



Avastec Kayar Otomat Catalođu
Avastec Swiss Type Tool Catalog

2025

Maschinentyp STAR Tezgah Tipi STAR	Main Spindel Ana Ayna Pensi	Guide Bush İç Karbürlü Pens	Sub Spindle Karşı Ayna Pensi
SW 7-7	109E F10	F3001 / 3.001 / J4	109E F10
SW 7 - 10 / JNC 10 / SR 10J	120E F15	I353 / 8.001 / J6R	120E F15
ECAS 12 / SV 12 / RNC 16 A / SR 16 / SR 16 R / VNC 16 / SB 16 Typ C/D/E / SA 16 RC / SA 12/16	138E F20	F391 / 39.001 / J7AR	138E F20
SA 12	138E F20	T221 / 450.001 / B301	138E F20
SW-12R II / SB-12R Typ E/N/G	1212E F16	F853 / 166.001 / B212A	1212E F16
SI 12	138E F20	F391 / 39.001 / J7AR	120E F15
JNC 16	138E F20	T221 / 450.001 / B301	
SR 20 / SR 20 R II/III / SR 20 J / SB 20 C/E / ECAS 20 / ECAS 20 T / SW 20 / SV20	145E F25	T223 / 22.001 / B261	145E F25
SR 20 J Typ N	145E F25		145E F25
JNC 25 / JNC 32 / KNC 25 / VNC 32 / SR 32 J / ECAS 32 T / SV 32 / SV 32 JII / SR 32 J Typ N	1536E F37	T229 / 28.001 / J9	1536E F37
ST 38	173E F48	T248 / 464.001	173E F48

Maschinentyp HANWHA Tezgah Tipi HANWHA	Main Spindel Ana Ayna Pensi	Guide Bush İç Karbürlü Pens	Sub Spindle Karşı Ayna Pensi
SL 12 S/H	120E F15	F853 / 166.001 / B212A	120E F15
SL 16 S/H	140E F22	F391 / 39.001 / J7AR	140E F22
SL 20 S / XD 20 H	145E F25	T223 / 22.001 / B261	145E F25
SL 26 S/H / SL 26 HP II	161E F32	T227 / 451.001 / B227	161E F32
SL 32 S/HE / SL 32 HPD / SL 32HP II / STL 32 H	1536E F37	T229 / 28.001 / J9	1536E F37

Maschinentyp CITIZEN Tezgah Tipi CITIZEN	Main Spindel Ana Ayna Pensi	Guide Bush İç Karbürlü Pens	Sub Spindle Karşı Ayna Pensi
R 04	101E F8	I351 / 51.001 / J3	
R 07	120E F15	F3001 / 3.001 / J4	120E F15
D 10 / E 10 / F 10 / L10 / F 12	120E F15	I353 / 8.001 / J6R	120E F15
K 12 / B 12 / C 12 / M 12	1212E F16	F853 / 166.001 / B212A	1212E F16
K 16 / C 16 / M 16	138E F20	F605 / 61.002 / B238	138E F20
D 16 / F 16 / G 16 / L 16	145E F25	F605 / 61.002 / B238	145E F25
A 20 / B 20 / L 20 / M 20 / F 20	145E F25	T223 / 22.001 / B261	145E F25
A 20 / VII GBL	Z.sp. 67E		145E F25
F 25 / L 25 / E 25	157E F30	T227 / 451.001 / B227	157E F30
C 32 / F 32 / L 32 / M 32 /	1536E F37	T229 / 28.001 / J9	1536E F37

Maschinentyp NEXTURN Tezgah Tipi NEXTURN	Main Spindel Ana Ayna Pensi	Guide Bush İçi Karbürlü Pens	Sub Spindle Karşı Ayna Pensi
SA12A	1212E F16	F853 / 166.001 / B212A	1212E F16
SA 18 A / SA 20 D / SA 20 E	145E F25	T223 / 22.001 / B261	145E F25
SA 26 D / SA 26 E	161E F32	T227 / 451.001 / B227	161E F32
SA 32 D / SA 32 E	1536E F37	T229 / 28.001 / J9	1536E F37
SA 38	F44/92 / 511.026	T246 / 467.001 / B246	F44/92 / 511.026

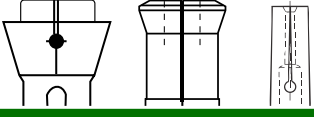
Maschinentyp TRAUB Tezgah Tipi TRAUB	Main Spindel Ana Ayna Pensi	Guide Bush İçi Karbürlü Pens	Sub Spindle Karşı Ayna Pensi
TNL 12/7	1212E F16	F605 / 61.002 / B238	1212E F16
TNL 16 bis ø 16,0	136E F20	F391 / 39.001 / J7AR	138E F20
TNL 16 bis ø 20 / TNL 16G	144E F25	T223 / 22.001 / B261	144E F25
TNL 18	145E F25	T223 / 22.001 / B261	145E F25
TNL 26	157E F30	T227 / 451.001 / B227	157E F30
TNL 26/32	1536E F37	SB.D/0001	1536E F37
TNL 32	1536E F37	EC 42 Stahlaus- führung	1536E F37

Maschinentyp TORNOS Tezgah Tipi TORNOS	Main Spindel Ana Ayna Pensi	Guide Bush İçi Karbürlü Pens	Sub Spindle Karşı Ayna Pensi
Micro 7	109E F10	F3001 / 3.001 / J4	109E F10
DECO 7	109E F10	I352 / F3001 / 3.001 / J4	109E F10
Micro 8 / Sigma 8	321E W15		116E F13
DECO 10 a/e	116E F13	I353 / 8.001 / J6R	116E F13
Delta 12/4 12/5 / Delta 20/4 20/5 / Gamma 20/5 20/6	145E F25	TD26 / 99.001	145E F25
DECO 13 a/e / EvoDECO 16 a/e / ENC 164	136E F20	F605 / 61.002 / B238	136E F20
DECO 20 a/e	145E F25	I357 / 18.001 / B260	145E F25
DECO 20 erweitert / Sigma 20	1446E F30	T227 / 451.001 / B227	145E F25
DECO 26 a/e	1446E F30	T227 / 451.001 / B227	1446E F30
DECO 26 erweitert / Sigma 32	1536E F37	T229 / 28.001 / J9	1536E F37

