

ProChipper®

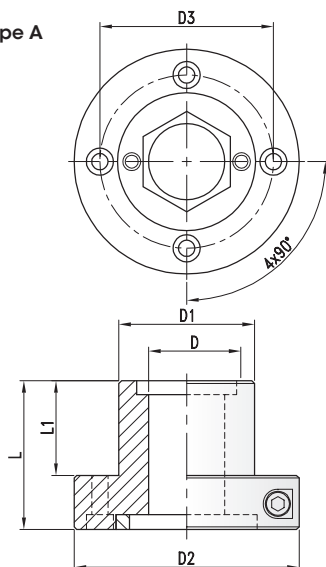


tooling systems

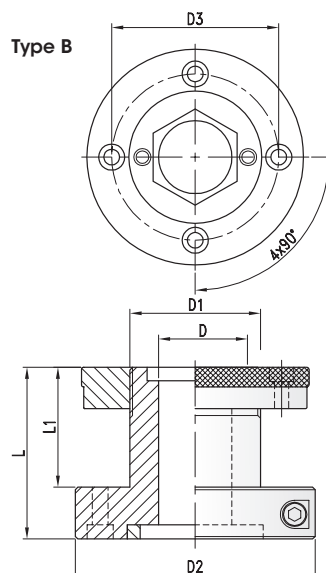


Spannsysteme, Zubehör
Clamping Systems

Type A



Type B

**HydroGrip - Offenes Hydro-Dehnspannfutter mit Fettpumpenanschluss***HydroGrip - Open hydraulic expansion chuck with grease pump connection*

D	D1	D2	D4	L	L1	Art. Nr.
Type A						
30	40	83	64	55	35	724.101
	50	83	64	55	35	724.102
35	50	83	64	55	35	724.103
	60	93	74	55	35	724.105
40	50	83	64	55	35	724.104
	60	93	74	55	35	724.106
45	60	93	74	55	35	724.107
50	60	93	74	55	35	724.111

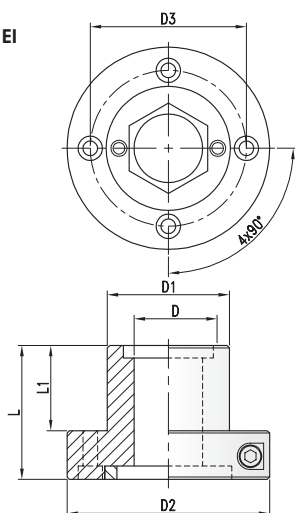
HydroGrip - Offenes Hydro-Dehnspannfutter mit Fettpumpenanschluss*HydroGrip - Open hydraulic expansion chuck with grease pump connection*

D	D1	D2	D3	D4	L	L1	L2	Art. Nr.
Type B								
30	50	83	83	64	75	40	55	724.201
35	50	83	83	64	75	40	55	724.202
	50	83	83	64	115	80	95	724.203
50	83	83	64	165	130	145		724.204
60	93	90	74	75	40	55		724.205
60	93	90	74	115	80	95		724.206
60	93	90	74	140	105	120		724.207
	50	83	83	64	75	40	55	724.211
50	83	83	64	115	80	95		724.213
	50	83	83	64	140	105	120	724.215
50	83	83	64	165	130	145		724.216
50	83	83	64	190	155	170		724.217
60	93	90	64	75	40	55		724.218
	93	90	74	115	80	95		724.220
60	93	90	74	140	105	120		724.221
	93	90	74	165	130	145		724.224
60	93	90	74	215	180	195		724.226
	60	93	90	74	75	40	55	724.228
45	60	93	90	74	115	80	95	724.230
	60	93	90	74	140	105	120	724.232
60	93	90	74	190	155	170		724.234
	60	93	90	74	240	205	220	724.236
50	60	93	90	74	75	40	55	724.238
	60	93	90	74	115	80	95	724.240
60	93	90	74	140	105	120		724.242
	93	90	74	190	155	170		724.243
60	93	90	74	240	205	220		724.245

Zubehör*Accessories*

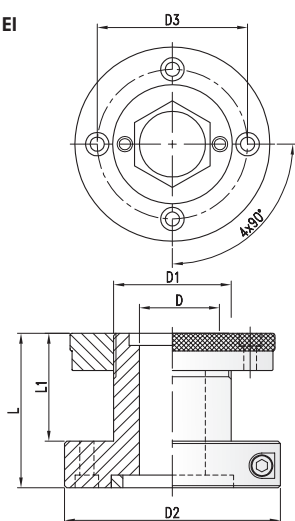
Art. Nr.
Fettpumpe - Grease pump 724.401
Fettkartusche - Grease cartridge 724.402

