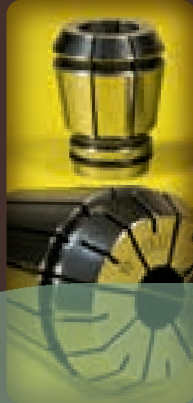


2023



TOOLHOLDERS AND COLLETS
TAKIM TUTUCULAR VE PENSLER





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59 yıllık tecrübe...



TOOLHOLDERS & COLLETS
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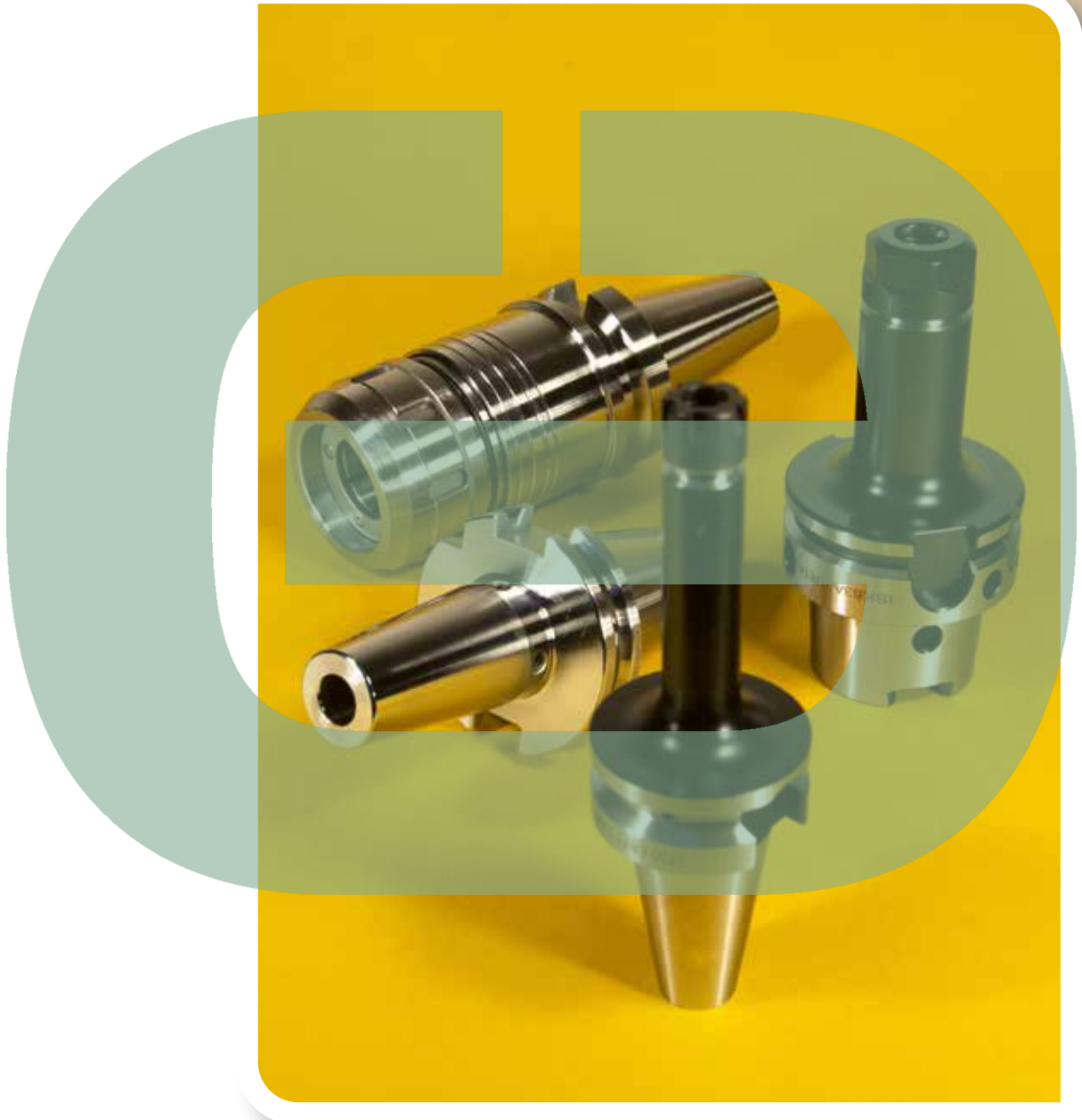
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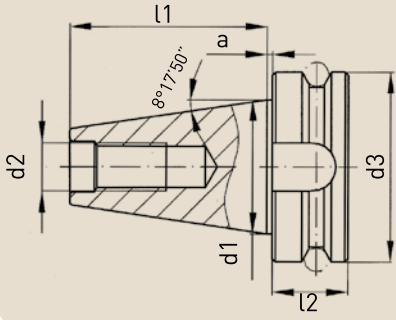




TOOLHOLDERS
TAKIM TUTUCULAR

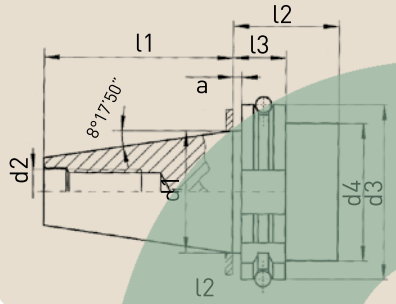


TOOLHOLDERS TAPER STANDARDS TAKIM TUTUCU KONİK STANDARTLARI



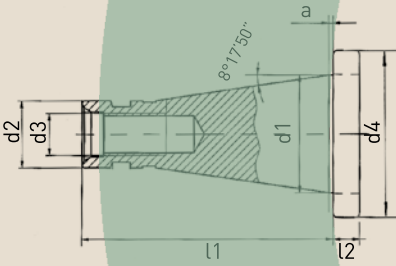
MAS 403 BT (JIS B 6339)

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



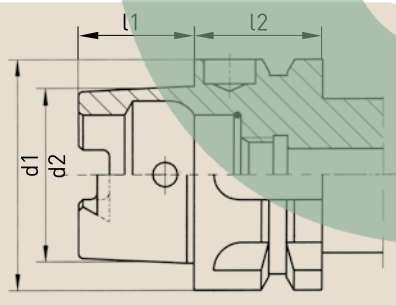
DIN 69871 A (ISO 7388-1)

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



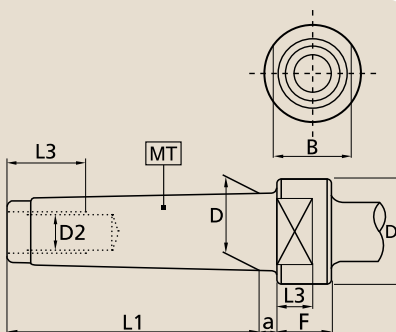
DIN 2080 (ISO)

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	
BT30 ER16	60	28	ER16 Ø1-12mm	
BT30 ER16 100	100	28	ER16 Ø1-12mm	
BT30 ER25	60	42	ER25 Ø1-20mm	
BT30 ER32	60	50	ER32 Ø1-25mm	
BT30 ER32 100	100	50	ER32 Ø1-25mm	
BT30 ER40	70	63	ER40 Ø1-32mm	

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	
BT40 ER16	60	28	ER16 Ø1-12mm	
BT40 ER16 100	100	28	ER16 Ø1-12mm	
BT40 ER16 130M	130	22	ER16 Ø1-12mm	
BT40 ER16 160	160	28	ER16 Ø1-12mm	
BT40 ER20	70	34	ER20 Ø2-16mm	
BT40 ER20 100	100	34	ER20 Ø2-16mm	
BT40 ER25	70	42	ER25 Ø1-20mm	
BT40 ER25 100	100	42	ER25 Ø1-20mm	
BT40 ER25 160	160	42	ER25 Ø1-20mm	
BT40 ER32	70	50	ER32 Ø1-25mm	
BT40 ER32 100	100	50	ER32 Ø1-25mm	
BT40 ER32 160	160	50	ER32 Ø1-25mm	
BT40 ER40	70	63	ER40 Ø1-32mm	
BT40 ER40 100	100	63	ER40 Ø1-32mm	
BT40 ER40 160	160	63	ER40 Ø1-32mm	

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	
BT50 ER16 160	160	28	ER16 Ø1-12mm	
BT50 ER25	100	42	ER25 Ø1-20mm	
BT50 ER25 160	160	42	ER25 Ø1-20mm	
BT50 ER32	100	50	ER32 Ø1-25mm	
BT50 ER32 160	160	50	ER32 Ø1-25mm	
BT50 ER40	100	63	ER40 Ø1-32mm	
BT50 ER40 160	160	63	ER40 Ø1-32mm	
BT50 ER50	100	78	ER50 Ø6-40mm	

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	



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	
BT30 FM22	22	48	40	
BT30 FM27	27	58	40	
BT30 FM32	27	78	50	

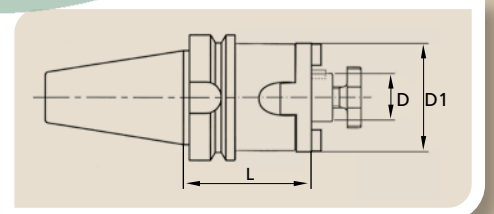
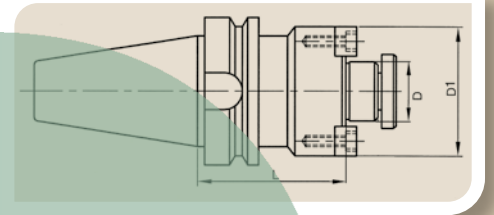
CODE / KOD BT 40	D	D1	L	EURO
BT40 FM16	16	38	40	
BT40 FM16 100	16	38	100	
BT40 FM16 160	16	38	160	
BT40 FM22	22	48	45	
BT40 FM22 100	22	48	100	
BT40 FM22 160	22	48	160	
BT40 FM27	27	58	45	
BT40 FM27 100	27	58	100	
BT40 FM27 160	27	58	160	
BT40 FM32	32	78	50	
BT40 FM32 100	32	78	100	
BT40 FM32 160	32	78	160	
BT40 FM40	40	88	55	
BT40 FM40 100	40	88	100	

CODE / KOD BT 50	D	D1	L	EURO
BT50 FM16	16	38	55	
BT50 FM16 100	16	38	100	
BT50 FM22	22	48	55	
BT50 FM22 100	22	48	100	
BT50 FM27	27	58	55	
BT50 FM27 100	27	58	100	
BT50 FM32	32	78	55	
BT50 FM32 100	32	78	100	
BT50 FM40	40	88	55	
BT50 FM40 100	40	88	100	

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	
BT40 CM22	22	40	55	
BT40 CM27	27	48	55	
BT40 CM32	32	58	60	
BT40 CM40	40	70	60	



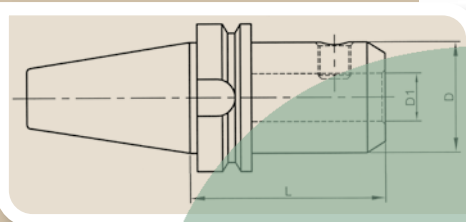
WELDON ADAPTORS WELDON TUTUCULAR

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

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

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

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



MORSE TAPER ADAPTORS

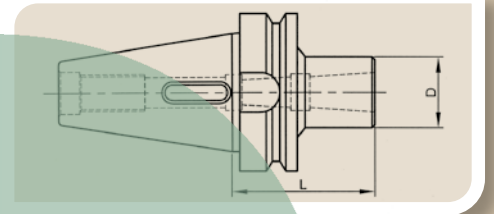
MORS KONİK TUTUCUSU

JIS B 6339 (MAS403 BT) Balanced G6.3

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

* 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.

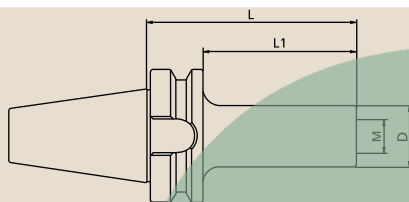


CODE / KOD BT 50	MT	D	L	EURO
BT50 MT1	1	25	45	
BT50 MT2	2	32	60	
BT50 MT3	3	40	65	
BT50 MT4	4	48	95	
BT50 MT5	5	63	105	

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	
BT40 M12 100	M12	21	100	73	
BT40 M12 130	M12	21	130	103	
BT40 M16 75	M16	29	75	48	
BT40 M16 100	M16	29	100	73	
BT40 M16 130	M16	29	130	103	

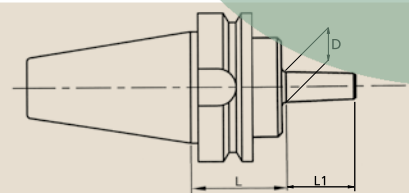


DRILL CHUCK ADAPTORS MANDREN TUTUCUSU

JIS B 6339 (MAS403 BT)

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

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

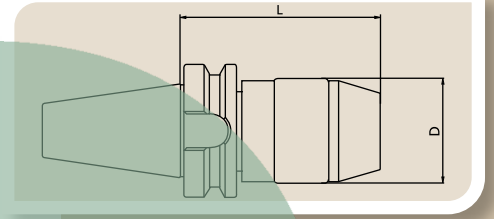


PRECISION DRILL CHUCK HOLDER HASSAS MATKAP MANDRENLİ TUTUCU

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	
BT40 PD16	1-16mm	50	90	

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

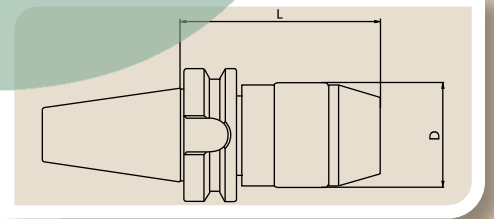
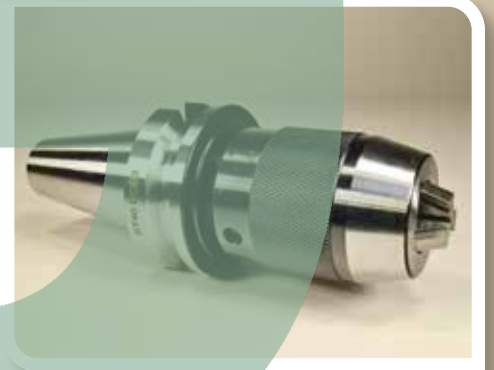


DRILL CHUCK HOLDER (Eco Type)* MATKAP MANDRENLİ TUTUCU (Eko Tip)*

JIS B 6339 (MAS403 BT)

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

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



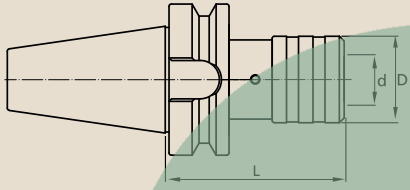
* Suitable when high precision is not required. / Yüksek hassasiyet gerektirmeyen durumlarda uygundur.

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	
BT40 TC2	M5 - M24	31	53	96	
BT40 TC3	M14 - M36	48	78	138	

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



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

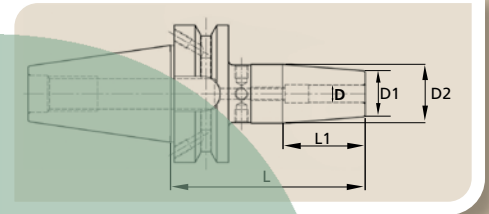
Please see details at page nr. 131
Detaylar için sayfa 131 e bakınız.



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	-	
BT40 SF06 90	6	21	27	90	36	
BT40 SF08 90	8	21	27	90	36	
BT40 SF10 90	10	24	32	90	42	
BT40 SF12 90	12	24	32	90	47	
BT40 SF16 90	16	27	34	90	50	
BT40 SF20 90	20	33	42	90	52	
BT40 SF25 100	25	44	53	100	58	
BT40 SF32 100	32	44	53	100	62	

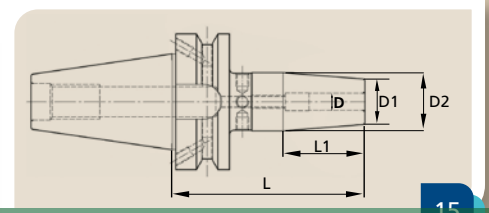


CODE / KOD BT50	D	D1	D2	L	L1	EURO
BT50 SF06 100	6	21	27	100	36	
BT50 SF08 100	8	21	27	100	36	
BT50 SF10 100	10	24	32	100	42	
BT50 SF12 100	12	24	32	100	47	
BT50 SF16 100	16	27	34	100	50	
BT50 SF20 100	20	33	42	100	52	
BT50 SF25 110	25	44	53	110	58	
BT50 SF32 110	32	44	53	110	72	

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	
BT40 SF06 160	6	21	32	160	36	
BT40 SF08 160	8	21	32	160	36	
BT40 SF10 160	10	24	34	160	42	
BT40 SF12 160	12	24	34	160	47	



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	
BT40 HY08 80	8	28	50	80	
BT40 HY10 80	10	30	50	80	
BT40 HY12 90	12	32	50	90	
BT40 HY16 90	16	38	50	90	
BT40 HY20 95	20	42	50	95	
BT40 HY25 105	25	50	50	105	
BT40 HY32 110	32	60	60	110	

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

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.