Maschinentyp VAN CNC Tezgah Tipi VAN CNC	Main Spindel Ana Ayna Pensi	Guide Bush İçi Karbürlü Pens	Sub Spindle Karşı Ayna Pensi
MR20-V7/V8	145E F25	T223 / 22.001 / B261	145E F25
MR38-V7/V8	173E F48	T248 / 464.001	173E F48
SMART12 V7/V8	138E F20	F391 / 39.001 / J7AR	138E F20
SMART16 V7/V8	138E F20	T221 / 450.001 / B301	
SMART20 V7/V8	145E F25	T223 / 22.001 / B261	145E F25

Maschinentyp TSUGAMI Tezgah Tipi TSUGAMI	Main Spindel Ana Ayna Pensi	Guide Bush İçi Karbürlü Pens	Sub Spindle Karşı Ayna Pensi
BO 07 / BW 07	109E F10	F3001 / 3.001 / J4	
BO 12 / BS 12 / BW 12 / NB 12 / BO 18 / BS 18	140E F22	F605 / 61.002 / B238	140E F22
BA 20 / BN 20 / BS 20	145E F25	I357 / 18.001 / B260	145E F25
HS 20-7	145E F25	TD26 / 99.001	145E F25
BA 26 / BU 26 / BS 26	161E F32	T227 / 451.001 / B227	161E F32
BS 32	1536E F37	488.001	1536E F37
BH 38	173E F48	T249 / B240 / 496.001	173E F48

Maschinentyp DOOSAN Tezgah Tipi DOOSAN	Main Spindel Ana Ayna Pensi	Guide Bush İçi Karbürlü Pens	Sub Spindle Karşı Ayna Pensi
Puma ST 20 G	145E F25	T223 / 22.001 / B261	145E F25
Puma ST 32 G	1536E F37	T229 / 28.001 / J9	1536E F37



Kayar Otomat Takımları Swiss Type Collets

Tezgaha Göre Pens Seçimi
Collet Selection by Machine 2

Kayar Otomat Pensi
Swiss Type Collets 7 

Burunlu Kayar Otomat Pensi
Collets with Extended Nose 15 

Guide Bush
Guide Bush 16 

Sürücü Pens
Bar Feed Collet 17 

Sürücü Pens Adaptörü
Bar Feed Collet Adapter 18 



Yedekler Accessories

Silindirik Şaftlı Pens Başlığı
Collet Chuck with Cylindrical Shank 21 

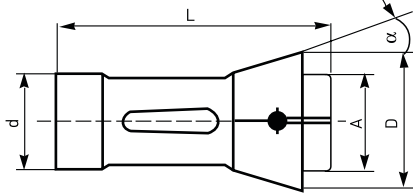
ER Pensler
ER Collets 22 

ER Mini Somun
ER Mini Locknut 27 

ER Mini Anahtar
ER Mini Spanner 28 

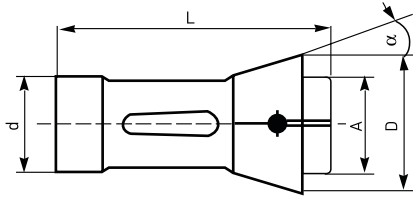


1212E (F16) Kayar Otomat Pensi
1212E (F16) Swiss Type Collets



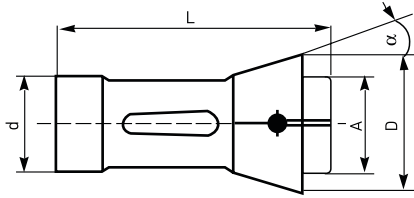
Ürün Kodu Art.-Nr.	Açıklama Description	d	D	A	L	a°
1212E.T1.Ø	Yuvarlak Main & Sub Ø 1-12mm	16	21	16	64	32
1212E.T1.Ø.	Yarım ve Ondalık Çaplar Ø 1,5-12,5mm	16	21	16	64	32
1212E.T6.Ø.	Altıköşe Ø 3-10mm	16	21	16	64	32
1212E.T4.Ø.	Kare Ø 3-8mm	16	21	16	64	32

136E (F20-201) Kayar Otomat Pensi
136E (F20-201) Swiss Type Collets



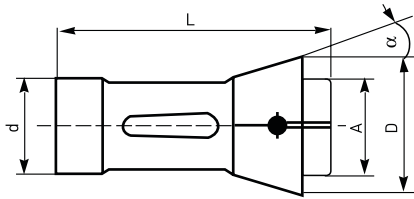
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136E.T1.Ø	Yuvarlak Main & Sub Ø 1-16mm	20	26	19	54	15
136E.T1.Ø.	Yarım ve Ondalık Çaplar Ø 3-16,5mm	20	26	19	54	15
136E.T6.Ø.	Altıköşe Ø 4-14mm	20	26	19	54	15
136E.T4.Ø.	Kare Ø 4-10mm	20	26	19	54	15

138E (F20-87) Kayar Otomat Pensi
138E (F20-87) Swiss Type Collets



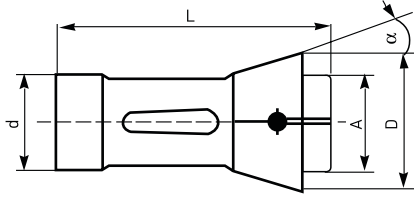
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138E.T1.Ø	Yuvarlak Main & Sub Ø 1-16mm	20	28	21	67	16
138E.T1.Ø	Yarım ve Ondalık Çaplar Ø 1-16,5mm	20	28	21	67	16
138E.T6.Ø	Altıköşe Ø 4-14mm	20	28	21	67	16
138E.T4.Ø	Kare Ø 4-10mm	20	28	21	67	16