Type EI


HydroGrip - Geschlossenes System
HydroGrip - Closed system

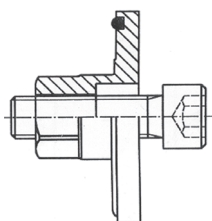
D	D1	D2	D3	L	L1	Art. Nr.
Type EI						
40	60	120	100	92	68	724.301

Type EI


HydroGrip - Geschlossenes System
HydroGrip - Closed system

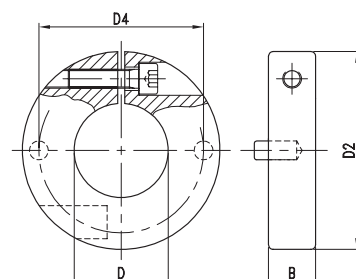
D	D1	D2	D3	L	L1	Art. Nr.
Type EI						
40	60	120	100	92	68	724.350

- Hydro-Dehnspannfutter mit Feingewindemutter für stufenlos verstellbare Werkzeuge
- *hydraulic expansion chuck with fine threaded nut for infinitely variable tools*

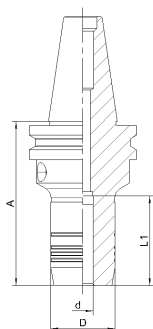

Deckscheibe für Perske Motor
Cover plate for Perske engine

Deckscheibe mit Sechskant - *Cover plate with hex end*

Art. Nr.
724.403


Klemmring
Lock ring

D	B	D2	D4	Art. Nr.
40	20	84	70	724.404.40
50	20	92	75	724.404.50


Hydro-Dehnspannfutter mit SK30-Schaftaufnahme
Hydraulic expansion chuck with ISO 30 holder

d	D	A	L2	S	Art. Nr.
10	28	55	38,5	SK30	85.010.073.030
3/8"	28	55	38,5	SK30	85.095.111.030
12	28	55	38,5	SK30	85.012.065.030
16	58	63	55	SK30	85.016.065.030
20	60	63	55	SK30	85.020.111.030
25	70	63	55	SK30	85.025.111.030

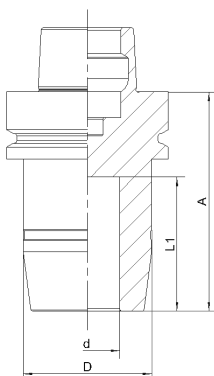
- ohne Anzugsbolzen
- without pull stud

Hydro-Dehnspannfutter mit ISO 30-Schaftaufnahme
Hydraulic expansion chuck with ISO 30 holder

d	D	A	L1	S	Art. Nr.
25	70	82	55	SK40	85.025.130.030

Hydro-Dehnspannfutter SK40
Hydraulic expansion chuck SK40

d	D	A	L1	S	Art. Nr.
25	70	78	52	SK40	85.025.146.040


Hydro-Dehnspannfutter mit HSK-Schaftaufnahme
Hydraulic expansion chuck with HSK holder

d	D	A	L2	S	Art. Nr.
20	42	85	52	HSK50F	85.020.085.050
25	50	85	52	HSK50F	85.025.085.050
6	26	80	37	HSK63F	85.006.085.063
8	28	80	37	HSK63F	85.008.085.063
10	30	80	42	HSK63F	85.010.085.063
12	32	80	47	HSK63F	85.012.085.063
14	34	80	47	HSK63F	85.014.085.063
16	38	80	52	HSK63F	85.016.085.063
18	40	80	52	HSK63F	85.018.085.063
20	42	80	52	HSK63F	85.020.085.063
25	50	85	52	HSK63F	85.025.110.063
25	50	85	52	HSK63F	85.025.117.063

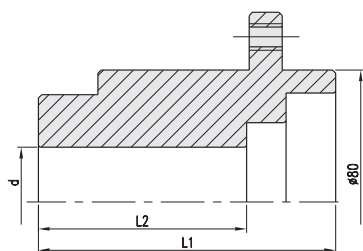
- ohne Anzugsbolzen
- without pull stud

Ersatzteile/Zubehör
Spare parts/Accessories

Art. Nr.
Quergriffschlüssel SW6 - T-handle wrench SW6
36.100.06
Anzugsbolzen - Pull stud
A424.DIV

730

Flanschbuchse Flange Bushing

PG
02

Starre Flanschbuchse Rigid flange bushing

L1	L2	d	TK	Art. Nr.
90	63	35 DKN	8/M8/100 Homag, IMA, Torwegge	730.101
97	68	40 DKN	8/M8/100 Schwabedissen, Gabianni	730.102

Zubehör Accessories

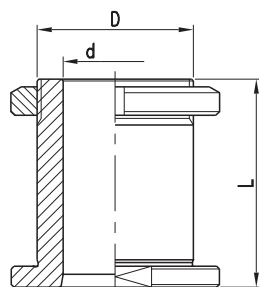
Schraube für Werkzeugmontage - Screw for tool mounting

Art. Nr.

