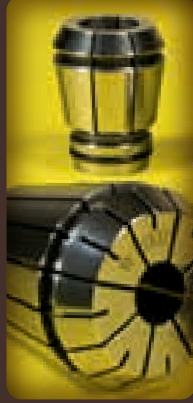


2023



TOOLHOLDERS AND COLLETS  
TAKIM TUTUCULAR VE PENSLER





**59 years of experience...**  
*59 yıllık tecrübe...*



**TOOLHOLDERS & COLLETS**  
*TAKIM TUTUCULAR & PENSLER*

**FERTE** is owned by  **gürkan**

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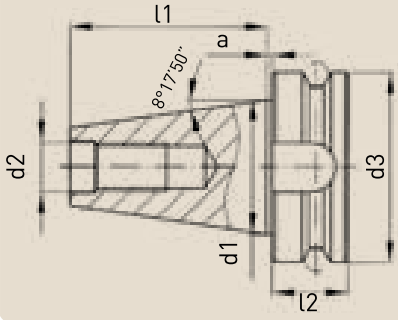
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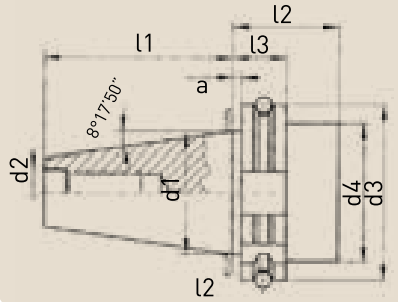
**TOOLHOLDERS**  
*TAKIM TUTUCULAR*

## TOOLHOLDERS TAPER STANDARDS TAKIM TUTUCU KONİK STANDARTLARI



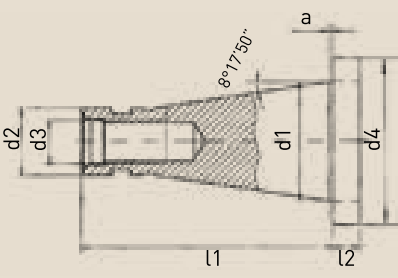
### MAS 403 BT (JIS B 6339)

TAPER	a +/- 0.2	d1	d2	d3	l2	l1 +/- 0.2
BT30	2	31.75	M12	46	20	48.4
BT40	2	44.45	M16	63	25	65.4
BT50	3	69.85	M24	100	35	101.8



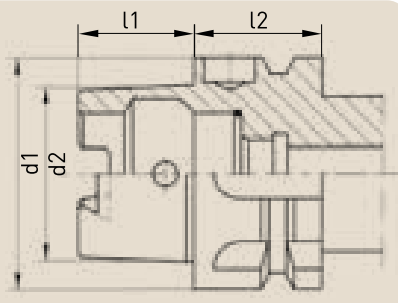
### DIN 69871 A (ISO 7388-1)

TAPER	a +/- 0.1	d1	d2	d3 0/- 0.1	d4 max.	l2 min.	l3 0/- 0.1	l1 0/- 0.3
DIN 30	3.2	31.75	M12	50.0	44	35	19.1	47.8
DIN 40	3.2	44.45	M16	63.55	50	35	19.1	68.4
DIN 50	3.2	69.85	M24	97.5	80	35	19.1	101.75



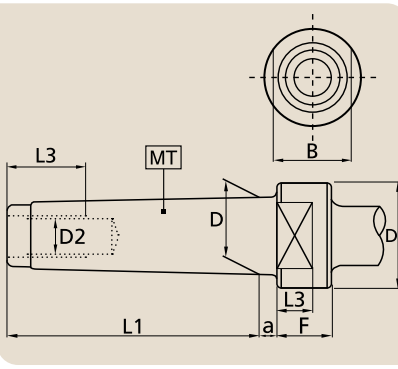
### DIN 2080 (ISO)

TAPER	a +/- 0.2	d1	d2 a10	d3	d4 0/-0.4	l2 +/- 0.15	l1
ISO 30	1.6	31.75	17.4	M12	50	8	68.4
ISO 40	1.6	44.45	25.3	M16	63	10	93.4
ISO 50	3.2	69.85	39.6	M24	97.5	12	126.8



### HSK DIN69893-1 A (ISO 12164-1)

TAPER	d1	d2	l1	l2
HSK 50	50	38	25	26
HSK 63	63	48	32	26
HSK 80	80	60	40	26



### DIN228-A MORSE TAPER MT

MT	L1	L2	L3	D	D1	D2	F	B	a
1	53,5	16			12,065	M6			3,5
2	64,0	24			17,780	M10			5,0
3	81,0	24	12	36	23,825	M12	18	24	5,0
4	102,5	32	15	43	31,267	M16	23	32	6,5
5	129,5	40	18	60	44,399	M20	28	45	6,5
6	182,0	47	25	84	63,348	M24	39	65	8,0

BT&DIN Tapers are according to AT3 specifications  
On the collet chucks the run out between outside taper to the taper of collet cavity is max. 5µ.  
Tutuculardaki konik hassasiyeti AT3 standardındadır.  
Pens tutucularındaki pens yuvası ile dış konik arası salgı max. 5µ.

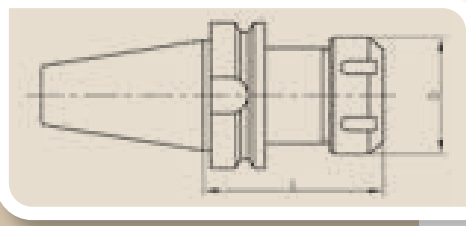


**JIS B 6339 (MAS 403 BT)**

**TOOLHOLDERS**  
*TAKIM TUTUCULARI*



## ER COLLET CHUCKS ER PENS BAŞLIKLARI



### JIS B 6339 (MAS403 BT) AD&B Balanced G6.3

CODE / KOD BT 30	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
BT30 ER11 100M	100	16	ER11 Ø1-8mm	38.00
BT30 ER16	60	28	ER16 Ø1-12mm	29.00
BT30 ER16 100	100	28	ER16 Ø1-12mm	38.00
BT30 ER25	60	42	ER25 Ø1-20mm	29.00
BT30 ER32	60	50	ER32 Ø1-25mm	29.00
BT30 ER32 100	100	50	ER32 Ø1-25mm	38.00
BT30 ER40	70	63	ER40 Ø1-32mm	40.00

CODE / KOD BT 40	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
BT40 ER11 100M	100	16	ER11 Ø1-8mm	38.00
BT40 ER16	60	28	ER16 Ø1-12mm	28.00
BT40 ER16 100	100	28	ER16 Ø1-12mm	37.00
BT40 ER16 130M	130	22	ER16 Ø1-12mm	45.00
BT40 ER16 160	160	28	ER16 Ø1-12mm	58.00
BT40 ER20	70	34	ER20 Ø2-16mm	28.00
BT40 ER20 100	100	34	ER20 Ø2-16mm	37.00
BT40 ER25	70	42	ER25 Ø1-20mm	28.00
BT40 ER25 100	100	42	ER25 Ø1-20mm	37.00
BT40 ER25 160	160	42	ER25 Ø1-20mm	59.00
BT40 ER32	70	50	ER32 Ø1-25mm	28.00
BT40 ER32 100	100	50	ER32 Ø1-25mm	37.00
BT40 ER32 160	160	50	ER32 Ø1-25mm	61.00
BT40 ER40	70	63	ER40 Ø1-32mm	30.00
BT40 ER40 100	100	63	ER40 Ø1-32mm	39.00
BT40 ER40 160	160	63	ER40 Ø1-32mm	63.00

CODE / KOD BT 50	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
BT50 ER16	100	28	ER16 Ø1-12mm	58.00
BT50 ER16 160	160	28	ER16 Ø1-12mm	77.00
BT50 ER25	100	42	ER25 Ø1-20mm	58.00
BT50 ER25 160	160	42	ER25 Ø1-20mm	77.00
BT50 ER32	100	50	ER32 Ø1-25mm	58.00
BT50 ER32 160	160	50	ER32 Ø1-25mm	77.00
BT50 ER40	100	63	ER40 Ø1-32mm	60.00
BT50 ER40 160	160	63	ER40 Ø1-32mm	79.00
BT50 ER50	100	78	ER50 Ø6-40mm	86.00

### BT40 OZ25 DIN6388 Collet Chuck / Pens Başlığı

CODE / KOD BT 40	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
BT40 OZ25	70	60	OZ25 Ø2-32mm	42.00

## FACE MILL ADAPTORS

### ALINDAN SIKMALI FREZE TUTUCULAR

#### JIS B 6339 (MAS403 BT) AD&B Balanced G6.3

CODE / KOD BT 30	D	D1	L	EURO
BT30 FM16	16	38	40	31.00
BT30 FM22	22	48	40	31.00
BT30 FM27	27	58	40	31.00
BT30 FM32	27	78	50	33.00

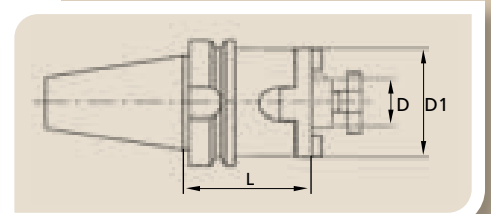
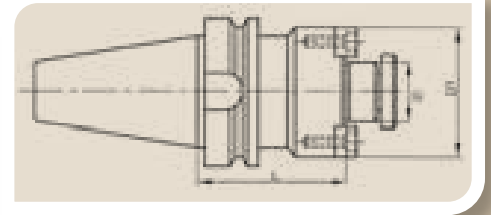
CODE / KOD BT 40	D	D1	L	EURO
BT40 FM16	16	38	40	31.00
BT40 FM16 100	16	38	100	41.00
BT40 FM16 160	16	38	160	62.00
BT40 FM22	22	48	45	31.00
BT40 FM22 100	22	48	100	41.00
BT40 FM22 160	22	48	160	62.00
BT40 FM27	27	58	45	32.00
BT40 FM27 100	27	58	100	42.00
BT40 FM27 160	27	58	160	63.00
BT40 FM32	32	78	50	34.00
BT40 FM32 100	32	78	100	44.00
BT40 FM32 160	32	78	160	65.00
BT40 FM40	40	88	55	37.00
BT40 FM40 100	40	88	100	47.00

CODE / KOD BT 50	D	D1	L	EURO
BT50 FM16	16	38	55	55.00
BT50 FM16 100	16	38	100	65.00
BT50 FM22	22	48	55	55.00
BT50 FM22 100	22	48	100	65.00
BT50 FM27	27	58	55	56.00
BT50 FM27 100	27	58	100	66.00
BT50 FM32	32	78	55	58.00
BT50 FM32 100	32	78	100	68.00
BT50 FM40	40	88	55	60.00
BT50 FM40 100	40	88	100	70.00

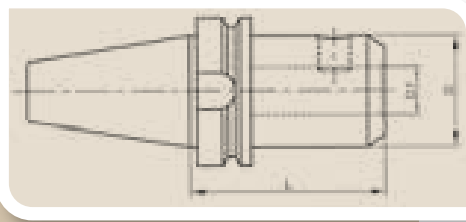
## COMBI SHELL MILL ADAPTORS (with drive ring and key)

### KOMBİNE FREZE TUTUCULAR (İstavroz pul ve kamalı)

CODE / KOD BT 40	D	D1	L	EURO
BT40 CM16	16	32	55	35.00
BT40 CM22	22	40	55	35.00
BT40 CM27	27	48	55	36.00
BT40 CM32	32	58	60	38.00
BT40 CM40	40	70	60	41.00



## WELDON ADAPTORS WELDON TUTUCULAR



### JIS B 6339 (MAS403 BT) AD&B Balanced G6.3

CODE / KOD BT 30	D1	D	L	EURO
BT30 W06	6	25	50	27.00
BT30 W08	8	28	50	27.00
BT30 W10	10	35	50	27.00
BT30 W12	12	42	50	27.00
BT30 W16	16	48	63	27.00
BT30 W20	20	52	63	28.00

CODE / KOD BT 40	D1	D	L	EURO
BT40 W06	6	25	50	27.00
BT40 W06 100	6	25	100	34.00
BT40 W08	8	28	50	27.00
BT40 W08 100	8	28	100	34.00
BT40 W10	10	35	63	27.00
BT40 W10 100	10	35	100	34.00
BT40 W12	12	42	63	27.00
BT40 W12 100	12	42	100	34.00
BT40 W14	14	44	63	27.00
BT40 W16	16	48	63	27.00
BT40 W16 100	16	48	100	34.00
BT40 W18	18	50	63	27.00
BT40 W20	20	52	63	27.00
BT40 W20 100	20	52	100	34.00
BT40 W25	25	65	90	32.00
BT40 W32	32	72	100	36.00
BT40 W40	40	80	120	41.00

CODE / KOD BT 50	D1	D	L	EURO
BT50 W06	6	25	63	49.00
BT50 W08	8	28	63	49.00
BT50 W10	10	35	63	49.00
BT50 W12	12	42	80	50.00
BT50 W14	14	44	80	50.00
BT50 W16	16	48	80	50.00
BT50 W18	18	50	80	50.00
BT50 W20	20	52	80	50.00
BT50 W25	25	65	100	54.00
BT50 W32	32	72	105	56.00
BT50 W40	40	80	120	60.00

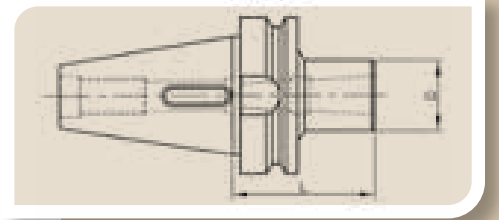
## MORSE TAPER ADAPTORS MORS KONİK TUTUCUSU

### JIS B 6339 (MAS403 BT) Balanced G6.3

CODE / KOD BT 40	MT	D	L	EURO
BT40 MT1	1	25	50	27.00
BT40 MT2	2	32	50	27.00
BT40 MT2 DB *	2	32	50	29.00
BT40 MT3	3	40	70	29.00
BT40 MT3 DB *	3	40	70	31.00
BT40 MT4	4	48	95	31.00
BT40 MT4 DB *	4	48	95	33.00

\* DB types are drawbar type for holding morse taper shank with screwed end, all others are for tang type morse tapers.

\* DB tipi çekirme vidalı mors konik saplar içindir, tüm diğerleri çakmalı tip mors konik saplar içindir.

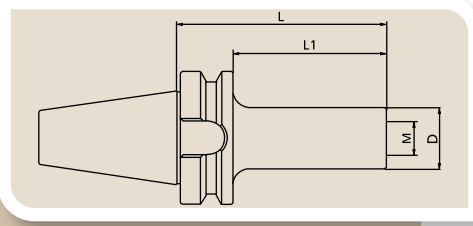


CODE / KOD BT 50	MT	D	L	EURO
BT50 MT1	1	25	45	49.00
BT50 MT2	2	32	60	49.00
BT50 MT3	3	40	65	50.00
BT50 MT4	4	48	95	51.00
BT50 MT5	5	63	105	55.00

## TOOLHODER FOR SCREW IN TYPE CUTTERS VİDALI TİP TAKIM TUTUCUSU

### JIS B 6339 (MAS403 BT) AD&B Balanced G6.3

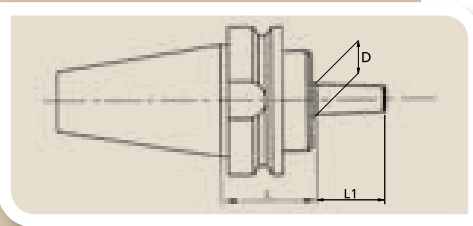
CODE / KOD BT 40	M	D	L	L1	EURO
BT40 M12 75	M12	21	75	48	45.00
BT40 M12 100	M12	21	100	73	50.00
BT40 M12 130	M12	21	130	103	56.00
BT40 M16 75	M16	29	75	48	45.00
BT40 M16 100	M16	29	100	73	50.00
BT40 M16 130	M16	29	130	103	56.00



## DRILL CHUCK ADAPTORS MANDREN TUTUCUSU

### JIS B 6339 (MAS403 BT)

CODE / KOD BT 40	D	L	L1	EURO
BT40 B12	B12	25	18.5	27.00
BT40 B16	B16	25	24	27.00
BT40 B18	B18	32	32	27.00



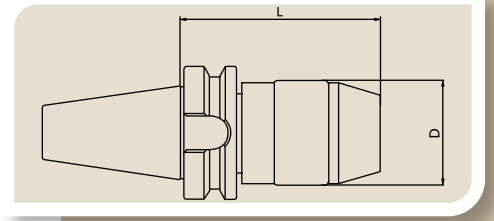
CODE / KOD BT 50	D	L	L1	EURO
BT50 B16	B16	32	24	48.00
BT50 B18	B18	32	32	48.00

## PRECISION DRILL CHUCK HOLDER HASSAS MATKAP MANDRENLİ TUTUCU

### JIS B 6339 (MAS403 BT) AD Balanced G6.3

CODE / KOD BT40	Clamping Range Sıkma Aralığı	D	L	EURO
BT40 PD13	1-13mm	50	90	160.00
BT40 PD16	1-16mm	50	90	175.00

CODE / KOD BT 50	Clamping Range Sıkma Aralığı	D	L	EURO
BT50 PD16	1-16mm	50	100	210.00

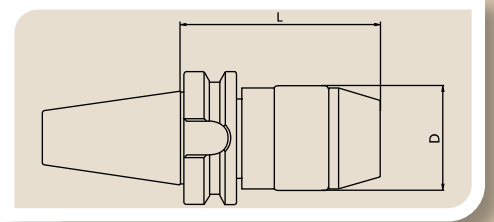


## DRILL CHUCK HOLDER (Eco Type)\* MATKAP MANDRENLİ TUTUCU (Eko Tip)\*

### JIS B 6339 (MAS403 BT)

CODE / KOD BT40	Clamping Range Sıkma Aralığı	D	L	EURO
BT40 DC13	1-13mm	48	100	80.00
BT40 DC16	3-16mm	53	110	84.00

CODE / KOD BT50	Clamping Range Sıkma Aralığı	D	L	EURO
BT50 DC16	3-16mm	53	115	120.00



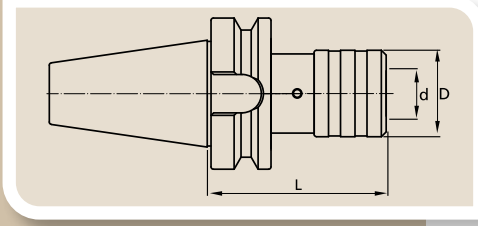
\* Suitable when high precision is not required. / Yüksek hassasiyet gerektirmeyen durumlarda uygundur.

## QUICK CHANGE TAPPING CHUCKS KOLAY DEĞİŞEBİLİR KILAVUZ ÇEKME BAŞLIKLARI

### JIS B 6339 (MAS403 BT)

CODE / KOD BT 40	M	d	D	L	EURO
BT40 TC1	M3 - M14	19	36	76	95.00
BT40 TC2	M5 - M24	31	53	96	105.00
BT40 TC3	M14 - M36	48	78	138	170.00

CODE / KOD BT 50	M	d	D	L	EURO
BT50 TC1	M3 - M14	19	36	86	125.00
BT50 TC2	M5 - M24	31	53	106	145.00
BT50 TC3	M14 - M36	48	78	148	215.00



## TAP HOLDERS Quick Change KILAVUZ TUTUCULARI Kolay deęişebilir

### WITHOUT CLUTCH (FIXED) / SABİT TİP

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



### WITH SAFETY CLUTCH / EMNİYETLİ TİP

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



### TAP HOLDER REDUCTION / KILAVUZ TUTUCU REDÜKSİYONU

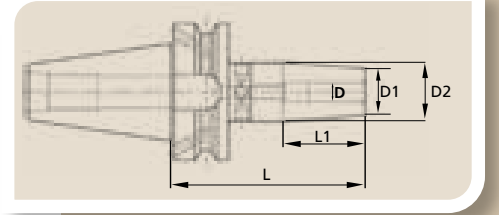
Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



## SHRINK FIT TOOLHOLDERS ISITMALI TUTUCULAR

### JIS B 6339 (MAS403 BT) AD&B G2.5 Balanced

CODE / KOD BT40	D	D1	D2	L	L1	EURO
BT40 SF04 80	4	15	20	80	-	90.00
BT40 SF06 90	6	21	27	90	36	80.00
BT40 SF08 90	8	21	27	90	36	80.00
BT40 SF10 90	10	24	32	90	42	80.00
BT40 SF12 90	12	24	32	90	47	80.00
BT40 SF16 90	16	27	34	90	50	80.00
BT40 SF20 90	20	33	42	90	52	80.00
BT40 SF25 100	25	44	53	100	58	84.00
BT40 SF32 100	32	44	53	100	62	88.00

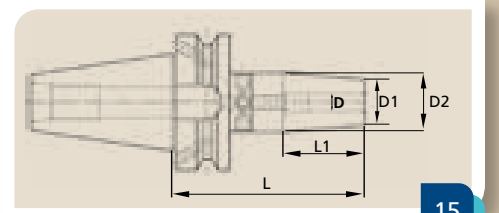


CODE / KOD BT50	D	D1	D2	L	L1	EURO
BT50 SF06 100	6	21	27	100	36	155.00
BT50 SF08 100	8	21	27	100	36	155.00
BT50 SF10 100	10	24	32	100	42	155.00
BT50 SF12 100	12	24	32	100	47	155.00
BT50 SF16 100	16	27	34	100	50	155.00
BT50 SF20 100	20	33	42	100	52	155.00
BT50 SF25 110	25	44	53	110	58	165.00
BT50 SF32 110	32	44	53	110	72	165.00

## SHRINK FIT TOOLHOLDERS LONG TYPE ISITMALI TUTUCULAR UZUN TİP

### JIS B 6339 (MAS403 BT) AD&B G2.5 Balanced

CODE / KOD BT40	D	D1	D2	L	L1	EURO
BT40 SF04 160	4	15	20	160	20	139.00
BT40 SF06 160	6	21	32	160	36	129.00
BT40 SF08 160	8	21	32	160	36	129.00
BT40 SF10 160	10	24	34	160	42	129.00
BT40 SF12 160	12	24	34	160	47	129.00





## HYDRAULIC CHUCKS HİDROLİK TUTUCULAR

### JIS B 6339 (MAS403 BT) AD&B G2.5 Balanced

CODE / KOD BT 40	D	D1	D2	L1	EURO
BT40 HY06 80	6	26	50	80	130.00
BT40 HY08 80	8	28	50	80	130.00
BT40 HY10 80	10	30	50	80	130.00
BT40 HY12 90	12	32	50	90	120.00
BT40 HY16 90	16	38	50	90	130.00
BT40 HY20 95	20	42	50	95	120.00
BT40 HY25 105	25	50	50	105	130.00
BT40 HY32 110	32	60	60	110	150.00

CODE / KOD BT 50	D	D1	D2	L1	EURO
BT50 HY12 110	12	32	50	110	200.00
BT50 HY20 110	20	42	50	110	200.00

### REDUCTION COLLETS FOR HYDRAULIC CHUCKS (High Precision) Runout: Max. 5 Micron HİDROLİK TUTUCU İÇİN REDÜKSİYON PENSLER (Yüksek Hassasiyet) Salgı: Max. 5 Micron

#### RH12 Ø12

D	D1 Clamping Range / Sıkma Aralığı	L
12	2 - 10	40

#### RH20 Ø20

D	D1 Clamping Range / Sıkma Aralığı	L
20	2 - 18	50

#### RH25 Ø25

D	D1 Clamping Range / Sıkma Aralığı	L
25	3 - 20	54

#### RH32 Ø32

D	D1 Clamping Range / Sıkma Aralığı	L
32	3 - 28	58

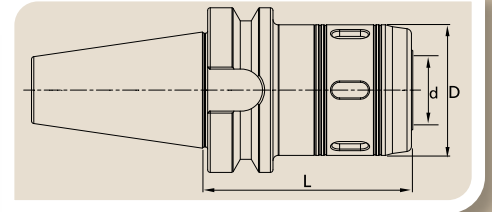
Suitable for internal and external cooling / İçten ve dıştan soğutmaya uygundur.  
Please see details at pages nr. 126-129 / Detaylar için 126-129 sayfalara bakınız.

## HIGH POWER HP MILLING CHUCK YÜKSEK SIKMA GÜÇLÜ HP FREZE TUTUCUSU

### JIS B 6339 (MAS403 BT) AD G6.3 Balanced

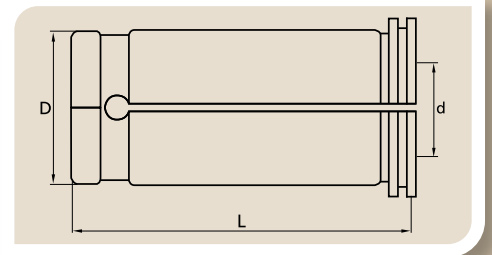
CODE / KOD BT 40	TAPER / KONİK	d	D	L	EURO
BT40HP20	BT40	20	50	90	132.00
BT40HP25	BT40	25	59	105	138.00
BT40HP32	BT40	32	70	105	145.00

CODE / KOD BT 50	TAPER / KONİK	d	D	L	EURO
BT50HP25	BT50	25	59	105	180.00
BT50HP32	BT50	32	70	110	190.00



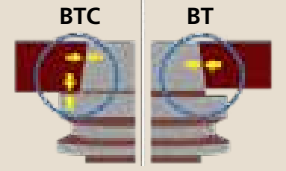
## STRAIGHT (CYLINDRICAL) REDUCTION COLLETS FOR HP MILLING CHUCKS DÜZ (SİLİNDİRİK) REDÜKSİYON PENSLER, HP FREZE TUTUCULARI İÇİN

CODE / KOD	D outside dia dış çap	d inside dia iç çap	L	EURO
SC2003	20	3	50	11.00
SC2004	20	4	50	11.00
SC2005	20	5	50	11.00
SC2006	20	6	50	11.00
SC2008	20	8	50	11.00
SC2010	20	10	50	11.00
SC2012	20	12	50	11.00
SC2014	20	14	50	11.00
SC2016	20	16	50	11.00
SC2503	25	3	60	11.00
SC2504	25	4	60	11.00
SC2505	25	5	60	11.00
SC2506	25	6	60	11.00
SC2508	25	8	60	11.00
SC2510	25	10	60	11.00
SC2512	25	12	60	11.00
SC2514	25	14	60	11.00
SC2516	25	16	60	11.00
SC2518	25	18	60	11.00
SC2520	25	20	60	11.00
SC3204	32	4	65	12.00
SC3205	32	5	65	12.00
SC3206	32	6	65	12.00
SC3208	32	8	65	12.00
SC3210	32	10	65	12.00
SC3212	32	12	65	12.00
SC3214	32	14	65	12.00
SC3216	32	16	65	12.00
SC3218	32	18	65	12.00
SC3220	32	20	65	12.00
SC3225	32	25	65	12.00



Not suitable for Hydraulic chucks  
Hidrolik tutucu için uygun değildir

**BTC40 (BT40) FACE & TAPER CONTACT TOOLHOLDERS**  
**BTC40 (BT40) ALIN & KONİK TEMAS YÜZEYLİ TUTUCULAR**  
**JIS B 6339 (MAS403) BTC40 AD&B Balanced G2.5**



Taper and flange face Contact at the same time. / Konik ve flanş yüzeyi birlikte temas etmektedir.

**BTC40 ER COLLET CHUCKS / ER PENS BAŞLIKLARI**

CODE / KOD BTC 40	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
BTC40 ER16	60	28	ER16 Ø1-12mm	49.00
BTC40 ER16 100	100	28	ER16 Ø1-12mm	59.00
BTC40 ER25	70	42	ER25 Ø1-20mm	49.00
BTC40 ER25 100	100	42	ER25 Ø1-20mm	59.00
BTC40 ER32	70	50	ER32 Ø1-25mm	49.00
BTC40 ER32 100	100	50	ER32 Ø1-25mm	59.00
BTC40 ER40	70	63	ER40 Ø1-32mm	51.00
BTC40 ER40 100	100	63	ER40 Ø1-32mm	61.00

**BTC40 FACE MILL ADAPTORS / ALINDAN SIKMALI FREZE TUTUCULAR**

CODE / KOD BTC 40	D1	D	L	EURO
BTC40 FM16	16	38	40	46.00
BTC40 FM16 100	16	38	100	57.00
BTC40 FM22	22	48	45	46.00
BTC40 FM22 100	22	48	100	57.00
BTC40 FM27	27	58	45	46.00
BTC40 FM27 100	27	58	100	57.00
BTC40 FM32	32	78	50	48.00
BTC40 FM40	40	88	55	50.00

**BTC40 WELDON ADAPTORS / WELDON TUTUCULAR**

CODE / KOD BTC 40	D1	D	L	EURO
BTC40 W06	6	25	50	44.00
BTC40 W08	8	28	50	44.00
BTC40 W10	10	35	63	44.00
BTC40 W12	12	42	63	44.00
BTC40 W16	16	48	63	44.00
BTC40 W20	20	52	63	44.00
BTC40 W25	25	65	90	47.00
BTC40 W32	32	72	100	57.00



**DIN 69871 (ISO 7388-1)**

**TOOLHOLDERS**  
*TAKIM TUTUCULARI*

## COLLET CHUCKS PENS BAŞLIKLARI

### DIN 69871 (ISO7388-1) AD&B Balanced G6.3

CODE / KOD DIN 30	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
DIN30 ER11 100M	100	16	ER11 Ø1-8mm	38.00
DIN30 ER16	60	28	ER16 Ø1-12mm	29.00
DIN30 ER16 100	100	28	ER16 Ø1-12mm	38.00
DIN30 ER25	60	42	ER25 Ø1-20mm	29.00
DIN30 ER32	60	50	ER32 Ø1-25mm	29.00
DIN30 ER32 100	100	50	ER32 Ø1-25mm	38.00
DIN30 ER40	70	63	ER40 Ø1-32mm	40.00

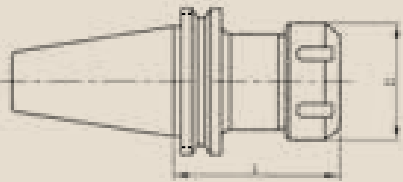
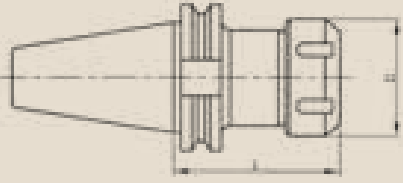
CODE / KOD DIN 40	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
DIN40 ER11 100M	100	16	ER11 Ø1-8mm	38.00
DIN40 ER16	60	28	ER16 Ø1-12mm	28.00
DIN40 ER16 100	100	28	ER16 Ø1-12mm	37.00
DIN40 ER16 130M	130	22	ER16 Ø1-12mm	45.00
DIN40 ER16 160	160	28	ER16 Ø1-12mm	58.00
DIN40 ER20	70	34	ER20 Ø2-16mm	28.00
DIN40 ER20 100	100	34	ER20 Ø2-16mm	37.00
DIN40 ER25	70	42	ER25 Ø1-20mm	28.00
DIN40 ER25 100	100	42	ER25 Ø1-20mm	37.00
DIN40 ER25 160	160	42	ER25 Ø1-20mm	59.00
DIN40 ER32	70	50	ER32 Ø1-25mm	28.00
DIN40 ER32 100	100	50	ER32 Ø1-25mm	37.00
DIN40 ER32 160	160	50	ER32 Ø1-25mm	61.00
DIN40 ER40	70	63	ER40 Ø1-32mm	30.00
DIN40 ER40 100	100	63	ER40 Ø1-32mm	39.00
DIN40 ER40 160	160	63	ER40 Ø1-32mm	63.00

CODE / KOD DIN 50	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
DIN50 ER16	100	28	ER16 Ø1-12mm	58.00
DIN50 ER16 160	160	28	ER16 Ø1-12mm	77.00
DIN50 ER25	100	42	ER25 Ø1-20mm	58.00
DIN50 ER25 160	160	42	ER25 Ø1-20mm	77.00
DIN50 ER32	100	50	ER32 Ø1-25mm	58.00
DIN50 ER32 160	160	50	ER32 Ø1-25mm	77.00
DIN50 ER40	100	63	ER40 Ø1-32mm	60.00
DIN50 ER40 160	160	63	ER40 Ø1-32mm	79.00
DIN50 ER50	100	78	ER50 Ø6-40mm	86.00

G2.5 Balanced : available on request / istek üzerine mevcuttur.

### TOOLHOLDER FOR CNC ROUTER MACHINE SK30 G2.5 Balanced CNC ROUTER TEZGAH TUTUCUSU SK30 G2.5 Balanced

CODE / KOD SK 30	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
SK30 ER32	60	50	ER32 Ø1-25mm	30.00



## FACE MILL ADAPTORS

### ALINDAN SIKMALI FREZE TUTUCULAR

#### DIN 69871 (ISO7388-1) AD&B Balanced G6.3

CODE / KOD DIN 30	D	D1	L	EURO
DIN30 FM16	16	38	40	31.00
DIN30 FM22	22	48	40	31.00
DIN30 FM27	27	58	40	31.00
DIN30 FM32	32	78	50	33.00

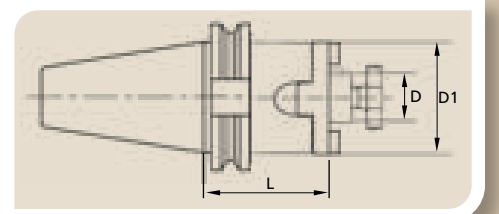
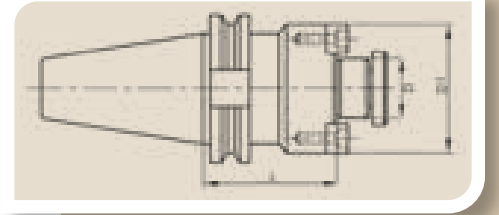
CODE / KOD DIN 40	D	D1	L	EURO
DIN40 FM16	16	38	35	31.00
DIN40 FM16 100	16	38	100	41.00
DIN40 FM16 160	16	38	160	62.00
DIN40 FM22	22	48	35	31.00
DIN40 FM22 100	22	48	100	41.00
DIN40 FM22 160	22	48	160	62.00
DIN40 FM27	27	58	40	32.00
DIN40 FM27 100	27	58	100	42.00
DIN40 FM27 160	27	58	160	63.00
DIN40 FM32	32	78	50	34.00
DIN40 FM32 100	32	78	100	44.00
DIN40 FM32 160	32	78	160	65.00
DIN40 FM40	40	88	50	37.00
DIN40 FM40 100	40	88	100	47.00

CODE / KOD DIN 50	D	D1	L	EURO
DIN50 FM16	16	38	45	55.00
DIN50 FM16 100	16	38	100	65.00
DIN50 FM22	22	48	45	55.00
DIN50 FM22 100	22	48	100	65.00
DIN50 FM27	27	58	45	56.00
DIN50 FM27 100	27	58	100	66.00
DIN50 FM32	32	78	55	58.00
DIN50 FM32 100	32	78	100	68.00
DIN50 FM40	40	88	55	60.00
DIN50 FM40 100	40	88	100	70.00

#### COMBI SHELL MILL ADAPTORS (with drive ring and key)

#### KOMBİNE FREZE TUTUCULAR (İstavroz pul ve kamalı)

CODE / KOD DIN 40	D	D1	L	EURO
DIN40 CM16	16	32	55	35.00
DIN40 CM22	22	40	55	35.00
DIN40 CM27	27	48	55	36.00
DIN40 CM32	32	58	60	38.00
DIN40 CM40	40	70	60	41.00

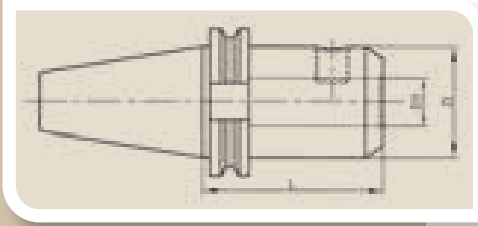


**DIN 69871 (ISO7388-1) AD&B Balanced G6.3**

CODE / KOD DIN 30	D	D1	L	EURO
DIN30 W06	6	25	50	27.00
DIN30 W08	8	28	50	27.00
DIN30 W10	10	35	50	27.00
DIN30 W12	12	42	50	27.00
DIN30 W16	16	48	63	27.00
DIN30 W20	20	52	63	28.00

CODE / KOD DIN 40	D	D1	L	EURO
DIN40 W06	6	25	50	27.00
DIN40 W06 100	6	25	100	34.00
DIN40 W08	8	28	50	27.00
DIN40 W08 100	8	28	100	34.00
DIN40 W10	10	35	50	27.00
DIN40 W10 100	10	35	100	34.00
DIN40 W12	12	42	50	27.00
DIN40 W12 100	12	42	100	34.00
DIN40 W14	14	44	50	27.00
DIN40 W16	16	48	63	27.00
DIN40 W16 100	16	48	100	34.00
DIN40 W18	18	50	63	27.00
DIN40 W20	20	52	63	27.00
DIN40 W20 100	20	52	100	34.00
DIN40 W25	25	65	100	32.00
DIN40 W32	32	72	100	36.00
DIN40 W40	40	80	120	41.00

CODE / KOD DIN 50	D	D1	L	EURO
DIN50 W06	6	25	63	49.00
DIN50 W08	8	28	63	49.00
DIN50 W10	10	35	63	49.00
DIN50 W12	12	42	63	50.00
DIN50 W14	14	44	63	50.00
DIN50 W16	16	48	63	50.00
DIN50 W18	18	50	63	50.00
DIN50 W20	20	52	63	50.00
DIN50 W25	25	65	80	54.00
DIN50 W32	32	72	100	56.00
DIN50 W40	40	80	120	60.00



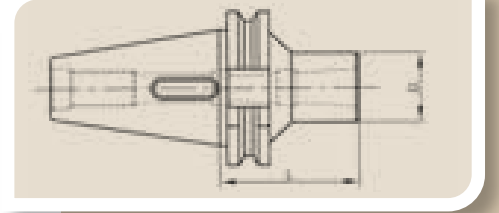
## MORSE TAPER ADAPTORS MORS KONİK TUTUCUSU

### DIN 69871 (ISO7388-1) AD&B Balanced G6.3

CODE / KOD DIN 40	MT	D	L	EURO
DIN40 MT1	1	25	50	27.00
DIN40 MT2	2	32	50	27.00
DIN40 MT2 DB *	2	32	50	29.00
DIN40 MT3	3	40	70	29.00
DIN40 MT3 DB *	3	40	70	31.00
DIN40 MT4	4	48	95	31.00
DIN40 MT4 DB *	4	48	95	33.00

\* DB types are drawbar type for holding morse taper shank with screwed end, all others are for tang type morse tapers.

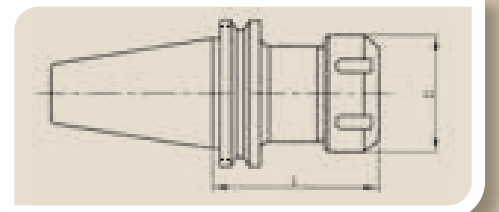
\* DB tipi çektilme vidalı mors konik saplar içindir, tüm diğerleri çakmalı tip mors konik saplar içindir.



CODE / KOD DIN 50	MT	D	L	EURO
DIN50 MT1	1	25	45	49.00
DIN50 MT2	2	32	60	49.00
DIN50 MT3	3	40	65	50.00
DIN50 MT4	4	48	95	51.00
DIN50 MT5	5	63	105	55.00

### DIN 69871 (ISO7388-1) OZ DIN6388 COLLET CHUCK PENS BAŞLIĞI OZ DIN6388

CODE / KOD DIN 40	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
DIN40 OZ25	70	60	OZ25 Ø2-32mm	42.00
DIN40 OZ32	80	72	OZ32 Ø4-32mm	54.00

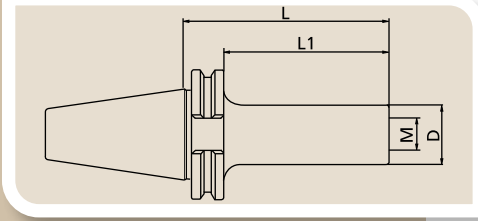




## TOOLHODER FOR SCREW IN TYPE CUTTERS VİDALI TİP TAKIM TUTUCUSU

### DIN 69871 (ISO7388-1) AD&B Balanced G6.3

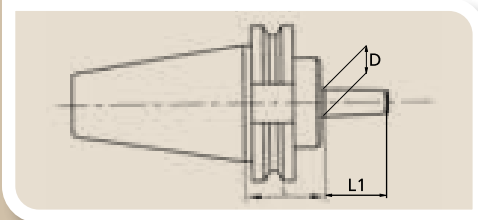
CODE / KOD DIN 40	M	D	L	L1	EURO
DIN40 M12 75	M12	21	75	56	45.00
DIN40 M12 100	M12	21	100	81	50.00
DIN40 M12 130	M12	21	130	111	56.00
DIN40 M16 75	M16	29	75	56	45.00
DIN40 M16 100	M16	29	100	81	50.00
DIN40 M16 130	M16	29	130	111	56.00



## DRILL CHUCK ADAPTORS MANDREN TUTUCUSU

### DIN 69871 (ISO7388-1)

CODE / KOD DIN 40	D	L	L1	EURO
DIN40 B12	B12	25	18.5	27.00
DIN40 B16	B16	25	24	27.00
DIN40 B18	B18	35	32	27.00
CODE / KOD DIN 50	D	L	L1	EURO
DIN50 B16	B16	25	24	48.00
DIN50 B18	B18	35	32	48.00

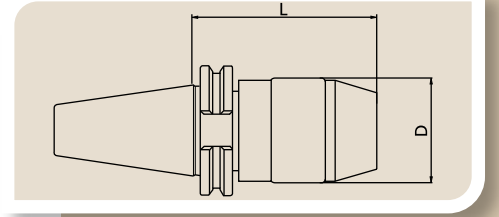


## PRECISION DRILL CHUCK HOLDER HASSAS MATKAP MANDRENLİ TUTUCU

### DIN 69871 (ISO7388-1) AD Balanced G6.3

CODE / KOD DIN 40	Clamping Range Sıkma Aralığı	D	L	EURO
DIN40 PD13	1-13mm	50	90	160.00
DIN40 PD16	1-16mm	50	90	175.00

CODE / KOD DIN 50	Clamping Range Sıkma Aralığı	D	L	EURO
DIN50 PD16	1-16mm	50	100	210.00

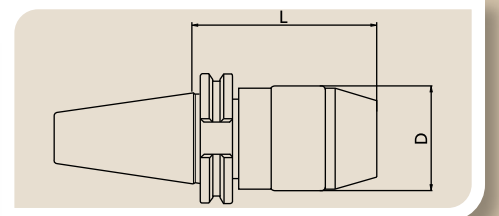


## DRILL CHUCK HOLDER (Eco Type)\* MATKAP MANDRENLİ TUTUCU (Eko Tip)\*

### DIN 69871 (ISO7388-1)

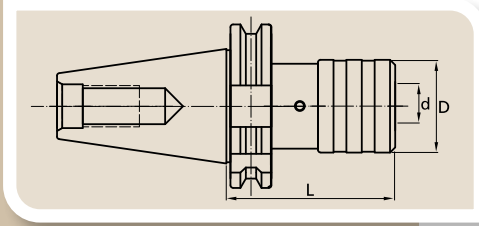
CODE / KOD DIN 40	Clamping Range Sıkma Aralığı	D	L	EURO
DIN40 DC13	1-13mm	48	100	80.00
DIN40 DC16	3-16mm	53	110	84.00

CODE / KOD DIN 50	Clamping Range Sıkma Aralığı	D	L	EURO
DIN50 DC16	3-16mm	53	115	120.00



\* Suitable when high precision is not required. / Yüksek hassasiyet gerektirmeyen durumlarda uygundur.

## TAPPING CHUCKS KILAVUZ ÇEKME BAŞLIKLARI



### DIN 69871 (ISO7388-1)

CODE / KOD DIN 40	M	d	D	L	EURO
DIN40 TC1	M3 - M14	19	36	67	95.00
DIN40 TC2	M5 - M24	31	53	87	105.00
DIN40 TC3	M14 - M36	48	78	130	170.00

CODE / KOD DIN 50	M	d	D	L	EURO
DIN50 TC1	M3 - M14	19	36	67	125.00
DIN50 TC2	M5 - M24	31	53	87	145.00
DIN50 TC3	M14 - M36	48	78	130	215.00

## TAP HOLDERS Quick Change KILAVUZ TUTUCULARI Kolay deęişebilir



### WITHOUT CLUTCH (FIXED) / SABİT TİP

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



### WITH SAFETY CLUTCH / EMNİYETLİ TİP

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



### TAP HOLDER REDUCTION / KILAVUZ TUTUCU REDÜKSİYONU

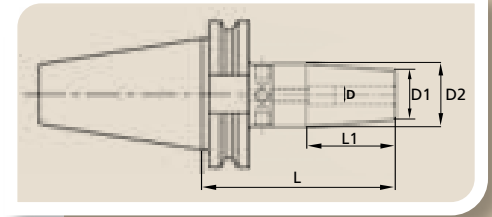
Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.