140E (F22-A15) Kayar Otomat Pensi
140E (F22-A15) Swiss Type Collets



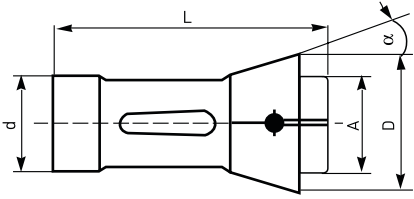
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140E.T1.Ø	Yuvarlak Main & Sub Ø 1-17mm	22	30	21	55	15
140E.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-16,5mm	22	30	21	55	15
140E.T1.Ø	Yuvarlak Main & Sub Ø 17.5-18.0mm	22	30	21	55	15
140E.T6.Ø	Altıköşe Ø 4-14mm	22	30	21	55	15
140E.T4.Ø	Kare Ø 4-12mm	22	30	21	55	15

145E (F25) Kayar Otomat Pensi
145E (F25) Swiss Type Collets



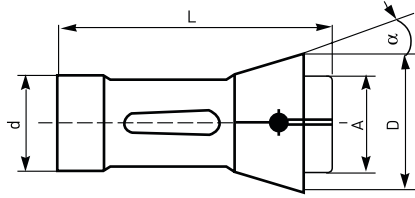
Ürün Kodu Art.-Nr.	Açıklama Description	d	D	A	L	a°
145E.T1.Ø	Yuvarlak Main & Sub Ø 1-20mm	25	35	27	77	16
145E.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-20,5mm	25	35	27	77	16
145E.T1.Ø	Yuvarlak Main & Sub Ø 20.5-21mm	25	35	27	77	16
145E.T6.Ø	Altıköşe Ø 4-16mm	25	35	27	77	16
145E.T4.Ø	Kare Ø 4-14mm	25	35	27	77	16

1446E (EF30) Kayar Otomat Pensi
1446E (EF30) Swiss Type Collets



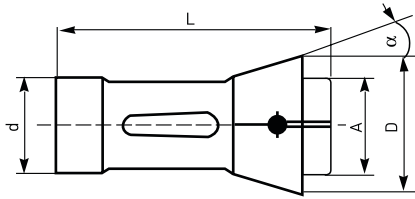
Ürün Kodu Art.-Nr.	Açıklama Description	d	D	A	L	a°
1446E.T1.Ø	Yuvarlak Main & Sub Ø 1-25mm	30	38	32	65	15
1446E.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-25,5mm	30	38	32	65	15
1446E.T1.Ø	Yuvarlak Main & Sub Ø 25.5-26mm	30	38	32	65	15
1446E.T6.Ø	Altıköşe Ø 4-22mm	30	38	32	65	15
1446E.T4.Ø	Kare Ø 4-18mm	30	38	32	65	15

161E (F32-A25) Kayar Otomat Pensi
161E (F32-A25) Swiss Type Collets



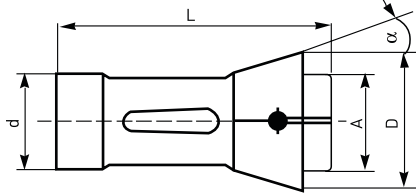
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161E.T1.Ø	Yuvarlak Main & Sub Ø 1-27mm	32	45	34	75	15
161E.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-27,5mm	32	45	34	75	15
161E.T1.Ø	Yuvarlak Main & Sub Ø 27.5-28mm	32	45	34	75	15
161E.T6.Ø	Altıköşe Ø 4-21mm	32	45	34	75	15
161E.T4.Ø	Kare Ø 4-18mm	32	45	34	75	15

163E (F35-A30) Kayar Otomat Pensi
163E (F35-A30) Swiss Type Collets



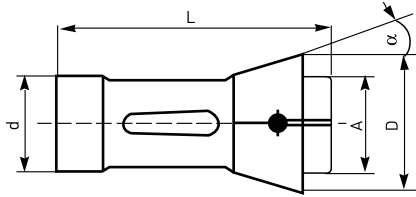
Ürün Kodu Art.-Nr.	Açıklama Description	d	D	A	L	a°
163E.T1.Ø	Yuvarlak Main & Sub Ø 1-30mm	35	48	38	80	15
163E.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-30,5mm	35	48	38	80	15
163E.T1.Ø	Yuvarlak Main & Sub Ø 30.5-31mm	35	48	38	80	15
163E.T6.Ø	Altıköşe Ø 4-25mm	35	48	38	80	15
163E.T4.Ø	Kare Ø 4-20mm	35	48	38	80	15

1536E (F37) Kayar Otomat Pensi
1536E (F37) Swiss Type Collets



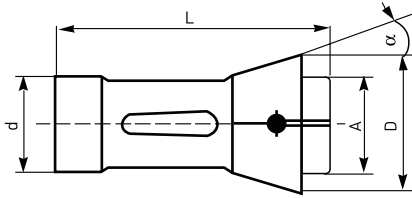
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1536E.T1.Ø	Yuvarlak Main & Sub Ø 1-32mm	37	47	40	92	16
1536E.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-32,5mm	37	47	40	92	16
1536E.T1.Ø	Yuvarlak Main & Sub Ø 32.5-33mm	37	47	40	92	16
1536E.T6.Ø	Altıköşe Ø 4-27mm	37	47	40	92	16
1536E.T4.Ø	Kare Ø 4-22mm	37	47	40	92	16

164E (F38) Kayar Otomat Pensi
164E (F38) Swiss Type Collets



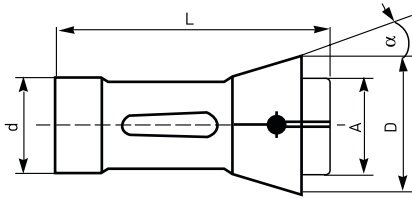
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164E.T1.Ø	Yuvarlak Main & Sub Ø 1-32mm	38.08	49	38	108	15
164E.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-32,5mm	38.08	49	38	108	15
164E.T1.Ø	Yuvarlak Main & Sub Ø 32.5-34mm	38.08	49	38	108	15
164E.T6.Ø	Altıköşe Ø 4-27mm	38.08	49	38	108	15
164E.T4.Ø	Kare Ø 4-22mm	38.08	49	38	108	15