705.700.16

704

Schraubbuchse Threaded Bushing

PG
02

Abmessungen Dimensions

d	D	L	I	Art. Nr. LH	Art. Nr. RH
30	50	85	63	704.271	704.171
	60	85	63	704.251	704.151
	50	110	88	704.281	704.181
35	60	110	88	704.261	704.161
	50	85	63	704.272	704.172
	60	85	63	704.252	704.152
40	50	110	88	704.282	704.182
	60	110	88	704.262	704.162
	50	85	63	704.273	704.173
50	60	85	63	704.253	704.153
	50	110	88	704.283	704.183
	60	110	88	704.263	704.163
50	60	85	63	704.254	704.154
	60	110	88	704.264	704.164

Zubehör Accessories

Hakenschlüssel - Hook wrench

D=50

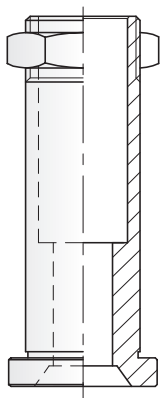
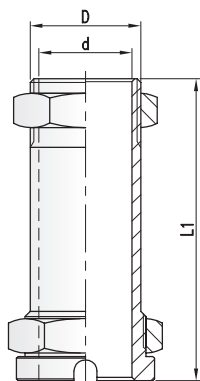
Art. Nr.

706.501

D=60

706.502

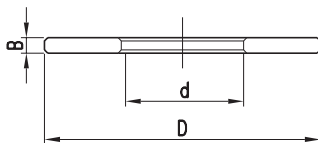
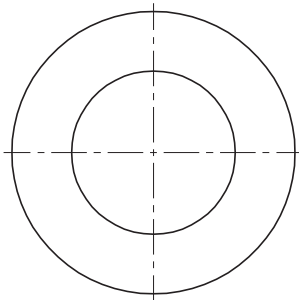



Abmessungen
Dimensions

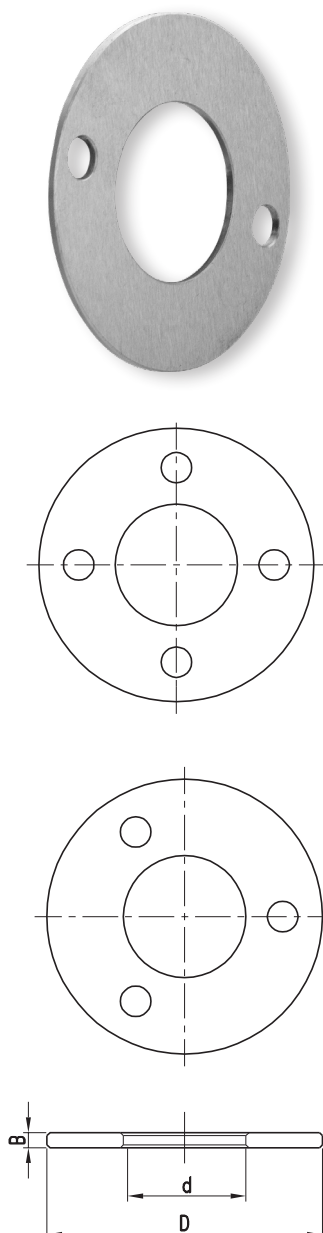
D	L	d	Modell		Art. Nr.
32	140	27	TEKNA	TK610/Z	729.211.27
32	90	14		500	729.201.14
27	90	14		MN-75-AR	◇ 729.202.14
32	90	14		MN-75-AR	729.201.14
50	85	40	ELUMATEC	AF-221, AF-222, AF-223	729.173.40
32	75	20		MA-91	729.106.20
32	160	25	IM/CRS	OL - 94	729.208.25
32	100	27	TRE-C	INTEX 2500	◇ 729.203.27
32	150	27	LGF	BEBA	729.206.27
32	140	25		DIXI	729.204.25
32	200	25		DIXI	729.207.25
32	156	19		PHANTON - M	729.301.19
32	163	25		PHANTON - SK	729.105.25
32	150	27		FR 704, FR 706	729.206.27
				FR 702, FR 703, FR 712	
32	125	22	MIEPA	MP - 130	729.303.22
32	135	27		ML - 124/OS	729.205.27
32	135	27	OMC	FEROCE, FEROCE-A	729.209.27
				MÁXIMA, TIGRA, TIGRA-A	
32	135	27	OMGA	AL -132	729.205.27
32	135	27		ML - 120	729.205.27
32	135	27	RINALDI	LILIPUT 9M 7000 FS	729.205.27
32	145	22	TEKNA	TK-641	729.104
32	70	14		FV-100-M	729.102.14
22	70	14		FV-100-M	729.103.14
32	150	24		FV-140	729.304.24
32	173	25		FV-190-A	729.302.25
32	140	25	GREENMAC	GM 4590	729.204.25