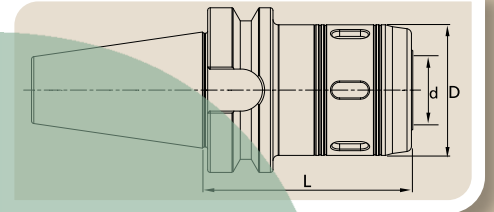


HIGH POWER HP MILLING CHUCK YÜKSEK SIKMA GÜÇLÜ HP FREZE TUTUCUSU

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

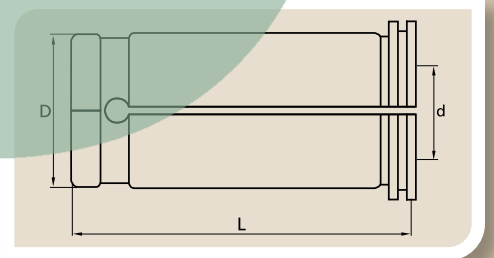
CODE / KOD BT 40	TAPER / KONİK	d	D	L	EURO
BT40HP20	BT40	20	50	90	
BT40HP25	BT40	25	59	105	
BT40HP32	BT40	32	70	105	

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



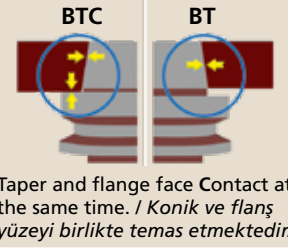
STRAIGHT (CYLINDRICAL) REDUCTION COLLETS FOR HP MILLING CHUCKS DÜZ (SİLİNDİRİK) REDÜKSİYON PENSLER, HP FREZE TUTUCULARI İÇİN

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



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



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	
BTC40 ER16 100	100	28	ER16 Ø1-12mm	
BTC40 ER25	70	42	ER25 Ø1-20mm	
BTC40 ER25 100	100	42	ER25 Ø1-20mm	
BTC40 ER32	70	50	ER32 Ø1-25mm	
BTC40 ER32 100	100	50	ER32 Ø1-25mm	
BTC40 ER40	70	63	ER40 Ø1-32mm	
BTC40 ER40 100	100	63	ER40 Ø1-32mm	

BTC40 FACE MILL ADAPTORS / ALINDAN SIKMALI FREZE TUTUCULAR

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

BTC40 WELDON ADAPTORS / WELDON TUTUCULAR

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





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	
DIN30 ER16	60	28	ER16 Ø1-12mm	
DIN30 ER16 100	100	28	ER16 Ø1-12mm	
DIN30 ER25	60	42	ER25 Ø1-20mm	
DIN30 ER32	60	50	ER32 Ø1-25mm	
DIN30 ER32 100	100	50	ER32 Ø1-25mm	
DIN30 ER40	70	63	ER40 Ø1-32mm	

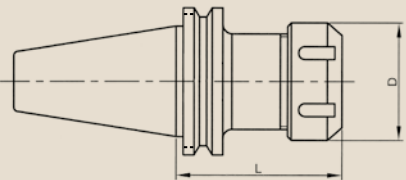
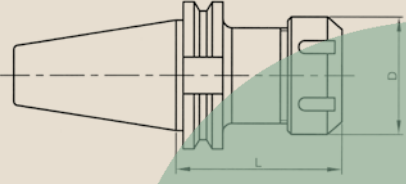
CODE / KOD DIN 40	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
DIN40 ER11 100M	100	16	ER11 Ø1-8mm	
DIN40 ER16	60	28	ER16 Ø1-12mm	
DIN40 ER16 100	100	28	ER16 Ø1-12mm	
DIN40 ER16 130M	130	22	ER16 Ø1-12mm	
DIN40 ER16 160	160	28	ER16 Ø1-12mm	
DIN40 ER20	70	34	ER20 Ø2-16mm	
DIN40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

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	
DIN50 ER16 160	160	28	ER16 Ø1-12mm	
DIN50 ER25	100	42	ER25 Ø1-20mm	
DIN50 ER25 160	160	42	ER25 Ø1-20mm	
DIN50 ER32	100	50	ER32 Ø1-25mm	
DIN50 ER32 160	160	50	ER32 Ø1-25mm	
DIN50 ER40	100	63	ER40 Ø1-32mm	
DIN50 ER40 160	160	63	ER40 Ø1-32mm	
DIN50 ER50	100	78	ER50 Ø6-40mm	

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	



FACE MILL ADAPTORS

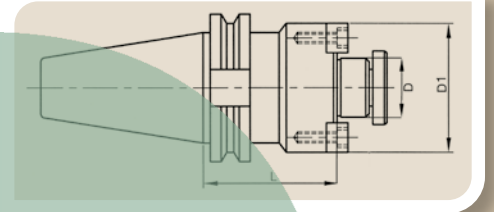
ALINDAN SIKMALI FREZE TUTUCULAR

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

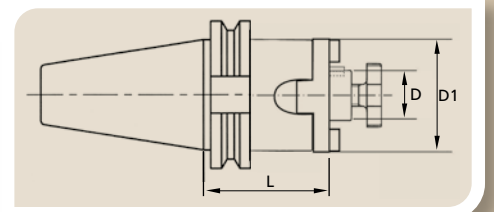
CODE / KOD DIN 30	D	D1	L	EURO
DIN30 FM16	16	38	40	
DIN30 FM22	22	48	40	
DIN30 FM27	27	58	40	
DIN30 FM32	32	78	50	



CODE / KOD DIN 40	D	D1	L	EURO
DIN40 FM16	16	38	35	
DIN40 FM16 100	16	38	100	
DIN40 FM16 160	16	38	160	
DIN40 FM22	22	48	35	
DIN40 FM22 100	22	48	100	
DIN40 FM22 160	22	48	160	
DIN40 FM27	27	58	40	
DIN40 FM27 100	27	58	100	
DIN40 FM27 160	27	58	160	
DIN40 FM32	32	78	50	
DIN40 FM32 100	32	78	100	
DIN40 FM32 160	32	78	160	
DIN40 FM40	40	88	50	
DIN40 FM40 100	40	88	100	



CODE / KOD DIN 50	D	D1	L	EURO
DIN50 FM16	16	38	45	
DIN50 FM16 100	16	38	100	
DIN50 FM22	22	48	45	
DIN50 FM22 100	22	48	100	
DIN50 FM27	27	58	45	
DIN50 FM27 100	27	58	100	
DIN50 FM32	32	78	55	
DIN50 FM32 100	32	78	100	
DIN50 FM40	40	88	55	
DIN50 FM40 100	40	88	100	



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	
DIN40 CM22	22	40	55	
DIN40 CM27	27	48	55	
DIN40 CM32	32	58	60	
DIN40 CM40	40	70	60	



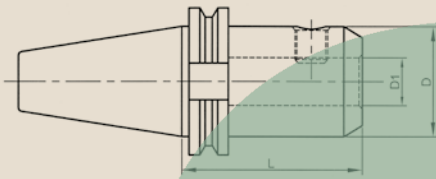
WELDON ADAPTORS WELDON TUTUCULAR

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

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

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

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



MORSE TAPER ADAPTORS

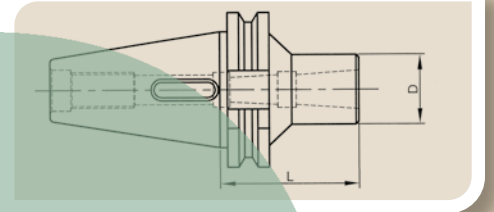
MORS KONİK TUTUCUSU

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

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

* 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.

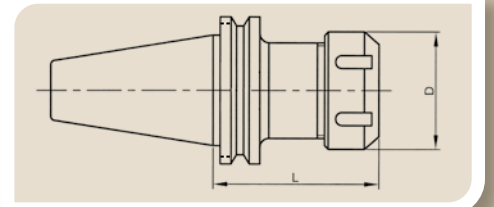


CODE / KOD DIN 50	MT	D	L	EURO
DIN50 MT1	1	25	45	
DIN50 MT2	2	32	60	
DIN50 MT3	3	40	65	
DIN50 MT4	4	48	95	
DIN50 MT5	5	63	105	

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	
DIN40 OZ32	80	72	OZ32 Ø4-32mm	



TOOLHODER FOR SCREW IN TYPE CUTTERS VİDALI TİP TAKIM TUTUCUSU

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

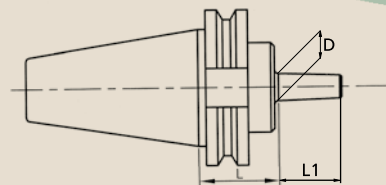
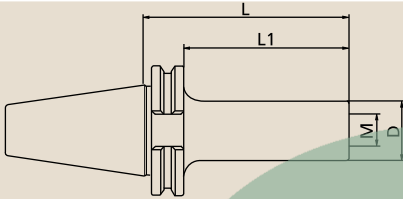
CODE / KOD DIN 40	M	D	L	L1	EURO
DIN40 M12 75	M12	21	75	56	
DIN40 M12 100	M12	21	100	81	
DIN40 M12 130	M12	21	130	111	
DIN40 M16 75	M16	29	75	56	
DIN40 M16 100	M16	29	100	81	
DIN40 M16 130	M16	29	130	111	

DRILL CHUCK ADAPTORS MANDREN TUTUCUSU

DIN 69871 (ISO7388-1)

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

CODE / KOD DIN 50	D	L	L1	EURO
DIN50 B16	B16	25	24	
DIN50 B18	B18	35	32	

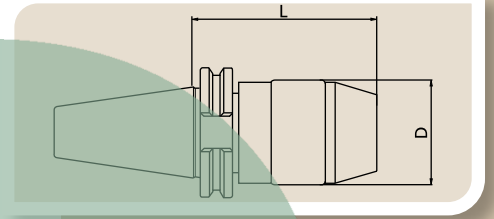


PRECISION DRILL CHUCK HOLDER HASSAS MATKAP MANDRENLİ TUTUCU

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	
DIN40 PD16	1-16mm	50	90	

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

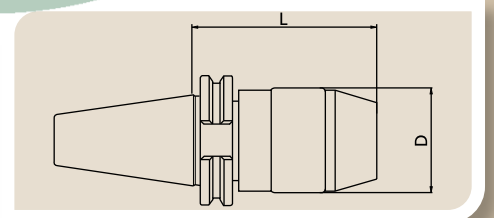


DRILL CHUCK HOLDER (Eco Type)* MATKAP MANDRENLİ TUTUCU (Eko Tip)*

DIN 69871 (ISO7388-1)

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

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



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

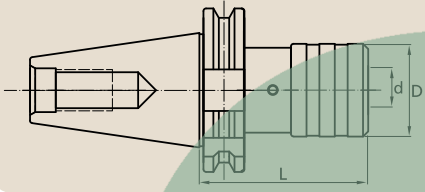
TAPPING CHUCKS KILAVUZ ÇEKME BAŞLIKLARI



DIN 69871 (ISO7388-1)

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

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



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

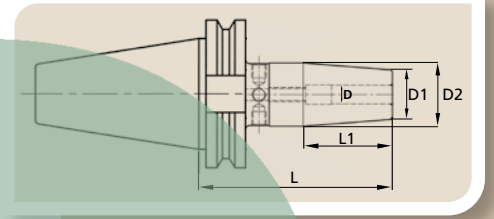
Please see details at page nr. 131
Detaylar için sayfa 131 e bakınız.



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	-	
DIN40 SF06 80	6	21	27	80	36	
DIN40 SF08 80	8	21	27	80	36	
DIN40 SF10 80	10	24	32	80	42	
DIN40 SF12 80	12	24	32	80	47	
DIN40 SF16 80	16	27	34	80	50	
DIN40 SF20 80	20	33	42	80	52	
DIN40 SF25 100	25	44	50	100	58	
DIN40 SF32 100	32	44	50	100	62	

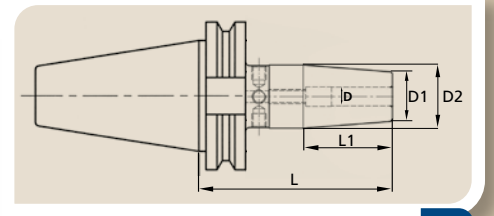


CODE / KOD DIN 50	D	D1	D2	L	L1	EURO
DIN50 SF06 80	6	21	27	80	36	
DIN50 SF08 80	8	21	27	80	36	
DIN50 SF10 80	10	24	32	80	42	
DIN50 SF12 80	12	24	32	80	47	
DIN50 SF16 80	16	27	34	80	50	
DIN50 SF20 80	20	33	42	80	52	
DIN50 SF25 100	25	44	53	100	58	
DIN50 SF32 100	32	44	53	100	62	

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	
DIN40 SF06 160	6	21	32	160	36	
DIN40 SF08 160	8	21	32	160	36	
DIN40 SF10 160	10	24	34	160	42	
DIN40 SF12 160	12	24	34	160	47	



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	
DIN40 HY08 75	8	28	50	75	
DIN40 HY10 75	10	30	50	75	
DIN40 HY12 80	12	32	50	80	
DIN40 HY16 85	16	38	50	85	
DIN40 HY20 90	20	42	50	90	
DIN40 HY25 110	25	50	50	110	
DIN40 HY32 115	32	60	60	115	

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

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.

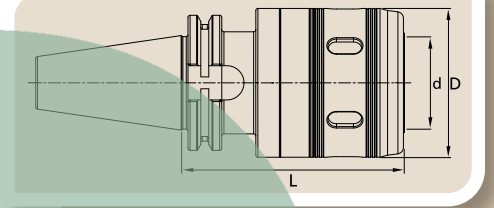


HIGH POWER HP MILLING CHUCK YÜKSEK SIKMA GÜÇLÜ HP FREZE TUTUCUSU

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

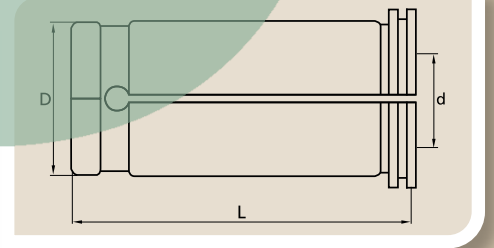
CODE / KOD DIN 40	TAPER / KONİK	d	D	L	EURO
DIN40HP20	DIN40	20	50	85	
DIN40HP25	DIN40	25	59	100	
DIN40HP32	DIN40	32	70	105	

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



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	
SC2004	20	4	50	
SC2005	20	5	50	
SC2006	20	6	50	
SC2008	20	8	50	
SC2010	20	10	50	
SC2012	20	12	50	
SC2014	20	14	50	
SC2016	20	16	50	
SC2503	25	3	60	
SC2504	25	4	60	
SC2505	25	5	60	
SC2506	25	6	60	
SC2508	25	8	60	
SC2510	25	10	60	
SC2512	25	12	60	
SC2514	25	14	60	
SC2516	25	16	60	
SC2518	25	18	60	
SC2520	25	20	60	
SC3204	32	4	65	
SC3205	32	5	65	
SC3206	32	6	65	
SC3208	32	8	65	
SC3210	32	10	65	
SC3212	32	12	65	
SC3214	32	14	65	
SC3216	32	16	65	
SC3218	32	18	65	
SC3220	32	20	65	
SC3225	32	25	65	



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	
ISO30 ER25	50	42	ER25 Ø1-20mm	
ISO30 ER32	50	50	ER32 Ø1-25mm	
ISO30 ER40	60	63	ER40 Ø1-32mm	

CODE / KOD ISO 40 DIN2080

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	
ISO40 ER25	60	42	ER25 Ø1-20mm	
ISO40 ER32	60	50	ER32 Ø1-25mm	
ISO40 ER40	60	63	ER40 Ø1-32mm	

CODE / KOD ISO 50 DIN2080

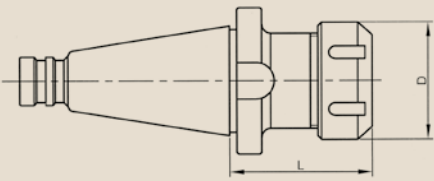
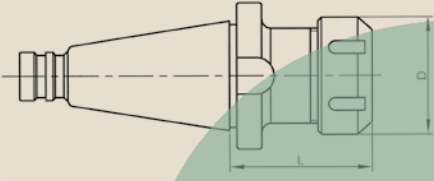
CODE / KOD ISO 50 DIN2080	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
ISO50 ER25	70	42	ER25 Ø1-20mm	
ISO50 ER32	70	50	ER32 Ø1-25mm	
ISO50 ER40	70	63	ER40 Ø1-32mm	
ISO50 ER50	90	78	ER50 Ø6-40mm	

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	
ISO40 OZ32	80	72	OZ32 Ø4-32mm	

CODE / KOD ISO 50 DIN2080

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	



FACE MILL ADAPTORS

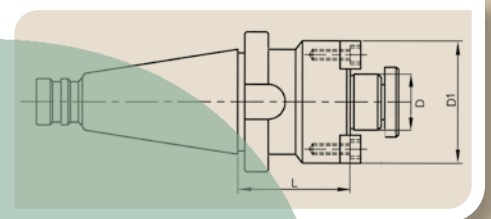
ALINDAN SIKMALI FREZE TUTUCULAR

DIN 2080 ISO

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

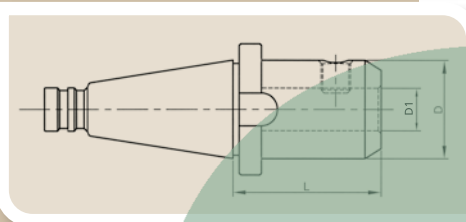


CODE / KOD ISO 40 DIN2080	D	D1	L	EURO
ISO40 FM16	16	38	30	
ISO40 FM22	22	48	30	
ISO40 FM27	27	58	30	
ISO40 FM32	32	78	30	
ISO40 FM40	40	88	30	



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

WELDON ADAPTORS WELDON TUTUCULAR



DIN 2080 ISO

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

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

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



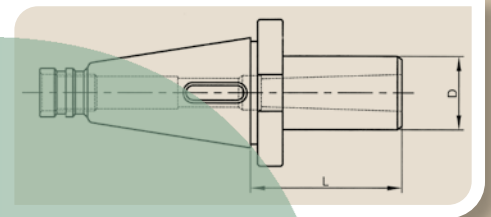
MORSE TAPER ADAPTORS MORS KONİK TUTUCUSU

DIN 2080 ISO

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



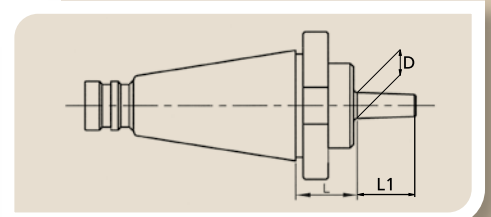
CODE / KOD ISO 50 DIN2080	MT	D	L	EURO
ISO50 MT2	2	32	60	
ISO50 MT3	3	40	65	
ISO50 MT4	4	48	70	
ISO50 MT5	5	63	105	



DRILL CHUCK ADAPTORS MANDREN TUTUCUSU

DIN 2080 ISO

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

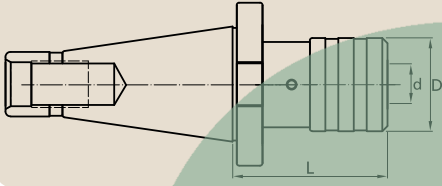


TAPPING CHUCKS KILAVUZ ÇEKME BAŞLIKLARI

DIN 2080 ISO

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

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



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.





**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	
HSK50A ER25	100	42	ER25 Ø1-20mm	
HSK50A ER32	100	50	ER32 Ø1-25mm	

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	
HSK63A ER25	100	42	ER25 Ø1-20mm	
HSK63A ER32	100	50	ER32 Ø1-25mm	
HSK63A ER40	100	63	ER40 Ø1-32mm	

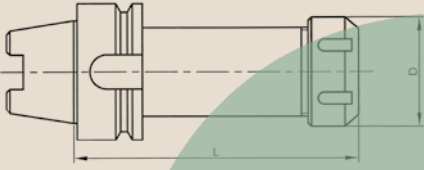
CODE / KOD HSK100A	L	D	collet type and Ø clamping range pens tipi ve Ø sıkma aralığı	EURO
HSK100A ER32	100	50	ER32 Ø1-25mm	
HSK100A ER40	120	63	ER40 Ø1-32mm	

HSK63 COOLANT TUBE / SOĞUTUCU BORUSU

CODE / KOD	EURO
CTHSK63	

HSK63 SPANNER FOR COOLANT TUBE SOĞUTUCU BORUSU ANAHTARI

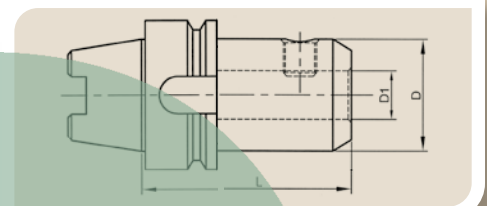
CODE / KOD	EURO
SPHSK63	



WELDON ADAPTORS WELDON TUTUCULAR

HSK63 A DIN69893 / ISO 12164 Balanced G2.5

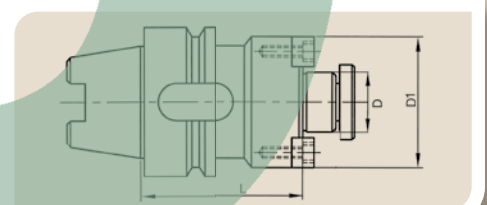
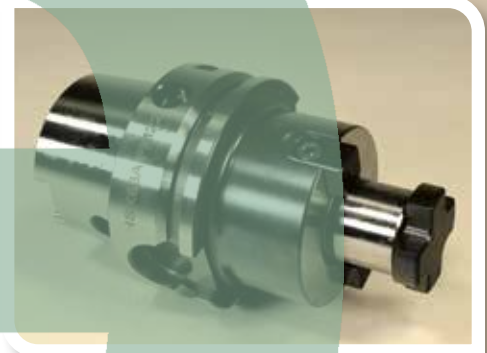
CODE / KOD HSK63A	D1	D	L	EURO
HSK63A W06	6	25	65	
HSK63A W08	8	28	65	
HSK63A W10	10	35	65	
HSK63A W12	12	42	80	
HSK63A W16	16	48	80	
HSK63A W20	20	52	80	
HSK63A W25	25	65	110	
HSK63A W32	32	72	110	