## SHRINK FIT TOOLHOLDERS ISITMALI TUTUCULAR

### DIN 69871 (ISO7388-1) AD&B Balanced G2.5

CODE / KOD DIN 40	D	D1	D2	L	L1	EURO
DIN40 SF04 80	4	15	20	80	-	90.00
DIN40 SF06 80	6	21	27	80	36	80.00
DIN40 SF08 80	8	21	27	80	36	80.00
DIN40 SF10 80	10	24	32	80	42	80.00
DIN40 SF12 80	12	24	32	80	47	80.00
DIN40 SF16 80	16	27	34	80	50	80.00
DIN40 SF20 80	20	33	42	80	52	80.00
DIN40 SF25 100	25	44	50	100	58	84.00
DIN40 SF32 100	32	44	50	100	62	88.00

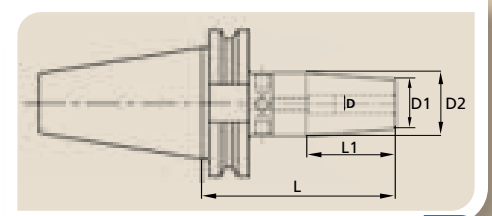
CODE / KOD DIN 50	D	D1	D2	L	L1	EURO
DIN50 SF06 80	6	21	27	80	36	155.00
DIN50 SF08 80	8	21	27	80	36	155.00
DIN50 SF10 80	10	24	32	80	42	155.00
DIN50 SF12 80	12	24	32	80	47	155.00
DIN50 SF16 80	16	27	34	80	50	155.00
DIN50 SF20 80	20	33	42	80	52	155.00
DIN50 SF25 100	25	44	53	100	58	165.00
DIN50 SF32 100	32	44	53	100	62	165.00



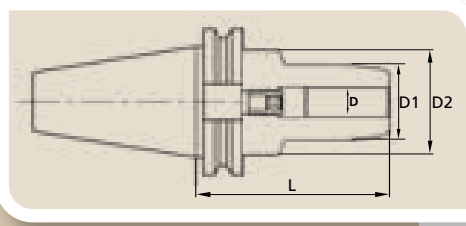
## SHRINK FIT TOOLHOLDERS LONG TYPE ISITMALI TUTUCULAR UZUN TİP

### DIN 69871 (ISO7388-1) AD&B Balanced G2.5

CODE / KOD DIN 40	D	D1	D2	L	L1	EURO
DIN40 SF04 160	4	15	20	160	20	139.00
DIN40 SF06 160	6	21	32	160	36	129.00
DIN40 SF08 160	8	21	32	160	36	129.00
DIN40 SF10 160	10	24	34	160	42	129.00
DIN40 SF12 160	12	24	34	160	47	129.00



## HYDRAULIC CHUCKS HİDROLİK TUTUCULAR

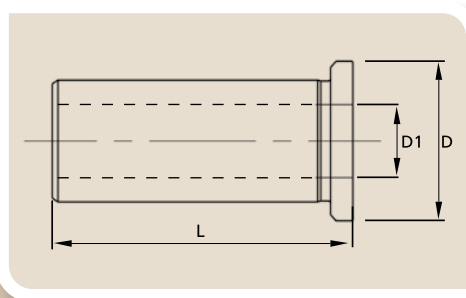


### DIN 69871 (ISO7388-1) AD&B Balanced G2.5

CODE / KOD DIN 40	D	D1	D2	L1	EURO
DIN40 HY06 75	6	26	50	75	130.00
DIN40 HY08 75	8	28	50	75	130.00
DIN40 HY10 75	10	30	50	75	130.00
DIN40 HY12 80	12	32	50	80	120.00
DIN40 HY16 85	16	38	50	85	130.00
DIN40 HY20 90	20	42	50	90	120.00
DIN40 HY25 110	25	50	50	110	130.00
DIN40 HY32 115	32	60	60	115	150.00

CODE / KOD DIN 50	D	D1	D2	L1	EURO
DIN50 HY12 110	12	32	50	110	200.00
DIN50 HY20 110	20	42	50	110	200.00

### REDUCTION COLLETS FOR HYDRAULIC CHUCKS (High Precision) Runout: Max. 5 Micron HİDROLİK TUTUCU İÇİN REDÜKSİYON PENSİLER (Yüksek Hassasiyet) Salgı: Max. 5 Micron



#### RH12 Ø12

D	D1 Clamping Range / Sıkma Aralığı	L
12	2 - 10	40

#### RH20 Ø20

D	D1 Clamping Range / Sıkma Aralığı	L
20	2 - 18	50

#### RH25 Ø25

D	D1 Clamping Range / Sıkma Aralığı	L
25	3 - 20	54

#### RH32 Ø32

D	D1 Clamping Range / Sıkma Aralığı	L
32	3 - 28	58

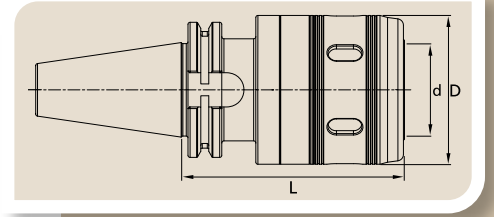
Suitable for internal and external cooling / İçten ve dıştan soğutmaya uygundur.  
Please see details at pages nr. 126-129 / Detaylar için 126-129 sayfalara bakınız.

## HIGH POWER HP MILLING CHUCK YÜKSEK SIKMA GÜÇLÜ HP FREZE TUTUCUSU

### DIN 69871 (ISO7388-1) AD Balanced G6.3

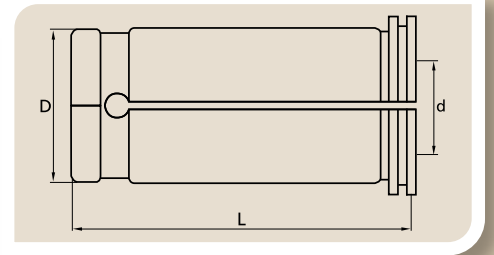
CODE / KOD DIN 40	TAPER / KONİK	d	D	L	EURO
DIN40HP20	DIN40	20	50	85	132.00
DIN40HP25	DIN40	25	59	100	138.00
DIN40HP32	DIN40	32	70	105	145.00

CODE / KOD DIN 50	TAPER / KONİK	d	D	L	EURO
DIN50HP25	DIN50	25	59	100	180.00
DIN50HP32	DIN50	32	70	110	190.00



## STRAIGHT (CYLINDRICAL) REDUCTION COLLETS FOR HP MILLING CHUCKS DÜZ (SİLİNDİRİK) REDÜKSİYON PENSLER, HP FREZE TUTUCULARI İÇİN

CODE / KOD	D outside dia dış çap	d inside dia iç çap	L	EURO
SC2003	20	3	50	11.00
SC2004	20	4	50	11.00
SC2005	20	5	50	11.00
SC2006	20	6	50	11.00
SC2008	20	8	50	11.00
SC2010	20	10	50	11.00
SC2012	20	12	50	11.00
SC2014	20	14	50	11.00
SC2016	20	16	50	11.00
SC2503	25	3	60	11.00
SC2504	25	4	60	11.00
SC2505	25	5	60	11.00
SC2506	25	6	60	11.00
SC2508	25	8	60	11.00
SC2510	25	10	60	11.00
SC2512	25	12	60	11.00
SC2514	25	14	60	11.00
SC2516	25	16	60	11.00
SC2518	25	18	60	11.00
SC2520	25	20	60	11.00
SC3204	32	4	65	12.00
SC3205	32	5	65	12.00
SC3206	32	6	65	12.00
SC3208	32	8	65	12.00
SC3210	32	10	65	12.00
SC3212	32	12	65	12.00
SC3214	32	14	65	12.00
SC3216	32	16	65	12.00
SC3218	32	18	65	12.00
SC3220	32	20	65	12.00
SC3225	32	25	65	12.00



Not suitable for Hydraulic chucks  
Hidrolik tutucu için uygun değildir





**DIN 2080 ISO**

**TOOLHOLDERS**  
*TAKIM TUTUCULARI*



## COLLET CHUCKS PENS BAŞLIKLARI

### DIN 2080 ISO

CODE / KOD ISO 30 DIN2080	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ISO30 ER16	50	28	ER16 Ø1-12mm	29.00
ISO30 ER25	50	42	ER25 Ø1-20mm	29.00
ISO30 ER32	50	50	ER32 Ø1-25mm	29.00
ISO30 ER40	60	63	ER40 Ø1-32mm	40.00

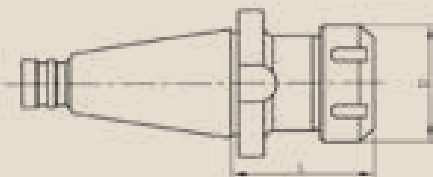
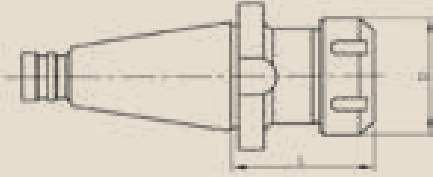
CODE / KOD ISO 40 DIN2080	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ISO40 ER16	50	28	ER16 Ø1-12mm	28.00
ISO40 ER25	60	42	ER25 Ø1-20mm	28.00
ISO40 ER32	60	50	ER32 Ø1-25mm	28.00
ISO40 ER40	60	63	ER40 Ø1-32mm	30.00

CODE / KOD ISO 50 DIN2080	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ISO50 ER25	70	42	ER25 Ø1-20mm	58.00
ISO50 ER32	70	50	ER32 Ø1-25mm	58.00
ISO50 ER40	70	63	ER40 Ø1-32mm	60.00
ISO50 ER50	90	78	ER50 Ø6-40mm	86.00

### DIN 2080 ISO DIN6388 (OZ) COLLET CHUCK / PENS BAŞLIĞI

CODE / KOD ISO 40 DIN2080	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ISO40 OZ25	70	60	OZ25 Ø2-32mm	42.00
ISO40 OZ32	80	72	OZ32 Ø4-32mm	54.00

CODE / KOD ISO 50 DIN2080	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ISO50 OZ32	75	72	OZ32 Ø4-32mm	73.00



## FACE MILL ADAPTORS

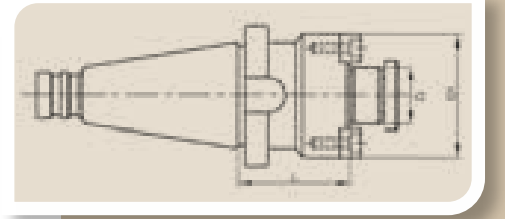
### ALINDAN SIKMALI FREZE TUTUCULAR

#### DIN 2080 ISO

CODE / KOD ISO 30 DIN2080	D	D1	L	EURO
ISO30 FM16	16	38	30	31.00
ISO30 FM22	22	48	30	31.00
ISO30 FM27	27	58	30	31.00
ISO30 FM32	32	78	30	33.00



CODE / KOD ISO 40 DIN2080	D	D1	L	EURO
ISO40 FM16	16	38	30	31.00
ISO40 FM22	22	48	30	31.00
ISO40 FM27	27	58	30	32.00
ISO40 FM32	32	78	30	34.00
ISO40 FM40	40	88	30	37.00



CODE / KOD ISO 50 DIN2080	D	D1	L	EURO
ISO50 FM16	16	38	30	55.00
ISO50 FM22	22	48	35	55.00
ISO50 FM27	27	58	35	56.00
ISO50 FM32	32	78	40	58.00
ISO50 FM40	40	88	40	60.00

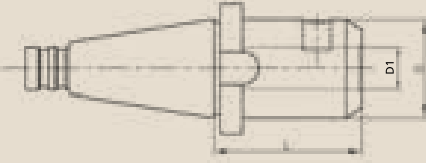
## WELDON ADAPTORS WELDON TUTUCULAR

### DIN 2080 ISO

CODE / KOD ISO 30 DIN2080	D1	D	L	EURO
ISO30 W06	6	25	40	27.00
ISO30 W08	7	28	40	27.00
ISO30 W10	10	35	40	27.00
ISO30 W12	12	42	40	27.00
ISO30 W16	16	48	50	27.00
ISO30 W20	20	52	63	28.00

CODE / KOD ISO 40 DIN2080	D1	D	L	EURO
ISO40 W06	6	25	50	27.00
ISO40 W08	8	28	50	27.00
ISO40 W10	10	35	50	27.00
ISO40 W12	12	42	50	27.00
ISO40 W16	16	48	63	27.00
ISO40 W20	20	52	63	27.00
ISO40 W25	25	65	80	32.00
ISO40 W32	32	72	80	36.00
ISO40 W40	40	80	90	41.00

CODE / KOD ISO 50 DIN2080	D1	D	L	EURO
ISO50 W10	10	35	63	49.00
ISO50 W12	12	42	63	50.00
ISO50 W16	16	48	63	50.00
ISO50 W20	20	52	63	50.00
ISO50 W25	25	65	80	54.00
ISO50 W32	32	72	80	56.00
ISO50 W40	40	80	90	60.00



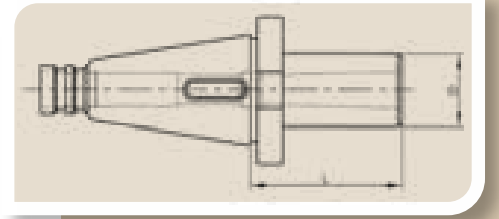
## MORSE TAPER ADAPTORS MORS KONİK TUTUCUSU

### DIN 2080 ISO

CODE / KOD ISO 40 DIN2080	MT	D	L	EURO
ISO40 MT1	1	25	50	27.00
ISO40 MT2	2	32	50	27.00
ISO40 MT3	3	40	65	29.00
ISO40 MT4	4	48	95	31.00



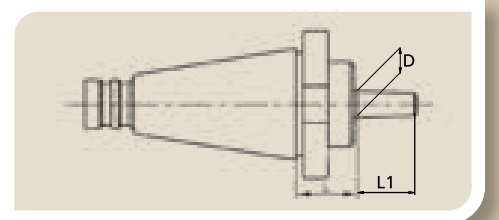
CODE / KOD ISO 50 DIN2080	MT	D	L	EURO
ISO50 MT2	2	32	60	49.00
ISO50 MT3	3	40	65	49.00
ISO50 MT4	4	48	70	50.00
ISO50 MT5	5	63	105	55.00



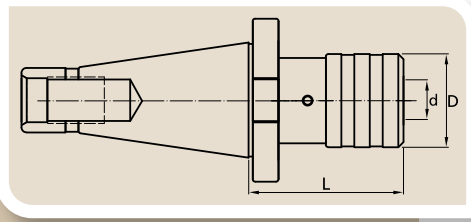
## DRILL CHUCK ADAPTORS MANDREN TUTUCUSU

### DIN 2080 ISO

CODE / KOD ISO 40 DIN2080	D	L	L1	EURO
ISO40 B12	B12	15	18.5	27.00
ISO40 B16	B16	17	24	27.00
ISO40 B18	B18	17	32	27.00



## TAPPING CHUCKS KILAVUZ ÇEKME BAŞLIKLARI



### DIN 2080 ISO

CODE / KOD ISO 40 DIN2080	M	d	D	L	EURO
ISO40 TC1	M3 - M14	19	36	61	95.00
ISO40 TC2	M5 - M24	31	53	81	105.00
ISO40 TC3	M14 - M36	48	78	123	170.00

CODE / KOD ISO 50 DIN2080	M	d	D	L	EURO
ISO50 TC2	M5 - M24	31	53	83	145.00
ISO50 TC3	M14 - M36	48	78	125	215.00

## TAP HOLDERS Quick Change KILAVUZ TUTUCULARI Kolay deęişebilir

### WITHOUT CLUTCH (FIXED) / SABİT TİP

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.

### WITH SAFETY CLUTCH / EMNİYETLİ TİP

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.

### TAP HOLDER REDUCTION / KILAVUZ TUTUCU REDÜKSİYONU

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



**HSK DIN69893 / ISO 12164  
TOOLHOLDERS**

*HSK DIN69893 / ISO 12164  
TAKIM TUTUCULAR*

## COLLET CHUCKS PENS BAŞLIKLARI

### HSK A DIN69893 / ISO 12164 FORM A Balanced G2.5

CODE / KOD HSK50A	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
HSK50A ER16	100	28	ER16 Ø1-12mm	60.00
HSK50A ER25	100	42	ER25 Ø1-20mm	60.00
HSK50A ER32	100	50	ER32 Ø1-25mm	60.00

CODE / KOD HSK63A	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
HSK63A ER16	100	28	ER16 Ø1-12mm	60.00
HSK63A ER25	100	42	ER25 Ø1-20mm	60.00
HSK63A ER32	100	50	ER32 Ø1-25mm	60.00
HSK63A ER40	100	63	ER40 Ø1-32mm	63.00

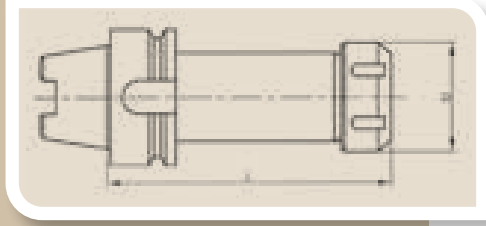
CODE / KOD HSK100A	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
HSK100A ER32	100	50	ER32 Ø1-25mm	90.00
HSK100A ER40	120	63	ER40 Ø1-32mm	94.00

### HSK63 COOLANT TUBE / SOĞUTUCU BORUSU

CODE / KOD	EURO
CTHSK63	6.70

### HSK63 SPANNER FOR COOLANT TUBE SOĞUTUCU BORUSU ANAHTARI

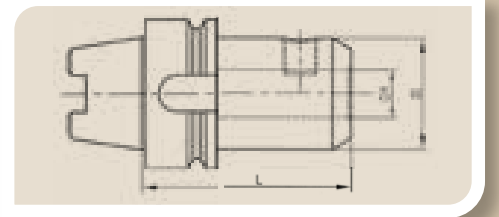
CODE / KOD	EURO
SPHSK63	14.50



## WELDON ADAPTORS WELDON TUTUCULAR

### HSK63 A DIN69893 / ISO 12164 Balanced G2.5

CODE / KOD HSK63A	D1	D	L	EURO
HSK63A W06	6	25	65	59.00
HSK63A W08	8	28	65	59.00
HSK63A W10	10	35	65	59.00
HSK63A W12	12	42	80	59.00
HSK63A W16	16	48	80	59.00
HSK63A W20	20	52	80	59.00
HSK63A W25	25	65	110	65.00
HSK63A W32	32	72	110	72.00



## FACE MILL ADAPTORS ALINDAN SIKMALI FREZE TUTUCULAR

### HSK63 A DIN69893 / ISO 12164 Balanced G2.5

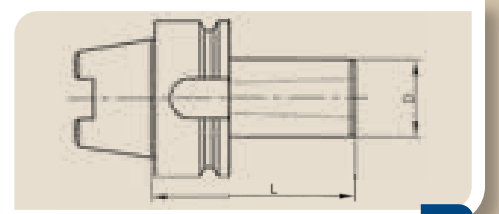
CODE / KOD HSK63A	D1	D	L	EURO
HSK63A FM16	16	38	50	69.00
HSK63A FM22	22	48	50	69.00
HSK63A FM27	27	58	60	70.00
HSK63A FM32	32	78	60	73.00
HSK63A FM40	40	88	60	76.00



## MORSE TAPER ADAPTORS MORS KONİK TUTUCUSU

### HSK63 A DIN69893 / ISO 12164 Balanced G2.5

CODE / KOD HSK63A	D1	D	L	EURO
HSK63A MT2	2	32	120	67.00
HSK63A MT3	3	40	140	69.00
HSK63A MT4	4	48	160	72.00

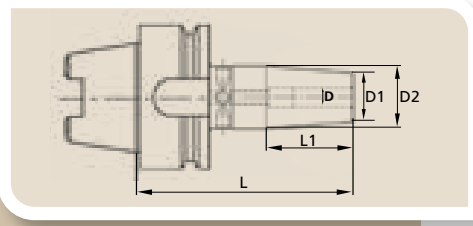




## SHRINK FIT TOOLHOLDERS ISITMALI TUTUCULAR

### HSK63A DIN69893 / ISO 12164 Balanced G2.5

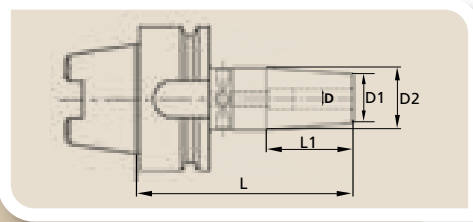
CODE / KOD HSK63A	D	D1	D2	L	L1	EURO
HSK63A SF04 80	4	15	20	80	-	102.00
HSK63A SF06 80	6	21	27	80	36	92.00
HSK63A SF08 80	8	21	27	80	36	92.00
HSK63A SF10 85	10	24	32	85	42	92.00
HSK63A SF12 90	12	24	32	90	47	92.00
HSK63A SF16 95	16	27	34	95	50	92.00
HSK63A SF20 100	20	33	42	100	52	92.00
HSK63A SF25 115	25	44	53	115	58	95.00



## SHRINK FIT TOOLHOLDERS LONG TYPE ISITMALI TUTUCULAR UZUN TİP

### HSK63A DIN69893 / ISO 12164 Balanced G2.5

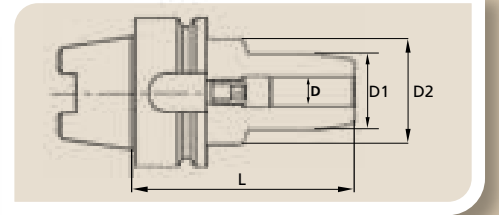
CODE / KOD HSK63A	D	D1	D2	L	L1	EURO
HSK63A SF04 160	4	15	25	160	-	145.00
HSK63A SF06 160	6	21	32	160	36	135.00
HSK63A SF08 160	8	21	32	160	36	135.00
HSK63A SF10 160	10	24	34	160	42	135.00
HSK63A SF12 160	12	24	34	160	47	135.00



## HYDRAULIC CHUCKS HİDROLİK TUTUCULAR

### HSK63A DIN69893 / ISO 12164 Balanced G2.5

CODE / KOD HSK63A	D	D1	D2	L	EURO
HSK63A HY06 80	6	26	50	80	160.00
HSK63A HY08 80	8	28	50	80	160.00
HSK63A HY10 85	10	30	50	85	160.00
HSK63A HY12 90	12	32	50	90	150.00
HSK63A HY16 95	16	38	50	95	160.00
HSK63A HY20 100	20	42	50	100	160.00
HSK63A HY25 105	25	50	50	105	170.00
HSK63A HY32 125	32	60		125	180.00



### REDUCTION COLLETS FOR HYDRAULIC CHUCKS (High Precision) Runout: Max. 5 Micron HİDROLİK TUTUCU İÇİN REDÜKSİYON PENSLELER (Yüksek Hassasiyet) Salgı: Max. 5 Micron

#### RH12 Ø12

D	D1 Clamping Range / Sıkma Aralığı	L
12	2 - 10	40

#### RH20 Ø20

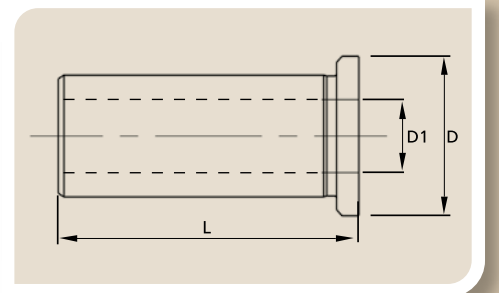
D	D1 Clamping Range / Sıkma Aralığı	L
20	2 - 18	50

#### RH25 Ø25

D	D1 Clamping Range / Sıkma Aralığı	L
25	3 - 20	54

#### RH32 Ø32

D	D1 Clamping Range / Sıkma Aralığı	L
32	3 - 28	58

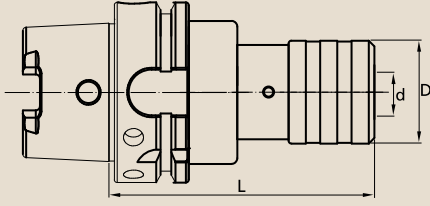


Suitable for internal and external cooling / İçten ve dıştan soğutmaya uygundur.  
Please see details at pages nr. 126-129 / Detaylar için 126-129 sayfalara bakınız.

## TAPPING CHUCKS KILAVUZ ÇEKME BAŞLIKLARI

### HSK63 A DIN69893 / ISO 12164

CODE / KOD HSK63A	M	d	D	L	EURO
HSK63A TC1	M3 - M14	19	36	94	145.00
HSK63A TC2	M5 - M24	31	53	135	160.00



## TAP HOLDERS Quick Change KILAVUZ TUTUCULARI Kolay deęişebilir

### WITHOUT CLUTCH (FIXED) / SABİT TİP

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



### WITH SAFETY CLUTCH / EMNİYETLİ TİP

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



### TAP HOLDER REDUCTION / KILAVUZ TUTUCU REDÜKSİYONU

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.





**STRAIGHT SHANK COLLET CHUCKS**  
*SİLİNDİRİK SAPLI PENS TUTUCULARI*

## STRAIGHT SHANK ER COLLET HOLDERS SİLİNDİRİK SAPLI ER PENS TUTUCULARI

### ER8

CODE / KOD	D	D1	L	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ER0808085M	8	12	85	ER8 Ø1-5.5mm	25.00
ER0810095M	10	12	95	ER8 Ø1-5.5mm	25.00
ER0812095M	12	12	95	ER8 Ø1-5.5mm	25.00
ER0812140M	12	12	140	ER8 Ø1-5.5mm	35.00

### ER11

CODE / KOD	D	D1	L	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ER1112100M	12	16	100	ER11 Ø1-8mm	24.00
ER1116115M	16	16	115	ER11 Ø1-8mm	24.00
ER1116165M	16	16	165	ER11 Ø1-8mm	34.00
ER1116115H	16	19	115	ER11 Ø1-8mm	24.00
ER11127178M	12.7 (1/2" inch)	16	178 (7" inch)	ER11 Ø1-8mm	46.00

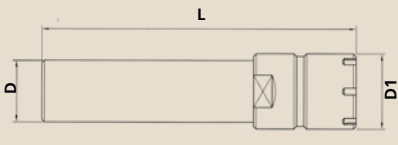
### ER16

CODE / KOD	D	D1	L	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ER1616090M	16	22	90	ER16 Ø1-12mm	24.00
ER1620130M	20	22	130	ER16 Ø1-12mm	24.00
ER1620200M	20	22	200	ER16 Ø1-12mm	34.00
ER1620130H	20	28	130	ER16 Ø1-12mm	24.00
ER1620130S	20	32	130	ER16 Ø1-12mm	24.00
ER1619178M	19.05 (3/4" inch)	22	178 (7" inch)	ER16 Ø1-12mm	42.00

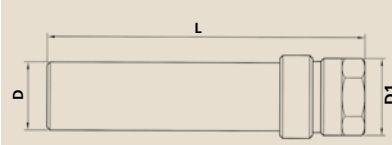
### ER20

CODE / KOD	D	D1	L	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ER2020140M	20	28	140	ER20 Ø2-16mm	25.00
ER2020140H	20	34	140	ER20 Ø2-16mm	25.00
ER2020140S	20	35	140	ER20 Ø2-16mm	25.00
ER2025110H	25	34	110	ER20 Ø2-16mm	25.00
ER2025110S	25	35	110	ER20 Ø2-16mm	25.00
ER2025200M	25	28	200	ER20 Ø2-16mm	35.00
ER20254178H	25.4 (1" inch)	28	178 (7" inch)	ER20 Ø2-16mm	42.00

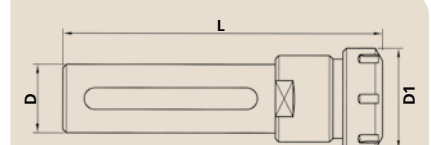
Straight shank collet holders have through hole for internal coolant and stop screw inside.  
SİLİNDİRİK SAPLI ER PENS TUTUCULARI İÇTEN SOĞUTMA İÇİN BOYDAN BOYA DELİKTİR AYRICA DAYAMA VIDASI VARDIR.



M: Mini



H: Hexagon



S: Standard

## STRAIGHT SHANK ER COLLET HOLDERS SİLİNDİRİK SAPLI ER PENS TUTUCULARI

### ER25

CODE / KOD	D	D1	L	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ER2520145M	20	35	145	ER25 Ø1-20mm	26.00
ER2525145M	25	35	145	ER25 Ø1-20mm	26.00
ER2525200M	25	35	200	ER25 Ø1-20mm	36.00
ER2532110S	32	42	110	ER25 Ø1-20mm	26.00
ER25254200M	25.4 (1" inch)	35	200	ER25 Ø1-20mm	36.00
ER25254190M	25.4 (1" inch)	35	190 (7-1/2" inch)	ER25 Ø1-20mm	42.00



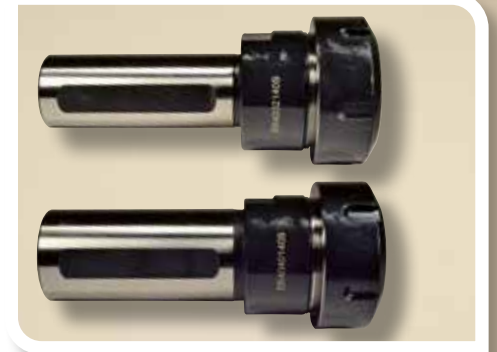
### ER32

CODE / KOD	D	D1	L	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ER3225110S	25	50	110	ER32 Ø1-25mm	26.00
ER3232110S	32	50	110	ER32 Ø1-25mm	26.00
ER3240110S	40	50	110	ER32 Ø1-25mm	28.00
ER3219152S	19.05 (3/4" inch)	50	152 (6" inch)	ER32 Ø1-25mm	53.00
ER32254190S	25.4 (1" inch)	50	190 (7-1/2" inch)	ER32 Ø1-25mm	45.00
ER32318114S	31.75 (1-1/4" inch)	50	114 (4-1/2" inch)	ER32 Ø1-25mm	41.00
ER32318152S	31.75 (1-1/4" inch)	50	152 (6" inch)	ER32 Ø1-25mm	43.00



### ER40

CODE / KOD	D	D1	L	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ER4032140S	32	63	140	ER40 Ø1-32mm	35.00
ER4040140S	40	63	140	ER40 Ø1-32mm	36.00
ER40254114S	25.4 (1" inch)	63	114 (4-1/2" inch)	ER40 Ø1-32mm	52.00
ER40254178S	25.4 (1" inch)	63	178 (7" inch)	ER40 Ø1-32mm	64.00
ER40318114S	31.75 (1-1/4" inch)	63	114 (4-1/2" inch)	ER40 Ø1-32mm	51.00
ER40318165S	31.75 (1-1/4" inch)	63	165 (6-1/2" inch)	ER40 Ø1-32mm	62.00

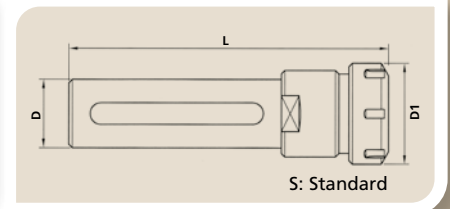
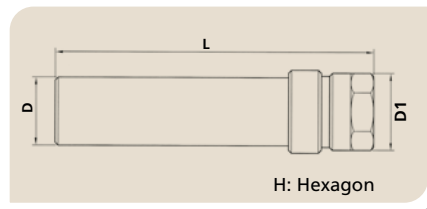
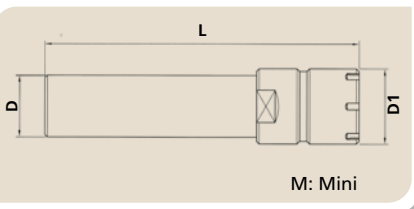


### ER50

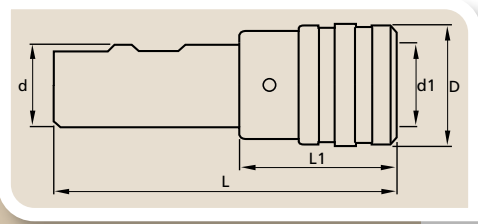
CODE / KOD	D	D1	L	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ER5040175S	40	78	175	ER50 Ø6-40mm	88.00



Straight shank collet holders have through hole for internal coolant and stop screw inside.  
SİLİNDİRİK SAPLI ER PENS TUTUCULARI İÇTEN SOĞUTMA İÇİN BOYDAN BOYA DELİKTİR AYRICA DAYAMA VIDASI VARDIR.



## STRAIGHT WELDON SHANK TAPPING CHUCKS SİLİNDRİK WELDON SAPLI KILAVUZ ÇEKME BAŞLIKLARI



CODE / KOD	M	d	d1	D	L	L1	EURO
SS20 TC1	M3 - M14	20	19	36	99	49	90.00
SS25 TC1	M3 - M14	25	19	36	105	49	95.00
SS25 TC2	M5 - M24	25	31	53	125	69	100.00
SS32 TC1	M3 - M14	32	19	36	110	49	100.00
SS32 TC2	M5 - M24	32	31	53	129	69	105.00
SS40 TC2	M5 - M24	40	31	53	135	69	110.00

## TAP HOLDERS Quick Change KILAVUZ TUTUCULARI Kolay deęişebilir



### WITHOUT CLUTCH (FIXED) / SABİT TİP

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



### WITH SAFETY CLUTCH / EMNİYETLİ TİP

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



### TAP HOLDER REDUCTION / KILAVUZ TUTUCU REDÜKSİYONU

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



**DIN 228 MORSE TAPER TOOLHOLDERS**  
*DIN 228 MORS KONİK TAKIM TUTUCULARI*



## COLLET CHUCKS PENS BAŞLIKLARI

### DIN228 A ER COLLET CHUCKS / ER PENS BAŞLIKLARI

CODE / KOD MT	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
MT2 ER20	50	34	ER20 Ø2-16mm	27.00
MT2 ER25	55	42	ER25 Ø1-20mm	27.00
MT2 ER32	70	50	ER32 Ø1-25mm	28.00
MT3 ER25	55	42	ER25 Ø1-20mm	28.00
MT3 ER32	70	50	ER32 Ø1-25mm	29.00
MT3 ER40	75	63	ER40 Ø1-32mm	30.00
MT4 ER32	70	50	ER32 Ø1-25mm	30.00
MT4 ER40	75	63	ER40 Ø1-32mm	31.00

### DIN228 A OZ25 DIN6388 COLLET CHUCK / PENS BAŞLIĞI

CODE / KOD MT	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
MT2 OZ25	85	60	OZ25 Ø2-32mm	40.00
MT3 OZ25	70	60	OZ25 Ø2-32mm	40.00
MT4 OZ25	70	60	OZ25 Ø2-32mm	42.00

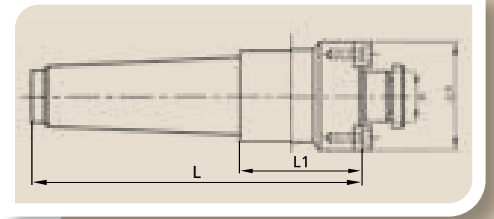


## FACE MILL ADAPTORS

### ALINDAN SIKMALI FREZE TUTUCULAR

#### DIN228 A MORSE TAPER / MORS KONİK

CODE / KOD MT	D	D1	L	L1	EURO
MT2 FM16	16	32	124	42	29.00
MT2 FM22	22	40	126	44	29.00
MT2 FM27	27	48	128	46	30.00
MT2 FM32	32	58	128	46	31.00
MT2 FM40	40	66	128	46	32.00
MT3 FM16	16	32	146	42	30.00
MT3 FM22	22	40	148	44	30.00
MT3 FM27	27	48	150	46	31.00
MT3 FM32	32	58	153	49	32.00
MT3 FM40	40	66	153	53	33.00
MT4 FM16	16	32	174	42	31.00
MT4 FM22	22	40	176	44	31.00
MT4 FM27	27	48	178	46	32.00
MT4 FM32	32	58	181	49	33.00
MT4 FM40	40	70	185	53	34.00

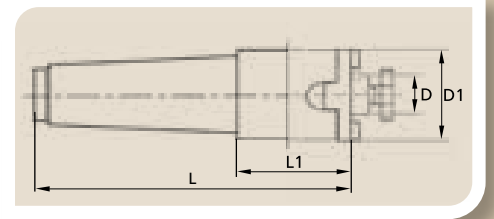


## COMBI SHELL MILL ADAPTORS (with drive ring and key)

### KOMBİNE FREZE TUTUCULAR (İstavroz pul ve kamalı)

#### DIN228 A MORSE TAPER / MORS KONİK

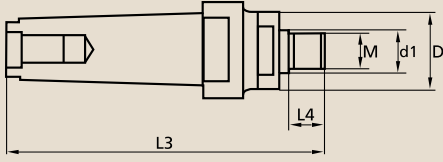
CODE / KOD MT	D	D1	L	L1	EURO
MT2 CM16	16	32	124	44	32.00
MT2 CM22	22	40	126	50	32.00
MT2 CM27	27	48	128	54	33.00
MT2 CM32	32	58	128	57	34.00
MT2 CM40	40	70	128	60	35.00
MT3 CM16	16	32	146	44	33.00
MT3 CM22	22	40	148	50	33.00
MT3 CM27	27	48	150	54	34.00
MT3 CM32	32	58	153	62	35.00
MT3 CM40	40	68	153	62	36.00
MT4 CM16	16	32	172	44	34.00
MT4 CM22	22	40	175	50	34.00
MT4 CM27	27	48	178	54	35.00
MT4 CM32	32	58	196	62	36.00
MT4 CM40	40	70	196	62	38.00



## THREADED BORE TOOL HOLDERS VİDALI ARKA DELİKLİ TAKIM TUTUCULARI

### DIN228 A MORSE TAPER / MORS KONİK

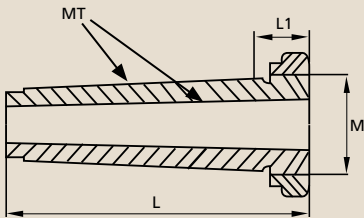
CODE / KOD MT	L3	L4	D	d1	EURO
MT3 M12	151	17	22	14	24.00
MT3 M16	154	19	32	18	24.00
MT3 M20	157	22	40	22	25.00
MT3 M24	159	24	48	26	26.00
MT4 M12	179	17	22	14	26.00
MT4 M16	182	19	32	18	27.00
MT4 M20	185	22	40	22	28.00



## REDUCTION WITH EXTRACTING NUT ÇIKARMA SOMUNLU REDÜKSİYON KOVANLAR

### DIN228 A MORSE TAPER / MORS KONİK

CODE / KOD MT	L	L1	M	EURO
MT2 MT1 XN	85	18	M22X1.5	27.00
MT3 MT1 XN	101	20	M27X1.5	27.00
MT3 MT2 XN	101	20	M27X1.5	25.00
MT4 MT1 XN	127	24	M34X2.0	27.00
MT4 MT2 XN	127	24	M34X2.0	25.00
MT4 MT3 XN	127	24	M34X2.0	25.00
MT5 MT3 XN	157	27	M48X2.0	27.00
MT5 MT4 XN	157	27	M48X2.0	27.00

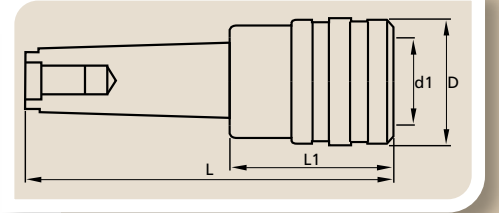


## TAPPING CHUCKS

### KILAVUZ ÇEKME BAŞLIKLARI

#### DIN228 A MORSE TAPER / MORS KONİK

CODE / KOD DIN228A MT	M	d1	D	L	L1	EURO
MT2 TC1	M3 - M14	19	36	113	49	100.00
MT3 TC1	M3 - M14	19	36	130	49	100.00
MT3 TC2	M5 - M24	31	53	150	69	105.00
MT4 TC1	M3 - M14	19	36	152	49	105.00
MT4 TC2	M5 - M24	31	53	172	69	110.00



## TAP HOLDERS Quick Change

### KILAVUZ TUTUCULARI Kolay değişebilir

#### WITHOUT CLUTCH (FIXED) / SABİT TİP

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



#### WITH SAFETY CLUTCH / EMNİYETLİ TİP

Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



#### TAP HOLDER REDUCTION / KILAVUZ TUTUCU REDÜKSİYONU

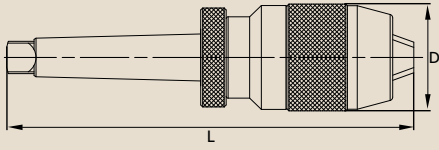
Please see details at page nr. 131  
Detaylar için sayfa 131 e bakınız.