- Weitere Spannbuchsen zum Verschrauben von Werkzeug-sätzen auf Anfrage erhältlich.
- Bei Bestellung bitte Maschine und Modell angeben.
- *further clamping bushings for bolting tool sets are available on request*
- *when ordering, please specify machine and model*

- ◇ Serienartikel, kurzfristige Fertigung bei Bestellung
- ◇ *standard product, manufactured promptly upon order*

Zwischenringe aus Stahl
Spacer rings made of steel

d	B	D	Art. Nr.
30	0,1	50	34.050.077
	0,2	50	34.050.076
	0,5	50	34.050.305
	1,0	50	34.050.304
	2,0	50	34.050.320
	5,0	50	34.050.350
	7,0	50	34.050.071
	10,0	50	34.050.057
31,75	20,0	50	34.050.058
	0,1	50	34.050.001
	0,2	50	34.050.325
	0,5	50	34.050.303
	1,0	50	34.050.010
	2,0	50	34.050.205
	5,0	50	34.050.081
	7,0	50	34.050.170
35	10,0	50	34.050.082
	20,0	50	34.050.083
	0,1	55	34.055.039
	0,2	55	34.055.140
	0,5	55	34.055.041
	1,0	55	34.055.042
	2,0	55	34.055.043
	5,0	55	34.055.044
40	7,0	55	34.055.045
	10,0	55	34.055.046
	20,0	55	34.055.047
	0,1	60	34.060.123
	0,2	60	34.060.124
	0,5	60	34.060.325
	1,0	60	34.060.126
	2,0	60	34.060.125
45	5,0	60	34.060.328
	7,0	60	34.060.229
	10,0	60	34.060.231
	20,0	60	34.060.028
	0,1	65	34.065.090
	0,2	65	34.065.091
	0,5	65	34.065.092
	1,0	65	34.065.093
50	2,0	65	34.065.094
	5,0	65	34.065.095
	7,0	65	34.065.096
	10,0	65	34.065.097
	20,0	65	34.065.098
	0,1	70	34.070.036
	0,2	70	34.070.037
	0,5	70	34.070.039
60	1,0	70	34.070.040
	2,0	70	34.070.112
	5,0	70	34.070.098
	7,0	70	34.070.117
	10,0	70	34.070.031
	20,0	70	34.070.032
	0,1	80	34.080.401
	0,2	80	34.080.402
	0,5	80	34.080.403
	1,0	80	34.080.404
	2,0	80	34.080.405
	5,0	80	34.080.406
	7,0	80	34.080.407
	10,0	80	34.080.041
	20,0	80	34.080.042


Stahl-Zwischenring mit Mitnahmelöchern
Spacer ring made of steel with drive holes

d	B	D	ML/TK	Art. Nr.
20	0,1	45	4/6/32	34.045.019
	0,2	45		34.045.120
	0,5	45		34.045.021
	1,0	45		34.045.022
	2,0	45		34.045.123
	5,0	45		34.045.024
	7,0	45		34.045.125
	10,0	45		34.045.025
20	0,1	50	2/7/38	34.050.050
	0,2	50		34.050.048
	0,5	50		34.050.051
	1,0	50		34.050.052
	2,0	50		34.050.053
	3,0	50		34.050.054
	5,0	50		34.050.055
	7,0	50		34.050.049
30	0,5	60	2/7/48	34.060.081
	1,0	60		34.060.082
	2,0	60		34.060.083
	3,0	60		34.060.084
	5,0	60		34.060.085
	10,0	60		34.060.086
	5,0	85	2/7/54	34.085.070
	10,0	85		34.085.071
30	5,0	85		34.085.072
	20,0	85		34.085.073
	30,0	85		34.085.074
	40,0	85		34.085.075
	50,0	85		34.085.076
30/35	0,1	65	4/7/48	34.065.010
	0,2	65		34.065.011
	0,3	65		34.065.053
	0,5	65		34.065.050
	1,0	65		34.065.051
	2,0	65		34.065.052
	5,0	65		34.065.055
	7,0	65		34.065.057
40	10,0	65	2/7/54	34.065.060
	15,0	65		34.065.115
	20,0	65		34.065.116
	5,0	85		34.085.052
	10,0	85		34.085.054
	20,0	85		34.085.055
	30,0	85		34.085.056
	40,0	85		34.085.057
40	50,0	85		34.085.058
	0,1	85	4/7/58	34.085.401
	0,2	85		34.085.402
	0,5	85		34.085.403
	1,0	85		34.085.404
	2,0	85		34.085.405
	5,0	85		34.085.406
	10,0	85		34.085.407
	15,0	85		34.085.408
	20,0	85		34.085.409