FACE MILL ADAPTORS ALINDAN SIKMALI FREZE TUTUCULAR

HSK63 A DIN69893 / ISO 12164 Balanced G2.5

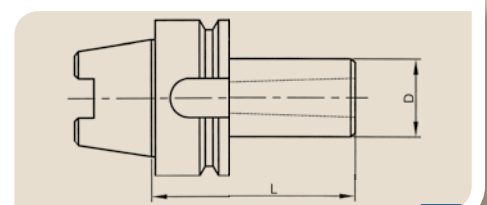
CODE / KOD HSK63A	D1	D	L	EURO
HSK63A FM16	16	38	50	
HSK63A FM22	22	48	50	
HSK63A FM27	27	58	60	
HSK63A FM32	32	78	60	
HSK63A FM40	40	88	60	



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	
HSK63A MT3	3	40	140	
HSK63A MT4	4	48	160	



SHRINK FIT TOOLHOLDERS ISITMALI TUTUCULAR

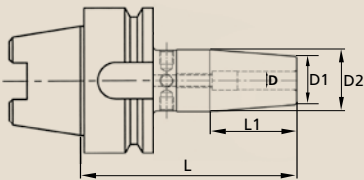
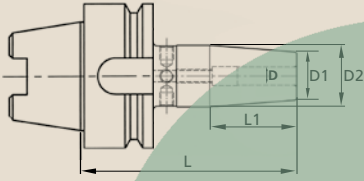
HSK63A DIN69893 / ISO 12164 Balanced G2.5

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

SHRINK FIT TOOLHOLDERS LONG TYPE ISITMALI TUTUCULAR UZUN TİP

HSK63A DIN69893 / ISO 12164 Balanced G2.5

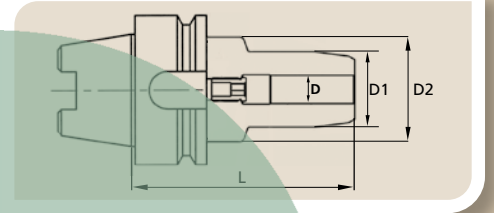
CODE / KOD HSK63A	D	D1	D2	L	L1	EURO
HSK63A SF04 160	4	15	25	160	-	
HSK63A SF06 160	6	21	32	160	36	
HSK63A SF08 160	8	21	32	160	36	
HSK63A SF10 160	10	24	34	160	42	
HSK63A SF12 160	12	24	34	160	47	



HYDRAULIC CHUCKS HİDROLİK TUTUCULAR

HSK63A DIN69893 / ISO 12164 Balanced G2.5

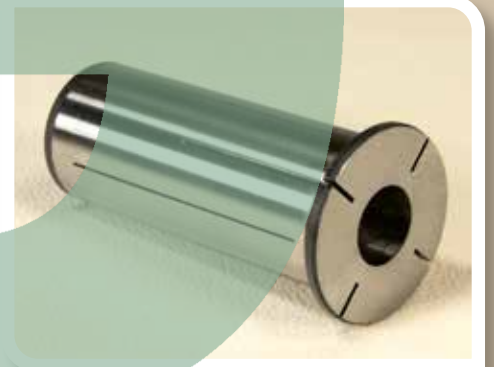
CODE / KOD HSK63A	D	D1	D2	L	EURO
HSK63A HY06 80	6	26	50	80	
HSK63A HY08 80	8	28	50	80	
HSK63A HY10 85	10	30	50	85	
HSK63A HY12 90	12	32	50	90	
HSK63A HY16 95	16	38	50	95	
HSK63A HY20 100	20	42	50	100	
HSK63A HY25 105	25	50	50	105	
HSK63A HY32 125	32	60		125	



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

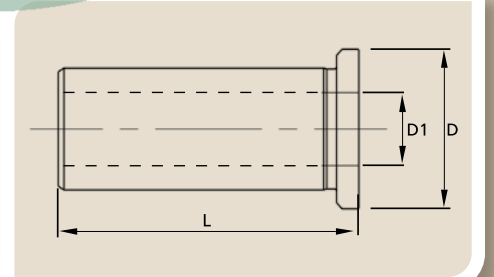


RH20 Ø20

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

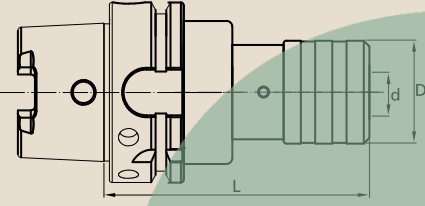
D	D1 Clamping Range / Sıkma Aralığı	L
32	3 - 28	58

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.

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	
HSK63A TC2	M5 - M24	31	53	135	



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.





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	
ER0810095M	10	12	95	ER8 Ø1-5.5mm	
ER0812095M	12	12	95	ER8 Ø1-5.5mm	
ER0812140M	12	12	140	ER8 Ø1-5.5mm	

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	
ER1116115M	16	16	115	ER11 Ø1-8mm	
ER1116165M	16	16	165	ER11 Ø1-8mm	
ER1116115H	16	19	115	ER11 Ø1-8mm	
ER11127178M	12.7 (1/2" inch)	16	178 (7" inch)	ER11 Ø1-8mm	

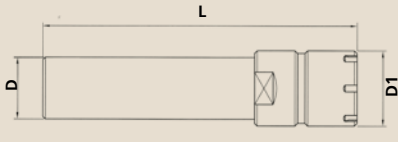
ER16

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	
ER1620130M	20	22	130	ER16 Ø1-12mm	
ER1620200M	20	22	200	ER16 Ø1-12mm	
ER1620130H	20	28	130	ER16 Ø1-12mm	
ER1620130S	20	32	130	ER16 Ø1-12mm	
ER1619178M	19.05 (3/4" inch)	22	178 (7" inch)	ER16 Ø1-12mm	

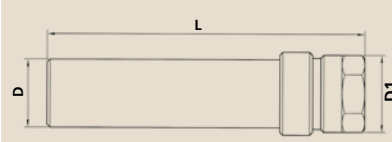
ER20

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	
ER2020140H	20	34	140	ER20 Ø2-16mm	
ER2020140S	20	35	140	ER20 Ø2-16mm	
ER2025110H	25	34	110	ER20 Ø2-16mm	
ER2025110S	25	35	110	ER20 Ø2-16mm	
ER2025200M	25	28	200	ER20 Ø2-16mm	
ER20254178H	25.4 (1" inch)	28	178 (7" inch)	ER20 Ø2-16mm	

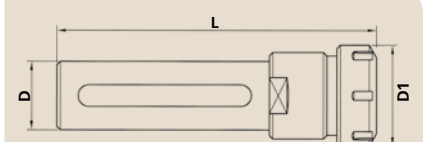
Straight shank collet holders have through hole for internal coolant and stop screw inside.
SİLİNDİRİK SAPLI pens tutucuları içten soğutma için boydan boya deliktir ayrıca dayama vidası vardır.



M: Mini



H: Hexagon



S: Standard



STRAIGHT SHANK ER COLLET HOLDERS SİLİNDİRİK SAPLI ER PENS TUTUCULARI

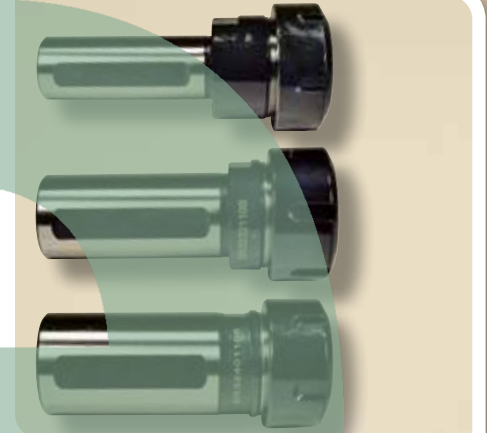
ER25

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	
ER2525145M	25	35	145	ER25 Ø1-20mm	
ER2525200M	25	35	200	ER25 Ø1-20mm	
ER2532110S	32	42	110	ER25 Ø1-20mm	
ER25254200M	25.4 (1" inch)	35	200	ER25 Ø1-20mm	
ER25254190M	25.4 (1" inch)	35	190 (7-1/2" inch)	ER25 Ø1-20mm	



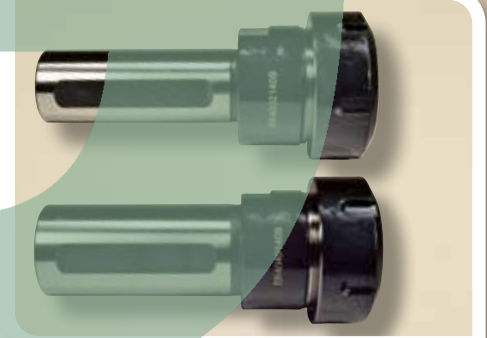
ER32

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	
ER3232110S	32	50	110	ER32 Ø1-25mm	
ER3240110S	40	50	110	ER32 Ø1-25mm	
ER3219152S	19.05 (3/4" inch)	50	152 (6" inch)	ER32 Ø1-25mm	
ER32254190S	25.4 (1" inch)	50	190 (7-1/2" inch)	ER32 Ø1-25mm	
ER32318114S	31.75 (1-1/4" inch)	50	114 (4-1/2" inch)	ER32 Ø1-25mm	
ER32318152S	31.75 (1-1/4" inch)	50	152 (6" inch)	ER32 Ø1-25mm	



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	
ER4040140S	40	63	140	ER40 Ø1-32mm	
ER40254114S	25.4 (1" inch)	63	114 (4-1/2" inch)	ER40 Ø1-32mm	
ER40254178S	25.4 (1" inch)	63	178 (7" inch)	ER40 Ø1-32mm	
ER40318114S	31.75 (1-1/4" inch)	63	114 (4-1/2" inch)	ER40 Ø1-32mm	
ER40318165S	31.75 (1-1/4" inch)	63	165 (6-1/2" inch)	ER40 Ø1-32mm	

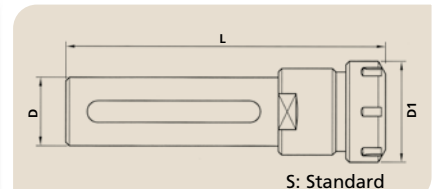
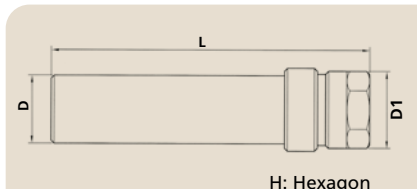
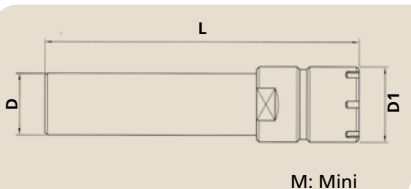


ER50

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	



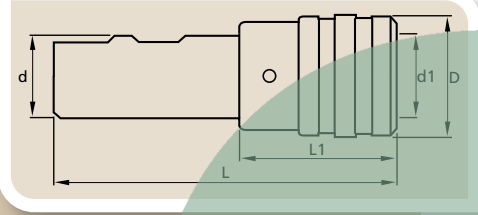
Straight shank collet holders have through hole for internal coolant and stop screw inside.
Silindirik saplı pens tutucuları içten soğutma için boya deliktir ayrıca dayama vidası vardır.



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	
SS25 TC1	M3 - M14	25	19	36	105	49	
SS25 TC2	M5 - M24	25	31	53	125	69	
SS32 TC1	M3 - M14	32	19	36	110	49	
SS32 TC2	M5 - M24	32	31	53	129	69	
SS40 TC2	M5 - M24	40	31	53	135	69	



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.





DIN 228 MORSE TAPER TOOLHOLDERS
DIN 228 MORS KONİK TAKIM TUTUCULARI



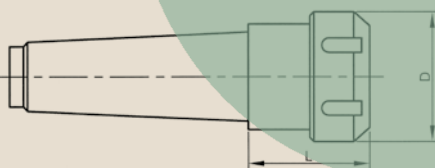
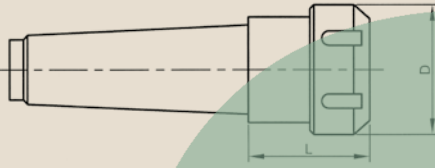
COLLET CHUCKS PENS BAŞLIKLARI

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	
MT2 ER25	55	42	ER25 Ø1-20mm	
MT2 ER32	70	50	ER32 Ø1-25mm	
MT3 ER25	55	42	ER25 Ø1-20mm	
MT3 ER32	70	50	ER32 Ø1-25mm	
MT3 ER40	75	63	ER40 Ø1-32mm	
MT4 ER32	70	50	ER32 Ø1-25mm	
MT4 ER40	75	63	ER40 Ø1-32mm	

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	
MT3 OZ25	70	60	OZ25 Ø2-32mm	
MT4 OZ25	70	60	OZ25 Ø2-32mm	

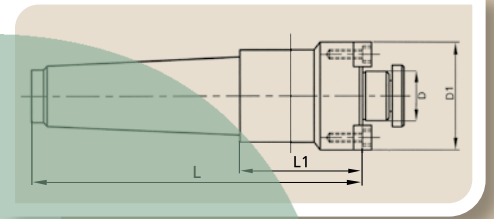


FACE MILL ADAPTORS

ALINDAN SIKMALI FREZE TUTUCULAR

DIN228 A MORSE TAPER / MORS KONİK

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

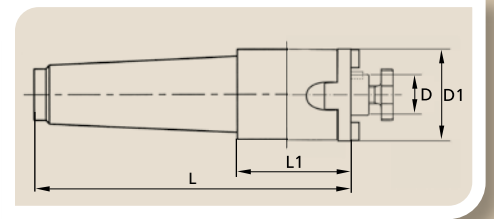
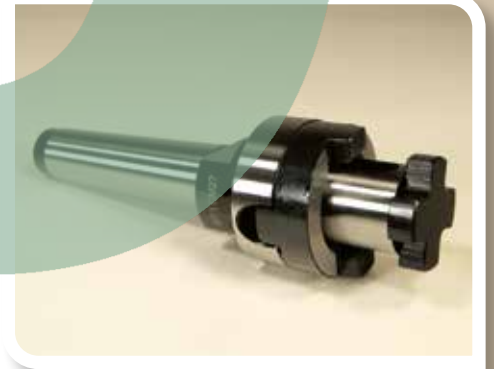


COMBI SHELL MILL ADAPTORS (with drive ring and key)

KOMBİNE FREZE TUTUCULAR (İstavroz pul ve kamalı)

DIN228 A MORSE TAPER / MORS KONİK

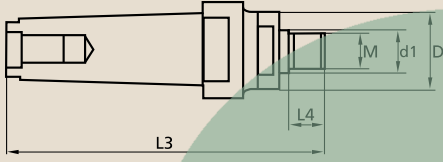
CODE / KOD MT	D	D1	L	L1	EURO
MT2 CM16	16	32	124	44	
MT2 CM22	22	40	126	50	
MT2 CM27	27	48	128	54	
MT2 CM32	32	58	128	57	
MT2 CM40	40	70	128	60	
MT3 CM16	16	32	146	44	
MT3 CM22	22	40	148	50	
MT3 CM27	27	48	150	54	
MT3 CM32	32	58	153	62	
MT3 CM40	40	68	153	62	
MT4 CM16	16	32	172	44	
MT4 CM22	22	40	175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



THREADED BORE TOOL HOLDERS VİDALI ARKA DELİKLİ TAKIM TUTUCULARI

DIN228 A MORSE TAPER / MORS KONİK

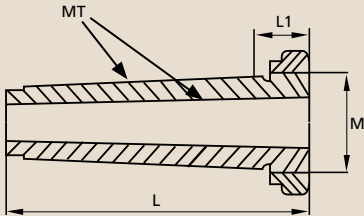
CODE / KOD MT	L3	L4	D	d1	EURO
MT3 M12	151	17	22	14	
MT3 M16	154	19	32	18	
MT3 M20	157	22	40	22	
MT3 M24	159	24	48	26	
MT4 M12	179	17	22	14	
MT4 M16	182	19	32	18	
MT4 M20	185	22	40	22	



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	
MT3 MT1 XN	101	20	M27X1.5	
MT3 MT2 XN	101	20	M27X1.5	
MT4 MT1 XN	127	24	M34X2.0	
MT4 MT2 XN	127	24	M34X2.0	
MT4 MT3 XN	127	24	M34X2.0	
MT5 MT3 XN	157	27	M48X2.0	
MT5 MT4 XN	157	27	M48X2.0	

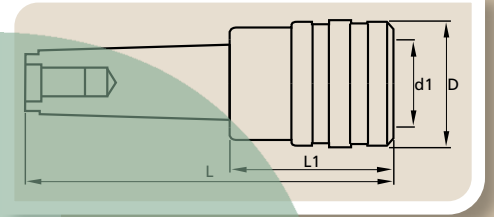


TAPPING CHUCKS

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	
MT3 TC1	M3 - M14	19	36	130	49	
MT3 TC2	M5 - M24	31	53	150	69	
MT4 TC1	M3 - M14	19	36	152	49	
MT4 TC2	M5 - M24	31	53	172	69	



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

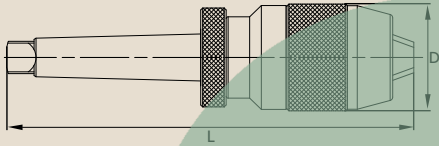
Please see details at page nr. 131
Detaylar için sayfa 131 e bakınız.