171E (F42-36 TRAUB) Kayar Otomat Pensi
171E (F42-36 TRAUB) Swiss Type Collets



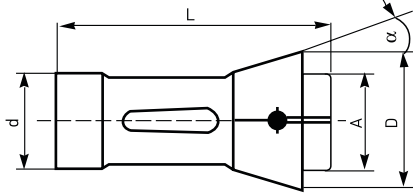
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171E.T1.Ø	Yuvarlak Main & Sub Ø 1-36mm	42	55	42	94	15
171E.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-36,5mm	42	55	42	94	15
171E.T1.Ø	Yuvarlak Main & Sub Ø 36.5-38mm	42	55	42	94	15
171E.T6.Ø	Altıköşe Ø 4-32mm	42	55	42	94	15
171E.T4.Ø	Kare Ø 4-25mm	42	55	42	94	15

F44 Kayar Otomat Pensi
F44 Swiss Type Collets



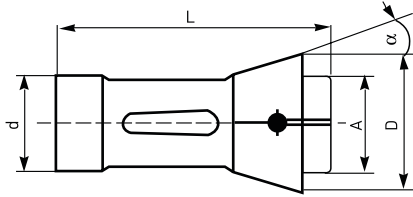
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F44.T1.Ø	Yuvarlak Main & Sub Ø 1-38mm	44	52	44	92	15
F44.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-38,5mm	44	52	44	92	15
F44.T1.Ø	Yuvarlak Main & Sub Ø 38-39.5mm	44	52	44	92	15
F44.T6.Ø	Altıköşe Ø 4-32mm	44	52	44	92	15
F44.T4.Ø	Kare Ø 4-27mm	44	52	44	92	15

173E (F48-A42) Kayar Otomat Pensi
173E (F48-A42) Swiss Type Collets



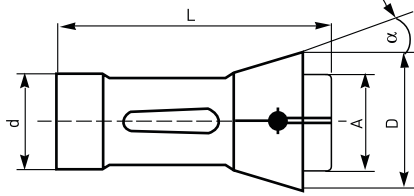
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173E.T1.Ø	Yuvarlak Main & Sub Ø 1-42mm	48	60	50	94	15
173E.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-42,5mm	48	60	50	94	15
173E.T1.Ø	Yuvarlak Main & Sub Ø 42.5-44mm	48	60	50	94	15
173E.T6.Ø	Altıköşe Ø 4-36mm	48	60	50	94	15
173E.T4.Ø	Kare Ø 4-30mm	48	60	50	94	15

177E (F58) Kayar Otomat Pensi
177E (F58) Swiss Type Collets



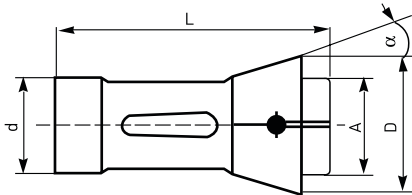
Ürün Kodu Art.-Nr.	Açıklama Description	d	D	A	L	a°
177E.T1.Ø	Yuvarlak Main & Sub Ø 1-52mm	58	70	60	94	15
177E.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-52,5mm	58	70	60	94	15
177E.T1.Ø	Yuvarlak Main & Sub Ø 52.5-54mm	58	70	60	94	15
177E.T6.Ø	Altıköşe Ø 4-45mm	58	70	60	94	15
177E.T4.Ø	Kare Ø 4-36mm	58	70	60	94	15

F54 Kayar Otomat Pensi
F54 Swiss Type Collets



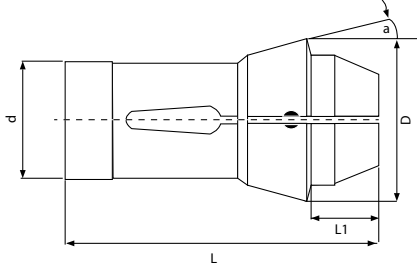
Ürün Kodu Art.-Nr.	Açıklama Description	d	D	A	L	a°
F54.T1.Ø	Yuvarlak Main & Sub Ø 1-52mm	54	64	54	95	30
F54.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-52,5mm	54	64	54	95	30
F54.T1.Ø	Yuvarlak Main & Sub Ø 52.5-54mm	54	64	54	95	30
F54.T6.Ø	Altıköşe Ø 4-45mm	54	64	54	95	30
F54.T4.Ø	Kare Ø 4-36mm	54	64	54	95	30

185E (F66-A60) Kayar Otomat Pensi
185E (F66-A60) Swiss Type Collets



Ürün Kodu Art.-Nr.	Açıklama Description	d	D	A	L	a°
185E.T1.Ø	Yuvarlak Main & Sub Ø 1-60mm	66	84	73	110	15
185E.T1.Ø	Yarım ve Ondalık Çaplar Ø 1,5-60,5mm	66	84	73	110	15
185E.T1.Ø	Yuvarlak Main & Sub Ø 60.5-62mm	66	84	73	110	15
185E.T6.Ø	Altıköşe Ø 4-52	66	84	73	110	15
185E.T4.Ø	Kare Ø 4-42mm	66	84	73	110	15

Burunlu Kayar Otomat Pensi
Swiss Type Collets with Extended Nose



Ürün Kodu Art.-Nr.	Açıklama Description	d	D	L	L1	a°
136E.T7.Ø	15mm Burunlu Pens	20	26	64	15	15
138E.T7.Ø	15mm Burunlu Pens	20	28	75	15	16
140E.T7.Ø	15mm Burunlu Pens	22	30	64	15	15
145E.T7.Ø	18mm Burunlu Pens	25	35	85	18	16
148E.T7.Ø	20mm Burunlu Pens	28	38	83	20	15
1446E.T7.Ø	20mm Burunlu Pens	30	38	79	20	15
161E.T7.Ø	20mm Burunlu Pens	32	45	87	20	15
163E.T7.Ø	28mm Burunlu Pens	35	48	100	28	15
1536E.T7.Ø	25mm Burunlu Pens	37	47	107	25	16
164E.T7.Ø	25mm Burunlu Pens	38	49	125	25	15
171E.T7.Ø	25mm Burunlu Pens	42	55	110	25	15
173E.T7.Ø	28mm Burunlu Pens	48	60	113	28	15