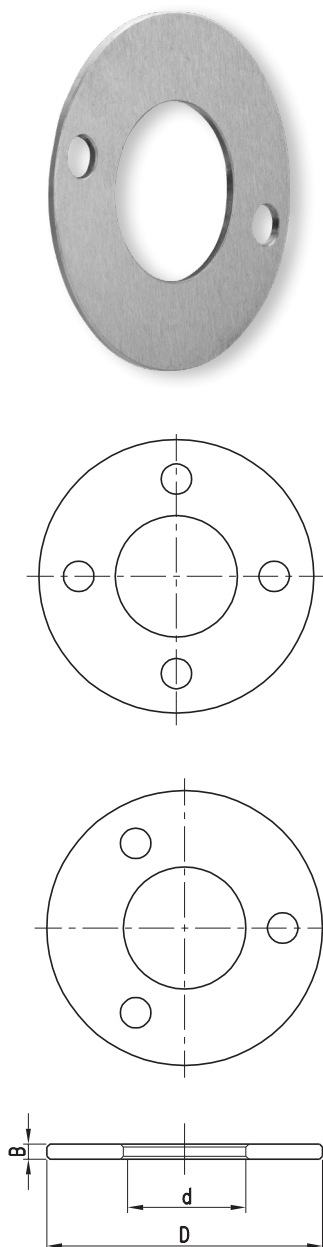
Fortsetzung auf nächster Seite
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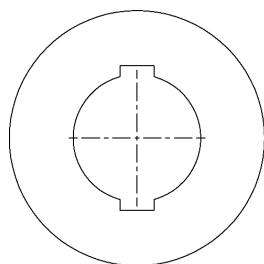
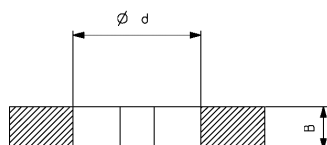
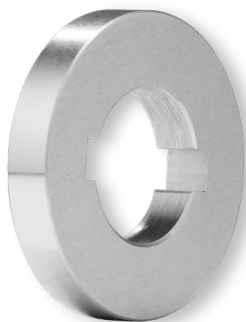

Stahl-Zwischenring mit Mitnahmelöchern
 Spacer ring made of steel with drive holes

d	B	D	ML/TK	Art. Nr.
40/50	0,1	80	4/7/65	34.080.001
	0,2	80		34.080.002
	0,5	80		34.080.082
	1,0	80		34.080.010
	2,0	80		34.080.020
	5,0	80		34.080.050
	7,0	80		34.080.086
	10,0	80		34.080.087
	15,0	80		34.080.088
	20,0	80		34.080.089
50	5,0	85	2/7/64	34.085.090
	10,0	85		34.085.091
	20,0	85		34.085.092
	30,0	85		34.085.093
	40,0	85		34.085.094
	50,0	85		34.085.095
60	0,05	90	3/9/74	34.090.015
	0,1	90		34.090.083
	0,2	90		34.090.021
	0,3	90		34.090.022
	0,5	90		34.090.005
	1,0	90		34.090.040
	3,0	90		34.090.002
	5,0	90		34.090.014
	10,0	90		34.090.018
	15,0	90		34.090.043
	20,0	90		34.090.044

Zwischenringe zur Feineinstellung
 Spacer rings for fine adjustment

d	B	D	ML/TK	Art.Nr.
20	0,1	50	2/7/36	34.050.047
	0,05	50	2/7/36	34.050.015
30	0,1	60	2/7/48	34.060.079
	0,05	60	2/7/46	34.060.078

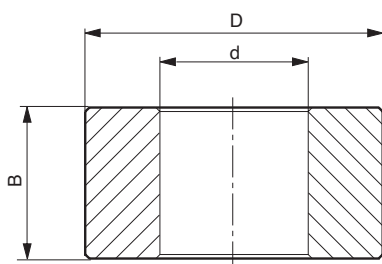



Zwischenringe - Präzisionsausführung mit Doppelkeilnut
Spacer rings - High-precision design with double keyway

d	B	D	DKN	Art. Nr.
20	1,0	36	6x2,8	34.036.010
	2,0	36		34.036.020
	5,0	36		34.036.050
	10,0	36		34.036.100
30	1,0	50	8x3,5	34.050.504
	2,0	50		34.050.502
	3,0	50		34.050.503
	5,0	50		34.050.505
	10,0	50		34.050.510
30	1,0	60	8x3,3	34.060.092
	2,0	60		34.060.093
	2,5	60		34.060.097
	3,0	60		34.060.094
	5,0	60		34.060.095
	10,0	60		34.060.096

Zwischenringe mit Doppelkeilnut zur Feineinstellung
Spacer rings with double keyway for fine adjustment