## DRILL CHUCK HOLDERS MANDRENLİ TUTUCU

### DIN228 B MORSE TAPER / MORS KONİK

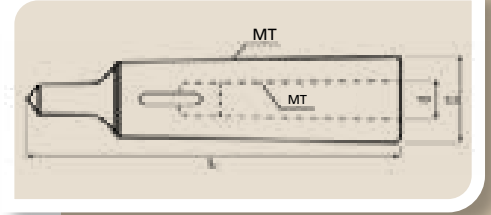
CODE / KOD DIN228B MT	Ø	D	L	EURO
MT2 DC13	1-13	51	185	69.00
MT2 DC16	3-16	55	190	72.00
MT3 DC13	1-13	51	205	71.00
MT3 DC16	3-16	55	210	74.00
MT4 DC13	1-13	51	210	74.00
MT4 DC16	3-16	55	235	79.00



## MORSE TAPER REDUCTION SLEEVE DIN2185

### MORS KONİK REDÜKSİYON KOVANLAR

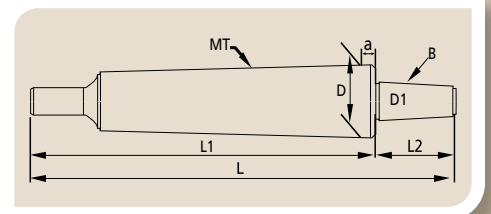
CODE / KOD DIN 2185	Outside Taper Dış Konik	Inside Taper İç Konik	L	EURO
MT2 MT1	MT2	MT1	92	6.60
MT3 MT1	MT3	MT1	99	7.20
MT3 MT2	MT3	MT2	112	6.60
MT4 MT1	MT4	MT1	124	10.00
MT4 MT2	MT4	MT2	124	9.00
MT4 MT3	MT4	MT3	140	8.80
MT5 MT1	MT5	MT1	156	16.50
MT5 MT2	MT5	MT2	156	15.50
MT5 MT3	MT5	MT3	156	15.00
MT5 MT4	MT5	MT4	171	15.00
MT6 MT3	MT6	MT3	218	44.00
MT6 MT4	MT6	MT4	218	43.00
MT6 MT5	MT6	MT5	218	43.00



## MORSE TAPER DRILL CHUCK ARBOR : MT DIN 228 B - DIN 238 B

### MORS KONİK MATKAP MANDREN ADAPTÖRÜ

CODE / KOD MT - B	Shank Taper Sap Koniği MT	Front Taper Uç Koniği B	L	L1	L2	D	D1	EURO
MT1 B10	MT1	B10	86	65	21	12,065	10,094	4.60
MT1 B12	MT1	B12	90	65	25	12,065	12,065	4.60
MT2 B10	MT2	B10	101	80	21	17,780	10,094	5.30
MT2 B12	MT2	B12	105	80	25	17,780	12,065	5.30
MT2 B16	MT2	B16	112	80	32	17,780	15,733	5.30
MT2 B18	MT2	B18	120	80	40	17,780	17,780	5.30
MT3 B12	MT3	B12	124	99	25	23,825	12,065	6.00
MT3 B16	MT3	B16	131	99	32	23,825	15,733	6.00
MT3 B18	MT3	B18	139	99	40	23,825	17,780	6.10
MT3 B22	MT3	B22	147	99	48	23,825	21,793	6.20
MT4 B16	MT4	B16	156	124	32	31,267	15,733	7.20
MT4 B18	MT4	B18	164	124	40	31,267	17,780	7.30
MT4 B22	MT4	B22	172	124	48	31,267	21,793	7.40
MT5 B16	MT5	B16	188	156	32	44,399	17,733	16.00
MT5 B18	MT5	B18	196	156	40	44,399	17,780	16.00
MT5 B22	MT5	B22	204	156	48	44,399	21,793	16.50
MT5 B24	MT5	B24	214	156	58	44,399	23,825	17.00







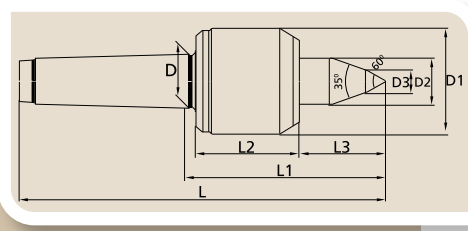
**LIVE CENTRES  
DRILL CHUCKS  
SOLID CENTRES  
CYLINDRICAL REDUCTION SLEEVES**

*DÖNER PUNTALAR  
MATKAP MANDRENLERİ  
SABİT PUNTALAR  
SİLİNDİRİK REDÜKSİYON KOVANLAR*



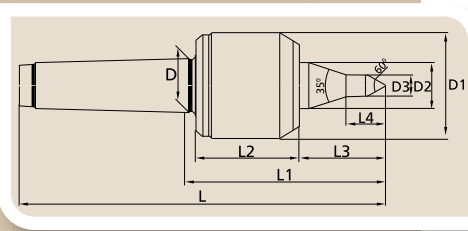
## PRECISION CNC LIVE CENTRES HASSAS CNC DÖNER PUNTALAR

CODE / KOD	Taper Konik	D	D1	D2	D3	L	L1	L2	L3	Max Rpm Devir	EURO
LCMT3	MT 3	23.825	53	22	10	184	103	42	54	8000	160.00
LCMT4	MT 4	31.267	63	28	12	225.5	124	53	64	6000	180.00
LCMT5	MT 5	44.399	83	38	16	284	155	63	79	4000	200.00



## PRECISION CNC LIVE CENTRES XP EXTENDED POINT HASSAS CNC DÖNER PUNTALAR XP UZUN BURUNLU

CODE / KOD	Taper Konik	D	D1	D2	D3	L	L1	L2	L3	L4	Max Rpm Devir	EURO
LCMT3XP	MT 3	23,825	53	22	10	184	103	42	54	15	8000	160.00
LCMT4XP	MT 4	31,267	63	28	14	225.5	124	53	64	25	6000	180.00
LCMT5XP	MT 5	44,399	83	38	16	284	155	69	79.5	25	4000	200.00



## PRECISION SOLID CENTRE HASSAS SABİT PUNTA

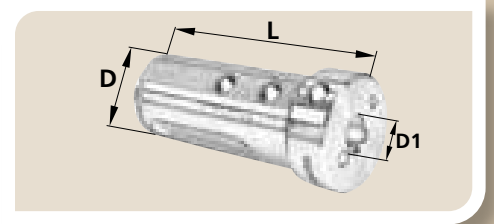
DIN 806				
CODE / KOD DIN 806	Taper Konik	D	L	EURO
SC806MT2	MT 2	18	100	25.00
SC806MT3	MT 3	24.1	125	27.00
SC806MT4	MT 4	31.6	160	35.00
SC806MT5	MT 5	44.7	200	65.00



## REDUCTION SLEEVES FOR CNC TURNING MACHINES

### CNC TORNALAR İÇİN REDÜKSİYON KOVANLAR

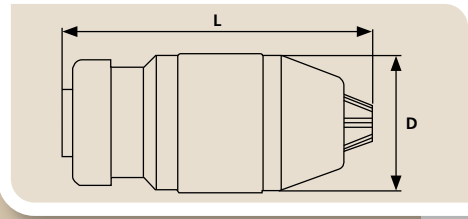
CODE / KOD	D	D1	L	FORM	EURO
RS2006	20	6	62	FORM 1	18.00
RS2008	20	8	62	FORM 1	18.00
RS2010	20	10	62	FORM 1	18.00
RS2012	20	12	62	FORM 2	18.00
RS2014	20	14	62	FORM 2	18.00
RS2016	20	16	62	FORM 2	18.00
RS2506	25	6	63	FORM 1	18.00
RS2508	25	8	63	FORM 1	18.00
RS2510	25	10	63	FORM 1	18.00
RS2512	25	12	63	FORM 2	18.00
RS2514	25	14	63	FORM 2	18.00
RS2516	25	16	63	FORM 2	18.00
RS2518	25	18	63	FORM 2	18.00
RS2520	25	20	63	FORM 2	18.00
RS3206	32	6	89	FORM 1	19.50
RS3208	32	8	89	FORM 1	19.50
RS3210	32	10	89	FORM 1	19.50
RS3212	32	12	89	FORM 1	19.50
RS3214	32	14	89	FORM 1	19.50
RS3216	32	16	89	FORM 1	19.50
RS3218	32	18	89	FORM 2	19.50
RS3220	32	20	89	FORM 2	19.50
RS3225	32	25	89	FORM 2	19.50
RS4006	40	6	100	FORM 1	21.00
RS4008	40	8	100	FORM 1	21.00
RS4010	40	10	100	FORM 1	21.00
RS4012	40	12	100	FORM 1	21.00
RS4014	40	14	100	FORM 1	21.00
RS4016	40	16	100	FORM 1	21.00
RS4018	40	18	100	FORM 1	21.00
RS4020	40	20	100	FORM 1	21.00
RS4025	40	25	100	FORM 2	21.00
RS4032	40	32	100	FORM 2	21.00



## SELF CENTERING DRILL CHUCK ELLE SIKMA MATKAP MANDRENİ



CODE / KOD	L	D	Clamping Range Sıkma Aralığı	Inner Rear Taper Arka Konik	EURO
DC10 B12	82	42	1-10MM	B12	19.50
DC13 B16	96	49	1-13MM	B16	21.00
DC16 B18	105	54	3-16MM	B18	24.00
DC20 B22	120	62	5-20MM	B22	38.00



## DIN 238 B TAPERED COLLET CHUCK DIN 238 B KONİKLİ PENS BAŞLIĞI



Suitable for B16 - B18 drill taper / B16 - B18 Matkap koniğine uygun

CODE / KOD	Inner Rear Taper Arka Konik	Collet Pens	Clamping Range Sıkma Aralığı	EURO
B16 ER25	B 16	ER25	2-16MM	29.00
B18 ER32	B 18	ER32	3-20MM	30.00

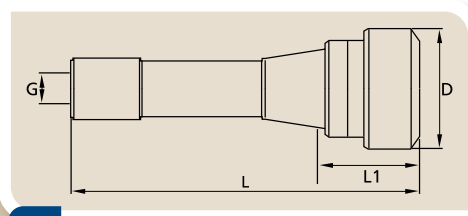
Performs better than the drill chuck in applications where high torque and higher precision required.  
Yüksek tork ve yüksek hassasiyet gereken uygulamalarda matkap mandreninden daha iyi netice verir.  
Suplied with extraction bolt / Çıkarma vidası ile verilir.



## R8 (BRIDGEPORT) ER COLLET CHUCKS R8 (BRIDGEPORT) ER PENS BAŞLIKLARI



CODE / KOD	L	L1	D	G	EURO
R8 ER32	160	60	50	7/16x20 UNF	34.00
R8 ER40	170	70	63	7/16x20 UNF	36.00

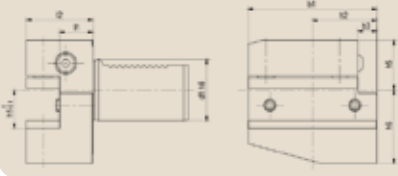




**DIN 69880 VDI TOOLHOLDERS**

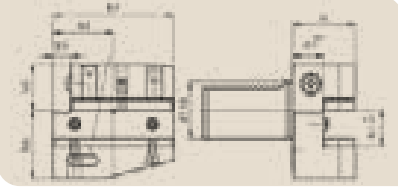
*DIN 69880 VDI TAKIM TUTUCULAR*

## DIN 69880 VDI TOOL HOLDERS DIN 69880 VDI TUTUCULAR



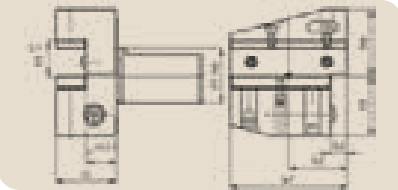
### Form B1 Radial Toolholder Right / Radyal Kater Tutucu Sağ

CODE / KOD	VDI d1	b1	b2	b3	h1	h5	h6	l1	l2	EURO
B1-20x16x30	VDI 20	55	30	7	12/16	25	30	16	30	59.00
B1-30x20x40	VDI 30	70	35	10	20/16	28	38	22	40	64.00
B1-40x25x44	VDI 40	85	42.5	12.5	25/20	32.5	48	22	44	70.00



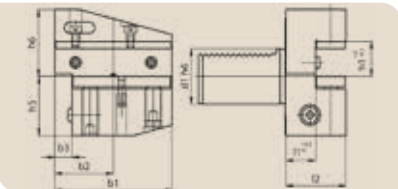
### Form B2 Radial Toolholder Left / Radyal Kater Tutucu Sol

CODE / KOD	VDI d1	b1	b2	b3	h1	h5	h6	l1	l2	EURO
B2-20x16x30	VDI 20	55	30	7	16/12	25	30	16	30	59.00
B2-30x20x40	VDI 30	70	35	10	20/16	28	38	22	40	64.00
B2-40x25x44	VDI 40	85	42.5	12.5	25/20	32.5	48	22	44	70.00



### Form B3 Radial Inverted Right / Radyal Kater Tutucu Ters Sağ

CODE / KOD	VDI d1	b1	b2	b3	h1	h5	h6	l1	l2	EURO
B3-20x16x30	VDI 20	55	30	7	16/12	25	30	16	30	59.00
B3-30x20x40	VDI 30	70	35	10	20/16	35	38	22	40	64.00
B3-40x25x44	VDI 40	85	42.5	12.5	25/20	42.5	48	22	44	70.00



### Form B4 Radial Inverted Left / Radyal Kater Tutucu Ters Sol

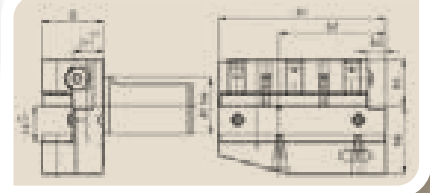
CODE / KOD	VDI d1	b1	b2	b3	h1	h5	h6	l1	l2	EURO
B4-20x16x30	VDI 20	55	30	7	16/12	25	30	16	30	59.00
B4-30x20x40	VDI 30	70	35	10	20/16	35	38	22	40	64.00
B4-40x25x44	VDI 40	85	42.5	12.5	25/20	42.5	48	22	44	70.00

## DIN 69880 VDI TOOL HOLDERS

### DIN 69880 VDI TUTUCULAR

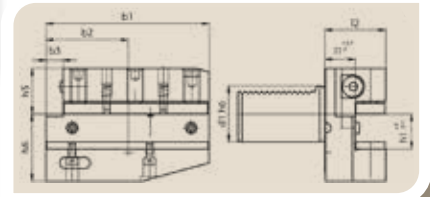
#### Form B5 Radial Toolholder Long Right / Radyal Kater Tutucu Uzun Sağ

CODE / KOD	VDI d1	b1	b2	b3	h1	h5	h6	l1	l2	EURO
B5-20x16x30	VDI 20	75	50	7	16/12	25	30	16	30	78.00
B5-30x20x40	VDI 30	100	65	10	20/16	28	38	22	40	101.00
B5-40x25x44	VDI 40	118	75.5	12.5	25/20	33	48	22	44	143.00



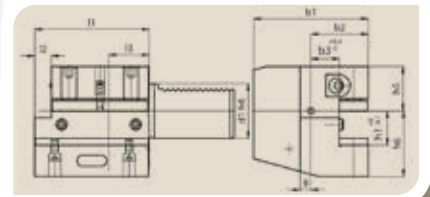
#### Form B6 Radial Toolholder Long Left / Radyal Kater Tutucu Uzun Sol

CODE / KOD	VDI d1	b1	b2	b3	h1	h5	h6	l1	l2	EURO
B6-20x16x30	VDI 20	75	50	7	16/12	25	30	16	30	78.00
B6-30x20x40	VDI 30	100	65	10	20/16	28	38	22	40	101.00
B6-40x25x44	VDI 40	118	75.5	12.5	25/20	33	48	22	44	143.00



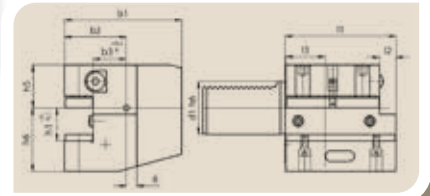
#### Form C1 Axial Toolholder Right / Eksenel Kater Tutucu Sağ

CODE / KOD	VDI d1	b1	b2	b3	h1	h5	h6	l1	l2	l3	EURO
C1-20x16x55	VDI 20	52	27	13	16/12	25	30	55	7	30	62.00
C1-30x20x70	VDI 30	70	35	17	20/16	28	38	70	10	30	76.00
C1-40x25x85	VDI 40	85	42.5	21	25/20	32.5	48	85	12.5	30	90.00

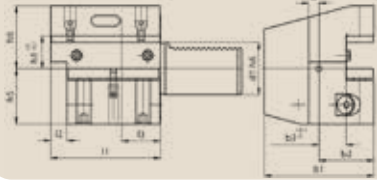


#### Form C2 Axial Toolholder Left / Eksenel Kater Tutucu Sol

CODE / KOD	VDI d1	b1	b2	b3	h1	h5	h6	l1	l2	l3	EURO
C2-20x16x55	VDI 20	52	27	13	16/12	25	30	55	7	30	62.00
C2-30x20x70	VDI 30	70	35	17	20/16	28	38	70	10	30	76.00
C2-40x25x85	VDI 40	85	42.5	21	25/20	32.5	48	85	12.5	30	90.00

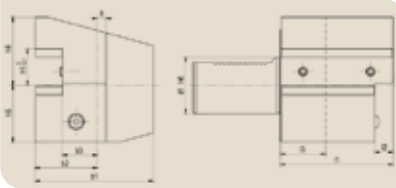


## DIN 69880 VDI TOOL HOLDERS DIN 69880 VDI TUTUCULAR



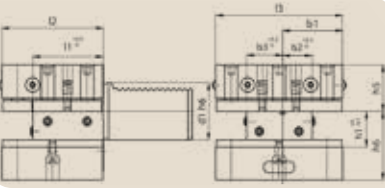
### Form C3 Axial Toolholder Inverted Right / Eksenel Kater Tutucu Ters Sağ

CODE / KOD	VDI d1	b1	b2	b3	h1	h5	h6	l1	l2	l3	EURO
C3-20x16x55	VDI 20	52	27	13	16/12	25	30	55	7	30	62.00
C3-30x20x70	VDI 30	70	35	17	20/16	35	38	70	10	30	76.00
C3-40x25x85	VDI 40	85	42.5	21	25/20	42.5	48	85	12.5	30	90.00



### Form C4 Axial Toolholder Inverted Left / Eksenel Kater Tutucu Ters Sol

CODE / KOD	VDI d1	b1	b2	b3	h1	h5	h6	l1	l2	l3	EURO
C4-20x16x50	VDI 20	65	40	26	16/12	25	30	50	-	30	62.00
C4-30x20x70	VDI 30	76	41	23	20/16	35	38	70	10	30	76.00
C4-40x25x85	VDI 40	90	47.5	25.5	25/20	42.5	48	85	12.5	30	90.00



### Form D1 Multiple Toolholder / Çok Yönlü Kater Tutucu

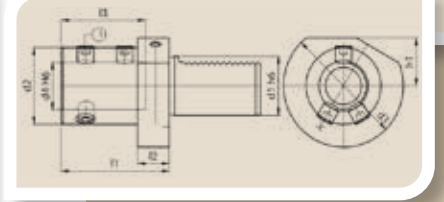
CODE / KOD	VDI d1	b1	b2	b3	h1	h5	h6	l1	l2	l3	EURO
D1-30x20x60	VDI 30	35	17	23	20/16	28	38	42	60	76	165.00
D1-40x25x72	VDI 40	42.5	21	25.5	25/20	32.5	48	50	72	90	190.00

## DIN 69880 VDI TOOL HOLDERS

### DIN 69880 VDI TUTUCULAR

#### Form E1 U-Drill Indexable Drill Holder / U-Drill Takma Uçlu Matkap Tutucu

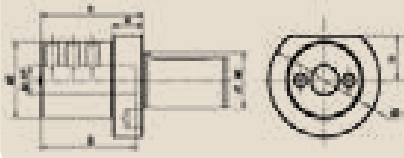
CODE / KOD	d1 VDI	d2	d3	d4	h1	l1	l2	l3	EURO
E1-20x16	VDI 20	36	50	16	-	66	18	54	58.00
E1-20x20	VDI 20	40	50	20	-	67	18	54	58.00
E1-30x16	VDI 30	36	68	16	28	66	22	54	62.00
E1-30x20	VDI 30	40	68	20	28	67	22	54	62.00
E1-30x25	VDI 30	45	68	25	28	71	22	58	62.00
E1-30x32	VDI 30	52	68	32	28	75	22	61	62.00
E1-30x40	VDI 30	65	68	40	28	90	22	72	68.00
E1-40x16	VDI 40	36	83	16	32.5	66	22	54	78.00
E1-40x20	VDI 40	40	83	20	32.5	67	22	54	78.00
E1-40x25	VDI 40	45	83	25	32.5	75	22	59	78.00
E1-40x32	VDI 40	52	83	32	32.5	75	22	61	78.00
E1-40x40	VDI 40	65	83	40	32.5	90	22	73	85.00
E1-50x20	VDI 50	40	98	20	35	67	30	54	103.00
E1-50x25	VDI 50	45	98	25	35	80	30	59	103.00
E1-50x32	VDI 50	52	98	32	35	80	30	63	103.00
E1-50x40	VDI 50	65	98	40	35	90	30	73	106.00





## DIN 69880 VDI TOOL HOLDERS

### DIN 69880 VDI TUTUCULAR



#### Form E2 Boring Bar Holder / Delik Kateri Tutucu

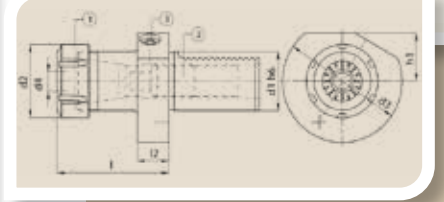
CODE / KOD	d1 VDI	d2	d3	d4	h1	l1	l2	l3	EURO
E2-20x8	VDI 20	40	50	8	23	50	18	42	58.00
E2-20x10	VDI 20	40	50	10	23	50	18	42	58.00
E2-20x12	VDI 20	40	50	12	23	50	18	42	58.00
E2-20x16	VDI 20	42	50	16	23	50	18	42	58.00
E2-20x20	VDI 20	49	50	20	23	50	18	42	58.00
E2-30x8	VDI 30	55	68	8	28	60	22	43	62.00
E2-30x10	VDI 30	55	68	10	28	60	22	43	62.00
E2-30x12	VDI 30	55	68	12	28	60	22	43	62.00
E2-30x16	VDI 30	55	68	16	28	60	22	55	62.00
E2-30x20	VDI 30	55	68	20	28	60	22	54	62.00
E2-30x25	VDI 30	55	68	25	28	60	22	54	62.00
E2-30x32	VDI 30	67	68	32	28	75	22	61	62.00
E2-40x10	VDI 40	55	83	10	32.5	75	22	43	71.00
E2-40x12	VDI 40	55	83	12	32.5	75	22	58	71.00
E2-40x16	VDI 40	55	83	16	32.5	75	22	61	71.00
E2-40x20	VDI 40	55	83	20	32.5	75	22	61	71.00
E2-40x25	VDI 40	55	83	25	32.5	75	22	61	71.00
E2-40x32	VDI 40	82	83	32	32.5	75	22	61	71.00
E2-40x40	VDI 40	82	83	40	32.5	90	22	76	71.00
E2-50x16	VDI 50	68	98	16	35	90	30	76	108.00
E2-50x20	VDI 50	68	98	20	35	90	30	76	108.00
E2-50x25	VDI 50	68	98	25	35	90	30	76	108.00
E2-50x32	VDI 50	69	98	32	35	90	30	76	108.00
E2-50x40	VDI 50	98	98	40	35	90	-	76	108.00

## DIN 69880 VDI TOOL HOLDERS

### DIN 69880 VDI TUTUCULAR

#### Form E4 ER Collet Holder / ER Pens Tutucu

CODE / KOD	d1 VDI	d1	d2	d3	d4	h1	l1	l2	EURO
E4-20xER16	VDI 20	20	32	50	1-10	23	44	18	80.00
E4-20xER25	VDI 20	20	42	50	2-16	23	50	18	80.00
E4-30xER16	VDI 30	30	32	68	1-10	28	48	22	90.00
E4-30xER25	VDI 30	30	42	68	2-16	28	57	22	90.00
E4-30xER32	VDI 30	30	50	68	3-20	28	75	22	90.00
E4-30xER40	VDI 30	30	63	68	4-26	28	80	22	92.00
E4-40xER25	VDI 40	40	42	83	2-16	32.5	57	22	100.00
E4-40xER32	VDI 40	40	50	83	3-20	32.5	75	22	100.00
E4-40xER40	VDI 40	40	63	83	4-26	32.5	75	22	102.00
E4-50xER40	VDI 50	50	63	98	4-26	35	75	30	115.00




## PRECISION STANDARDS HASSASİYET STANDARTLARI

### 3 DIFFERENT PRECISION LEVELS / 3 AYRI HASSASİYET SINIFI

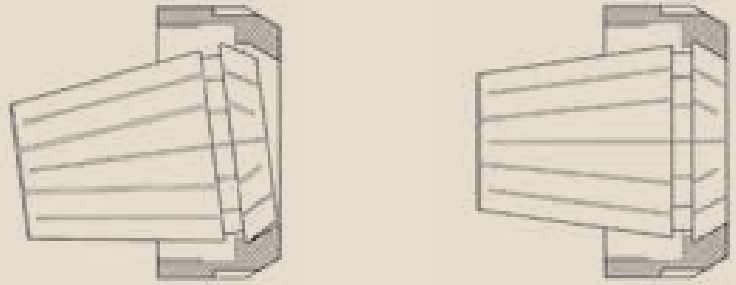
<b>CLASS 2</b>	Precise and economic, according to DIN6499 Class 2 Max 15-20 micron run out. <i>Hassas ve ekonomik, DIN 6499 Class 2 standardında Max.15-20 mikron salgı.</i>
<b>CLASS 1</b>	Upper precision level according to DIN 6499 Class 1 Max. 10 micron run out. <i>Daha Hassas, DIN 6499 Class 1 standardında Max.10 mikron salgı.</i>
<b>TOPAC</b>	<b>TOP</b> level ACcuracy with max. run out to 5 micron, suitable for very high precision , tight tolerance , high speed applications. <i>Süper Hassas, max 5 mikron salgı. Çok hassas takımlar, dar toleranslı işler, yüksek hızlı işlemeye uygun.</i>



### CONCENTRICITY MAX. RUN OUT / HASSASİYET MAX. SALGI

Ø d	L	DIN 6499 CLASS 2	DIN 6499 CLASS 1	 TOPAC
1 - 1.6	6	0.015	0.010	0.005
1.6 - 3	10	0.015	0.010	0.005
3 - 7	16	0.015	0.010	0.005
7 - 10	25	0.015	0.010	0.005
10 - 18	40	0.020	0.010	0.005
18 - 25	50	0.020	0.010	0.005
25 - 34	60	0.020	0.015	0.010

## COLLET MOUNTING INSTRUCTION PENS BAĞLAMA YÖNTEMİ





**ER COLLETS**  
*ER PENSLER*

## COLLETS PENSLER



### All Gurkan collets

... are guaranteed within the run out indicated for each class

... are 100% run out checked

...are not deformed when clamped to their minimum diameter.

....do not break with small shocks.

... are friendly to your toolholder in term of their smooth surface free of sharp edges and their exact angle geometry to suit the chuck taper and its clamping nut.

*Tüm Gürkan pensleri :*

*Belirtilen hassasiyetleri garanti eder.*

*% 100 kalite kontrolünden geçmiştir.*

*Alt çaplarını sıktığında deforme olmaz.*

*Küçük darbelerden kırılmaz.*

*Çapaksız ve hassas yüzey kalitesi ile tutucunuza zarar vermez ve kusursuz açılal geometrisiyle tutucunuza mükemmel uyum sağlar.*

## COLLETS PACKAGING / PENS AMBALAJLARI

The different precision levels are distinguished with different colors of caps on the plastic collets boxes.

The bodies of the plastic packs are transparent.

The transparent light blue colour bodies are only used for coolant sealed collets.

*Belirtilen 3 ayrı hassasiyet grubu penslerin plastik ambalajlarındaki kapak renkleri ile ayrılmaktadır.*

*Plastik kutuların gövdeleri şeffaftır.*

*Açık mavi renkli gövdeler sadece sızdırmaz penslerde kullanılmıştır.*



**Transparent cap : CLASS 2 (max.15-20 micron run out)**  
*Seffaf kapak : CLASS 2 (max.15-20 mikron salgı)*



**Yellow cap : CLASS 1 (max.10 micron run out)**  
*Sarı Kapak : CLASS 1 (max.10 mikron salgı)*



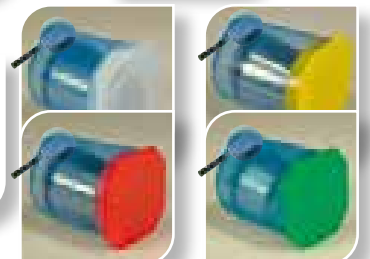
**Red cap : TOPAC (max.5 micron run out)**  
*Kırmızı kapak : TOPAC (süper hassas 5 Mikron salgı)*



**Green cap : Only specifies it is a tapping ER collet**  
*Yeşil Kapak : Sadece kılavuz pensi olduğunu belli eder*



**Light Blue Body : Specifies it is a coolant sealed collet**  
*Açık mavi gövde : Sızdırmaz pens olduğunu belirtir*



## ER 8 COLLETS ER 8 PENSLER

### DIN 6499 / ISO 15488-B

#### ER 8 CLASS 2

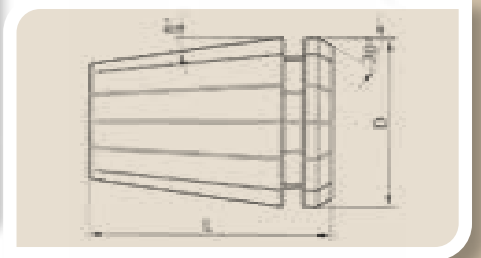
CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER080102	1.0-0.5	8.10
ER080152	1.5-1.0	8.10
ER080202	2.0-1.5	7.00
ER080252	2.5-2.0	7.00
ER080302	3.0-2.5	5.40
ER080352	3.5-3.0	5.40
ER080402	4.0-3.5	5.40
ER080452	4.5-4.0	5.40
ER080502	5.0-4.5	5.40
ER080552*	5.5-5.4	13.50

#### ER 8 CLASS 1

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER080101	1.0-0.5	9.70
ER080151	1.5-1.0	9.70
ER080201	2.0-1.5	8.40
ER080251	2.5-2.0	8.40
ER080301	3.0-2.5	6.70
ER080351	3.5-3.0	6.70
ER080401	4.0-3.5	6.70
ER080451	4.5-4.0	6.70
ER080501	5.0-4.5	6.70
ER080551*	5.5-5.4	17.50

#### ER 8 TOPAC (5 micron)

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER08010T	1.0-0.5	13.90
ER08015T	1.5-1.0	13.90
ER08020T	2.0-1.5	11.60
ER08025T	2.5-2.0	11.60
ER08030T	3.0-2.5	9.00
ER08035T	3.5-3.0	9.00
ER08040T	4.0-3.5	9.00
ER08045T	4.5-4.0	9.00
ER08050T	5.0-4.5	9.00
ER08055T*	5.5-5.4	23.50



\* Ø 5.5mm collet is shorter than standard. It can only clamp down 0.1mm

\* Ø 5.5mm pens standarttan daha kısadır. Sadece 0.1mm daralabilir.

Inch sized collets are also available please see its section / İnç ölçü pensler için lütfen ilgili bölüme bakınız.

D	8.5mm
L	13mm
CLAMPING RANGE TUTMA ARALIĞI	1.0-5.5mm
COLLAPSING CAPACITY TUTMA DARALMA KAPASİTESİ	0.5mm

## ER 8 COLLET SETS ER 8 PENS TAKIMLARI

### ER 8 COLLET SETS (Ø1-5mm 9 pcs.) / ER 8 Pens Takımları (Ø1-5mm 9Ad.)

#### ER 8 COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ER08SET2	9pcs ER8 collets Class 2 Ø1-5mm in 0.5mm increment in plastic box 9ad. ER8 pens Class 2 Ø1-5mm arası 0.5mm atlamalı plastik kutuda	62.20

#### ER 8 COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ER08SET1	9pcs ER8 collets Class 1 Ø1-5mm in 0.5mm increment in plastic box 9ad. ER8 pens Class 1 Ø1-5mm arası 0.5mm atlamalı plastik kutuda	74.70

#### ER 8 COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ER08SETT	9pcs ER8 collets TOPAC Ø1-5mm in 0.5mm increment in plastic box 9ad. ER8 pens TOPAC Ø1-5mm arası 0.5mm atlamalı plastik kutuda	101.00



## ER 11 COLLETS ER 11 PENSLER

### DIN 6499 / ISO 15488-B

#### ER 11 CLASS 2

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER110102	1.0-0.5	7.50
ER110152	1.5-1.0	7.50
ER110202	2.0-1.5	6.40
ER110252	2.5-2.0	6.40
ER110302	3.0-2.5	4.70
ER110352	3.5-3.0	4.70
ER110402	4.0-3.5	4.70
ER110452	4.5-4.0	4.70
ER110502	5.0-4.5	4.70
ER110552	5.5-5.0	4.70
ER110602	6.0-5.5	4.70
ER110652	6.5-6.0	4.70
ER110702	7.0-6.5	4.70
ER110752*	7.5-7.3	12.80
ER110802*	8.0-7.8	12.80

#### ER 11 CLASS 1

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER110101	1.0-0.5	9.10
ER110151	1.5-1.0	9.10
ER110201	2.0-1.5	7.80
ER110251	2.5-2.0	7.80
ER110301	3.0-2.5	6.00
ER110351	3.5-3.0	6.00
ER110401	4.0-3.5	6.00
ER110451	4.5-4.0	6.00
ER110501	5.0-4.5	6.00
ER110551	5.5-5.0	6.00
ER110601	6.0-5.5	6.00
ER110651	6.5-6.0	6.00
ER110701	7.0-6.5	6.00
ER110751*	7.5-7.3	15.80
ER110801*	8.0-7.8	15.80

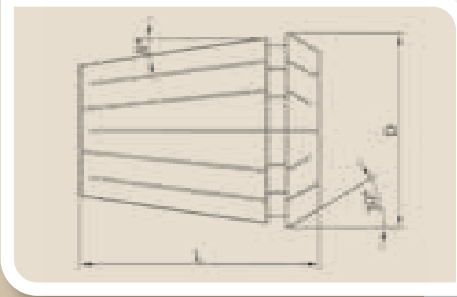
#### ER 11 TOPAC (5 micron)

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER11010T	1.0-0.5	13.30
ER11015T	1.5-1.0	13.30
ER11020T	2.0-1.5	11.00
ER11025T	2.5-2.0	11.00
ER11030T	3.0-2.5	8.30
ER11035T	3.5-3.0	8.30
ER11040T	4.0-3.5	8.30
ER11045T	4.5-4.0	8.30
ER11050T	5.0-4.5	8.30
ER11055T	5.5-5.0	8.30
ER11060T	6.0-5.5	8.30
ER11065T	6.5-6.0	8.30
ER11070T	7.0-6.5	8.30
ER11075T*	7.5-7.3	20.30
ER11080T*	8.0-7.8	20.30

\* Ø>7 (over Ø7mm dia) collets are shorter than standard. They can only clamp down Ø -0,2mm

\* Ø>7 (Ø7mm üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,2mm dir.

Inch sized collets are also available please see its section / İnç ölçü pensler için lütfen ilgili bölüme bakınız.



D	11.5mm
L	18mm
CLAMPING RANGE TUTMA ARALIĞI	1.0-8.0mm
COLLAPSING CAPACITY* TUTMA DARALMA KAPASİTESİ*	0.5mm

## ER 11 COLLET SET ER 11 PENS TAKIMLARI

ER 11 COLLET SETS (Ø1-7mm 13 pcs.) / ER 11 Pens Takımları (Ø1-7mm 13Ad.)

### ER 11 COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ER11SET2	13pcs ER11 collets Class 2 Ø1-7mm in 0.5mm increment in plastic box 13ad. ER11 pens Class 2 Ø1-7mm arası 0.5mm atlamalı plastik kutuda	75.10

### ER 11 COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ER11SET1	13pcs ER11 collets Class 1 Ø1-7mm in 0.5mm increment in plastic box 13ad. ER11 pens Class 1 Ø1-7mm arası 0.5mm atlamalı plastik kutuda	92.80

### ER 11 COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ER11SETT	13pcs ER11 collets TOPAC Ø1-7mm in 0.5mm increment in plastic box 13ad. ER11 pens TOPAC Ø1-7mm arası 0.5mm atlamalı plastik kutuda	128.30





## ER 16 COLLETS ER 16 PENSLER

### DIN 6499 / ISO 15488-B

#### ER 16 CLASS 2

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER160102	1.0-0.5	5.80
ER160152	1.5-1.0	5.80
ER160202	2.0-1.5	4.80
ER160252	2.5-2.0	4.80
ER160302	3.0-2.5	3.60
ER160352	3.5-2.5	4.60
ER160402	4.0-3.0	3.60
ER160452	4.5-3.5	4.60
ER160502	5.0-4.0	3.60
ER160552	5.5-4.5	4.60
ER160602	6.0-5.0	3.60
ER160652	6.5-5.5	4.60
ER160702	7.0-6.0	3.60
ER160752	7.5-6.5	4.60
ER160802	8.0-7.0	3.60
ER160852	8.5-7.5	4.60
ER160902	9.0-8.0	3.60
ER160952	9.5-8.5	4.60
ER161002	10.0-9.0	3.60
ER161052*	10.5-10.3	12.50
ER161102*	11.0-10.8	12.50
ER161152*	11.5-11.3	12.50
ER161202*	12.0-11.8	12.50
ER161252*	12.5-12.3	12.50

#### ER 16 CLASS 1

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER160101	1.0-0.5	7.40
ER160151	1.5-1.0	7.40
ER160201	2.0-1.5	6.20
ER160251	2.5-2.0	6.20
ER160301	3.0-2.5	4.90
ER160351	3.5-2.5	5.90
ER160401	4.0-3.0	4.90
ER160451	4.5-3.5	5.90
ER160501	5.0-4.0	4.90
ER160551	5.5-4.5	5.90
ER160601	6.0-5.0	4.90
ER160651	6.5-5.5	5.90
ER160701	7.0-6.0	4.90
ER160751	7.5-6.5	5.90
ER160801	8.0-7.0	4.90
ER160851	8.5-7.5	5.90
ER160901	9.0-8.0	4.90
ER160951	9.5-8.5	5.90
ER161001	10.0-9.0	4.90
ER161051*	10.5-10.3	15.50
ER161101*	11.0-10.8	15.50
ER161151*	11.5-11.3	15.50
ER161201*	12.0-11.8	15.50
ER161251*	12.5-12.3	15.50

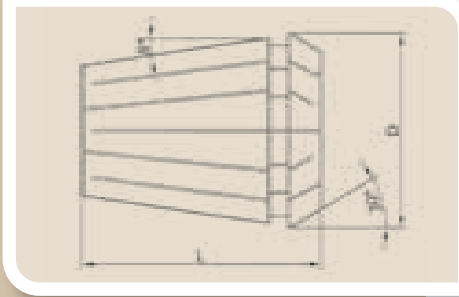
#### ER 16 TOPAC (5 micron)

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER16010T	1.0-0.5	11.60
ER16015T	1.5-1.0	11.60
ER16020T	2.0-1.5	9.40
ER16025T	2.5-2.0	9.40
ER16030T	3.0-2.5	7.20
ER16035T	3.5-2.5	8.20
ER16040T	4.0-3.0	7.20
ER16045T	4.5-3.5	8.20
ER16050T	5.0-4.0	7.20
ER16055T	5.5-4.5	8.20
ER16060T	6.0-5.0	7.20
ER16065T	6.5-5.5	8.20
ER16070T	7.0-6.0	7.20
ER16075T	7.5-6.5	8.20
ER16080T	8.0-7.0	7.20
ER16085T	8.5-7.5	8.20
ER16090T	9.0-8.0	7.20
ER16095T	9.5-8.5	8.20
ER16100T	10.0-9.0	7.20
ER16105T*	10.5-10.3	20.00
ER16110T*	11.0-10.8	20.00
ER16115T*	11.5-11.3	20.00
ER16120T*	12.0-11.8	20.00
ER16125T*	12.5-12.3	20.00

\* Ø>10 (over Ø10mm dia) collets are shorter than standard. They can only clamp down Ø -0,2mm  
\* Ø>10 (Ø10mm üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,2mm dir.

For Ø1-3mm collets, the clamping capacity is Ø-0,5mm  
Ø1-3mm arası penslerde daralma kapasitesi Ø -0.5 mm dir

Inch sized collets are also available please see its section / İnç ölçü pensler için lütfen ilgili bölüme bakınız.



D	17.0mm
L	27.5mm
CLAMPING RANGE TUTMA ARALIĞI	1.0-12.5mm
COLLAPSING CAPACITY* TUTMA DARALMA KAPASİTESİ*	1.0mm

## ER 16 COLLET SETS ER 16 PENS TAKIMLARI

ER 16 COLLET SETS (Ø1-10mm 10 pcs.) / ER 16 Pens Takımları (Ø1-10mm 10Ad.)

### ER 16 COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ER16SET2	10pcs ER16 collets Class 2 Ø1-10mm in 1.0mm increment in plastic box 10ad. ER16 pens Class 2 Ø1-10mm arası 1.0mm atlamalı plastik kutuda	44.40

### ER 16 COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ER16SET1	10pcs ER16 collets Class 1 Ø1-10mm in 1.0mm increment in plastic box 10ad. ER16 pens Class 1 Ø1-10mm arası 1.0mm atlamalı plastik kutuda	57.80

### ER 16 COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ER16SETT	10pcs ER16 collets TOPAC Ø1-10mm in 1.0mm increment in plastic box 10ad. ER16 pens TOPAC Ø1-10mm arası 1.0mm atlamalı plastik kutuda	83.60



## ER 20 COLLETS ER 20 PENSLER

### DIN 6499 / ISO 15488-B

#### ER 20 CLASS 2

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER200102	1.0-0.5	6.40
ER200152	1.5-1.0	6.40
ER200202	2.0-1.5	5.60
ER200252	2.5-2.0	5.60
ER200302	3.0-2.5	4.10
ER200352	3.5-2.5	5.40
ER200402	4.0-3.0	4.10
ER200452	4.5-3.5	5.40
ER200502	5.0-4.0	4.10
ER200552	5.5-4.5	5.40
ER200602	6.0-5.0	4.10
ER200652	6.5-5.5	5.40
ER200702	7.0-6.0	4.10
ER200752	7.5-6.5	5.40
ER200802	8.0-7.0	4.10
ER200852	8.5-7.5	5.40
ER200902	9.0-8.0	4.10
ER200952	9.5-8.5	5.40
ER201002	10.0-9.0	4.10
ER201052	10.5-9.5	5.40
ER201102	11.0-10.0	4.10
ER201152	11.5-10.5	5.40
ER201202	12.0-11.0	4.10
ER201252	12.5-11.5	5.40
ER201302	13.0-12.0	4.10
ER201352*	13.5-13.3	12.50
ER201402*	14.0-13.8	12.50
ER201452*	14.5-14.3	12.50
ER201502*	15.0-14.8	12.50
ER201552*	15.5-15.3	12.50
ER201602*	16.0-15.8	12.50

#### ER 20 CLASS 1

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER200101	1.0-0.5	8.00
ER200151	1.5-1.0	8.00
ER200201	2.0-1.5	7.00
ER200251	2.5-2.0	7.00
ER200301	3.0-2.5	5.40
ER200351	3.5-2.5	6.70
ER200401	4.0-3.0	5.40
ER200451	4.5-3.5	6.70
ER200501	5.0-4.0	5.40
ER200551	5.5-4.5	6.70
ER200601	6.0-5.0	5.40
ER200651	6.5-5.5	6.70
ER200701	7.0-6.0	5.40
ER200751	7.5-6.5	6.70
ER200801	8.0-7.0	5.40
ER200851	8.5-7.5	6.70
ER200901	9.0-8.0	5.40
ER200951	9.5-8.5	6.70
ER201001	10.0-9.0	5.40
ER201051	10.5-9.5	6.70
ER201101	11.0-10.0	5.40
ER201151	11.5-10.5	6.70
ER201201	12.0-11.0	5.40
ER201251	12.5-11.5	6.70
ER201301	13.0-12.0	5.40
ER201351*	13.5-13.3	15.50
ER201401*	14.0-13.8	15.50
ER201451*	14.5-14.3	15.50
ER201501*	15.0-14.8	15.50
ER201551*	15.5-15.3	15.50
ER201601*	16.0-15.8	15.50

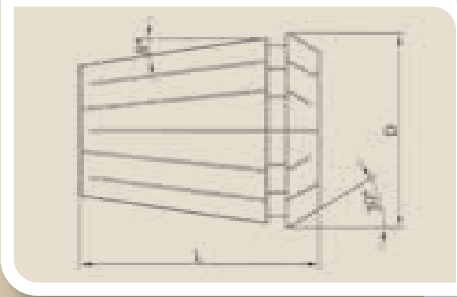
#### ER 20 TOPAC (5 micron)

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER20010T	1.0-0.5	12.20
ER20015T	1.5-1.0	12.20
ER20020T	2.0-1.5	10.20
ER20025T	2.5-2.0	10.20
ER20030T	3.0-2.5	7.70
ER20035T	3.5-2.5	9.00
ER20040T	4.0-3.0	7.70
ER20045T	4.5-3.5	9.00
ER20050T	5.0-4.0	7.70
ER20055T	5.5-4.5	9.00
ER20060T	6.0-5.0	7.70
ER20065T	6.5-5.5	9.00
ER20070T	7.0-6.0	7.70
ER20075T	7.5-6.5	9.00
ER20080T	8.0-7.0	7.70
ER20085T	8.5-7.5	9.00
ER20090T	9.0-8.0	7.70
ER20095T	9.5-8.5	9.00
ER20100T	10.0-9.0	7.70
ER20105T	10.5-9.5	9.00
ER20110T	11.0-10.0	7.70
ER20115T	11.5-10.5	9.00
ER20120T	12.0-11.0	7.70
ER20125T	12.5-11.5	9.00
ER20130T	13.0-12.0	7.70
ER20135T*	13.5-13.3	20.00
ER20140T*	14.0-13.8	20.00
ER20145T*	14.5-14.3	20.00
ER20150T*	15.0-14.8	20.00
ER20155T*	15.5-15.3	20.00
ER20160T*	16.0-15.8	20.00

\* Ø>13 (over Ø13mm dia) collets are shorter than standard. They can only clamp down Ø -0,2mm  
\* Ø>13 (Ø13mm üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,2mm dir.

For Ø1-3mm collets, the clamping capacity is Ø-0,5mm  
Ø1-3mm arası penslerde daralma kapasitesi Ø -0.5 mm dir

Inch sized collets are also available please see its section / İnç ölçü pensler için lütfen ilgili bölüme bakınız.



D	21.0mm
L	31.5mm
CLAMPING RANGE TUTMA ARALIĞI	1.0-16.0mm
COLLAPSING CAPACITY* TUTMA DARALMA KAPASİTESİ*	1.0mm

## ER 20 COLLET SETS ER 20 PENS TAKIMLARI

ER 20 COLLET SETS (Ø2-13mm 12pcs.) / ER 20 Pens Takımları (Ø2-13mm 12 Ad.)