DRILL CHUCK HOLDERS MANDRENLI TUTUCU

DIN228 B MORSE TAPER / MORS KONİK

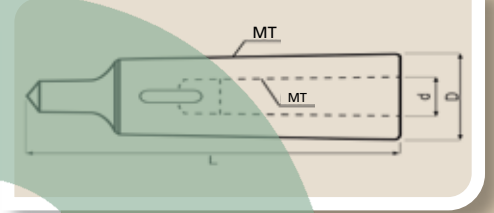
CODE / KOD DIN228B MT	Ø	D	L	EURO
MT2 DC13	1-13	51	185	
MT2 DC16	3-16	55	190	
MT3 DC13	1-13	51	205	
MT3 DC16	3-16	55	210	
MT4 DC13	1-13	51	210	
MT4 DC16	3-16	55	235	



MORSE TAPER REDUCTION SLEEVE DIN2185

MORS KONİK REDÜKSİYON KOVANLAR

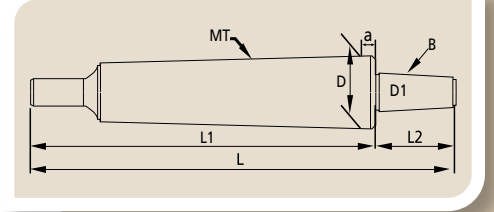
CODE / KOD DIN 2185	Outside Taper Dış Konik	Inside Taper İç Konik	L	EURO
MT2 MT1	MT2	MT1	92	
MT3 MT1	MT3	MT1	99	
MT3 MT2	MT3	MT2	112	
MT4 MT1	MT4	MT1	124	
MT4 MT2	MT4	MT2	124	
MT4 MT3	MT4	MT3	140	
MT5 MT1	MT5	MT1	156	
MT5 MT2	MT5	MT2	156	
MT5 MT3	MT5	MT3	156	
MT5 MT4	MT5	MT4	171	
MT6 MT3	MT6	MT3	218	
MT6 MT4	MT6	MT4	218	
MT6 MT5	MT6	MT5	218	



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	
MT1 B12	MT1	B12	90	65	25	12,065	12,065	
MT2 B10	MT2	B10	101	80	21	17,780	10,094	
MT2 B12	MT2	B12	105	80	25	17,780	12,065	
MT2 B16	MT2	B16	112	80	32	17,780	15,733	
MT2 B18	MT2	B18	120	80	40	17,780	17,780	
MT3 B12	MT3	B12	124	99	25	23,825	12,065	
MT3 B16	MT3	B16	131	99	32	23,825	15,733	
MT3 B18	MT3	B18	139	99	40	23,825	17,780	
MT3 B22	MT3	B22	147	99	48	23,825	21,793	
MT4 B16	MT4	B16	156	124	32	31,267	15,733	
MT4 B18	MT4	B18	164	124	40	31,267	17,780	
MT4 B22	MT4	B22	172	124	48	31,267	21,793	
MT5 B16	MT5	B16	188	156	32	44,399	17,733	
MT5 B18	MT5	B18	196	156	40	44,399	17,780	
MT5 B22	MT5	B22	204	156	48	44,399	21,793	
MT5 B24	MT5	B24	214	156	58	44,399	23,825	







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

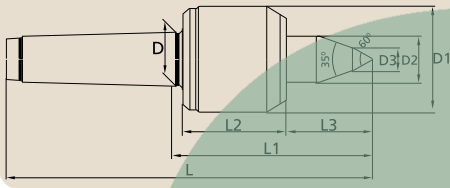
*DÖNER PUNTALAR
MATKAP MANDRENLERİ
SABİT PUNTALAR
SİLİNDİRİK REDÜKSİYON KOVANLAR*



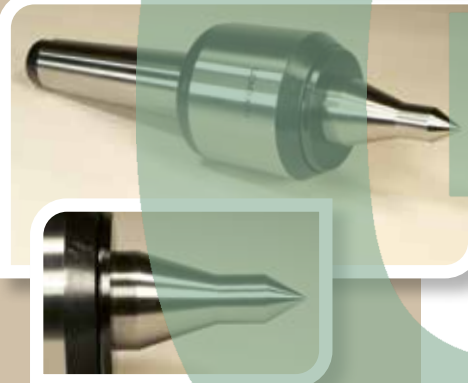
PRECISION CNC LIVE CENTRES HASSAS CNC DÖNER PUNTALAR



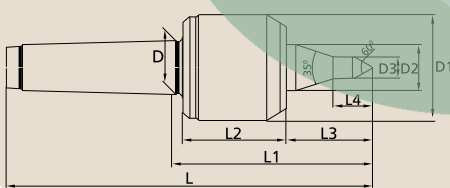
CODE / KOD	Taper Konik	D	D1	D2	D3	L	L1	L2	L3	Max Rpm Devir	EURO
LCMT3	MT 3	23.825	53	22	10	184	103	42	54	8000	
LCMT4	MT 4	31.267	63	28	12	225.5	124	53	64	6000	
LCMT5	MT 5	44.399	83	38	16	284	155	63	79	4000	



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	
LCMT4XP	MT 4	31,267	63	28	14	225.5	124	53	64	25	6000	
LCMT5XP	MT 5	44,399	83	38	16	284	155	69	79.5	25	4000	



PRECISION SOLID CENTRE HASSAS SABİT PUNTA



DIN 806

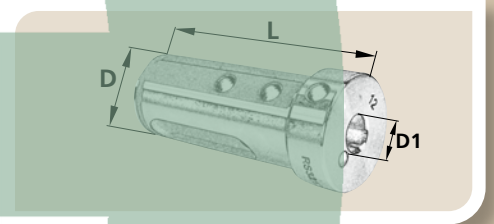
CODE / KOD DIN 806	Taper Konik	D	L	EURO
SC806MT2	MT 2	18	100	
SC806MT3	MT 3	24.1	125	
SC806MT4	MT 4	31.6	160	
SC806MT5	MT 5	44.7	200	



REDUCTION SLEEVES FOR CNC TURNING MACHINES

CNC TORNALAR İÇİN REDÜKSİYON KOVANLAR

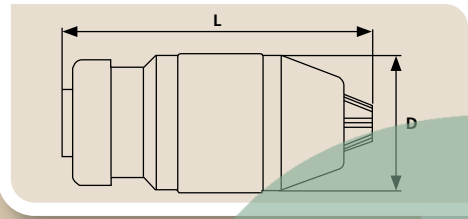
CODE / KOD	D	D1	L	FORM	EURO
RS2006	20	6	62	FORM 1	
RS2008	20	8	62	FORM 1	
RS2010	20	10	62	FORM 1	
RS2012	20	12	62	FORM 2	
RS2014	20	14	62	FORM 2	
RS2016	20	16	62	FORM 2	
RS2506	25	6	63	FORM 1	
RS2508	25	8	63	FORM 1	
RS2510	25	10	63	FORM 1	
RS2512	25	12	63	FORM 2	
RS2514	25	14	63	FORM 2	
RS2516	25	16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



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	
DC13 B16	96	49	1-13MM	B16	
DC16 B18	105	54	3-16MM	B18	
DC20 B22	120	62	5-20MM	B22	



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	
B18 ER32	B 18	ER32	3-20MM	

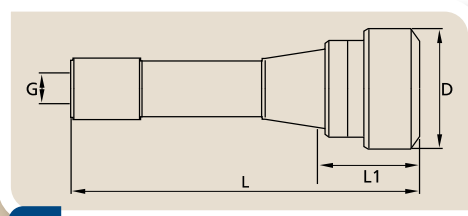
Performs better than the drill chuck in applications where high torque and higher precision required.
Yüksek tork ve yüksek hassasiyet gereken uygulamalarda matkap mandreninden daha iyi netice verir.
Suplied with extraction bolt / Çıkarma vidası ile verilir.



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	
R8 ER40	170	70	63	7/16x20 UNF	





DIN 69880 VDI TOOLHOLDERS

DIN 69880 VDI TAKIM TUTUCULAR



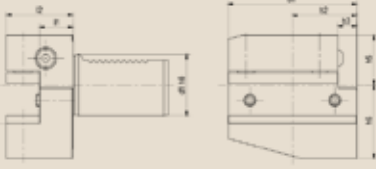
DIN 69880 VDI TOOL HOLDERS

DIN 69880 VDI TUTUCULAR



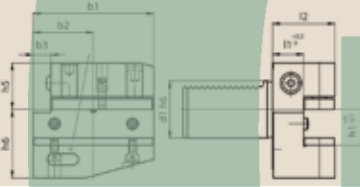
Form B1 Radial Toolholder Right / Radyal Kater Tutucu Sağ

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	
B1-30x20x40	VDI 30	70	35	10	20/16	28	38	22	40	
B1-40x25x44	VDI 40	85	42.5	12.5	25/20	32.5	48	22	44	



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	
B2-30x20x40	VDI 30	70	35	10	20/16	28	38	22	40	
B2-40x25x44	VDI 40	85	42.5	12.5	25/20	32.5	48	22	44	



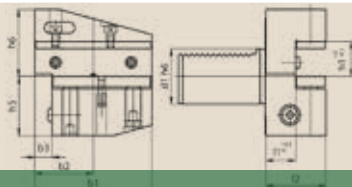
Form B3 Radial Inverted Right / Radyal Kater Tutucu Ters Sağ

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	
B3-30x20x40	VDI 30	70	35	10	20/16	35	38	22	40	
B3-40x25x44	VDI 40	85	42.5	12.5	25/20	42.5	48	22	44	



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	
B4-30x20x40	VDI 30	70	35	10	20/16	35	38	22	40	
B4-40x25x44	VDI 40	85	42.5	12.5	25/20	42.5	48	22	44	

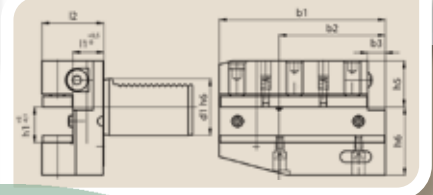


DIN 69880 VDI TOOL HOLDERS

DIN 69880 VDI TUTUCULAR

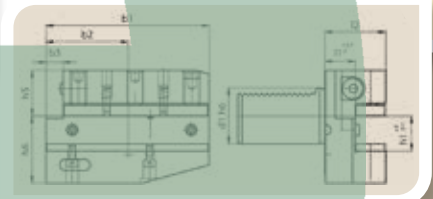
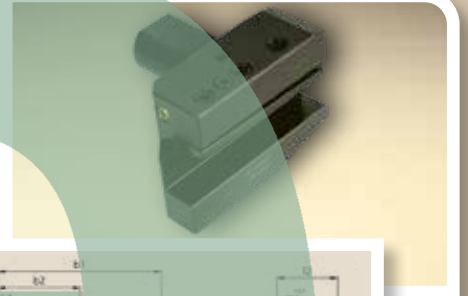
Form B5 Radial Toolholder Long Right / Radyal Kater Tutucu Uzun Sağ

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	
B5-30x20x40	VDI 30	100	65	10	20/16	28	38	22	40	
B5-40x25x44	VDI 40	118	75.5	12.5	25/20	33	48	22	44	



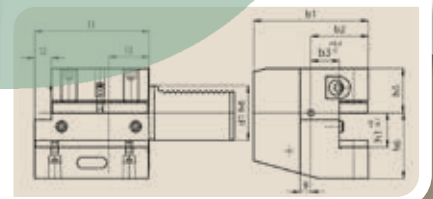
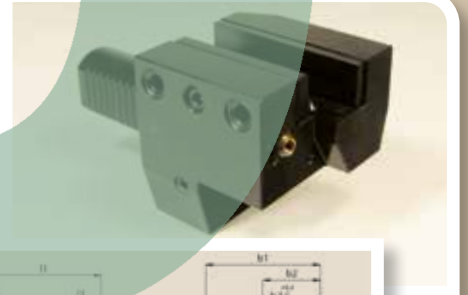
Form B6 Radial Toolholder Long Left / Radyal Kater Tutucu Uzun Sol

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	
B6-30x20x40	VDI 30	100	65	10	20/16	28	38	22	40	
B6-40x25x44	VDI 40	118	75.5	12.5	25/20	33	48	22	44	



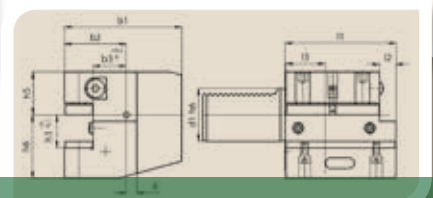
Form C1 Axial Toolholder Right / Eksenel Kater Tutucu Sağ

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	
C1-30x20x70	VDI 30	70	35	17	20/16	28	38	70	10	30	
C1-40x25x85	VDI 40	85	42.5	21	25/20	32.5	48	85	12.5	30	



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	
C2-30x20x70	VDI 30	70	35	17	20/16	28	38	70	10	30	
C2-40x25x85	VDI 40	85	42.5	21	25/20	32.5	48	85	12.5	30	

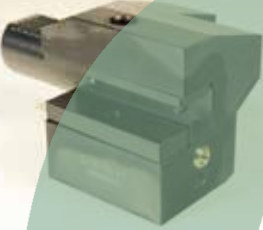
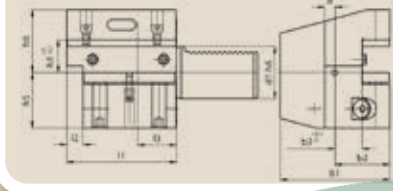


DIN 69880 VDI TOOL HOLDERS DIN 69880 VDI TUTUCULAR



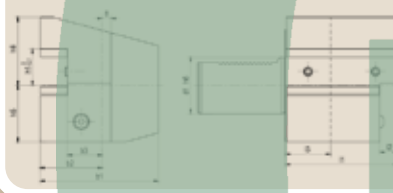
Form C3 Axial Toolholder Inverted Right / Eksenel Kater Tutucu Ters Sağ

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	
C3-30x20x70	VDI 30	70	35	17	20/16	35	38	70	10	30	
C3-40x25x85	VDI 40	85	42.5	21	25/20	42.5	48	85	12.5	30	



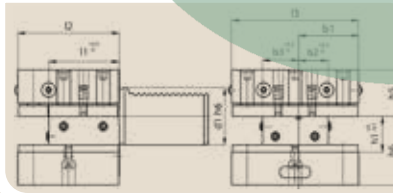
Form C4 Axial Toolholder Inverted Left / Eksenel Kater Tutucu Ters Sol

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	
C4-30x20x70	VDI 30	76	41	23	20/16	35	38	70	10	30	
C4-40x25x85	VDI 40	90	47.5	25.5	25/20	42.5	48	85	12.5	30	



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	
D1-40x25x72	VDI 40	42.5	21	25.5	25/20	32.5	48	50	72	90	

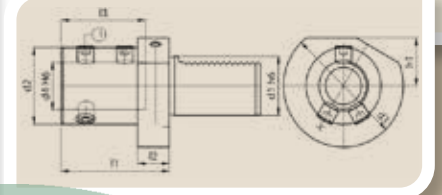


DIN 69880 VDI TOOL HOLDERS

DIN 69880 VDI TUTUCULAR

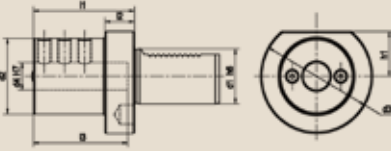
Form E1 U-Drill Indexable Drill Holder / U-Drill Takma Uçlu Matkap Tutucu

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



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	
E2-20x10	VDI 20	40	50	10	23	50	18	42	
E2-20x12	VDI 20	40	50	12	23	50	18	42	
E2-20x16	VDI 20	42	50	16	23	50	18	42	
E2-20x20	VDI 20	49	50	20	23	50	18	42	
E2-30x8	VDI 30	55	68	8	28	60	22	43	
E2-30x10	VDI 30	55	68	10	28	60	22	43	
E2-30x12	VDI 30	55	68	12	28	60	22	43	
E2-30x16	VDI 30	55	68	16	28	60	22	55	
E2-30x20	VDI 30	55	68	20	28	60	22	54	
E2-30x25	VDI 30	55	68	25	28	60	22	54	
E2-30x32	VDI 30	67	68	32	28	75	22	61	
E2-40x10	VDI 40	55	83	10	32.5	75	22	43	
E2-40x12	VDI 40	55	83	12	32.5	75	22	58	
E2-40x16	VDI 40	55	83	16	32.5	75	22	61	
E2-40x20	VDI 40	55	83	20	32.5	75	22	61	
E2-40x25	VDI 40	55	83	25	32.5	75	22	61	
E2-40x32	VDI 40	82	83	32	32.5	75	22	61	
E2-40x40	VDI 40	82	83	40	32.5	90	22	76	
E2-50x16	VDI 50	68	98	16	35	90	30	76	
E2-50x20	VDI 50	68	98	20	35	90	30	76	
E2-50x25	VDI 50	68	98	25	35	90	30	76	
E2-50x32	VDI 50	69	98	32	35	90	30	76	
E2-50x40	VDI 50	98	98	40	35	90	-	76	

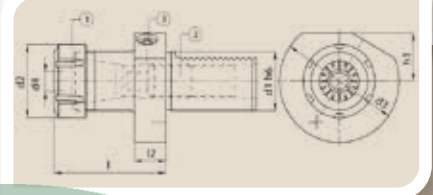


DIN 69880 VDI TOOL HOLDERS

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	
E4-20xER25	VDI 20	20	42	50	2-16	23	50	18	
E4-30xER16	VDI 30	30	32	68	1-10	28	48	22	
E4-30xER25	VDI 30	30	42	68	2-16	28	57	22	
E4-30xER32	VDI 30	30	50	68	3-20	28	75	22	
E4-30xER40	VDI 30	30	63	68	4-26	28	80	22	
E4-40xER25	VDI 40	40	42	83	2-16	32.5	57	22	
E4-40xER32	VDI 40	40	50	83	3-20	32.5	75	22	
E4-40xER40	VDI 40	40	63	83	4-26	32.5	75	22	
E4-50xER40	VDI 50	50	63	98	4-26	35	75	30	



PRECISION STANDARDS HASSASİYET STANDARTLARI

3 DIFFERENT PRECISION LEVELS / 3 AYRI HASSASİYET SINIFI

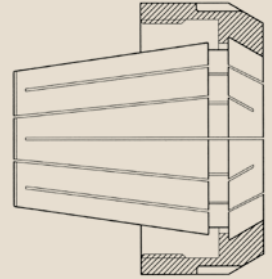
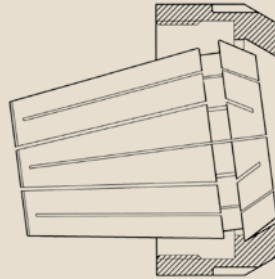
CLASS 2	Precise and economic, according to DIN6499 Class 2 Max 15-20 micron run out. <i>Hassas ve ekonomik, DIN 6499 Class 2 standardında Max.15-20 mikron salgı.</i>
CLASS 1	Upper precision level according to DIN 6499 Class 1 Max. 10 micron run out. <i>Daha Hassas, DIN 6499 Class 1 standardında Max.10 mikron salgı.</i>
TOPAC	TOP level AC curacy 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 PENSLE



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 sıkıldığında 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 PENSİLER

DIN 6499 / ISO 15488-B

ER 8 CLASS 2

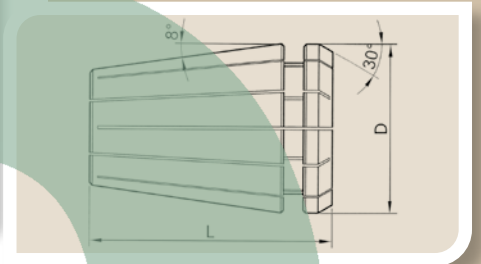
CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER080102	1.0-0.5	
ER080152	1.5-1.0	
ER080202	2.0-1.5	
ER080252	2.5-2.0	
ER080302	3.0-2.5	
ER080352	3.5-3.0	
ER080402	4.0-3.5	
ER080452	4.5-4.0	
ER080502	5.0-4.5	
ER080552*	5.5-5.4	

ER 8 CLASS 1

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

ER 8 TOPAC (5 micron)

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



* 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	

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	

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	



ER 11 COLLETS ER 11 PENSİLER

DIN 6499 / ISO 15488-B

ER 11 CLASS 2

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

ER 11 CLASS 1

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

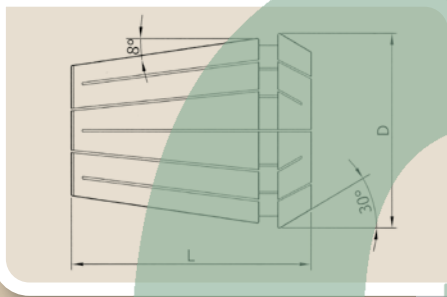
ER 11 TOPAC (5 micron)

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

* 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	

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	

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	



ER 16 COLLETS

ER 16 PENSİLER

DIN 6499 / ISO 15488-B

ER 16 CLASS 2

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

ER 16 CLASS 1

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

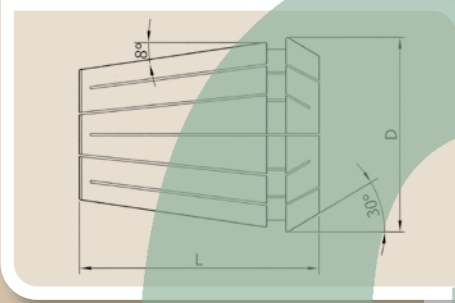
ER 16 TOPAC (5 micron)

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

* 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	

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	

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	



ER 20 COLLETS ER 20 PENSİLER

DIN 6499 / ISO 15488-B

ER 20 CLASS 2

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

ER 20 CLASS 1

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

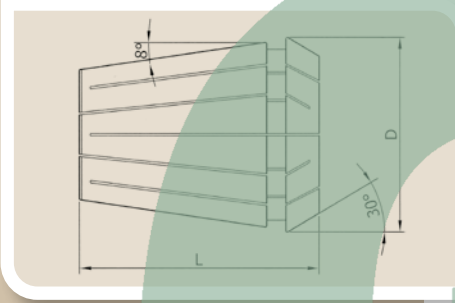
ER 20 TOPAC (5 micron)

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

* 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	

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	

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	



ER 25 COLLETS

ER 25 PENSİLER

DIN 6499 / ISO 15488-B

ER 25 CLASS 2

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

ER 25 CLASS 1

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

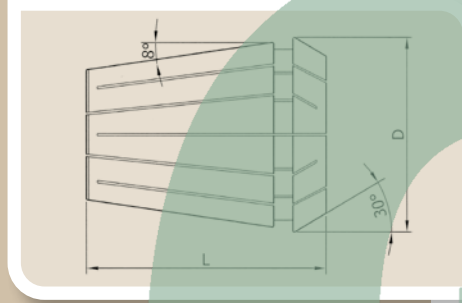
ER 25 TOPAC (5 micron)