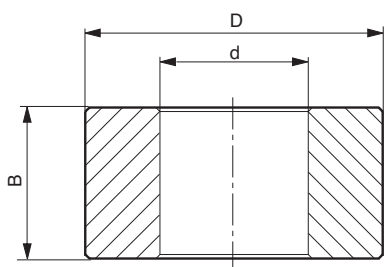
d	B	D	DKN	Art. Nr.
20	0,05	36	6x2,8	34.036.005
	0,1	36	6x2,8	34.036.001
30	0,05	50	8x3,3	34.050.005
	0,1	50	8x3,3	34.050.101
30	0,5	50	8x3,5	34.050.555
30	0,05	60	8x3,3	34.060.066
	0,1	60	8x3,3	34.060.090
	0,2	60	8x3,3	34.060.100
	0,5	60	8x3,3	34.060.091


Stahl-Reduzierhülse
Adapter sleeve made of steel

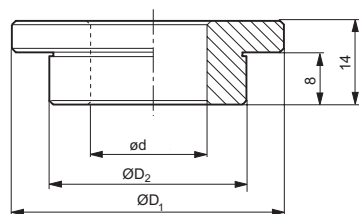
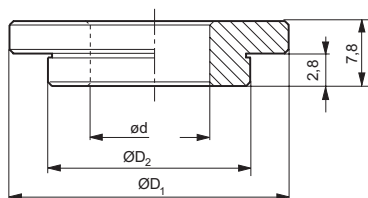
D	B	D	Art. Nr.
35	2	30	714.101
	5	30	714.102
	10	30	714.103
	15	30	714.104
	20	30	714.105
	30	30	714.106
	40	30	714.107
40	50	30	714.108
	2	30	714.251
	5	30	714.252
	10	30	714.253
	15	30	714.254
	20	30	714.255
	30	30	714.256
40	40	30	714.257
	50	30	714.258
	2	31,75	714.151
	5	31,75	714.152
	10	31,75	714.153
	15	31,75	714.154
	20	31,75	714.155
40	30	31,75	714.156
	40	31,75	714.157
	50	31,75	714.158
	2	35	714.201
	5	35	714.202
	10	35	714.203
	15	35	714.204
40	20	35	714.205
	30	35	714.206
	40	35	714.207
	50	35	714.208
45	2	30	714.301
	5	30	714.302
	10	30	714.303
	15	30	714.304
	20	30	714.305
	30	30	714.306
	40	30	714.307
50	50	30	714.308
	2	30	714.451
	5	30	714.452
	10	30	714.453
	15	30	714.454
	20	30	714.455
	30	30	714.456
50	40	30	714.457
	50	30	714.458
	2	35	714.401
	5	35	714.402
	10	35	714.403
	15	35	714.404

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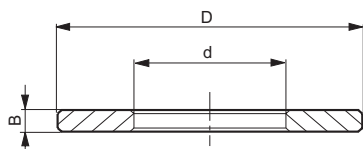

**Stahl-Reduzierhülse***Adapter sleeve made of steel*

D	B	D	Art. Nr.
	20	35	714.405
	30	35	714.406
	40	35	714.407
	50	35	714.408
50	2	40	714.351
	5	40	714.352
	10	40	714.353
	15	40	714.354
	20	40	714.355
	30	40	714.356
	40	40	714.357
	50	40	714.358
50	2	45	714.501
	5	45	714.502
	10	45	714.503
	15	45	714.504
	20	45	714.505
	30	45	714.506

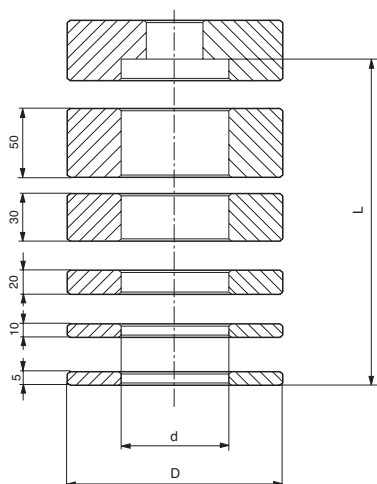
**Stahl-Reduzierring***Reducing ring made of steel*

d	D ₂	D ₁	Art. Nr. Type 1	Art. Nr. Type 2
30	35	49	713.101	713.115
	40	54	713.102	713.116
	45	59	713.103	713.117
	50	64	713.104	713.118
31,75	35	49	713.105	713.119
	40	54	713.106	713.120
	45	59	713.107	713.121
	50	64	713.108	713.122
35	40	54	713.109	713.123
	45	59	713.110	713.124
	50	64	713.111	713.125
40	45	50	713.112	713.126
	50	64	713.113	713.127
45	50	64	713.114	713.128