### ER 20 COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ER20SET2	12pcs ER20 collets Class 2 Ø2-13mm in 1.0mm increment in plastic box 12Ad. ER20 pens Class 2 Ø2-13mm arası 1.0mm atlamalı plastik kutuda	55.70

### ER 20 COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ER20SET1	12pcs ER20 collets Class 1 Ø2-13mm in 1.0mm increment in plastic box 12Ad. ER20 pens Class 1 Ø2-13mm arası 1.0mm atlamalı plastik kutuda	71.40

### ER 20 COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ER20SETT	12pcs ER20 collets TOPAC Ø2-13mm in 1.0mm increment in plastic box 12Ad. ER20 pens TOPAC Ø2-13mm arası 1.0mm atlamalı plastik kutuda	99.90



## ER 25 COLLETS ER 25 PENSLER

### DIN 6499 / ISO 15488-B

#### ER 25 CLASS 2

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER250102	1.0-0.5	7.70
ER250152	1.5-1.0	7.70
ER250202	2.0-1.5	5.90
ER250252	2.5-2.0	5.90
ER250302	3.0-2.5	4.40
ER250352	3.5-2.5	5.90
ER250402	4.0-3.0	4.40
ER250452	4.5-3.5	5.90
ER250502	5.0-4.0	4.40
ER250552	5.5-4.5	5.90
ER250602	6.0-5.0	4.40
ER250652	6.5-5.5	5.90
ER250702	7.0-6.0	4.40
ER250752	7.5-6.5	5.90
ER250802	8.0-7.0	4.40
ER250852	8.5-7.5	5.90
ER250902	9.0-8.0	4.40
ER250952	9.5-8.5	5.90
ER251002	10.0-9.0	4.40
ER251052	10.5-9.5	5.90
ER251102	11.0-10.0	4.40
ER251152	11.5-10.5	5.90
ER251202	12.0-11.0	4.40
ER251252	12.5-11.5	5.90
ER251302	13.0-12.0	4.40
ER251352	13.5-12.5	5.90
ER251402	14.0-13.0	4.40
ER251452	14.5-13.5	5.90
ER251502	15.0-14.0	4.40
ER251552	15.5-14.5	5.90
ER251602	16.0-15.0	4.40
ER251652*	16.5-16.3	12.50
ER251702*	17.0-16.8	12.50
ER251752*	17.5-17.3	12.50
ER251802*	18.0-17.8	12.50
ER251852*	18.5-18.3	12.50
ER251902*	19.0-18.8	12.50
ER251952*	19.5-19.3	12.50
ER252002*	20.0-19.8	12.50

#### ER 25 CLASS 1

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER250101	1.0-0.5	9.40
ER250151	1.5-1.0	9.40
ER250201	2.0-1.5	7.40
ER250251	2.5-2.0	7.40
ER250301	3.0-2.5	5.80
ER250351	3.5-2.5	7.30
ER250401	4.0-3.0	5.80
ER250451	4.5-3.5	7.30
ER250501	5.0-4.0	5.80
ER250551	5.5-4.5	7.30
ER250601	6.0-5.0	5.80
ER250651	6.5-5.5	7.30
ER250701	7.0-6.0	5.80
ER250751	7.5-6.5	7.30
ER250801	8.0-7.0	5.80
ER250851	8.5-7.5	7.30
ER250901	9.0-8.0	5.80
ER250951	9.5-8.5	7.30
ER251001	10.0-9.0	5.80
ER251051	10.5-9.5	7.30
ER251101	11.0-10.0	5.80
ER251151	11.5-10.5	7.30
ER251201	12.0-11.0	5.80
ER251251	12.5-11.5	7.30
ER251301	13.0-12.0	5.80
ER251351	13.5-12.5	7.30
ER251401	14.0-13.0	5.80
ER251451	14.5-13.5	7.30
ER251501	15.0-14.0	5.80
ER251551	15.5-14.5	7.30
ER251601	16.0-15.0	5.80
ER251651	16.5-16.3	15.50
ER251701*	17.0-16.8	15.50
ER251751*	17.5-17.3	15.50
ER251801*	18.0-17.8	15.50
ER251851*	18.5-18.3	15.50
ER251901*	19.0-18.8	15.50
ER251951*	19.5-19.3	15.50
ER252001*	20.0-19.8	15.50

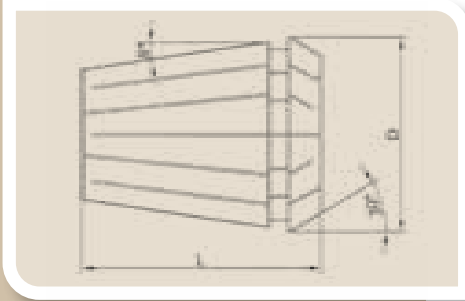
#### ER 25 TOPAC (5 micron)

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER25010T	1.0-0.5	13.60
ER25015T	1.5-1.0	13.60
ER25020T	2.0-1.5	10.60
ER25025T	2.5-2.0	10.60
ER25030T	3.0-2.5	8.10
ER25035T	3.5-2.5	9.60
ER25040T	4.0-3.0	8.10
ER25045T	4.5-3.5	9.60
ER25050T	5.0-4.0	8.10
ER25055T	5.5-4.5	9.60
ER25060T	6.0-5.0	8.10
ER25065T	6.5-5.5	9.60
ER25070T	7.0-6.0	8.10
ER25075T	7.5-6.5	9.60
ER25080T	8.0-7.0	8.10
ER25085T	8.5-7.5	9.60
ER25090T	9.0-8.0	8.10
ER25095T	9.5-8.5	9.60
ER25100T	10.0-9.0	8.10
ER25105T	10.5-9.5	9.60
ER25110T	11.0-10.0	8.10
ER25115T	11.5-10.5	9.60
ER25120T	12.0-11.0	8.10
ER25125T	12.5-11.5	9.60
ER25130T	13.0-12.0	8.10
ER25135T	13.5-12.5	9.60
ER25140T	14.0-13.0	8.10
ER25145T	14.5-13.5	9.60
ER25150T	15.0-14.0	8.10
ER25155T	15.5-14.5	9.60
ER25160T	16.0-15.0	8.10
ER25165T	16.5-16.3	20.00
ER25170T*	17.0-16.8	20.00
ER25175T*	17.5-17.3	20.00
ER25180T*	18.0-17.8	20.00
ER25185T*	18.5-18.3	20.00
ER25190T*	19.0-18.8	20.00
ER25195T*	19.5-19.3	20.00
ER25200T*	20.0-19.8	20.00

\* Ø>16 (over Ø16mm dia) collets are shorter than standard. They can only clamp down Ø -0,2mm  
\* Ø>16 (Ø16mm üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,2mm dir.

For Ø1-3mm collets, the clamping capacity is Ø-0,5mm  
Ø1-3mm arası penslerde daralma kapasitesi Ø -0.5 mm dir

Inch sized collets are also available please see its section / İnç ölçü pensler için lütfen ilgili bölüme bakınız.



D	26.0mm
L	34.0mm
CLAMPING RANGE TUTMA ARALIĞI	1.0-20.0mm
COLLAPSING CAPACITY* TUTMA DARALMA KAPASİTESİ*	1.0mm

## ER 25 COLLET SETS ER 25 PENS TAKIMLARI

ER 25 COLLET SETS (Ø2-16mm 15pcs.) / ER 25 Pens Takımları (Ø2-16mm 15Ad.)

### ER 25 COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ER25SET2	15pcs ER25 collets Class 2 Ø2-16mm in 1.0mm increment in plastic box 15Ad. ER25 pens Class 2 Ø2-16mm arası 1.0mm atlamalı plastik kutuda	76.30

### ER 25 COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ER25SET1	15pcs ER25 collets Class 1 Ø2-16mm in 1.0mm increment in plastic box 15Ad. ER25 pens Class 1 Ø2-16mm arası 1.0mm atlamalı plastik kutuda	97.40

### ER 25 COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ER25SETT	15pcs ER25 collets TOPAC Ø2-16mm in 1.0mm increment in plastic box 15Ad. ER25 pens TOPAC Ø2-16mm arası 1.0mm atlamalı plastik kutuda	132.80



## ER 32 COLLETS ER 32 PENSLER

### DIN 6499 / ISO 15488-B

#### ER 32 CLASS 2

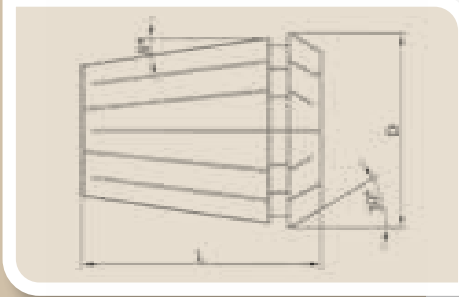
CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER320102	1.0-0.5	9.60
ER320152	1.5-1.0	9.60
ER320202	2.0-1.5	7.90
ER320252	2.5-2.0	7.90
ER320302	3.0-2.5	4.60
ER320352	3.5-2.5	6.40
ER320402	4.0-3.0	4.60
ER320452	4.5-3.5	6.40
ER320502	5.0-4.0	4.60
ER320552	5.5-4.5	6.40
ER320602	6.0-5.0	4.60
ER320652	6.5-5.5	6.40
ER320702	7.0-6.0	4.60
ER320752	7.5-6.5	6.40
ER320802	8.0-7.0	4.60
ER320852	8.5-7.5	6.40
ER320902	9.0-8.0	4.60
ER320952	9.5-8.5	6.40
ER321002	10.0-9.0	4.60
ER321052	10.5-9.5	6.40
ER321102	11.0-10.0	4.60
ER321152	11.5-10.5	6.40
ER321202	12.0-11.0	4.60
ER321252	12.5-11.5	6.40
ER321302	13.0-12.0	4.60
ER321352	13.5-12.5	6.40
ER321402	14.0-13.0	4.60
ER321452	14.5-13.5	6.40
ER321502	15.0-14.0	4.60
ER321552	15.5-14.5	6.40
ER321602	16.0-15.0	4.60
ER321652	16.5-15.5	6.40
ER321702	17.0-16.0	4.60
ER321752	17.5-16.5	6.40
ER321802	18.0-17.0	4.60
ER321852	18.5-17.5	6.40
ER321902	19.0-18.0	4.60
ER321952	19.5-18.5	6.40
ER322002	20.0-19.0	4.60
ER322102*	21.0-20.8	12.50
ER322202*	22.0-21.8	12.50
ER322302*	23.0-22.8	12.50
ER322402*	24.0-23.8	12.50
ER322502*	25.0-24.8	12.50

#### ER 32 CLASS 1

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER320101	1.0-0.5	11.90
ER320151	1.5-1.0	11.90
ER320201	2.0-1.5	10.10
ER320251	2.5-2.0	10.10
ER320301	3.0-2.5	6.20
ER320351	3.5-2.5	8.00
ER320401	4.0-3.0	6.20
ER320451	4.5-3.5	8.00
ER320501	5.0-4.0	6.20
ER320551	5.5-4.5	8.00
ER320601	6.0-5.0	6.20
ER320651	6.5-5.5	8.00
ER320701	7.0-6.0	6.20
ER320751	7.5-6.5	8.00
ER320801	8.0-7.0	6.20
ER320851	8.5-7.5	8.00
ER320901	9.0-8.0	6.20
ER320951	9.5-8.5	8.00
ER321001	10.0-9.0	6.20
ER321051	10.5-9.5	8.00
ER321101	11.0-10.0	6.20
ER321151	11.5-10.5	8.00
ER321201	12.0-11.0	6.20
ER321251	12.5-11.5	8.00
ER321301	13.0-12.0	6.20
ER321351	13.5-12.5	8.00
ER321401	14.0-13.0	6.20
ER321451	14.5-13.5	8.00
ER321501	15.0-14.0	6.20
ER321551	15.5-14.5	8.00
ER321601	16.0-15.0	6.20
ER321651	16.5-15.5	8.00
ER321701	17.0-16.0	6.20
ER321751	17.5-16.5	8.00
ER321801	18.0-17.0	6.20
ER321851	18.5-17.5	8.00
ER321901	19.0-18.0	6.20
ER321951	19.5-18.5	8.00
ER322001	20.0-19.0	6.20
ER322101*	21.0-20.8	15.50
ER322201*	22.0-21.8	15.50
ER322301*	23.0-22.8	15.50
ER322401*	24.0-23.8	15.50
ER322501*	25.0-24.8	15.50

#### ER 32 TOPAC (5 micron)

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER32010T	1.0-0.5	16.00
ER32015T	1.5-1.0	16.00
ER32020T	2.0-1.5	13.20
ER32025T	2.5-2.0	13.20
ER32030T	3.0-2.5	8.50
ER32035T	3.5-2.5	10.30
ER32040T	4.0-3.0	8.50
ER32045T	4.5-3.5	10.30
ER32050T	5.0-4.0	8.50
ER32055T	5.5-4.5	10.30
ER32060T	6.0-5.0	8.50
ER32065T	6.5-5.5	10.30
ER32070T	7.0-6.0	8.50
ER32075T	7.5-6.5	10.30
ER32080T	8.0-7.0	8.50
ER32085T	8.5-7.5	10.30
ER32090T	9.0-8.0	8.50
ER32095T	9.5-8.5	10.30
ER32100T	10.0-9.0	8.50
ER32105T	10.5-9.5	10.30
ER32110T	11.0-10.0	8.50
ER32115T	11.5-10.5	10.30
ER32120T	12.0-11.0	8.50
ER32125T	12.5-11.5	10.30
ER32130T	13.0-12.0	8.50
ER32135T	13.5-12.5	10.30
ER32140T	14.0-13.0	8.50
ER32145T	14.5-13.5	10.30
ER32150T	15.0-14.0	8.50
ER32155T	15.5-14.5	10.30
ER32160T	16.0-15.0	8.50
ER32165T	16.5-15.5	10.30
ER32170T	17.0-16.0	8.50
ER32175T	17.5-16.5	10.30
ER32180T	18.0-17.0	8.50
ER32185T	18.5-17.5	10.30
ER32190T	19.0-18.0	8.50
ER32195T	19.5-18.5	10.30
ER32200T	20.0-19.0	8.50
ER32210T*	21.0-20.8	20.00
ER32220T*	22.0-21.8	20.00
ER32230T*	23.0-22.8	20.00
ER32240T*	24.0-23.8	20.00
ER32250T*	25.0-24.8	20.00



D	33.0mm
L	40.0mm
CLAMPING RANGE TUTMA ARALIĞI	1.0-25.0mm
COLLAPSING CAPACITY* TUTMA DARALMA KAPASİTESİ*	1.0mm

## ER 32 COLLET SETS ER 32 PENS TAKIMLARI

ER 32 COLLET SETS (Ø3-20mm 18pcs.) / ER 32 Pens Takımları (Ø3-20mm 18Ad.)

### ER 32 COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ER32SET2	18pcs ER32 collets Class 2 Ø3-20mm in 1.0mm increment in plastic box 18Ad. ER25 pens Class 2 Ø3-20mm arası 1.0mm atlamalı plastik kutuda	92.80

### ER 32 COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ER32SET1	18pcs ER32 collets Class 1 Ø3-20mm in 1.0mm increment in plastic box 18Ad. ER25 pens Class 1 Ø3-20mm arası 1.0mm atlamalı plastik kutuda	121.60

### ER 32 COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ER32SETT	18pcs ER32 collets TOPAC Ø3-20mm in 1.0mm increment in plastic box 18Ad. ER25 pens TOPAC Ø3-20mm arası 1.0mm atlamalı plastik kutuda	163.00



\* Ø>20 (over Ø20mm dia) collets are shorter than standard. They can only clamp down Ø -0,2mm  
\* Ø>20 (Ø20mm üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,2mm dir.

For Ø1-3mm collets, the clamping capacity is Ø-0,5mm  
Ø1-3mm arası penslerde daralma kapasitesi Ø -0.5 mm dir

Inch sized collets are also available please see its section / İnç ölçü pensler için lütfen ilgili bölüme bakınız.



## ER 40 COLLETS ER 40 PENSLER

### DIN 6499 / ISO 15488-B

#### ER 40 CLASS 2

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER400102	1.0-0.5	12.50
ER400152	1.5-1.0	12.50
ER400202	2.0-1.5	10.20
ER400252	2.5-2.0	10.20
ER400302	3.0-2.5	8.20
ER400352	3.5-2.5	8.20
ER400402	4.0-3.0	5.80
ER400452	4.5-3.5	8.10
ER400502	5.0-4.0	5.80
ER400602	6.0-5.0	5.80
ER400702	7.0-6.0	5.80
ER400802	8.0-7.0	5.80
ER400902	9.0-8.0	5.80
ER401002	10.0-9.0	5.80
ER401102	11.0-10.0	5.80
ER401202	12.0-11.0	5.80
ER401302	13.0-12.0	5.80
ER401402	14.0-13.0	5.80
ER401502	15.0-14.0	5.80
ER401602	16.0-15.0	5.80
ER401702	17.0-16.0	5.80
ER401802	18.0-17.0	5.80
ER401902	19.0-18.0	5.80
ER402002	20.0-19.0	5.80
ER402102	21.0-20.0	5.80
ER402202	22.0-21.0	5.80
ER402302	23.0-22.0	5.80
ER402402	24.0-23.0	5.80
ER402502	25.0-24.0	5.80
ER402602	26.0-25.0	5.80
ER402702*	27.0-26.8	13.50
ER402802*	28.0-27.8	13.50
ER402902*	29.0-28.8	13.50
ER403002*	30.0-29.8	13.50
ER403102*	31.0-30.8	13.50
ER403202*	32.0-31.8	13.50

#### ER 40 CLASS 1

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER400101	1.0-0.5	14.50
ER400151	1.5-1.0	14.50
ER400201	2.0-1.5	12.10
ER400251	2.5-2.0	12.10
ER400301	3.0-2.5	10.20
ER400351	3.5-2.5	10.20
ER400401	4.0-3.0	7.70
ER400451	4.5-3.5	10.10
ER400501	5.0-4.0	7.70
ER400601	6.0-5.0	7.70
ER400701	7.0-6.0	7.70
ER400801	8.0-7.0	7.70
ER400901	9.0-8.0	7.70
ER401001	10.0-9.0	7.70
ER401101	11.0-10.0	7.70
ER401201	12.0-11.0	7.70
ER401301	13.0-12.0	7.70
ER401401	14.0-13.0	7.70
ER401501	15.0-14.0	7.70
ER401601	16.0-15.0	7.70
ER401701	17.0-16.0	7.70
ER401801	18.0-17.0	7.70
ER401901	19.0-18.0	7.70
ER402001	20.0-19.0	7.70
ER402101	21.0-20.0	7.70
ER402201	22.0-21.0	7.70
ER402301	23.0-22.0	7.70
ER402401	24.0-23.0	7.70
ER402501	25.0-24.0	7.70
ER402601	26.0-25.0	7.70
ER402701*	27.0-26.8	16.50
ER402801*	28.0-27.8	16.50
ER402901*	29.0-28.8	16.50
ER403001*	30.0-29.8	16.50
ER403101*	31.0-30.8	16.50
ER403201*	32.0-31.8	16.50

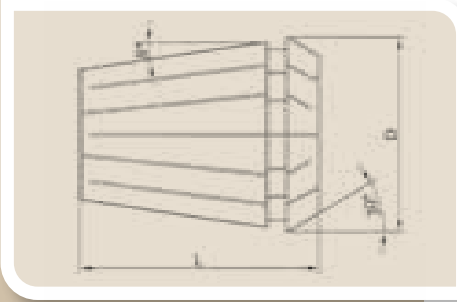
#### ER 40 TOPAC (5 micron)

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER40010T	1.0-0.5	18.50
ER40015T	1.5-1.0	18.50
ER40020T	2.0-1.5	15.30
ER40025T	2.5-2.0	15.30
ER40030T	3.0-2.5	13.00
ER40035T	3.5-2.5	13.00
ER40040T	4.0-3.0	10.00
ER40045T	4.5-3.5	12.50
ER40050T	5.0-4.0	10.00
ER40060T	6.0-5.0	10.00
ER40070T	7.0-6.0	10.00
ER40080T	8.0-7.0	10.00
ER40090T	9.0-8.0	10.00
ER40100T	10.0-9.0	10.00
ER40110T	11.0-10.0	10.00
ER40120T	12.0-11.0	10.00
ER40130T	13.0-12.0	10.00
ER40140T	14.0-13.0	10.00
ER40150T	15.0-14.0	10.00
ER40160T	16.0-15.0	10.00
ER40170T	17.0-16.0	10.00
ER40180T	18.0-17.0	10.00
ER40190T	19.0-18.0	10.00
ER40200T	20.0-19.0	10.00
ER40210T	21.0-20.0	10.00
ER40220T	22.0-21.0	10.00
ER40230T	23.0-22.0	10.00
ER40240T	24.0-23.0	10.00
ER40250T	25.0-24.0	10.00
ER40260T	26.0-25.0	10.00
ER40270T*	27.0-26.8	21.00
ER40280T*	28.0-27.8	21.00
ER40290T*	29.0-28.8	21.00
ER40300T*	30.0-29.8	21.00
ER40310T*	31.0-30.8	21.00
ER40320T*	32.0-31.8	21.00

\* Ø>26 (over Ø26mm dia) collets are shorter than standard. They can only clamp down Ø -0,2mm  
\* Ø>26 (Ø26mm üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,2mm dir.

For Ø1-3mm collets, the clamping capacity is Ø-0,5mm  
Ø1-3mm arası penslerde daralma kapasitesi Ø -0.5 mm dir

Inch sized collets are also available please see its section / İnç ölçü pensler için lütfen ilgili bölüme bakınız.



D	41.0mm
L	46.0mm
CLAMPING RANGE TUTMA ARALIĞI	1.0-32.0mm
CLAMPING STEPS* TUTMA KAPASİTESİ*	1.0mm

## ER 40 COLLET SETS ER 40 PENS TAKIMLARI

ER 40 COLLET SETS (Ø4-26mm 23pcs.) / ER 40 Pens Takımları (Ø4-26mm 23Ad.)

### ER 40 COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ER40SET2	23pcs ER40 collets Class 2 Ø4-26mm in 1.0mm increment in plastic box 23Ad. ER40 pens Class 2 Ø4-26mm arası 1.0mm atlamalı plastik kutuda	153.40

### ER 40 COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ER40SET1	23pcs ER40 collets Class 1 Ø4-26mm in 1.0mm increment in plastic box 23Ad. ER40 pens Class 1 Ø4-26mm arası 1.0mm atlamalı plastik kutuda	197.10

### ER 40 COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ER40SETT	23pcs ER40 collets TOPAC Ø4-26mm in 1.0mm increment in plastic box 23Ad. ER40 pens TOPAC Ø4-26mm arası 1.0mm atlamalı plastik kutuda	250.00



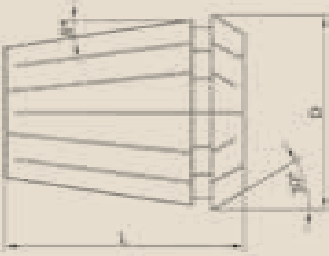
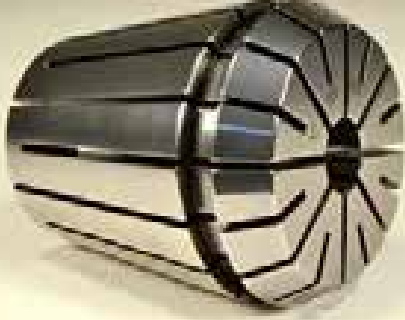
## ER 50 COLLETS ER 50 PENSLER

### DIN 6499 / ISO 15488-B

#### ER 50 CLASS 2

#### ER 50 CLASS 1

#### ER 50 TOPAC (5 micron)



D	52.0mm
L	60.0mm
CLAMPING RANGE TUTMA ARALIĞI	6.0-40.0mm
CLAMPING STEPS* TUTMA KAPASİTESİ*	2.0mm

CODE KOD	clamping dia sıkma çapı Ømm	EURO	CODE KOD	clamping dia sıkma çapı Ømm	EURO	CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER500602	6.0-5.0	22.00	ER500601	6.0-5.0	25.00	ER50060T	6.0-5.0	29.00
ER500702	7.0-6.0	22.00	ER500701	7.0-6.0	25.00	ER50070T	7.0-6.0	29.00
ER500802	8.0-7.0	22.00	ER500801	8.0-7.0	25.00	ER50080T	8.0-7.0	29.00
ER500902	9.0-8.0	22.00	ER500901	9.0-8.0	25.00	ER50090T	9.0-8.0	29.00
ER501002	10.0-9.0	22.00	ER501001	10.0-9.0	25.00	ER50100T	10.0-9.0	29.00
ER501102	11.0-10.0	22.00	ER501101	11.0-10.0	25.00	ER50110T	11.0-10.0	29.00
ER501202	12.0-10.0	17.00	ER501201	12.0-10.0	20.00	ER50120T	12.0-10.0	24.00
ER501302	13.0-11.0	22.00	ER501301	13.0-11.0	25.00	ER50130T	13.0-11.0	29.00
ER501402	14.0-12.0	17.00	ER501401	14.0-12.0	20.00	ER50140T	14.0-12.0	24.00
ER501502	15.0-13.0	22.00	ER501501	15.0-13.0	25.00	ER50150T	15.0-13.0	29.00
ER501602	16.0-14.0	17.00	ER501601	16.0-14.0	20.00	ER50160T	16.0-14.0	24.00
ER501702	17.0-15.0	22.00	ER501701	17.0-15.0	25.00	ER50170T	17.0-15.0	29.00
ER501802	18.0-16.0	17.00	ER501801	18.0-16.0	20.00	ER50180T	18.0-16.0	24.00
ER501902	19.0-17.0	22.00	ER501901	19.0-17.0	25.00	ER50190T	19.0-17.0	29.00
ER502002	20.0-18.0	17.00	ER502001	20.0-18.0	20.00	ER50200T	20.0-18.0	24.00
ER502102	21.0-19.0	22.00	ER502101	21.0-19.0	25.00	ER50210T	21.0-19.0	29.00
ER502202	22.0-20.0	17.00	ER502201	22.0-20.0	20.00	ER50220T	22.0-20.0	24.00
ER502302	23.0-21.0	22.00	ER502301	23.0-21.0	25.00	ER50230T	23.0-21.0	29.00
ER502402	24.0-22.0	17.00	ER502401	24.0-22.0	20.00	ER50240T	24.0-22.0	24.00
ER502502	25.0-23.0	17.00	ER502501	25.0-23.0	20.00	ER50250T	25.0-23.0	24.00
ER502602	26.0-24.0	17.00	ER502601	26.0-24.0	20.00	ER50260T	26.0-24.0	24.00
ER502702	27.0-25.0	22.00	ER502701	27.0-25.0	25.00	ER50270T	27.0-25.0	29.00
ER502802	28.0-26.0	17.00	ER502801	28.0-26.0	20.00	ER50280T	28.0-26.0	24.00
ER502902	29.0-27.0	22.00	ER502901	29.0-27.0	25.00	ER50290T	29.0-27.0	29.00
ER503002	30.0-28.0	17.00	ER503001	30.0-28.0	20.00	ER50300T	30.0-28.0	24.00
ER503102	31.0-29.0	22.00	ER503101	31.0-29.0	25.00	ER50310T	31.0-29.0	29.00
ER503202	32.0-30.0	17.00	ER503201	32.0-30.0	20.00	ER50320T	32.0-30.0	24.00
ER503302	33.0-31.0	22.00	ER503301	33.0-31.0	25.00	ER50330T	33.0-31.0	29.00
ER503402	34.0-32.0	17.00	ER503401	34.0-32.0	20.00	ER50340T	34.0-32.0	24.00
ER503502*	35.0-34.8	30.00	ER503501*	35.0-34.8	33.00	ER50350T*	35.0-34.8	37.00
ER503602*	36.0-35.8	30.00	ER503601*	36.0-35.8	33.00	ER50360T*	36.0-35.8	37.00
ER503702*	37.0-36.8	30.00	ER503701*	37.0-36.8	33.00	ER50370T*	37.0-36.8	37.00
ER503802*	38.0-37.8	30.00	ER503801*	38.0-37.8	33.00	ER50380T*	38.0-37.8	37.00
ER503902*	32.0-31.8	30.00	ER503901*	32.0-31.8	33.00	ER50390T*	32.0-31.8	37.00
ER504002*	40.0-39.8	30.00	ER504001*	40.0-39.8	33.00	ER50400T*	40.0-39.8	37.00

## ER 50 COLLET SETS ER 50 PENS TAKIMLARI

ER 50 COLLET SETS (Ø12-34mm 12pcs.) / ER 50 Pens Takımları (Ø12-34mm 12Ad.)

### ER 50 COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ER50SET2	12pcs ER50 collets Class 2 Ø12-34mm in 2.0mm increment in plastic box 12Ad. ER50 pens Class 2 Ø12-34mm arası 2.0mm atlamalı plastik kutuda	224.00

### ER 50 COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ER50SET1	12pcs ER50 collets Class 1 Ø12-34mm in 2.0mm increment in plastic box 12Ad. ER50 pens Class 1 Ø12-34mm arası 2.0mm atlamalı plastik kutuda	260.00

### ER 50 COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ER50SETT	12pcs ER50 collets TOPAC Ø12-34mm in 2.0mm increment in plastic box 12Ad. ER50 pens TOPAC Ø12-34mm arası 2.0mm atlamalı plastik kutuda	308.00

Normally ER50 sets do not contain 25 mm collet. It can be included in the set instead of 26mm if requested.  
Normalde ER50 pens takımlarında 25mm pens yoktur. Bu pens istendiğinde 26mm nin yerine takıma konulabilir.



\* Ø>35 (over Ø35mm dia) collets are shorter than standard. They can only clamp down Ø -0,2mm  
\* Ø>35 (Ø35mm üstü çap) pens standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,2mm dir.

For Ø6-11mm collets, the clamping capacity is Ø -1.0mm  
Ø6-11mm arası penslerde daralma kapasitesi Ø -1.0 mm dir

Inch sized collets are also available please see its section / İnç ölçü pensler için lütfen ilgili bölüme bakınız.





**ER COLLET SETS WITH CHUCKS**

*BAŞLIKLİ ER PENS TAKIMLARI*

## ER COLLET SET WITH CHUCKS BAŞLIKLİ ER PENS TAKIMLARI



CONTENT - İÇERİĞİ	CODE/KOD	EURO	
<b>10 pcs ER16 collets Class 2 (Ø1-2-3-4-5-6-7-8-9-10) 1 pce ER16 collet chuck 1 pce ER16 spanner in wooden box</b>  <i>10 Ad. ER16 pens Class 2 (Ø1-2-3-4-5-6-7-8-9-10) 1 Ad. ER16 Pens Başlığı 1 Ad. ER16 anahtar ahşap kutuda</i>	BT30ER16S10	92.40	
	BT40ER16S10	91.40	
	DIN30ER16S10	92.40	
	DIN40ER16S10	91.40	
	ISO30ER16S10	92.40	
	ISO40ER16S10	91.40	
	HSK63ER16S10	123.40	
	ER1620130HS10	87.40	
	<b>12pcs ER20 collets Class 2 (Ø2-3-4-5-6-7-8-9-10-11-12-13) 1 pce ER20 collet chuck 1 pce ER20 spanner in wooden box</b>  <i>12 Ad. ER20 Pens Class 2 (Ø2-3-4-5-6-7-8-9-10-11-12-13) 1 Ad. ER20 Pens Başlığı 1 Ad. ER20 anahtar ahşap kutuda</i>	BT40ER20S12	102.90
		DIN40ER20S12	102.90
MT2ER20S12		101.90	
ER2020140HS12		99.90	
ER2025110HS12		99.90	
<b>14pcs ER25 collets Class 2 (Ø3-4-5-6-7-8-9-10-11-12-13-14-15-16) 1 pce ER25 collet chuck 1 pce ER25 spanner in wooden box</b>  <i>14 Ad. ER25 pens Class 2 (Ø3-4-5-6-7-8-9-10-11-12-13-14-15-16) 1 Ad. ER25 Pens Başlığı 1 Ad. ER25 anahtar ahşap kutuda</i>		BT30ER25S14	118.40
	BT40ER25S14	117.40	
	DIN30ER25S14	118.40	
	DIN40ER25S14	117.40	
	ISO30ER25S14	118.40	
	ISO40ER25S14	117.40	
	MT2ER25S14	116.40	
	MT3ER25S14	117.40	
	ER2532110S14	115.40	
	HSK63ER25S14	149.40	
<b>14pcs ER32 collets Class 2 (Ø3-4-5-6-7-8-9-10-11-12-14-16-18-20) 1 pce ER32 collet chuck 1 pce ER32 spanner in wooden box</b>  <i>14 Ad. ER32 pens Class 2 (Ø3-4-5-6-7-8-9-10-11-12-14-16-18-20) 1 Ad. ER32 Pens Başlığı 1 Ad. ER32 anahtar ahşap kutuda</i>	BT30ER32S14	123.70	
	BT40ER32S14	122.70	
	DIN30ER32S14	123.70	
	DIN40ER32S14	122.70	
	ISO30ER32S14	123.70	
	ISO40ER32S14	122.70	
	MT2ER32S14	122.70	
	MT3ER32S14	123.70	
	MT4ER32S14	124.70	
	ER3232110S14	120.70	
ER3240110S14	122.70		
HSK63ER32S14	154.70		

## ER COLLET SET WITH CHUCKS BAŞLIKLİ ER PENS TAKIMLARI

CONTENT - İÇERİĞİ	CODE/KOD	EURO
<b>18pcs ER32 collets Class 2</b> (Ø3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20) <b>1 pce ER32 collet chuck</b> <b>1 pce ER32 spanner in wooden box</b>  <i>18 Ad. ER32 pens Class 2</i> <i>(Ø3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20)</i> <i>1 Ad. ER32 Pens Başlığı</i> <i>1 Ad. ER32 anahtar ahşap kutuda</i>	BT30ER32S18	142.10
	BT40ER32S18	141.10
	DIN30ER32S18	142.10
	DIN40ER32S18	141.10
	ISO30ER32S18	142.10
	ISO40ER32S18	141.10
	MT2ER32S18	141.10
	MT3ER32S18	142.10
	MT4ER32S18	143.10
	ER3232110S18	139.10
	ER3240110S18	141.10
	HSK63ER32S18	173.10
<b>21pcs ER32 collets Class 2</b> (Ø2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-22-25) <b>1 pce ER32 collet chuck</b> <b>1 pce ER32 spanner in wooden box</b>  <i>21Ad. ER32 pens Class 2</i> <i>(Ø2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-22-25)</i> <i>1 pce ER32 Pens Başlığı</i> <i>1 pce ER32 anahtar ahşap kutuda</i>	BT30ER32S21	178.00
	BT40ER32S21	177.00
	DIN30ER32S21	178.00
	DIN40ER32S21	177.00
	ISO30ER32S21	178.00
	ISO40ER32S21	177.00
	MT2ER32S21	177.00
	MT3ER32S21	178.00
	MT4ER32S21	179.00
	ER3232110S21	175.00
	ER3240110S21	177.00
	HSK63ER32S21	209.00
<b>23pcs ER40 collets Class 2</b> (Ø4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26) <b>1 pce ER40 collet chuck</b> <b>1 pce ER40 spanner in wooden box</b>  <i>23 Ad. ER40 pens Class 2</i> <i>(Ø4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26)</i> <i>1 Ad. ER40 Pens Başlığı</i> <i>1 Ad. ER40 anahtar ahşap kutuda</i>	BT40ER40S23	198.00
	DIN40ER40S23	198.00
	ISO40ER40S23	198.00
	MT3ER40S23	198.00
	MT4ER40S23	199.00
	ER4032140S23	203.00
	ER4040140S23	204.00
	HSK63ER40S23	231.00









**COOLANT SEALED ER COLLETS  
TAPPING ER COLLETS  
INCH SIZES ER COLLETS  
DIN 6388 / ISO10897 (OZ) COLLETS**

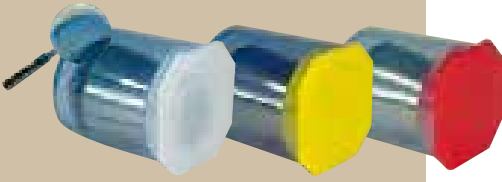
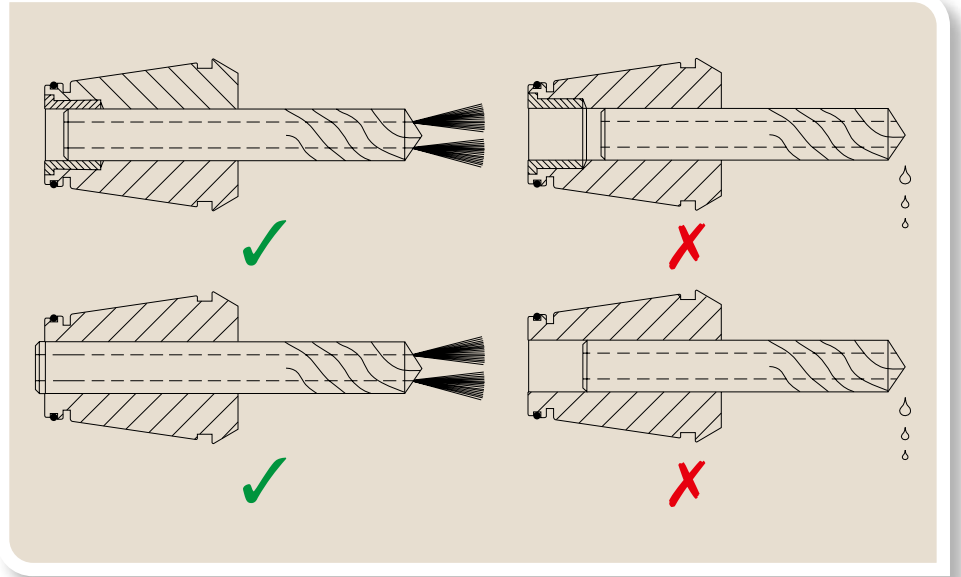
***SIZDIRMAZ ER PENSLER  
ER KILAVUZ PENSLERİ  
İNÇ ÖLÇÜ ER PENSLER  
DIN 6388 / ISO10897 (OZ) PENSLER***

## COOLANT SEALED ER COLLETS (For internal coolant tools) SIZDIRMAZ ER PENSLER (içten soğutmalı takımlar için)



Coolant Sealed performance is only achieved when clamped the nominal diameter. The shank should be inserted till the back end of the collet as shown in the instruction. May collapse down 0.2mm but will have leakage when holding undersize. Suitable for all kinds of ER collet holders. May also be used as standard ER collet for the nominal diameter cutters without internal coolant. Less flexible with harder structure compared with standard ER collets. Other sizes are available on request.

*Sızdırmaz özelliği sadece kendi çapını sıkıldığında geçerlidir.  
Takım sapı, aşağıda görüldüğü gibi, pensin arkasına kadar sokulmalıdır.  
0.2mm daralma yapabilir, ancak alt ölçüyü sıkarken sızdırır.  
Her türlü ER pens tutucusuna uygundur.  
Nominal çapta standart pens olarak ta kullanılabilir.  
Daha sert gövde yapısıyla standart ER penslere göre daha az esnektir.  
Diğer çaplar şipariş yapılabilir.*



**COOLANT SEALED ER COLLETS (For internal coolant tools) DIN 6499 / ISO 15488**  
**SIZDIRMAZ ER PENSLELER (içten soğutmalı takımlar için) Pat. Nr. 2013/00719**

**ERC11 COOLANT SEALED COLLETS**  
**ERC11 SIZDIRMAZ PENSLELER**

**CLASS 2**

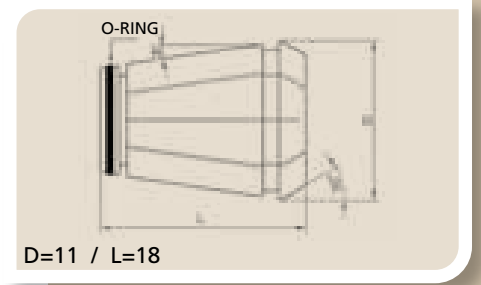
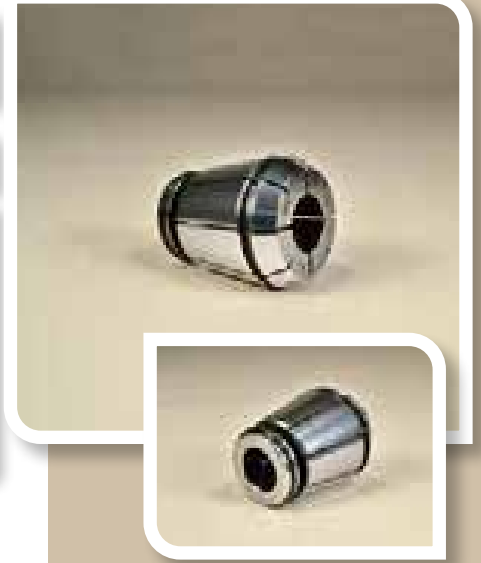
CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC110302	3	15.00
ERC110402	4	15.00
ERC110502	5	15.00
ERC110602	6	15.00

**CLASS 1**

CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC110301	3	16.50
ERC110401	4	16.50
ERC110501	5	16.50
ERC110601	6	16.50

**TOPAC (5 micron)**

CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC11030T	3	19.00
ERC11040T	4	19.00
ERC11050T	5	19.00
ERC11060T	6	19.00



**ERC11 COOLANT SEALED COLLET SETS**  
**ERC11 SIZDIRMAZ PENS TAKIMLARI**

**ERC11 COOLANT SEALED COLLET SET CLASS 2**

CODE/KOD	content - içeriği	EURO
ERC11SET2	4pcs ERC11 Collant sealed collets Class 2 Ø3-6mm in 1.0mm increment in plastic box 4ad. ERC11 sızdırmaz pens Class 2 Ø3-6mm arası 1.0mm atlamalı plastik kutuda	65.00

**ERC11 COOLANT SEALED COLLET SET CLASS 1**

CODE/KOD	content - içeriği	EURO
ERC11SET1	4pcs ERC11 Collant sealed collets Class 1 Ø3-6mm in 1.0mm increment in plastic box 4ad. ERC11 sızdırmaz pens Class 1 Ø3-6mm arası 1.0mm atlamalı plastik kutuda	71.00

**ERC11 COOLANT SEALED COLLET SET TOPAC (5 micron)**

CODE/KOD	content - içeriği	EURO
ERC11SETT	4pcs ERC11 Collant sealed collets TOPAC Ø3-6mm in 1.0mm increment in plastic box 4ad. ERC11 sızdırmaz pens TOPAC Ø3-6mm arası 1.0mm atlamalı plastik kutuda	81.00



**ERC16 COOLANT SEALED COLLETS**  
**ERC16 SIZDIRMAZ PENSLELER**

**CLASS 2**

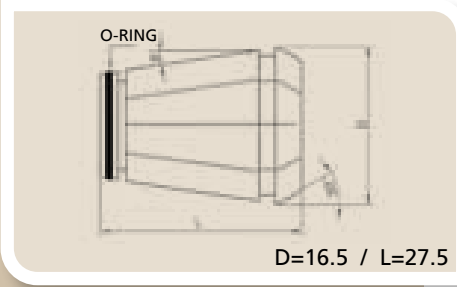
CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC160302	3	10.80
ERC160402	4	10.80
ERC160502	5	10.80
ERC160602	6	10.80
ERC160702	7	10.80
ERC160802	8	10.80
ERC160902	9	10.80
ERC161002	10	10.80

**CLASS 1**

CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC160301	3	12.30
ERC160401	4	12.30
ERC160501	5	12.30
ERC160601	6	12.30
ERC160701	7	12.30
ERC160801	8	12.30
ERC160901	9	12.30
ERC161001	10	12.30

**TOPAC (5 micron)**

CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC16030T	3	15.20
ERC16040T	4	15.20
ERC16050T	5	15.20
ERC16060T	6	15.20
ERC16070T	7	15.20
ERC16080T	8	15.20
ERC16090T	9	15.20
ERC16100T	10	15.20



**ERC16 COOLANT SEALED COLLET SETS**  
**ERC16 SIZDIRMAZ PENS TAKIMLARI**

**ERC16 COOLANT SEALED COLLET SET CLASS 2**

CODE/KOD	content - içeriği	EURO
ERC16SET2	8pcs ERC16 Collant sealed collets Class 2 Ø3-10mm in 1.0mm increment in plastic box 8ad. ERC16 sızdırmaz pens Class 2 Ø3-10mm arası 1.0mm atlamalı plastik kutuda	91.40

**ERC16 COOLANT SEALED COLLET SET CLASS 1**

CODE/KOD	content - içeriği	EURO
ERC16SET1	8pcs ERC16 Collant sealed collets Class 1 Ø3-10mm in 1.0mm increment in plastic box 8ad. ERC16 sızdırmaz pens Class 1 Ø3-10mm arası 1.0mm atlamalı plastik kutuda	103.40

**ERC16 COOLANT SEALED COLLET SET TOPAC (5 micron)**

CODE/KOD	content - içeriği	EURO
ERC16SETT	8pcs ERC16 Collant sealed collets TOPAC Ø3-10mm in 1.0mm increment in plastic box 8ad. ERC16 sızdırmaz pens TOPAC Ø3-10mm arası 1.0mm atlamalı plastik kutuda	126.60

**COOLANT SEALED ER COLLETS (For internal coolant tools) DIN 6499 / ISO 15488**  
**SIZDIRMAZ ER PENSLER (içten soğutmalı takımlar için) Pat. Nr. 2013/00719**

**ERC20 COOLANT SEALED COLLETS**  
**ERC20 SIZDIRMAZ PENSLER**

**CLASS 2**

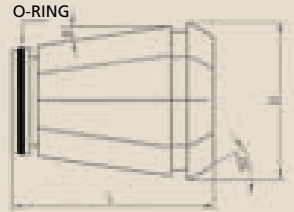
CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC200302	3	10.90
ERC200402	4	10.90
ERC200502	5	10.90
ERC200602	6	10.90
ERC200702	7	10.90
ERC200802	8	10.90
ERC200902	9	10.90
ERC201002	10	10.90
ERC201102	11	10.90
ERC201202	12	10.90
ERC201302	13	10.90

**CLASS 1**

CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC200301	3	12.40
ERC200401	4	12.40
ERC200501	5	12.40
ERC200601	6	12.40
ERC200701	7	12.40
ERC200801	8	12.40
ERC200901	9	12.40
ERC201001	10	12.40
ERC201101	11	12.40
ERC201201	12	12.40
ERC201301	13	12.40

**TOPAC (5 micron)**

CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC20030T	3	15.30
ERC20040T	4	15.30
ERC20050T	5	15.30
ERC20060T	6	15.30
ERC20070T	7	15.30
ERC20080T	8	15.30
ERC20090T	9	15.30
ERC20100T	10	15.30
ERC20110T	11	15.30
ERC20120T	12	15.30
ERC20130T	13	15.30