Tezgah Tırnakları
Toggles



Star



Hanwha



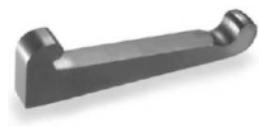
Gildemester



Citizen

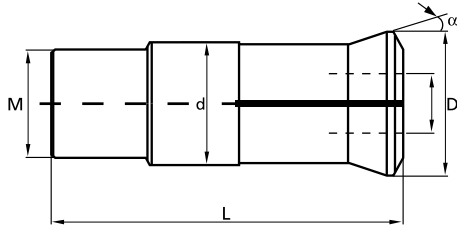


Tornos



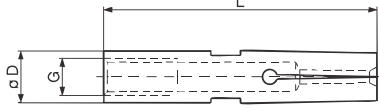
Tsugami

Guide Bush
Guide Bush



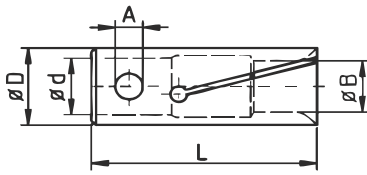
Ürün Kodu Art.-Nr.	F Kodu F Code	Ød	ØD	Diş Ölçüsü Thread Gewinde M	L	K°	Max Sıkma Çapı Maximum Bore		
							Ø	□	⬡
F 853	F16	18	21,8	M 16 x 1	59	30°	12,0	10,5	8,5
T 221	F20-38	21	24	M 18 x 1	57,5	12°	14,0	12,0	9,5
I 354	F20-38	22	29	M 19 x 1	68	16°	15,0	13,0	10,5
F 391	F20-38	22	29	M 22 x 1	68	16°	16,0	14,5	12,0
F 605	F20-38	24	29,5	M 24 x 1	61	30°	16,0	14,0	11,5
TD 26	F25	26	29	M 25 x 1	77	16°	20,0	17,5	14,0
T 223	F25	28	34	M 25 x 1	82	16°	20,0	17,0	14,0
I 357	F25	28	38	M 25 x 1	81	30°	20,0	17,0	14,0
T 227	F32	34	41	M 34 x 1	87,5	10°	27,5	24,0	19,5
T 229	F37	42	49	M 40 x 1	82	16°	33,0	29,0	24,0
T 246	F44	46	53	M 45 x 1	92	16°	38,0	32,5	26,5
T 248	F48	48	54	M 46 x 1	82	16°	38,0	33,0	27,0
T 249	F48	48	54	M 46 x 1	81	10°	38,0	33,0	27,0

Vidalı Sürücü Pens
Bar Feed Collet for Bar Loaders



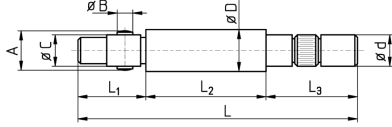
Ürün Kodu Art.-Nr.	Ürün Ölçüsü Product Size	Açıklama Description
FM.05.Ø	M5L	Sürücü Pens
FM.07.Ø	M7x0.75L	Sürücü Pens
FM.09.20.Ø	M9x1L	D15 - D20 arasında Sürücü Pens
FM.09.25.Ø	M9x1L	D21 - D25 arasında Sürücü Pens
FM.09.30.Ø	M9x1L	D26 - D30 arasında Sürücü Pens
FM.10.20.Ø	M10x1	D15 - D20 arasında Sürücü Pens
FM.10.25.Ø	M10x1	D21 - D25 arasında Sürücü Pens
FM.10.30.Ø	M10x1	D26 - D30 arasında Sürücü Pens
FM.17.32.Ø	M17x1	D32 Sürücü Pens
FM.25.40.Ø	M25x1,5L	D33 - D40 arasında Sürücü Pens
FM.25.45.Ø	M25x1,5L	D41 - D45 arasında Sürücü Pens
FM.25.50.Ø	M25x1,5L	D46 - D50 arasında Sürücü Pens

Pimli Sürücü Pens
Bar Feed Collet for Bar Loaders



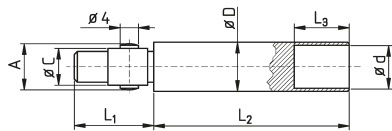
Ürün Kodu Art.-Nr.	Ürün Ölçüsü Product Size	A	Açıklama Description
FP.07.10.Ø	D10x7	7	Pimli Sürücü Pens
FP.08.12.Ø	D12x8	8	Pimli Sürücü Pens
FP.11.15.Ø	D15x11	11	Pimli Sürücü Pens
FP.14.20.Ø	D20x14	14	Pimli Sürücü Pens
FP.20.25.Ø	D25x20	20	Pimli Sürücü Pens
FP.20.30.Ø	D26x30 x20	20	Pimli Sürücü Pens
FP.20.35.Ø	D31x35 x20	20	Pimli Sürücü Pens
FP.20.40.Ø	D36x40 x20	20	Pimli Sürücü Pens
FP.20.45.Ø	D41x45 x20	20	Pimli Sürücü Pens
FP.20.50.Ø	D46x50 x20	20	Pimli Sürücü Pens

Sürücü Pens Adaptörü / Bar Feed Collet Adapter
FMB, HAGENUK, TRAUB, SYMCO, IEMCA



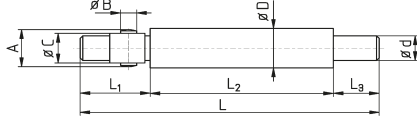
Ürün Kodu Art.-Nr.	Ød	ØD	A	B	C	L1	L2	L3	L
SPA LD 10 H	8	10	9,8	4	7	26,5	43,5	30	100
SPA LD 12 H	8	12,3	11,8	4	8	26,5	43,5	30	100
SPA LD 13 H	8	13	11,8	4	8	26,5	43,5	30	100
SPA LD 15 H/T	12	15	14,8	6	11	26,5	43,5	30	100
SPA LD 16 H/T	12	16	15,8	6	11	26,5	43,5	30	100
SPA LD 18 H/T	12	18	17,8	6	11	26,5	43,5	30	100
SPA LD 20 H/T	17	20	19,8	8	14	40,5	45,5	30	116
SPA LD 22 H/T	17	22	21,8	8	14	40,5	45,5	30	116
SPA LD 23 H/T	17	23	21,8	8	14	40,5	45,5	30	116
SPA LD 25 H/T	20	25	24,8	8	20	43	46	30	119
SPA LD 28 H/T	20	28	24,8	8	20	43	46	30	119
SPA LD 30 H/T	20	30	29,8	8	20	43	46	30	119
SPA LD 32 H/T	20	32	31,8	8	20	43	46	30	119
SPA LD 36 H/T	20	36	35,8	8	20	43	46	30	119
SPA LD 42 H/T	20	42	41,8	8	20	43	46	30	119
SPA LD 52 H/T	20	52	51,8	8	20	43	46	30	119