- Lieferung erfolgt als Set mit 2St.
- *delivery includes a set of 2 pcs.*


Stahl-Zwischenring
Spacer ring made of steel

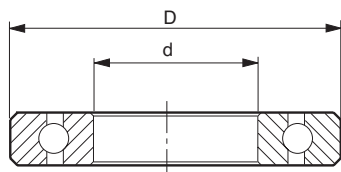
D	B	d	Art. Nr.
16	2	30	712.113
20	2	30	712.112
	2	32	712.110
	2	35	712.106
25	2	20	712.114
	2	30	712.111
	2	32	712.109
	2	35	712.105
25,4	2	32	712.108
30	2	32	712.107
	2	35	712.104
32	2	35	712.103
	2	40	712.102
35	2	40	712.101

**Stahl-Reduzierring***Reducing ring made of steel*

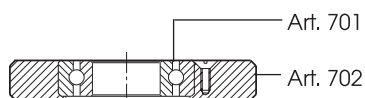
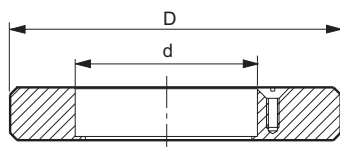
d	D	L	Art. Nr.
30	43	200	715.300
35	48	200	715.350
40	54	200	715.400
45	62	245	715.450
50	65	245	715.500

Ringsatz*Ring set*

L=200	2x5; 2x10; 3x20; 2x30; 1x50
L=245	3x5; 2x10; 1x20; 3x30; 2x50

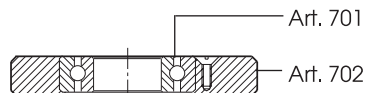
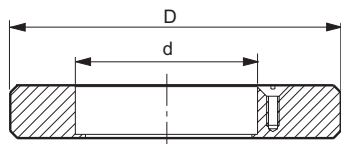
**Kugellager***Ball bearing*

D	d	Art. Nr.
9,5	3,1	701.051
9,5	4,7	701.052
12,7	4,7	701.053
19	6	701.054
22	8	701.055
55	30	701.101
62	35	701.102
68	40	701.103
75	45	701.104
80	50	701.105
69	31	701.106

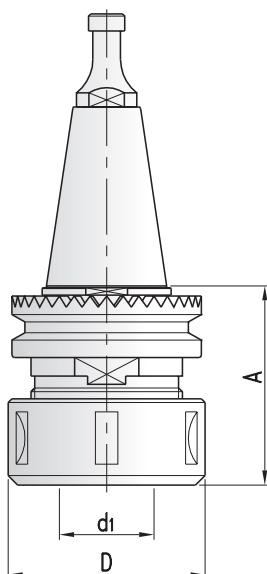

Anlauftring
Guide ring

d	B	D	Art. Nr.
55	15,5	70	702.101
	15,5	75	702.106
	15,5	80	702.105
	15,5	85	702.107
	15,5	86	702.104
	15,5	90	702.108
	15,5	94	702.102
	15,5	95	702.109
	15,5	100	702.110
	15,5	105	702.111
	15,5	110	702.112
	15,5	115	702.113
	15,5	120	702.103
	15,5	125	702.115
62	15,5	130	702.116
	15,5	135	702.117
	15,5	140	702.118
	16,5	75	702.145
	16,5	78	702.146
	16,5	80	702.147
	16,5	85	702.148
	16,5	90	702.149
	16,5	95	702.150
	16,5	100	702.151
	16,5	105	702.152
	16,5	110	702.153
	16,5	115	702.154
	16,5	120	702.155
68	16,5	125	702.156
	16,5	130	702.157
	16,5	135	702.158
	16,5	140	702.159
	17,5	75	702.170
	17,5	80	702.171
	17,5	85	702.172
	17,5	90	702.173
	17,5	95	702.174
	17,5	100	702.175
	17,5	105	702.176
	17,5	110	702.177
	17,5	115	702.178
	17,5	120	702.179
	17,5	125	702.180
	17,5	130	702.181
	17,5	135	702.182
	17,5	140	702.183

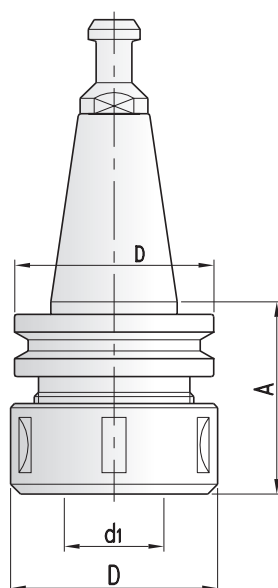
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Anlaufring
Guide ring

