7	63.62				
M 68	6	120 x 36	8	67.62				

**METRİK İNCE VİDALI PAFTALAR**


(SOL)

Uygun Kullanım Yeri					KULLANIM YERİ	800	Ms (Sarı için)	INOX	800
<b>HSS 800</b> : Yumuşak imalat çeliği ve tornalık malzeme için  <b>Ms</b> : Kısa talaş veren pirinç için  <b>INOX</b> : Paslanmaz ve aside dayanıklı çelik için					KALİTESİ	HSS	HSS	HSSE	HSS
					AĞIZ ŞEKLİ	1.75 P	1.25 P	2.25 P	1.75 P
					TOLERANSI	6 g	6 g	6 g	6 g
					ÖLÇÜ				
MF ø d1	P	ø d2xh1	W		Euro	Euro	Euro	Euro	
M 3 x 0.35	0.35	20x 5	3	2.94	<b>6.76</b>	<b>10.12</b>	<b>13.48</b>	<b>9.44</b>	
M 3.5 x 0.35	0.35	20x 5	3	3.44	<b>7.52</b>	<b>11.24</b>	<b>15.00</b>	<b>10.47</b>	
M 3.5 x 0.5	0.5	20x 5	3	3.43					
M 4 x 0.5	0.5	20x 5	4	3.92	<b>6.40</b>	<b>9.64</b>	<b>12.84</b>	<b>9.01</b>	
M 4.5 x 0.5	0.5	20x 5	4	4.43					
M 5 x 0.5	0.5	20x 5	4	4.92	<b>6.68</b>	<b>10.00</b>	<b>13.36</b>	<b>9.35</b>	
M 5 x 0.75	0.75	20x 5	4	4.91	<b>6.68</b>	<b>10.00</b>	<b>13.36</b>	<b>9.35</b>	
M 5.5 x 0.75	0.75	20x 7	4	5.42					
M 6 x 0.5	0.5	20x 7	4	5.92	<b>6.68</b>	<b>10.00</b>	<b>13.36</b>	<b>9.35</b>	
M 6 x 0.75	0.75	20x 7	4	5.90	<b>6.68</b>	<b>10.00</b>	<b>13.36</b>	<b>9.35</b>	
M 7 x 0.75	0.75	25x 9	4	6.90	<b>8.64</b>	<b>12.96</b>	<b>17.24</b>	<b>12.11</b>	
M 8 x 0.5	0.5	25x 9	4	7.92	<b>7.56</b>	<b>11.36</b>	<b>15.12</b>	<b>10.65</b>	
M 8 x 0.75	0.75	25x 9	4	7.90	<b>7.56</b>	<b>11.36</b>	<b>15.12</b>	<b>10.65</b>	
M 8 x 1	1	25x 9	4	7.88	<b>7.56</b>	<b>11.36</b>	<b>15.12</b>	<b>10.65</b>	
M 9 x 0.75	0.75	25x 9	4	8.90	<b>10.48</b>	<b>15.72</b>	<b>21.00</b>	<b>14.65</b>	
M 9 x 1	1	25x 9	4	8.88	<b>10.48</b>	<b>15.72</b>	<b>21.00</b>	<b>14.65</b>	
M10 x 0.75	0.75	30x11	4	9.90	<b>9.80</b>	<b>14.68</b>	<b>19.56</b>	<b>13.71</b>	
M10 x 1	1	30x11	5	9.88	<b>9.00</b>	<b>13.44</b>	<b>17.96</b>	<b>12.54</b>	
M10 x 1.25	1.25	30x11	4	9.86	<b>8.56</b>	<b>12.80</b>	<b>17.08</b>	<b>11.98</b>	
M11 x 0.75	0.75	30x11	5	10.91	<b>10.48</b>	<b>15.72</b>	<b>21.00</b>	<b>14.70</b>	
M11 x 1	1	30x11	4	10.88	<b>10.48</b>	<b>15.72</b>	<b>21.00</b>	<b>14.70</b>	
M12 x 1	1	38x10	4	11.88	<b>12.00</b>	<b>18.00</b>	<b>24.04</b>	<b>16.81</b>	
M12 x 1.25	1.25	38x10	4	11.86	<b>11.52</b>	<b>17.28</b>	<b>23.00</b>	<b>16.08</b>	
M12 x 1.5	1.5	38x10	4	11.85	<b>11.52</b>	<b>17.28</b>	<b>23.00</b>	<b>16.08</b>	
M13 x 1	1	38x10	5	13.88	<b>13.04</b>		<b>24.04</b>	<b>16.81</b>	
M14 x 1	1	38x10	5	13.88	<b>12.00</b>	<b>18.00</b>	<b>24.04</b>	<b>16.81</b>	
M14 x 1.25	1.25	38x10	5	13.88	<b>12.00</b>			<b>16.08</b>	
M14 x 1.5	1.5	38x10	5	13.85	<b>11.52</b>	<b>17.28</b>	<b>23.00</b>	<b>16.08</b>	
M15 x 1	1	38x10	5	14.88	<b>13.00</b>	<b>19.48</b>	<b>25.96</b>	<b>18.19</b>	
M15 x 1.5	1.5	38x10	5	14.85	<b>12.32</b>	<b>18.44</b>	<b>24.56</b>	<b>17.24</b>	
M16 x 1	1	45x14	5	15.88	<b>20.80</b>	<b>31.20</b>	<b>41.56</b>	<b>29.14</b>	
M16 x 1.5	1.5	45x14	5	15.85	<b>19.80</b>	<b>29.72</b>	<b>39.64</b>	<b>27.76</b>	
M17 x 1	1	45x14	5	16.88	<b>20.80</b>	<b>31.20</b>	<b>41.56</b>	<b>29.14</b>	
M17 x 1.5	1.5	45x14	5	16.85	<b>19.80</b>	<b>29.72</b>	<b>39.64</b>	<b>27.76</b>	

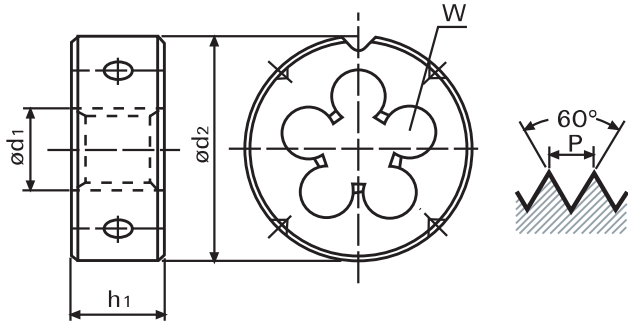
## METRİK İNCE VİDALI PAFTALAR



(SOL)

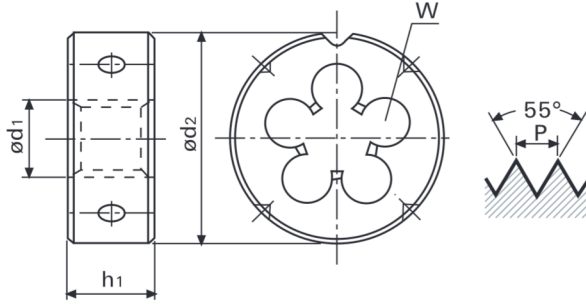
Uygun Kullanım Yeri	KULLANIM YERİ	800	Ms (Sarı için)	INOX	800
HSS 800 : Yumuşak imalat çeliği ve tornalık malzeme için	KALİTESİ	HSS	HSS	HSSE	HSS
Ms : Kısa talaş veren pirinç için	AĞIZ ŞEKLİ	1.75 P	1.25 P	2.25 P	1.75 P
INOX: Paslanmaz ve aside dayanıklı çelik için	TOLERANSI	6 g	6 g	6 g	6 g

ÖLÇÜ					Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
MF $\phi d_1$	P	$\phi d_2 \times h_1$	W		Euro	Euro	Euro	Euro
M 18 x 1	1	45 x 14	5	17.88	20.80	31.20	41.56	29.14
M 18 x 1.5	1.5	45 x 14	5	17.85	19.80	29.72	39.64	27.76
M 18 x 2	2	45 x 14	5	17.82	20.80	31.20	41.56	29.14
M 20 x 1	1	45 x 14	6	19.88	20.80	31.20	41.56	29.14
M 20 x 1.5	1.5	45 x 14	6	19.85	19.80	29.72	39.64	27.76
M 20 x 2	2	45 x 14	6	19.82	20.80	31.20	41.56	29.14
M 22 x 1	1	55 x 16	6	21.88	38.56	57.84	77.12	54.05
M 22 x 1.5	1.5	55 x 16	6	21.85	36.88	55.36	73.84	51.63
M 22 x 2	2	55 x 16	6	21.82	38.56	57.84	77.12	54.05
M 24 x 1	1	55 x 16	6	21.88	38.56	57.84	77.12	54.05
M 24 x 1.5	1.5	55 x 16	6	23.85	36.88	55.36	73.84	51.63
M 24 x 2	2	55 x 16	6	23.82	38.56	57.84	77.12	54.05
M 25 x 1	1	55 x 16	6	24.88	38.56	57.84	77.12	54.05
M 25 x 1.5	1.5	55 x 16	6	24.85	36.88	55.36	78.84	51.63
M 25 x 2	2	55 x 16	6	24.82	38.56	57.84	77.12	54.05
M 26 x 1.5	1.5	55 x 16	6	25.85	36.88	55.36	73.84	51.63
M 27 x 1	1	65 x 18	6	26.88	59.84	89.76	119.84	83.83
M 27 x 1.5	1.5	65 x 18	6	26.85	57.08	85.68	114.20	79.95
M 27 x 2	2	65 x 18	6	26.82	59.84	89.76	119.64	83.83
M 28 x 1	1	65 x 18	6	27.88	62.56	93.84	125.12	87.62
M 28 x 1.5	1.5	65 x 18	6	27.85	59.76	89.60	119.48	83.74
M 28 x 2	2	65 x 18	6	27.82	62.56	93.84	125.12	87.62
M 30 x 1	1	65 x 18	6	29.88	62.56	93.84	125.12	87.62
M 30 x 1.5	1.5	65 x 18	6	29.85	59.76	89.60	119.48	83.74
M 30 x 2	2	65 x 18	6	29.82	62.56	93.84	125.12	87.62
M 30 x 3	3	65 x 18	6	29.76	62.56	93.84	125.12	87.62
M 32 x 1.5	1.5	65 x 18	7	31.85	59.76	89.60	119.48	83.74
M 32 x 2	2	65 x 18	7	31.82	62.56	93.84	125.12	87.62
M 32 x 3	3	65 x 18	7	32.82	62.56			
M 33 x 1.5	1.5	65 x 18	7	32.85	59.76	89.60	119.48	83.74
M 33 x 2	2	65 x 18	7	32.82	62.56	93.84	125.12	87.62
M 33 x 3	3	65 x 18	7	32.76	62.56	93.84	125.12	87.62
M 35 x 1.5	1.5	65 x 18	7	34.85	59.76	89.60	119.48	83.74
M 36 x 1.5	1.5	65 x 18	7	35.85	59.76	89.60	119.48	83.74

**METRİK İNCE VİDALI PAFTALAR**

**(SOL)**

Uygun Kullanım Yeri	KULLANIM YERİ	800	Ms (Sarı için)	INOX	800	
	HSS 800 : Yumuşak imalat çeliği ve tornalık malzeme için	KALİTESİ	HSS	HSS	HSSE	HSS
	Ms : Kısa talaş veren pirinç için	AĞIZ ŞEKLİ	1.75 P	1.25 P	2.25 P	1.75 P
	INOX: Paslanmaz ve aside dayanıklı çelik için	TOLERANSI	6 g	6 g	6 g	6 g

ÖLÇÜ					Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
MF ø d1	P	ø d2xh1	W		Euro	Euro	Euro	Euro
M36 x 2	2	65 x 18	7	35.82	62.56	93.84	125.12	87.62
M36 x 3	3	65 x 25	7	35.76	62.56	93.84	125.12	87.62
M38 x 1.5	1.5	75 x 20	7	37.85	81.04	121.56	162.04	113.48
M39 x 1.5	1.5	75 x 20	7	38.85	81.04	121.56	162.04	113.48
M39 x 2	2	75 x 20	7	38.82	85.00	127.52	170.04	118.44
M39 x 3	3	75 x 30	7	38.76	85.00	127.52	170.04	118.44
M40 x 1.5	1.5	75 x 20	7	39.85	81.04	121.56	162.04	113.48
M40 x 2	2	75 x 20	7	39.82	85.00	127.52	170.04	118.44
M40 x 3	3	75 x 30	7	39.76	85.00	127.52	170.04	118.44
M42 x 1.5	1.5	75 x 20	8	41.85	81.04	121.56	162.04	113.48
M42 x 2	2	75 x 20	8	41.82	85.00	127.52	170.04	119.09
M42 x 3	3	75 x 30	7	41.76	85.00	127.52	170.04	118.44
M45 x 1.5	1.5	90 x 22	7	44.85	126.40	189.60	252.80	177.01
M45 x 2	2	90 x 22	7	44.82	132.48	198.64	264.88	185.55
M45 x 3	3	90 x 36	7	44.76	132.48	198.64	264.88	185.55
M48 x 1.5	1.5	90 x 22	7	47.85	126.40	189.60	252.80	177.01
M48 x 2	2	90 x 22	7	47.82	132.48	198.64	264.88	185.55
M48 x 3	3	90 x 36	7	47.76	132.48	198.64	264.88	185.55
M48 x 4	4	90 x 36	7	47.73	132.48	198.64	264.88	185.55
M50 x 1.5	1.5	90 x 22	8	49.85	126.40	189.60	252.80	177.01
M50 x 2	2	90 x 22	8	49.82	132.48	198.64	264.88	185.55
M50 x 3	3	90 x 36	8	49.76	132.48	198.64	264.88	185.55
M52 x 1.5	1.5	90 x 36	8	51.85	126.40	189.60	252.80	177.01
M52 x 2	2	90 x 22	8	51.82	132.48	198.64	264.88	185.55
M52 x 3	3	90 x 36	8	51.76	132.48	198.64	264.88	185.55
M52 x 4	4	90 x 36	8	51.73	132.48	198.64	264.88	185.55
M55 x 1.5	1.5	105 x 22	8	54.85				
M55 x 2	2	105 x 22	7	54.82				
M55 x 3	3	105 x 36	7	54.76				
M55 x 4	4	105 x 36	7	54.73				
M56 x 1.5	1.5	105 x 22	8	55.85				
M56 x 2	2	105 x 22	8	55.82				
M56 x 3	3	105 x 36	8	55.76				
M56 x 4	4	105 x 36	7	55.73				



(SOL)

**Uygun Kullanım Yeri**
**HSS 800** : Yüksek hız çeliği

**Ms** : Kısa talaş veren pirinç için

**KULLANIM YERİ**

800

Ms (Sarı için)

 Ms (Sarı İçin)  
- 0.1 Tolerans  
Kaplama Öncesi

800

**KALİTESİ**

HSS

HSS

HSS

HSS

**AĞIZ ŞEKLİ**

1.75 P

1.25 P

1.25 P

1.75 P

**TOLERANSI**

A

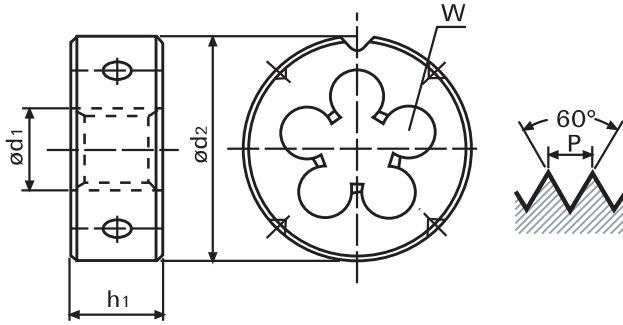
A

A

A

**ÖLÇÜ**

G	ø d <sub>1</sub>	1"/p	P	ø d <sub>2</sub> xh <sub>1</sub>	W		Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
							Euro	Euro	Euro	Euro
G 1/8"	9.73	28	0.907	30 x 11	4	9.62	12.82	19,23		27.64
G 1/4"	13.16	19	1.337	38 x 10	4	13.03	15.07	22,63		30.54
G 3/8"	16.66	19	1.337	45 x 14	5	16.54	27.07	40,54	44.46	37.42
G 1/2"	20.96	14	1.814	45 x 14	6	20.81	27.07	40,54	45.86	44.61
G 5/8"	22.91	14	1.814	55 x 16	5	22.77	51.29	76,87		90.57
G 3/4"	26.44	14	1.814	55 x 16	6	26.30	51.29	76,87	96.30	90.57
G 7/8"	30.20	11	1.814	65 x 18	6	30.06	82.87	124,31		116.95
G 1"	33.25	11	2.309	65 x 18	7	33.07	82.87	124,31	118.28	116.95
G 1.1/8"	37.90	11	2.309	75 x 20	7	37.72	123.61	185,28		157.59
G 1.1/4"	41.91	11	2.309	75 x 20	8	41.73	117.72	176,58	157.78	157.59
G 1.3/8"	44.32	11	2.309	90 x 22	7	44.14	117.72	176,58		212.67
G 1.1/2"	47.80	11	2.309	90 x 22	7	47.62	183.44	275,16	208.26	212.67
G 1.3/4"	53.75	11	2.309	105 x 22	8	53.57	304.52	434,39		263.97
G 2"	59.61	11	2.309	105 x 22	8	59.43	318.12	454,65		263.97
G 2.1/4"	65.71	11	2.309	120 x 22	8	65.49	368.69	516,14		405.64
G 2.1/2"							387.16	541,96		
G 3"										

**UNC VİDA PAFTALARI**

**Uygun Kullanım Yeri**

**HSS 800** : Yumuşak imalat çeliği ve tornalık malzeme için

**KULLANIM YERİ**

800

**KALİTESİ**

HSS

**AĞIZ ŞEKLİ**

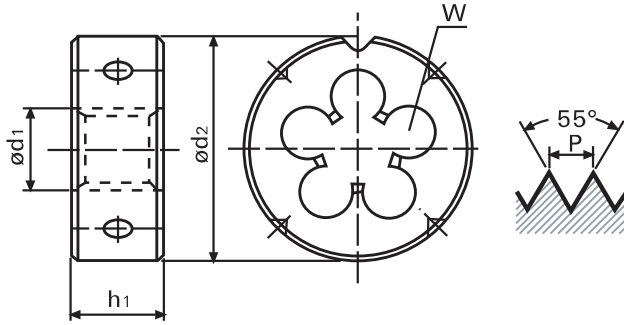
1.75 P

**TOLERANSI**

2A

**ÖLÇÜ**

UNC	ø d <sub>1</sub>	1"/p	P	ø d <sub>2</sub> xh <sub>1</sub>	W	ø d <sub>2</sub>	Birim Fiyatı Euro
No 5 - 40	3.175	40	0.635	20 x 5	3	3.09	<b>7.94</b>
No 6 - 32	3.505	32	0.794	20 x 5	3	3.41	<b>7.94</b>
No 8 - 32	4.166	32	0.794	20 x 7	3	4.07	<b>7.94</b>
No 10 - 24	4.826	24	1.058	20 x 7	3	4.71	<b>7.94</b>
No 12 - 24	5.486	24	1.058	20 x 7	4	5.37	<b>7.94</b>
1/4 - 20	6.350	20	1.270	20 x 7	4	6.22	<b>8.36</b>
5/16 - 18	7.938	18	1.411	25 x 9	4	7.80	<b>9.04</b>
3/8 - 16	9.525	16	1.588	30 x 11	4	9.37	<b>11.67</b>
7/16 - 14	11.112	14	1.814	30 x 11	4	10.95	<b>12.54</b>
1/2 - 13	12.700	13	1.954	38 x 14	4	12.52	<b>15.58</b>
9/16 - 12	14.288	12	2.117	38 x 14	4	14.10	<b>15.58</b>
5/8 - 11	15.875	11	2.309	45 x 18	5	15.68	<b>26.98</b>
3/4 - 10	19.050	10	2.504	45 x 18	5	18.84	<b>26.98</b>
7/8 - 9	22.225	9	2.822	55 x 22	5	22.00	<b>50.08</b>
1 - 8	25.400	8	3.175	55 x 22	5	25.16	<b>50.08</b>
1.1/8 - 7	28.575	7	3.629	65 x 25	5	28.31	<b>81.13</b>
1.1/4 - 7	31.750	7	3.629	65 x 25	6	31.49	<b>81.13</b>
1.3/8 - 6	34.925	6	4.233	65 x 25	7	34.63	<b>81.13</b>
1.1/2 - 6	38.100	6	4.233	75 x 30	6	37.80	<b>110.05</b>
1.3/4 - 5	44.450	5	5.080	90 x 36	6	44.12	
2 - 4.1/2	50.800	4.1/2	5.645	90 x 36	7	50.45	