Sürücü Pens Adaptörü / Bar Feed Collet Adapter
TRAUB



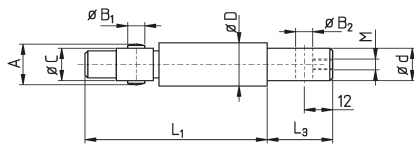
Ürün Kodu Art.-Nr.	ØD	A	C	d	L1	L2	L3
SPA LD 10 T	10	9,9	7	9	24	61	18
SPA LD 12 T	12	11,9	8	11	24	61,5	18

Sürücü Pens Adaptörü / Bar Feed Collet Adapter
TORNOS ROBOBAR



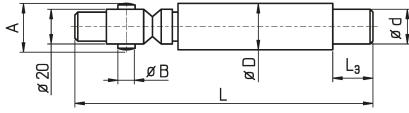
Ürün Kodu Art.-Nr.	Ød	ØD	A	B	C	L1	L2	L3	L
SPA LD ROB 055	M3	5,5	-	-	M4	7	78	8	93
SPA LD ROB 075	5	7,5	-	-	M5	7	78	16	101
SPA LD ROB 105	7	10,5	9,8	4	7	27	73	16	116
SPA LD ROB 120	8	12	11,8	4	8	28	72	16	116
SPA LD ROB 160	10	16	15,5	6	11	26	116	16	158
SPA LD ROB 180	10	18	17,8	6	11	28	116	16	160
SPA LD ROB 205	14	20,5	19,8	8	14	40	110	20	170
SPA LD ROB 250	20	25	24,8	8	20	42	117	22	181
SPA LD ROB 260	20	26	24,8	8	20	43	114	22	179

Sürücü Pens Adaptörü / Bar Feed Collet Adapter
LNS MINI-SPRINT S2



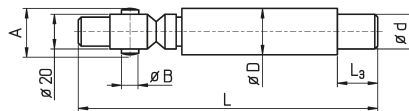
Ürün Kodu Art.-Nr.	Ød	ØD	A	B1/B2	C	L1	L3	M
SPA 10 LNS	8	10	10	4	7	67	30	M 4
SPA 12 LNS	8	12	12	4	8	69	30	-
SPA 15 LNS	12	15	15	6	11	67	30	M 5
SPA 18 LNS	12	18	18	6	11	70	30	-
SPA 20 LNS	17	20	20	8	14	81	30	M 8
SPA 25 LNS	20	25	25	8	20	85,5	30	M 8
SPA 36 LNS	30	36	36	8/-	20	158	40	-
SPA 50 LNS	42	50	-	-	20	158	50	-

Sürücü Pens Adaptörü / Bar Feed Collet Adapter
FMB



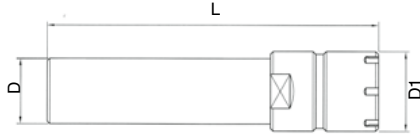
Ürün Kodu Art.-Nr.	Ød	ØD	A	B	L3	L
SPA LDTS 25	20	25	24,8	8	40	197
SPA LDTS 28	25	28	25,8	8	40	197
SPA LDTS 30	25	30	25,8	8	40	197
SPA LDTS 32	25	32	31	8	40	197
SPA LDTS 34	30	34	31	8	40	197
SPA LDTS 36	30	36	35	8	40	207
SPA LDTS 38	30	38	-	-	40	207
SPA LDTS 40	33	40	-	-	50	207
SPA LDTS 42	33	42	-	-	50	207
SPA LDTS 50	42	50	-	-	50	207
SPA LDTS 60	51	60	-	-	75	232
SPA LDTS 63	51	63	-	-	75	232
SPA LDTS 65	51	65	-	-	75	232

Sürücü Pens Adaptörü / Bar Feed Collet Adapter
TORNOS



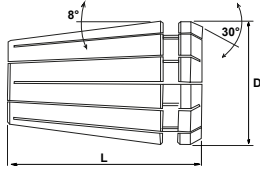
Ürün Kodu Art.-Nr.	Ød	ØD	A	B	L3	L
SPA LDTR 32	22	32	31	8	30	192
SPA LDTR 36	25	36	35	8	30	192

Silindirik Şaftlı Pens Başlığı ER8 Mini
Collet Chuck with Cylindrical Shank ER8 Mini



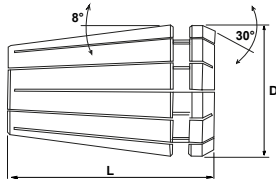
Ürün Kodu Art.-Nr.	D	D1	L	Kapasite Capacity
ER08.SPM.085.08	8	12	85	ER8 Ø1-5.5mm
ER08.SPM.095.10	10	12	95	ER8 Ø1-5.5mm
ER08.SPM.095.12	12	12	95	ER8 Ø1-5.5mm
ER08.SPM.140.12	12	12	140	ER8 Ø1-5.5mm
ER11.SPM.100.12	12	16	100	ER11 Ø1-8mm
ER11.SPM.115.16	16	16	115	ER11 Ø1-8mm
ER11.SPM.165.16	16	16	165	ER11 Ø1-8mm
ER16.SPM.090.16	16	22	90	ER16 Ø1-12mm
ER16.SPM.130.20	20	22	130	ER16 Ø1-12mm
ER16.SPM.200.20	20	22	200	ER16 Ø1-12mm
ER20.SPM.140.20	20	28	140	ER20 Ø2-16mm
ER20.SPM.200.25	25	28	200	ER20 Ø2-16mm
ER25.SPM.145.20	20	35	145	ER25 Ø1-20mm
ER25.SPM.145.25	25	35	145	ER25 Ø1-20mm
ER25.SPM.200.25	25	35	200	ER25 Ø1-20mm
ER25.SPM.110.32	32	42	110	ER25 Ø1-20mm