D=20.5 / L=31.5

**ERC20 COOLANT SEALED COLLET SETS**  
**ERC20 SIZDIRMAZ PENS TAKIMLARI**

**ERC20 COOLANT SEALED COLLET SET CLASS 2**

CODE/KOD	content - içeriği	EURO
ERC20SET2	11pcs ERC20 Collant sealed collets Class 2 Ø3-13mm in 1.0mm increment in plastic box 11ad. ERC20 sızdırmaz pens Class 2 Ø3-13mm arası 1.0mm atlamalı plastik kutuda	124.90

**ERC20 COOLANT SEALED COLLET SET CLASS 1**

CODE/KOD	content - içeriği	EURO
ERC20SET1	11pcs ERC20 Collant sealed collets Class 1 Ø3-13mm in 1.0mm increment in plastic box 11ad. ERC20 sızdırmaz pens Class 1 Ø3-13mm arası 1.0mm atlamalı plastik kutuda	141.40

**ERC20 COOLANT SEALED COLLET SET TOPAC (5 micron)**

CODE/KOD	content - içeriği	EURO
ERC20SETT	11pcs ERC20 Collant sealed collets TOPAC Ø3-13mm in 1.0mm increment in plastic box 11ad. ERC20 sızdırmaz pens TOPAC Ø3-13mm arası 1.0mm atlamalı plastik kutuda	173.30



**ERC25 COOLANT SEALED COLLETS**  
**ERC25 SIZDIRMAZ PENSLELER**

**CLASS 2**

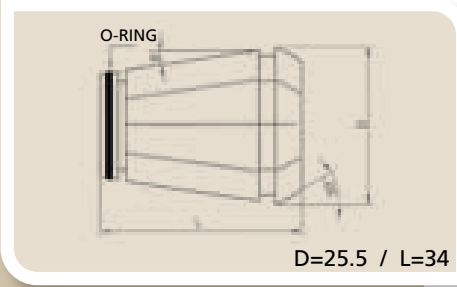
CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC250302	3	11.60
ERC250402	4	11.60
ERC250502	5	11.60
ERC250602	6	11.60
ERC250702	7	11.60
ERC250802	8	11.60
ERC250902	9	11.60
ERC251002	10	11.60
ERC251102	11	11.60
ERC251202	12	11.60
ERC251302	13	11.60
ERC251402	14	11.60
ERC251502	15	11.60
ERC251602	16	11.60

**CLASS 1**

CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC250301	3	13.10
ERC250401	4	13.10
ERC250501	5	13.10
ERC250601	6	13.10
ERC250701	7	13.10
ERC250801	8	13.10
ERC250901	9	13.10
ERC251001	10	13.10
ERC251101	11	13.10
ERC251201	12	13.10
ERC251301	13	13.10
ERC251401	14	13.10
ERC251501	15	13.10
ERC251601	16	13.10

**TOPAC (5 micron)**

CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC25030T	3	16.00
ERC25040T	4	16.00
ERC25050T	5	16.00
ERC25060T	6	16.00
ERC25070T	7	16.00
ERC25080T	8	16.00
ERC25090T	9	16.00
ERC25100T	10	16.00
ERC25110T	11	16.00
ERC25120T	12	16.00
ERC25130T	13	16.00
ERC25140T	14	16.00
ERC25150T	15	16.00
ERC25160T	16	16.00



**ERC25 COOLANT SEALED COLLET SETS**  
**ERC25 SIZDIRMAZ PENS TAKIMLARI**

**ERC25 COOLANT SEALED COLLET SET CLASS 2**

CODE/KOD	content - içeriği	EURO
ERC25SET2	14pcs ERC25 Coolant sealed collets Class 2 Ø3-16mm in 1.0mm increment in plastic box 14Ad. ERC25 sızdırmaz pens Class 2 Ø3-16mm arası 1.0mm atlamalı plastik kutuda	171.20

**ERC25 COOLANT SEALED COLLET SET CLASS 1**

CODE/KOD	content - içeriği	EURO
ERC25SET1	14pcs ERC25 Coolant sealed collets Class 1 Ø3-16mm in 1.0mm increment in plastic box 14Ad. ERC25 sızdırmaz pens Class 1 Ø3-16mm arası 1.0mm atlamalı plastik kutuda	192.20

**ERC25 COOLANT SEALED COLLET SET TOPAC (5 micron)**

CODE/KOD	content - içeriği	EURO
ERC25SETT	14pcs ERC25 Coolant sealed collets TOPAC Ø3-16mm in 1.0mm increment in plastic box 14Ad. ERC25 sızdırmaz pens TOPAC Ø3-16mm arası 1.0mm atlamalı plastik kutuda	232.80

**COOLANT SEALED ER COLLETS (For internal coolant tools) DIN 6499 / ISO 15488**  
**SIZDIRMAZ ER PENSLELER (içten soğutmalı takımlar için) Pat. Nr. 2013/00719**

**ERC32 COOLANT SEALED COLLETS**  
**ERC32 SIZDIRMAZ PENSLELER**

**CLASS 2**

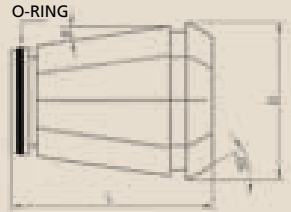
CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC320302	3	12.30
ERC320402	4	12.30
ERC320502	5	12.30
ERC320602	6	12.30
ERC320702	7	12.30
ERC320802	8	12.30
ERC320902	9	12.30
ERC321002	10	12.30
ERC321102	11	12.30
ERC321202	12	12.30
ERC321302	13	12.30
ERC321402	14	12.30
ERC321502	15	12.30
ERC321602	16	12.30
ERC321702	17	12.30
ERC321802	18	12.30
ERC321902	19	12.30
ERC322002	20	12.30

**CLASS 1**

CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC320301	3	13.80
ERC320401	4	13.80
ERC320501	5	13.80
ERC320601	6	13.80
ERC320701	7	13.80
ERC320801	8	13.80
ERC320901	9	13.80
ERC321001	10	13.80
ERC321101	11	13.80
ERC321201	12	13.80
ERC321301	13	13.80
ERC321401	14	13.80
ERC321501	15	13.80
ERC321601	16	13.80
ERC321701	17	13.80
ERC321801	18	13.80
ERC321901	19	13.80
ERC322001	20	13.80

**TOPAC (5 micron)**

CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC32030T	3	16.70
ERC32040T	4	16.70
ERC32050T	5	16.70
ERC32060T	6	16.70
ERC32070T	7	16.70
ERC32080T	8	16.70
ERC32090T	9	16.70
ERC32100T	10	16.70
ERC32110T	11	16.70
ERC32120T	12	16.70
ERC32130T	13	16.70
ERC32140T	14	16.70
ERC32150T	15	16.70
ERC32160T	16	16.70
ERC32170T	17	16.70
ERC32180T	18	16.70
ERC32190T	19	16.70
ERC32200T	20	16.70



D=32.5 / L=40

**ERC32 COOLANT SEALED COLLET SETS**  
**ERC32 SIZDIRMAZ PENS TAKIMLARI**

**ERC32 COOLANT SEALED COLLET SET CLASS 2**

CODE/KOD	content - içeriği	EURO
ERC32SET2	18pcs ERC32 Coolant sealed collets Class 2 Ø3-20mm in 1.0mm increment in plastic box 18Ad. ERC32 sızdırmaz pens Class 2 Ø3-20m arası 1.0mm atlamalı plastik kutuda	231.40

**ERC32 COOLANT SEALED COLLET SET CLASS 1**

CODE/KOD	content - içeriği	EURO
ERC32SET1	18pcs ERC32 Coolant sealed collets Class 1 Ø3-20mm in 1.0mm increment in plastic box 18Ad. ERC32 sızdırmaz pens Class 1 Ø3-20m arası 1.0mm atlamalı plastik kutuda	258.40

**ERC32 COOLANT SEALED COLLET SET TOPAC (5 micron)**

CODE/KOD	content - içeriği	EURO
ERC32SETT	18pcs ERC32 Coolant sealed collets TOPAC Ø3-20mm in 1.0mm increment in plastic box 18Ad. ERC32 sızdırmaz pens TOPAC Ø3-20m arası 1.0mm atlamalı plastik kutuda	310.60





**ERC40 COOLANT SEALED COLLETS**  
**ERC40 SIZDIRMAZ PENSLELER**

**CLASS 2**

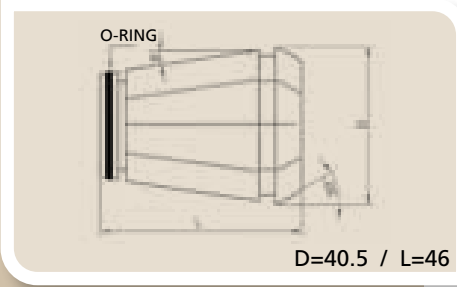
CODE KOD	clamping dia sıkma çapı Ømm	EURO
ERC400302	3	16.30
ERC400402	4	14.30
ERC400502	5	14.30
ERC400602	6	14.30
ERC400702	7	14.30
ERC400802	8	14.30
ERC400902	9	14.30
ERC401002	10	14.30
ERC401102	11	14.30
ERC401202	12	14.30
ERC401302	13	14.30
ERC401402	14	14.30
ERC401502	15	14.30
ERC401602	16	14.30
ERC401702	17	14.30
ERC401802	18	14.30
ERC401902	19	14.30
ERC402002	20	14.30
ERC402102	21	14.30
ERC402202	22	14.30
ERC402302	23	14.30
ERC402402	24	14.30
ERC402502	25	14.30
ERC402602	26	14.30

**CLASS 1**

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ERC400301	3	17.80
ERC400401	4	15.80
ERC400501	5	15.80
ERC400601	6	15.80
ERC400701	7	15.80
ERC400801	8	15.80
ERC400901	9	15.80
ERC401001	10	15.80
ERC401101	11	15.80
ERC401201	12	15.80
ERC401301	13	15.80
ERC401401	14	15.80
ERC401501	15	15.80
ERC401601	16	15.80
ERC401701	17	15.80
ERC401801	18	15.80
ERC401901	19	15.80
ERC402001	20	15.80
ERC402101	21	15.80
ERC402201	22	15.80
ERC402301	23	15.80
ERC402401	24	15.80
ERC402501	25	15.80
ERC402601	26	15.80

**TOPAC (5 micron)**

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ERC40030T	3	20.70
ERC40040T	4	18.70
ERC40050T	5	18.70
ERC40060T	6	18.70
ERC40070T	7	18.70
ERC40080T	8	18.70
ERC40090T	9	18.70
ERC40100T	10	18.70
ERC40110T	11	18.70
ERC40120T	12	18.70
ERC40130T	13	18.70
ERC40140T	14	18.70
ERC40150T	15	18.70
ERC40160T	16	18.70
ERC40170T	17	18.70
ERC40180T	18	18.70
ERC40190T	19	18.70
ERC40200T	20	18.70
ERC40210T	21	18.70
ERC40220T	22	18.70
ERC40230T	23	18.70
ERC40240T	24	18.70
ERC40250T	25	18.70
ERC40260T	26	18.70



**ERC40 COOLANT SEALED COLLET SETS**  
**ERC40 SIZDIRMAZ PENS TAKIMLARI**

**ERC40 COOLANT SEALED COLLET SET CLASS 2**

CODE/KOD	content - içeriği	EURO
ERC40SET2	23pcs ERC40 Coolant sealed collets Class 2 Ø3-25mm in plastic box 23Ad. ERC40 sızdırmaz pens Class 2 Ø3-25m arası plastik kutuda	350.90

**ERC40 COOLANT SEALED COLLET SET CLASS 1**

CODE/KOD	content - içeriği	EURO
ERC40SET1	23pcs ERC40 Coolant sealed collets Class 1 Ø3-25mm in plastic box 23Ad. ERC40 sızdırmaz pens Class 1 Ø3-25m arası plastik kutuda	385.40

**ERC40 COOLANT SEALED COLLET SET TOPAC (5 micron)**

CODE/KOD	content - içeriği	EURO
ERC40SETT	23pcs ERC40 Coolant sealed collets TOPAC Ø3-25mm in plastic box 23Ad. ERC40 sızdırmaz pens TOPAC Ø3-25m arası plastik kutuda	452.10

**COOLANT SEALED ER COLLETS (For internal coolant tools) DIN 6499 / ISO 15488**  
**SIZDIRMAZ ER PENSLELER (içten soğutmalı takımlar için) Pat. Nr. 2012 07739**

**ERC50 COOLANT SEALED COLLETS**  
**ERC50 SIZDIRMAZ PENSLELER**

**CLASS 2**

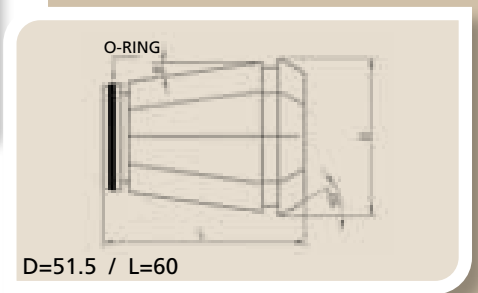
CODE KOD	clamping dia sıkma çapı Ømm	EURO
ERC500602	6	36.00
ERC500802	8	36.00
ERC501002	10	36.00
ERC501202	12	36.00
ERC501402	14	36.00
ERC501602	16	36.00
ERC501802	18	36.00
ERC502002	20	36.00
ERC502502	25	36.00
ERC503202	32	36.00

**CLASS 1**

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ERC500601	6	39.00
ERC500801	8	39.00
ERC501001	10	39.00
ERC501201	12	39.00
ERC501401	14	39.00
ERC501601	16	39.00
ERC501801	18	39.00
ERC502001	20	39.00
ERC502501	25	39.00
ERC503201	32	39.00

**TOPAC (5 micron)**

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ERC50060T	6	43.00
ERC50080T	8	43.00
ERC50100T	10	43.00
ERC50120T	12	43.00
ERC50140T	14	43.00
ERC50160T	16	43.00
ERC50180T	18	43.00
ERC50200T	20	43.00
ERC50250T	25	43.00
ERC50320T	32	43.00



**ERC50 COOLANT SEALED COLLETS SETS**  
**ERC50 SIZDIRMAZ PENS TAKIMLARI**

**ERC50 COOLANT SEALED COLLET SET CLASS 2**

CODE/KOD	content - içeriği	EURO
ERC50SET2	10pcs ERC50 Coolant sealed collets Class 2 Ø6-32mm in plastic box 10Ad. ERC50 sızdırmaz pens Class 2 Ø6-32mm arası plastik kutuda	380.00

**ERC50 COOLANT SEALED COLLET SET CLASS 1**

CODE/KOD	content - içeriği	EURO
ERC50SET1	10pcs ERC50 Coolant sealed collets Class 1 Ø6-32mm in plastic box 10Ad. ERC50 sızdırmaz pens Class 1 Ø6-32mm arası plastik kutuda	410.00

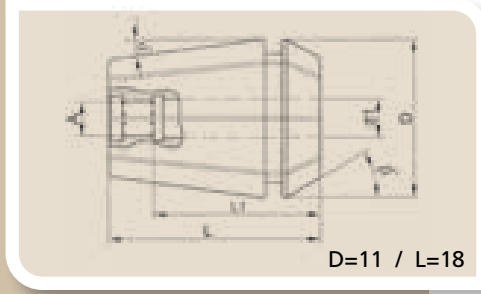
**ERC50 COOLANT SEALED COLLET SET TOPAC (5 micron)**

CODE/KOD	content - içeriği	EURO
ERC50SETT	10pcs ERC50 Coolant sealed collets TOPAC Ø6-32mm in plastic box 10Ad. ERC50 sızdırmaz pens TOPAC Ø6-32mm arası plastik kutuda	450.00



**ERT11**

CODE / KOD	d1	square size kare ölçüsü □ mm	Tap Specs* - Kılavuz detayı*	EURO
ERT11025	2.5	2.1	DIN376 M3.5	13.50
ERT11028	2.8	2.1	DIN371 M2-M2,5 - DIN376 M4	13.50
ERT11035	3.5	2.7	DIN371 M3 - DIN376 M5	13.50
ERT11040	4	3,15/3,2	ISO M4/M5 - JIS M3/M3.5	13.50
ERT11045	4.5	3.4	DIN371 M4 - DIN376 M6	13.50
ERT11050	5	4	ISO M5 - JIS M4	13.50
ERT11055	5.5	4.5	DIN374/376 M7	13.50
ERT11060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	13.50


**ERT11 TAPPING ER COLLET SET / ERT11 KILAVUZ PENSi TAKIMI**

CODE / KOD	content - içeriği	EURO
ERT11SET	8 pcs ERT11 tapping ER collets suitable for taps with shank Ø2.5-6.0mm in plastic box 8 adet ERT11 kılavuz pensleri sapı Ø2.5-6.0mm kılavuzlara uygun plastik kutuda Ø2.5x2.1 - Ø2.8x2.1 - Ø3.5x2.7 - Ø4x3.2 - Ø4.5x3.4 - Ø5x4 Ø5.5x4.5 - Ø6x4.9	113.00



\* Tap specs indicated are some of the suitable sizes only. Tapping ER collets are all made to CL1 (Class 1 - 10 Micron) Precision Standard. They are packed with green cap.

\* Belirtilen kılavuz detaylarında uygun ölçülerin sadece bir kısmı belirtilmiştir. Tüm kılavuz pensleri CL1 (Class 1 - 10 Micron) hassasiyet sınıfına göre üretilmiştir. Ambalajları yeşil kapalıdır.

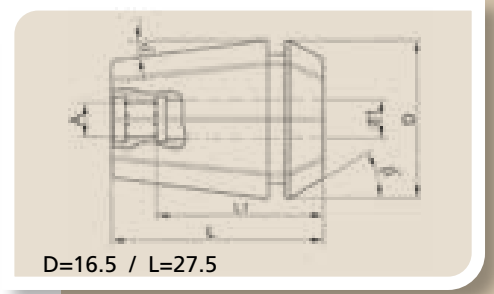
## TAPPING ER COLLETS ER KILAVUZ PENSLERİ

DIN 6499 / ISO 15488

### ERT16

CODE / KOD	d1	square size kare ölçüsü □ mm	Tap Specs* - Klavuz detayı*	EURO
ERT16028	2.8	2.1	DIN371 M2-M2,5 - DIN376 M4	12.80
ERT16035	3.5	2.7	DIN371 M3 - DIN376 M5	12.80
ERT16040	4	3,15/3,2	ISO M4/M5 - JIS M3/M3.5	12.80
ERT16045	4.5	3.4	DIN371 M4 - DIN376 M6	12.80
ERT16050**	5	4	ISO M5 - JIS M4	12.80
ERT16055	5.5	4.5	DIN374/376 M7	12.80
ERT16060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	12.80
ERT16063	6.3	5	DIN374/376 M8	12.80
ERT16070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	12.80
ERT16080	8	6,2/6,3	DIN371 M8 ISO M8 / M10 / 7/16 / 5/16	12.80
ERT16090	9	7.0/7.1	DIN 374/376 M12 ISO M12 / 1/2	12.80

\*\* This item is not included in the set / Bu ürün setin içinde yoktur .



### ERT16 TAPPING ER COLLET SET / ERT16 KILAVUZ PENSi TAKIMI

CODE / KOD	content - içeriği	EURO
ERT16SET	10 pcs ERT16 tapping ER collets suitable for taps with shank Ø2.8-9.0mm in plastic box 10 adet ERT16 kılavuz pensleri sapı Ø2.8-9.0mm kılavuzlara uygun plastik kutuda Ø2.8x2.1 - Ø3.5x2.7 - Ø4x3.2 - Ø4.5x3.4 - Ø5.5x4.5 Ø6x4.9 Ø6.3x5 - Ø7x5.5 - Ø8x6.3 - Ø9x7.1	133.00



\* Tap specs indicated are some of the suitable sizes only.  
Tapping ER collets are all made to CL1 (Class 1 - 10 Micron) Precision Standard.  
They are packed with green cap.

\* Belirtilen kılavuz detaylarında uygun ölçülerin sadece bir kısmı belirtilmiştir.  
Tüm kılavuz pensleri CL1 (Class 1 - 10 Micron) hassasiyet sınıfına göre üretilmiştir.  
Ambalajları yeşil kapalıdır.



**ERT20**

CODE / KOD	d1	square size kare ölçüsü □ mm	Tap Specs* - Kılavuz detayı*	EURO
ERT20035	3.5	2.7	DIN371 M3 - DIN376 M5	13.00
ERT20040	4	3,15/3,2	ISO M4/M5 - JIS M3/M3.5	13.00
ERT20045	4.5	3.4	DIN371 M4 - DIN376 M6	13.00
ERT20050**	5	4	ISO M5 - JIS M4	13.00
ERT20055	5.5	4.5	DIN374/376 M7	13.00
ERT20060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	13.00
ERT20063	6.3	5	ISO M6-M8-1/4-5/16	13.00
ERT20070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	13.00
ERT20080	8	6,2/6,3	DIN371 M8 ISO M8 - M10 - 7/16 - 5/16	13.00
ERT20090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2	13.00
ERT20100	10	8	DIN371 M10 ISO M10 - 3/8	13.00
ERT20110	11	9	DIN 374/376 M14 - 9/16	13.00
ERT20120	12	9	DIN 374/376 M16 - 5/8	13.00

\*\* This item is not included in the set / Bu ürün setin içinde yoktur .

**ERT20 TAPPING ER COLLET SET / ERT20 KILAVUZ PENSi TAKIMI**

CODE / KOD	content - içeriği	EURO
ERT20SET	12 pcs ERT20 tapping ER collets suitable for taps with shank Ø3.5-12.0mm in plastic box 12 adet ERT20 kılavuz pensleri sapı Ø3.5-12.0mm kılavuzlara uygun plastik kutuda Ø3.5x2.7 - Ø4x3.2 - Ø4.5x3.4 - Ø5.5x4.5 Ø6x4.9 - Ø6.3x5 Ø7x5.5 - Ø8x6.3 Ø9x7.1 - Ø10x8 - Ø11x9 - Ø12x9	161.00



\* Tap specs indicated are some of the suitable sizes only. Tapping ER collets are all made to CL1 (Class 1 - 10 Micron) Precision Standard. They are packed with green cap.

\* Belirtilen kılavuz detaylarında uygun ölçülerin sadece bir kısmı belirtilmiştir. Tüm kılavuz pensleri CL1 (Class 1 - 10 Micron) hassasiyet sınıfına göre üretilmiştir. Ambalajları yeşil kapalıdır.

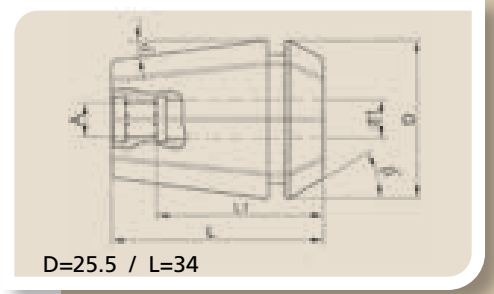
## TAPPING ER COLLETS ER KILAVUZ PENSLERİ

DIN 6499 / ISO 15488

### ERT25

CODE / KOD	d1	square size kare ölçüsü □ mm	Tap Specs* - Klavuz detayı*	EURO
ERT25035	3.5	2.7	DIN371 M3 - DIN376 M5	13.40
ERT25040	4	3.15/3.2	ISO M4/M5 - JIS M3/M3.5	13.40
ERT25045	4.5	3.4	DIN371 M4 - DIN376 M6	13.40
ERT25050	5	4	ISO M5 - JIS M4	13.40
ERT25055	5.5	4.5	DIN374/376 M7	13.40
ERT25060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	13.40
ERT25063	6.3	5	ISO M6-M8-1/4-5/16	13.40
ERT25070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	13.40
ERT25080	8	6.2/6.3	DIN371 M8 ISO M8 - M10 - 7/16 - 5/16	13.40
ERT25090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2	13.40
ERT25100	10	8	DIN371 M10 ISO M10 - 3/8	13.40
ERT25110	11	9	DIN 374/376 M14 - 9/16	13.40
ERT25120	12	9	DIN 374/376 M16 - 5/8	13.40
ERT25125**	12.5	10	ISO M16 - 5/8 JIS M16	13.40
ERT25140	14	11.0/11.2	DIN 374/376 M18 - JIS M18 ISO M18/M20 3/4	13.40
ERT25160	16	12	DIN 374/376 M20	13.40

\*\* This item is not included in the set / Bu ürün setin içinde yoktur .



### ERT25 TAPPING ER COLLET SET / ERT25 KILAVUZ PENSi TAKIMI

CODE / KOD	content - içeriği	EURO
ERT25SET	15 pcs ERT25 tapping ER collets suitable for taps with shank Ø3.5-16.0mm in plastic box 15 adet ERT25 kılavuz pensleri sapı Ø3.5-16.0mm kılavuzlara uygun plastik kutuda Ø3.5x2.7 - Ø4x3.2 - Ø4.5x3.4 - Ø5x4 - Ø5.5x4.5 - Ø6x4.9 Ø6.3x5 - Ø7x5.5 - Ø8x6.3 - Ø9x7.1 - Ø10x8 - Ø11x9 - Ø12x9 Ø14x11.2 - Ø16x12	209.80



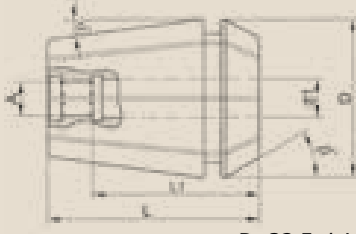
\* Tap specs indicated are some of the suitable sizes only.  
Tapping ER collets are all made to CL1 (Class 1 - 10 Micron) Precision Standard.  
They are packed with green cap.

\* Belirtilen kılavuz detaylarında uygun ölçülerin sadece bir kısmı belirtilmiştir.  
Tüm kılavuz pensleri CL1 (Class 1 - 10 Micron) hassasiyet sınıfına göre üretilmiştir.  
Ambalajları yeşil kapalıdır.



**ERT32**

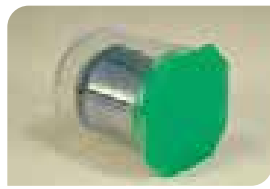
CODE / KOD	d1	square size kare ölçüsü □ mm	Tap Specs* - Klavuz detayı*	EURO
ERT32035	3.5	2.7	DIN371 M3 - DIN376 M5	14.50
ERT32040	4	3.15/3.2	ISO M4/M5 - JIS M3/M3.5	14.50
ERT32045	4.5	3.4	DIN371 M4 - DIN376 M6	14.50
ERT32050	5	4	ISO M5 - JIS M4	14.50
ERT32055	5.5	4.5	DIN374/376 M7	14.50
ERT32060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	14.50
ERT32063	6.3	5	ISO M6-M8-1/4"-5/16"	14.50
ERT32070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	14.50
ERT32080	8	6.2/6.3	DIN371 M8 ISO M8 - M10 - 7/16" - 5/16"	14.50
ERT32090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2"	14.50
ERT32100	10	8	DIN371 M10 ISO M10 - 3/8"	14.50
ERT32110	11	9	DIN 374/376 M14 - 9/16"	14.50
ERT32120	12	9	DIN 374/376 M16 - 5/8"	14.50
ERT32125	12.5	10	ISO M16 - 5/8" JIS M16	14.50
ERT32140	14	11.0/11.2	DIN 374/376 M18 - JIS M18 ISO M18-M20 3/4"	14.50
ERT32160	16	12	DIN 374/376 M20	14.50
ERT32180	18	14.0/14.5	DIN 374/376 M22- M24 - 7/8" ISO M24 - 1"	14.50
ERT32200	20	16	DIN 374/376 M27 - 1" ISO M27-M30 - 1 1/8"	14.50



D=32.5 / L=40

**ERT32 TAPPING ER COLLET SET / ERT32 KILAVUZ PENSi TAKIMI**

CODE / KOD	content - içeriği	EURO
ERT32SET	18 pcs ERT32 tapping ER collets suitable for taps with shank Ø3.5-20.0mm in plastic box 18 adet ERT32 kılavuz pensleri sapı Ø3.5-20.0mm kılavuzlara uygun plastik kutuda Ø3.5x2.7 - Ø4x3.2 - Ø4.5x3.4 - Ø5x4 Ø5.5x4.5 - Ø6x4.9 Ø6.3x5 - Ø7x5.5 Ø8x6.3 - Ø9x7.1 - Ø10x8 - Ø11x9 - Ø12x9 Ø14x11.2 - Ø16x12 - Ø18x14.5 - Ø20x16	271.00



\* Tap specs indicated are some of the suitable sizes only. Tapping ER collets are all made to CL1 (Class 1 - 10 Micron) Precision Standard. They are packed with green cap.

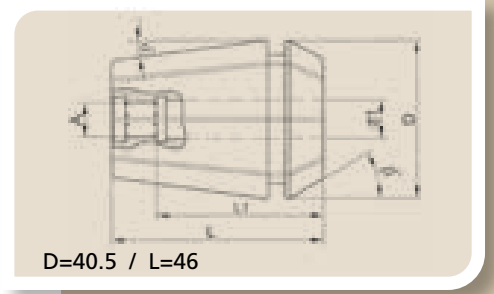
\* Belirtilen kılavuz detaylarında uygun ölçülerin sadece bir kısmı belirtilmiştir. Tüm kılavuz pensleri CL1 (Class 1 - 10 Micron) hassasiyet sınıfına göre üretilmiştir. Ambalajları yeşil kapaklıdır.

## TAPPING ER COLLETS ER KILAVUZ PENSLERİ

DIN 6499 / ISO 15488

### ERT40

CODE / KOD	d1	square size kare ölçüsü □ mm	Tap Specs* - Klavuz detayı*	EURO
ERT40040	4	3.15/3.2	ISO M4/M5 - JIS M3/M3.5	16.60
ERT40045	4.5	3.4	DIN371 M4 - DIN376 M6	16.60
ERT40050	5	4	ISO M5 - JIS M4	16.60
ERT40055	5.5	4.5	DIN371 M4,5/M5/M6 DIN374/376 M8	16.60
ERT40060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	16.60
ERT40063	6.3	5	ISO M6-M8-1/4" -5/16"	16.60
ERT40070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	16.60
ERT40080	8	6.2/6.3	DIN371 M8 ISO M8 - M10 - 7/16" - 5/16"	16.60
ERT40090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2"	16.60
ERT40100	10	8	DIN371 M10 ISO M10 - 3/8"	16.60
ERT40110	11	9	DIN 374/376 M14 - 9/16"	16.60
ERT40120	12	9	DIN 374/376 M16 - 5/8"	16.60
ERT40125	12.5	10	ISO M16 - 5/8" JIS M16	16.60
ERT40140	14	11.0/11.2	DIN 374/376 M18 - JIS M18 ISO M18-M20 3/4"	16.60
ERT40160	16	12	DIN 374/376 M20	16.60
ERT40180	18	14.0/14.5	DIN 374/376 M22- M24 -7/8" ISO M24 - 1"	16.60
ERT40200	20	16	DIN 374/376 M27 - 1" ISO M27-M30 - 1 1/8"	16.60
ERT40220	22	18	DIN 374/376 M30 - 1 1/8"	16.60
ERT40250	25	20	DIN 374/376 M33 - 1 1/4" ISO M36	16.60



### ERT40 TAPPING ER COLLET SET / ERT40 KILAVUZ PENSi TAKIMI

CODE / KOD	content - içeriği	EURO
ERT40SET	19 pcs ERT40 tapping ER collets suitable for taps with shank Ø4.0-25.0mm in plastic box 19 adet ERT40 kılavuz pensleri sapı Ø4.0-25.0mm kılavuzlara uygun plastik kutuda Ø4x3.2 - Ø4.5x3.4 - Ø5x4 - Ø5.5x4.5 - Ø6x4.9 - Ø6.3x5 Ø7x5.5 - Ø8x6.3 - Ø9x7.1 - Ø10x8 - Ø11x9 - Ø12x9 Ø14x11.2 - Ø16x12 - Ø18x14.5 - Ø20x16 - Ø22x18 - Ø25x20	335.40



\* Tap specs indicated are some of the suitable sizes only.  
Tapping ER collets are all made to CL1 (Class 1 - 10 Micron) Precision Standard.  
They are packed with green cap.

\* Belirtilen kılavuz detaylarında uygun ölçülerin sadece bir kısmı belirtilmiştir.  
Tüm kılavuz pensleri CL1 (Class 1 - 10 Micron) hassasiyet sınıfına göre üretilmiştir.  
Ambalajları yeşil kapaklıdır.





**ERT50**

CODE / KOD	d1	square size kare ölçüsü □ mm	Tap Specs* - Klavuz detayı*	EURO
ERT50090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2"	38.00
ERT50100	10	8	DIN371 M10 ISO M10 - 3/8"	38.00
ERT50110	11	9	DIN 374/376 M14 - 9/16"	38.00
ERT50120	12	9	DIN 374/376 M16 - 5/8"	38.00
ERT50140	14	11.0/11.2	DIN 374/376 M18 - JIS M18 ISO M18-M20 3/4"	38.00
ERT50160	16	12	DIN 374/376 M20	38.00
ERT50180	18	14.0/14.5	DIN 374/376 M22- M24 -7/8" ISO M24 - 1"	38.00
ERT50200	20	16	DIN 374/376 M27 - 1" ISO M27-M30 - 1 1/8"	38.00
ERT50220	22	18	DIN 374/376 M30 - 1 1/8"	38.00
ERT50250	25	20	DIN 374/376 M33 - 1 1/4" ISO M36	38.00
ERT50280	28	22	DIN 374/376 M36 - 1 3/8" - 1 1/2"	38.00
ERT50320	32	24	DIN 374/376 M39-M42 - 1 1/2"	38.00

**ERT50 TAPPING ER COLLET SET / ERT50 KILAVUZ PENSi TAKIMI**

CODE / KOD	content - içeriği	EURO
ERT50SET	12 pcs ERT50 tapping ER collets suitable for taps with shank Ø9-32mm in plastic box 12 adet ERT50 klavuz pensleri sapı Ø9-32mm klavuzlara uygun plastik kutuda Ø9x7.1 - Ø10x8 - Ø11x9 - Ø12x9 - Ø14x11.2 - Ø16x12 Ø18x14.5 - Ø20x16 - Ø22x18 - Ø25x20 - Ø28x22 - Ø32x24	476.00

\* Tap specs indicated are some of the suitable sizes only.  
Tapping ER collets are all made to CL1 (Class 1 - 10 Micron) Precision Standard.

\* Belirtilen klavuz detaylarında uygun ölçülerin sadece bir kısmı belirtilmiştir.  
Tüm klavuz pensleri CL1 (Class 1 - 10 Micron) hassasiyet sınıfına göre üretilmiştir.

## ERTC COOLANT SEALED TAPPING COLLETS For internal coolant taps

### ERTC SIZDIRMAZ KILAVUZ PENSLERİ İçten soğutmalı kılavuzlar için

DIN 6499 / ISO 15488 / Pat. Nr. 2012 07739

### ERTC16

CODE / KOD	d1	square size kare ölçüsü □ mm	Tap Specs* - Klavuz detayı*	EURO
ERTC16035	3.5	2.7	DIN371 M3 - DIN376 M5	21.80
ERTC16040	4	3.2	ISO M4/M5 - JIS M3/M3.5	21.80
ERTC16045	4.5	3.4	DIN371 M4 - DIN376 M6	21.80
ERTC16055	5.5	4.5	DIN374/376 M7	21.80
ERTC16060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	21.80
ERTC16070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	21.80
ERTC16080	8	6,2/6,3	DIN371 M8 ISO M8 - M10 - 7/16 - 5/16	21.80
ERTC16090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2"	21.80

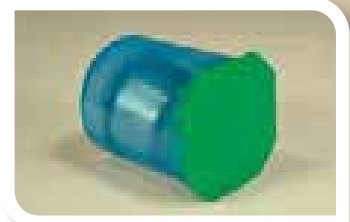
### ERTC20

CODE / KOD	d1	square size kare ölçüsü □ mm	Tap Specs* - Klavuz detayı*	EURO
ERTC20035	3.5	2.7	DIN371 M3 - DIN376 M5	22.00
ERTC20045	4.5	3.4	DIN371 M4 - DIN376 M6	22.00
ERTC20055	5.5	4.5	DIN374/376 M7	22.00
ERTC20060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	22.00
ERTC20070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	22.00
ERTC20080	8	6,2/6,3	DIN371 M8 ISO M8 - M10 - 7/16 - 5/16	22.00
ERTC20090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2	22.00
ERTC20100	10	8	DIN371 M10 ISO M10 - 3/8	22.00
ERTC20110	11	9	DIN 374/376 M14 - 9/16	22.00
ERTC20120	12	9	DIN 374/376 M16 - 5/8	22.00



\* Tap specs indicated are some of the suitable sizes only.  
Coolant sealed Tapping ER collets are all made to CL1 (Class 1 - 10 Micron) Precision Standard  
They are packed with green cap and the body is transparent blue  
Sets are available on request

\* Belirtilen kılavuz detaylarında uygun ölçülerin sadece bir kısmı belirtilmiştir  
Tüm sızdırmaz kılavuz pensleri CL1 (Class 1 - 10 Micron) hassasiyet sınıfına göre üretilmiştir.  
Ambalajlarının kapağı yeşil , gövdesi saydam mavidir.  
Sipariş edildiğinde set yapılabilir.



## ERTC COOLANT SEALED TAPPING COLLETS For internal coolant taps ERTC SIZDIRMAZ KILAVUZ PENSLERİ İçten soğutmalı kılavuzlar için

DIN 6499 / ISO 15488 / Pat. Nr. 2012 07739

### ERTC25

CODE / KOD	d1	square size kare ölçüsü □ mm	Tap Specs* - Klavuz detayı*	EURO
ERTC25035	3.5	2.7	DIN371 M3 - DIN376 M5	22.70
ERTC25045	4.5	3.4	DIN371 M4 - DIN376 M6	22.70
ERTC25055	5.5	4.5	DIN374/376 M7	22.70
ERTC25060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	22.70
ERTC25070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	22.70
ERTC25080	8	6,2/6,3	DIN371 M8 ISO M8 - M10 - 7/16 - 5/16	22.70
ERTC25090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2	22.70
ERTC25100	10	8	DIN371 M10 ISO M10 - 3/8	22.70
ERTC25110	11	9	DIN 374/376 M14 - 9/16	22.70
ERTC25120	12	9	DIN 374/376 M16 - 5/8	22.70
ERTC25140	14	11.0/11.2	DIN 374/376 M18 - JIS M18 ISO M18/M20 3/4	22.70
ERTC25160	16	12	DIN 374/376 M20	22.70

### ERTC32

CODE / KOD	d1	square size kare ölçüsü □ mm	Tap Specs* - Klavuz detayı*	EURO
ERTC32035	3.5	2.7	DIN371 M3 - DIN376 M5	24.00
ERTC32045	4.5	3.4	DIN371 M4 - DIN376 M6	24.00
ERTC32055	5.5	4.5	DIN374/376 M7	24.00
ERTC32060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	24.00
ERTC32070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	24.00
ERTC32080	8	6,2/6,3	DIN371 M8 ISO M8 - M10 - 7/16" - 5/16"	24.00
ERTC32090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2"	24.00
ERTC32100	10	8	DIN371 M10 ISO M10 - 3/8"	24.00
ERTC32110	11	9	DIN 374/376 M14 - 9/16"	24.00
ERTC32120	12	9	DIN 374/376 M16 - 5/8"	24.00
ERTC32140	14	11.0/11.2	DIN 374/376 M18 - JIS M18 ISO M18-M20 3/4"	24.00
ERTC32160	16	12	DIN 374/376 M20	24.00
ERTC32180	18	14.0/14.5	DIN 374/376 M22- M24 - 7/8" ISO M24 - 1"	24.00
ERTC32200	20	16	DIN 374/376 M27 - 1" ISO M27-M30 - 1 1/8"	24.00

\* Tap specs indicated are some of the suitable sizes only.  
Coolant sealed Tapping ER collets are all made to CL1 (Class 1 - 10 Micron) Precision Standard They are packed with green cap and the body is transparent blue  
Sets are available on request

\* Belirtilen kılavuz detaylarında uygun ölçülerin sadece bir kısmı belirtilmiştir  
Tüm sızdırmaz kılavuz pensleri CL1 (Class 1 - 10 Micron) hassasiyet sınıfına göre üretilmiştir.  
Ambalajlarının kapağı yeşil, gövdesi saydam mavidir.  
Sipariş edildiğinde set yapılabilir.



**ERTC COOLANT SEALED TAPPING COLLETS For internal coolant taps**  
**ERTC SIZDIRMAZ KILAVUZ PENSLERİ İçten soğutmalı kılavuzlar için**

DIN 6499 / ISO 15488 / Pat. Nr. 2012 07739

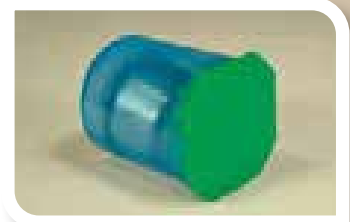
**ERTC40**

CODE / KOD	d1	square size kare ölçüsü □ mm	Tap Specs* - Klavuz detayı*	EURO
ERTC40045	4.5	3.4	DIN371 M4 - DIN376 M6	26.70
ERTC40060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	26.70
ERTC40070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	26.70
ERTC40080	8	6,2/6,3	DIN371 M8 ISO M8 - M10 - 7/16" - 5/16"	26.70
ERTC40090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2"	26.70
ERTC40100	10	8	DIN371 M10 ISO M10 - 3/8"	26.70
ERTC40110	11	9	DIN 374/376 M14 - 9/16"	26.70
ERTC40120	12	9	DIN 374/376 M16 - 5/8"	26.70
ERTC40140	14	11.0/11.2	DIN 374/376 M18 - JIS M18 ISO M18-M20 3/4"	26.70
ERTC40160	16	12	DIN 374/376 M20	26.70
ERTC40180	18	14.0/14.5	DIN 374/376 M22- M24 -7/8" ISO M24 - 1"	26.70
ERTC40200	20	16	DIN 374/376 M27 - 1" ISO M27-M30 - 1 1/8"	26.70
ERTC40220	22	18	DIN 374/376 M30 - 1 1/8"	26.70
ERTC40250	25	20	DIN 374/376 M33 - 1 1/4" ISO M36	26.70



\* Tap specs indicated are some of the suitable sizes only.  
Coolant sealed Tapping ER collets are all made to CL1 (Class 1 - 10 Micron) Precision Standard  
They are packed with green cap and the body is transparent blue  
Sets are available on request

\* Belirtilen kılavuz detaylarında uygun ölçülerin sadece bir kısmı belirtilmiştir  
Tüm sızdırmaz kılavuz pensleri CL1 (Class 1 - 10 Micron) hassasiyet sınıfına göre üretilmiştir.  
Ambalajlarının kapağı yeşil , gövdesi saydam mavidir.  
Sipariş edildiğinde set yapılabilir.



**ER8 INCH SIZED COLLETS / ER8 İNÇ ÖLÇÜ PENSLER**

ER8	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
clamping dia sıkma çapı Ø inch						
1/16	ER0801592	8.50	ER0801591	10.10	ER080159T	14.30
3/32	ER0802382	7.40	ER0802381	8.80	ER080238T	12.00
1/8	ER0803182	5.80	ER0803181	7.10	ER080318T	9.40
5/32	ER0803972	5.80	ER0803971	7.10	ER080397T	9.40
3/16	ER0804762	5.80	ER0804761	7.10	ER080476T	9.40

**ER11 INCH SIZED COLLETS / ER11 İNÇ ÖLÇÜ PENSLER**

ER11	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
clamping dia sıkma çapı Ø inch						
1/16	ER1101592	7.90	ER1101591	9.50	ER110159T	13.70
3/32	ER1102382	6.80	ER1102381	8.20	ER110238T	11.40
1/8	ER1103182	5.10	ER1103181	6.40	ER110318T	8.70
5/32	ER1103972	5.10	ER1103971	6.40	ER110397T	8.70
3/16	ER1104762	5.10	ER1104761	6.40	ER110476T	8.70
7/32	ER1105562	5.10	ER1105561	6.40	ER110556T	8.70
1/4	ER1106352	5.10	ER1106351	6.40	ER110635T	8.70
9/32*	ER1107142	13.20	ER1107141	16.20	ER110714T	20.70
5/16*	ER1107942	13.20	ER1107941	16.20	ER110794T	20.70

\* Ø>1/4" (over Ø1/4" dia) collets are shorter than standard. They can only clamp down Ø -0,008"

\* Ø>1/4" (Ø1/4" üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,008" dir.