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

* 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	

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	

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	



ER 32 COLLETS ER 32 PENSİLER

DIN 6499 / ISO 15488-B

ER 32 CLASS 2

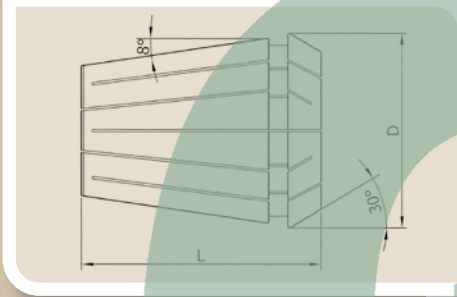
CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER320102	1.0-0.5	
ER320152	1.5-1.0	
ER320202	2.0-1.5	
ER320252	2.5-2.0	
ER320302	3.0-2.5	
ER320352	3.5-2.5	
ER320402	4.0-3.0	
ER320452	4.5-3.5	
ER320502	5.0-4.0	
ER320552	5.5-4.5	
ER320602	6.0-5.0	
ER320652	6.5-5.5	
ER320702	7.0-6.0	
ER320752	7.5-6.5	
ER320802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

ER 32 CLASS 1

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

ER 32 TOPAC (5 micron)

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



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	

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	

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	



* 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 PENSİLER

DIN 6499 / ISO 15488-B

ER 40 CLASS 2

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

ER 40 CLASS 1

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

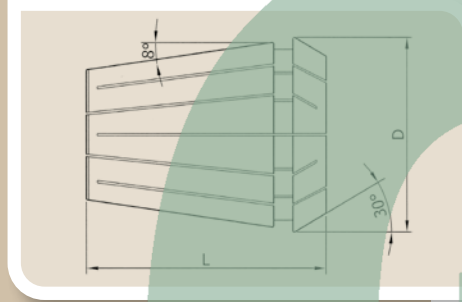
ER 40 TOPAC (5 micron)

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

* 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	

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	

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	



ER 50 COLLETS ER 50 PENSİLER

DIN 6499 / ISO 15488-B

ER 50 CLASS 2

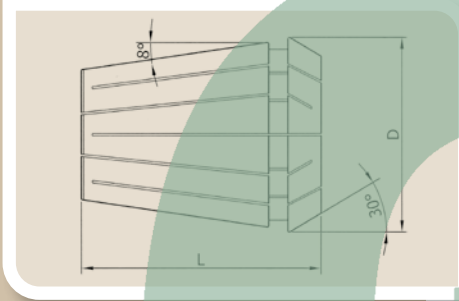
CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER500602	6.0-5.0	
ER500702	7.0-6.0	
ER500802	8.0-7.0	
ER500902	9.0-8.0	
ER501002	10.0-9.0	
ER501102	11.0-10.0	
ER501202	12.0-10.0	
ER501302	13.0-11.0	
ER501402	14.0-12.0	
ER501502	15.0-13.0	
ER501602	16.0-14.0	
ER501702	17.0-15.0	
ER501802	18.0-16.0	
ER501902	19.0-17.0	
ER502002	20.0-18.0	
ER502102	21.0-19.0	
ER502202	22.0-20.0	
ER502302	23.0-21.0	
ER502402	24.0-22.0	
ER502502	25.0-23.0	
ER502602	26.0-24.0	
ER502702	27.0-25.0	
ER502802	28.0-26.0	
ER502902	29.0-27.0	
ER503002	30.0-28.0	
ER503102	31.0-29.0	
ER503202	32.0-30.0	
ER503302	33.0-31.0	
ER503402	34.0-32.0	
ER503502*	35.0-34.8	
ER503602*	36.0-35.8	
ER503702*	37.0-36.8	
ER503802*	38.0-37.8	
ER503902*	32.0-31.8	
ER504002*	40.0-39.8	

ER 50 CLASS 1

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER500601	6.0-5.0	
ER500701	7.0-6.0	
ER500801	8.0-7.0	
ER500901	9.0-8.0	
ER501001	10.0-9.0	
ER501101	11.0-10.0	
ER501201	12.0-10.0	
ER501301	13.0-11.0	
ER501401	14.0-12.0	
ER501501	15.0-13.0	
ER501601	16.0-14.0	
ER501701	17.0-15.0	
ER501801	18.0-16.0	
ER501901	19.0-17.0	
ER502001	20.0-18.0	
ER502101	21.0-19.0	
ER502201	22.0-20.0	
ER502301	23.0-21.0	
ER502401	24.0-22.0	
ER502501	25.0-23.0	
ER502601	26.0-24.0	
ER502701	27.0-25.0	
ER502801	28.0-26.0	
ER502901	29.0-27.0	
ER503001	30.0-28.0	
ER503101	31.0-29.0	
ER503201	32.0-30.0	
ER503301	33.0-31.0	
ER503401	34.0-32.0	
ER503501*	35.0-34.8	
ER503601*	36.0-35.8	
ER503701*	37.0-36.8	
ER503801*	38.0-37.8	
ER503901*	32.0-31.8	
ER504001*	40.0-39.8	

ER 50 TOPAC (5 micron)

CODE KOD	clamping dia sıkma çapı Ømm	EURO
ER50060T	6.0-5.0	
ER50070T	7.0-6.0	
ER50080T	8.0-7.0	
ER50090T	9.0-8.0	
ER50100T	10.0-9.0	
ER50110T	11.0-10.0	
ER50120T	12.0-10.0	
ER50130T	13.0-11.0	
ER50140T	14.0-12.0	
ER50150T	15.0-13.0	
ER50160T	16.0-14.0	
ER50170T	17.0-15.0	
ER50180T	18.0-16.0	
ER50190T	19.0-17.0	
ER50200T	20.0-18.0	
ER50210T	21.0-19.0	
ER50220T	22.0-20.0	
ER50230T	23.0-21.0	
ER50240T	24.0-22.0	
ER50250T	25.0-23.0	
ER50260T	26.0-24.0	
ER50270T	27.0-25.0	
ER50280T	28.0-26.0	
ER50290T	29.0-27.0	
ER50300T	30.0-28.0	
ER50310T	31.0-29.0	
ER50320T	32.0-30.0	
ER50330T	33.0-31.0	
ER50340T	34.0-32.0	
ER50350T*	35.0-34.8	
ER50360T*	36.0-35.8	
ER50370T*	37.0-36.8	
ER50380T*	38.0-37.8	
ER50390T*	32.0-31.8	
ER50400T*	40.0-39.8	



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



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	

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	

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	

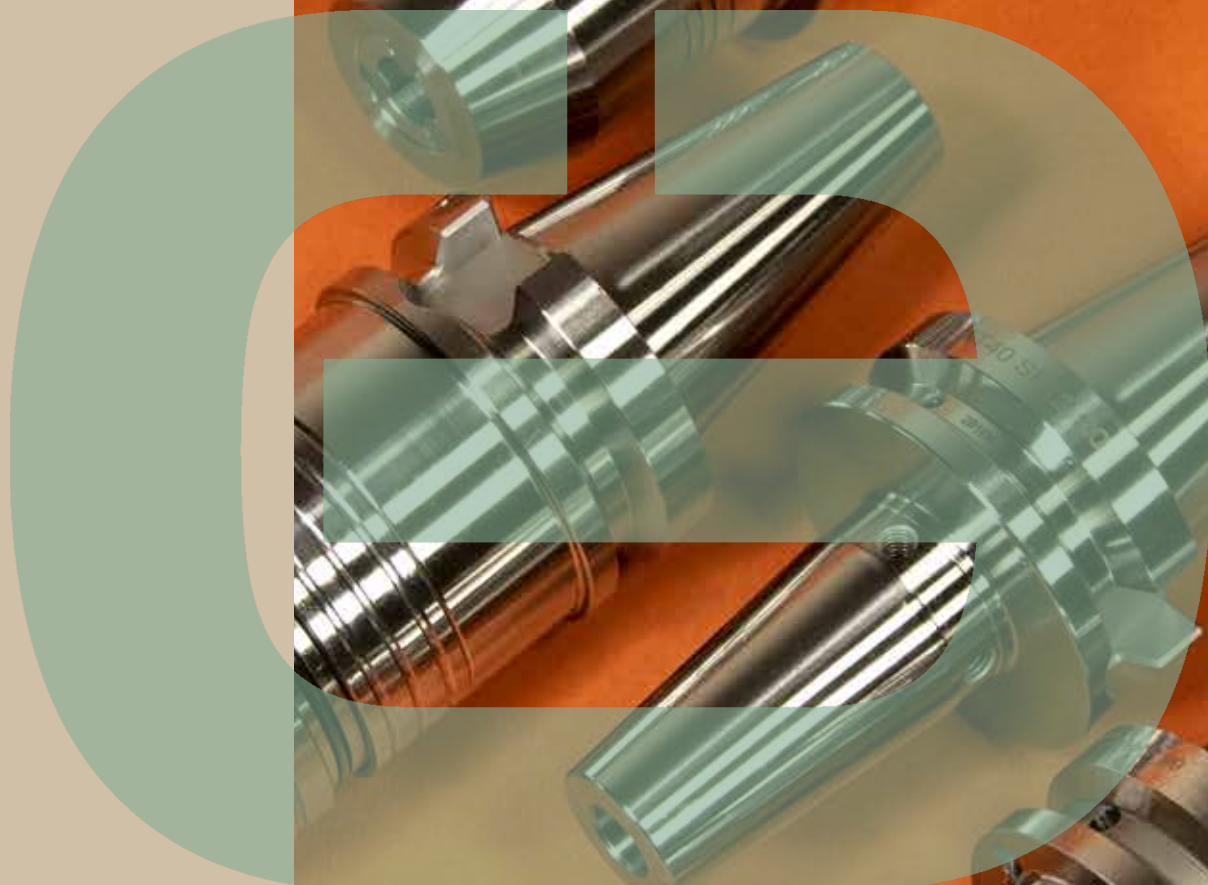
Normally ER50 sets do not contain 25 mm collet. It can be included in the set instead of 26mm if requested.
Normalde ER50 pens takımlarında 25mm pens yoktur. Bu pens istendiğinde 26mm nin yerine takıma konulabilir.



* Ø>35 (over Ø35mm dia) collets are shorter than standard. They can only clamp down Ø -0,2mm
* Ø>35 (Ø35mm üstü çap) pensler 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



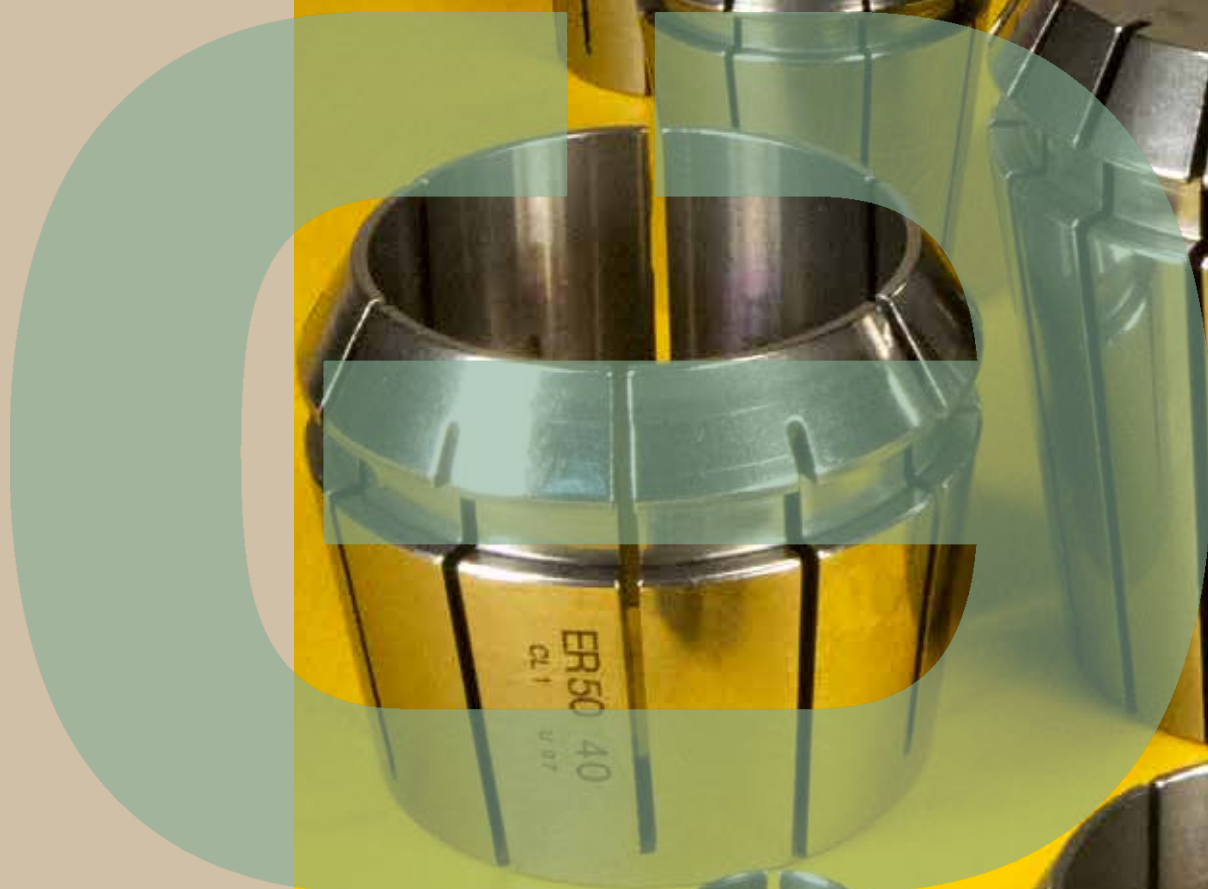
CONTENT - İÇERİĞİ	CODE/KOD	EURO
10 pcs ER16 collets Class 2 (Ø1-2-3-4-5-6-7-8-9-10) 1 pce ER16 collet chuck 1 pce ER16 spanner in wooden box <i>10 Ad. ER16 pens Class 2</i> <i>(Ø1-2-3-4-5-6-7-8-9-10)</i> <i>1 Ad. ER16 Pens Başlığı</i> <i>1 Ad. ER16 anahtar ahşap kutuda</i>	BT30ER16S10	
	BT40ER16S10	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



ER COLLET SET WITH CHUCKS BAŞLIKLİ ER PENS TAKIMLARI

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







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

**SIZDIRMAZ ER PENSLELER
ER KILAVUZ PENSLELERİ
İNÇ ÖLÇÜ ER PENSLELER
DIN 6388 / ISO10897 (OZ) PENSLELER**

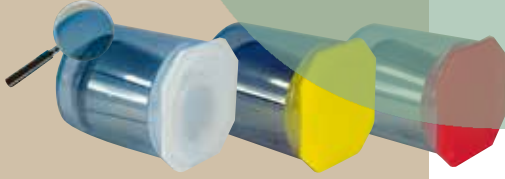
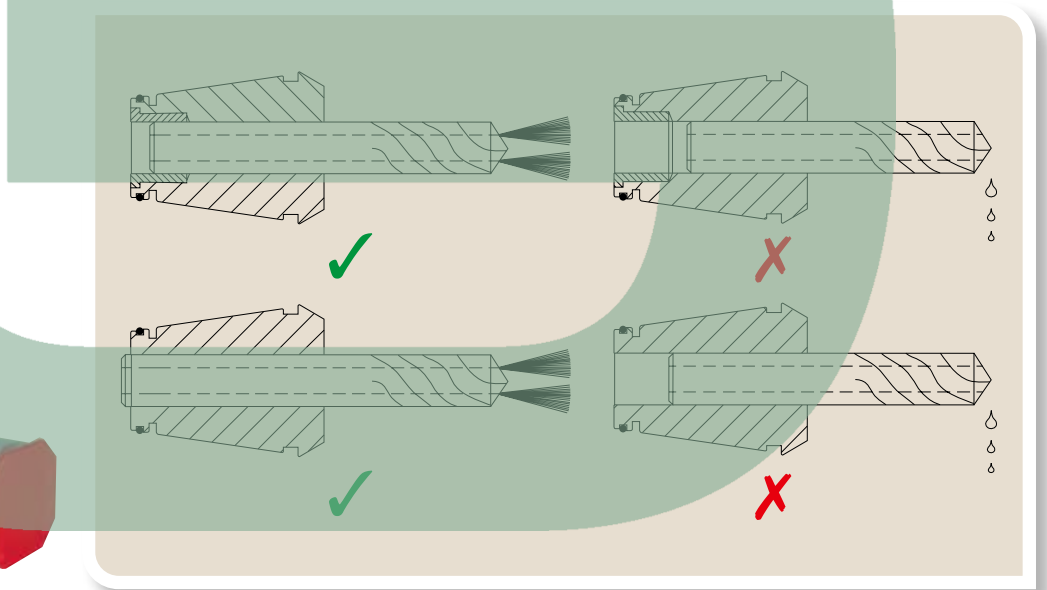


COOLANT SEALED ER COLLETS (For internal coolant tools) SIZDIRMAZ ER PENSLER (içten soğutmalı takımlar için)



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 PENSLEK (içten soğutmalı takımlar için) Pat. Nr. 2013/00719

ERC11 COOLANT SEALED COLLETS
ERC11 SIZDIRMAZ PENSLEK

CLASS 2

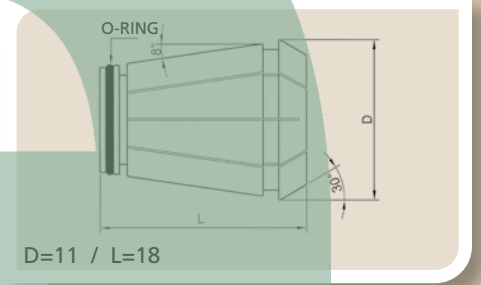
CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC110302	3	
ERC110402	4	
ERC110502	5	
ERC110602	6	

CLASS 1

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

TOPAC (5 micron)

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



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	

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	

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	



ERC16 COOLANT SEALED COLLETS
ERC16 SIZDIRMAZ PENSİLER

CLASS 2

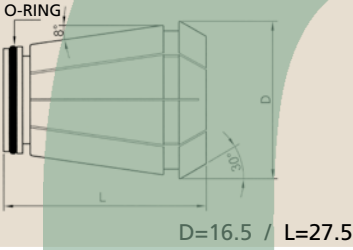
CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC160302	3	
ERC160402	4	
ERC160502	5	
ERC160602	6	
ERC160702	7	
ERC160802	8	
ERC160902	9	
ERC161002	10	

CLASS 1

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

TOPAC (5 micron)

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



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	

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	

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	



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

ERC20 COOLANT SEALED COLLETS
ERC20 SIZDIRMAZ PENSİLER

CLASS 2

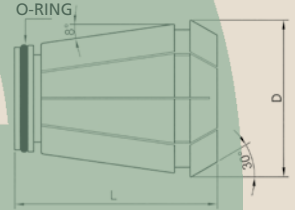
CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC200302	3	
ERC200402	4	
ERC200502	5	
ERC200602	6	
ERC200702	7	
ERC200802	8	
ERC200902	9	
ERC201002	10	
ERC201102	11	
ERC201202	12	
ERC201302	13	

CLASS 1

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

TOPAC (5 micron)

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



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	

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	

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	



ERC25 COOLANT SEALED COLLETS
ERC25 SIZDIRMAZ PENSLELER

CLASS 2

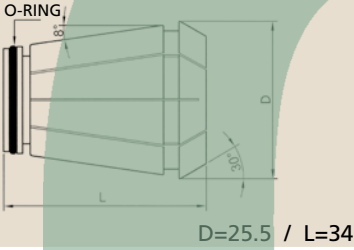
CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC250302	3	
ERC250402	4	
ERC250502	5	
ERC250602	6	
ERC250702	7	
ERC250802	8	
ERC250902	9	
ERC251002	10	
ERC251102	11	
ERC251202	12	
ERC251302	13	
ERC251402	14	
ERC251502	15	
ERC251602	16	