Er Pens (DIN 6499)
ER Collet (DIN 6499)



Ürün Kodu Art.-Nr.	Hassasiyet Precision	Ø	D	L	Kapanma Kasitesi Capacity
ER08.Ø	0,015	1.0 - 5,5mm	8.5	13	0.5mm
ER11.Ø	0,015	1.0 - 8.0mm	11.5	18	0.5mm
ER16.Ø	0,015	1.0 - 12.5mm	17	31.5	1.0mm
ER20.Ø	0,015	1.0 - 16.0mm	21	31.5	1.0mm
ER25.Ø	0,015	1.0 - 20.0mm	26	34	1.0mm
ER32.Ø	0,015	1.0 - 25.0mm	33	40	1.0mm
ER40.Ø	0,015	1.0 - 32.0mm	41	46	1.0mm

Ultra Hassas Er Pens (DIN 6499)
Ultra Precision ER Collet (DIN 6499)



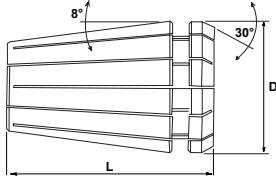
Ürün Kodu Art.-Nr.	Hassasiyet Precision	Ø	D	L	Kapanma Kasitesi Capacity
ER08.H.Ø	0,005	1.0 - 5,5mm	8.5	13	0.5mm
ER11.H.Ø	0,005	1.0 - 8.0mm	11.5	18	0.5mm
ER16.H.Ø	0,005	1.0 - 12.5mm	17	31.5	1.0mm
ER20.H.Ø	0,005	1.0 - 16.0mm	21	31.5	1.0mm
ER25.H.Ø	0,005	1.0 - 20.0mm	26	34	1.0mm
ER32.H.Ø	0,005	1.0 - 25.0mm	33	40	1.0mm
ER40.H.Ø	0,005	1.0 - 32.0mm	41	46	1.0mm

Pens Setleri
Collet Sets



Ürün Kodu Art.-Nr.	Hassasiyet Precision	Açıklama Description	Ø
ER08.SET1	0,005	9ad. ER8 Pens 0.5mm atlamalı plastik kutuda 9pcs ER8 collets. 0.5mm increment in plastic box	1 - 5mm
ER08.SET2	0,015	9ad. ER8 Pens 0.5mm atlamalı plastik kutuda 9pcs ER8 collets. 0.5mm increment in plastic box	1 - 5mm
ER11.SET1	0,005	13ad. ER11 Pens 0.5mm atlamalı plastik kutuda 13pcs ER11 collets. 0.5mm increment in plastic box	1 - 7mm
ER11.SET2	0,015	13ad. ER11 Pens 0.5mm atlamalı plastik kutuda 13pcs ER11 collets. 0.5mm increment in plastic box	1 - 7mm
ER16.SET1	0,005	10ad. ER16 Pens 1.0mm atlamalı plastik kutuda 10pcs ER16 collets. 1.0mm increment in plastic box	1 - 10mm
ER16.SET2	0,015	10ad. ER16 Pens 1.0mm atlamalı plastik kutuda 10pcs ER16 collets. 1.0mm increment in plastic box	1 - 10mm
ER20.SET1	0,005	12ad. ER20 Pens 1.0mm atlamalı plastik kutuda 12ad. ER20 collets. 1.0mm increment in plastic box	2 - 13mm
ER20.SET2	0,015	12ad. ER20 Pens 1.0mm atlamalı plastik kutuda 12ad. ER20 collets. 1.0mm increment in plastic box	2 - 13mm
ER25.SET1	0,005	15ad. ER25 Pens 1.0mm atlamalı plastik kutuda 15ad. ER25 collets. 1.0mm increment in plastic box	2 - 16mm
ER25.SET2	0,015	15ad. ER25 Pens 1.0mm atlamalı plastik kutuda 15ad. ER25 collets. 1.0mm increment in plastic box	2 - 16mm
ER32.SET1	0,005	18ad. ER32 Pens 1.0mm atlamalı plastik kutuda 18ad. ER32 collets. 1.0mm increment in plastic box	3 - 20mm
ER32.SET2	0,015	18ad. ER32 Pens 1.0mm atlamalı plastik kutuda 18ad. ER32 collets. 1.0mm increment in plastic box	3 - 20mm
ER40.SET1	0,005	23ad. ER40 Pens 1.0mm atlamalı plastik kutuda 23ad. ER40 collets. 1.0mm increment in plastic box	4 - 26mm
ER40.SET2	0,015	23ad. ER40 Pens 1.0mm atlamalı plastik kutuda 23ad. ER40 collets. 1.0mm increment in plastic box	4 - 26mm

Sızdırmaz Pens
Coolant Sealed ER Collets



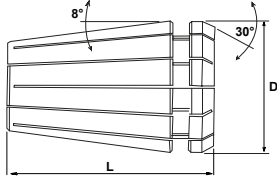
Ürün Kodu Art.-Nr.	Hassasiyet Precision	Ø	D	L
ER11.SH.07	0,005	3.0-7.0	11	18
ER11.S.03	0,015	3.0-7.0	11	18
ER16.SH.Ø...	0,005	3.0-10.0	16.5	27.5
ER16.S.Ø...	0,015	3.0-10.0	16.5	27.5
ER20.SH.Ø...	0,005	3.0-13.0	20.5	31.5
ER20.S.Ø...	0,015	3.0-13.0	20.5	31.5
ER25.SH.Ø...	0,005	3.0-16.0	25.5	34
ER25.S.Ø...	0,015	3.0-16.0	25.5	34
ER32.SH.Ø...	0,005	3.0-20.0	32.5	40
ER32.S.Ø...	0,015	3.0-20.0	32.5	40
ER40.SH.Ø...	0,005	3.0-26.0	40.5	46
ER40.S.Ø...	0,015	3.0-26.0	40.5	46