(SOL)

## Uygun Kullanım Yeri

HSS 800 : Yumuşak imalat çeliği ve tornalık malzeme için

## KULLANIM YERİ

800

800

## KALİTESİ

HSS

HSS

## AĞIZ ŞEKLİ

1.75 P

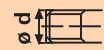
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## TOLERANSI

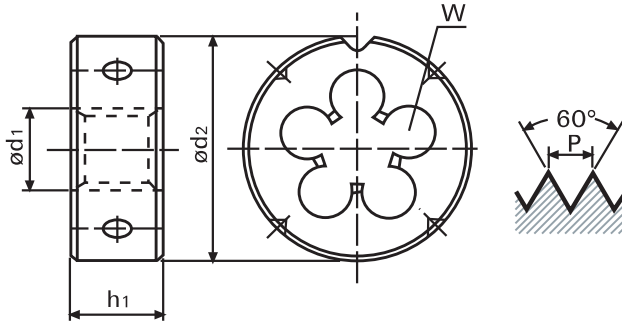
Orta Sınıf

Orta Sınıf

## ÖLÇÜ

BSW	ø d1	1"/p	P	ø d2xh1	W		Birim Fiyatı	Birim Fiyatı
							Euro	Euro
1/8"	3.18	40	0.635	20 x 5	3	3.09	5.62	
5/32"	3.97	32	0.794	20 x 7	3	3.88	5.62	
3/16"	4.76	24	1.058	20 x 7	4	4.66	5.62	
7/32"	5.56	24	1.058	20 x 7	4	5.46	5.93	
1/4"	6.35	20	1.270	20 x 7	4	6.24	6.42	
5/16"	7.94	18	1.411	25 x 9	4	7.82	6.42	
3/8"	9.53	16	1.588	30 x 11	4	9.40	8.13	
7/16"	11.11	14	1.814	30 x 11	4	10.98	8.70	
1/2"	12.70	12	2.117	38 x 14	4	12.56	12.27	
9/16"	14.29	12	2.117	38 x 14	4	14.14	12.43	
5/8"	15.88	11	2.309	45 x 18	5	15.72	17.97	
11/16"	17.46	11	2.309	45 x 18	5	17.31	17.97	
3/4"	19.05	10	2.504	45 x 18	5	18.89	19.38	
7/8"	22.23	9	2.822	55 x 22	5	22.10	35.61	
1"	25.40	8	3.175	55 x 22	5	25.27	35.61	
1.1/8"	28.58	7	3.629	65 x 25	5	28.44	54.72	
1.1/4"	31.75	7	3.629	65 x 25	6	31.61	54.72	
1.3/8"	34.93	6	4.233	65 x 25	6	34.77	54.72	
1.1/2"	38.10	6	4.233	75 x 30	6	37.95	74.75	
1.5/8"	41.28	5	5.080	75 x 30	6	41.11	74.75	
1.3/4"	44.45	5	5.080	90 x 36	6	44.28	117.12	
1.7/8"	47.63	4.1/2	5.645	90 x 36	7	47.45	117.12	
2"	50.80	4.1/3	5.645	90 x 36	7	50.63	117.12	
2.1/4"	51.15	4	6.350	105 x 36	8	56.90		
2.1/2"	63.50	4	6.350	120 x 36	8	63.24		
2.3/4"	69.85	3.1/2	7.257	120 x 36	8	69.58		



**UNF VİDA PAFTALARI**

**Uygun Kullanım Yeri**

**HSS 800** : Yumuşak imalat çeliği ve tornalık malzeme için

**KULLANIM YERİ**

800

**KALİTESİ**

HSS

**AĞIZ ŞEKLİ**


1.75 P

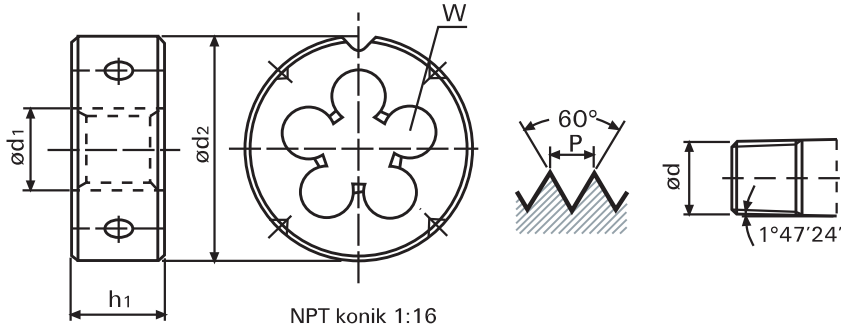
**TOLERANSI**

2A

**ÖLÇÜ**

Birim Fiyatı

UNF	ø d <sub>1</sub>	1"/p	P	ø d <sub>2</sub> xh <sub>1</sub>	W		Euro
No 5 - 44	3.175	44	0.577	20 x 5	3	3.10	<b>7.94</b>
No 6 - 40	3.505	40	0.635	20 x 5	3	3.42	<b>7.94</b>
No 8 - 36	4.166	36	0.705	20 x 7	3	4.08	<b>7.94</b>
No 10 - 32	4.826	32	0.794	20 x 7	3	4.73	<b>7.94</b>
No 12 - 28	5.486	28	0.907	20 x 7	4	5.38	<b>7.94</b>
1/4 - 28	6.350	28	0.907	20 x 7	4	6.24	<b>7.98</b>
5/16 - 24	7.938	24	1.058	25 x 9	5	7.82	<b>9.04</b>
3/8 - 24	9.525	24	1.058	30 x 11	4	9.41	<b>11.67</b>
7/16 - 20	11.112	20	1.270	30 x 11	5	10.98	<b>12.54</b>
1/2 - 20	12.700	20	1.270	38 x 10	5	12.56	<b>15.58</b>
9/16 - 18	14.288	18	1.411	38 x 10	5	14.14	<b>15.58</b>
5/8 - 18	15.875	18	1.411	45 x 14	5	15.73	<b>26.98</b>
3/4 - 16	19.050	16	1.588	45 x 14	6	18.89	<b>26.98</b>
7/8 - 14	22.225	14	1.814	55 x 16	5	22.05	<b>50.08</b>
1 - 12	25.400	12	2.117	55 x 16	6	25.21	<b>50.08</b>
1.1/8 - 12	28.575	12	2.117	65 x 18	6	28.38	<b>81.13</b>
1.1/4 - 12	31.750	12	2.117	65 x 18	6	31.55	<b>81.13</b>
1.3/8 - 12	34.925	12	2.117	65 x 18	7	34.73	<b>81.13</b>
1.1/2 - 12	38.100	12	2.117	75 x 20	8	37.90	<b>110.05</b>

**NPT VİDA KONİK PAFTALARI**

**(SOL)**

<b>Uygun Kullanım Yeri</b>							<b>KULLANIM YERİ</b>	800	800
<b>HSS 800</b> : Yumuşak imalat çeliği ve tornalık malzeme için							<b>KALİTESİ</b>	HSS	HSS
							<b>AĞIZ ŞEKLİ</b>	2P	2P
							<b>TOLERANSI</b>		
							<b>ÖLÇÜ</b>		
BSW	ø d1	1"/p	P	ø d2xh1	W		Euro	Euro	
1/8"	9.728	27	0.941	30 x 11	5	9.99	<b>15.54</b>		
1/4"	13.157	18	1.411	38 x 14	5	13.26	<b>20.75</b>		
3/8"	16.662	18	1.411	45 x 18	5	16.67	<b>35.99</b>		
1/2"	20.955	14	1.814	45 x 18	6	20.71	<b>35.99</b>		
3/4"	26.441	14	1.814	55 x 22	6	26.03	<b>66.77</b>		
1"	33.249	11 1/2	2.209	65 x 25	7	32.59	<b>108.15</b>		



ERMAK TEKNİK MALZEME

**WEGLER**

**ELMAS PARMAK FREZELER  
ve MATKAP UÇLARI**



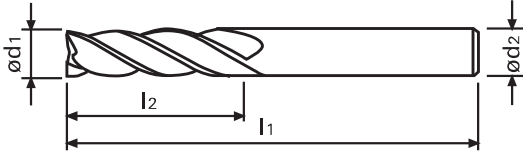


ERMAK TEKNİK MALZEME

WEGLER

DIN 6528

KISA BOY ELMAS PARMAK FREZE



TIALN

TIALN

TIALN

İki Ağzılı

İki Ağzılı

Üç Ağzılı

Üç Ağzılı

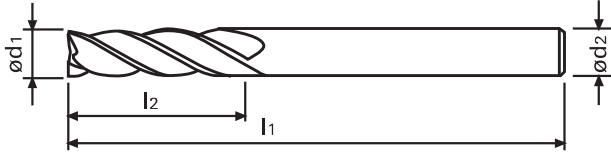
Dört Ağzılı

Dört Ağzılı

ÖLÇÜ

d1 mm	l2 mm	l1 mm	d2 mm	Birim Fiyatı						
				Euro	Euro	Euro	Euro	Euro	Euro	
2	6	40	2							
2.5	8	40	3							
3	12	50	3	9.98	11.51	9.98	11.51	9.98	11.51	
4	14	50	4	13.67	16.31	13.67	16.31	13.67	16.31	
5	16	50	5	14.59	17.15	14.59	17.15	14.59	17.15	
6	19	50	6	16.12	18.50	16.12	18.50	16.12	18.50	
7	19	63	7	23.43	23.76	23.43	23.76	23.43	23.76	
8	19	63	8	24.53	28.90	24.53	28.90	24.53	28.90	
9	22	70	9	38.50	39.80	38.50	39.80	38.50	39.80	
10	22	70	10	42.38	47.55	42.38	47.55	42.38	47.55	
11	25	70	11	51.42	57.92	51.42	57.92	51.42	57.92	
12	25	75	12	57.01	63.19	57.01	63.19	57.01	63.19	
13	30	83	13	70.94	77.22	70.94	77.22	70.94	77.22	
14	30	88	14	74.45	81.72	74.45	81.72	74.45	81.72	
15	32	92	15	90.49	95.04	90.49	95.04	90.49	95.04	
16	32	92	16	93.05	103.10	93.05	103.10	93.05	103.10	
17	32	92	17	123.26	130.68	123.26	130.68	123.26	130.68	
18	36	100	18	126.98	138.66	126.98	138.66	126.98	138.66	
19	38	104	19	145.61	154.44	145.61	154.44	145.61	154.44	
20	38	104	20	151.95	163.35	151.95	163.35	151.95	163.35	
22	38	104	20							
24	38	104	25							
25	38	104	25							
26	38	104	25							
28	38	104	25							
30	38	104	25							

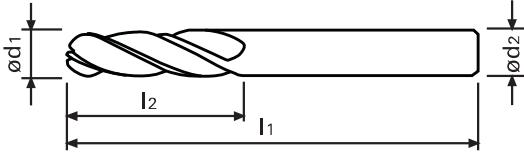
### UZUN BOY ELMAS PARMAK FREZE



İki Ağzılı İki Ağzılı Üç Ağzılı Üç Ağzılı Dört Ağzılı Dört Ağzılı

ÖLÇÜ				Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı	Birim Fiyatı
d1 mm	l2 mm	l1 mm	d2 mm	Euro	Euro	Euro	Euro	Euro	Euro
3	25	65	3	11.30	12.73	11.30	12.73	11.30	12.73
4	25	65	4	15.65	17.86	15.65	17.86	15.65	17.86
5	25	75	5	17.18	19.78	17.18	19.78	17.18	19.78
6	25	75	6	21.08	24.15	21.08	24.15	21.08	24.15
8	25	75	8	26.64	30.76	26.64	30.76	26.64	30.76
10	38	100	10	44.65	49.78	44.65	49.78	44.65	49.78
12	50	100	12	65.12	70.65	65.12	70.65	65.12	70.65
12	75	150	12	96.68	101.45	96.68	101.45	96.68	101.45
14	45	100	14	104.25	111.53	104.25	111.53	104.25	111.53
14	75	150	14	109.18	118.33	109.18	118.33	109.18	118.33
16	75	150	16	148.21	157.41	148.21	157.41	148.21	157.41
18	75	150	18	170.32	173.75	170.32	173.75	170.32	173.75
20	75	150	20	201.16	212.36	201.16	212.36	201.16	212.36
22	75	150	22						
25	75	150	25						

### KISA BOY (KÜRE) ELMAS PARMAK FREZE



TiAlN

TiAlN

İki Ağzılı

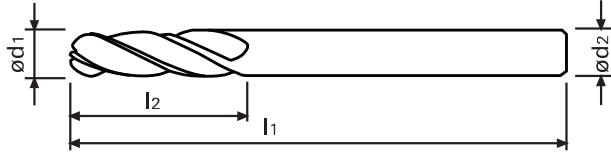
İki Ağzılı

Dört Ağzılı

Dört Ağzılı

ÖLÇÜ				Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
d <sub>1</sub> mm	l <sub>2</sub> mm	l <sub>1</sub> mm	d <sub>2</sub> mm				
3	12	50	3	13.28	14.46	13.28	14.46
4	14	50	4	16.93	19.25	16.93	19.25
5	16	50	5	18.02	20.63	18.02	20.63
6	19	50	6	19.70	23.09	19.70	23.09
8	19	63	8	31.40	35.40	31.40	35.40
10	22	70	10	45.05	50.38	45.05	50.38
12	25	75	12	63.63	70.00	63.63	70.00
14	30	88	14	80.20	93.52	80.20	93.52
16	32	92	16	102.00	110.10	102.00	110.10
18	36	100	18	142.00	150.88	142.00	150.88
20	38	104	20	174.00	180.85	174.00	180.85

### UZUN BOY (KÜRE) ELMAS PARMAK FREZE



TİALN

TİALN

İki Ağızlı

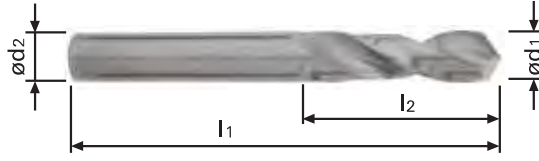
İki Ağızlı

Dört Ağızlı

Dört Ağızlı

#### ÖLÇÜ

d1 mm	l2 mm	l1 mm	d2 mm	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
3	25	65	3	17.12	19.78	17.12	19.78
4	25	65	4	17.12	19.78	17.12	19.78
5	25	65	5	19.56	22.80	19.56	22.80
6	25	75	6	22.90	27.92	22.90	27.92
8	25	75	8	31.76	40.01	31.76	40.01
10	38	100	10	50.04	55.36	50.04	55.36
12	50	100	12	70.48	76.73	70.48	76.73
12	75	150	12	98.66	107.16	98.66	107.16
14	75	150	14	128.10	135.64	128.10	135.64
16	75	150	16	158.02	165.98	158.02	165.98
18	75	150	18	182.87	196.05	182.87	196.05
20	75	150	20	225.57	240.57	225.57	240.57



ÖLÇÜ				Birim Fiyatı Euro
d1 mm	l2 mm	l1 mm	d2 mm	
0.5	3	20	0.5	2.81
1	6	26	1	2.81
1.5	9	32	1.5	3.40
2	12	38	2	4.25
2.1	12	38	2.1	4.25
2.2	13	40	2.2	4.25
2.3	13	40	2.3	4.25
2.4	13	40	2.4	4.25
2.5	13	43	2.5	4.25
2.6	14	43	2.6	4.25
2.7	14	46	2.7	4.25
2.8	16	46	2.8	4.25
2.9	16	46	2.9	4.25
3	16	46	3	6.26
3.1	18	49	3.1	6.26
3.2	18	49	3.2	6.26
3.3	18	49	3.3	6.26
3.4	20	52	3.4	6.26
3.5	20	52	3.5	6.26
3.6	20	52	3.6	6.26
3.7	20	52	3.7	6.26
3.8	22	55	3.8	6.26
3.9	22	55	3.9	6.26
4	22	55	4	6.26
4.1	22	55	4.1	6.26
4.2	22	55	4.2	6.26
4.3	24	58	4.3	6.26
4.4	24	58	4.4	6.26
4.5	24	58	4.5	10.11
4.6	24	58	4.6	10.11
4.7	24	58	4.7	10.11
4.8	24	58	4.8	10.11
4.9	24	58	4.9	10.11
5	26	62	5	11.31
5.1	26	62	5.1	15.34
5.2	26	62	5.2	15.34
5.3	26	62	5.3	15.34
5.4	26	62	5.4	15.34
5.5	28	66	5.5	15.34
5.6	28	66	5.6	15.34
5.7	28	66	5.7	15.34
5.8	28	66	5.8	15.34
5.9	28	66	5.9	15.34
6	28	66	6	20.57
6.1	31	70	6.1	20.57
6.2	31	70	6.2	20.57
6.3	31	70	6.3	20.57
6.4	31	70	6.4	20.57
6.5	31	70	6.5	20.76
6.6	31	70	6.6	20.76

ÖLÇÜ				Birim Fiyatı Euro
d1 mm	l2 mm	l1 mm	d2 mm	
6.7	31	70	6.7	20.76
6.8	31	70	6.8	20.76
6.9	34	74	6.9	20.76
7	34	74	7	23.60
7.1	34	74	7.1	23.60
7.2	34	74	7.2	23.60
7.3	34	74	7.3	23.60
7.4	34	74	7.4	23.60
7.5	34	74	7.5	27.99
7.6	37	79	7.6	27.99
7.7	37	79	7.7	27.99
7.8	37	79	7.8	33.08
7.9	37	79	7.9	33.75
8	37	79	8	36.13
8.1	37	79	8.1	36.13
8.2	37	79	8.2	36.13
8.3	37	79	8.3	36.13
8.4	37	79	8.4	36.13
8.5	37	79	8.5	36.13
8.6	37	79	8.6	36.13
8.7	37	79	8.7	36.13
8.8	37	79	8.8	36.13
8.9	37	79	8.9	36.13
9	40	84	9	36.13
9.1	40	84	9.1	46.01
9.2	40	84	9.2	46.01
9.3	40	84	9.3	46.01
9.4	40	84	9.4	46.01
9.5	40	84	9.5	46.01
9.6	40	84	9.6	51.14
9.7	43	89	9.7	51.14
9.8	43	89	9.8	51.14
9.9	43	89	9.9	51.14
10	43	89	10	51.14
10.2	43	89	10.2	61.35
10.5	43	89	10.5	61.35
11	47	95	11	66.45
11.5	47	95	11.5	66.45
12	51	102	12	86.02
12.5	51	102	12.5	86.02
13	51	102	13	99.71
13.5	51	102	13.5	99.71
14	54	107	14	117.52
14.5	54	107	14.5	117.63
15	56	111	15	171.45
15.5	56	111	15.5	194.40
16	58	115	16	194.40
17	62	123	17	217.35
18	62	123	18	218.70
20	66	131	20	247.20