CLASS 1

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

TOPAC (5 micron)

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



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	

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	

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	



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

ERC32 COOLANT SEALED COLLETS
ERC32 SIZDIRMAZ PENSİLER

CLASS 2

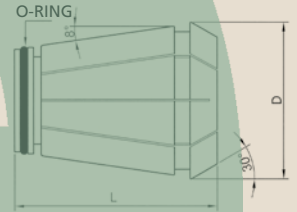
CODE / KOD	clamping dia sıkma çapı Ømm	EURO
ERC320302	3	
ERC320402	4	
ERC320502	5	
ERC320602	6	
ERC320702	7	
ERC320802	8	
ERC320902	9	
ERC321002	10	
ERC321102	11	
ERC321202	12	
ERC321302	13	
ERC321402	14	
ERC321502	15	
ERC321602	16	
ERC321702	17	
ERC321802	18	
ERC321902	19	
ERC322002	20	

CLASS 1

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

TOPAC (5 micron)

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



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 Ø3-20mm arası 1.0mm atlamalı plastik kutuda	

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 Ø3-20mm arası 1.0mm atlamalı plastik kutuda	

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 Ø3-20mm arası 1.0mm atlamalı plastik kutuda	



ERC40 COOLANT SEALED COLLETS
ERC40 SIZDIRMAZ PENSİLER

CLASS 2

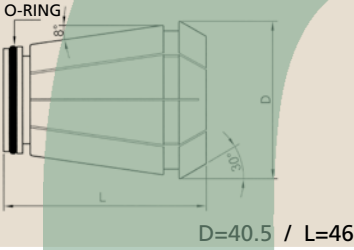
CODE KOD	clamping dia sıkma çapı Ømm	EURO
ERC400302	3	
ERC400402	4	
ERC400502	5	
ERC400602	6	
ERC400702	7	
ERC400802	8	
ERC400902	9	
ERC401002	10	
ERC401102	11	
ERC401202	12	
ERC401302	13	
ERC401402	14	
ERC401502	15	
ERC401602	16	
ERC401702	17	
ERC401802	18	
ERC401902	19	
ERC402002	20	
ERC402102	21	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

CLASS 1

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

TOPAC (5 micron)

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



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	

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	

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	



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

ERC50 COOLANT SEALED COLLETS
ERC50 SIZDIRMAZ PENSİLER

CLASS 2

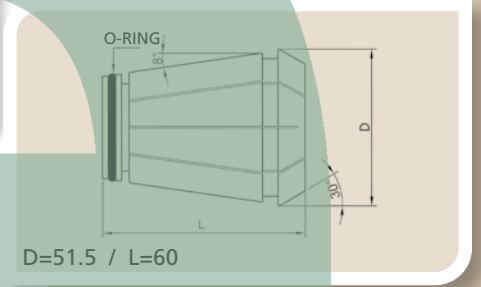
CODE KOD	clamping dia sıkma çapı Ømm	EURO
ERC500602	6	
ERC500802	8	
ERC501002	10	
ERC501202	12	
ERC501402	14	
ERC501602	16	
ERC501802	18	
ERC502002	20	
ERC502502	25	
ERC503202	32	

CLASS 1

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

TOPAC (5 micron)

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



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	

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	

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	



ERT11

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

ERT11 TAPPING ER COLLET SET / ERT11 KILAVUZ PENSLERİ 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	

* 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.



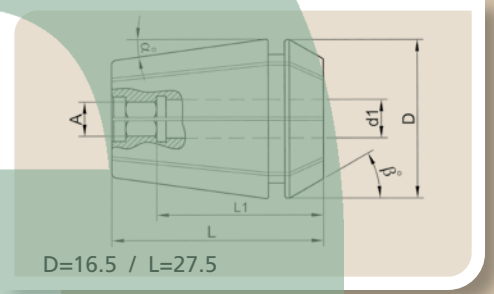
TAPPING ER COLLETS ER KILAVUZ PENSLERİ

DIN 6499 / ISO 15488

ERT16

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

** 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	



* 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.



ERT20

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

** 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	

* 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.



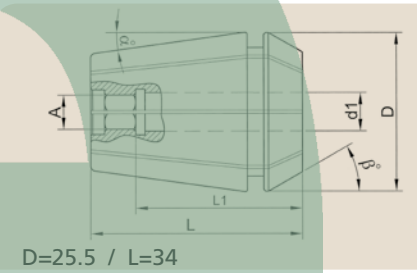
TAPPING ER COLLETS ER KILAVUZ PENSLERİ

DIN 6499 / ISO 15488

ERT25

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

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



ERT25 TAPPING ER COLLET SET / ERT25 KILAVUZ PENSLERİ 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	



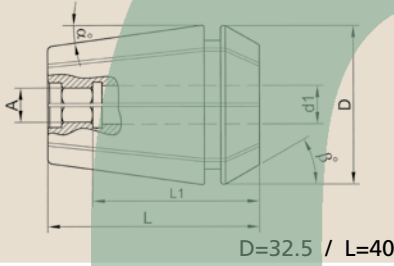
* Tap specs indicated are some of the suitable sizes only.
Tapping ER collets are all made to CL1 (Class 1 - 10 Micron) Precision Standard.
They are packed with green cap.

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



ERT32

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


ERT32 TAPPING ER COLLET SET / ERT32 KILAVUZ PENSLİ 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	



* 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.

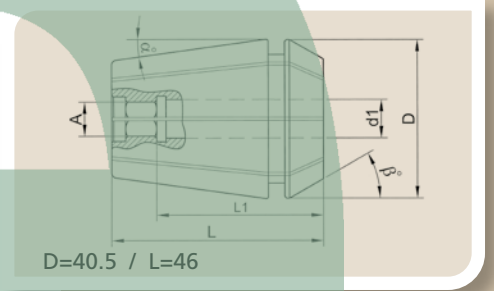


TAPPING ER COLLETS ER KILAVUZ PENSLERİ

DIN 6499 / ISO 15488

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	
ERT40045	4.5	3.4	DIN371 M4 - DIN376 M6	
ERT40050	5	4	ISO M5 - JIS M4	
ERT40055	5.5	4.5	DIN371 M4,5/M5/M6 DIN374/376 M8	
ERT40060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	
ERT40063	6.3	5	ISO M6-M8-1/4" -5/16"	
ERT40070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	
ERT40080	8	6.2/6.3	DIN371 M8 ISO M8 - M10 - 7/16" - 5/16"	
ERT40090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2"	
ERT40100	10	8	DIN371 M10 ISO M10 - 3/8"	
ERT40110	11	9	DIN 374/376 M14 - 9/16"	
ERT40120	12	9	DIN 374/376 M16 - 5/8"	
ERT40125	12.5	10	ISO M16 - 5/8" JIS M16	
ERT40140	14	11.0/11.2	DIN 374/376 M18 - JIS M18 ISO M18-M20 3/4"	
ERT40160	16	12	DIN 374/376 M20	
ERT40180	18	14.0/14.5	DIN 374/376 M22 - M24 - 7/8" ISO M24 - 1"	
ERT40200	20	16	DIN 374/376 M27 - 1" ISO M27-M30 - 1 1/8"	
ERT40220	22	18	DIN 374/376 M30 - 1 1/8"	
ERT40250	25	20	DIN 374/376 M33 - 1 1/4" ISO M36	



ERT40 TAPPING ER COLLET SET / ERT40 KILAVUZ PENSLERİ 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	



* 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.

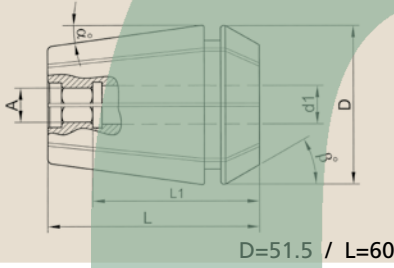


TAPPING ER COLLETS ER KILAVUZ PENSLERİ

DIN 6499 / ISO 15488

ERT50

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



ERT50 TAPPING ER COLLET SET / ERT50 KILAVUZ PENSLİ 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 kılavuz pensleri sapı Ø9-32mm kılavuzlara uygun plastik kutuda Ø9x7.1 - Ø10x8 - Ø11x9 - Ø12x9 - Ø14x11.2 - Ø16x12 Ø18x14.5 - Ø20x16 - Ø22x18 - Ø25x20 - Ø28x22 - Ø32x24	

* 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 kılavuz detaylarında uygun ölçülerin sadece bir kısmı belirtilmiştir.
Tüm kılavuz 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	
ERTC16040	4	3.2	ISO M4/M5 - JIS M3/M3.5	
ERTC16045	4.5	3.4	DIN371 M4 - DIN376 M6	
ERTC16055	5.5	4.5	DIN374/376 M7	
ERTC16060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	
ERTC16070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	
ERTC16080	8	6,2/6,3	DIN371 M8 ISO M8 - M10 - 7/16 - 5/16	
ERTC16090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2"	



ERTC20

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

* 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	
ERTC25045	4.5	3.4	DIN371 M4 - DIN376 M6	
ERTC25055	5.5	4.5	DIN374/376 M7	
ERTC25060	6	4.9	DIN371 M4,5/M5/M6 DIN374/376 M8	
ERTC25070	7	5.5	DIN371 M7 DIN374/376 M9-M10 JIS M9-M10	
ERTC25080	8	6,2/6,3	DIN371 M8 ISO M8 - M10 - 7/16 - 5/16	
ERTC25090	9	7.0/7.1	DIN 374/376 M12 ISO M12 - 1/2	
ERTC25100	10	8	DIN371 M10 ISO M10 - 3/8	
ERTC25110	11	9	DIN 374/376 M14 - 9/16	
ERTC25120	12	9	DIN 374/376 M16 - 5/8	
ERTC25140	14	11.0/11.2	DIN 374/376 M18 - JIS M18 ISO M18/M20 3/4	
ERTC25160	16	12	DIN 374/376 M20	

ERTC32

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

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



* 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.



INCH SIZED ER COLLETS İNÇ ÖLÇÜ ER PENSLER

DIN 6499 / ISO 15488-B

ER8 INCH SIZED COLLETS / ER8 İNÇ ÖLÇÜ PENSLER

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

ER11 INCH SIZED COLLETS / ER11 İNÇ ÖLÇÜ PENSLER

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

* Ø>1/4" (over Ø1/4" dia) collets are shorter then 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 İnce 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	

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 İnce 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	

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 İnce 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	

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



INCH SIZED ER COLLETS İNÇ ÖLÇÜ ER PENSLE

DIN 6499 / ISO 15488-B

ER16 INCH SIZED COLLETS / ER16 İNÇ ÖLÇÜ PENSLE

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

* 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 inç 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	

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 inç 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	

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 inç 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	



INCH SIZED ER COLLETS İNÇ ÖLÇÜ ER PENSİLER

DIN 6499 / ISO 15488-B

ER20 INCH SIZED COLLETS / ER20 İNÇ ÖLÇÜ PENSİLER

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

* 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 inç 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	

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 inç 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	

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 inç 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	



INCH SIZED ER COLLETS İNÇ ÖLÇÜ ER PENSLE

DIN 6499 / ISO 15488-B

ER25 INCH SIZED COLLETS / ER25 İNÇ ÖLÇÜ PENSLE

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

* 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.



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

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 inç 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	

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 inç 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	

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 inç 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	



ER32 INCH SIZED COLLETS / ER32 İNÇ ÖLÇÜ PENSİLER

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

* 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 İnce 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	

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 İnce 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	

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 İnce 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	



INCH SIZED ER COLLETS İNÇ ÖLÇÜ ER PENSLE

DIN 6499 / ISO 15488-B

ER40 INCH SIZED COLLETS / ER40 İNÇ ÖLÇÜ PENSLE

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



* 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"	

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"	

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"	



INCH SIZED ER COLLETS İNÇ ÖLÇÜ ER PENSİLER

DIN 6499 / ISO 15488-B

ER50 INCH SIZED COLLETS / ER50 İNÇ ÖLÇÜ PENSİLER

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

* 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 PENS 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 inç 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"	

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 inç 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"	

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 inç 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"	

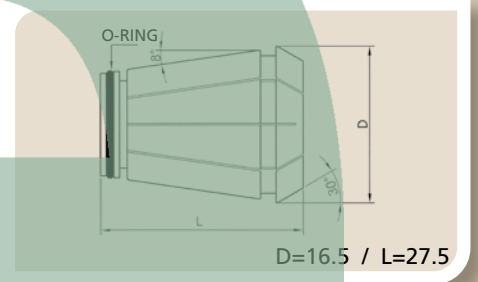


INCH SIZED COOLANT SEALED ER COLLETS for internal coolant tools İNÇ ÖLÇÜ SIZDIRMAZ PENSLEER İçten soğutmalı takımlar için

ERC16 DIN 6499 / ISO 15488

Pat. Nr. 2012 07739

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



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	

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	

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	

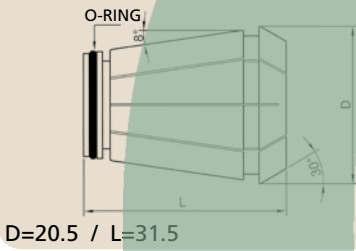


INCH SIZED COOLANT SEALED ER COLLETS for internal coolant tools İNÇ ÖLÇÜ SIZDIRMAZ PESLER İçten soğutmalı takımlar için

ERC20 DIN 6499 / ISO 15488

Pat. Nr. 2012 07739

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



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 İnc 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	

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 İnc 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	

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 İnc 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	

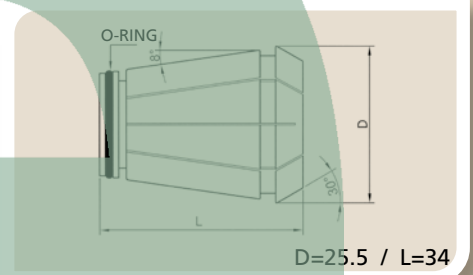


INCH SIZED COOLANT SEALED ER COLLETS for internal coolant tools İNÇ ÖLÇÜ SIZDIRMAZ PENSLEER İçten soğutmalı takımlar için

ERC25 DIN 6499 / ISO 15488

Pat. Nr. 2012 07739

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



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 İnç 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	

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 İnç 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	

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 İnç 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	

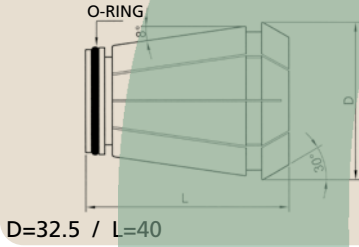


INCH SIZED COOLANT SEALED ER COLLETS for internal coolant tools İNÇ ÖLÇÜ SIZDIRMAZ PESLER İçten soğutmalı takımlar için

ERC32 DIN 6499 / ISO 15488

Pat. Nr. 2012 07739

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



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 İnce ölçü sızdırmaz 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	

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 İnce ölçü sızdırmaz 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	

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 İnce ölçü sızdırmaz 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	

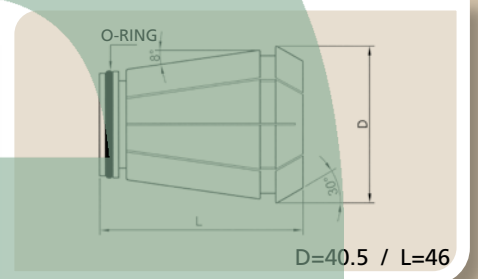


INCH SIZED COOLANT SEALED ER COLLETS for internal coolant tools İNÇ ÖLÇÜ SIZDIRMAZ PENSİLER İçten soğutmalı takımlar için

ERC40 DIN 6499 / ISO 15488

Pat. Nr. 2012 07739

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



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 İnc 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"	

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 İnc 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"	

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 İnc 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"	



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"	
ERT16IN0427	4,27 (0.168")	3,33 (0.131")	#8	
ERT16IN0493	4,93 (0.194")	3,86 (0.152")	#10	
ERT16IN0559	5,59 (0.220")	4,12 (0.162")	#12	
ERT16IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	
ERT16IN0808	8,08 (0.318")	6,05 (0.238")	5/16"	

ERT20 (INCH SIZED / İNÇ ÖLÇÜ)

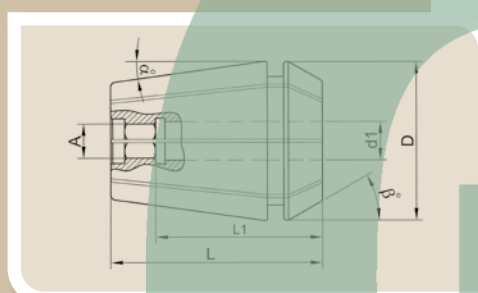
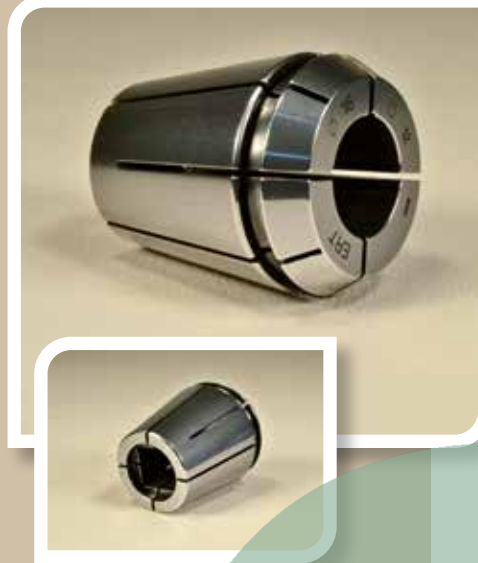
D=20,5mm / L=31,5mm

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"	
ERT20IN0427	4,27 (0.168")	3,33 (0.131")	#8	
ERT20IN0493	4,93 (0.194")	3,86 (0.152")	#10	
ERT20IN0559	5,59 (0.220")	4,12 (0.162")	#12	
ERT20IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	
ERT20IN0808	8,08 (0.318")	6,05 (0.238")	5/16"	
ERT20IN0968	9,68 (0.381")	7,26 (0.238")	3/8"	
ERT20IN0820	8,20 (0.323")	6,15 (0.242")	7/16"	
ERT20IN0932	9,32 (0.367")	6,99 (0.275")	1/2"	

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"	
ERT25IN0427	4,27 (0.168")	3,33 (0.131")	#8	
ERT25IN0493	4,93 (0.194")	3,86 (0.152")	#10	
ERT25IN0559	5,59 (0.220")	4,12 (0.162")	#12	
ERT25IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	
ERT25IN0808	8,08 (0.318")	6,05 (0.238")	5/16"	
ERT25IN0968	9,68 (0.381")	7,26 (0.238")	3/8"	
ERT25IN0820	8,20 (0.323")	6,15 (0.242")	7/16"	
ERT25IN0932	9,32 (0.367")	6,99 (0.275")	1/2"	
ERT25IN1090	10,90 (0.429")	8,18 (0.322")	9/16"	
ERT25IN1219	12,19 (0.480")	9,14 (0.360")	5/8"	
ERT25IN0793	7,93 (0.312")	5,94 (0.234")	1/8" pipe ss	
ERT25IN1113	11,13 (0.438")	8,33 (0.328")	1/8" pipe ls	