**ER11 INCH SIZED COLLET SETS / ER11 İNÇ ÖLÇÜ PENS TAKIMLARI**
**ER11 INCH SIZED COLLET SET CLASS 2**

CODE/KOD	content - içeriği	EURO
ER11SETIN2	9pcs ER11 Inch sized collets Ø1/16-5/16 Class 2 in plastic box 9Ad. ER11 İnç ölçü pens Ø1/16-5/16 Class 2 plastik kutuda 1/16-3/32-1/8-5/32-3/16-7/32-1/4-9/32-5/16	71.60

**ER11 INCH SIZED COLLET SET CLASS 1**

CODE/KOD	content - içeriği	EURO
ER11SETIN1	9pcs ER11 Inch sized collets Ø1/16-5/16 Class 1 in plastic box 9Ad. ER11 İnç ölçü pens Ø1/16-5/16 Class 1 plastik kutuda 1/16-3/32-1/8-5/32-3/16-7/32-1/4-9/32-5/16	87.10

**ER11 INCH SIZED COLLET SET TOPAC (5 micron)**

CODE/KOD	content - içeriği	EURO
ER11SETINT	9pcs ER11 Inch sized collets Ø1/16-5/16 TOPAC in plastic box 9Ad. ER11 İnç ölçü pens Ø1/16-5/16 TOPAC plastik kutuda 1/16-3/32-1/8-5/32-3/16-7/32-1/4-9/32-5/16	115.00

Other inch sized collets are available on request / Diğer inç ölçü pensler siparişe yapılabilir.

## INCH SIZED ER COLLETS İNÇ ÖLÇÜ ER PENSLER

DIN 6499 / ISO 15488-B

### ER16 INCH SIZED COLLETS / ER16 İNÇ ÖLÇÜ PENSLER

ER16	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
clamping dia sıkma çapı Ø inch						
1/16	ER1601592	6.10	ER1601591	7.70	ER160159T	11.90
3/32	ER1602382	5.10	ER1602381	6.50	ER160238T	9.70
1/8	ER1603182	3.90	ER1603181	5.20	ER160318T	7.50
5/32	ER1603972	3.90	ER1603971	5.20	ER160397T	7.50
3/16	ER1604762	3.90	ER1604761	5.20	ER160476T	7.50
7/32	ER1605562	3.90	ER1605561	5.20	ER160556T	7.50
1/4	ER1606352	3.90	ER1606351	5.20	ER160635T	7.50
9/32	ER1607142	3.90	ER1607141	5.20	ER160714T	7.50
5/16	ER1607942	3.90	ER1607941	5.20	ER160794T	7.50
11/32	ER1608732	3.90	ER1608731	5.20	ER160873T	7.50
3/8	ER1609532	3.90	ER1609531	5.20	ER160953T	7.50
13/32*	ER1610322	12.80	ER1610321	15.80	ER161032T	20.30
7/16*	ER1611112	12.80	ER1611111	15.80	ER161111T	20.30
15/32*	ER1611912	12.80	ER1611911	15.80	ER161191T	20.30
1/2*	ER1612702	12.80	ER1612701	15.80	ER161270T	20.30

\* Ø>3/8" (over Ø3/8" dia) collets are shorter than standard. They can only clamp down Ø -0,008"

\* Ø>3/8" (Ø3/8" üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,008" dir.

Other inch sized collets are available on request / Diğer inç ölçü pensler siparişe yapılabilir.



### ER16 INCH SIZED COLLET SETS / ER16 İNÇ ÖLÇÜ PENS TAKIMLARI

#### ER16 INCH SIZED COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ER16SETIN2	10pcs ER16 Inch sized collets Ø1/16-3/8 Class 2 in plastic box 10Ad. ER16 İnce ölçü pens Ø1/16-3/8 Class 2 plastik kutuda 1/16-3/32-1/8-5/32-3/16-7/32-1/4-9/32-5/16-3/8	47.40

#### ER16 INCH SIZED COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ER16SETIN1	10pcs ER16 Inch sized collets Ø1/16-3/8 Class 1 in plastic box 10Ad. ER16 İnce ölçü pens Ø1/16-3/8 Class 1 plastik kutuda 1/16-3/32-1/8-5/32-3/16-7/32-1/4-9/32-5/16-3/8	60.80

#### ER16 INCH SIZED COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ER16SETINT	10pcs ER16 Inch sized collets Ø1/16-3/8 TOPAC in plastic box 10Ad. ER16 İnce ölçü pens Ø1/16-3/8 TOPAC plastik kutuda 1/16-3/32-1/8-5/32-3/16-7/32-1/4-9/32-5/16-3/8	86.60



**ER20 INCH SIZED COLLETS / ER20 İNÇ ÖLÇÜ PENSLER**

ER20	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
clamping dia sıkma çapı Ø inch						
1/16	ER2001592	6.70	ER2001591	8.30	ER200159T	12.50
3/32	ER2002382	5.90	ER2002381	7.30	ER200238T	10.50
1/8	ER2003182	4.40	ER2003181	5.70	ER200318T	8.00
5/32	ER2003972	4.40	ER2003971	5.70	ER200397T	8.00
3/16	ER2004762	4.40	ER2004761	5.70	ER200476T	8.00
7/32	ER2005562	4.40	ER2005561	5.70	ER200556T	8.00
1/4	ER2006352	4.40	ER2006351	5.70	ER200635T	8.00
9/32	ER2007142	4.40	ER2007141	5.70	ER200714T	8.00
5/16	ER2007942	4.40	ER2007941	5.70	ER200794T	8.00
11/32	ER2008732	4.40	ER2008731	5.70	ER200873T	8.00
3/8	ER2009532	4.40	ER2009531	5.70	ER200953T	8.00
13/32	ER2010322	4.40	ER2010321	5.70	ER201032T	8.00
7/16	ER2011112	4.40	ER2011111	5.70	ER201111T	8.00
15/32	ER2011912	4.40	ER2011911	5.70	ER201191T	8.00
1/2	ER2012702	4.40	ER2012701	5.70	ER201270T	8.00
17/32*	ER2013492	12.80	ER2013491	15.80	ER201349T	20.30
9/16*	ER2014292	12.80	ER2014291	15.80	ER201429T	20.30
19/32*	ER2015082	12.80	ER2015081	15.80	ER201508T	20.30
5/8*	ER2015882	12.80	ER2015881	15.80	ER201588T	20.30

\* Ø>1/2" (over Ø1/2" dia) collets are shorter than standard. They can only clamp down Ø -0,008"  
 \* Ø>1/2" (Ø1/2" üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,008" dir.

Other inch sized collets are available on request / Diğer inç ölçü pensler siparişe yapılabilir.

**ER20 INCH SIZED COLLET SETS / ER20 İNÇ ÖLÇÜ PENS TAKIMLARI**
**ER20 INCH SIZED COLLET SET CLASS 2**

CODE/KOD	content - içeriği	EURO
ER20SETIN2	12pcs ER20 Inch sized collets Ø1/16-1/2 Class 2 in plastic box 12Ad. ER20 İnç ölçü pens Ø1/16-1/2 Class 2 plastik kutuda 1/16-3/32-1/8-5/32-3/16-7/32-1/4-9/32-5/16-3/8-7/16-1/2	61.60

**ER20 INCH SIZED COLLET SET CLASS 1**

CODE/KOD	content - içeriği	EURO
ER20SETIN1	12pcs ER20 Inch sized collets Ø1/16-1/2 Class 1 in plastic box 12Ad. ER20 İnç ölçü pens Ø1/16-1/2 Class 1 plastik kutuda 1/16-3/32-1/8-5/32-3/16-7/32-1/4-9/32-5/16-3/8-7/16-1/2	77.60

**ER20 INCH SIZED COLLET SET TOPAC (5 micron)**

CODE/KOD	content - içeriği	EURO
ER20SETINT	12pcs ER20 Inch sized collets Ø1/16-1/2 TOPAC in plastic box 12Ad. ER20 İnç ölçü pens Ø1/16-1/2 TOPAC plastik kutuda 1/16-3/32-1/8-5/32-3/16-7/32-1/4-9/32-5/16-3/8-7/16-1/2	108.00



## INCH SIZED ER COLLETS İNÇ ÖLÇÜ ER PENSLER

DIN 6499 / ISO 15488-B

### ER25 INCH SIZED COLLETS / ER25 İNÇ ÖLÇÜ PENSLER

ER25	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
clamping dia sıkma çapı Ø inch						
1/16	ER2501592	8.00	ER2501591	9.70	ER250159T	13.90
3/32	ER2502382	6.20	ER2502381	7.70	ER250238T	10.90
1/8	ER2503182	4.70	ER2503181	6.10	ER250318T	8.40
5/32	ER2503972	4.70	ER2503971	6.10	ER250397T	8.40
3/16	ER2504762	4.70	ER2504761	6.10	ER250476T	8.40
7/32	ER2505562	4.70	ER2505561	6.10	ER250556T	8.40
1/4	ER2506352	4.70	ER2506351	6.10	ER250635T	8.40
9/32	ER2507142	4.70	ER2507141	6.10	ER250714T	8.40
5/16	ER2507942	4.70	ER2507941	6.10	ER250794T	8.40
11/32	ER2508732	4.70	ER2508731	6.10	ER250873T	8.40
3/8	ER2509532	4.70	ER2509531	6.10	ER250953T	8.40
13/32	ER2510322	4.70	ER2510321	6.10	ER251032T	8.40
7/16	ER2511112	4.70	ER2511111	6.10	ER251111T	8.40
15/32	ER2511912	4.70	ER2511911	6.10	ER251191T	8.40
1/2	ER2512702	4.70	ER2512701	6.10	ER251270T	8.40
17/32	ER2513492	4.70	ER2513491	6.10	ER251349T	8.40
9/16	ER2514292	4.70	ER2514291	6.10	ER251429T	8.40
19/32	ER2515082	4.70	ER2515081	6.10	ER251508T	8.40
5/8	ER2515882	4.70	ER2515881	6.10	ER251588T	8.40
21/32*	ER2516672	12.80	ER2516671	15.80	ER251667T	20.30
11/16*	ER2517462	12.80	ER2517461	15.80	ER251746T	20.30
23/32*	ER2518262	12.80	ER2518261	15.80	ER251826T	20.30
3/4*	ER2519052	12.80	ER2519051	15.80	ER251905T	20.30

\* Ø>5/8" (over Ø5/8" dia) collets are shorter than standard. They can only clamp down Ø -0,008"

\* Ø>5/8" (Ø5/8" üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,008" dir.

### ER25 INCH SIZED COLLET SETS / ER25 İNÇ ÖLÇÜ PENS TAKIMLARI

#### ER25 INCH SIZED COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ER25SETIN2	15pcs ER25 Inch sized collets Ø1/16-5/8 Class 2 in plastic box 15Ad. ER25 İnce ölçü pens Ø1/16-5/8 Class 2 plastik kutuda 1/16-3/32-1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-7/16-1/2-9/16-5/8	84.10

#### ER25 INCH SIZED COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ER25SETIN1	15pcs ER25 Inch sized collets Ø1/16-5/8 Class 1 in plastic box 15Ad. ER25 İnce ölçü pens Ø1/16-5/8 Class 1 plastik kutuda 1/16-3/32-1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-7/16-1/2-9/16-5/8	105.50

#### ER25 INCH SIZED COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ER25SETINT	15pcs ER25 Inch sized collets Ø1/16-5/8 TOPAC in plastic box 15Ad. ER25 İnce ölçü pens Ø1/16-5/8 TOPAC plastik kutuda 1/16-3/32-1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-7/16-1/2-9/16-5/8	142.80



Other inch sized collets are available on request / Diğer inç ölçü pensler siparişe yapılabilir.





**ER32 INCH SIZED COLLETS / ER32 İNÇ ÖLÇÜ PENSLER**

ER32	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
clamping dia sıkma çapı Ø inch						
1/16	ER3201592	9.90	ER3201591	12.20	ER320159T	16.30
3/32	ER3202382	8.20	ER3202381	10.40	ER320238T	13.50
1/8	ER3203182	4.90	ER3203181	6.50	ER320318T	8.80
5/32	ER3203972	4.90	ER3203971	6.50	ER320397T	8.80
3/16	ER3204762	4.90	ER3204761	6.50	ER320476T	8.80
7/32	ER3205562	4.90	ER3205561	6.50	ER320556T	8.80
1/4	ER3206352	4.90	ER3206351	6.50	ER320635T	8.80
9/32	ER3207142	4.90	ER3207141	6.50	ER320714T	8.80
5/16	ER3207942	4.90	ER3207941	6.50	ER320794T	8.80
11/32	ER3208732	4.90	ER3208731	6.50	ER320873T	8.80
3/8	ER3209532	4.90	ER3209531	6.50	ER320953T	8.80
13/32	ER3210322	4.90	ER3210321	6.50	ER321032T	8.80
7/16	ER3211112	4.90	ER3211111	6.50	ER321111T	8.80
15/32	ER3211912	4.90	ER3211911	6.50	ER321191T	8.80
1/2	ER3212702	4.90	ER3212701	6.50	ER321270T	8.80
17/32	ER3213492	4.90	ER3213491	6.50	ER321349T	8.80
9/16	ER3214292	4.90	ER3214291	6.50	ER321429T	8.80
19/32	ER3215082	4.90	ER3215081	6.50	ER321508T	8.80
5/8	ER3215882	4.90	ER3215881	6.50	ER321588T	8.80
21/32	ER3216672	4.90	ER3216671	6.50	ER321667T	8.80
11/16	ER3217462	4.90	ER3217461	6.50	ER321746T	8.80
23/32	ER3218262	4.90	ER3218261	6.50	ER321826T	8.80
3/4	ER3219052	4.90	ER3219051	6.50	ER321905T	8.80
25/32	ER3219842	4.90	ER3219841	6.50	ER321984T	8.80
13/16*	ER3220642	12.80	ER3220641	15.80	ER322064T	20.30
7/8*	ER3222232	12.80	ER3222231	15.80	ER322223T	20.30
15/16*	ER3223812	12.80	ER3223811	15.80	ER322381T	20.30
1*	ER3225402	12.80	ER3225401	15.80	ER322540T	20.30

\* Ø>25/32" (over Ø25/32" dia) collets are shorter than standard. They can only clamp down Ø -0,008"

\* Ø>25/32" (Ø25/32" üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,008" dir.

Other inch sized collets are available on request / Diğer inç ölçü pensler siparişe yapılabilir.

**ER32 INCH SIZED COLLETS SETS / ER32 İNÇ ÖLÇÜ PENS TAKIMLARI**
**ER32 INCH SIZED COLLET SET CLASS 2**

CODE/KOD	content - içeriği	EURO
ER32SETIN2	18pcs ER32 Inch sized collets Ø1/8-3/4 Class 2 in plastic box 18Ad. ER32 İnc ölçü pens Ø1/8-3/4 Class 2 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2 17/32-9/16-5/8-11/16-3/4	98.20

**ER32 INCH SIZED COLLET SET CLASS 1**

CODE/KOD	content - içeriği	EURO
ER32SETIN1	18pcs ER32 Inch sized collets Ø1/8-3/4 Class 1 in plastic box 18Ad. ER32 İnc ölçü pens Ø1/8-3/4 Class 1 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2 17/32-9/16-5/8-11/16-3/4	127.00

**ER32 INCH SIZED COLLET SET TOPAC (5 micron)**

CODE/KOD	content - içeriği	EURO
ER32SETINT	18pcs ER32 Inch sized collets Ø1/8-3/4 TOPAC in plastic box 18Ad. ER32 İnc ölçü pens Ø1/8-3/4 TOPAC plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2 17/32-9/16-5/8-11/16-3/4	168.40



## INCH SIZED ER COLLETS İNÇ ÖLÇÜ ER PENSLER

DIN 6499 / ISO 15488-B

### ER40 INCH SIZED COLLETS / ER40 İNÇ ÖLÇÜ PENSLER

ER40	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
clamping dia sıkma çapı Ø inch						
1/16	ER4001592	13.00	ER4001591	15.00	ER400159T	19.00
3/32	ER4002382	10.60	ER4002381	12.50	ER400238T	15.70
1/8	ER4003182	8.60	ER4003181	10.60	ER400318T	13.40
5/32	ER4003972	6.20	ER4003971	8.10	ER400397T	10.40
3/16	ER4004762	6.20	ER4004761	8.10	ER400476T	10.40
7/32	ER4005562	6.20	ER4005561	8.10	ER400556T	10.40
1/4	ER4006352	6.20	ER4006351	8.10	ER400635T	10.40
9/32	ER4007142	6.20	ER4007141	8.10	ER400714T	10.40
5/16	ER4007942	6.20	ER4007941	8.10	ER400794T	10.40
11/32	ER4008732	6.20	ER4008731	8.10	ER400873T	10.40
3/8	ER4009532	6.20	ER4009531	8.10	ER400953T	10.40
13/32	ER4010322	6.20	ER4010321	8.10	ER401032T	10.40
7/16	ER4011112	6.20	ER4011111	8.10	ER401111T	10.40
15/32	ER4011912	6.20	ER4011911	8.10	ER401191T	10.40
1/2	ER4012702	6.20	ER4012701	8.10	ER401270T	10.40
17/32	ER4013492	6.20	ER4013491	8.10	ER401349T	10.40
9/16	ER4014292	6.20	ER4014291	8.10	ER401429T	10.40
19/32	ER4015082	6.20	ER4015081	8.10	ER401508T	10.40
5/8	ER4015882	6.20	ER4015881	8.10	ER401588T	10.40
21/32	ER4016672	6.20	ER4016671	8.10	ER401667T	10.40
11/16	ER4017462	6.20	ER4017461	8.10	ER401746T	10.40
23/32	ER4018262	6.20	ER4018261	8.10	ER401826T	10.40
3/4	ER4019052	6.20	ER4019051	8.10	ER401905T	10.40
25/32	ER4019842	6.20	ER4019841	8.10	ER401984T	10.40
13/16	ER4020642	6.20	ER4020641	8.10	ER402064T	10.40
7/8	ER4022232	6.20	ER4022231	8.10	ER402223T	10.40
15/16	ER4023812	6.20	ER4023811	8.10	ER402381T	10.40
1"	ER4025402	6.20	ER4025401	8.10	ER402540T	10.40
1-1/8*	ER4028582	13.90	ER4028581	16.90	ER402858T	21.40
1-1/4*	ER4031752	13.90	ER4031751	16.90	ER403175T	21.40



\* Ø>1" (over Ø1" dia) collets are shorter than standard. They can only clamp down Ø -0,008"

\* Ø>1" (Ø1" üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,008" dir.

Other inch sized collets are available on request / Diğer inç ölçü pensler siparişe yapılabilir.

### ER40 INCH SIZED COLLETS SETS / ER40 İNÇ ÖLÇÜ PENS TAKIMLARI

#### ER40 INCH SIZED COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ER40SETIN2	23pcs ER40 Inch sized collets Ø1/8-1" Class 2 in plastic box 23Ad. ER40 inç ölçü pens Ø1/8-1" Class 2 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2-17/32-9/16-19/32-5/8-11/16-3/4-13/16-7/8-15/16-1"	165.00

#### ER40 INCH SIZED COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ER40SETIN1	23pcs ER40 Inch sized collets Ø1/8-1" Class 1 in plastic box 23Ad. ER40 inç ölçü pens Ø1/8-1" Class 1 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2-17/32-9/16-19/32-5/8-11/16-3/4-13/16-7/8-15/16-1"	208.80

#### ER40 INCH SIZED COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ER40SETINT	23pcs ER40 Inch sized collets Ø1/8-1" TOPAC in plastic box 23Ad. ER40 inç ölçü pens Ø1/8-1" TOPAC plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2-17/32-9/16-19/32-5/8-11/16-3/4-13/16-7/8-15/16-1"	262.20



**ER50 INCH SIZED COLLETS / ER50 İNÇ ÖLÇÜ PENSLER**

ER50	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
clamping dia sıkma çapı Ø inch						
1/4	ER5006352	23.00	ER5006351	26.00	ER500635T	30.00
5/16	ER5007942	23.00	ER5007941	26.00	ER500794T	30.00
3/8	ER5009532	23.00	ER5009531	26.00	ER500953T	30.00
7/16	ER5011112	23.00	ER5011111	26.00	ER501111T	30.00
1/2	ER5012702	22.00	ER5012701	25.00	ER501270T	29.00
9/16	ER5014292	22.00	ER5014291	25.00	ER501429T	29.00
5/8	ER5015882	22.00	ER5015881	25.00	ER501588T	29.00
11/16	ER5017462	22.00	ER5017461	25.00	ER501746T	29.00
3/4	ER5019052	22.00	ER5019051	25.00	ER501905T	29.00
13/16	ER5020642	22.00	ER5020641	25.00	ER502064T	29.00
7/8	ER5022232	22.00	ER5022231	25.00	ER502223T	29.00
15/16	ER5023812	22.00	ER5023811	25.00	ER502381T	29.00
1"	ER5025402	22.00	ER5025401	25.00	ER502540T	29.00
1-1/8	ER5028582	22.00	ER5028581	25.00	ER502858T	29.00
1-1/4	ER5031752	22.00	ER5031751	25.00	ER503175T	29.00
1-3/8*	ER5034922	34.00	ER5034921	38.00	ER503492T	42.00
1-1/2*	ER5038102	34.00	ER5038101	38.00	ER503810T	42.00

\* Ø>1-1/4" (over Ø1-1/4" dia) collets are shorter than standard. They can only clamp down Ø -0,008"  
 \* Ø>1-1/4" (Ø1-1/4" üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,008" dir.

Other inch sized collets are available on request / Diğer inç ölçü pensler siparişe yapılabilir.

**ER50 INCH SIZED COLLETS SETS / ER50 İNÇ ÖLÇÜ PENSLER TAKIMLARI**
**ER50 INCH SIZED COLLET SET CLASS 2**

CODE/KOD	content - içeriği	EURO
ER50SETIN2	12pcs ER50 Inch sized collets Ø3/8"-1-1/4" Class 2 in plastic box 12Ad. ER50 İnç ölçü pens Ø3/8"-1-1/4" Class 2 plastik kutuda Ø3/8-1/2-9/16-5/8-11/16-3/4-13/16-7/8-15/16-1"- 1.1/8"-1.1/4"	285.00

**ER50 INCH SIZED COLLET SET CLASS 1**

CODE/KOD	content - içeriği	EURO
ER50SETIN1	12pcs ER50 Inch sized collets Ø3/8"-1-1/4" Class 1 in plastic box 12Ad. ER50 İnç ölçü pens Ø3/8"-1-1/4" Class 1 plastik kutuda Ø3/8-1/2-9/16-5/8-11/16-3/4-13/16-7/8-15/16-1"- 1.1/8"-1.1/4"	321.00

**ER50 INCH SIZED COLLET SET TOPAC (5 micron)**

CODE/KOD	content - içeriği	EURO
ER50SETINT	12pcs ER50 Inch sized collets Ø3/8"-1-1/4" TOPAC in plastic box 12Ad. ER50 İnç ölçü pens Ø3/8"-1-1/4" TOPAC plastik kutuda Ø3/8-1/2-9/16-5/8-11/16-3/4-13/16-7/8-15/16-1"- 1.1/8"-1.1/4"	369.00

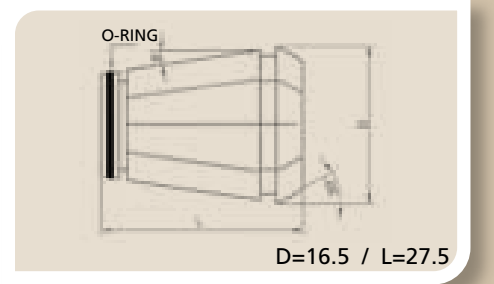


## INCH SIZED COOLANT SEALED ER COLLETS for internal coolant tools İNÇ ÖLÇÜ SIZDIRMAZ PENSLER İçten soğutmalı takımlar için

ERC16 DIN 6499 / ISO 15488

Pat. Nr. 2012 07739

ERC16 clamping dia sıkma çapı Ø inch	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
1/8	ERC1603182	12.00	ERC1603181	13.50	ERC160318T	16.40
5/32	ERC1603972	12.00	ERC1603971	13.50	ERC160397T	16.40
3/16	ERC1604762	12.00	ERC1604761	13.50	ERC160476T	16.40
7/32	ERC1605562	12.00	ERC1605561	13.50	ERC160556T	16.40
1/4	ERC1606352	12.00	ERC1606351	13.50	ERC160635T	16.40
9/32	ERC1607142	12.00	ERC1607141	13.50	ERC160714T	16.40
5/16	ERC1607942	12.00	ERC1607941	13.50	ERC160794T	16.40
11/32	ERC1608732	12.00	ERC1608731	13.50	ERC160873T	16.40
3/8	ERC1609532	12.00	ERC1609531	13.50	ERC160953T	16.40



## ERC16 INCH SIZED COOLANT SEALED COLLETS SETS ERC16 İNÇ ÖLÇÜ SIZDIRMAZ PENS TAKIMLARI

### ERC16 INCH SIZED COOLANT SEALED COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ERC16SETIN2	9pcs ERC16 Inch sized coolant sealed collets Ø1/8-3/8 Class 2 in plastic box 9Ad. ERC16 İnce ölçü pens Ø1/8-3/8 Class 2 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8	113.00

### ERC16 INCH SIZED COOLANT SEALED COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ERC16SETIN1	9pcs ERC16 Inch sized coolant sealed collets Ø1/8-3/8 Class 1 in plastic box 9Ad. ERC16 İnce ölçü pens Ø1/8-3/8 Class 1 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8	126.50

### ERC16 INCH SIZED COOLANT SEALED COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ERC16SETINT	9pcs ERC16 Inch sized coolant sealed collets Ø1/8-3/8 TOPAC in plastic box 9Ad. ERC16 İnce ölçü pens Ø1/8-3/8 TOPAC plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8	152.60



## INCH SIZED COOLANT SEALED ER COLLETS for internal coolant tools İNÇ ÖLÇÜ SIZDIRMAZ PESLER İçten soğutmalı takımalar için

### ERC20 DIN 6499 / ISO 15488

Pat. Nr. 2012 07739

ERC20	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
clamping dia sıkma çapı Ø inch						
1/8	ERC2003182	12.10	ERC2003181	13.60	ERC200318T	16.50
5/32	ERC2003972	12.10	ERC2003971	13.60	ERC200397T	16.50
3/16	ERC2004762	12.10	ERC2004761	13.60	ERC200476T	16.50
7/32	ERC2005562	12.10	ERC2005561	13.60	ERC200556T	16.50
1/4	ERC2006352	12.10	ERC2006351	13.60	ERC200635T	16.50
9/32	ERC2007142	12.10	ERC2007141	13.60	ERC200714T	16.50
5/16	ERC2007942	12.10	ERC2007941	13.60	ERC200794T	16.50
11/32	ERC2008732	12.10	ERC2008731	13.60	ERC200873T	16.50
3/8	ERC2009532	12.10	ERC2009531	13.60	ERC200953T	16.50
13/32	ERC2010322	12.10	ERC2010321	13.60	ERC201032T	16.50
7/16	ERC2011112	12.10	ERC2011111	13.60	ERC201111T	16.50
1/2	ERC2012702	12.10	ERC2012701	13.60	ERC201270T	16.50

O-RING



D=20.5 / L=31.5

### ERC20 INCH SIZED COOLANT SEALED COLLETS SETS ERC20 İNÇ ÖLÇÜ SIZDIRMAZ PENS TAKIMLARI

#### ERC20 INCH SIZED COOLANT SEALED COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ERC20SETIN2	12pcs ERC20 Inch sized coolant sealed collets Ø1/8-1/2 Class 2 in plastic box 12Ad. ERC20 İnce ölçü sızdırma pens Ø1/8-1/2 Class 2 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-1/2	150.20

#### ERC20 INCH SIZED COOLANT SEALED COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ERC20SETIN1	12pcs ERC20 Inch sized coolant sealed collets Ø1/8-1/2 Class 1 in plastic box 12Ad. ERC20 İnce ölçü sızdırma pens Ø1/8-1/2 Class 1 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-1/2	168.20

#### ERC20 INCH SIZED COOLANT SEALED COLLET SET TOPAC (5 micron)

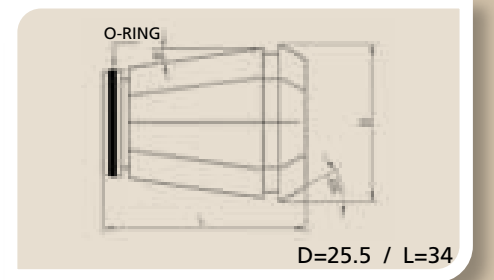
CODE/KOD	content - içeriği	EURO
ERC20SETINT	12pcs ERC20 Inch sized coolant sealed collets Ø1/8-1/2 TOPAC in plastic box 12Ad. ERC20 İnce ölçü sızdırma pens Ø1/8-1/2 TOPAC plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-1/2	203.00

## INCH SIZED COOLANT SEALED ER COLLETS for internal coolant tools İNÇ ÖLÇÜ SIZDIRMAZ PENSLELER İçten soğutmalı takımlar için

ERC25 DIN 6499 / ISO 15488

Pat. Nr. 2012 07739

ERC25 clamping dia sıkma çapı Ø inch	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
1/8	ERC2503182	13.00	ERC2503181	14.50	ERC250318T	17.40
5/32	ERC2503972	13.00	ERC2503971	14.50	ERC250397T	17.40
3/16	ERC2504762	13.00	ERC2504761	14.50	ERC250476T	17.40
7/32	ERC2505562	13.00	ERC2505561	14.50	ERC250556T	17.40
1/4	ERC2506352	13.00	ERC2506351	14.50	ERC250635T	17.40
9/32	ERC2507142	13.00	ERC2507141	14.50	ERC250714T	17.40
5/16	ERC2507942	13.00	ERC2507941	14.50	ERC250794T	17.40
11/32	ERC2508732	13.00	ERC2508731	14.50	ERC250873T	17.40
3/8	ERC2509532	13.00	ERC2509531	14.50	ERC250953T	17.40
13/32	ERC2510322	13.00	ERC2510321	14.50	ERC251032T	17.40
7/16	ERC2511112	13.00	ERC2511111	14.50	ERC251111T	17.40
15/32	ERC2511912	13.00	ERC2511911	14.50	ERC251191T	17.40
1/2	ERC2512702	13.00	ERC2512701	14.50	ERC251270T	17.40
9/16	ERC2514292	13.00	ERC2514291	14.50	ERC251429T	17.40
5/8	ERC2515882	13.00	ERC2515881	14.50	ERC251588T	17.40



## ERC25 INCH SIZED COOLANT SEALED COLLETS SETS ERC25 İNÇ ÖLÇÜ SIZDIRMAZ PENS TAKIMLARI

### ERC25 INCH SIZED COOLANT SEALED COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ERC25SETIN2	15pcs ERC25 Inch sized coolant sealed collets Ø1/8-5/8 Class 2 in plastic box 15Ad. ERC25 İnc ölçü sızdırma pens Ø1/8-5/8 Class 2 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2-9/16-5/8	203.80

### ERC25 INCH SIZED COOLANT SEALED COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ERC25SETIN1	15pcs ERC25 Inch sized coolant sealed collets Ø1/8-5/8 Class 1 in plastic box 15 Ad. ERC25 İnc ölçü sızdırma pens Ø1/8-5/8 Class 1 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2-9/16-5/8	226.30

### ERC25 INCH SIZED COOLANT SEALED COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ERC25SETINT	15pcs ERC25 Inch sized coolant sealed collets Ø1/8-5/8 TOPAC in plastic box 15Ad. ERC25 İnc ölçü sızdırma pens Ø1/8-5/8 TOPAC plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2-9/16-5/8	269.80

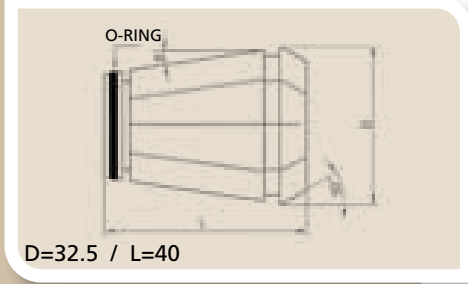


## INCH SIZED COOLANT SEALED ER COLLETS for internal coolant tools İNÇ ÖLÇÜ SIZDIRMAZ PESLER İçten soğutmalı takımlar için

### ERC32 DIN 6499 / ISO 15488

Pat. Nr. 2012 07739

ERC32	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
clamping dia sıkma çapı Ø inch						
1/8	ERC3203182	13.70	ERC3203181	15.20	ERC320318T	18.10
5/32	ERC3203972	13.70	ERC3203971	15.20	ERC320397T	18.10
3/16	ERC3204762	13.70	ERC3204761	15.20	ERC320476T	18.10
7/32	ERC3205562	13.70	ERC3205561	15.20	ERC320556T	18.10
1/4	ERC3206352	13.70	ERC3206351	15.20	ERC320635T	18.10
9/32	ERC3207142	13.70	ERC3207141	15.20	ERC320714T	18.10
5/16	ERC3207942	13.70	ERC3207941	15.20	ERC320794T	18.10
11/32	ERC3208732	13.70	ERC3208731	15.20	ERC320873T	18.10
3/8	ERC3209532	13.70	ERC3209531	15.20	ERC320953T	18.10
13/32	ERC3210322	13.70	ERC3210321	15.20	ERC321032T	18.10
7/16	ERC3211112	13.70	ERC3211111	15.20	ERC321111T	18.10
15/32	ERC3211912	13.70	ERC3211911	15.20	ERC321191T	18.10
1/2	ERC3212702	13.70	ERC3212701	15.20	ERC321270T	18.10
17/32	ERC3213492	13.70	ERC3213491	15.20	ERC321349T	18.10
9/16	ERC3214292	13.70	ERC3214291	15.20	ERC321429T	18.10
5/8	ERC3215882	13.70	ERC3215881	15.20	ERC321588T	18.10
11/16	ERC3217462	13.70	ERC3217461	15.20	ERC321746T	18.10
3/4	ERC3219052	13.70	ERC3219051	15.20	ERC321905T	18.10



### ERC32 INCH SIZED COOLANT SEALED COLLETS SETS ERC32 İNÇ ÖLÇÜ SIZDIRMAZ PENS TAKIMLARI

#### ERC32 INCH SIZED COOLANT SEALED COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ERC32SETIN2	18pcs ERC32 Inch sized coolant sealed collets Ø1/8-3/4 Class 2 in plastic box 18Ad. ERC32 İnc ölçü sızdırma pens Ø1/8-3/4 Class 2 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2-17/32-9/16-5/8-11/16-3/4	256.60

#### ERC32 INCH SIZED COOLANT SEALED COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ERC32SETIN1	18pcs ERC32 Inch sized coolant sealed collets Ø1/8-3/4 Class 2 in plastic box 18Ad. ERC32 İnc ölçü sızdırma pens Ø1/8-3/4 Class 2 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2-17/32-9/16-5/8-11/16-3/4	283.60

#### ERC32 INCH SIZED COOLANT SEALED COLLET SET TOPAC (5 micron)

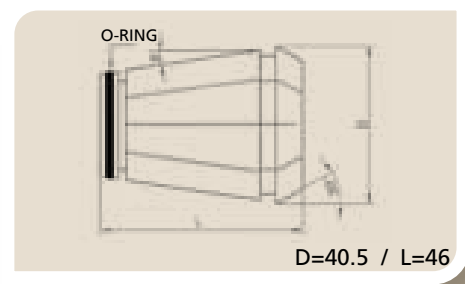
CODE/KOD	content - içeriği	EURO
ERC32SETINT	18pcs ERC32 Inch sized coolant sealed collets Ø1/8-3/4 Class 2 in plastic box 18Ad. ERC32 İnc ölçü sızdırma pens Ø1/8-3/4 Class 2 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2-17/32-9/16-5/8-11/16-3/4	335.80

## INCH SIZED COOLANT SEALED ER COLLETS for internal coolant tools İNÇ ÖLÇÜ SIZDIRMAZ PENSLEER İçten soğutmalı takımalar için

ERC40 DIN 6499 / ISO 15488

Pat. Nr. 2012 07739

ERC40	CLASS 2		CLASS 1		TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
clamping dia sıkma çapı Ø inch						
1/8	ERC4003182	17.70	ERC4003181	19.20	ERC400318T	22.10
5/32	ERC4003972	15.70	ERC4003971	17.20	ERC400397T	20.10
3/16	ERC4004762	15.70	ERC4004761	17.20	ERC400476T	20.10
7/32	ERC4005562	15.70	ERC4005561	17.20	ERC400556T	20.10
1/4	ERC4006352	15.70	ERC4006351	17.20	ERC400635T	20.10
9/32	ERC4007142	15.70	ERC4007141	17.20	ERC400714T	20.10
5/16	ERC4007942	15.70	ERC4007941	17.20	ERC400794T	20.10
11/32	ERC4008732	15.70	ERC4008731	17.20	ERC400873T	20.10
3/8	ERC4009532	15.70	ERC4009531	17.20	ERC400953T	20.10
13/32	ERC4010322	15.70	ERC4010321	17.20	ERC401032T	20.10
7/16	ERC4011112	15.70	ERC4011111	17.20	ERC401111T	20.10
15/32	ERC4011912	15.70	ERC4011911	17.20	ERC401191T	20.10
1/2	ERC4012702	15.70	ERC4012701	17.20	ERC401270T	20.10
17/32	ERC4013492	15.70	ERC4013491	17.20	ERC401349T	20.10
9/16	ERC4014292	15.70	ERC4014291	17.20	ERC401429T	20.10
19/32	ERC4015082	15.70	ERC4015081	17.20	ERC401508T	20.10
5/8	ERC4015882	15.70	ERC4015881	17.20	ERC401588T	20.10
11/16	ERC4017462	15.70	ERC4017461	17.20	ERC401746T	20.10
3/4	ERC4019052	15.70	ERC4019051	17.20	ERC401905T	20.10
13/16	ERC4020642	15.70	ERC4020641	17.20	ERC402064T	20.10
7/8	ERC4022232	15.70	ERC4022231	17.20	ERC402223T	20.10
15/16	ERC4023812	15.70	ERC4023811	17.20	ERC402381T	20.10
1"	ERC4025402	15.70	ERC4025401	17.20	ERC402540T	20.10



### ERC40 INCH SIZED COOLANT SEALED COLLETS SETS ERC40 İNÇ ÖLÇÜ SIZDIRMAZ PENS TAKIMLARI

#### ERC40 INCH SIZED COOLANT SEALED COLLET SET CLASS 2

CODE/KOD	content - içeriği	EURO
ERC40SETIN2	23pcs ERC40 Inch sized coolant sealed collets Ø1/8-1" Class 2 in plastic box 23Ad. ERC40 İnce ölçü sızdırma pens Ø1/8-1" Class 2 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2-17/32-9/16-19/32-5/8-11/16-3/4-13/16-7/8-15/16-1"	383.10

#### ERC40 INCH SIZED COOLANT SEALED COLLET SET CLASS 1

CODE/KOD	content - içeriği	EURO
ERC40SETIN1	23pcs ERC40 Inch sized coolant sealed collets Ø1/8-1" Class 1 in plastic box 23Ad. ERC40 İnce ölçü sızdırma pens Ø1/8-1" Class 1 plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2-17/32-9/16-19/32-5/8-11/16-3/4-13/16-7/8-15/16-1"	427.60

#### ERC40 INCH SIZED COOLANT SEALED COLLET SET TOPAC (5 micron)

CODE/KOD	content - içeriği	EURO
ERC40SETINT	23pcs ERC40 Inch sized coolant sealed collets Ø1/8-1" TOPAC in plastic box 23Ad. ERC40 İnce ölçü sızdırma pens Ø1/8-1" TOPAC plastik kutuda 1/8-5/32-3/16-7/32-1/4-9/32-5/16-11/32-3/8-13/32-7/16-15/32-1/2-17/32-9/16-19/32-5/8-11/16-3/4-13/16-7/8-15/16-1"	484.30





## INCH SIZED TAPPING ER COLLETS İNÇ ÖLÇÜ ER KILAVUZ PENSLERİ

### ERT16 (INCH SIZED / İNÇ ÖLÇÜ)

D=16,5mm / L=27,5mm

CODE / KOD	d1 mm (inch)	Square size kare ölçüsü □ mm (inch)	Tap Specs - Klavuz detayı	EURO
ERT16IN0358	3,58 (0.141")	2,79 (0.110")	0-6"	12.80
ERT16IN0427	4,27 (0.168")	3,33 (0.131")	#8	12.80
ERT16IN0493	4,93 (0.194")	3,86 (0.152")	#10	12.80
ERT16IN0559	5,59 (0.220")	4,12 (0.162")	#12	12.80
ERT16IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	12.80
ERT16IN0808	8,08 (0.318")	6,05 (0.238"),	5/16"	12.80

### ERT20 (INCH SIZED / İNÇ ÖLÇÜ)

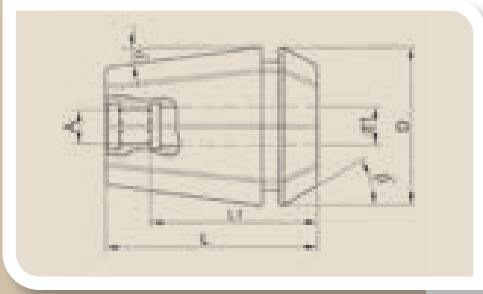
D=20,5mm / L=31,5mm

CODE / KOD	d1 mm (inch)	Square size kare ölçüsü □ mm (inch)	Tap Specs - Klavuz detayı	EURO
ERT20IN0358	3,58 (0.141")	2,79 (0.110")	0-6"	13.00
ERT20IN0427	4,27 (0.168")	3,33 (0.131")	#8	13.00
ERT20IN0493	4,93 (0.194")	3,86 (0.152")	#10	13.00
ERT20IN0559	5,59 (0.220")	4,12 (0.162")	#12	13.00
ERT20IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	13.00
ERT20IN0808	8,08 (0.318")	6,05 (0.238"),	5/16"	13.00
ERT20IN0968	9.68 (0.381")	7.26 (0.238")	3/8"	13.00
ERT20IN0820	8.20 (0.323")	6.15 (0.242")	7/16"	13.00
ERT20IN0932	9.32 (0.367")	6.99 (0.275")	1/2"	13.00

### ERT25 (INCH SIZED / İNÇ ÖLÇÜ)

D=25,5mm / L=34mm

CODE / KOD	d1 mm (inch)	Square size kare ölçüsü □ mm (inch)	Tap Specs - Klavuz detayı	EURO
ERT25IN0358	3,58 (0.141")	2,79 (0.110")	0-6"	13.40
ERT25IN0427	4,27 (0.168")	3,33 (0.131")	#8	13.40
ERT25IN0493	4,93 (0.194")	3,86 (0.152")	#10	13.40
ERT25IN0559	5,59 (0.220")	4,12 (0.162")	#12	13.40
ERT25IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	13.40
ERT25IN0808	8,08 (0.318")	6,05 (0.238"),	5/16"	13.40
ERT25IN0968	9.68 (0.381")	7.26 (0.238")	3/8"	13.40
ERT25IN0820	8.20 (0.323")	6.15 (0.242")	7/16"	13.40
ERT25IN0932	9.32 (0.367")	6.99 (0.275")	1/2"	13.40
ERT25IN1090	10.90 (0.429")	8.18 (0.322")	9/16"	13.40
ERT25IN1219	12.19 (0.480")	9.14 (0.360")	5/8"	13.40
ERT25IN0793	7.93 (0.312")	5.94 (0.234")	1/8" pipe ss	13.40
ERT25IN1113	11.13 (0.438")	8.33 (0.328")	1/8" pipe ls	13.40

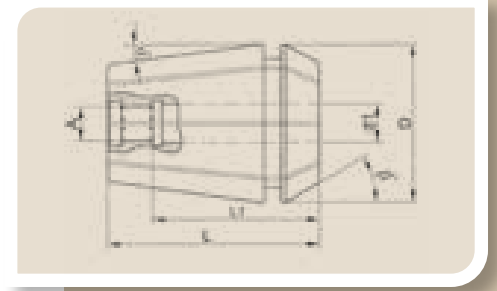


## INCH SIZED TAPPING ER COLLETS İNÇ ÖLÇÜ ER KILAVUZ PENSLERİ

### ERT32 (INCH SIZED / İNÇ ÖLÇÜ)

D=32,5mm / L=40mm

CODE / KOD	d1 mm (inch)	Square size kare ölçüsü □ mm (inch)	Tap Specs - Klavuz detayı	EURO
ERT32IN0358	3,58 (0.141")	2,79 (0.110")	0-6"	14.50
ERT32IN0427	4,27 (0.168")	3,33 (0.131")	#8	14.50
ERT32IN0493	4,93 (0.194")	3,86 (0.152")	#10	14.50
ERT32IN0559	5,59 (0.220")	4,12 (0.162")	#12	14.50
ERT32IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	14.50
ERT32IN0808	8,08 (0.318")	6,05 (0.238")	5/16"	14.50
ERT32IN0968	9,68 (0.381")	7,26 (0.238")	3/8"	14.50
ERT32IN0820	8,20 (0.323")	6,15 (0.242")	7/16"	14.50
ERT32IN0932	9,32 (0.367")	6,99 (0.275")	1/2"	14.50
ERT32IN1090	10,90 (0.429")	8,18 (0.322")	9/16"	14.50
ERT32IN1219	12,19 (0.480")	9,14 (0.360")	5/8"	14.50
ERT32IN1499	14,99 (0.590")	11,23 (0.447")	3/4"	14.50
ERT32IN0793	7,93 (0.312")	5,94 (0.234")	1/8" pipe ss	14.50
ERT32IN1113	11,13 (0.438")	8,33 (0.328")	1/8" pipe ls	14.50
ERT32IN1428	14,28 (0.562")	10,69 (0.421")	1/4" pipe	14.50