### UZUN BOY ELMAS MATKAP UCU



ÖLÇÜ				Birim Fiyatı
d1 mm	l2 mm	l1 mm	d2 mm	Euro
1	12	34	1	3.21
1.5	18	40	1.5	3.47
2	24	49	2	4.67
2.5	30	57	2.5	4.67
3	33	61	3	6.89
3.5	39	70	3.5	6.89
4	43	75	4	11.18
4.5	47	80	4.5	11.88
5	52	86	5	18.26
5.5	57	93	5.5	18.26
6	57	93	6	22.56
6.5	63	101	6.5	22.56
7	69	109	7	26.62
7.5	69	109	7.5	32.72
8	75	117	8	42.73
8.5	75	117	8.5	42.73
9	81	125	9	50.23
9.5	81	125	9.5	57.81
10	87	133	10	65.31
10.5	87	133	10.5	75.38
11	94	142	11	85.48
11.5	94	142	11.5	99.83
12	101	151	12	110.61
12.5	101	151	12.5	128.44
13	101	151	13	128.44
13.5	101	151	13.5	128.44
14	120	175	14	164.70
14.5	120	175	14.5	217.61
15	120	175	15	226.35
16	120	175	16	256.95
17	120	175	17	302.54
18	120	175	18	329.75
19	120	175	19	380.44
20	120	175	20	442.80





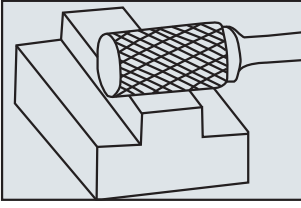
ERMAK TEKNİK MALZEME



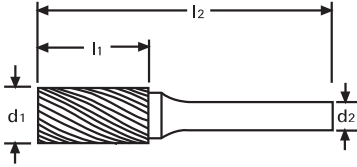
## KALIPÇI FREZELER



SERT METAL (KARBÜR) KALIPÇI FREZELER



A



Standart Form



Duble Cut X

Single Cut M (P)

Tin Duble X

Chip Breaker Y

Speedway V

Wide (Shiny) W

Çapraz

Düz

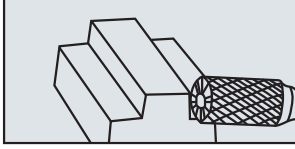
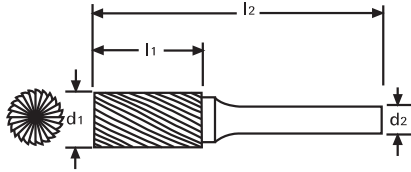
Çapraz

Talaş Kırıcı

Yüksek Performans

Alüminyum

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>									
1.5	3	6	38						
2	3	10	38						
2.5	3	11	38						
3	3	14	38	2.83	2.83		2.83		
4	3	13	53	4.00	4.00		4.00	2.97	3.25
5	3	13	53	4.48	4.48		4.48	4.20	
6	3	13	53	4.93	4.93		4.93	4.70	5.66
<b>Arka Sap 6 mm.</b>									
3	6	12	56	11.06	11.06	11.93	11.06	11.62	
4	6	16	56	11.06	11.06	11.93	11.06	11.62	
5	6	16	56	11.06	11.06	11.93	11.06	11.62	
6	6	16	56	11.06	11.06	11.93	11.06	11.62	12.71
8	6	19	64	9.86	9.86	11.00	9.86	10.36	11.34
10	6	20	65	12.96	12.96	14.42	12.96	13.61	14.92
11	6	25	70	19.04	19.04	20.64	19.04	19.99	
12	6	25	70	19.66	19.66	21.39	19.66	20.64	22.60
12.7	6	25	70	20.58	20.58	22.43	20.58	21.62	
16	6	25	70	31.58	31.58	33.91	31.58	33.15	36.32
19	6	25	70	45.11	45.11	47.85	45.11	47.38	51.88
25	6	25	70	79.27	79.27	82.88	79.27	83.24	

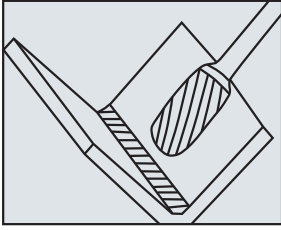
**SERT METAL (KARBÜR) KALIPÇI FREZELER**
**TEPE KESİCİLİ**

**B**

**Standart Form**

**Duble Cut X**
**Single Cut M (P)**
**Tin Duble X**
**Chip Breaker Y**
**Speedway V**
**Wide (Shiny) W**
**Çapraz**
**Düz**
**Çapraz**
**Talaş Kırıcı**
**Yüksek Performans**
**Alüminyum**

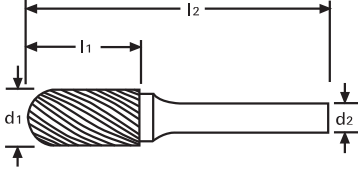
Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>									
1.5	3	6	38		2.83				
2	3	10	38		2.83				
2.5	3	11	38		2.83				
3	3	14	38	2.83	2.83		2.83	2.97	3.25
6	3	13	53	4.93	4.93		4.93	5.18	5.66
<b>Arka Sap 6 mm.</b>									
3	6	12	56	11.06	21.62	11.93	11.06	11.62	
4	6	13	56	11.06	11.06	11.93	11.06	11.62	
5	6	13	56	11.06	11.06	11.93	11.06	11.62	
6	6	19	56	11.06	11.06	11.93	11.06	11.62	12.71
8	6	19	64	9.86	9.86	11.00	9.86	10.36	11.34
10	6	20	65	12.96	12.96	14.42	12.96	13.61	14.92
11	6	25	70	19.04	19.04	20.64	19.04	19.99	
12	6	25	70	19.66	19.66	21.39	19.66	20.64	22.60
12.7	6	25	70	20.58	20.58	22.43	20.58	21.62	
16	6	25	70	20.58	20.58	33.91	20.58	33.15	36.32
19	6	25	70	45.11	45.11	47.85	45.11	47.38	51.88
25	6	25	70	20.58	20.58	82.88	20.58	83.24	



SERT METAL (KARBÜR) KALIPÇI FREZELER



C



Standart Form



Duble Cut X

Single Cut M (P)

Tin Duble X

Chip Breaker Y

Speedway V

Wide (Shiny) W

Çapraz

Düz

Çapraz

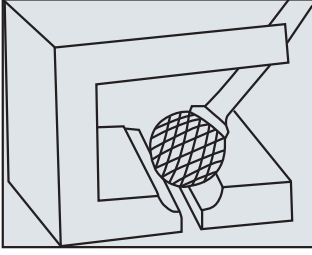
Talaş Kırıcı

Yüksek Performans

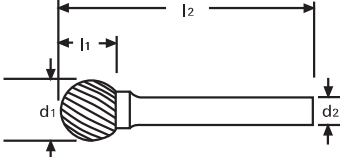
Alüminyum

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>									
2	3	10	38		2.83				
2.5	3	11	38		2.83				
3	3	14	38	2.83	2.83		2.83	2.97	3.25
5	3	12	52	4.48	4.48		4.48	4.70	
6	3	13	53	4.93	4.93		4.93	5.18	5.66
<b>Arka Sap 6 mm.</b>									
3	6	12	50	11.06	11.06	11.93	11.06	11.62	
4	6	16	56	11.06	11.06	11.93	11.06	11.62	
5	6	16	56	11.06	11.06	11.93	11.06	11.62	
6	6	16	56	11.06	11.06	11.93	11.06	11.62	
6	6	19	56	11.06	11.06	11.93	11.06	11.62	12.71
8	6	19	64	9.86	9.86	11.00	9.86	10.36	11.34
10	6	20	65	12.96	12.96	14.42	12.96	13.61	14.92
11	6	25	70	19.04	19.04	20.64	19.04	19.99	
12	6	25	70	19.66	19.66	21.39	19.66	20.64	22.60
12.7	6	25	70	20.58	20.58	22.43	20.58	21.62	
16	6	25	70	31.58	31.58	33.91	31.58	33.15	36.32
19	6	25	70	45.11	45.11	47.85	45.11	47.38	51.88
25	6	25	70	79.27	79.27	82.88	79.27	83.24	

# SERT METAL (KARBÜR) KALIPÇI FREZELER



D



Standart Form



**Double Cut  
X**

**Single Cut  
M (P)**

**Tin Double  
X**

**Chip Breaker  
Y**

**Speedway  
V**

**Wide (Shiny)  
W**

Çapraz

Düz

Çapraz

Talaş Kırıcı

Yüksek Performans

Alüminyum

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
------------------------	----------	----------	----------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

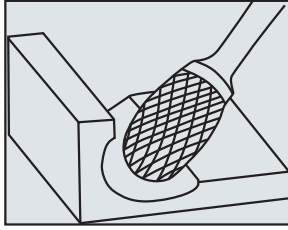
**Arka Sap 3 mm.**

2	3	1.8	38		2.83				
2.5	3	2.3	38		2.83				
3	3	2.7	38	2.83	2.83		2.83	2.97	3.25
4	3	3.6	43	4.00	4.00		4.00	4.20	
5	3	4.5	44	4.48	4.48		4.48	4.70	

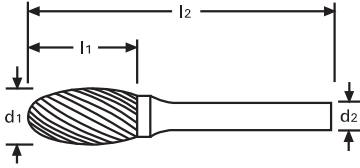
**Arka Sap 6 mm.**

3	6	2.8	56	11.06	11.06	11.93	11.06	11.62	
5	6	4.5	56	11.06	11.06	11.93	11.06	11.62	
6	6	5.4	56	11.06	11.06	11.93	11.06	11.62	12.71
8	6	7.2	52	8.12	8.12	9.28	8.12	8.54	9.35
10	6	9	54	9.86	9.86	11.30	9.86	10.36	11.34
12	6	10.8	56	14.70	14.70	16.44	14.70	15.43	16.91
12.7	6	11.7	56	14.70	14.70	16.54	14.70	15.43	
16	6	14.4	59	21.06	21.06	23.37	21.06	22.12	24.22
19	6	17.1	61	30.88	30.88	33.64	30.88	32.42	35.50
25	6	22.5	68	63.17	63.17	66.79	63.17	66.33	

SERT METAL (KARBÜR) KALIPÇI FREZELER



E



Standart Form



Duble Cut X

Single Cut M (P)

Tin Duble X

Chip Breaker Y

Speedway V

Wide (Shiny) W

Çapraz

Düz

Çapraz

Talaş Kırıcı

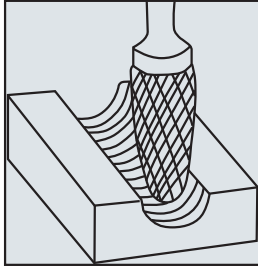
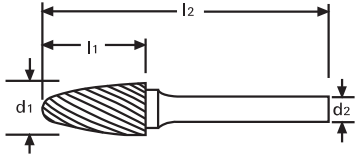
Yüksek Performans

Alüminyum

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Radüs r	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>										
3	3	6	38	1.2	2.83	2.83		2.83	2.97	
5	3	7	46	2.4	4.48	4.48		4.48	4.70	
6	3	9	50	2.4	4.93	4.93		4.93	5.18	
<b>Arka Sap 6 mm.</b>										
6	6	10	56	2.4	11.06	11.06	11.93	11.06	11.62	12.71
8	6	13	58	3.7	8.12	8.12	9.28	8.12	8.54	9.35
10	6	16	61	4.0	10.58	10.58	12.03	10.58	11.12	12.18
12	6	20	65	4.0	15.51	15.51	17.25	15.51	16.30	17.84
12.7	6	22	67	5.0	16.80	16.80	18.64	16.80	17.64	
16	6	25	70	6.3	27.08	27.08	29.39	27.08	28.42	31.14
19	6	25	70	8.0	37.60	37.60	40.36	37.60	39.48	43.26





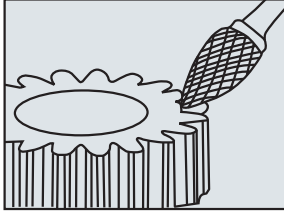
**SERT METAL (KARBÜR) KALIPÇI FREZELER**

**F**

**Standart Form**

**Duble Cut X**
**Single Cut M (P)**
**Tin Duble X**
**Chip Breaker Y**
**Speedway V**
**Wide (Shiny) W**
**Çapraz**
**Düz**
**Çapraz**
**Talaş Kırıcı**
**Yüksek Performans**
**Alüminyum**

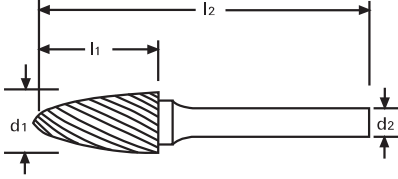
Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Radüs r	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>										
3	3	13	38	0.9	2.83	2.83		2.83	2.97	
3	3	13	38	0.6	2.83	2.83		2.83	2.97	3.25
5	3	13	53	1.2	4.48	4.48		4.48	4.70	
6	3	13	53	1.6	4.93	4.93		4.93	5.18	5.66
<b>Arka Sap 6 mm.</b>										
6	6	18	56	1.6	11.06	11.06	11.93	11.06	11.62	12.71
8	6	18	63	1.8	8.68	8.68	9.84	8.68	9.63	10.00
10	6	20	65	2.4	11.00	11.00	12.45	11.00	11.56	12.66
11	6	25	70	2.4	15.04	15.04	16.63	15.04	15.79	
12	6	25	70	3.0	15.93	15.93	17.67	15.93	16.72	18.31
12.7	6	25	70	3.2	16.80	16.80	18.64	16.80	17.64	
16	6	25	70	3.5	25.56	25.56	27.88	25.56	26.85	29.40
19	6	25	70	4.7	35.70	35.70	38.45	35.70	37.49	41.05



SERT METAL (KARBÜR) KALIPÇI FREZELER



G



Standart Form



Duble Cut X

Single Cut M (P)

Tin Duble X

Chip Breaker Y

Speedway V

Wide (Shiny) W

Çapraz

Düz

Çapraz

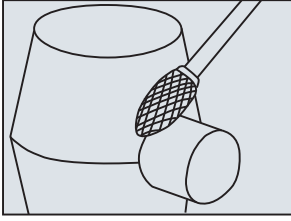
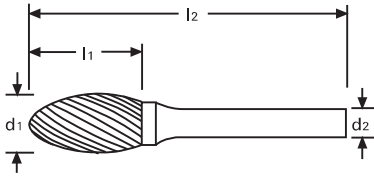
Talaş Kırıcı

Yüksek Performans

Alüminyum

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>									
3	3	6	38	2.83	2.83		2.83	2.97	
3	3	11	38	2.83	2.83		2.83	2.97	
3	3	13	38	2.83	2.83		2.83	2.97	
5	3	13	53	4.48	4.48		4.48	4.70	
6	3	13	53	4.93	4.93		4.93	5.18	
<b>Arka Sap 6 mm.</b>									
6	6	18	56	11.06	11.06	11.93	11.06	11.62	
8	6	19	64	8.68	8.68	9.84	8.68	9.13	
10	6	20	65	10.58	10.58	12.03	10.58	11.12	
12	6	25	70	15.51	15.51	17.25	15.51	16.30	
12.7	6	25	70	15.74	15.74	17.58	15.74	16.52	
16	6	25	70	24.05	24.05	26.37	24.05	25.26	
19	6	25	70	33.82	33.82	36.58	33.82	35.50	



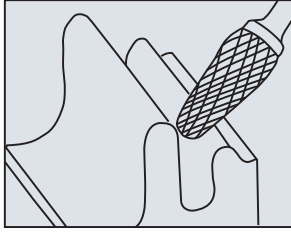
**SERT METAL (KARBÜR) KALIPÇI FREZELER**

**H**

**Standart Form**

**Duble Cut X**
**Single Cut M (P)**
**Tin Duble X**
**Chip Breaker Y**
**Speedway V**
**Wide (Shiny) W**
**Çapraz**
**Düz**
**Çapraz**
**Talas Kırıcı**
**Yüksek Performans**
**Alüminyum**

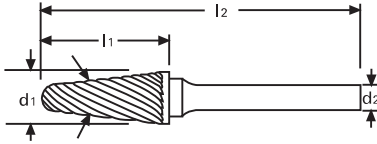
Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Radüs r	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>										
3	3	7	38	0.8	2.83	2.83		2.83	2.97	
5	3	9.5	50	0.8	4.48	4.48		4.48	4.70	
<b>Arka Sap 6 mm.</b>										
6	6	18	56	1.0	11.06	11.06	11.93	11.06	11.62	
8	6	19	64	1.6	9.27	9.27	10.43	9.27	9.74	
10	6	25	70	2.0	12.68	12.68	14.13	12.68	13.33	
12	6	32	77	2.4	21.00	21.00	22.74	21.00	22.06	
13	6	32	77	2.4						
16	6	36	81	3.0	33.10	33.10	35.41	33.10	34.75	
19	6	41	86	4.0	53.76	53.76	56.51	53.76	56.45	



SERT METAL (KARBÜR) KALIPÇI FREZELER



L



Standart Form



Duble Cut X

Single Cut M(P)

Tin Duble X

Chip Breaker Y

Speedway V

Wide (Shiny) W

Çapraz

Düz

Çapraz

Talaş Kırıcı

Yüksek Performans

Alüminyum

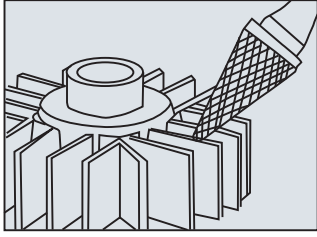
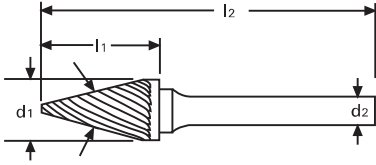
Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	$\alpha$	Radüs r	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
------------------------	----------	----------	----------	----------	------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

Arka Sap 3 mm.

3	3	13	38	14°	0.6	2.83	2.83		2.83	2.97	
5	3	13	53	14°	1.0	4.48	4.48		4.48	4.70	
6	3	12	52	14°	1.2	4.93	4.93		4.93	5.18	
6	3	19	59	14°	1.2	4.93	4.93		4.93	5.18	

Arka Sap 6 mm.