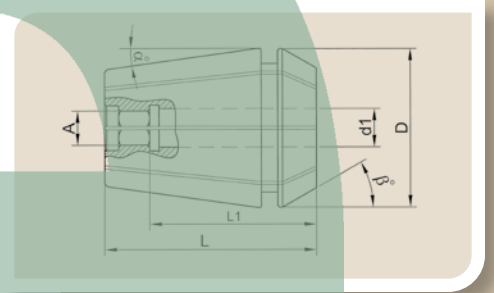


INCH SIZED TAPPING ER COLLETS İNÇ ÖLÇÜ ER KILAVUZ PENSLERİ

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"	
ERT32IN0427	4,27 (0.168")	3,33 (0.131")	#8	
ERT32IN0493	4,93 (0.194")	3,86 (0.152")	#10	
ERT32IN0559	5,59 (0.220")	4,12 (0.162")	#12	
ERT32IN0648	6,48 (0.255")	4,85 (0.191")	1/4"	
ERT32IN0808	8,08 (0.318")	6,05 (0.238")	5/16"	
ERT32IN0968	9,68 (0.381")	7,26 (0.238")	3/8"	
ERT32IN0820	8,20 (0.323")	6,15 (0.242")	7/16"	
ERT32IN0932	9,32 (0.367")	6,99 (0.275")	1/2"	
ERT32IN1090	10,90 (0.429")	8,18 (0.322")	9/16"	
ERT32IN1219	12,19 (0.480")	9,14 (0.360")	5/8"	
ERT32IN1499	14,99 (0.590")	11,23 (0.447")	3/4"	
ERT32IN0793	7,93 (0.312")	5,94 (0.234")	1/8" pipe ss	
ERT32IN1113	11,13 (0.438")	8,33 (0.328")	1/8" pipe ls	
ERT32IN1428	14,28 (0.562")	10,69 (0.421")	1/4" pipe	



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





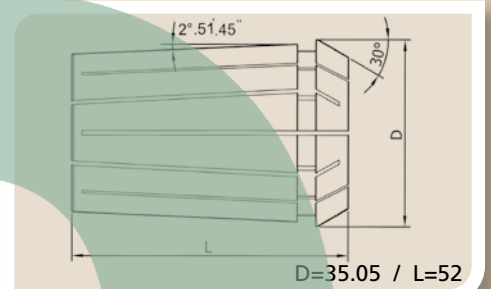
**DIN 6388 / ISO 10897 (OZ) COLLETS
REDUCTION COLLETS**

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



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

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



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

* Ø>25.4 (over Ø25.4mm dia) collets are shorter than standard. They can only clamp down Ø -0,2mm
 * Ø>25.4 (Ø25.4mm üstü çap) pensler standarttan daha kısadır. Daralma kapasitesi sadece Ø -0,2mm 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)	
content / içeriği	CODE / KOD	EURO	CODE / KOD	EURO	CODE / KOD	EURO
24pcs DIN6388B-25 collets Ø2-25mm in 1mm increments in plastic box	OZ25SET2		OZ25SET1		OZ25SETT	
24 Ad. DIN6388-25 Pens Ø2-25mm 1mm atlamalı plastik kutuda						



DIN 6388 A / ISO 10897-A* COLLETS DIN 6388 A / ISO 10897-A* PENSİLER



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

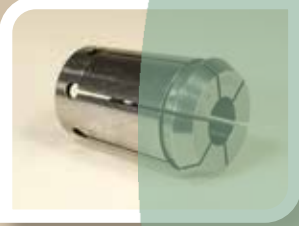
CODE / KOD OZ12A	clamping dia sıkma çapı Ømm	EURO
OZ12A0102	1	
OZ12A0202	2	
OZ12A0302	3	
OZ12A0402	4	
OZ12A0502	5	
OZ12A0602	6	
OZ12A0702	7	
OZ12A0802	8	
OZ12A0902	9	
OZ12A1002	10	
OZ12A1102	11	
OZ12A1202	12	

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

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



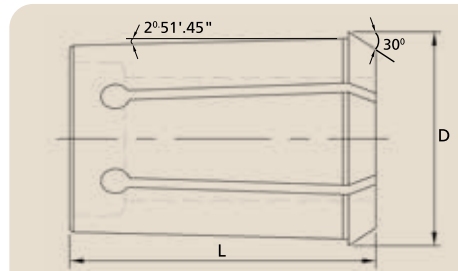
D	44mm
L	60mm
a	2° 51'45"
β	30°
CLAMPING RANGE TUTMA ARALIĞI	4.0-32.0



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	
OZ25A0302	3	
OZ25A0402	4	
OZ25A0502	5	
OZ25A0602	6	
OZ25A0702	7	
OZ25A0802	8	
OZ25A0902	9	
OZ25A1002	10	
OZ25A1102	11	
OZ25A1202	12	
OZ25A1302	13	
OZ25A1402	14	
OZ25A1502	15	
OZ25A1602	16	
OZ25A1702	17	
OZ25A1802	18	
OZ25A1902	19	
OZ25A2002	20	
OZ25A2102	21	
OZ25A2202	22	
OZ25A2302	23	
OZ25A2402	24	
OZ25A2502	25	



* 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* PENSİLER



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

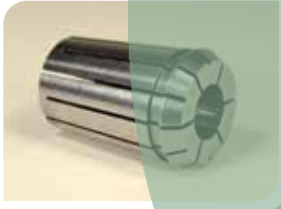
CODE / KOD OZ16B	clamping dia sıkma çapı Ømm	EURO
OZ160102	1.0-0.5	
OZ160202	2.0-1.5	
OZ160302	3.0-2.5	
OZ160402	4.0-3.5	
OZ160502	5.0-4.5	
OZ160602	6.0-5.5	
OZ160702	7.0-6.5	
OZ160802	8.0-7.5	
OZ160902	9.0-8.5	
OZ161002	10.0-9.5	
OZ161102	11.0-10.5	
OZ161202	12.0-11.5	
OZ161302	13.0-12.5	
OZ161402	14.0-13.5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

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

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



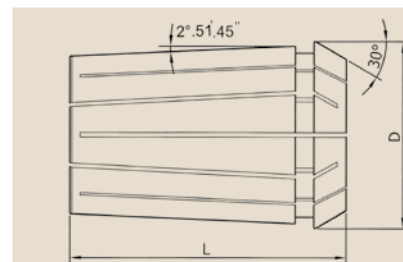
D	44mm
L	60mm
a	2° 51'45"
β	30°
CLAMPING RANGE TUTMA ARALIĞI	4.0-32.0
CLAMPING STEPS TUTMA KAPASİTESİ	0.5mm*



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	
OZ200302	3.0-2.5	
OZ200402	4.0-3.5	
OZ200502	5.0-4.5	
OZ200602	6.0-5.5	
OZ200702	7.0-6.5	
OZ200802	8.0-7.5	
OZ200902	9.0-8.5	
OZ201002	10.0-9.5	
OZ201102	11.0-10.5	
OZ201202	12.0-11.5	
OZ201302	13.0-12.5	
OZ201402	14.0-13.5	
OZ201502	15.0-14.5	
OZ201602	16.0-15.5	
OZ201702	17.0-16.5	
OZ201802	18.0-17.5	
OZ201902	19.0-18.5	
OZ202002	20.0-19.5	



* 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	
RH12025	12	2.5	40	
RH12030	12	3	40	
RH120318	12	1/8" (3.18)	40	
RH12040	12	4	40	
RH120476	12	3/16" (4.76)	40	
RH12050	12	5	40	
RH12060	12	6	40	
RH120635	12	1/4" (6.35)	40	
RH12070	12	7	40	
RH120794	12	5/16" (7.94)	40	
RH12080	12	8	40	
RH12090	12	9	40	
RH120953	12	3/8" (9.53)	40	
RH12100*	12	10	40	

* 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	
RH12SETIN	5pcs RH12 Inch sized collets Ø1/8-3/8" in box 5 Adet RH12 inç ölçü pens Ø1/8-3/8" kutu içinde Ø1/8-3/16-1/4-5/16-3/8"	

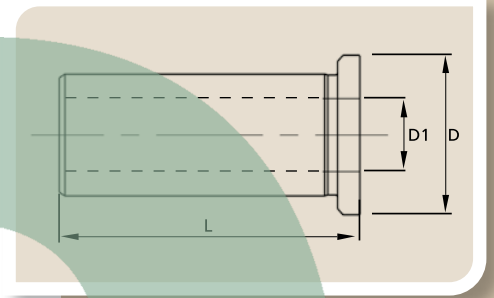


REDUCTION COLLETS FOR HYDRAULIC CHUCKS (High Precision) HİDROLİK TUTUCU İÇİN REDÜKSİYON PENSLER (Yüksek hassasiyetli)

RH20 Ø20

(Runout / Salgı: Max. 5 Micron)

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



* 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	
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"	



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

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	
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"	

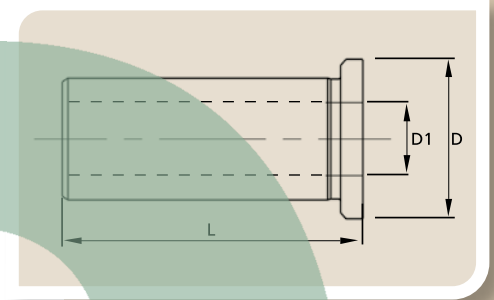


REDUCTION COLLETS FOR HYDRAULIC CHUCKS (High Precision) HİDROLİK TUTUCU İÇİN REDÜKSİYON PENSLER (Yüksek hassasiyetli)

RH32 Ø32

(Runout / Salgı: Max. 5 Micron)

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

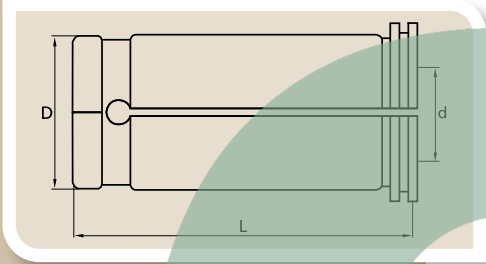


REDUCTION COLLETS FOR HYDRAULIC CHUCKS (High Precision) HİDROLİK TUTUCU İÇİN REDÜKSİYON PENSLER (Yüksek hassasiyetli)

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	
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"	



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	
SC2004	20	4	50	
SC2005	20	5	50	
SC2006	20	6	50	
SC2008	20	8	50	
SC2010	20	10	50	
SC2012	20	12	50	
SC2014	20	14	50	
SC2016	20	16	50	
SC2503	25	3	60	
SC2504	25	4	60	
SC2505	25	5	60	
SC2506	25	6	60	
SC2508	25	8	60	
SC2510	25	10	60	
SC2512	25	12	60	
SC2514	25	14	60	
SC2516	25	16	60	
SC2518	25	18	60	
SC2520	25	20	60	
SC3204	32	4	65	
SC3205	32	5	65	
SC3206	32	6	65	
SC3208	32	8	65	
SC3210	32	10	65	
SC3212	32	12	65	
SC3214	32	14	65	
SC3216	32	16	65	
SC3218	32	18	65	
SC3220	32	20	65	
SC3225	32	25	65	

Not suitable for Hydraulic chucks / Hidrolik tutucu için uygun değildir

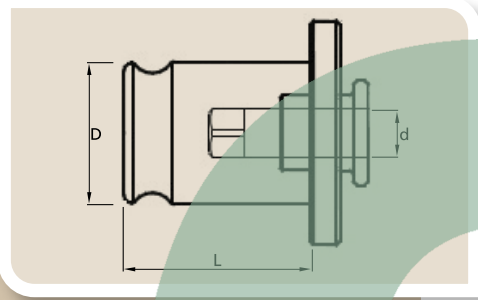




QUICK CHANGE TAP HOLDERS
KOLAY DEĞİŞİR KILAVUZ TUTUCULARI

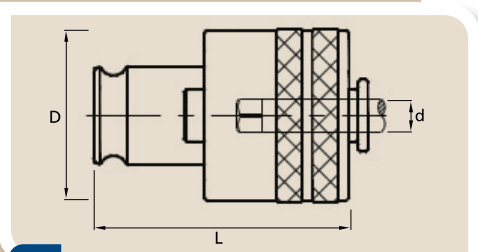


TAP HOLDER Quick Change / KILAVUZ TUTUCULARI Kolay değişebilir
Without clutch (Fixed) / Sabit tip



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	
TC104534	TC1 4.5x3.4	M4/371 M6/376	19	30	28.5	
TC106049	TC1 6x4.9	M5-M6/371 M8/376	19	30	28.5	
TC108062	TC1 8x6.2	M8/371	19	30	28.5	
TC107055	TC1 7x5.5	M10/376	19	30	28.5	
TC110080	TC1 10x8	M10/371	19	30	28.5	
TC109070	TC1 9x7	M12/376	19	30	28.5	
TC111090	TC1 11x9	M14/376	19	30	28.5	
TC206049	TC2 6x4.9	M5-M6/371 M8/376	31	48	46	
TC208062	TC2 8x6.2	M8/371	31	48	46	
TC207055	TC2 7x5.5	M10/376	31	48	46	
TC210080	TC2 10x8	M10/371	31	48	46	
TC209070	TC2 9x7	M12/376	31	48	46	
TC211090	TC2 11x9	M14/376	31	48	46	
TC212090	TC2 12x9	M16/376	31	48	46	
TC214110	TC2 14x11	M18/376	31	48	46	
TC216120	TC2 16x12	M20/376	31	48	46	
TC218145	TC2 18x14.5	M22-M24/376	31	48	46	

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



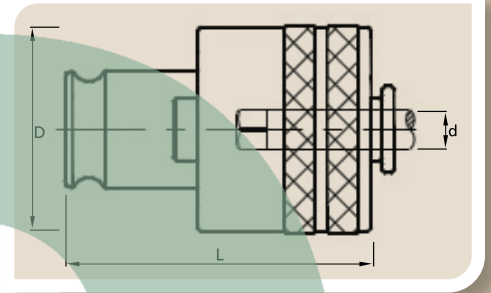
CODE / KOD	Description Ø x square mm Tanım Ø x kare mm	Suitable taps uyumlu kılavuzlar	d	D	L	EURO
TCS1M0303527	TCS1 M3 3.5x2.7	M3/371	19	33	46.5	
TCS1M0503527	TCS1 M5 3.5x2.7	M5/376	19	33	46.5	
TCS1M0404534	TCS1 M4 4.5x3.4	M4/371	19	33	46.5	
TCS1M0604534	TCS1 M6 4.5x3.4	M6/376	19	33	46.5	
TCS1M0506049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



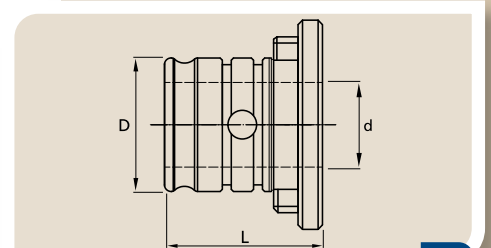
TAP HOLDER Quick Change / KILAVUZ TUTUCULARI Kolay değışebilir

With safety clutch / Emniyetli tip

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



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



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	



QUICK CHANGE TAPPING CHUCKS KOLAY DEĞİŞİR KLAVUZ ÇEKME BAŞLIKLARI

BT



Please see page 14 / Bakınız sayfa 14

DIN 69871



Please see page 26 / Bakınız sayfa 26

ISO DIN 2080



Please see page 36 / Bakınız sayfa 36

HKS 63 A



Please see page 42 / Bakınız sayfa 42

SS STRAIGHT SHANK



Please see page 46 / Bakınız sayfa 46

MT MORSE TAPER



Please see page 51 / Bakınız sayfa 51



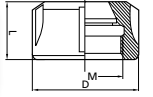


TOOLHOLDER ACCESSORIES
TUTUCU AKSESUARLARI



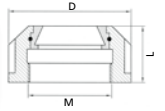
LOCKNUTS PENS SOMUNLARI

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



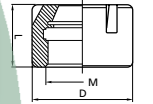
CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	D	L	M	EURO
NER16S	ER 16	32	17.5	M22x1.5	
NER20S	ER 20	35	19	M25x1.5	
NER25S	ER 25	42	20	M32x1.5	
NER32S	ER 32	50	22.5	M40x1.5	
NER40S	ER 40	63	25.5	M50x1.5	
NER50S	ER 50	78	35	M64x2	

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



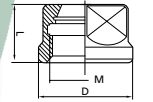
CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	D	L	M	EURO
NER25B	ER 25	42	23	M32x1.5	
NER32B	ER 32	50	25	M40x1.5	
NER40B	ER 40	63	28.5	M50x1.5	

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



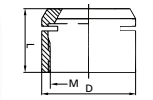
CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	D	L	M	EURO
NER08M	ER 8 MINI	12	11	M10x0.75	
NER11M	ER 11 MINI	16	12	M13x0.75	
NER16M	ER 16 MINI	22	19	M19x1	
NER20M	ER 20 MINI	28	19	M24x1	
NER25M	ER 25 MINI	35	20	M30x1	

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



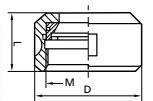
CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	D	L	M	EURO
NER11H	ER 11	19	11.3	M14x0.75	
NER16H	ER 16	28	17	M22x1.5	
NER20H	ER 20	34	19	M25x1.5	

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	
NER16HS	ER16 MINI	22	18	M19x1	
NER20HS	ER20 MINI	28	19	M24x1	

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	
NOZ16B	OZ16 410E-415E	43	24	M33x1.5	
NOZ20B	OZ20 4541E	50	28	M42x2	
NOZ25B	OZ25 444E-462E	60	30	M48x2	
NOZ32B	OZ32 450E-467E	72	34	M60x2.5	



SPANNERS ANAHTARLAR

ER STANDARD SPANNER / ER STANDART ANAHTAR

CODE / KOD	ER SIZE / ER ÖLÇÜSÜ	EURO
SPER16S	ER 16	
SPER20S	ER 20	
SPER25S	ER 25	
SPER32S	ER 32	
SPER40S	ER 40	
SPER50S	ER 50	



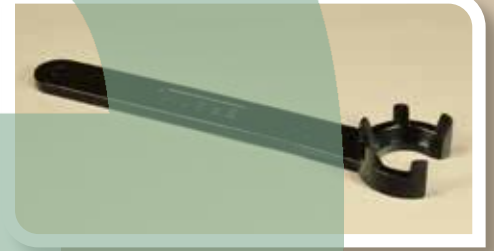
ER MOON TYPE SPANNER / ER AY TİPİ ANAHTAR

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



ER MINI SPANNER / ER MINI ANAHTAR

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



ER HEXAGON SPANNER / ER ALTIKÖŞE ANAHTAR

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



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

CODE / KOD	TYPE / TİP	EURO
SPOZ12	DIN6388D-12	
SPOZ16	DIN6388D-16	
SPOZ20	DIN6388D-20	
SPOZ25	DIN6388D-25	
SPOZ32	DIN6388D-32	



HSK63A COOLANT TUBE SPANNER / HSK63A SOĞUTUCU BORUSU ANAHTARI

CODE / KOD	HOLDER TYPE TUTUCU TİPİ	EURO
SPHSK63	HSK63A	



SPANNERS ANAHTARLAR

FACE MILL SPANNER / ALIN FREZE TUTUCU ANAHTARI

CODE / KOD	TYPE / TİP	EURO
SPFM16	FM16	
SPFM22	FM22	
SPFM27	FM27	
SPFM32	FM32	
SPFM40	FM40	

HP HOLDER SPANNER / HP TUTUCU ANAHTARI

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

ER HIGH SPEED NUT SPANNER / ER YÜKSEK HIZ SOMUNU ANAHTARI

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

EXTRACTION SPANNER FOR HYDRAULIC REDUCTION COLLET HİDROLİK REDÜKSİYON PENSİ ÇIKARMA ANAHTARI

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

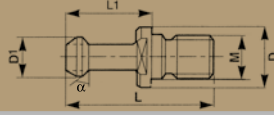
DRILL CHUCK SPANNER / MANDREN ANAHTARI

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



PULL STUDS ÇEKTİRME CİVATALARI

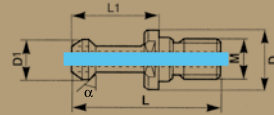
MAS 403 BT without coolant hole Soğutma deliksiz



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



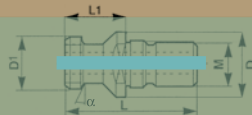
MAS 403 BT - Internal coolant İçten soğutma delikli



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



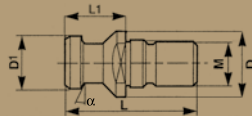
DIN 69872A - Internal coolant İçten soğutma delikli



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



DIN 69872B without coolant hole Soğutma deliksiz



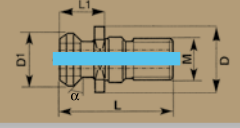
CODE KOD	Toolholder Taper Tutucu Konik	M	D	D1	L	L1	α	EURO
PS698724B	DIN40 (69871)	M16	23	19	54	26	15°	
PS698725B	DIN50 (69871)	M24	36	28	74	34	15°	



PULL STUDS ÇEKTİRME CİVATALARI



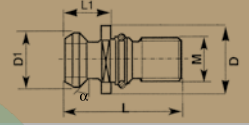
ISO 7388/2 (1984/B) - Internal coolant
İçten soğutma delikli



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



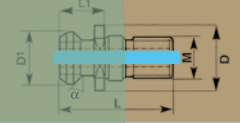
ISO 7388/2 (1984/B) - without coolant hole
Soğutma deliksiz



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



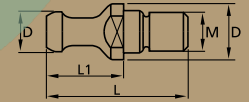
FOR MAZAK MACHINES - Internal coolant
MAZAK Tezgahlar için - İçten soğutma delikli



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



SK30 FOR CNC ROUTER MACHINES
SK30 CNC ROUTER TEZGAHLAR İÇİN



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



TOOL CLAMPING UNITS TAKIM BAĞLAMA ÜNİTELERİ

UNIVERSAL TOOL CLAMPING SET ÜNİVERSAL TAKIM BAĞLAMA SETİ

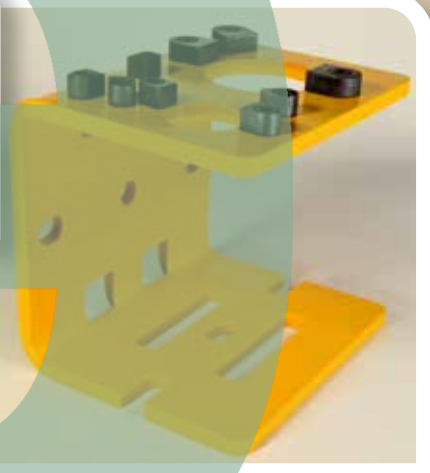
Pat.