### ERT40 (INCH SIZED / İNÇ ÖLÇÜ)

D=40,5mm / L=46mm

CODE / KOD	d1 mm (inch)	Square size kare ölçüsü □ mm (inch)	Tap Specs - Klavuz detayı	EURO
ERT40IN0358	3,58 (0.141")	2,79 (0.110")	0-6"	16.60
ERT40IN0427	4,27 (0.168")	3,33 (0.131")	#8	16.60
ERT40IN0493	4,93 (0.194")	3,86 (0.152")	#10	16.60
ERT40IN0559	5,59 (0.220")	4,12 (0.162")	#12	16.60
ERT40IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	16.60
ERT40IN0808	8,08 (0.318")	6,05 (0.238")	5/16"	16.60
ERT40IN0968	9,68 (0.381")	7,26 (0.238")	3/8"	16.60
ERT40IN0820	8,20 (0.323")	6,15 (0.242")	7/16"	16.60
ERT40IN0932	9,32 (0.367")	6,99 (0.275")	1/2"	16.60
ERT40IN1090	10,90 (0.429")	8,18 (0.322")	9/16"	16.60
ERT40IN1219	12,19 (0.480")	9,14 (0.360")	5/8"	16.60
ERT40IN1499	14,99 (0.590")	11,23 (0.447")	3/4"	16.60
ERT40IN1770	17,70 (0.697")	13,28 (0.523")	7/8"	16.60
ERT40IN2032	20,32 (0.800")	15,24 (0.600")	1"	16.60
ERT40IN0793	7,93 (0.312")	5,94 (0.234")	1/8" pipe ss	16.60
ERT40IN1113	11,13 (0.438")	8,33 (0.328")	1/8" pipe ls	16.60
ERT40IN1428	14,28 (0.562")	10,69 (0.421")	1/4" pipe	16.60
ERT40IN1778	17,78 (0.700")	13,49 (0.531")	3/8" pipe	16.60
ERT40IN1745	17,45 (0.687")	13,08 (0.515")	1/2" pipe	16.60



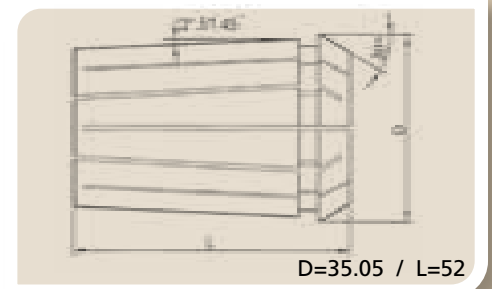


**DIN 6388 / ISO 10897 (OZ) COLLETS  
REDUCTION COLLETS**

***DIN 6388 / ISO 10897 (OZ) PENSLER  
REDÜKSİYON PENSLERİ***

## DIN 6388 B-25 / ISO 10897-B (OZ25) 462E COLLETS / PENSLER

OZ25	DIN 6388 / ISO10897-B (OZ25) CLASS 2		DIN 6388 / ISO10897-B (OZ25) CLASS 1		DIN 6388 / ISO10897-B (OZ25) TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
clamping dia sıkma çapı						
2.0-1.5	OZ250202	12.00	OZ250201	13.40	OZ25020T	15.60
2.5-2.0	OZ250252	12.00	OZ250251	13.40	OZ25025T	15.60
3.0-2.5	OZ250302	11.40	OZ250301	12.70	OZ25030T	14.90
1/8" (3.175)	OZ2503182	11.40	OZ2503181	12.70	OZ250318T	14.90
3.5-3.0	OZ250352	11.40	OZ250351	12.70	OZ25035T	14.90
4.0-3.5	OZ250402	8.40	OZ250401	9.80	OZ25040T	12.10
4.5-4.0	OZ250452	10.40	OZ250451	11.80	OZ25045T	14.10
5.0-4.5	OZ250502	8.40	OZ250501	9.80	OZ25050T	12.10
5.5-5.0	OZ250552	10.40	OZ250551	11.80	OZ25055T	14.10
6.0-5.5	OZ250602	8.40	OZ250601	9.80	OZ25060T	12.10
1/4" (6.35)	OZ2506352	10.40	OZ2506351	11.80	OZ250635T	14.10
6.5-6.0	OZ250652	10.40	OZ250651	11.80	OZ25065T	14.10
7.0-6.5	OZ250702	8.40	OZ250701	9.80	OZ25070T	12.10
7.5-7.0	OZ250752	10.40	OZ250751	11.80	OZ25075T	14.10
8.0-7.5	OZ250802	8.40	OZ250801	9.80	OZ25080T	12.10
8.5-8.0	OZ250852	10.40	OZ250851	11.80	OZ25085T	14.10
9.0-8.5	OZ250902	8.40	OZ250901	9.80	OZ25090T	12.10
9.5-9.0	OZ250952	10.40	OZ250951	11.80	OZ25095T	14.10
3/8" (9.53)	OZ2509532	10.40	OZ2509531	11.80	OZ250953T	14.10
10.0-9.5	OZ251002	8.40	OZ251001	9.80	OZ25100T	12.10
10.5-10.0	OZ251052	10.40	OZ251051	11.80	OZ25105T	14.10
11.0-10.5	OZ251102	8.40	OZ251101	9.80	OZ25110T	12.10
11.5-11.0	OZ251152	10.40	OZ251151	11.80	OZ25115T	14.10
12.0-11.5	OZ251202	8.40	OZ251201	9.80	OZ25120T	12.10
12.5-12.0	OZ251252	10.40	OZ251251	11.80	OZ25125T	14.10
1/2" (12.70)	OZ2512702	10.40	OZ2512701	11.80	OZ251270T	14.10
13.0-12.5	OZ251302	8.40	OZ251301	9.80	OZ25130T	12.10
13.5-13.0	OZ251352	10.40	OZ251351	11.80	OZ25135T	14.10
14.0-13.5	OZ251402	8.40	OZ251401	9.80	OZ25140T	12.10
14.5-14.0	OZ251452	10.40	OZ251451	11.80	OZ25145T	14.10
15.0-14.5	OZ251502	8.40	OZ251501	9.80	OZ25150T	12.10
15.5-15.0	OZ251552	10.40	OZ251551	11.80	OZ25155T	14.10
5/8" (15.88)	OZ2515882	10.40	OZ2515881	11.80	OZ251588T	14.10
16.0-15.5	OZ251602	8.40	OZ251601	9.80	OZ25160T	12.10
16.5-16.0	OZ251652	10.40	OZ251651	11.80	OZ25165T	14.10
17.0-16.5	OZ251702	8.40	OZ251701	9.80	OZ25170T	12.10
17.5-17.0	OZ251752	10.40	OZ251751	11.80	OZ25175T	14.10
18.0-17.5	OZ251802	8.40	OZ251801	9.80	OZ25180T	12.10
18.5-18.0	OZ251852	10.40	OZ251851	11.80	OZ25185T	14.10
19.0-18.5	OZ251902	8.40	OZ251901	9.80	OZ25190T	12.10
3/4" (19.05)	OZ2519052	10.40	OZ2519051	11.80	OZ251905T	14.10
19.5-19.0	OZ251952	10.40	OZ251951	11.80	OZ25195T	14.10
20.0-19.5	OZ252002	8.40	OZ252001	9.80	OZ25200T	12.10
20.5-20.0	OZ252052	10.40	OZ252051	11.80	OZ25205T	14.10
21.0-20.5	OZ252102	8.40	OZ252101	9.80	OZ25210T	12.10
21.5-21.0	OZ252152	10.40	OZ252151	11.80	OZ25215T	14.10
22.0-21.5	OZ252202	8.40	OZ252201	9.80	OZ25220T	12.10
22.5-22.0	OZ252252	10.40	OZ252251	11.80	OZ25225T	14.10
23.0-22.5	OZ252302	8.40	OZ252301	9.80	OZ25230T	12.10
23.5-23.0	OZ252352	10.40	OZ252351	11.80	OZ25235T	14.10
24.0-23.5	OZ252402	8.40	OZ252401	9.80	OZ25240T	12.10
24.5-24.0	OZ252452	10.40	OZ252451	11.80	OZ25245T	14.10
25.0-24.5	OZ252502	8.40	OZ252501	9.80	OZ25250T	12.10
1" (25.4)	OZ2525402	10.40	OZ2525401	11.80	OZ252540T	14.10
26.0-25.8*	OZ252602	16.00	OZ252601	19.00	OZ25260T	23.00
27.0-26.8*	OZ252702	16.00	OZ252701	19.00	OZ25270T	23.00
28.0-27.8*	OZ252802	16.00	OZ252801	19.00	OZ25280T	23.00
29.0-28.8*	OZ252902	16.00	OZ252901	19.00	OZ25290T	23.00
30.0-29.8*	OZ253002	16.00	OZ253001	19.00	OZ25300T	23.00
31.0-30.8*	OZ253102	16.00	OZ253101	19.00	OZ25310T	23.00
1-1/4" (31.75)*	OZ2531752	16.00	OZ2531751	19.00	OZ253175T	23.00
32.0-31.8*	OZ253202	16.00	OZ253201	19.00	OZ25320T	23.00



D	35.05mm
L	52.0mm
a	2° 51'45"
B	30°
CLAMPING RANGE TUTMA ARALIĞI	2.0-32.0
CLAMPING STEPS TUTMA KAPASİTESİ	0.5mm

\*  $\varnothing > 25.4$  (over  $\varnothing 25.4$ mm dia) collets are shorter than standard. They can only clamp down  $\varnothing -0,2$ mm  
 \*  $\varnothing > 25.4$  ( $\varnothing 25.4$ mm üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece  $\varnothing -0,2$ mm dir.



### DIN6388 B-25 (OZ25) COLLET SETS / DIN6388B-25 (OZ25) PENS TAKIMLARI

OZ25	OZ25 COLLET SET CLASS 2		OZ25 COLLET SET CLASS 1		OZ25 COLLET SET TOPAC (5 micron)	
	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
content / içeriği						
24pcs DIN6388B-25 collets $\varnothing 2-25$ mm in 1mm increments in plastic box 24 Ad. DIN6388-25 Pens $\varnothing 2-25$ mm 1mm atlamalı plastik kutuda	OZ25SET2	228.20	OZ25SET1	261.70	OZ25SETT	316.70

## DIN 6388 A / ISO 10897-A\* COLLETS DIN 6388 A / ISO 10897-A\* PENSLER



D	19.9mm
L	34mm
a	2° 51'45"
β	30°
CLAMPING RANGE TUTMA ARALIĞI	1.0-12.0

### DIN 6388 A / ISO10897-A 407E (OZ12-A) CLASS 2

CODE / KOD OZ12A	clamping dia sıkma çapı Ømm	EURO
OZ12A0102	1	19.00
OZ12A0202	2	18.00
OZ12A0302	3	16.00
OZ12A0402	4	16.00
OZ12A0502	5	16.00
OZ12A0602	6	16.00
OZ12A0702	7	16.00
OZ12A0802	8	16.00
OZ12A0902	9	16.00
OZ12A1002	10	16.00
OZ12A1102	11	16.00
OZ12A1202	12	16.00

### DIN 6388 A / ISO10897-A 450E (OZ32-A) CLASS 2

CODE / KOD OZ32A	clamping dia sıkma çapı Ømm	EURO
OZ32A0402	4	16.50
OZ32A0502	5	16.50
OZ32A0602	6	16.50
OZ32A0702	7	16.50
OZ32A0802	8	16.50
OZ32A0902	9	16.50
OZ32A1002	10	16.50
OZ32A1102	11	16.50
OZ32A1202	12	16.50
OZ32A1302	13	16.50
OZ32A1402	14	16.50
OZ32A1502	15	16.50
OZ32A1602	16	16.50
OZ32A1702	17	16.50
OZ32A1802	18	16.50
OZ32A1902	19	16.50
OZ32A2002	20	16.50
OZ32A2102	21	16.50
OZ32A2202	22	16.50
OZ32A2302	23	16.50
OZ32A2402	24	16.50
OZ32A2502	25	16.50
OZ32A2602	26	16.50
OZ32A2702	27	16.50
OZ32A2802	28	16.50
OZ32A2902	29	16.50
OZ32A3002	30	16.50
OZ32A3102	31	16.50
OZ32A3202	32	16.50



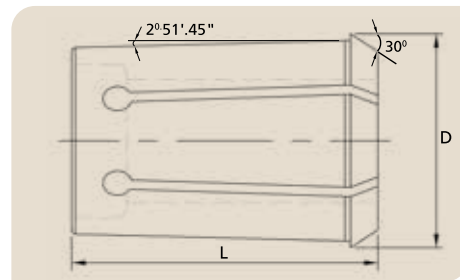
D	44mm
L	60mm
a	2° 51'45"
β	30°
CLAMPING RANGE TUTMA ARALIĞI	4.0-32.0



D	35.05mm
L	52mm
a	2° 51'45"
β	30°
CLAMPING RANGE TUTMA ARALIĞI	2.0-25.0

### DIN 6388 A / ISO10897-A 444E (OZ25-A) CLASS 2

CODE / KOD OZ25A	clamping dia sıkma çapı Ømm	EURO
OZ25A0202	2	12.00
OZ25A0302	3	11.40
OZ25A0402	4	9.00
OZ25A0502	5	9.00
OZ25A0602	6	9.00
OZ25A0702	7	9.00
OZ25A0802	8	9.00
OZ25A0902	9	9.00
OZ25A1002	10	9.00
OZ25A1102	11	9.00
OZ25A1202	12	9.00
OZ25A1302	13	9.00
OZ25A1402	14	9.00
OZ25A1502	15	9.00
OZ25A1602	16	9.00
OZ25A1702	17	9.00
OZ25A1802	18	9.00
OZ25A1902	19	9.00
OZ25A2002	20	9.00
OZ25A2102	21	9.00
OZ25A2202	22	9.00
OZ25A2302	23	9.00
OZ25A2402	24	9.00
OZ25A2502	25	9.00



\* Form A OZ collets only clamps its nominal diameter, slotted from one side.  
\* Form A OZ pensler sadece kendi çapını sıkar, tek taraftan yarılmıştır.

## DIN 6388 B / ISO 10897-B\* COLLETS

### DIN 6388 B / ISO 10897-B\* PENSLER



D	15.5mm
L	40mm
a	2° 51'45"
β	30°
CLAMPING RANGE TUTMA ARALIĞI	1.0-16.0
CLAMPING STEPS TUTMA KAPASİTESİ	0.5mm*

#### DIN 6388 B / ISO10897-B 415E (OZ16-B) CLASS 2

CODE / KOD OZ16B	clamping dia sıkma çapı Ømm	EURO
OZ160102	1.0-0.5	12.00
OZ160202	2.0-1.5	11.00
OZ160302	3.0-2.5	9.00
OZ160402	4.0-3.5	9.00
OZ160502	5.0-4.5	9.00
OZ160602	6.0-5.5	9.00
OZ160702	7.0-6.5	9.00
OZ160802	8.0-7.5	9.00
OZ160902	9.0-8.5	9.00
OZ161002	10.0-9.5	9.00
OZ161102	11.0-10.5	9.00
OZ161202	12.0-11.5	9.00
OZ161302	13.0-12.5	9.00
OZ161402	14.0-13.5	9.00
OZ161502	15.0-14.5	9.00
OZ161602	16.0-15.5	9.00

#### DIN 6388 B / ISO10897-B 467E (OZ32-B) CLASS 2

CODE / KOD OZ32B	clamping dia sıkma çapı Ømm	EURO
OZ320402	4.0-3.5	16.50
OZ320502	5.0-4.5	16.50
OZ320602	6.0-5.5	16.50
OZ320702	7.0-6.5	16.50
OZ320802	8.0-7.5	16.50
OZ320902	9.0-8.5	16.50
OZ321002	10.0-9.5	16.50
OZ321102	11.0-10.5	16.50
OZ321202	12.0-11.5	16.50
OZ321302	13.0-12.5	16.50
OZ321402	14.0-13.5	16.50
OZ321502	15.0-14.5	16.50
OZ321602	16.0-15.5	16.50
OZ321702	17.0-16.5	16.50
OZ321802	18.0-17.5	16.50
OZ321902	19.0-18.5	16.50
OZ322002	20.0-19.5	16.50
OZ322102	21.0-20.5	16.50
OZ322202	22.0-21.5	16.50
OZ322302	23.0-22.5	16.50
OZ322402	24.0-23.5	16.50
OZ322502	25.0-24.5	16.50
OZ322602	26.0-25.5	16.50
OZ322802	28.0-27.5	16.50
OZ323002	30.0-29.5	16.50
OZ323202	32.0-31.5	16.50



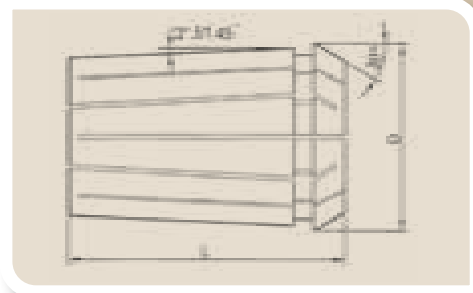
D	44mm
L	60mm
a	2° 51'45"
β	30°
CLAMPING RANGE TUTMA ARALIĞI	4.0-32.0
CLAMPING STEPS TUTMA KAPASİTESİ	0.5mm*



D	30mm
L	45mm
a	2° 51'45"
β	30°
CLAMPING RANGE TUTMA ARALIĞI	2.0-20.0
CLAMPING STEPS TUTMA KAPASİTESİ	0.5mm*

#### DIN 6388 B / ISO10897-B 4541E (OZ20-B) CLASS 2

CODE / KOD OZ20B	clamping dia sıkma çapı Ømm	EURO
OZ200202	2.0-1.5	16.00
OZ200302	3.0-2.5	15.00
OZ200402	4.0-3.5	14.00
OZ200502	5.0-4.5	14.00
OZ200602	6.0-5.5	14.00
OZ200702	7.0-6.5	14.00
OZ200802	8.0-7.5	14.00
OZ200902	9.0-8.5	14.00
OZ201002	10.0-9.5	14.00
OZ201102	11.0-10.5	14.00
OZ201202	12.0-11.5	14.00
OZ201302	13.0-12.5	14.00
OZ201402	14.0-13.5	14.00
OZ201502	15.0-14.5	14.00
OZ201602	16.0-15.5	14.00
OZ201702	17.0-16.5	14.00
OZ201802	18.0-17.5	14.00
OZ201902	19.0-18.5	14.00
OZ202002	20.0-19.5	14.00



\* Form B OZ collets can clamp upto 0.5mm down from the its diameter, they are slotted from both sides.

\* Form B OZ pensler çapının 0.5mm altına kadar sıkar, çift taraftan yarıklıdır.

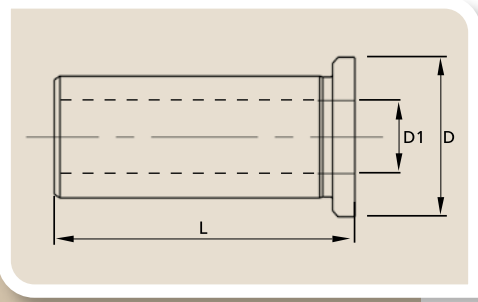
## REDUCTION COLLETS FOR HYDRAULIC CHUCKS (High Precision) HİDROLİK TUTUCU İÇİN REDÜKSİYON PENSLER (Yüksek hassasiyetli)

### RH12 Ø12

(Runout / Salgı: Max. 5 Micron)

CODE / KOD	D	d1	L	EURO
RH12020	12	2	40	50.00
RH12025	12	2.5	40	45.00
RH12030	12	3	40	35.00
RH120318	12	1/8" (3.18)	40	35.00
RH12040	12	4	40	33.00
RH120476	12	3/16" (4.76)	40	33.00
RH12050	12	5	40	30.00
RH12060	12	6	40	28.00
RH120635	12	1/4" (6.35)	40	28.00
RH12070	12	7	40	28.00
RH120794	12	5/16" (7.94)	40	28.00
RH12080	12	8	40	28.00
RH12090	12	9	40	28.00
RH120953	12	3/8" (9.53)	40	28.00
RH12100*	12	10	40	35.00

\* Run out for RH12100 is max. 0.01mm / RH12100 için salgı 0.01mm dir.



## REDUCTION COLLETS SETS FOR HYDRAULIC CHUCKS (High Precision) HİDROLİK TUTUCU İÇİN REDÜKSİYON PENS TAKIMLARI (Yüksek hassasiyetli)

CODE/KOD	content - içeriği	EURO
RH12SETM	8pcs RH12 Metric sized collets Ø3-10mm in box 8 Adet RH12 metrik ölçü pens Ø3-10mm kutu içinde Ø3-4-5-6-7-8-9-10mm	260.00
RH12SETIN	5pcs RH12 Inch sized collets Ø1/8-3/8" in box 5 Adet RH12 İnç ölçü pens Ø1/8-3/8" kutu içinde Ø1/8-3/16-1/4-5/16-3/8"	172.00

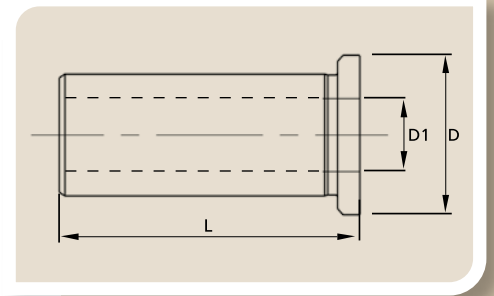
## REDUCTION COLLETS FOR HYDRAULIC CHUCKS (High Precision) HİDROLİK TUTUCU İÇİN REDÜKSİYON PENSLER (Yüksek hassasiyetli)

RH20 Ø20

(Runout / Salgı: Max. 5 Micron)

CODE / KOD	D	d1	L	EURO
RH20020	20	2	50	50.00
RH20025	20	2.5	50	45.00
RH20030	20	3	50	35.00
RH200318	20	1/8" (3.18)	50	35.00
RH20040	20	4	50	33.00
RH200476	20	3/16" (4.76)	50	33.00
RH20050	20	5	50	30.00
RH20060	20	6	50	28.00
RH200635	20	1/4" (6.35)	50	28.00
RH20070	20	7	50	28.00
RH200794	20	5/16" (7.94)	50	28.00
RH20080	20	8	50	28.00
RH20090	20	9	50	28.00
RH200953	20	3/8" (9.53)	50	28.00
RH20100	20	10	50	28.00
RH20110	20	11	50	28.00
RH201111	20	7/16" (11.11)	50	28.00
RH20120	20	12	50	28.00
RH20127	20	1/2" (12.7)	50	28.00
RH20130	20	13	50	28.00
RH20140	20	14	50	28.00
RH201429	20	9/16" (14.29)	50	28.00
RH20150	20	15	50	28.00
RH201588	20	5/8" (15.88)	50	28.00
RH20160	20	16	50	28.00
RH20170	20	17	50	35.00
RH20180 *	20	18	50	35.00

\* Run out for RH20180 is max. 0.01mm / RH20180 için salgı 0.01mm dir.



## REDUCTION COLLETS SETS FOR HYDRAULIC CHUCKS (High Precision) HİDROLİK TUTUCU İÇİN REDÜKSİYON PENS TAKIMLARI (Yüksek hassasiyetli)

CODE/KOD	content - içeriği	EURO
RH20SETM	16pcs RH20 Metric sized collets Ø3-18mm in box 16 Adet RH20 metrik ölçü pens Ø3-18mm kutu içinde Ø3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18mm	484.00
RH20SETIN	9pcs RH20 Inch sized collets Ø1/8-5/8" in box 9 Adet RH20 İnç ölçü pens Ø1/8-5/8" kutu içinde Ø1/8-3/16-1/4-5/16-3/8-7/16-1/2-9/16-5/8"	284.00

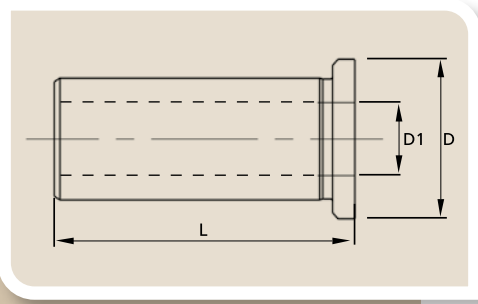
Suitable for internal and external cooling / İçten ve dıştan soğutmaya uygundur.



## REDUCTION COLLETS FOR HYDRAULIC CHUCKS (High Precision) HİDROLİK TUTUCU İÇİN REDÜKSİYON PENSLER (Yüksek hassasiyetli)

### RH25 Ø25

(Runout / Salgı: Max. 5 Micron)



CODE / KOD	D	d1	L	EURO
RH25030	25	3	54	39.00
RH250318	25	1/8" (3.18)	54	39.00
RH25040	25	4	54	37.00
RH250476	25	3/16" (4.76)	54	37.00
RH25050	25	5	54	34.00
RH25060	25	6	54	32.00
RH250635	25	1/4" (6.35)	54	32.00
RH25070	25	7	54	32.00
RH250794	25	5/16" (7.94)	54	32.00
RH25080	25	8	54	32.00
RH25090	25	9	54	32.00
RH250953	25	3/8" (9.53)	54	32.00
RH25100	25	10	54	32.00
RH25110	25	11	54	32.00
RH251111	25	7/16" (11.11)	54	32.00
RH25120	25	12	54	32.00
RH25127	25	1/2" (12.7)	54	32.00
RH25130	25	13	54	32.00
RH25140	25	14	54	32.00
RH251429	25	9/16" (14.29)	54	32.00
RH25150	25	15	54	32.00
RH251588	25	5/8" (15.88)	54	32.00
RH25160	25	16	54	32.00
RH25180	25	18	54	32.00
RH251905	25	3/4" (19.05)	54	32.00
RH25200	25	20	54	32.00

## REDUCTION COLLETS SETS FOR HYDRAULIC CHUCKS (High Precision) HİDROLİK TUTUCU İÇİN REDÜKSİYON PENS TAKIMLARI (Yüksek hassasiyetli)

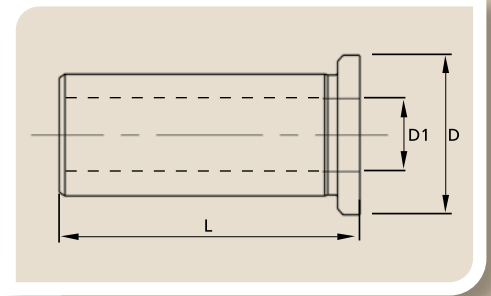
CODE/KOD	content - içeriği	EURO
RH25SETM	16pcs RH25 Metric sized collets Ø3-25mm in box 16 Adet RH25 metrik ölçü pens Ø3-20mm kutu içinde Ø3-4-5-6-7-8-9-10-11-12-13-14-15-16-18-20mm	529.00
RH25SETIN	10pcs RH25 Inch sized collets Ø1/8-3/4" in box 10 Adet RH25 inç ölçü pens Ø1/8-3/4" kutu içinde Ø1/8-3/16-1/4-5/16-3/8-7/16-1/2-9/16-5/8-3/4"	352.00

## REDUCTION COLLETS FOR HYDRAULIC CHUCKS (High Precision) HİDROLİK TUTUCU İÇİN REDÜKSİYON PENSLER (Yüksek hassasiyetli)

### RH32 Ø32

(Runout / Salgı: Max. 5 Micron)

CODE / KOD	D	d1	L	EURO
RH32030	32	3	58	44.00
RH320318	32	1/8" (3.18)	58	44.00
RH32040	32	4	58	42.00
RH320476	32	3/16" (4.76)	58	42.00
RH32050	32	5	58	39.00
RH32060	32	6	58	36.00
RH320635	32	1/4" (6.35)	58	36.00
RH32070	32	7	58	36.00
RH320794	32	5/16" (7.94)	58	36.00
RH32080	32	8	58	36.00
RH32090	32	9	58	36.00
RH320953	32	3/8" (9.53)	58	36.00
RH32100	32	10	58	36.00
RH32110	32	11	58	36.00
RH321111	32	7/16" (11.11)	58	36.00
RH32120	32	12	58	36.00
RH32127	32	1/2" (12.7)	58	36.00
RH32130	32	13	58	36.00
RH32140	32	14	58	36.00
RH321429	32	9/16" (14.29)	58	36.00
RH32150	32	15	58	36.00
RH321588	32	5/8" (15.88)	58	36.00
RH32160	32	16	58	36.00
RH32180	32	18	58	36.00
RH321905	32	3/4" (19.05)	58	36.00
RH32200	32	20	58	36.00
RH32220	32	22	58	36.00
RH322223	32	7/8" (22.23)	58	36.00
RH32240	32	24	58	36.00
RH32250	32	25	58	36.00
RH32254	32	1" (25.4)	58	36.00
RH32260	32	26	58	36.00
RH32280	32	28	58	36.00

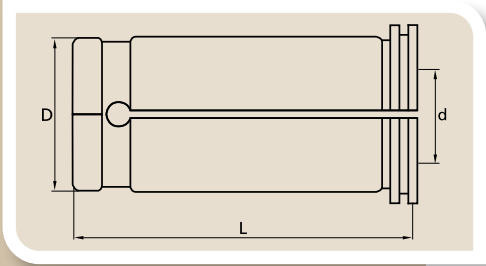


## REDUCTION COLLETS FOR HYDRAULIC CHUCKS (High Precision) HİDROLİK TUTUCU İÇİN REDÜKSİYON PENSLER (Yüksek hassasiyetli)

CODE/KOD	content - içeriği	EURO
RH32SETM	17pcs RH32 Metric sized collets Ø3-25mm in box 17 Adet RH32 metrik ölçü pens Ø3-25mm kutu içinde Ø3-4-5-6-7-8-9-10-11-12-13-14-15-16-18-20mm	654.00
RH32SETIN	12pcs RH32 Inch sized collets Ø1/8-3/4" in box 12 Adet RH32 inç ölçü pens Ø1/8-3/4" ahşap kutu içinde Ø1/8-3/16-1/4-5/16-3/8-7/16-1/2-9/16-5/8-3/4"-7/8-1"	471.00

Suitable for internal and external cooling / İçten ve dıştan soğutmaya uygundur.

## STRAIGHT (CYLINDRICAL) REDUCTION COLLETS FOR HP MILLING CHUCKS DÜZ (SİLİNDİRİK) REDÜKSİYON PENSLER, HP FREZE TUTUCULARI İÇİN



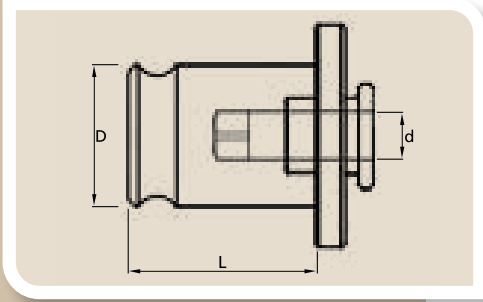
CODE / KOD	D outside dia dış çap	d inside dia iç çap	L	EURO
SC2003	20	3	50	11.00
SC2004	20	4	50	11.00
SC2005	20	5	50	11.00
SC2006	20	6	50	11.00
SC2008	20	8	50	11.00
SC2010	20	10	50	11.00
SC2012	20	12	50	11.00
SC2014	20	14	50	11.00
SC2016	20	16	50	11.00
SC2503	25	3	60	11.00
SC2504	25	4	60	11.00
SC2505	25	5	60	11.00
SC2506	25	6	60	11.00
SC2508	25	8	60	11.00
SC2510	25	10	60	11.00
SC2512	25	12	60	11.00
SC2514	25	14	60	11.00
SC2516	25	16	60	11.00
SC2518	25	18	60	11.00
SC2520	25	20	60	11.00
SC3204	32	4	65	12.00
SC3205	32	5	65	12.00
SC3206	32	6	65	12.00
SC3208	32	8	65	12.00
SC3210	32	10	65	12.00
SC3212	32	12	65	12.00
SC3214	32	14	65	12.00
SC3216	32	16	65	12.00
SC3218	32	18	65	12.00
SC3220	32	20	65	12.00
SC3225	32	25	65	12.00

Not suitable for Hydraulic chucks / Hidrolik tutucu için uygun değildir



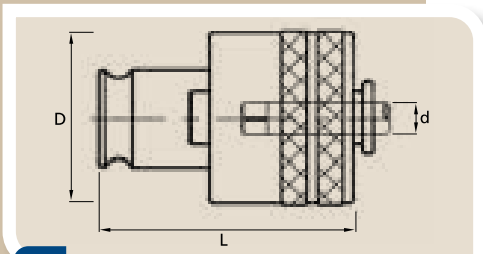
**QUICK CHANGE TAP HOLDERS**  
**KOLAY DEĞİŞİR KILAVUZ TUTUCULARI**

## TAP HOLDER Quick Change / KILAVUZ TUTUCULARI Kolay deęişebilir Without clutch (Fixed) / Sabit tip



CODE / KOD	Description Ø x square mm Tanım Ø x kare mm	Suitable taps uyumlu kılavuzlar	d	D	L	EURO
TC103527	TC1 3.5x2.7	M3/371 M5/376	19	30	28.5	13.00
TC104534	TC1 4.5x3.4	M4/371 M6/376	19	30	28.5	13.00
TC106049	TC1 6x4.9	M5-M6/371 M8/376	19	30	28.5	13.00
TC108062	TC1 8x6.2	M8/371	19	30	28.5	13.00
TC107055	TC1 7x5.5	M10/376	19	30	28.5	13.00
TC110080	TC1 10x8	M10/371	19	30	28.5	13.00
TC109070	TC1 9x7	M12/376	19	30	28.5	13.00
TC111090	TC1 11x9	M14/376	19	30	28.5	13.00
TC206049	TC2 6x4.9	M5-M6/371 M8/376	31	48	46	16.00
TC208062	TC2 8x6.2	M8/371	31	48	46	16.00
TC207055	TC2 7x5.5	M10/376	31	48	46	16.00
TC210080	TC2 10x8	M10/371	31	48	46	16.00
TC209070	TC2 9x7	M12/376	31	48	46	16.00
TC211090	TC2 11x9	M14/376	31	48	46	16.00
TC212090	TC2 12x9	M16/376	31	48	46	16.00
TC214110	TC2 14x11	M18/376	31	48	46	16.00
TC216120	TC2 16x12	M20/376	31	48	46	16.00
TC218145	TC2 18x14.5	M22-M24/376	31	48	46	16.00

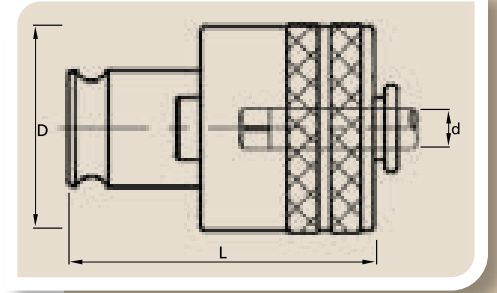
## TAP HOLDER Quick Change / KILAVUZ TUTUCULARI Kolay deęişebilir With safety clutch / Emniyetli tip



CODE / KOD	Description Ø x square mm Tanım Ø x kare mm	Suitable taps uyumlu kılavuzlar	d	D	L	EURO
TCS1M0303527	TCS1 M3 3.5x2.7	M3/371	19	33	46.5	25.00
TCS1M0503527	TCS1 M5 3.5x2.7	M5/376	19	33	46.5	25.00
TCS1M0404534	TCS1 M4 4.5x3.4	M4/371	19	33	46.5	25.00
TCS1M0604534	TCS1 M6 4.5x3.4	M6/376	19	33	46.5	25.00
TCS1M0506049	TCS1 M5 6x4.9	M5/371	19	33	46.5	25.00
TCS1M0606049	TCS1 M6 6x4.9	M6/371	19	33	46.5	25.00
TCS1M0806049	TCS1 M8 6x4.9	M8/376	19	33	46.5	25.00
TCS1M1007055	TCS1 M10 7x5.5	M10/376	19	33	46.5	25.00
TCS1M0808062	TCS1 M8 8x6.2	M8/371	19	33	46.5	25.00
TCS1M1010080	TCS1 M10 10x8	M10/371	19	33	46.5	25.00
TCS1M1209070	TCS1 M12 9x7	M12/376	19	33	46.5	25.00
TCS1M1411090	TCS1 M14 11x9	M14/376	19	33	46.5	25.00

## TAP HOLDER Quick Change / KILAVUZ TUTUCULARI Kolay deęişebilir With safety clutch / Emniyetli tip

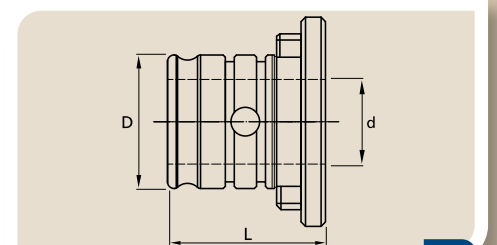
CODE / KOD	Description Ø x square mm Tanım Ø x kare mm	Suitable taps uyumlu kılavuzlar	d	D	L	EURO
TCS2M0506049	TCS2 M5 6x4.9	M5/371	31	51	70	30.00
TCS2M0606049	TCS2 M6 6x4.9	M6/371	31	51	70	30.00
TCS2M0806049	TCS2 M8 6x4.9	M8/376	31	51	70	30.00
TCS2M1007055	TCS2 M10 7x5.5	M10/376	31	51	70	30.00
TCS2M0808062	TCS2 M8 8x6.2	M8/371	31	51	70	30.00
TCS2M1010080	TCS2 M10 10X8	M10/371	31	51	70	30.00
TCS2M1209070	TCS2 M12 9x7	M12/376	31	51	70	30.00
TCS2M1411090	TCS2 M14 11X9	M14/376	31	51	70	30.00
TCS2M1612090	TCS2 M16 12X9	M16/376	31	51	70	30.00
TCS2M1814110	TCS2 M18 14X11	M18/376	31	51	70	30.00
TCS2M2016120	TCS2 M20 16X12	M20/376	31	51	70	30.00
TCS2M2218145	TCS2 M22 18X14.5	M22/376	31	51	70	30.00
TCS2M2418145	TCS2 M24 18X14.5	M24/376	31	51	70	30.00



CODE / KOD	Description Ø x square mm Tanım Ø x kare mm	Suitable taps uyumlu kılavuzlar	d	D	L	EURO
TCS3M1411090	TCS3 M14 11X9	M14/376	48	73	100.5	70.00
TCS3M1612090	TCS3 M16 12X9	M16/376	48	73	100.5	70.00
TCS3M1814110	TCS3 M18 14X11	M18/376	48	73	100.5	70.00
TCS3M2016120	TCS3 M20 16X12	M20/376	48	73	100.5	70.00
TCS3M2218145	TCS3 M22 18X14.5	M22/376	48	73	100.5	70.00
TCS3M2418145	TCS3 M24 18X14.5	M24/376	48	73	100.5	70.00
TCS3M2720160	TCS3 M27 20X16	M27/376	48	73	100.5	70.00
TCS3M3022180	TCS3 M30 22X18	M30/376	48	73	100.5	70.00
TCS3M3325200	TCS3 M33 25X20	M33/376	48	73	100.5	70.00
TCS3M3628220	TCS3 M36 28X22	M36/376	48	73	100.5	70.00

## TAP HOLDER REDUCTION KILAVUZ TUTUCU REDÜKSİYONU

CODE / KOD	Description Açıklama	d	D	L	EURO
TC2 TC1	Adapts TC1/TCS1 to a TC2/TCS2 holder TC1/TCS1 tutucuyu TC2/TCS2' ye adapte eder	19	31	35	24.00



**QUICK CHANGE TAPPING CHUCKS**  
**KOLAY DEĞİŞİR KLAUVUZ ÇEKME BAŞLIKLARI**



Please see page 14 / Bakınız sayfa 14



Please see page 26 / Bakınız sayfa 26



Please see page 36 / Bakınız sayfa 36



Please see page 42 / Bakınız sayfa 42



Please see page 46 / Bakınız sayfa 46



Please see page 51 / Bakınız sayfa 51



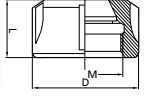
**TOOLHOLDER ACCESSORIES**  
*TUTUCU AKSESUARLARI*



## LOCKNUTS PENS SOMUNLARI



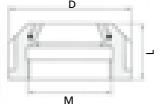
### ER STANDARD LOCKNUT / ER STANDART SOMUN DIN 6499 / ISO 15488



CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	D	L	M	EURO
NER16S	ER 16	32	17.5	M22x1.5	5.50
NER20S	ER 20	35	19	M25x1.5	5.50
NER25S	ER 25	42	20	M32x1.5	5.80
NER32S	ER 32	50	22.5	M40x1.5	6.00
NER40S	ER 40	63	25.5	M50x1.5	7.90
NER50S	ER 50	78	35	M64x2	14.50



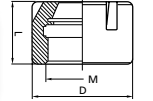
### ER BEARING TYPE LOCKNUT / ER BİLYALI TİP SOMUN DIN 6499 / ISO 15488



CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	D	L	M	EURO
NER25B	ER 25	42	23	M32x1.5	15.50
NER32B	ER 32	50	25	M40x1.5	15.50
NER40B	ER 40	63	28.5	M50x1.5	16.50



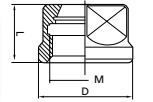
### ER MINI LOCKNUT / ER MİNİ SOMUN DIN 6499 / ISO 15488



CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	D	L	M	EURO
NER08M	ER 8 MINI	12	11	M10x0.75	6.00
NER11M	ER 11 MINI	16	12	M13x0.75	5.50
NER16M	ER 16 MINI	22	19	M19x1	5.50
NER20M	ER 20 MINI	28	19	M24x1	5.60
NER25M	ER 25 MINI	35	20	M30x1	5.90



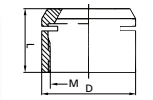
### ER HEXAGON LOCKNUT / ER ALTİKÖŞE SOMUN DIN 6499 / ISO 15488



CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	D	L	M	EURO
NER11H	ER 11	19	11.3	M14x0.75	5.50
NER16H	ER 16	28	17	M22x1.5	5.50
NER20H	ER 20	34	19	M25x1.5	5.60



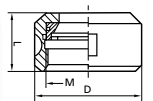
### ER HIGH SPEED LOCKNUT (Suitable for ER MINI Toolholders) ER YÜKSEK HIZ SOMUNU (ER MİNİ tutuculara uygundur)



CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	D	L	M	EURO
NER11HS	ER11 MINI	16	12	M13x0.75	11.80
NER16HS	ER16 MINI	22	18	M19x1	11.80
NER20HS	ER20 MINI	28	19	M24x1	11.80



### OZ TYPE LOCKNUT / OZ TİP SOMUN DIN 6388 / ISO 10897-D



CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	D	L	M	EURO
NOZ12	OZ12 407E	35	20	M27x1,5	24.00
NOZ16B	OZ16 410E-415E	43	24	M33x1.5	24.00
NOZ20B	OZ20 4541E	50	28	M42x2	24.00
NOZ25B	OZ25 444E-462E	60	30	M48x2	18.00
NOZ32B	OZ32 450E-467E	72	34	M60x2.5	25.00

## SPANNERS ANAHTARLAR

### ER STANDARD SPANNER / ER STANDART ANAHTAR

CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	EURO
SPER16S	ER 16	4.50
SPER20S	ER 20	4.50
SPER25S	ER 25	4.80
SPER32S	ER 32	5.30
SPER40S	ER 40	6.60
SPER50S	ER 50	14.50



### ER MOON TYPE SPANNER / ER AY TİPİ ANAHTAR

CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	EURO
SPER25C	ER 25	4.80
SPER32C	ER 32	5.30
SPER40C	ER 40	6.60



### ER MINI SPANNER / ER MINI ANAHTAR

CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	EURO
SPER08M	ER 8 MINI	5.50
SPER11M	ER 11 MINI	5.50
SPER16M	ER 16 MINI	5.50
SPER20M	ER 20 MINI	6.20
SPER25M	ER 25 MINI	6.90



### ER HEXAGON SPANNER / ER ALTIKÖŞE ANAHTAR

CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	EURO
SPER11H	ER 11	3.80
SPER16H	ER 16	4.00
SPER20H	ER 20	4.20



### OZ SPANNER DIN 6388 / ISO 10897 - OZ AY ANAHTAR DIN 6388 / ISO 10897

CODE / KOD	TYPE / TİP	EURO
SPOZ12	DIN6388D-12	7.50
SPOZ16	DIN6388D-16	7.50
SPOZ20	DIN6388D-12	7.50
SPOZ25	DIN6388D-25	5.30
SPOZ32	DIN6388D-32	13.50



### HSK63A COOLANT TUBE SPANNER / HSK63A SOĞUTUCU BORUSU ANAHTARI

CODE / KOD	HOLDER TYPE TUTUCU TİPİ	EURO
SPHSK63	HSK63A	14.50



## SPANNERS ANAHTARLAR

### FACE MILL SPANNER / ALIN FREZE TUTUCU ANAHTARI

CODE / KOD	TYPE / TİP	EURO
SPFM16	FM16	12.00
SPFM22	FM22	13.00
SPFM27	FM27	14.50
SPFM32	FM32	17.50
SPFM40	FM40	24.50

### HP HOLDER SPANNER / HP TUTUCU ANAHTARI

CODE / KOD	HOLDER TYPE TUTUCU TİPİ	EURO
SPHP20	HP20	13.00
SPHP25	HP25	13.00
SPHP32	HP32	14.50

### ER HIGH SPEED NUT SPANNER / ER YÜKSEK HIZ SOMUNU ANAHTARI

CODE / KOD	ER NUT TYPE ER SOMUN TİPİ	EURO
SPER11HS	NER11HS	16.00
SPER16HS	NER16HS	16.50
SPER20HS	NER20HS	17.50

### EXTRACTION SPANNER FOR HYDRAULIC REDUCTION COLLET HİDROLİK REDÜKSİYON PENSİ ÇIKARMA ANAHTARI

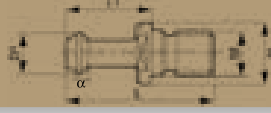
CODE / KOD	SUITABLE FOR COLLETS UYUMLU PENSLER	EURO
SPRH	RH12 - RH20 RH25 - RH32	18.00

### DRILL CHUCK SPANNER / MANDREN ANAHTARI

CODE / KOD	HOLDER TYPE TUTUCU TİPİ	EURO
SPDC13	DC13	12.50
SPDC16	DC16	13.50
SPDC20	DC20	17.00

## PULL STUDS ÇEKTİRME CİVATALARI

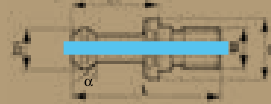
### MAS 403 BT without coolant hole Soğutma deliksiz



CODE KOD	Toolholder Taper Tutucu Konik	M	D	D1	L	L1	$\alpha$	EURO
PSBT3045	BT30	M12	16.5	11	43	23	45°	3.80
PSBT3060	BT30	M12	16.5	11	43	23	60°	3.80
PSBT3090	BT30	M12	16.5	11	43	23	90°	3.80
PSBT4045	BT40	M16	23	15	60	35	45°	3.80
PSBT4060	BT40	M16	23	15	60	35	60°	3.80
PSBT4090	BT40	M16	23	15	60	35	90°	3.80
PSBT5045	BT50	M24	38	23	85	45	45°	5.50
PSBT5060	BT50	M24	38	23	85	45	60°	5.50
PSBT5090	BT50	M24	38	23	85	45	90°	5.50



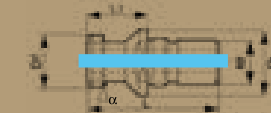
### MAS 403 BT - Internal coolant İçten soğutma delikli



CODE KOD	Toolholder Taper Tutucu Konik	M	D	D1	L	L1	$\alpha$	EURO
PSBT3045B	BT30	M12	16.5	11	43	23	45°	4.20
PSBT4045B	BT40	M16	23	15	60	35	45°	4.20
PSBT4060B	BT40	M16	23	15	60	35	60°	4.20
PSBT4090B	BT40	M16	23	15	60	35	90°	4.20
PSBT5045B	BT50	M24	38	23	85	45	45°	6.00



### DIN 69872A - Internal coolant İçten soğutma delikli



CODE KOD	Toolholder Taper Tutucu Konik	M	D	D1	L	L1	$\alpha$	EURO
PS698723A	DIN30 (69871)	M12	17	13	44	24	15°	4.20
PS698724A	DIN40 (69871)	M16	23	19	54	26	15°	4.20
PS698725A	DIN50 (69871)	M24	36	28	74	34	15°	6.00



### DIN 69872B without coolant hole Soğutma deliksiz



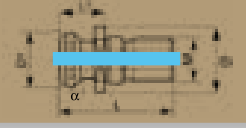
CODE KOD	Toolholder Taper Tutucu Konik	M	D	D1	L	L1	$\alpha$	EURO
PS698724B	DIN40 (69871)	M16	23	19	54	26	15°	3.80
PS698725B	DIN50 (69871)	M24	36	28	74	34	15°	5.50



## PULL STUDS ÇEKTİRME CİVATALARI



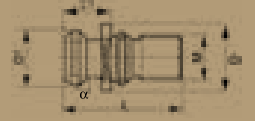
**ISO 7388/2 (1984/B) - Internal coolant**  
*İçten soğutma delikli*



CODE KOD	Toolholder Taper Tutucu Konik	M	D	D1	L	L1	$\alpha$	EURO
PS738840A	DIN40 (69871)	M16	22.5	18.9	44.5	16.25	45°	4.20
PS738850A	DIN50 (69871)	M24	36	29.1	65.5	25.55	45°	6.00



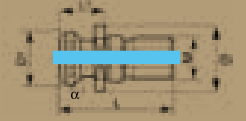
**ISO 7388/2 (1984/B) - without coolant hole**  
*Soğutma deliksiz*



CODE KOD	Toolholder Taper Tutucu Konik	M	D	D1	L	L1	$\alpha$	EURO
PS738840B	DIN40 (69871)	M16	22.5	18.9	44.5	16.25	45°	3.80
PS738850B	DIN50 (69871)	M24	36	29.1	65.5	25.55	45°	5.50



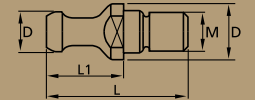
**FOR MAZAK MACHINES - Internal coolant**  
*MAZAK Tezgaahlar için - İçten soğutma delikli*



CODE KOD	Toolholder Taper Tutucu Konik	M	D	D1	L	L1	$\alpha$	EURO
PS738840MZ	DIN40 (69871)	M16	22	18.8	44.1	19.1	45°	4.90



**SK30 FOR CNC ROUTER MACHINES**  
*SK30 CNC ROUTER TEZGAHLAR İÇİN*



CODE KOD	Toolholder Taper Tutucu Konik	M	D	D1	L	L1	$\alpha$	EURO
PSSK30	SK30	M12	17	12	44	24	R	5.00



## TOOL CLAMPING UNITS TAKIM BAĞLAMA ÜNİTELERİ

### UNIVERSAL TOOL CLAMPING SET ÜNİVERSAL TAKIM BAĞLAMA SETİ

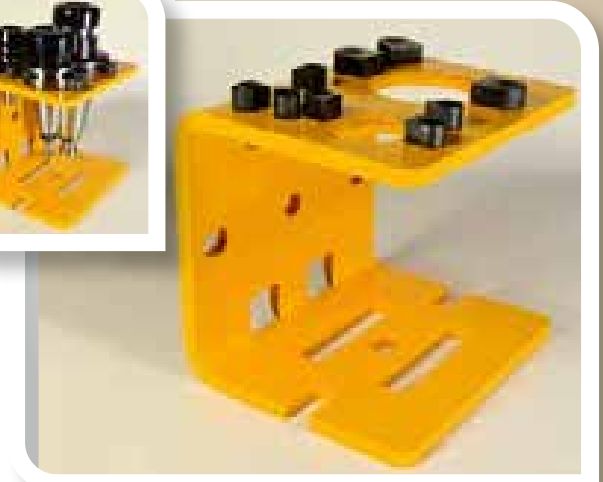
Pat.