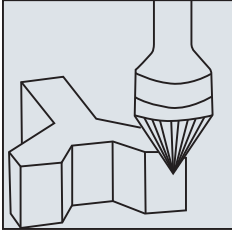
6	6	12	50	14°	1.2	11.06	11.06	11.93	11.06	11.62	
6	6	16	56	14°	1.2	11.06	11.06	11.93	11.06	11.62	12.70
8	6	22	67	14°	1.4	8.68	8.68	9.84	8.68	9.13	10.00
10	6	27	72	14°	1.6	11.98	11.98	13.43	11.98	12.60	13.78
12	6	30	75	14°	3.2	16.55	16.55	18.29	16.55	17.39	19.40
12.7	6	28	73	14°	3.2	16.80	16.80	18.64	16.80	17.64	
16	6	30	75	14°	4.8	27.08	27.08	29.39	27.08	28.42	31.14
19	6	38	83	14°	5.6	43.85	43.85	46.60	43.85	46.03	50.43

**SERT METAL (KARBÜR) KALIPÇI FREZELER**

**M**

**Standart Form**

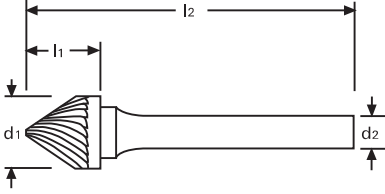
**Duble Cut X**
**Single Cut M (P)**
**Tin Duble X**
**Chip Breaker Y**
**Speedway V**
**Wide (Shiny) W**
**Çapraz**
**Düz**
**Çapraz**
**Talas Kırıcı**
**Yüksek Performans**
**Alüminyum**

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	$\alpha$	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>										
3	3	11	38	14°	2.83	2.83		2.83	2.97	
3	3	16	38	7°	2.83	2.83		2.83	2.97	
5	3	13	53	16°	4.48	4.48		4.48	4.70	
6	3	13	53	22°	4.93	4.93		4.93	5.18	
<b>Arka Sap 6 mm.</b>										
6	6	18	56	14°	11.06	11.06	11.93	11.06	11.62	
8	6	20	65	28°	8.12	8.12	9.84	8.12	8.54	
10	6	20	65	25°	9.86	9.86	11.30	9.86	10.36	
12	6	25	70	25°	14.48	14.48	16.21	14.48	15.20	
12.7	6	25	70	28°	14.70	14.70	16.54	14.70	15.43	
16	6	25	70	31°	21.06	21.06	23.37	21.06	22.12	





J



Standart Form



Duble Cut  
X

Single Cut  
M (P)

Tin Duble  
X

Chip Breaker  
Y

Speedway  
V

Wide (Shiny)  
W

Çapraz

Düz

Çapraz

Talaş Kırıcı

Yüksek Performans

Alüminyum

Kesme Çapı

$d_1$   
mm

$d_2$   
mm

$l_1$   
mm

$l_2$   
mm

$\alpha$

Birim Fiyatı  
Euro

Birim Fiyatı  
Euro

Birim Fiyatı  
Euro

Birim Fiyatı  
Euro

Birim Fiyatı  
Euro

Birim Fiyatı  
Euro

Arka Sap 3 mm.

3

3

2.5

38

60°

2.83

2.83

2.83

2.97

Arka Sap 6 mm.

6

6

4

50

60°

11.06

11.06

11.93

11.06

11.62

8

6

7

52

60°

7.53

7.53

8.69

7.53

7.90

10

6

8

58

60°

9.16

9.16

10.60

9.16

9.60

12

6

10

60

60°

13.44

13.44

15.18

13.44

14.11

12.7

6

11

61

60°

13.64

13.64

15.48

13.64

14.31

16

6

14

64

60°

19.54

19.54

21.86

19.54

20.52

19

6

16

66

60°

28.20

28.20

30.95

28.20

29.60

25

6

21

71

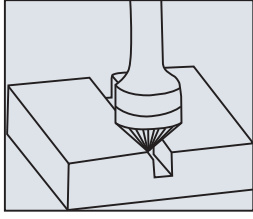
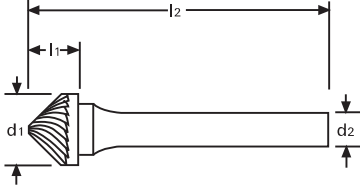
60°

49.34

49.34

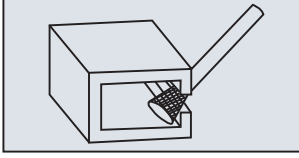
52.96

49.34

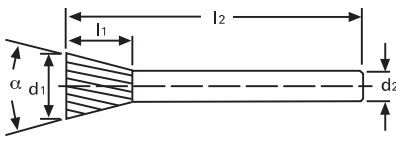
**SERT METAL (KARBÜR) KALIPÇI FREZELER**

**K**

**Standart Form**

**Duble Cut X**
**Single Cut M (P)**
**Tin Duble X**
**Chip Breaker Y**
**Speedway V**
**Wide (Shiny) W**
**Çapraz**
**Düz**
**Çapraz**
**Talaş Kırıcı**
**Yüksek Performans**
**Alüminyum**

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	$\alpha$	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>										
3	3	2	38	90°	2.83	2.83		2.83	2.97	
<b>Arka Sap 6 mm.</b>										
6	6	3	50	90°	11.06	11.06	11.93	11.06	11.62	
8	6	4	54	90°	7.53	7.53	8.69	7.53	7.90	
10	6	5	55	90°	9.16	9.16	10.60	9.16	9.60	
12	6	6	56	90°	13.44	13.44	15.18	13.44	14.11	
12.7	6	6.3	57	90°	13.64	13.64	15.48	13.64	14.31	
16	6	8	58	90°	19.54	19.54	21.86	19.54	20.52	
19	6	10	60	90°	28.20	28.20	30.95	28.20	29.60	
25	6	13	63	90°	49.34	49.34	52.96	49.34	51.80	



N



Standart Form



Duble Cut X

Single Cut M(P)

Tin Duble X

Chip Breaker Y

Speedway V

Wide (Shiny) W

Çapraz

Düz

Çapraz

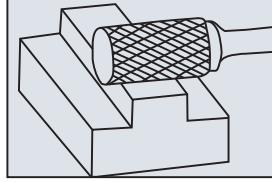
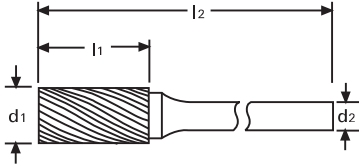
Talaş Kırıcı

Yüksek Performans

Alüminyum

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	α	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>										
3	3	4	38	10°					2.97	
3	3	7	38	10°	2.83	2.83			2.97	
5	3	5	45	10°	4.48	4.48			4.70	
6	3	6	46	10°	4.93	4.93			5.18	
<b>Arka Sap 6 mm.</b>										
6	6	8	50	10°	11.06	11.06	11.93	11.06	11.62	
10	6	10	55	13°	9.86	9.86	11.30	9.86	10.36	
12.7	6	12.7	58	28°	14.70	14.70	16.54	14.70	15.43	
16	6	19	64	18°	21.06	21.06	23.37	21.06	22.12	
19	6	16	61	30°	30.88	30.88	33.64	30.88	32.42	



**SERT METAL (KARBÜR) KALIPÇI FREZELER ÇOK UZUN SAPLI**
**A**

**Standart Form**

**Duble Cut  
X**

**Single Cut  
M (P)**
**Çapraz**
**Düz**

 Birim Fiyatı  
Euro

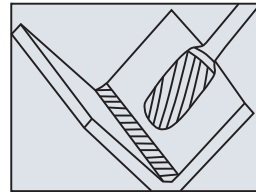
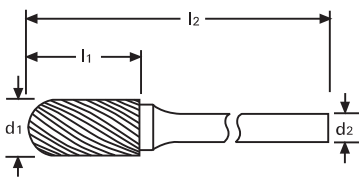
 Birim Fiyatı  
Euro

**Kesme Çapı**  
d1  
mm

 d2  
mm

 l1  
mm

 l2  
mm

**Arka Sap 3 mm.**
**3**
**3**
**14**
**50**
**4.41**
**4.41**
**3**
**3**
**14**
**75**
**5.29**
**5.29**
**3**
**3**
**14**
**150**
**11.90**
**11.90**
**6**
**3**
**13**
**88**
**7.39**
**7.39**
**Arka Sap 6 mm.**
**6**
**6**
**18**
**150**
**18.55**
**18.55**
**8**
**6**
**18**
**150**
**18.48**
**18.48**
**10**
**6**
**20**
**150**
**24.33**
**24.33**
**12**
**6**
**25**
**150**
**36.86**
**36.86**
**C**

**Standart Form**

**Duble Cut  
X**

**Single Cut  
M (P)**
**Çapraz**
**Düz**

 Birim Fiyatı  
Euro

 Birim Fiyatı  
Euro

**Kesme Çapı**  
d1  
mm

 d2  
mm

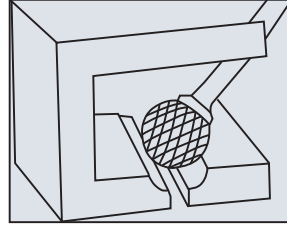
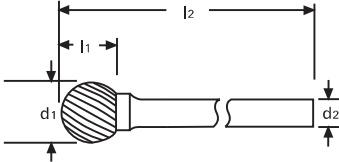
 l1  
mm

 l2  
mm

**Arka Sap 3 mm.**
**3**
**3**
**14**
**50**
**4.41**
**4.41**
**3**
**3**
**14**
**75**
**5.29**
**5.29**
**3**
**3**
**14**
**150**
**11.90**
**11.90**
**3**
**3**
**13**
**88**
**7.39**
**7.39**
**Arka Sap 6 mm.**
**6**
**6**
**18**
**150**
**18.55**
**18.55**
**8**
**6**
**20**
**80**
**12.32**
**12.32**
**8**
**6**
**20**
**150**
**18.48**
**18.48**
**10**
**6**
**20**
**150**
**24.33**
**24.33**
**12**
**6**
**25**
**150**
**36.86**
**36.86**

SERT METAL (KARBÜR) KALIPÇI FREZELER ÇOK UZUN SAPLI

**D**



Standart Form



Duble Cut X

Çapraz

Birim Fiyatı  
Euro



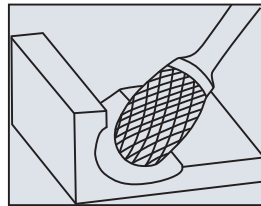
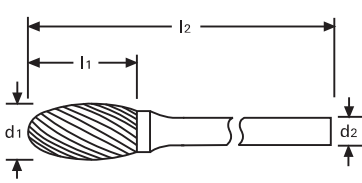
Single Cut M (P)

Düz

Birim Fiyatı  
Euro

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>					
3	3	2.8	50	4.41	4.41
3	3	2.8	75	5.29	5.29
3	3	2.8	150	11.90	11.90
6	3	5.4	80	7.39	7.39
<b>Arka Sap 6 mm.</b>					
6	6	5.4	150	18.55	18.55
8	6	7.2	150	15.23	15.23
10	6	9	150	18.48	18.48
12	6	10.8	150	27.58	27.58

**E**



Standart Form



Duble Cut X

Çapraz

Birim Fiyatı  
Euro

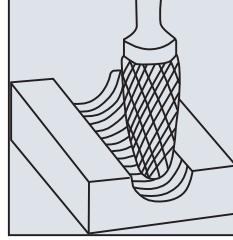
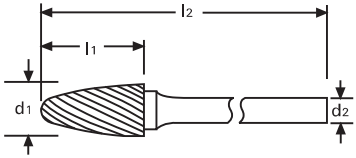


Single Cut M (P)

Düz

Birim Fiyatı  
Euro

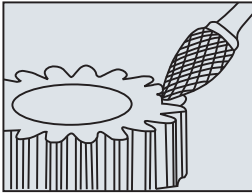
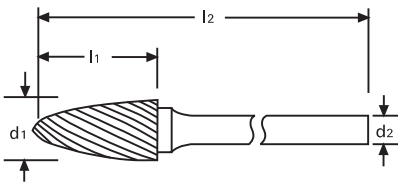
Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Radüs r	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>						
3	3	7	50	1.2	4.41	4.41
3	3	7	75	1.2	5.29	5.29
3	3	7	150	1.2	11.90	11.90
6	3	10	85	2.4	7.39	7.39
<b>Arka Sap 6 mm.</b>						
6	6	10	150	2.4	18.55	18.55
8	6	13	150	3.7	15.23	15.23
10	6	16	150	4.0	19.85	19.85
12	6	20	150	4.0	29.09	29.09

**SERT METAL (KARBÜR) KALIPÇI FREZELER ÇOK UZUN SAPLI**
**F**

**Standart Form**

**Duble Cut  
X**

**Single Cut  
M (P)**
**Çapraz**
**Düz**

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Radüs r	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>						
3	3	13	50	0,9	<b>4.41</b>	<b>4.41</b>
3	3	13	75	0,9	<b>5.29</b>	<b>5.29</b>
3	3	13	150	0,9	<b>11.90</b>	<b>11.90</b>
6	3	13	88	1,6	<b>7.39</b>	<b>7.39</b>
<b>Arka Sap 6 mm.</b>						
6	6	18	150	1,6	<b>18.55</b>	<b>18.55</b>
8	6	18	150	1,8	<b>16.28</b>	<b>16.28</b>
10	6	20	150	2,4	<b>20.65</b>	<b>20.65</b>
12	6	25	150	3,0	<b>29.89</b>	<b>29.89</b>

**G**

**Standart Form**

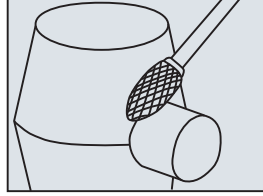
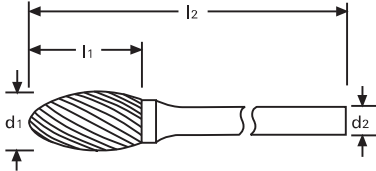
**Duble Cut  
X**

**Single Cut  
M (P)**
**Çapraz**
**Düz**

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>					
3	3	13	50	<b>4.41</b>	<b>4.41</b>
3	3	13	75	<b>5.29</b>	<b>5.29</b>
3	3	13	150	<b>11.90</b>	<b>11.90</b>
6	3	13	88	<b>7.39</b>	<b>7.39</b>
<b>Arka Sap 6 mm.</b>					
6	6	18	150	<b>18.55</b>	<b>18.55</b>
10	6	20	150	<b>19.85</b>	<b>19.85</b>
12	6	25	150	<b>29.09</b>	<b>29.09</b>

SERT METAL (KARBÜR) KALIPÇI FREZELER ÇOK UZUN SAPLI

**H**



Standart Form



Duble Cut  
X

Çapraz

Birim Fiyatı  
Euro



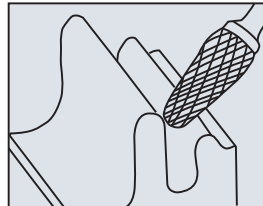
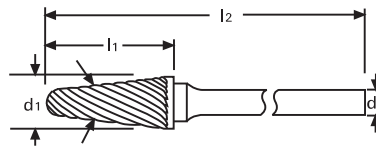
Single Cut  
M (P)

Düz

Birim Fiyatı  
Euro

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Radüs r	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>						
3	3	13	50	0.8	4.41	4.41
3	3	13	75	0.8	5.29	5.29
<b>Arka Sap 6 mm.</b>						
6	6	18	150	1.0	18.55	18.55
8	6	20	150	1.6	17.40	17.40
12	6	32	150	2.4	39.38	39.38

**L**



Standart Form



Duble Cut  
X

Çapraz

Birim Fiyatı  
Euro

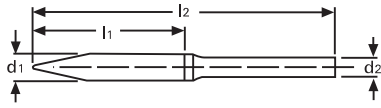


Single Cut  
M (P)

Düz

Birim Fiyatı  
Euro

Kesme Çapı d1 mm	d2 mm	l1 mm	l2 mm	Radüs r	Birim Fiyatı Euro	Birim Fiyatı Euro
<b>Arka Sap 3 mm.</b>						
3	3	13	50	0.6	4.41	4.41
3	3	13	75	0.6	5.29	5.29
3	3	13	150	0.6	11.90	11.90
<b>Arka Sap 6 mm.</b>						
6	6	16	150	1.2	18.55	18.55
10	6	27	150	1.6	22.47	22.47
12	6	30	150	3.2	31.05	31.05

**SERT METAL (KARBÜR) KALIPÇI FREZELER ÇOK UZUN SAPLI**

**Round Flat Shank**

**Three Flat Shank**

Kesme Çapı d <sub>1</sub> mm	d <sub>2</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	Birim Fiyatı Euro	Birim Fiyatı Euro
3	3	31	65	<b>10.99</b>	<b>11.55</b>
4	4	52	75	<b>24.19</b>	<b>25.41</b>
6	6	52	80	<b>30.91</b>	<b>32.45</b>
8	8	52	100	<b>57.33</b>	<b>60.20</b>
10	9.5	65	110	<b>60.20</b>	<b>63.21</b>
13	9.5	78	125	<b>91.00</b>	<b>95.55</b>



# MANYETİK MATKAP UÇLAR

## Uygun Kullanım Yeri

Magnetik tablalı portatif makineler ile çelik konstrüksiyon yapı, köprü inşası ve benzeri yerlerde hızlı, hassas delme işlemlerinde kullanılır.


**HSS**
**HSSE**

Kesici Çapı mm	Kesici Derinliği mm	Tüm Uzunluğu mm	Birim Fiyatı Euro	Birim Fiyatı Euro
12	25	62	18.48	24.64
13	25	62	18.48	24.64
14	25	62	20.41	26.30
15	25	62	20.41	26.30
16	25	62	22.67	28.53
17	25	62	22.67	28.53
18	25	62	24.44	30.76
19	25	62	24.44	30.76
20	25	62	27.10	34.10
21	25	62	27.10	34.10
22	25	62	30.40	38.26
23	25	62	30.40	38.26
24	25	62	32.79	41.26
25	25	62	32.79	41.26
26	25	62	35.07	44.26
27	25	62	36.37	45.77
28	25	62	36.71	46.20
29	25	62	38.05	47.89
30	25	62	38.59	48.77
31	25	62	41.23	53.13
32	25	62	42.70	55.03
33	25	62	44.22	56.99
34	25	62	45.86	59.10
35	25	62	47.09	63.28
36	25	62	49.48	66.56
37	25	62	51.27	69.04
38	25	62	52.46	71.57
39	25	62	53.65	74.20
40	25	62	55.10	81.48
41	25	62	57.82	86.32
42	25	62	62.64	89.13
43	25	62	65.58	92.06
44	25	62	70.56	95.18
45	25	62	72.59	98.27
46	25	62	75.59	102.35
47	25	62	77.62	105.49
48	25	62	79.91	108.89
49	25	62	82.02	112.15
50	25	62	87.02	118.32
51	25	62	89.61	122.10
52	25	62	91.86	125.56
53	25	62	94.47	129.41
54	25	62	96.79	132.98
55	25	62	99.23	136.69
56	25	62	103.05	141.82
57	25	62	105.50	145.59
58	25	62	108.09	149.53
59	25	62	110.61	153.41
60	25	62	113.52	157.71

# MANYETİK MATKAP UÇLAR

## Uygun Kullanım Yeri

Magnetik tablalı portatif makineler ile çelik konstrüksiyon yapı, köprü inşası ve benzeri yerlerde hızlı, hassas delme işlemlerinde kullanılır.


**HSS**
**HSSE**

Kesici Çapı mm	Kesici Derinliği mm	Tüm Uzunluğu mm	Birim Fiyatı Euro	Birim Fiyatı Euro
12	50	87	23.85	32.47
13	50	87	23.85	32.47
14	50	87	25.63	34.37
15	50	87	25.63	34.37
16	50	87	27.42	35.89
17	50	87	27.42	35.89
18	50	87	29.21	38.23
19	50	87	29.21	38.23
20	50	87	33.00	43.19
21	50	87	33.00	43.19
22	50	87	35.77	48.62
23	50	87	35.77	48.62
24	50	87	40.54	55.10
25	50	87	40.54	55.10
26	50	87	42.33	57.53
27	50	87	43.52	59.15
28	50	87	45.30	61.58
29	50	87	47.69	64.82
30	50	87	49.48	67.25
31	50	87	50.67	68.87
32	50	87	52.46	71.30
33	50	87	54.84	74.91
34	50	87	57.23	78.07
35	50	87	60.21	84.95
36	50	87	63.19	89.67
37	50	87	66.77	93.02
38	50	87	69.15	96.44
39	50	87	71.54	100.00
40	50	87	75.11	110.04
41	50	87	78.10	116.43
42	50	87	80.48	120.23
43	50	87	82.86	124.17
44	50	87	85.25	128.36
45	50	87	88.23	132.51
46	50	87	92.40	138.34
47	50	87	100.15	142.59
48	50	87	104.33	147.12
49	50	87	107.31	151.54
50	50	87	112.67	159.64
51	50	87	116.24	164.63
52	50	87	118.63	169.31
53	50	87	121.61	174.39
54	50	87	124.59	179.26
55	50	87	127.57	184.19
56	50	87	133.54	192.00
57	50	87	137.11	197.17
58	50	87	140.09	202.45
59	50	87	143.67	207.74
60	50	87	147.25	213.55

## MANYETİK MATKAP UÇLAR

### Uygun Kullanım Yeri

Magnetik tablalı portatif makineler ile çelik konstrüksiyon yapı, köprü inşası ve benzeri yerlerde hızlı, hassas delme işlemlerinde kullanılır.