Sızdırmaz Pens Seti
Coolant Sealed ER Collets Seti



Ürün Kodu Art.-Nr.	Hassasiyet Precision	Açıklama Description	Ø
ERS11.SET1	0,005	4ad. ERS11 Pens 1.0mm atlamalı plastik kutuda 4ad. ERS11 collets. 1.0mm increment in plastic box	3 - 6mm
ERS11.SET2	0,015	9ad. ER11 Pens 0.5mm atlamalı plastik kutuda 9pcs ER11 collets. 0.5mm increment in plastic box	3 - 6mm
ERS16.SET1	0,005	8ad. ERS16 Pens 1.0mm atlamalı plastik kutuda 8ad. ERS16 collets. 1.0mm increment in plastic box	3 - 10mm
ERS16.SET2	0,015	8ad. ERS16 Pens 1.0mm atlamalı plastik kutuda 8ad. ERS16 collets. 1.0mm increment in plastic box	3 - 10mm
ERS20.SET1	0,005	11ad. ER20 Pens 1.0mm atlamalı plastik kutuda 11ad. ER20 collets. 1.0mm increment in plastic box	3 - 13mm
ERS20.SET2	0,015	11ad. ER20 Pens 1.0mm atlamalı plastik kutuda 11ad. ER20 collets. 1.0mm increment in plastic box	3 - 13mm
ERS25.SET1	0,005	14ad. ER25 Pens 1.0mm atlamalı plastik kutuda 14ad. ER25 collets. 1.0mm increment in plastic box	3 - 16mm
ERS25.SET2	0,015	14ad. ER25 Pens 1.0mm atlamalı plastik kutuda 14ad. ER25 collets. 1.0mm increment in plastic box	3 - 16mm
ERS32.SET1	0,005	18ad. ER32 Pens 1.0mm atlamalı plastik kutuda 18ad. ER32 collets. 1.0mm increment in plastic box	3 - 20mm
ERS32.SET2	0,015	18ad. ER32 Pens 1.0mm atlamalı plastik kutuda 18ad. ER32 collets. 1.0mm increment in plastic box	3 - 20mm
ERS40.SET1	0,005	23ad. ER40 Pens 1.0mm atlamalı plastik kutuda 23ad. ER40 collets. 1.0mm increment in plastic box	3 - 25mm
ERS40.SET2	0,015	23ad. ER40 Pens 1.0mm atlamalı plastik kutuda 23ad. ER40 collets. 1.0mm increment in plastic box	3 - 25mm

ER Kılavuz Pensi
Tapping ER Collets



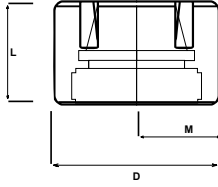
Ürün Kodu Art.-Nr.	Ø	Kare Ölçüsü Square Size
ER11K.Ø...	Ø2,5 - Ø6	2,1 - 4,9
ER16.K.Ø...	Ø2,8 - Ø9	2,1 - 7,1
ER20.K.Ø...	Ø3,5 - Ø12	2,7 - 9
ER25.K.Ø...	Ø3,5 - Ø16	2,7 - 12
ER32.K.Ø...	Ø3,5 - Ø20	2,7 - 16
ER40.K.Ø...	Ø4 - Ø25	3,1 - 20

ER Kılavuz Pens Seti
Tapping ER Collets Sets



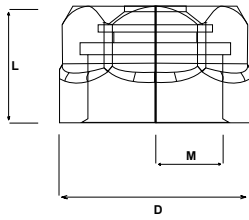
Ürün Kodu Art.-Nr.	Hassasiyet Precision	Açıklama Description	Ø
ERK11.SET1	0,005	4ad. ERS11 Pens 1.0mm atlamalı plastik kutuda 4ad. ERS11 collets. 1.0mm increment in plastic box	3 - 6mm
ERK16.SET1	0,005	8ad. ERS16 Pens 1.0mm atlamalı plastik kutuda 8ad. ERS16 collets. 1.0mm increment in plastic box	3 - 10mm
ERK20.SET1	0,005	11ad. ER20 Pens 1.0mm atlamalı plastik kutuda 11ad. ER20 collets. 1.0mm increment in plastic box	3 - 13mm
ERK25.SET1	0,005	14ad. ER25 Pens 1.0mm atlamalı plastik kutuda 14ad. ER25 collets. 1.0mm increment in plastic box	3 - 16mm
ERK32.SET1	0,005	18ad. ER32 Pens 1.0mm atlamalı plastik kutuda 18ad. ER32 collets. 1.0mm increment in plastic box	3 - 20mm
ERK40.SET1	0,005	23ad. ER40 Pens 1.0mm atlamalı plastik kutuda 23ad. ER40 collets. 1.0mm increment in plastic box	3 - 25mm

ER Mini Somun / ER Mini Locknut
DIN 6499



Ürün Kodu Art.-Nr.	Açıklama Description	D	L	Diş Ölçüsü Thread Gewinde M	Max. Tork
ERN.08M	ER 8 Mini	12	10,8	M10X0,75	8 Nm
ERN.11M	ER 11 Mini	16	12	M13X0,75	18 Nm
ERN.16M	ER 16 Mini	22	18	M19X1	28 Nm
ERN.20M	ER 20 Mini	28	19	M24X1	35 Nm
ERN.25M	ER 25 Mini	35	20	M30X1	39 Nm

ER Altıköşe Somun / ER Hexagon Locknut
DIN 6499



Ürün Kodu Art.-Nr.	Açıklama Description	D	L	Diş Ölçüsü Thread Gewinde M
ERN.11H	ER 11	19	11.3	M14x0.75
ERN.16H	ER 16	28	17	M22x1.5
ERN.20H	ER 20	34	19	M25x1.5

ER Mini Anahtar
ER Mini Spanner



Ürün Kodu Art.-Nr.	Açıklama Description
SER.08M	ER 8 Mini
SER.11M	ER 11 Mini
SER.16M	ER 16 Mini
SER.20M	ER 20 Mini
SER.25M	ER 25 Mini

Canlı Takımlar
Live Tools



Uyumlu Markaları
Compatible Brands





www.avastec.com.tr

info@avastec.com.tr

sales@avastec.com.tr