CODE / KOD	Description / Tanımı	EURO
TBAUNI	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 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	



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

CODE / KOD	Description / Tanımı	EURO
TBA304050	Massive steel construction, usable both vertical and horizontal position Suitable for holders: BT-DIN-ISO-SK-CAT 30-40-50 tapers 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	



TOOL CLAMPING UNIT WITH SINGLE TAPER TAKIM BAĞLAMA APARATI TEK KONİKLİ

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

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	
TBAHSK50	Tool clamping unit HSK-A 50 Taper Takım bağlama aparatı HSK-A 50 konik Dimensions/Boyutlar: 75x90x65mm	
TBAHSK63	Tool clamping unit HSK-A 63 Taper Takım bağlama aparatı HSK-A 63 konik Dimensions/Boyutlar: 85x100x70mm	
TBAHSK80	Tool clamping unit HSK-A 80 Taper Takım bağlama aparatı HSK-A 80 konik Dimensions/Boyutlar: 100x120x70mm	
TBAHSK100	Tool clamping unit HSK-A 100 Taper Takım bağlama aparatı HSK-A 100 konik Dimensions/Boyutlar: 120x130x70mm	

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: EnxBoyYükseklik 100x190x140mm	

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: EnxBoyYükseklik 57x50x30mm	

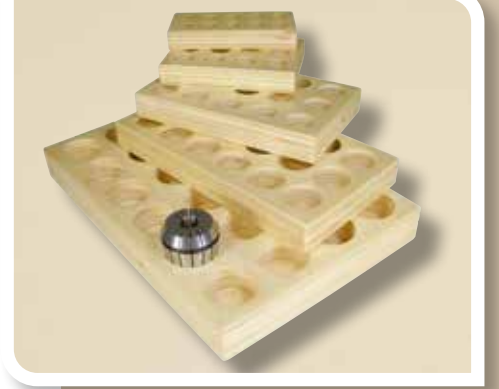
TAPER CLEANER / KONİK TEMİZLEYİCİ

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



WOODEN COLLET STANDS AĞAŞAP PENS STANTLARI

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



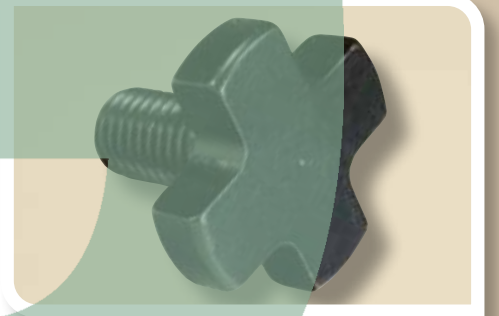
COLLET SETS ON WOODEN STANDS (Available on Request) AĞAŞAP STAND ÜZERİ PENS TAKIMLARI (Siparişe Yapılabilir)



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	
SCFM22	FACE MILL Ø22MM	M10	
SCFM27	FACE MILL Ø27MM	M12	
SCFM32	FACE MILL Ø32MM	M16	
SCFM40	FACE MILL Ø40MM	M20	



WELDON ADAPTOR SIDE LOCK SCREW / WELDON TUTUCU SABİTLEME CİVATASI

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



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	
DRCM22	DRIVE RING FOR CM22	
DRCM27	DRIVE RING FOR CM27	
DRCM32	DRIVE RING FOR CM32	
DRCM40	DRIVE RING FOR CM40	



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

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

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	



HSK63 COOLANT TUBE SPANNER / HSK63 SOĞUTUCU BORUSU ANAHTARI

CODE / KOD	HOLDER TYPE TUTUCU TİPİ	EURO
SPHSK63	HSK63A	





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 α :15°

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

138E (F20-87)

d:20 D:28 A:21 L:67 α :16°

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

Ordering example / Sipariş örneği:

138E085RS - 138E Ø 8.5mm Round Smooth

138E120H - 138E 12mm Hexagon

138E080S - 138E 8mm Square



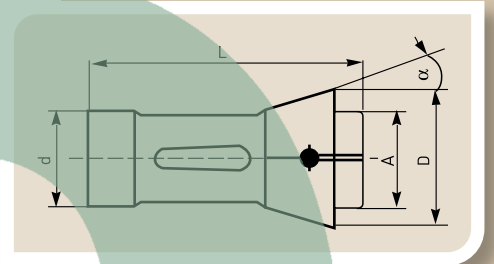
DIN 6343 WORKHOLDING COLLETS

DIN 6343 OTOMAT PENSLERİ

140E (F22)

d:22 D:30 A:21 L:55 α :15°

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



145E (F25)

d:25 D:35 A:27 L:77 α :16°

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

Ordering example / Sipariş örneği:

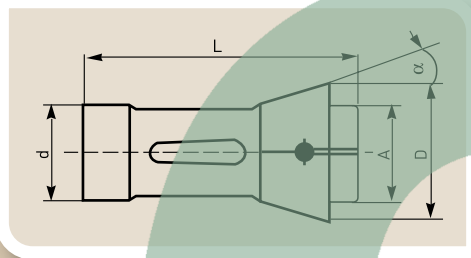
145E085RS - 145E Ø 8.5mm Round Smooth

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 α:15°

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

1446E (EF30)

d:30 D:38 A:32 L:65 α:15°

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

Ordering example / Sipariş örneği:

148E085RS - 148E Ø 8.5mm Round Smooth

148E120H - 148E 12mm Hexagon

1446E010S - 1446E 10mm Square



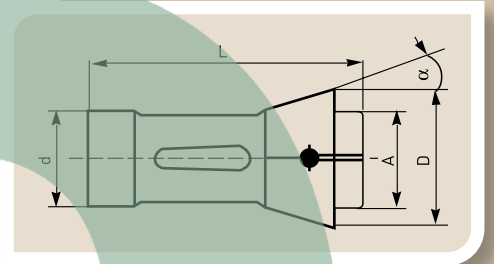
DIN 6343 WORKHOLDING COLLETS

DIN 6343 OTOMAT PENSLERİ

161E (F32)

d:32 D:45 A:34 L:75 α :15°

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



162E (F35 76-2010 INDEX 25)

d:35 D:43 A:34 L:70 α :15°

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

Ordering example / Sipariş örneği:

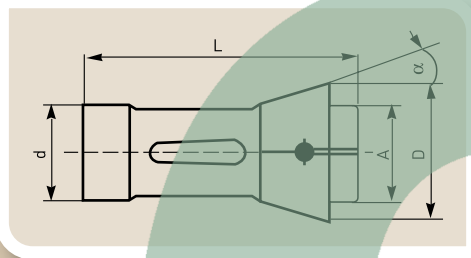
161E085RS - 161E Ø 8.5mm Round Smooth

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 α:15°

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

1536E (F37)

d:37 D:47 A:40 L:92 α:16°

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

Ordering example / Sipariş örneği:

163E085RS - 163E Ø 8.5mm Round Smooth

163E120H - 163E 12mm Hexagon

1536E120S - 1536E 12mm Square



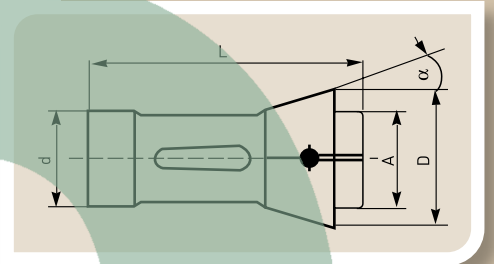
DIN 6343 WORKHOLDING COLLETS

DIN 6343 OTOMAT PENSİLERİ

164E (F38)

d:38.08 D:49 A:38 L:108 α :15°

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



171E (F42)

d:42 D:55 A:42 L:94 α :15°

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

Ordering example / Sipariş örneği:

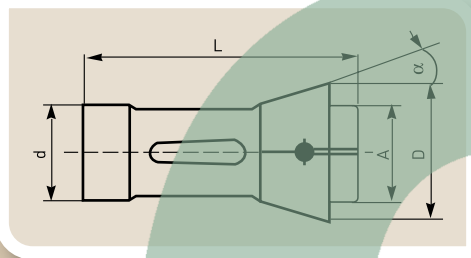
164E085RS - 164E Ø 8.5mm Round Smooth

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 α:15°

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

177E (F58)

d:58 D:70 A:60 L:94 α:15°

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

Ordering example / Sipariş örneği:

173E085RS - 173E Ø 8.5mm Round Smooth

173E120H - 173E 12mm Hexagon

177E100S - 177E 10mm Square



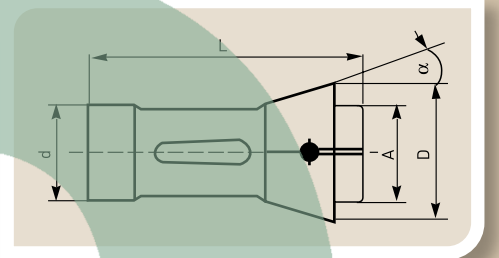
DIN 6343 WORKHOLDING COLLETS

DIN 6343 OTOMAT PENSİLERİ

185E (F66)

d:66 D:84 A:73 L:110 $\alpha:15^\circ$

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



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

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

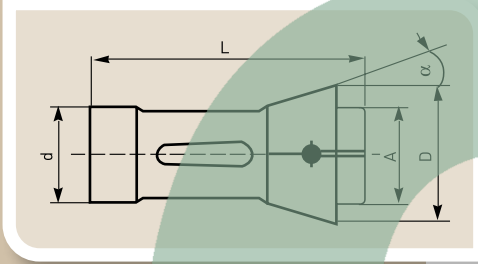
CODE / KOD	clamping dia sıkma çapı Ømm	EURO	CODE / KOD	clamping dia sıkma çapı Ømm	EURO
185E050RMS	5.0 - 4.0		185E330RMS	33.0 - 32.0	
185E060RMS	6.0 - 5.0		185E340RMS	34.0 - 33.0	
185E070RMS	7.0 - 6.0		185E350RMS	35.0 - 34.0	
185E080RMS	8.0 - 7.0		185E360RMS	36.0 - 35.0	
185E090RMS	9.0 - 8.0		185E370RMS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



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



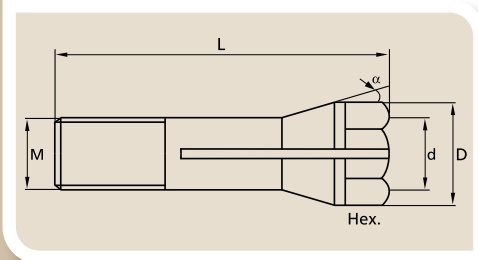
CODE KOD	Type Tip	clamping dia sıkma çapı	d	D	A	L	α	EURO
405F___RS	F4.5	Ø 1-2	4.5	6.75	4.5	17.3	15°	
405F___RS	F4.5	Ø 2.5-4	4.5	6.75	4.5	17.3	15°	
101E___RS	101E (F8)	Ø 1-2	8	12	8	42	16°	
101E___RS	101E (F8)	Ø 2.5-6	8	12	8	42	16°	
109E___RS	109E (F10)	Ø 1-2	10	15.5	10	47.5	20°	
109E___RS	109E (F10)	Ø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

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 α:10°

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



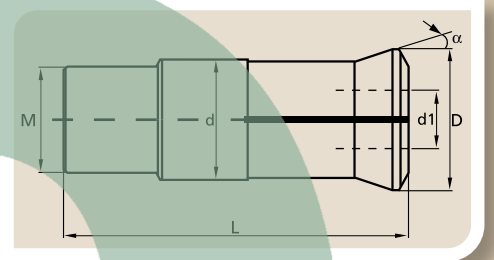
GUIDE BUSHES WITH CARBIDE BORE

YATAKLAMA SÜRÜCÜ PENSLER KARBÜR DELİKLİ

CODE KOD	d1 range Ø2-20mm	d	D	L	M	α	EURO
T223..R	2-3-4-5mm	28	34	82	M25x1	16°	
T223..R	6-7-8mm	28	34	82	M25x1	16°	
T223..R	9-10-11mm	28	34	82	M25x1	16°	
T223..R	12-13-14mm	28	34	82	M25x1	16°	
T223..R	15-16-17mm	28	34	82	M25x1	16°	
T223..R	18-19-20mm	28	34	82	M25x1	16°	

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

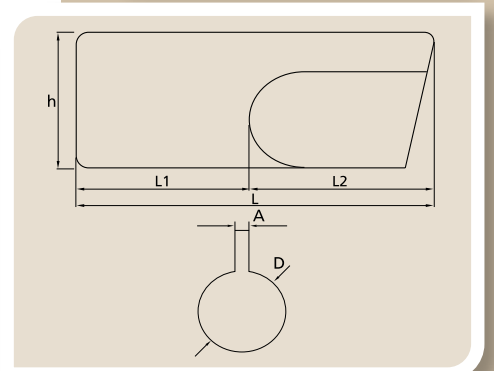
Other guide bushes are available on request
Diğer yataklama pensleri sipariş için arayınız.



DIN 6343 COLLET RUBBER PLUGS

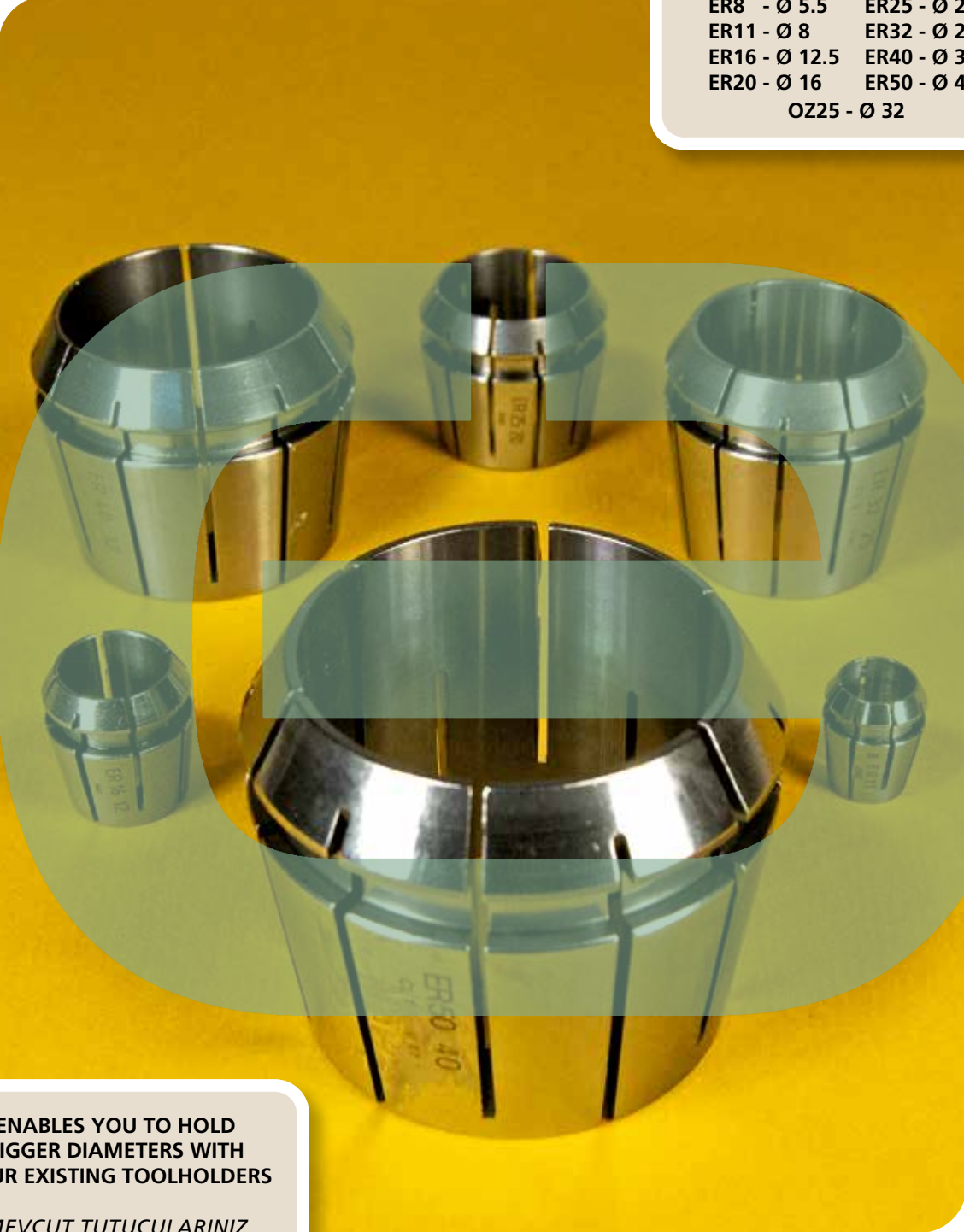
DIN 6343 PENS LASTİK TIPALARI

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	
RP63432	NR. 2	140E-145E-148E 161E-1446E	5.4	1.6	7.5	16.0	11.0	5.0	
RP63433	NR. 3	148E-161E-163E 164E-1536E	5.5	1.3	7.0	24.0	18.0	6.0	
RP63434	NR. 4	163E-164E 1536E-171E	5.6	2.0	7.5	18.0	12.0	6.0	
RP63435	NR. 5	171E-173E-177E	5.7	2.0	7.0	27.0	19.0	8.0	
RP63436	NR. 6	173E-177E-185E	6.0	2.0	8.0	35.0	25.0	10.0	
RP63437	NR. 7	177E-185E	6.5	2.5	9.0	40.0	26.0	14.0	



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



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