### HSS

### HSSE

Kesici Çapı mm	Kesici Derinliği mm	Tüm Uzunluğu mm	Birim Fiyatı Euro	Birim Fiyatı Euro
18	75	113	46.84	61.25
19	75	113	46.84	63.78
20	75	113	52.91	66.47
21	75	113	52.91	69.32
22	75	113	57.35	72.33
23	75	113	57.35	75.24
24	75	113	65.00	79.95
25	75	113	65.00	84.27
26	75	113	67.87	89.31
27	75	113	69.78	97.02
28	75	113	72.65	102.94
29	75	113	76.47	107.92
30	75	113	79.34	113.60
31	75	113	81.25	119.46
32	75	113	84.12	125.47
33	75	113	87.95	131.65
34	75	113	91.77	138.54
35	75	113	96.55	149.46
36	75	113	101.33	168.27
37	75	113	107.06	183.06
38	75	113	110.89	183.65
39	75	113	114.71	198.06
40	75	113	120.45	207.32
41	75	113	125.22	217.94
42	75	113	128.53	225.76
43	75	113	132.87	234.95
44	75	113	136.70	243.12
45	75	113	141.47	251.47
46	75	113	148.17	260.59
47	75	113	160.59	269.60
48	75	113	167.28	279.07
49	75	113	172.06	288.12
50	75	113	180.67	301.51
51	75	113	186.41	310.91
52	75	113	190.22	321.09
53	75	113	195.01	332.03
54	75	113	199.79	342.55
55	75	113	204.57	353.25
56	75	113	214.12	
57	75	113	219.86	
58	75	113	224.64	
59	75	113	230.37	
60	75	113	236.11	



# MANYETİK MATKAP UÇLAR

## Uygun Kullanım Yeri

Magnetik tablalı portatif makineler ile çelik konstrüksiyon yapı, köprü inşası ve benzeri yerlerde hızlı, hassas delme işlemlerinde kullanılır.



### HSS

### HSSE

Kesici Çapı mm	Kesici Derinliği mm	Tüm Uzunluğu mm	Birim Fiyatı Euro	Birim Fiyatı Euro
18	100	143	65.58	86.05
19	100	143	65.58	89.08
20	100	143	74.07	92.30
21	100	143	74.07	95.74
22	100	143	80.30	99.38
23	100	143	80.30	103.64
24	100	143	91.00	107.70
25	100	143	91.00	112.38
26	100	143	89.84	118.08
27	100	143	97.69	127.16
28	100	143	101.71	133.27
29	100	143	107.06	139.59
30	100	143	111.08	146.94
31	100	143	113.75	153.68
32	100	143	117.77	161.49
33	100	143	123.12	168.59
34	100	143	128.47	176.36
35	100	143	135.17	192.29
36	100	143	141.86	223.12
37	100	143	149.89	242.42
38	100	143	155.24	243.24
39	100	143	160.28	262.13
40	100	143	168.62	274.40
41	100	143	175.32	288.57
42	100	143	180.67	298.81
43	100	143	186.02	310.91
44	100	143	191.37	321.66
45	100	143	198.06	332.60
46	100	143	207.43	344.60
47	100	143	224.83	356.32
48	100	143	234.20	368.78
49	100	143	240.89	380.64
50	100	143	252.93	398.53
51	100	143	260.97	410.85
52	100	143	266.32	424.23
53	100	143	273.01	438.67
54	100	143	279.70	452.51
55	100	143	286.39	466.58
56	100	143	299.77	
57	100	143	307.81	
58	100	143	314.49	
59	100	143	322.53	
60	100	143	330.55	



SERTLİĞİ 44-49 HRC

TİP	Sıkma Kapasitesi mm	Hassasiyet mm	Birim Fiyatı Euro
ER16	1.0-0.5	0.02	7.63
ER16	2.0-1.0	0.02	7.63
ER16	3.0-2.0	0.02	7.63
ER16	4.0-3.0	0.02	7.63
ER16	5.0-4.0	0.02	7.63
ER16	6.0-5.0	0.02	7.63
ER16	7.0-6.0	0.02	7.63
ER16	8.0-7.0	0.02	7.63
ER16	9.0-8.0	0.02	7.63
ER16	10.0-9.0	0.02	7.63
ER25	2.0-1.0	0.02	8.64
ER25	3.0-2.0	0.02	8.64
ER25	4.0-3.0	0.02	8.64
ER25	5.0-4.0	0.02	8.64
ER25	6.0-5.0	0.02	8.64
ER25	7.0-6.0	0.02	8.64
ER25	8.0-7.0	0.02	8.64
ER25	9.0-8.0	0.02	8.64
ER25	10.0-9.0	0.02	8.64
ER25	11.0-10.0	0.02	8.64
ER25	12.0-11.0	0.02	8.64
ER25	13.0-12.0	0.02	8.64
ER25	14.0-13.0	0.02	8.64
ER25	15.0-14.0	0.02	8.64
ER25	16.0-15.0	0.02	8.64
ER32	3.0-2.0	0.02	9.15
ER32	4.0-3.0	0.02	9.15
ER32	5.0-4.0	0.02	9.15
ER32	6.0-5.0	0.02	9.15
ER32	7.0-6.0	0.02	9.15
ER32	8.0-7.0	0.02	9.15
ER32	9.0-8.0	0.02	9.15
ER32	10.0-9.0	0.02	9.15
ER32	11.0-10.0	0.02	9.15
ER32	12.0-11.0	0.02	9.15
ER32	13.0-12.0	0.02	9.15
ER32	14.0-13.0	0.02	9.15

TİP	Sıkma Kapasitesi mm	Hassasiyet mm	Birim Fiyatı Euro
ER32	15.0-14.0	0.02	9.15
ER32	16.0-15.0	0.02	9.15
ER32	17.0-16.0	0.02	9.15
ER32	18.0-17.0	0.02	9.15
ER32	19.0-18.0	0.02	9.15
ER32	20.0-19.0	0.02	9.15
ER40	4.0-3.0	0.02	11.69
ER40	5.0-4.0	0.02	11.69
ER40	6.0-5.0	0.02	11.69
ER40	7.0-6.0	0.02	11.69
ER40	8.0-7.0	0.02	11.69
ER40	9.0-8.0	0.02	11.69
ER40	10.0-9.0	0.02	11.69
ER40	11.0-10.0	0.02	11.69
ER40	12.0-11.0	0.02	11.69
ER40	13.0-12.0	0.02	11.69
ER40	14.0-13.0	0.02	11.69
ER40	15.0-14.0	0.02	11.69
ER40	16.0-15.0	0.02	11.69
ER40	17.0-16.0	0.02	11.69
ER40	18.0-17.0	0.02	11.69
ER40	19.0-18.0	0.02	11.69
ER40	20.0-19.0	0.02	11.69
ER40	21.0-20.0	0.02	11.69
ER40	22.0-21.0	0.02	11.69
ER40	23.0-22.0	0.02	11.69
ER40	24.0-23.0	0.02	11.69
ER40	25.0-24.0	0.02	11.69
ER40	26.0-25.0	0.02	11.69



ERMAK TEKNİK MALZEME



## TAŞ DÜZELTME ELMASLARI



# TAŞ DÜZELTME ELMASLARI

## WISDOM TEKTAŞ TAŞ DÜZELTME ELMASLARI



KRAT	TAŞLANACAK TAŞIN ÖLÇÜLERİ mm	C Kalite Fiyatı Euro	B Kalite Fiyatı Euro	A Kalite Fiyatı Euro
0.30	100 x 20 - 200 x 10 mm	8.64	12.96	17.28
0.40	175 x 25 - 300 x 14 mm	11.52	17.28	23.04
0.50	200 x 30 - 350 x 18 mm	14.40	21.60	28.80
0.70	250 x 50 - 400 x 35 mm	20.16	28.80	40.32
0.75	250 x 50 - 400 x 35 mm	21.60	33.12	43.20
1.00	300 x 70 - 500 x 40 mm	28.80	43.20	57.60
1.50	400 x 100 - 800 x 50 mm	43.20	66.24	86.40
2.00	500 x 100 - 900 x 60 mm	72.00	86.40	115.20
2.50	500 x 140 - 900 x 70 mm	86.40	115.20	158.40
3.00	500 x 200 - 900 x 110 mm	100.80	144.00	201.60
4.00	600 x 250 - 900 x 130 mm	144.00	187.20	253.44
5.00	700 x 300 - 1000 x 150 mm	172.80	259.20	316.80

## WISDOM PROFİL ELMASI

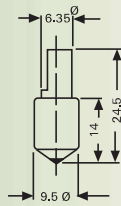


KOD	AÇI	RADÜS	Fiyatı Euro
W - 201	40	0.125	176.00
W - 201	40	0.250	176.00
W - 201	60	0.125	176.00
W - 201	60	0.250	176.00

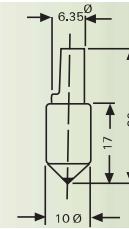
## WISDOM ROCKWELL SERTLİK ÖLÇME UCU

KOD	CİHAZIN ADI	Fiyatı Euro
W - 511	ORIGINAL ROCKWELL	108.00
W - 512	WOLPERT TESTOR	108.00

W - 511



W - 512



## WISDOM ÇOK TANELİ TAŞ DÜZELTME ELMASI

KOD	KRAT	Fiyatı Euro
W - DM	1.00	45.00
W - DM	1.40	60.00
W - DM	2.00	72.00
W - DM	2.50	84.00



## TAŞ DÜZELTME ELMASLARI

### WISDOM ÇOK TANELİ TAŞ DÜZELTME ELMASI



KOD	KRAT	Fiyatı Euro
W - V 20	2.00	<b>44.20</b>
W - V 40	2.50	<b>46.20</b>
W - V 60	3.50	<b>53.50</b>
W - V 80	5.00	<b>68.40</b>


**K**

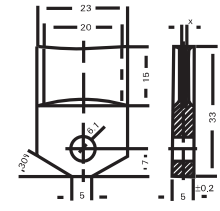
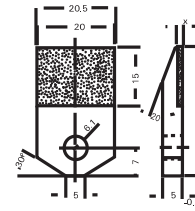
Korund taşlar için


**S**

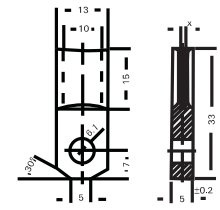
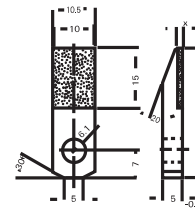
Silisyum Karpit Taşlar İçin

### WISDOM PLAKET TAŞ DÜZELTME ELMASLARI

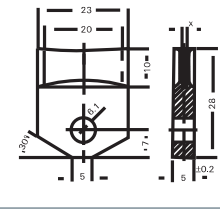
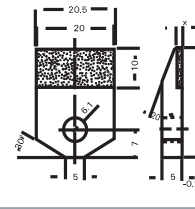
KOD	PLAKET ÖLÇÜLERİ (20x15 mm)	Fiyatı Euro	Fiyatı Euro
	KRAT	K	S
W - PA 115	1.15	<b>88.00</b>	<b>106.00</b>
W - PA 140	1.14	<b>90.00</b>	<b>108.00</b>
W - PA 180	1.80	<b>124.00</b>	<b>149.00</b>



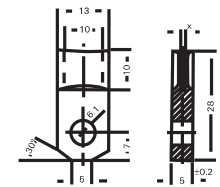
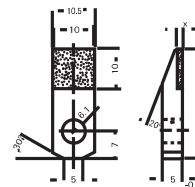
KOD	PLAKET ÖLÇÜLERİ (10x15 mm)	Fiyatı Euro	Fiyatı Euro
	KRAT	K	S
W - PB 140	1.14	<b>90.00</b>	<b>108.00</b>
W - PB 180	1.80	<b>124.00</b>	<b>149.00</b>



KOD	PLAKET ÖLÇÜLERİ (20x10 mm)	Fiyatı Euro	Fiyatı Euro
	KRAT	K	S
W - PC 115	1.15	<b>88.00</b>	<b>106.00</b>
W - PC 140	1.14	<b>90.00</b>	<b>108.00</b>
W - PC 180	1.80	<b>124.00</b>	<b>149.00</b>




KOD	PLAKET ÖLÇÜLERİ (10x10 mm)	Fiyatı Euro	Fiyatı Euro
	KRAT	K	S
W - PD 140	1.14	<b>90.00</b>	<b>108.00</b>
W - PD 180	1.80	<b>124.00</b>	<b>149.00</b>



## TAŞ DÜZELTME ELMASLARI ve ELMAS EĞELER


### WISDOM ÇOK TANELİ TEKERLEK TAŞ DÜZELTME ELMASI

KOD	L2 mm	L1 mm	KRAT	ELMAS MİKTARI Adet	Fiyatı Euro
W - 401	15	5	0.50	40	30.00
W - 402	15	5	0.75	50	33.00
W - 403	20	8	1.00	24	44.00
W - 404	20	8	2.00	96	66.00
W - 405	20	8	2.00	160	110.00
W - 406	20	5	1.00	8	44.00
W - 407	25	5	2.00	16	66.00
W - 408	25	5	5.00	240	154.00




### WISDOM ELMAS EĞE TAKIMI 5 PARÇALI

KOD	MM	KUM	Takım Fiyatı Euro
W - PF 3-5	140 mm	120	8.22




### WISDOM ELMAS EĞE TAKIMI 10 PARÇALI

KOD	MM	KUM	Takım Fiyatı Euro
W - PF 3-10	140 mm	120	16.80




### WISDOM ELMAS EĞELER (Tek)

KOD	MM	KUM	Birim Fiyatı Euro
W - PF101 LAMA	140 mm	120	1.65
W - PF102 BALIK SIRTI	140 mm	120	1.65
W - PF103 YUVARLAK	140 mm	120	1.65
W - PF104 KARE	140 mm	120	1.65
W - PF105 ÜÇGEN	140 mm	120	1.65




### WISDOM ELMAS EĞE TAKIMI 5 PARÇALI

KOD	MM	KUM	Takım Fiyatı Euro
W - PF 5-5	180 mm	120	17.88



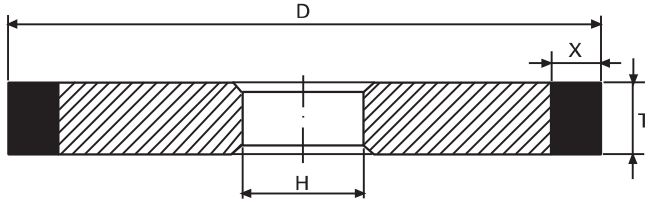
### WISDOM ELMAS EĞELER (Tek)

KOD	MM	KUM	Birim Fiyatı Euro
W - PF301 LAMA	180 mm	120	3.59
W - PF302 BALIK SIRTI	180 mm	120	3.59
W - PF303 YUVARLAK	180 mm	120	3.59
W - PF304 KARE	180 mm	120	3.59
W - PF305 ÜÇGEN	180 mm	120	3.59



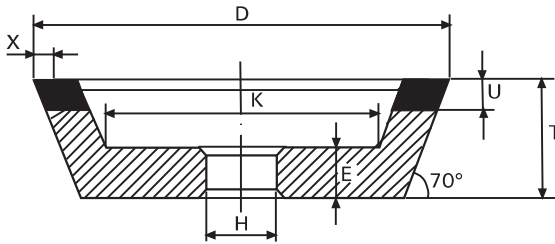
## ELMAS ÇANAK TAŞLAR (DIAMOND)

### WISDOM ELMAS ÇANAK TAŞ-DİK (DIAMOND)



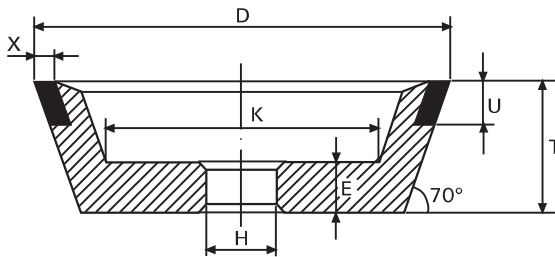
Kod	Çapı D mm	Elmas Genişliği T mm	Delik Çapı H mm	Elmas Kalınlığı X mm	Birim Fiyatı EURO
W 1A1/T2	75	6	20	3	17.03
W 1A1/T2	100	8	20	4	27.30
W 1A1/T2	100	10	20	4	29.50
W 1A1/T2	125	8	20	4	27.30
W 1A1/T2	125	10	20	4	29.50
W 1A1/T2	150	8	32	4	38.00
W 1A1/T2	150	12	32	4	40.00
W 1A1/T2	200	8	32	4	48.00
W 1A1/T2	200	15	32	4	51.20

### WISDOM ELMAS ÇANAK TAŞ KONİK (DIAMOND)



Kod	Çapı D mm	Yükseklik T mm	Delik Çapı H mm	Elmas Kalınlığı X mm	Radius K mm	Elmas Genişliği U mm	Birim Fiyatı EURO
12A2/45	50	25	10	2.5	32	5	
12A2/45	75	30	20	3.5	40	5	34.50
12A2/45	100	35	20	3.5	55	7	44.00
12A2/45	125	40	20	3.5	75	7	46.00
12A2/45	150	50	32	5	90	7	52.00


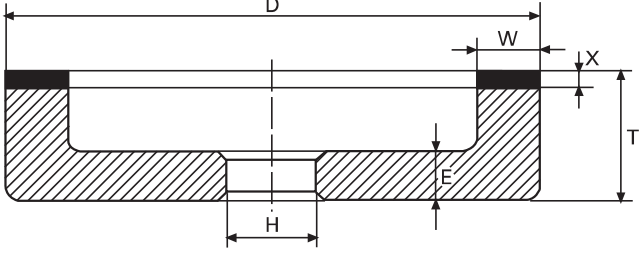
### WISDOM ELMAS ÇANAK TAŞ KONİK (DIAMOND)



Kod	Çapı D mm	Yükseklik T mm	Delik Çapı H mm	Elmas Kalınlığı X mm	Radius K mm	Elmas Genişliği U mm	Birim Fiyatı EURO
W 11V9	50	25	10	2.5	32	5	
W 11V9	75	30	20	3.5	40	5	34.50
W 11V9	100	35	20	3.5	55	7	42.00
W 11V9	125	40	20	3.5	75	7	43.50
W 11V9	150	50	32	5	90	7	43.50


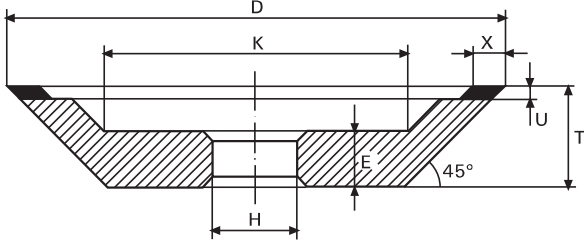
## ELMAS ÇANAK TAŞLAR (DIAMOND)