CODE / KOD	Description / Tanımı	EURO
TBAUNI	<p>All in one, Universal design massive steel construction, usable both vertical and horizontal position, suitable tapers: BT-DIN-ISO-SK-CAT 30-40-50 HSK A 40-50-63-80-100</p> <p>Hepsi bir arada, üniversal tasarım, masif çelik yapı, dikey ve yatay kullanım ve bağlama imkanı takılan konikler BT-DIN-ISO-SK-CAT 30-40-50 HSK A 40-50-63-80-100 Dimensions/Boyutlar: 174x191x169mm</p>	165.00



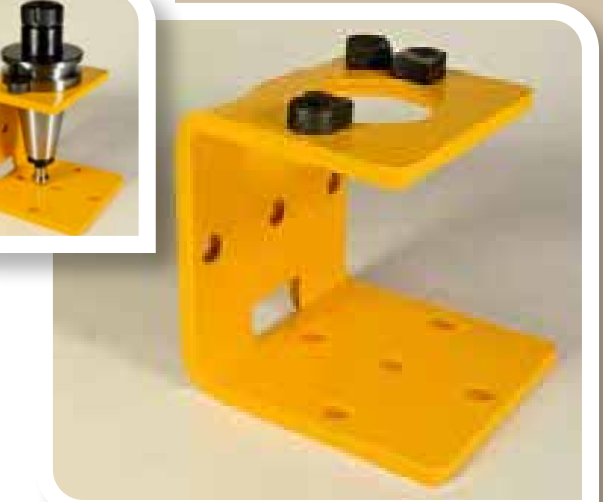
### TOOL CLAMPING UNIT 30-40-50 TAPER TAKIM BAĞLAMA APARATI 30-40-50 KONİK

CODE / KOD	Description / Tanımı	EURO
TBA304050	<p>Massive steel construction, usable both vertical and horizontal position Suitable for holders: BT-DIN-ISO-SK-CAT 30-40-50 tapers</p> <p>Masif çelik yapı Dikey ve yatay konumda kullanım ve bağlama imkanı Bağladığı tutucular : BT-DIN-ISO-SK-CAT 30-40-50 konikler Dimensions/Boyutlar: 165x190x165mm</p>	70.00



### TOOL CLAMPING UNIT WITH SINGLE TAPER TAKIM BAĞLAMA APARATI TEK KONİKLİ

CODE / KOD	Description / Tanımı	EURO
TBA30	<p>Tool clamping unit 30 Taper Takım bağlama aparatı 30 konik BT-DIN-ISO-SK-CAT 30 Dimensions/Boyutlar: 75x95x75mm</p>	40.00
TBA40	<p>Tool clamping unit 40 Taper Takım bağlama aparatı 40 konik BT-DIN-ISO-SK-CAT 40 Dimensions/Boyutlar: 90x110x105mm</p>	45.00
TBA50	<p>Tool clamping unit 50 Taper Takım bağlama aparatı 50 konik BT-DIN-ISO-SK-CAT 50 Dimensions/Boyutlar: 110x148x150mm</p>	55.00



Massive steel construction, usable both vertical and horizontal position,  
Masif çelik yapı, dikey ve yatay bağlama imkanı

## TOOL CLAMPING UNITS TAKIM BAĞLAMA ÜNİTELERİ



### TOOL CLAMPING UNIT FOR HSK-A TAPERS / TAKIM BAĞLAMA APARATI HSK-A KONİKLER İÇİN

CODE / KOD	Description / Tanımı	EURO
TBAHSK40	Tool clamping unit HSK-A 40 Taper Takım bağlama aparatı HSK-A 40 konik Dimensions/Boyutlar: 60x80x60mm	60.00
TBAHSK50	Tool clamping unit HSK-A 50 Taper Takım bağlama aparatı HSK-A 50 konik Dimensions/Boyutlar: 75x90x65mm	65.00
TBAHSK63	Tool clamping unit HSK-A 63 Taper Takım bağlama aparatı HSK-A 63 konik Dimensions/Boyutlar: 85x100x70mm	65.00
TBAHSK80	Tool clamping unit HSK-A 80 Taper Takım bağlama aparatı HSK-A 80 konik Dimensions/Boyutlar: 100x120x70mm	85.00
TBAHSK100	Tool clamping unit HSK-A 100 Taper Takım bağlama aparatı HSK-A 100 konik Dimensions/Boyutlar: 120x130x70mm	100.00

Massive steel construction, usable both vertical and horizontal position,  
Masif çelik yapı, dikey ve yatay bağlama imkanı



### MULTI PURPOSE MITER FIXTURE / ÇOK AMAÇLI GÖNYE APARATI

CODE / KOD	Description / Tanımı	EURO
MITFIX	Massive steel construction, usable both vertical and horizontal position, fixing and workpiece or fixture, suitable for our tool clamping set / unit Dimensions: WidthxLengthxHeight 100x190x140mm Masif çelik yapı, dikey ve yatay konumda kullanım ve her tür iş parçası ve aparat bağlamaya uygun, ayrıca takım bağlama aparat ve setlerimize de uygundur Boyutlar: EnxBoyxYükseklik 100x190x140mm	30.00



### TOOLHOLDER STORAGE STAND / TAKIM TUTUCU STANDI

CODE / KOD	Description / Tanımı	EURO
TSUNI16	Toolholder storage stand 16 holes Universal design suits all tapers BT-DIN-ISO-SK 30-40-50 HSK 40-50-63-80 Dimensions: WidthxLengthxHeight 57x50x30mm Takım tutucu standı 16 hazneli Universal tasarım tüm koniklere uygun BT-DIN-ISO-SK 30-40-50 HSK 40-50-63-80 Boyutlar: EnxBoyxYükseklik 57x50x30mm	80.00

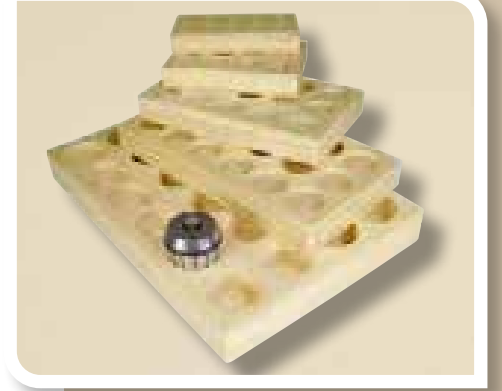


### TAPER CLEANER / KONİK TEMİZLEYİCİ

CODE / KOD	Description / Tanımı	EURO
TCL30	TAPER CLEANER SK30 / KONİK TEMİZLEYİCİ SK30	6.50
TCL40	TAPER CLEANER SK40 / KONİK TEMİZLEYİCİ SK40	7.00
TCL50	TAPER CLEANER SK50 / KONİK TEMİZLEYİCİ SK50	8.00
TCLHSK63	TAPER CLEANER HSK63 / KONİK TEMİZLEYİCİ HSK63	11.50

## WOODEN COLLET STANDS AĖŞAP PENS STANLARI

CODE / KOD	Collet to fit / Uygun pens tipi	EURO
WCS08	ER 8	6.50
WCS11	ER 11	6.50
WCS16	ER 16	6.50
WCS20	ER 20	6.50
WCS25	ER 25	8.80
WCS32	ER 32	10.00
WCS40	ER 40	14.50
WCS50	ER 50	14.50
WCSOZ	OZ25 DIN6388-25	14.50



**COLLET SETS ON WOODEN STANDS (Available on Request)**  
AĖŞAP STAND ÜZERİ PENS TAKIMLARI (Siparişe Yapılabilir)

## TOOLHOLDERS SPARES TAKIM TUTUCU YEDEKLERİ

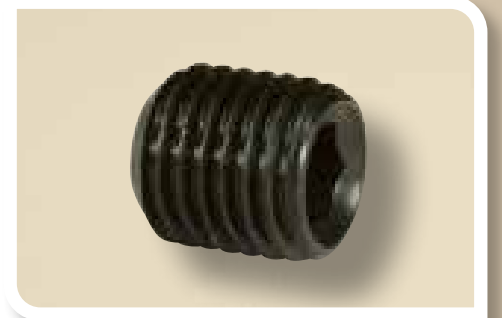
**FACE MILL ADAPTOR LOCK SCREW / ALIN FREZE TUTUCU SABİTLEME CİVATASI**

CODE / KOD	TOOLHOLDER REF. / TUTUCU REF.	SIZE / ÖLÇÜ	EURO
SCFM16	FACE MILL Ø16MM	M8	3.70
SCFM22	FACE MILL Ø22MM	M10	4.60
SCFM27	FACE MILL Ø27MM	M12	4.90
SCFM32	FACE MILL Ø32MM	M16	6.20
SCFM40	FACE MILL Ø40MM	M20	8.40



**WELDON ADAPTOR SIDE LOCK SCREW / WELDON TUTUCU SABİTLEME CİVATASI**

CODE / KOD	TOOLHOLDER REF. / TUTUCU REF.	SIZE / ÖLÇÜ	EURO
SCW06	WELDON Ø6MM	M6X10	1.20
SCW08	WELDON Ø8MM	M8X10	1.20
SCW10	WELDON Ø10MM	M10X12	1.75
SCW12	WELDON Ø12MM	M12X16	1.75
SCW14	WELDON Ø14MM	M12X16	1.75
SCW16	WELDON Ø16MM	M14X16	1.85
SCW18	WELDON Ø18MM	M14X16	1.85
SCW20	WELDON Ø20MM	M16X16	2.00
SCW25	WELDON Ø25MM	M18X2X20	3.30
SCW32	WELDON Ø32MM	M20X2X20	3.50
SCW40	WELDON Ø40MM	M20X2X20	3.50





## TOOLHOLDERS SPARES TAKIM TUTUCU YEDEKLERİ

### DRIVE RINGS FOR CM (COMBI) ADAPTORS KOMBİNE FREZE TUTUCU İÇİN İSTAVROZ PUL

CODE / KOD	SUITABLE HOLDER / UYGUN TUTUCULAR	EURO
DRCM16	DRIVE RING FOR CM16	7.50
DRCM22	DRIVE RING FOR CM22	8.60
DRCM27	DRIVE RING FOR CM27	9.80
DRCM32	DRIVE RING FOR CM32	10.90
DRCM40	DRIVE RING FOR CM40	12.00

### DRIVE KEY FOR FACE MILL HOLDER / ALIN FREZE KAMA VE VİDASI

CODE / KOD	SUITABLE HOLDER / UYGUN TUTUCULAR	EURO
DKFM16	FACE MILL Ø16MM	3.70
DKFM22	FACE MILL Ø22MM	4.20
DKFM27	FACE MILL Ø27MM	5.50
DKFM32	FACE MILL Ø32MM	5.00
DKFM40	FACE MILL Ø40MM	5.50

Prices for 1 key + 1 screw / Fiyatlar 1 kama + 1 vida içindir

### HSK63 COOLANT TUBE / SOĞUTUCU BORUSU

CODE / KOD	SUITABLE HOLDER / UYGUN TUTUCULAR	EURO
CTHSK63	HSK63	6.70

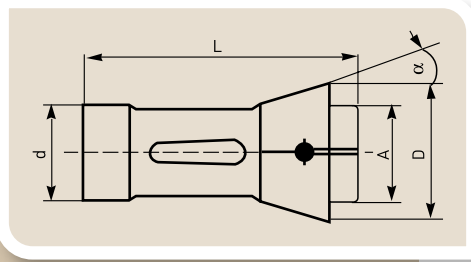
### HSK63 COOLANT TUBE SPANNER / HSK63 SOĞUTUCU BORUSU ANAHTARI

CODE / KOD	HOLDER TYPE TUTUCU TİPİ	EURO
SPHSK63	HSK63A	14.50



**DIN6343 WORKHOLDING COLLETS**  
*DIN6343 OTOMAT PENSLERİ*

## DIN 6343 WORKHOLDING COLLETS DIN 6343 OTOMAT PENSLERİ



### 136E (F20-201)

d:20 D:26 A:19 L:54  $\alpha$ :15°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
136E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	35.00
136E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	29.00
136E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-16mm	18.00
136E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-16mm	29.00
136E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-16mm	18.00
136E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-16mm	29.00
136E__RLS	ROUND LONG NOSE SMOOTH YUVARLAK UZUN BURUNLU KANALSIZ Ø 3-16MM	58.00
136E__H	HEXAGON / ALTIKÖŞE Ø 4-14mm	33.00
136E__S	SQUARE / KARE Ø 4-10mm	35.00

### 138E (F20-87)

d:20 D:28 A:21 L:67  $\alpha$ :16°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
138E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	35.00
138E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	29.00
138E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-16mm	18.00
138E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-16mm	29.00
138E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-16mm	18.00
138E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-16mm	29.00
138E__RLS	ROUND LONG NOSE SMOOTH YUVARLAK UZUN BURUNLU KANALSIZ Ø 3-16MM	58.00
138E__H	HEXAGON / ALTIKÖŞE Ø 4-14mm	33.00
138E__S	SQUARE / KARE Ø 4-10mm	35.00

Ordering example / Sipariş örneği:

138E085RS - 138E Ø 8.5mm Round Smooth

138E120H - 138E 12mm Hexagon



138E080S - 138E 8mm Square

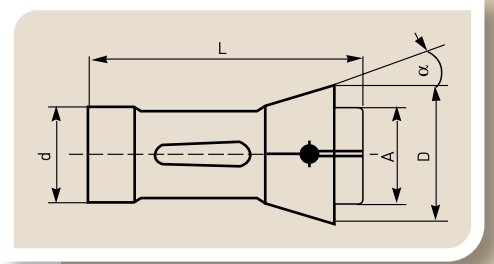
## DIN 6343 WORKHOLDING COLLETS

### DIN 6343 OTOMAT PENSLERİ

#### 140E (F22)



d:22 D:30 A:21 L:55  $\alpha$ :15°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
140E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	35.00
140E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	29.00
140E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-17mm	18.00
140E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-17mm	29.00
140E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 17.5-18.0mm	31.00
140E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-17mm	18.00
140E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-17mm	29.00
140E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 17.5-18.0mm	31.00
140E__H	 HEXAGON / ALTIKÖŞE Ø 4-14mm	33.00
140E__S	 SQUARE / KARE Ø 4-12mm	35.00



#### 145E (F25)

d:25 D:35 A:27 L:77  $\alpha$ :16°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
145E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	36.00
145E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	30.00
145E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-20mm	19.00
145E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-20mm	30.00
145E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 20.5-21mm	32.00
145E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-20mm	19.00
145E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-20mm	30.00
145E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 20.5-21mm	32.00
145E__RLS	ROUND LONG NOSE SMOOTH YUVARLAK UZUN BURUNLU KANALSIZ Ø 3-20MM	59.00
145E__H	 HEXAGON / ALTIKÖŞE Ø 4-16mm	34.00
145E__S	 SQUARE / KARE Ø 4-14mm	36.00

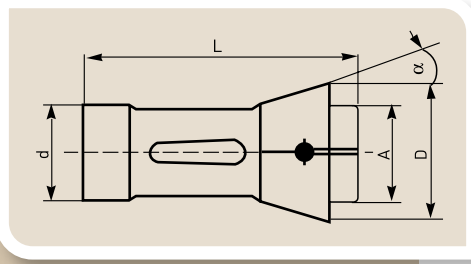
Ordering example / Sipariş örneği:

145E085RS - 145E Ø 8.5mm Round Smooth

145E120H - 145E 12mm Hexagon

145E080S - 145E 8mm Square

## DIN 6343 WORKHOLDING COLLETS DIN 6343 OTOMAT PENSLERİ



### 148E (F28)

d:28 D:38 A:28 L:70  $\alpha$ :15°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
148E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	36.00
148E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	30.00
148E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-23mm	19.00
148E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-23mm	30.00
148E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 23.5-24mm	32.00
148E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-23mm	19.00
148E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLA KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-23mm	30.00
148E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 23.5-24mm	32.00
148E__H	HEXAGON / ALTIKÖŞE Ø 4-20mm	34.00
148E__S	SQUARE / KARE Ø 4-16mm	36.00

### 1446E (EF30)

d:30 D:38 A:32 L:65  $\alpha$ :15°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
1446E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	41.00
1446E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	35.00
1446E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-25mm	24.00
1446E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-25mm	35.00
1446E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 25.5-26mm	39.00
1446E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-25mm	24.00
1446E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-25mm	35.00
1446E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 25.5-26mm	39.00
1446E__RLS	ROUND LONG NOSE SMOOTH YUVARLAK UZUN BURUNLU KANALSIZ Ø 3-25MM	64.00
1446E__H	HEXAGON / ALTIKÖŞE Ø 4-22mm	41.00
1446E__S	SQUARE / KARE Ø 4-18mm	43.00

Ordering example / Sipariş örneği:

148E085RS - 148E Ø 8.5mm Round Smooth

148E120H - 148E 12mm Hexagon

1446E010S - 1446E 10mm Square

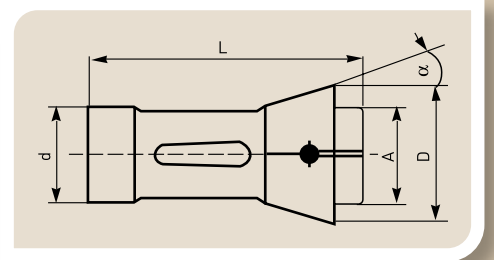
## DIN 6343 WORKHOLDING COLLETS

### DIN 6343 OTOMAT PENSLERİ

#### 161E (F32)

d:32 D:45 A:34 L:75  $\alpha$ :15°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
161E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	37.00
161E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	31.00
161E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-27mm	20.00
161E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-27mm	31.00
161E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 27.5-28mm	35.00
161E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-27mm	20.00
161E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-27mm	31.00
161E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 27.5-28mm	35.00
161E__RLS	ROUND LONG NOSE SMOOTH YUVARLAK UZUN BURUNLU KANALSIZ Ø 3-27MM	60.00
161E__H	HEXAGON / ALTIKÖŞE Ø 4-21mm	35.00
161E__S	SQUARE / KARE Ø 4-18mm	37.00



#### 162E (F35 76-2010 INDEX 25)

d:35 D:43 A:34 L:70  $\alpha$ :15°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
162E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	39.00
162E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	33.00
162E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-30mm	22.00
162E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-30mm	33.00
162E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 30.5-31mm	37.00
162E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-30mm	22.00
162E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-30mm	33.00
162E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 30.5-31mm	37.00
162E__H	HEXAGON / ALTIKÖŞE Ø 4-25mm	37.00
162E__S	SQUARE / KARE Ø 4-20mm	39.00

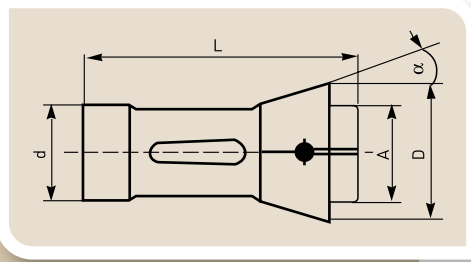
Ordering example / Sipariş örneği:

161E085RS - 161E Ø 8.5mm Round Smooth

161E120H - 161E 12mm Hexagon

161E120S - 161E 12mm Square

## DIN 6343 WORKHOLDING COLLETS DIN 6343 OTOMAT PENSLERİ



### 163E (F35)

d:35 D:48 A:38 L:80  $\alpha$ :15°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
163E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	38.00
163E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	32.00
163E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-30mm	21.00
163E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-30mm	32.00
163E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 30.5-31mm	36.00
163E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-30mm	21.00
163E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-30mm	32.00
163E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 30.5-31mm	36.00
163E__RLS	ROUND LONG NOSE SMOOTH YUVARLAK UZUN BURUNLU KANALSIZ 3-30MM	61.00
163E__H	HEXAGON / ALTİKÖŞE Ø 4-25mm	36.00
163E__S	SQUARE / KARE Ø 4-20mm	38.00

### 1536E (F37)

d:37 D:47 A:40 L:92  $\alpha$ :16°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
1536E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	46.00
1536E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	40.00
1536E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-32mm	29.00
1536E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-32mm	40.00
1536E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 32.5-33mm	44.00
1536E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-32mm	29.00
1536E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-32mm	40.00
1536E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 32.5-33mm	44.00
1536E__RLS	ROUND LONG NOSE SMOOTH YUVARLAK UZUN BURUNLU KANALSIZ 3-32MM	69.00
1536E__H	HEXAGON / ALTİKÖŞE Ø 4-27mm	46.00
1536E__S	SQUARE / KARE Ø 4-22mm	48.00

Ordering example / Sipariş örneği:

163E085RS - 163E Ø 8.5mm Round Smooth

163E120H - 163E 12mm Hexagon



1536E120S - 1536E 12mm Square

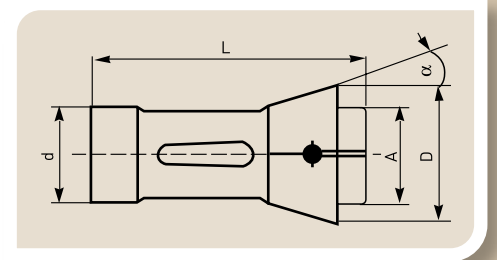
## DIN 6343 WORKHOLDING COLLETS

### DIN 6343 OTOMAT PENSLERİ

#### 164E (F38)



d:38.08 D:49 A:38 L:108  $\alpha$ :15°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
164E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	56.00
164E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	48.00
164E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-32mm	35.00
164E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-32mm	46.00
164E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 32.5-34mm	50.00
164E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-32mm	35.00
164E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-32mm	46.00
164E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 32.5-34mm	50.00
164E__RLS	ROUND LONG NOSE SMOOTH YUVARLAK UZUN BURUNLU KANALSIZ 3-32MM	75.00
164E__H	 HEXAGON / ALTİKÖŞE Ø 4-27mm	55.00
164E__S	 SQUARE / KARE Ø 4-22mm	58.00



#### 171E (F42)

d:42 D:55 A:42 L:94  $\alpha$ :15°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
171E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	46.00
171E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	40.00
171E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-36mm	29.00
171E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-36mm	40.00
171E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 36.5-38mm	44.00
171E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-36mm	29.00
171E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-36mm	40.00
171E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 36.5-38mm	44.00
171E__H	 HEXAGON / ALTİKÖŞE Ø 4-32mm	46.00
171E__S	 SQUARE / KARE Ø 4-25mm	48.00

Ordering example / Sipariş örneği:

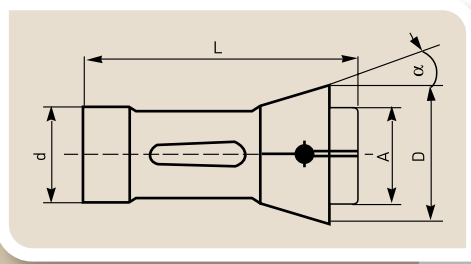
164E085RS - 164E Ø 8.5mm Round Smooth

164E120H - 164E 12mm Hexagon

171E120S - 171E 12mm Square



## DIN 6343 WORKHOLDING COLLETS DIN 6343 OTOMAT PENSLERİ



### 173E (F48)

d:48 D:60 A:50 L:94  $\alpha$ :15°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
173E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	46.00
173E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	40.00
173E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-42mm	29.00
173E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-42mm	40.00
173E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 42.5-44mm	44.00
173E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-42mm	29.00
173E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-42mm	40.00
173E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 42.5-44mm	44.00
173E__RLS	ROUND LONG NOSE SMOOTH YUVARLAK UZUN BURUNLU KANALSIZ 3-42MM	69.00
173E__H	HEXAGON / ALTIKÖŞE Ø 4-36mm	46.00
173E__S	SQUARE / KARE Ø 4-30mm	48.00

### 177E (F58)

d:58 D:70 A:60 L:94  $\alpha$ :15°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
177E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	58.00
177E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	52.00
177E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-52mm	41.00
177E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-52mm	52.00
177E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 52.5-54mm	56.00
177E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-52mm	41.00
177E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-52mm	52.00
177E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 52.5-54mm	56.00
177E__H	HEXAGON / ALTIKÖŞE Ø 4-45mm	64.00
177E__S	SQUARE / KARE Ø 4-36mm	66.00

Ordering example / Sipariş örneği:

173E085RS - 173E Ø 8.5mm Round Smooth



173E120H - 173E 12mm Hexagon

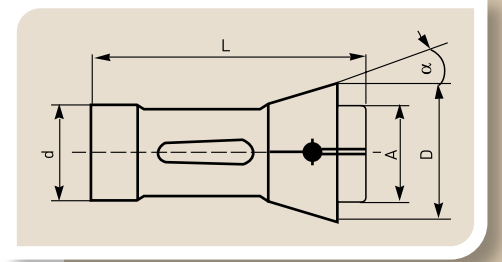
177E100S - 177E 10mm Square

## DIN 6343 WORKHOLDING COLLETS DIN 6343 OTOMAT PENSLERİ

**185E (F66)**

d:66 D:84 A:73 L:110  $\alpha$ :15°

CODE / KOD	BORE DETAILS / DELİK DETAYI	EURO
185E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 1-1.9mm	70.00
185E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 2-2.9mm	62.00
185E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 3-60mm	51.00
185E__RS	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALSIZ YARIM VE ONDALI ÇAPLAR Ø 3-60mm	62.00
185E__RS	ROUND SMOOTH / YUVARLAK KANALSIZ Ø 60.5-62mm	70.00
185E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 8-60mm	51.00
185E__RG	ROUND SMOOTH HALF AND INTERMEDIATE (0.1mm) DIAMETERS YUVARLAK KANALLI YARIM VE ONDALI ÇAPLAR Ø 8-60mm	62.00
185E__RG	ROUND GROOVED / YUVARLAK KANALLI Ø 60.5-62mm	70.00
185E__H	 HEXAGON / ALTİKÖŞE Ø 4-52mm	73.00
185E__S	 SQUARE / KARE Ø 4-42mm	75.00



Ordering example / Sipariş örneği:

185E085RS - 185E Ø 8.5mm Round Smooth

185E120H - 185E 12mm Hexagon

185E120S - 185E 12mm Square

**DIN 6343 WORKHOLDING COLLETS Multi Size clamping**  
**DIN 6343 OTOMAT PENSLERİ Çoklu ölçü sıkma**

**173E (F48) MULTI SIZE / ÇOKLU ÖLÇÜ**



CODE / KOD	clamping dia sıkma çapı Ømm	EURO	CODE / KOD	clamping dia sıkma çapı Ømm	EURO
173E050RMS	5.0 - 4.0	68.00	173E240RMS	24.0 - 23.0	68.00
173E060RMS	6.0 - 5.0	68.00	173E250RMS	25.0 - 24.0	68.00
173E070RMS	7.0 - 6.0	68.00	173E260RMS	26.0 - 25.0	68.00
173E080RMS	8.0 - 7.0	68.00	173E270RMS	27.0 - 26.0	68.00
173E090RMS	9.0 - 8.0	68.00	173E280RMS	28.0 - 27.0	68.00
173E100RMS	10.0 - 9.0	68.00	173E290RMS	29.0 - 28.0	68.00
173E110RMS	11.0 - 10.0	68.00	173E300RMS	30.0 - 29.0	68.00
173E120RMS	12.0 - 11.0	68.00	173E310RMS	31.0 - 30.0	68.00
173E130RMS	13.0 - 12.0	68.00	173E320RMS	32.0 - 31.0	68.00
173E140RMS	14.0 - 13.0	68.00	173E330RMS	33.0 - 32.0	68.00
173E150RMS	15.0 - 14.0	68.00	173E340RMS	34.0 - 33.0	68.00
173E160RMS	16.0 - 15.0	68.00	173E350RMS	35.0 - 34.0	68.00
173E170RMS	17.0 - 16.0	68.00	173E360RMS	36.0 - 35.0	68.00
173E180RMS	18.0 - 17.0	68.00	173E370RMS	37.0 - 36.0	68.00
173E190RMS	19.0 - 17.0	68.00	173E380RMS	38.0 - 37.0	68.00
173E200RMS	20.0 - 19.0	68.00	173E390RMS	39.0 - 38.0	68.00
173E210RMS	21.0 - 20.0	68.00	173E400RMS	40.0 - 39.0	68.00
173E220RMS	22.0 - 21.0	68.00	173E410RMS	41.0 - 40.0	68.00
173E230RMS	23.0 - 22.0	68.00	173E420RMS	42.0 - 41.0	68.00

**1.0mm clamping range / 1.0mm sıkma aralığı**

**Super elastic body clamps all diameters within 1.0mm range**

**Süper esnek yapı 1.0mm aralıkta tüm çapları sıkmayı sağlar.**

## DIN 6343 WORKHOLDING COLLETS Multi Size clamping DIN 6343 OTOMAT PENSLERİ Çoklu ölçü sıkma

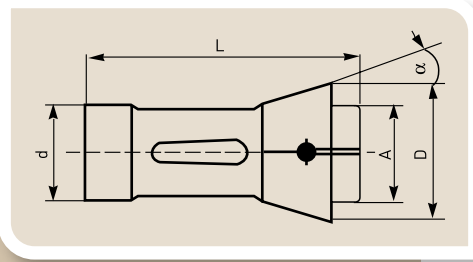
### 185E (F66) MULTI SIZE / ÇOKLU ÖLÇÜ

CODE / KOD	clamping dia sıkma çapı Ømm	EURO	CODE / KOD	clamping dia sıkma çapı Ømm	EURO
185E050RMS	5.0 - 4.0	92.00	185E330RMS	33.0 - 32.0	92.00
185E060RMS	6.0 - 5.0	92.00	185E340RMS	34.0 - 33.0	92.00
185E070RMS	7.0 - 6.0	92.00	185E350RMS	35.0 - 34.0	92.00
185E080RMS	8.0 - 7.0	92.00	185E360RMS	36.0 - 35.0	92.00
185E090RMS	9.0 - 8.0	92.00	185E370RMS	37.0 - 36.0	92.00
185E100RMS	10.0 - 9.0	92.00	185E380RMS	38.0 - 37.0	92.00
185E110RMS	11.0 - 10.0	92.00	185E390RMS	39.0 - 38.0	92.00
185E120RMS	12.0 - 11.0	92.00	185E400RMS	40.0 - 39.0	92.00
185E130RMS	13.0 - 12.0	92.00	185E410RMS	41.0 - 40.0	92.00
185E140RMS	14.0 - 13.0	92.00	185E420RMS	42.0 - 41.0	92.00
185E150RMS	15.0 - 14.0	92.00	185E430RMS	43.0 - 42.0	92.00
185E160RMS	16.0 - 15.0	92.00	185E440RMS	44.0 - 43.0	92.00
185E170RMS	17.0 - 16.0	92.00	185E450RMS	45.0 - 44.0	92.00
185E180RMS	18.0 - 17.0	92.00	185E460RMS	46.0 - 45.0	92.00
185E190RMS	19.0 - 17.0	92.00	185E470RMS	47.0 - 46.0	92.00
185E200RMS	20.0 - 19.0	92.00	185E480RMS	48.0 - 47.0	92.00
185E210RMS	21.0 - 20.0	92.00	185E490RMS	49.0 - 48.0	92.00
185E220RMS	22.0 - 21.0	92.00	185E500RMS	50.0 - 49.0	92.00
185E230RMS	23.0 - 22.0	92.00	185E510RMS	51.0 - 50.0	92.00
185E240RMS	24.0 - 23.0	92.00	185E520RMS	52.0 - 51.0	92.00
185E250RMS	25.0 - 24.0	92.00	185E530RMS	53.0 - 52.0	92.00
185E260RMS	26.0 - 25.0	92.00	185E540RMS	54.0 - 53.0	92.00
185E270RMS	27.0 - 26.0	92.00	185E550RMS	55.0 - 54.0	92.00
185E280RMS	28.0 - 27.0	92.00	185E560RMS	56.0 - 55.0	92.00
185E290RMS	29.0 - 28.0	92.00	185E570RMS	57.0 - 56.0	92.00
185E300RMS	30.0 - 29.0	92.00	185E580RMS	58.0 - 57.0	92.00
185E310RMS	31.0 - 30.0	92.00	185E590RMS	59.0 - 58.0	92.00
185E320RMS	32.0 - 31.0	92.00	185E600RMS	60.0 - 59.0	92.00



**1.0mm clamping range / 1.0mm sıkma aralığı**  
**Super elastic body clamps all diameters within 1.0mm range**  
**Süper esnek yapı 1.0mm aralıkta tüm çapları sıkmayı sağlar.**

## DIN 6343 WORKHOLDING COLLETS OTHER TYPES DIN 6343 OTOMAT PENSLERİ DİĞER TİPLER

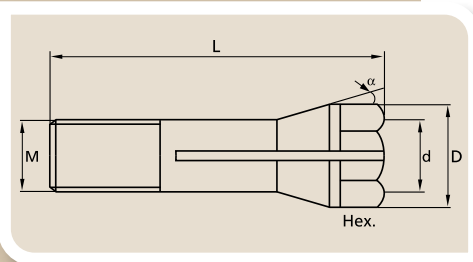


CODE KOD	Type Tip	clamping dia sıkma çapı	d	D	A	L	$\alpha$	EURO
405F___RS	F4.5	Ø 1-2	4.5	6.75	4.5	17.3	15°	48.00
405F___RS	F4.5	Ø 2.5-4	4.5	6.75	4.5	17.3	15°	38.00
101E___RS	101E (F8)	Ø 1-2	8	12	8	42	16°	38.00
101E___RS	101E (F8)	Ø 2.5-6	8	12	8	42	16°	29.00
109E___RS	109E (F10)	Ø 1-2	10	15.5	10	47.5	20°	38.00
109E___RS	109E (F10)	Ø 2.5-8	10	15.5	10	47.5	20°	29.00
116E___RS	116E (F13)	Ø 1-2	13	19	13	64	16°	38.00
116E___RS	116E (F13)	Ø 2.5-10	13	19	13	64	16°	29.00
120E___RS	120E (F15)	Ø 1-2	15	21	15	64	16°	38.00
120E___RS	120E (F15)	Ø 2.5-12	15	21	15	64	16°	29.00
1212E___RS	1212E (F16)	Ø 1-2	16	21	16	64	16°	38.00
1212E___RS	1212E (F16)	Ø 2.5-13	16	21	16	64	16°	29.00

Ø 8mm and above is also available with grooved bore  
Ø 8mm ve üstü için kanallı delik te mevcuttur

Ordering example / Sipariş örneği:  
120E085RS - 120E Ø 8.5mm Round Smooth

## 600E COLLETS With Hexagon Head 600E PENSLER Altıköşe Başlı



### 600E

d:6 D:9 L:28.5 M:6X0.75 HEX:7  $\alpha$ :10°

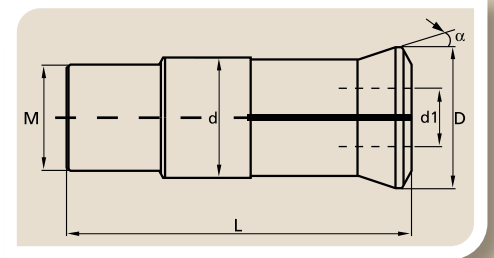
CODE KOD	Clamping Dia Sıkma Çapı Ø mm	EURO
600E010	1.0	48.00
600E015	1.5	48.00
600E020	2.0	42.00
600E025	2.5	42.00
600E030	3.0	34.00
600E0318	1/8"	34.00
600E035	3.5	34.00
600E040	4.0	34.00

## GUIDE BUSHES WITH CARBIDE BORE YATAKLAMA SÜRÜCÜ PENSLER KARBÜR DELİKLİ

CODE KOD	d1 range Ø2-20mm	d	D	L	M	$\alpha$	EURO
T223..R	2-3-4-5mm	28	34	82	M25x1	16°	115.00
T223..R	6-7-8mm	28	34	82	M25x1	16°	125.00
T223..R	9-10-11mm	28	34	82	M25x1	16°	135.00
T223..R	12-13-14mm	28	34	82	M25x1	16°	145.00
T223..R	15-16-17mm	28	34	82	M25x1	16°	160.00
T223..R	18-19-20mm	28	34	82	M25x1	16°	185.00

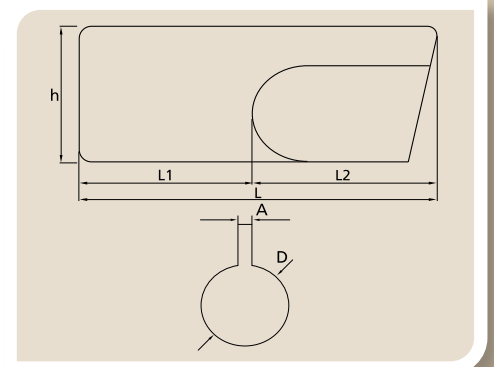
Ordering example for T223 Ø12mm Code: T223120R  
Sipariş örneği T223 Ø12mm için Kod: T223120R

Other guide bushes are available on request  
Diğer yataklama pensleri sipariş için arayınız.



## DIN 6343 COLLET RUBBER PLUGS DIN 6343 PENS LASTİK TIPALARI

CODE KOD	NR	SUITABLE COLLETS TAKILAN PENSLER	D	A	h	L	L1	L2	Euro
RP63431	NR. 1	136E-138E-140E 145E 145E	5.3	1.0	7.0	18.0	15.0	3.0	0.25
RP63432	NR. 2	140E-145E-148E 161E-1446E	5.4	1.6	7.5	16.0	11.0	5.0	0.25
RP63433	NR. 3	148E-161E-163E 164E-1536E	5.5	1.3	7.0	24.0	18.0	6.0	0.25
RP63434	NR. 4	163E-164E 1536E-171E	5.6	2.0	7.5	18.0	12.0	6.0	0.25
RP63435	NR. 5	171E-173E-177E	5.7	2.0	7.0	27.0	19.0	8.0	0.25
RP63436	NR. 6	173E-177E-185E	6.0	2.0	8.0	35.0	25.0	10.0	0.25
RP63437	NR. 7	177E-185E	6.5	2.5	9.0	40.0	26.0	14.0	0.30



**EXTENDED COLLET DIAMETERS**  
**GENİŞLETİLMİŞ PENS ÇAPLARI**

ER8 - Ø 5.5	ER25 - Ø 20
ER11 - Ø 8	ER32 - Ø 25
ER16 - Ø 12.5	ER40 - Ø 32
ER20 - Ø 16	ER50 - Ø 40
OZ25 - Ø 32	



**ENABLES YOU TO HOLD  
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TUTMANIZI SAĞLAR**



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Tel: +90 212 5493424 [gurkan@gurkan.com](mailto:gurkan@gurkan.com)

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