### WİSDOM ELMAS ÇANAK TAŞ DİK (DIAMOND)


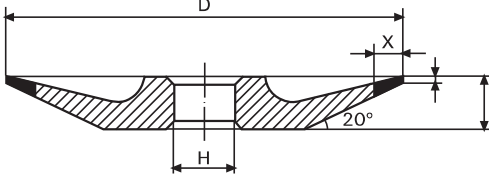
Kod	Çapı D mm	Yükseklik T mm	Delik Çapı H mm	Elmas Kalınlığı X mm	Elmas Genişliği W mm	Birim Fiyatı EURO
W 6A2 (B)	50	10	10	3	5	31.00
W 6A2 (B)	75	22	20	3	5	31.00
W 6A2 (B)	100	29	20	3	5	42.00
W 6A2 (B)	100	29	20	3	10	42.00
W 6A2 (B)	125	29	20	4	10	45.00
W 6A2 (B)	125	29	20	4	12	45.00
W 6A2 (B)	150	29	32	4	10	50.00
W 6A2 (B)	150	29	32	4	12	50.00

### WİSDOM ELMAS ÇANAK TAŞ YARIM KONİK (DIAMOND)

Kod	Çapı D mm	Yükseklik T mm	Delik Çapı H mm	Elmas Kalınlığı U mm	Elmas Genişliği X mm	Birim Fiyatı EURO
W 12V2 (D2)	75	10	20	3	3	35.00
W 12V2 (D2)	100	10	20	3	3	42.00
W 12V2 (D2)	125	16	32	3	5	45.00
W 12V2 (D2)	150	16	32	3	5	50.00

### WİSDOM ELMAS ÇANAK TAŞ İNCE UÇLU YARIM KONİK (DIAMOND)






Kod	Çapı D mm	Yükseklik T mm	Delik Çapı H mm	Elmas Kalınlığı a mm	Elmas Genişliği X mm	Birim Fiyatı EURO
W 12D1 (D3)	75	6	10	1	6	35.00
W 12D1 (D3)	100	8	20	1	6	35.00





## PCD ve PCBN ELMAS UÇLAR


### WISDOM (PCD) ALÜMİNYUM İÇİN ELMAS UÇLAR


KOD	Birim Fiyatı EURO	
CCMW 060202	<b>22.92</b>	
CCMW 060204	<b>22.92</b>	
CCMW 09T304	<b>22.92</b>	
CCMW 09T308	<b>22.92</b>	
CCMW 120404	<b>22.92</b>	
CCMW 120408	<b>22.92</b>	


KOD	Birim Fiyatı EURO	
DCMW 070202	<b>22.92</b>	
DCMW 070204	<b>22.92</b>	
DCMW 11T304	<b>22.92</b>	
DCMW 11T308	<b>22.92</b>	


KOD	Birim Fiyatı EURO	
DNMA 150604	<b>22.92</b>	
DNMA 150608	<b>22.92</b>	

KOD	Birim Fiyatı EURO	
TCMW 16T304	<b>22.92</b>	
TCMW 16T308	<b>22.92</b>	

KOD	Birim Fiyatı EURO	
TPGX 090304	<b>22.92</b>	
TPGX 110304	<b>22.92</b>	


KOD	Birim Fiyatı EURO	
TNMA 160404	<b>22.92</b>	
TNMA 160408	<b>22.92</b>	


KOD	Birim Fiyatı EURO	
VNMA 160404	<b>22.92</b>	
VNMA 160408	<b>22.92</b>	


KOD	Birim Fiyatı EURO	
VBMW 160404	<b>22.92</b>	
VBMW 160408	<b>22.92</b>	


KOD	Birim Fiyatı EURO	
WCMW 110304	<b>22.92</b>	


### WISDOM (PCBN) ÇELİK İÇİN ELMAS UÇLAR


KOD	Birim Fiyatı EURO	
CCMW 060202	<b>26.10</b>	
CCMW 060204	<b>26.10</b>	
CCMW 09T304	<b>26.10</b>	
CCMW 09T308	<b>26.10</b>	
CCMW 120404	<b>26.10</b>	
CCMW 120408	<b>26.10</b>	


KOD	Birim Fiyatı EURO	
CNMA 120404	<b>26.10</b>	
CNMA 120408	<b>26.10</b>	

KOD	Birim Fiyatı EURO	
DCMW 070202	<b>26.10</b>	
DCMW 070204	<b>26.10</b>	
DCMW 11T304	<b>26.10</b>	
DCMW 11T308	<b>26.10</b>	

KOD	Birim Fiyatı EURO	
DNMA 150604	<b>26.10</b>	
DNMA 150608	<b>26.10</b>	
DNMA 150612	<b>26.10</b>	

KOD	Birim Fiyatı EURO	
TCMW 16T304	<b>26.10</b>	
TCMW 16T308	<b>26.10</b>	


KOD	Birim Fiyatı EURO	
TNMA 160404	<b>26.10</b>	
TNMA 160408	<b>26.10</b>	


KOD	Birim Fiyatı EURO	
VBMW 160404	<b>26.10</b>	
VBMW 160408	<b>26.10</b>	


KOD	Birim Fiyatı EURO	
WNMA 080404	<b>26.10</b>	
WNMA 080408	<b>26.10</b>	


## PCD ve PCBN ELMAS UÇLAR


### WISDOM (PCD) İKİ YÖNLÜ ALÜMİNYUM İÇİN ELMAS UÇLAR


KOD	Birim Fiyatı EURO	
CCMW 060202	<b>36.72</b>	
CCMW 060204	<b>36.72</b>	
CCMW 09T304	<b>36.72</b>	
CCMW 09T308	<b>36.72</b>	
CCMW 120404	<b>36.72</b>	
CCMW 120408	<b>36.72</b>	


KOD	Birim Fiyatı EURO	
DCMW 070202	<b>36.72</b>	
DCMW 070204	<b>36.72</b>	
DCMW 11T304	<b>36.72</b>	
DCMW 11T308	<b>36.72</b>	


KOD	Birim Fiyatı EURO	
DNMA 150604	<b>36.72</b>	
DNMA 150608	<b>36.72</b>	

KOD	Birim Fiyatı EURO	
TCMW 16T304	<b>36.72</b>	
TCMW 16T308	<b>36.72</b>	

KOD	Birim Fiyatı EURO	
TPGX 090304	<b>36.72</b>	
TPGX 110304	<b>36.72</b>	


KOD	Birim Fiyatı EURO	
TNMA 160404	<b>36.72</b>	
TNMA 160408	<b>36.72</b>	


KOD	Birim Fiyatı EURO	
VNMA 160404	<b>36.72</b>	
VNMA 160408	<b>36.72</b>	


KOD	Birim Fiyatı EURO	
VBMW 160404	<b>36.72</b>	
VBMW 160408	<b>36.72</b>	


KOD	Birim Fiyatı EURO	
WCMW 110304	<b>36.72</b>	


### WISDOM (PCBN) İKİ YÖNLÜ ÇELİK İÇİN ELMAS UÇLAR


KOD	Birim Fiyatı EURO	
CCMW 060202	<b>41.76</b>	
CCMW 060204	<b>41.76</b>	
CCMW 09T304	<b>41.76</b>	
CCMW 09T308	<b>41.76</b>	
CCMW 120404	<b>41.76</b>	
CCMW 120408	<b>41.76</b>	


KOD	Birim Fiyatı EURO	
CNMA 120404	<b>41.76</b>	
CNMA 120408	<b>41.76</b>	

KOD	Birim Fiyatı EURO	
DCMW 070202	<b>41.76</b>	
DCMW 070204	<b>41.76</b>	
DCMW 11T304	<b>41.76</b>	
DCMW 11T308	<b>41.76</b>	

KOD	Birim Fiyatı EURO	
DNMA 150604	<b>41.76</b>	
DNMA 150608	<b>41.76</b>	
DNMA 150612	<b>41.76</b>	

KOD	Birim Fiyatı EURO	
TCMW 16T304	<b>41.76</b>	
TCMW 16T308	<b>41.76</b>	

KOD	Birim Fiyatı EURO	
TNMA 160404	<b>41.76</b>	
TNMA 160408	<b>41.76</b>	

KOD	Birim Fiyatı EURO	
VBMW 160404	<b>41.76</b>	
VBMW 160408	<b>41.76</b>	

KOD	Birim Fiyatı EURO	
WNMA 080404	<b>41.76</b>	
WNMA 080408	<b>41.76</b>	




ERMAK TEKNİK MALZEME

**AUDIA**

**TAŞ DÜZELTME ELMASLARI**




### AUDIA TAŞ DÜZELTME ELMASLARI

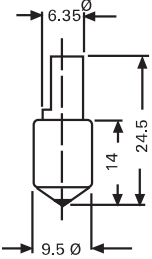
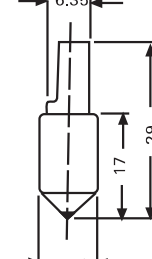
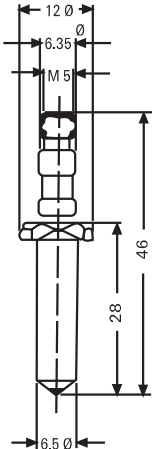
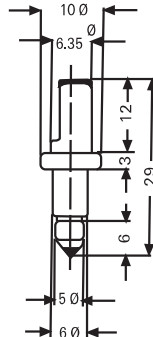
	KRAT	TAŞLANACAK TAŞIN ÖLÇÜLERİ mm	D Kalite Birim Fiyatı EURO
		0.30	100 x 20 - 200 x 10 mm
0.40		175 x 25 - 300 x 14 mm	<b>19.28</b>
0.50		200 x 30 - 350 x 18 mm	<b>23.24</b>
0.70		250 x 50 - 400 x 35 mm	<b>32.18</b>
0.75		250 x 50 - 400 x 35 mm	<b>34.43</b>
1.00		300 x 70 - 500 x 40 mm	<b>47.03</b>
1.50		400 x 100 - 800 x 50 mm	<b>63.00</b>
2.00		500 x 100 - 900 x 60 mm	<b>76.73</b>
2.50		500 x 140 - 900 x 70 mm	<b>103.96</b>
3.00		500 x 200 - 900 x 110 mm	<b>132.08</b>
4.00		600 x 250 - 900 x 130 mm	<b>184.60</b>
5.00	700 x 300 - 1000 x 150 mm	<b>232.00</b>	

### AUDIA PROFİL ELMASI

	KOD	AÇI	RADÜS	Birim Fiyatı EURO
		201	40° VEYA 60°	0.125 0.250 0.500

### AUDIA ROCKWELL SERTLİK ÖLÇME UCU

	KOD	CİHAZ ADI	Birim Fiyatı EURO
		511	ORIGINAL ROCKWELL
512		WOLPERT TESTOR	<b>340.00</b>
513		BRIO UVN	<b>360.00</b>
514		TESTOR AUTOMAT	<b>360.00</b>

511	512	513	514
			

## TAĞI DÜZELTME ELMASLARI

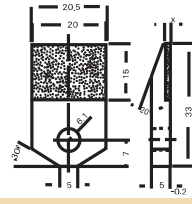
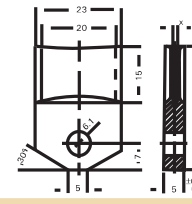
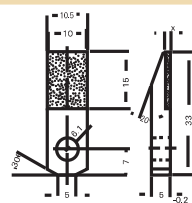
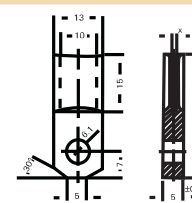
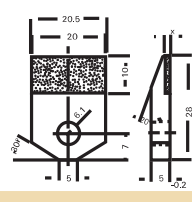
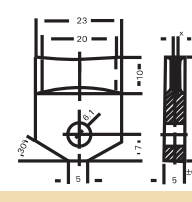
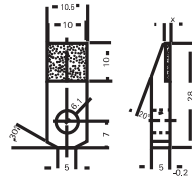
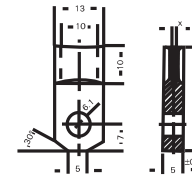
### AUDIA TEKERLEK TAĞI DÜZELTME ELMASI

KOD	L2 mm	L1 mm	KRAT	ELMAS MİKTARI Adet	Birim Fiyat EURO
401	15	5	0.50	40	172.00
402	15	5	0.75	50	187.00
404	20	8	2.00	96	360.00
405	20	8	2.00	160	360.00
408	20	8	5.00	240	507.00
403	20	5	1.00	24	264.00
406	25	5	1.00	8	718.00
407	25	5	2.00	16	970.00



### AUDIA PLAKET TAĞI DÜZELTME ELMASLARI



KOD	KRAT	Birim Fiyat	Birim Fiyat	K Korund taflar için	S Silisyum Karbit Taflar için
		EURO K	EURO S		
<b>PLAKET ÖLÇÜLERİ (20 x 15 mm)</b>					
PA 75	0.75	214.00	316.00		
PA 90	0.90	239.00	339.00		
PA 115	1.15	281.00	382.00		
PA 140	1.40	320.00	420.00		
PA 180	1.80	381.00	480.00		
<b>PLAKET ÖLÇÜLERİ (10 x 15 mm)</b>					
PB 75	0.75	160.00	260.00		
PB 90	0.90	171.00	274.00		
PB 115	1.15	188.00	288.00		
PB 140	1.40	205.00	305.00		
PB 180	1.80	233.00	332.00		
<b>PLAKET ÖLÇÜLERİ (20 x 10 mm)</b>					
PC 75	0.75	192.00	293.00		
PC 90	0.90	210.00	318.00		
PC 115	1.15	233.00	332.00		
PC 140	1.40	263.00	364.00		
PC 180	1.80	303.00	405.00		
<b>PLAKET ÖLÇÜLERİ (10 x 10 mm)</b>					
PD 75	0.75	148.00	250.00		
PD 90	0.90	154.00	256.00		
PD 115	1.15	169.00	271.00		
PD 140	1.40	183.00	282.00		
PD 180	1.80	202.00	302.00		

### AUDIA ÇOK TANELİ İNCE TAŞ DÜZELTME ELMASI

TİP	EBAT	KRAT	Birim Fiyatı
			EURO
F 6	4Ø x 8	0.60	<b>114.00</b>
F10	5Ø x 8	1.00	<b>124.00</b>
F13	6Ø x 8	1.30	<b>137.00</b>
F24	8Ø x 8	2.40	<b>165.00</b>

### AUDIA ÇOK TANELİ TAŞ DÜZELTME ELMASI

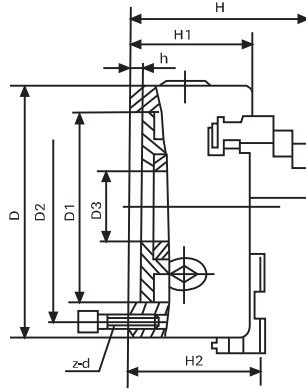
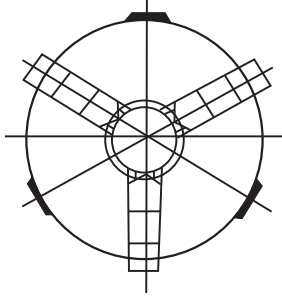
TİP	EBAT	KRAT	Birim Fiyatı
			EURO
V20 V60 V80	80 x 11 mm	1.00	<b>157.00</b>
V20 V60 V80	80 x 11 mm	2.5	<b>227.00</b>
V20 V60 V80	80 x 11 mm	3.5	<b>275.00</b>
V20 V60 V80	8 x 11 mm	5.00	<b>342.00</b>

### AUDIA ELMAS EĞELER (Tek)

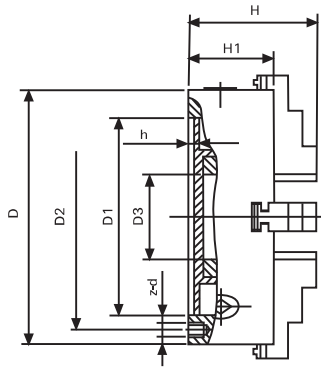
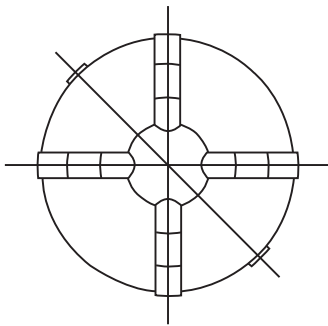
CİNSİ	MM	KUM	Birim Fiyatı
			EURO
LAMA	140 mm	120	<b>18.00</b>
BALIK SIRTİ	140 mm	120	<b>18.00</b>
YUVARLAK	140 mm	120	<b>18.00</b>
KARE	140 mm	120	<b>18.00</b>
ÜÇGEN	140 mm	120	<b>18.00</b>

### AUDIA ELMAS EĞELER (Takım)

CİNSİ	MM	KUM	Takım Fiyatı
			EURO
LAMA	140 mm	120	<b>90.00</b>
KARE	140 mm	120	
ÜÇGEN	140 mm	120	
YUVARLAK	140 mm	120	
BALIK SIRTİ	140 mm	120	

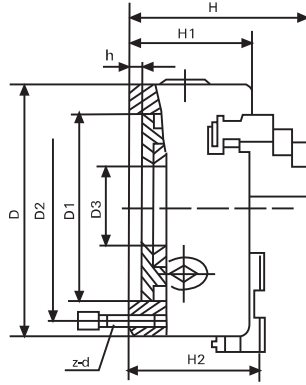
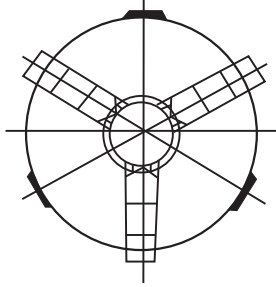
**İTALYAN, TORNA AYNASI ÇELİK AKSAMLII**

**KOD: ND113**
**3-AYAKLI**

Çap mm	D1	D2	D3	H	H1	h	z-d	Max. Devir	Birim Fiyatı Euro
80	56	67	16	66.5	50	4	3-M6	4000	86.25
100	70	83	22	74.5	55	3	3-M8	3500	95.00
125	95	108	30	84.5	58	4	3-M8	3000	97.50
160	125	140	45	94	65	5	6-M10	2500	143.75
200	160	176	65	109	75	5	6-M10	2000	188.75
250	200	224	80	120	80	5	6-M12	1600	262.50
315	260	286	100	156.5	90	6	6-M16	1200	462.50
400	330	362	130	173.5	100	6	6-M16	1000	660.00
500	420	458	210	205	115	6	6-M16	800	1255.00
630	545	586	252	220.5	135	7	6-M16	800	5330.00


**KOD: ND124**
**4-AYAKLI**

Çap mm	D1	D2	D3	H	H1	h	z-d	Max. Devir	Birim Fiyatı Euro
80	56	67	16	66.5	50	4	3-M6	4000	131.25
100	70	83	22	74.5	55	3	3-M8	3500	148.75
125	95	108	30	84.5	58	4	3-M8	3000	158.75
160	125	140	45	94	65	5	6-M10	2500	205.00
200	160	176	65	109	75	5	6-M10	2000	253.75
250	200	224	80	120	80	5	6-M12	1600	341.25
315	260	286	100	156.5	90	6	6-M16	1200	602.50
400	330	362	130	173.5	100	6	6-M16	1000	858.75
500	420	458	210	205	115	6	6-M16	800	1650.00
630	545	586	252	220.5	135	7	6-M16	800	7372.50

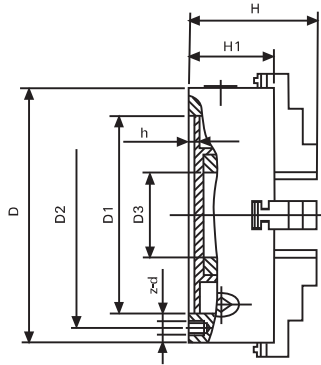
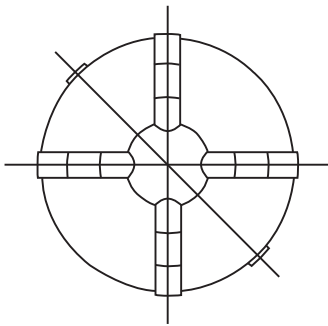
İTALYAN,  
TORNA AYNASI ÇELİK GÖVDELİ



KOD: SG113

3-AYAKLI

Çap mm	D1	D2	D3	H	H1	h	z-d	Max. Devir	Birim Fiyatı Euro
80	56	67	16	66.5	50	4	3-M6	5500	
100	70	83	22	74.5	55	3	3-M8	4700	
125	95	108	30	84.5	58	4	3-M8	4300	
160	125	140	45	94	65	5	6-M10	4000	363.75
200	160	176	65	109	75	5	6-M10	3500	496.25
250	200	224	80	120	80	5	6-M12	3000	627.50
315	260	286	100	156.5	90	6	6-M16	2300	971.25
400	330	362	130	173.5	100	6	6-M16	1800	1285.00
500	420	458	210	205	115	6	6-M16	1200	5252.50
630	545	586	252	220.5	135	7	6-M16	1200	10500.00



KOD: SG124

4-AYAKLI

Çap mm	D1	D2	D3	H	H1	h	z-d	Max. Devir	Birim Fiyatı Euro
80	56	67	16	66.5	50	4	3-M6	5500	316.25
100	70	83	22	74.5	55	3	3-M8	4700	343.75
125	95	108	30	84.5	58	4	3-M8	4300	363.75
160	125	140	45	94	65	5	6-M10	4000	496.25
200	160	176	65	109	75	5	6-M10	3500	598.75
250	200	224	80	120	80	5	6-M12	3000	825.00
315	260	286	100	156.5	90	6	6-M16	2300	1315.00
400	330	362	130	173.5	100	6	6-M16	1800	1911.25
500	420	458	210	205	115	6	6-M16	1200	6255.00
630	545	586	252	220.5	135	7	6-M16	1200	14787.50





İTALYAN,  
TORNA AYNASI YEDEK AYAKLARI

## TORNA AYNASI YEDEK AYAĞI DÜZ

Çap mm	Ayak Sayısı	AYAK TAKIMI	Birim Fiyatı Euro
80	3	DÜZ	31.85
100	3	DÜZ	34.45
125	3	DÜZ	36.40
160	3	DÜZ	42.25
200	3	DÜZ	57.20
250	3	DÜZ	72.80
315	3	DÜZ	110.50
400	3	DÜZ	166.40
500	3	DÜZ	373.10
200	4	DÜZ	87.10
250	4	DÜZ	107.90



## TORNA AYNASI YEDEK AYAĞI TERS

Çap mm	Ayak Sayısı	AYAK TAKIMI	Birim Fiyatı Euro
80	3	TERS	31.85
100	3	TERS	34.45
125	3	TERS	36.40
160	3	TERS	42.25
200	3	TERS	57.20
250	3	TERS	72.80
315	3	TERS	110.50
400	3	TERS	166.40
200	4	TERS	87.10
250	4	TERS	107.90



## TORNA AYNASI YEDEK AYAĞI YUMUŞAK

Çap mm	Ayak Sayısı	AYAK TAKIMI	Birim Fiyatı Euro
200	3	YUMUŞAK	57.20
250	3	YUMUŞAK	72.80
315	3	YUMUŞAK	109.20



İTALYAN,

## TORNA AYNASI YEDEKLER



ERMAK TEKNİK MALZEME



### TORNA AYNASI YEDEK SPİRAL

Çap mm		Birim Fiyatı Euro
80	SPİRAL	31.85
100	SPİRAL	37.05
125	SPİRAL	42.25
160	SPİRAL	50.70
200	SPİRAL	62.40
250	SPİRAL	81.90
315	SPİRAL	127.40
400	SPİRAL	172.90
500	SPİRAL	412.10



### TORNA AYNASI YEDEK ANAHTAR

Çap mm		Birim Fiyatı Euro
80	ANAHTAR	5.07
100	ANAHTAR	5.07
125	ANAHTAR	7.15
160	ANAHTAR	9.10
200	ANAHTAR	11.05
250	ANAHTAR	13.00
315	ANAHTAR	15.60
400	ANAHTAR	20.80
500	ANAHTAR	35.10



### TORNA AYNASI PİNYON

Çap mm		Birim Fiyatı Euro
80	PİNYON	5.07
100	PİNYON	9.10
125	PİNYON	10.01
160	PİNYON	11.44
200	PİNYON	12.74
250	PİNYON	15.60
315	PİNYON	18.20
400	PİNYON	26.00
500	PİNYON	45.50

İTALYAN,  
ELLE SIKMALI MANDRENLER



KOD	ÖLÇÜ mm	MAX. SALGI mm	Birim Fiyatı Euro
<b>3. Kalite</b>			
FCD3-B12	1-10	0.08	15.50
FCD3-B16	1-13	0.08	16.50
FCD3-B18	1-16	0.08	20.25
FCD3-B22	5-20	0.08	32.25
<b>2. Kalite</b>			
FCD2-B12	1-10	0.05	22.25
FCD2-B16	1-13	0.05	25.50
FCD2-B16	1-16	0.05	29.75
FCD2-B18	1-16	0.05	29.75
FCD2-B22	5-20	0.05	40.25
<b>1. Kalite</b>			
FCD1-B12	1-10	0.02	39.75
FCD1-B16	1-13	0.02	44.75
FCD1-B18	1-16	0.02	48.75
FCD1-B22	5-20	0.02	55.25



**DIN 6499**



**ERMAK TEKNİK MALZEME**

## FREZE PENSLERİ



SERTLİĞİ 44-49 HRC

TİP	Sıkma Kapasitesi mm	Hassasiyet mm	Birim Fiyatı Euro
ER16	1.0-0.5	0.02	6.87
ER16	2.0-1.0	0.02	6.87
ER16	3.0-2.0	0.02	6.87
ER16	4.0-3.0	0.02	6.87
ER16	5.0-4.0	0.02	6.87
ER16	6.0-5.0	0.02	6.87
ER16	7.0-6.0	0.02	6.87
ER16	8.0-7.0	0.02	6.87
ER16	9.0-8.0	0.02	6.87
ER16	10.0-9.0	0.02	6.87
ER25	2.0-1.0	0.02	7.78
ER25	3.0-2.0	0.02	7.78
ER25	4.0-3.0	0.02	7.78
ER25	5.0-4.0	0.02	7.78
ER25	6.0-5.0	0.02	7.78
ER25	7.0-6.0	0.02	7.78
ER25	8.0-7.0	0.02	7.78
ER25	9.0-8.0	0.02	7.78
ER25	10.0-9.0	0.02	7.78
ER25	11.0-10.0	0.02	7.78
ER25	12.0-11.0	0.02	7.78
ER25	13.0-12.0	0.02	7.78
ER25	14.0-13.0	0.02	7.78
ER25	15.0-14.0	0.02	7.78
ER25	16.0-15.0	0.02	7.78
ER32	3.0-2.0	0.02	8.23
ER32	4.0-3.0	0.02	8.23
ER32	5.0-4.0	0.02	8.23
ER32	6.0-5.0	0.02	8.23
ER32	7.0-6.0	0.02	8.23
ER32	8.0-7.0	0.02	8.23
ER32	9.0-8.0	0.02	8.23
ER32	10.0-9.0	0.02	8.23
ER32	11.0-10.0	0.02	8.23
ER32	12.0-11.0	0.02	8.23
ER32	13.0-12.0	0.02	8.23
ER32	14.0-13.0	0.02	8.23

TİP	Sıkma Kapasitesi mm	Hassasiyet mm	Birim Fiyatı Euro
ER32	15.0-14.0	0.02	8.23
ER32	16.0-15.0	0.02	8.23
ER32	17.0-16.0	0.02	8.23
ER32	18.0-17.0	0.02	8.23
ER32	19.0-18.0	0.02	8.23
ER32	20.0-19.0	0.02	8.23
ER40	4.0-3.0	0.02	10.52
ER40	5.0-4.0	0.02	10.52
ER40	6.0-5.0	0.02	10.52
ER40	7.0-6.0	0.02	10.52
ER40	8.0-7.0	0.02	10.52
ER40	9.0-8.0	0.02	10.52
ER40	10.0-9.0	0.02	10.52
ER40	11.0-10.0	0.02	10.52
ER40	12.0-11.0	0.02	10.52
ER40	13.0-12.0	0.02	10.52
ER40	14.0-13.0	0.02	10.52
ER40	15.0-14.0	0.02	10.52
ER40	16.0-15.0	0.02	10.52
ER40	17.0-16.0	0.02	10.52
ER40	18.0-17.0	0.02	10.52
ER40	19.0-18.0	0.02	10.52
ER40	20.0-19.0	0.02	10.52
ER40	21.0-20.0	0.02	10.52
ER40	22.0-21.0	0.02	10.52
ER40	23.0-22.0	0.02	10.52
ER40	24.0-23.0	0.02	10.52
ER40	25.0-24.0	0.02	10.52
ER40	26.0-25.0	0.02	10.52



Çapı D/mm	Göbek d/mm	Kalınlık t/mm	Diş Sayısı Z	Birim Fiyatı Euro
32	8	0.50	80	15.12
32	8	0.80	64	15.77
32	8	1.00	64	23.44
32	8	1.20	48	23.44
32	8	1.50	48	25.70
32	8	1.60	48	25.70
32	8	2.00	48	28.08
32	8	2.50	40	33.26
32	8	3.00	40	37.48
40	10	0.50	80	19.87
40	10	0.80	80	23.33
40	10	1.00	64	26.68
40	10	1.20	64	26.68
40	10	1.50	64	38.66
40	10	1.60	64	38.66
40	10	2.00	48	41.15
40	10	2.50	48	47.84
40	10	3.00	48	57.78
50	13	0.50	100	18.86
50	13	0.80	80	25.06
50	13	1.00	80	25.06
50	13	1.20	80	28.80
50	13	1.50	64	34.70
50	13	1.60	64	34.70
50	13	2.00	64	36.54
50	13	2.50	64	38.00
50	13	3.00	48	44.86
50	13	4.00	48	67.68
63	16	0.80	100	33.84
63	16	1.00	100	38.74
63	16	1.20	80	43.56
63	16	1.50	80	46.80
63	16	1.60	80	39.78
63	16	2.00	80	50.86
63	16	2.50	64	61.38
63	16	3.00	64	68.11
63	16	4.00	64	85.99

### ELMAS DAİRE TESTERE İTALYAN MALI



Çapı D/mm	Göbek d/mm	Kalınlık t/mm	Diş Sayısı Z	Birim Fiyatı Euro
80	22	0.80	128	52.56
80	22	1.00	100	57.60
80	22	1.20	100	73.08
80	22	1.50	100	74.95
80	22	1.60	100	74.95
80	22	2.00	80	87.86
80	22	2.50	80	96.94
80	22	3.00	80	121.44
80	22	4.00	64	151.90
80	22	5.00	64	185.98
100	22	0.80	128	74.84
100	22	1.00	128	70.00
100	22	1.20	128	93.90
100	22	1.50	128	109.13
100	22	1.60	128	118.78
100	22	2.00	128	110.54
100	22	2.50	100	135.00
100	22	3.00	100	150.00
100	22	4.00	100	196.02
100	22	5.00	80	232.15
125	22	0.80	160	114.98
125	22	1.00	160	114.98
125	22	1.50	128	153.53
125	22	1.60	128	153.53
125	22	2.00	128	191.59
125	22	2.50	100	226.54
125	22	3.00	100	266.98
125	22	4.00	100	322.76
125	22	5.00	80	360.89
160	30	1.00	160	230.40
160	32	1.20	160	246.53
160	32	1.60	160	372.28
160	32	2.00	160	408.92
160	32	2.50	160	497.81
160	32	3.00	128	472.32
160	32	4.00	100	610.56
160	32	5.00	100	754.56



D. f.	12 5	15 5	20 5	25 8	30 8	32 8	40 10	50 13	63 16	70 16	80 22	100 22	125 22	150 32	160 32	200 32	250 32
TABELLA DENTATURA FINE DIN 1837 THIN TEETH TABELLE ZÄHNUNG FEIN DIN 1837 DENTADURA FINA																	
0.20	48	64	80	80	100	100	128	128	160								
0.25	48	64	64	80	100	100	100	128	128	160	160						
0.30	48	64	64	80	80	80	100	128	128	160	160						
0.35	48	64	64	64	80	80	100	100	128	160	160						
0.40	48	64	64	64	80	80	100	100	128	128	160	160	160				
0.45	40	48	48	64	80	80	80	100	128	128	128	160	160				
0.50	40	48	48	64	80	80	80	100	128	128	128	160	160				
0.60	40	48	48	64	64	64	80	100	100	100	128	160	160				
0.70	40	48	48	48	64	64	80	80	100	100	128	128	160	150			
0.80	32	40	40	48	64	64	80	80	100	100	128	128	160	150	160		
0.90	32	40	40	48	64	64	64	80	100	100	100	128	160	150	160		
1.00	32	40	40	48	64	64	64	80	100	100	100	128	160	150	160		
1.10	32	40	40	48	48	48	64	80	80	80	100	128	128	150	160		
1.20	32	40	40	48	48	48	64	80	80	80	100	128	128	150	160	200	
1.30	32	40	40	40	48	48	64	64	80	80	100	100	128	150	160	200	
1.40	32	40	40	40	48	48	64	64	80	80	100	100	128	150	160	200	
1.50	32	40	40	40	48	48	64	64	80	80	100	100	128	150	160	200	
1.60	32	40	40	40	48	48	64	64	80	80	100	100	128	150	160	160	
1.70	24	28	32	40	48	48	48	64	80	80	80	100	128	128	160	160	
1.80	24	28	32	40	48	48	48	64	80	80	80	100	128	128	128	160	
1.90	24	28	32	40	48	48	48	64	80	80	80	100	128	128	128	160	
2.00	24	28	32	40	48	48	48	64	80	80	80	100	128	128	128	160	200
2.50	24	28	32	40	40	40	48	64	80	64	80	100	100	128	128	160	160
3.00	24	28	32	32	40	40	48	48	64	64	80	100	100	128	128	128	160
4.00	20	24	24	32	40	40	40	48	64	64	64	80	100	100	100	128	160
5.00	20	24	24	32	32	32	40	48	48	64	64	80	80	100	100	128	128
6.00	20	24	24	32	32	32	40	40	48	64	64	64	80	100	100	128	128

D. f.	12 5	15 5	20 5	25 8	30 8	32 8	40 10	50 13	63 16	70 16	80 22	100 22	125 22	150 32	160 32	200 32	250 32
TABELLA DENTATURA LARGA DIN 1838 LARGE TEETH TABELLE ZÄHNUNG GROB DIN 1838 DENTADURA ANCHA																	
0.20	16	24	32	32	32	32	48	48	64								
0.25	16	24	32	32	32	32	48	48	64	64	64						
0.30	16	24	32	32	32	32	48	48	64	64	64						
0.35	16	24	32	32	32	32	48	48	64	64	64						
0.40	16	24	32	32	32	32	48	48	64	64	64	80					
0.45	16	20	24	24	24	24	40	48	64	64	64	80					
0.50	16	20	24	24	24	24	40	48	64	64	64	80	80				
0.60	16	20	24	24	24	24	40	48	48	48	64	80	80				
0.70	16	20	24	24	24	24	40	40	48	48	64	64	80	80			
0.80	16	20	24	24	24	24	40	40	48	48	64	64	80	80	80		
0.90	16	16	20	20	20	24	32	40	48	48	64	64	80	80	80		
1.00	16	16	20	20	20	24	32	40	48	48	64	64	80	80	80		
1.10	16	16	20	20	20	24	32	40	40	40	48	64	64	80	80		
1.20	16	16	20	20	20	24	32	40	40	40	48	64	64	80	80	100	
1.30	16	16	20	20	20	20	32	32	40	40	48	48	64	80	80	100	
1.40	12	16	20	20	20	20	32	32	40	40	48	48	64	80	80	80	
1.50	12	16	20	20	20	20	32	32	40	40	48	48	64	80	80	80	
1.60	12	16	20	20	20	20	32	32	40	40	48	48	64	64	80	80	
1.70	12	16	20	20	20	20	32	32	40	40	40	48	64	64	80	80	
1.80	12	12	16	16	20	20	24	32	40	40	40	48	64	64	80	80	
1.90	12	12	16	16	20	20	24	32	40	40	40	48	64	64	80	80	
2.00	12	12	16	16	20	20	24	32	40	40	40	48	64	64	64	80	100
2.50	12	12	16	16	20	20	24	32	32	32	40	48	48	64	64	80	80
3.00	12	12	16	16	18	20	24	24	32	32	40	40	48	64	64	64	80
4.00	12	12	16	16	18	18	20	24	32	32	32	40	48	64	64	64	80
5.00	12	12	16	16	18	18	20	24	24	24	32	40	40	48	64	64	80
6.00	12	12	16	16	18	18	20	20	24	24	32	32	40	48	48	64	80

DENTATURE MEDIE - EXTRALARGHE - ED EXTRAFINI A RICHIESTA - MEDIUM - EXTRALARGE AND EXTRATHIN TEETH BY REQUEST  
 MITTLERE ZÄHNUNG - EXTRAGROB - UND EXTRAFEIN AUF ANFRAGE  
 DENTADURAS MEDIANAS - EXTRAANCHAS Y EXTRAFINAS A PETICIÓN DE LOS INTERESADOS.





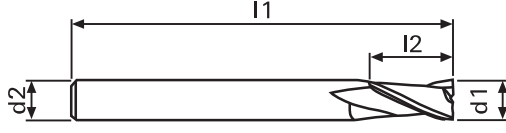
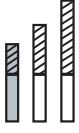
ERMAK TEKNİK MALZEME

Rime  
UTENSILERIA

## ELMAS PARMAK FREZELER



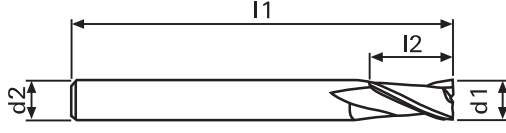
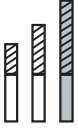
KISA BOY ELMAS PARMAK FREZE



ÖLÇÜ						K Euro	TICN/TIALN Euro
CODE	d1 mm h10	l2 mm	l1 mm	d2 mm h6	Z		
HM 1/01	1	3	38	1	2	16,22	21,85
HM 1/02	1,5	4	38	1,5	2	15,14	20,66
HM 1/03	2	7	40	2	2	12,23	17,85
HM 1/04	2,5	8	40	2,5	2	12,23	17,85
HM 1/05	3	8	40	3	2	12,23	17,85
HM 1/06	3,5	10	40	3,5	2	13,96	19,58
HM 1/07	4	10	40	4	2	13,96	19,58
HM 1/08	4,5	12	50	4,5	2	16,22	23,59
HM 1/09	5	12	50	5	2	16,22	23,59
HM 1/10	5,5	14	50	5,5	2	18,61	25,85
HM 1/11	6	14	50	6	2	18,61	25,85
HM 1/12	6,5	14	60	6,5	2	24,45	34,51
HM 1/13	7	14	60	7	2	24,45	34,51
HM 1/14	7,5	16	63	7,5	2	29,10	39,16
HM 1/15	8	16	63	8	2	29,10	39,16
HM 1/16	8,5	18	63	8,5	2	34,83	46,62
HM 1/17	9	18	63	9	2	34,83	46,62
HM 1/18	9,5	20	72	9,5	2	45,32	57,00
HM 1/19	10	20	72	10	2	45,32	57,00
HM 1/20	10,5	20	72	10,5	2	53,44	66,20
HM 1/21	11	20	72	11	2	55,16	67,93
HM 1/22	12	22	83	12	2	59,90	75,50
HM 1/23	13	25	83	13	2	76,69	95,40
HM 1/24	14	25	83	14	2	83,62	102,87
HM 1/25	15	26	92	15	2	101,67	121,47
HM 1/26	16	26	92	16	2	108,06	127,74
HM 1/27	17	26	92	17	2	1373,16	159,00
HM 1/28	18	26	92	18	2	142,34	166,46
HM 1/29	19	32	100	19	2	165,60	190,80
HM 1/30	20	32	104	20	2	173,17	199,45
HM 1/31	22	38	104	22	2	296,25	341,14
HM 1/32	25	45	120	25	2	429,94	474,07

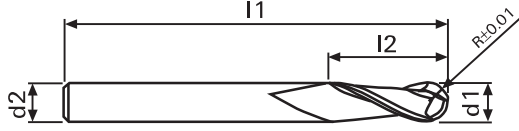
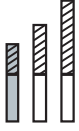


ÇOK UZUN BOY ELMAS PARMAK FREZE



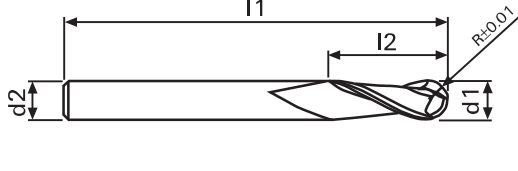
ÖLÇÜ						K Euro	TICN/TIALN Euro
CODE	d1 mm h10	l2 mm	l1 mm	d2 mm h6	Z		
HM 3/01	3	30	70	3	2	23,80	33,32
HM 3/02	4	36	75	4	2	27,26	37,97
HM 3/03	5	40	80	5	2	33,64	46,08
HM 3/04	6	40	80	6	2	37,75	50,09
HM 3/05	8	50	100	8	2	54,62	69,01
HM 3/06	10	50	100	10	2	71,50	92,05
HM 3/07	12	70	150	12	2	115,09	145,59
HM 3/09	14	75	150	14	2	152,18	186,15
HM 3/10	16	75	150	16	2	214,92	252,13
HM 3/11	18	75	150	18	2	244,02	283,28
HM 3/12	20	75	150	20	2	293,33	335,30

## KISA BOY KÜRE ELMAS PARMAK FREZE



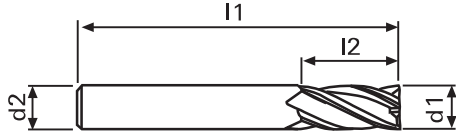
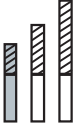
ÖLÇÜ						K Euro	TICN/TIALN Euro
CODE	d1 mm h10	l2 mm	l1 mm	d2 mm h6	Z		
HM 4/01	1	3	38	1	2	23,80	29,32
HM 4/02	1,5	4	38	1,5	2	22,61	28,24
HM 4/03	2	7	40	2	2	16,22	21,85
HM 4/04	2,5	8	40	2,5	2	17,42	23,05
HM 4/05	3	8	40	3	2	17,42	23,05
HM 4/06	3,5	10	40	3,5	2	19,80	25,31
HM 4/07	4	10	40	4	2	19,80	25,31
HM 4/08	4,5	12	50	4,5	2	23,80	31,04
HM 4/09	5	12	50	5	2	23,80	31,04
HM 4/10	5,5	14	50	5,5	2	27,26	34,51
HM 4/11	6	14	50	6	2	27,26	34,51
HM 4/12	6,5	14	60	6,5	2	34,83	44,89
HM 4/13	7	14	60	7	2	34,83	44,89
HM 4/14	7,5	16	63	7,5	2	38,94	48,35
HM 4/15	8	16	63	8	2	38,94	48,35
HM 4/16	8,5	18	63	8,5	2	45,86	57,00
HM 4/17	9	18	63	9	2	45,86	57,00
HM 4/18	9,5	20	72	9,5	2	55,16	66,74
HM 4/19	10	20	72	10	2	55,16	66,74
HM 4/20	10,5	20	72	10,5	2	63,93	76,59
HM 4/21	11	20	72	11	2	67,39	79,39
HM 4/22	12	22	83	12	2	74,90	90,50
HM 4/23	13	25	83	13	2	95,84	115,63
HM 4/24	14	25	83	14	2	107,52	127,20
HM 4/25	15	26	92	15	2	127,85	147,43
HM 4/26	16	26	92	16	2	139,42	159,00
HM 4/27	17	26	92	17	2	183,01	205,30
HM 4/28	18	26	92	18	2	183,01	205,30
HM 4/29	19	32	100	19	2	213,83	239,91
HM 4/30	20	32	104	20	2	214,92	241,09

## ÇOK UZUN BOY ELMAS PARMAK FREZE



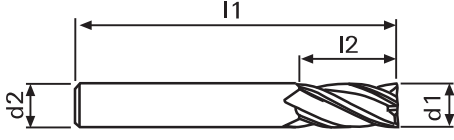
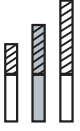
ÖLÇÜ						K Euro	TICN/TIALN Euro
CODE	d1 mm h10	l2 mm	l1 mm	d2 mm h6	Z		
HM 5/00	2	18	52	2	2	24,88	31,58
HM 5/01	3	20	55	3	2	23,25	29,96
HM 5/02	4	20	60	4	2	27,26	34,51
HM 5/03	5	20	60	5	2	31,91	38,51
HM 5/04	6	25	65	6	2	35,48	44,35
HM 5/05	8	32	80	8	2	48,25	59,28
HM 5/06	10	32	80	10	2	72,04	86,32
HM 5/07	12	50	100	12	2	94,10	111,62
HM 5/08	14	55	115	14	2	142,34	164,74
HM 5/09	16	55	120	16	2	180,09	204,10
HM 5/10	18	55	120	18	2	235,25	258,40
HM 5/11	20	55	120	20	2	281,76	308,15

## KISA BOY ELMAS PARMAK FREZE



ÖLÇÜ						K Euro	TICN/TIALN Euro
CODE	d1 mm h10	l2 mm	l1 mm	d2 mm h6	Z		
HM 19/01	2	7	40	2	4	12,23	17,85
HM 19/02	2,5	10	40	2,5	4	12,23	17,85
HM 19/03	3	10	40	3	4	12,23	17,85
HM 19/04	3,5	11	40	3,5	4	13,96	19,58
HM 19/05	4	11	40	4	4	13,96	19,58
HM 19/06	4,5	13	50	4,5	4	16,22	23,59
HM 19/07	5	13	50	5	4	16,22	23,59
HM 19/08	5,5	16	50	5,5	4	18,61	25,85
HM 19/09	6	16	50	6	4	18,61	25,85
HM 19/10	6,5	16	60	6,5	4	24,45	34,51
HM 19/11	7	20	60	7	4	24,45	34,51
HM 19/12	7,5	20	63	7,5	4	29,10	39,16
HM 19/13	8	20	63	8	4	29,10	39,16
HM 19/14	8,5	20	63	8,5	4	34,83	46,62
HM 19/15	9	20	63	9	4	34,83	46,62
HM 19/16	9,5	22	72	9,5	4	45,32	57,00
HM 19/17	10	22	72	10	4	45,32	57,00
HM 19/18	10,5	22	72	10,5	4	53,44	66,20
HM 19/19	11	22	72	11	4	55,16	67,93
HM 19/20	12	26	83	12	4	59,90	75,50
HM 19/21	13	26	83	13	4	76,69	95,40
HM 19/22	14	28	83	14	4	83,62	102,87
HM 19/23	15	32	92	15	4	101,67	121,47
HM 19/24	16	32	92	16	4	108,06	127,74
HM 19/25	17	32	92	17	4	137,16	159,00
HM 19/26	18	32	92	18	4	142,34	166,46
HM 19/27	19	36	100	19	4	165,60	190,80
HM 19/28	20	36	104	20	4	173,17	199,45
HM 19/29	22	38	104	22	4	296,25	341,14
HM 19/30	25	45	120	25	4	429,94	474,07

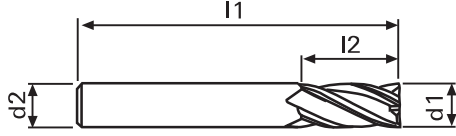
UZUN BOY ELMAS PARMAK FREZE



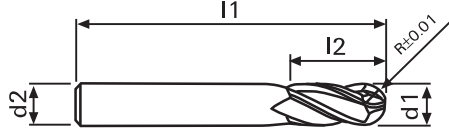
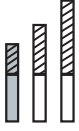
ÖLÇÜ						K Euro	TICN/TIALN Euro
CODE	d1 mm h10	l2 mm	l1 mm	d2 mm h6	Z		
HM 20/00	2	18	52	2	4	18,18	24,88
HM 20/01	3	20	55	3	4	16,22	23,05
HM 20/02	4	20	60	4	4	20,34	27,58
HM 20/03	5	20	60	5	4	22,07	29,32
HM 20/04	6	25	65	6	4	24,45	32,78
HM 20/05	7	30	75	7	4	32,56	41,97
HM 20/06	8	32	80	8	4	37,75	48,89
HM 20/07	9	32	80	9	4	46,51	60,47
HM 20/08	10	32	80	10	4	55,16	59,01
HM 20/09	11	50	100	11	4	71,50	89,23
HM 20/10	12	50	100	12	4	78,42	96,05
HM 20/11	13	50	100	13	4	104,59	124,28
HM 20/12	14	55	115	14	4	113,90	135,86
HM 20/13	15	55	120	15	4	145,27	168,84
HM 20/14	16	55	120	16	4	151,10	174,57
HM 20/15	17	55	120	17	4	180,99	203,56
HM 20/16	18	55	120	18	4	183,01	206,38
HM 20/17	19	55	120	19	4	223,68	250,29
HM 20/18	20	55	120	20	4	226,60	253,21
HM 20/19	22	60	130	22	4	389,27	436,54
HM 20/20	25	75	150	25	4	511,27	577,03



## ÇOK UZUN BOY ELMAS PARMAK FREZE



ÖLÇÜ						K Euro	TICN/TIALN Euro
CODE	d1 mm h10	I2 mm	I1 mm	d2 mm h6	Z		
HM 21/01	3	30	70	3	4	23,80	33,32
HM 21/02	4	40	75	4	4	27,26	37,97
HM 21/03	5	40	80	5	4	33,64	46,08
HM 21/04	6	45	80	6	4	37,75	50,09
HM 21/05	8	50	100	8	4	54,62	69,01
HM 21/06	10	50	100	10	4	71,50	92,05
HM 21/07	12	70	150	12	4	115,09	145,59
HM 21/08	14	75	150	14	4	152,18	186,15
HM 21/09	16	75	150	16	4	214,92	252,13
HM 21/10	18	75	150	18	4	244,02	283,28
HM 21/11	20	75	150	20	4	293,33	335,30

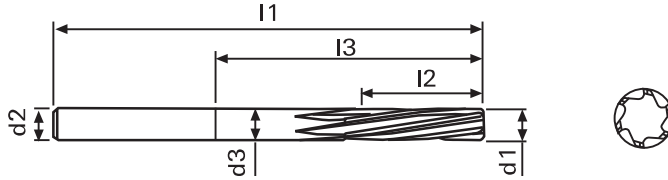
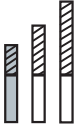
**KISA KÜRE ELMAS PARMAK FREZE**


ÖLÇÜ						K Euro	TICN/TIALN Euro
CODE	d1 mm h10	I2 mm	I1 mm	d2 mm h6	Z		
HM 22/01	2	7	40	2	4	16,22	21,85
HM 22/02	2,5	10	40	2,5	4	17,42	23,05
HM 22/03	3	10	40	3	4	17,42	23,05
HM 22/04	3,5	11	40	3,5	4	19,80	25,31
HM 22/05	4	11	40	4	4	19,80	25,31
HM 22/06	4,5	13	50	4,5	4	23,80	31,04
HM 22/07	5	13	50	5	4	23,80	31,04
HM 22/08	5,5	16	50	5,5	4	27,26	34,51
HM 22/09	6	16	50	6	4	27,26	34,51
HM 22/10	6,5	16	60	6,5	4	34,83	44,89
HM 22/11	7	16	60	7	4	34,83	44,89
HM 22/12	7,5	19	63	7,5	4	38,94	48,35
HM 22/13	8	19	63	8	4	38,94	48,35
HM 22/14	8,5	19	63	8,5	4	45,86	57,00
HM 22/15	9	19	63	9	4	45,86	57,00
HM 22/16	9,5	22	72	9,5	4	55,16	66,74
HM 22/17	10	22	72	10	4	55,16	66,74
HM 22/18	10,5	22	72	10,5	4	63,93	76,59
HM 22/19	11	22	72	11	4	67,39	79,39
HM 22/20	12	26	83	12	4	74,90	90,50
HM 22/21	13	26	83	13	4	95,84	115,63
HM 22/22	14	28	83	14	4	107,52	127,20
HM 22/23	15	32	92	15	4	127,85	147,43
HM 22/24	16	32	92	16	4	139,42	159,00
HM 22/25	17	32	92	17	4	183,01	205,30
HM 22/26	18	32	92	18	4	183,01	205,30
HM 19/27	19	36	100	19	4	213,83	239,91
HM 19/28	20	36	104	20	4	214,92	241,09





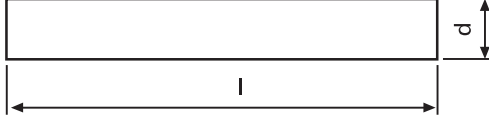


**ELMAS MAKİNA RAYBASI**


ÖLÇÜ								K Euro	TIN Euro
CODE	d1 mm h7	l2 mm	l1 mm	l3 mm	d2 mm h7	d3 mm	Z		
HM 29/01	2	11	49	24	2	1,9	5	<b>17,70</b>	<b>25,70</b>
HM 29/02	2,5	14	57	29	2,5	2,4	5	<b>18,80</b>	<b>26,80</b>
HM 29/03	3	15	61	33	3	2,9	5	<b>19,40</b>	<b>27,40</b>
HM 29/04	3,5	18	70	40	3,5	3,4	5	<b>22,20</b>	<b>30,20</b>
HM 29/05	4	19	75	43	4	3,9	5	<b>25,20</b>	<b>33,20</b>
HM 29/06	4,5	21	80	45	4,5	4,4	5	<b>27,80</b>	<b>35,80</b>
HM 29/07	5	23	86	51	5	4,9	5	<b>31,40</b>	<b>39,40</b>
HM 29/08	5,5	26	93	53	5,5	5,4	6	<b>37,00</b>	<b>45,00</b>
HM 29/09	6	26	93	55	6	5,9	6	<b>38,00</b>	<b>46,00</b>
HM 29/10	6,5	28	101	61	6,5	6,4	6	<b>45,80</b>	<b>55,80</b>
HM 29/11	7	31	106	66	7	6,85	6	<b>48,40</b>	<b>58,40</b>
HM 29/12	8	33	117	72	8	7,85	6	<b>57,30</b>	<b>67,30</b>
HM 29/13	9	36	125	75	9	8,85	6	<b>63,30</b>	<b>75,80</b>
HM 29/14	10	38	133	83	10	9,85	6	<b>87,30</b>	<b>99,80</b>
HM 29/15	11	41	142	90	11	10,85	7	<b>107,00</b>	<b>122,00</b>
HM 29/16	12	44	151	96	12	11,85	7	<b>125,50</b>	<b>140,50</b>
HM 29/17	13	44	151	96	13	12,85	7	<b>138,00</b>	<b>155,00</b>
HM 29/18	14	47	160	98	14	13,85	7	<b>176,90</b>	<b>194,00</b>
HM 29/19	15	50	160	100	15	14,85	7	<b>203,00</b>	<b>226,00</b>
HM 29/20	16	52	170	107	16	15,85	7	<b>230,00</b>	<b>253,00</b>

## ELMAS YUVARLAK PANTOGRAF KALEMİ

Micro  
Grain



ÖLÇÜ			K Euro
CODE	dh7 mm	l mm	
HM 31/01	2	100	6,80
HM 31/02	2	150	9,40
HM 31/03	3	100	8,70
HM 31/04	3	150	13,10
HM 31/05	4	100	12,40
HM 31/06	4	150	18,60
HM 31/07	5	100	16,20
HM 31/08	5	150	24,90
HM 31/09	6	100	22,30
HM 31/10	6	150	33,60
HM 31/11	7	100	28,00
HM 31/12	7	150	43,50
HM 31/13	8	100	34,10
HM 31/14	8	150	52,90
HM 31/15	9	100	38,50
HM 31/16	9	150	59,00
HM 31/17	10	100	44,80
HM 31/18	10	150	68,40
HM 31/19	11	100	52,90
HM 31/20	11	150	79,60
HM 31/21	12	100	57,20
HM 31/22	12	150	87,00
HM 31/23	13	100	68,40
HM 31/24	13	150	102,50
HM 31/25	14	100	77,70
HM 31/26	14	150	118,20
HM 31/27	15	100	87,00
HM 31/28	15	150	135,50
HM 31/29	16	100	99,40
HM 31/30	16	150	147,30
HM 31/31	17	100	111,90
HM 31/32	17	150	167,80
HM 31/33	18	100	118,20
HM 31/34	18	150	180,30
HM 31/35	19	100	136,80
HM 31/36	19	150	205,10
HM 31/37	20	100	146,80
HM 31/38	20	150	220,70
HM 31/39	22	100	205,10
HM 31/40	22	150	304,60
HM 31/41	25	100	257,40
HM 31/42	25	150	385,40

## TÜRKİYE TEMSİLCİSİ OLDUĞUMUZ ÜRÜNLERİN MARKALARINA GÖRE İSKONTO CETVELİ

GRUP Sıra No.		İSKONTO %
1	<b>FİAS</b> TORNA AYNASI ve ELLE SIKMALI MANDRENLER <b>AFAR</b> ELMAS DAİRE TESTERELER <b>WİSDOM</b> TAŞ DÜZELTME ELMASLARI, DIAMOND TAŞLAR, PCD ve PCBN UÇLAR <b>AUDIA</b> TAŞ DÜZELTME ELMASLARI <b>RİME</b> PARMAK FREZELER ve ELMAS RAYBALAR	
2	<b>MİRANDA</b> MATKAP UÇLARI, PUNTA MATKAPLARI, PARMAK FREZELER ve RAYBALAR	
3	<b>TECLOCK</b> ÖLÇÜ ALETLERİ <b>KORİ</b> MAKİNA SAYAÇLARI <b>TAKACHİHO</b> SİLİNDİR KOMPARATÖRLERİ <b>FANAR</b> KILAVUZ ve PAFTALAR <b>TEC</b> KALIPÇI FREZELER	
4	<b>KANON</b> ÖLÇÜ ALETLERİ	
5	<b>WEGLER</b> ELMAS PARMAK FREZELER ve ELMAS MATKAP UÇLARI	



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