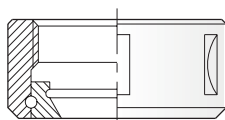
d	B	D	Art. Nr.
69,85	16,5	80	702.125
	16,5	85	702.126
	16,5	90	702.127
	16,5	95	702.128
	16,5	100	702.129
	16,5	105	702.130
	16,5	110	702.131
	16,5	115	702.132
	16,5	120	702.133
	16,5	125	702.134
	16,5	130	702.135
	16,5	135	702.136
	16,5	140	702.137
75	18,5	90	702.190
	18,5	95	702.191
	18,5	100	702.192
	18,5	105	702.193
	18,5	110	702.194
	18,5	115	702.195
	18,5	120	702.196
	18,5	125	702.197
	18,5	130	702.198
	18,5	135	702.199
	18,5	140	702.200
80	18,5	90	702.210
	18,5	95	702.211
	18,5	100	702.212
	18,5	104	702.221
	18,5	105	702.213
	18,5	110	702.214
	18,5	115	702.215
	18,5	120	702.216
	18,5	125	702.217
	18,5	130	702.218
	18,5	135	702.219
	18,5	140	702.220
	18,5	114	702.222
	18,5	109,5	702.224



- Für Links- und Rechtslauf
- For RH and LH rotation



- Für Links- und Rechtslauf
- for RH and LH rotation



- Kugelgelagerte Spannmutter
- ball bearing mounted collet nut

ISO 30 - Spannzangenfutter mit Spannmutter

ISO 30 - Collet chuck with collet nut

S	Nr.	D	A	d1	Art. Nr.
SCM, Morbidelli, verzahnt - geared					
ISO 30	6	50	55	6-20 (ER32)	86.055.230
	6	60	72	6-25 (462E)	86.072.230

Zubehör

Accessories

	D	Dim.	Art. Nr.
Spannmutter - Collet nut	50	M40x1,5	88.470.050
	60	M48x2	88.462.060
Schlüssel - Wrench	50	45/50	706.504
	60	58/62	706.503

SK-Spannzangenfutter mit Spannmutter

SK collet chuck with collet nut

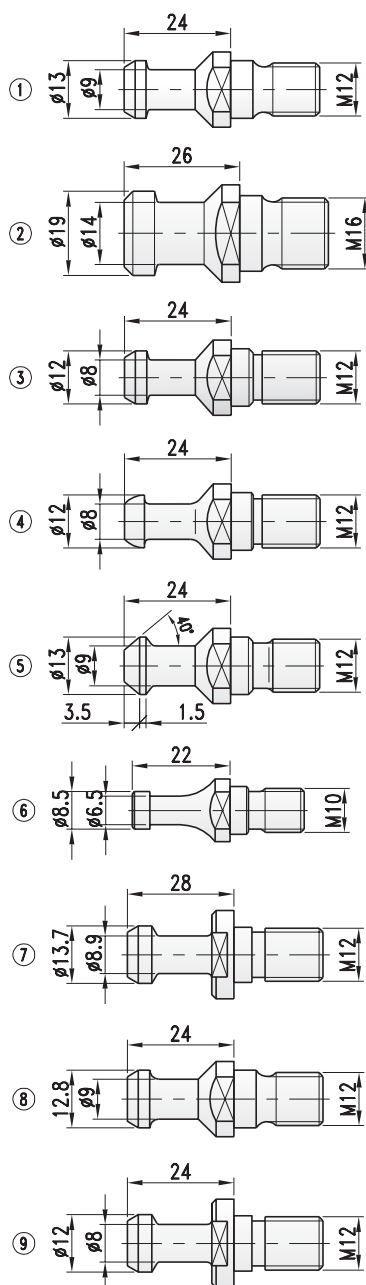
S	Nr.	D	A	d1	Art. Nr.
IMA, Maka, Reichenbacher, Biesse, Alberti, Stiegherr etc.					
SK30	1	50	63	6-20 (ER32)	86.163.030
	1	63	63	6-25 (ER40)	86.063.030
SK40	2	60	70	6-25 (462E)	86.070.060
Biesse (bis 9/92 - up to 9/92)					
SK30	3	50	63	6-20 (ER32)	86.163.130
	3	63	63	6-25 (ER40)	86.063.130
Biesse (ab 9/92, HSD-Spindel - after 9/92, HSD spindle)					
SK30	4	50	63	6-20 (ER32)	86.163.230
	4	63	63	6-25 (ER40)	86.063.230
Alberti					
SK30	5	50	63	6-20 (ER32)	86.063.330
	5	63	63	6-25 (ER40)	86.163.330
Masterwood (bis 1/99, HSD-Spindel - up to 1/99, spindle HSD)					
SK30	4	50	63	6-20 (ER32)	86.163.231
Masterwood (ab 1/99, Spindel Colombo - after 1/99, spindle Colombo)					
SK30	5	63	63	6-25 (ER40)	86.163.331
CMS					
ISO 30	8	50	46	6-20 (ER32)	86.046.130
	8	63	70	6-25 (ER40)	86.060.130
Heian					
BT35	7	60	70	6-25 (ER40)	86.070.160
Esseteam (Spindel Elite), Stemm					
SK30	9	50	60	6-20 (ER32)	86.060.050
	9	63	67	6-25 (ER40)	86.067.063

- Inklusive Anzugsbolzen und Spannmutter
- including pull stud and collet nut

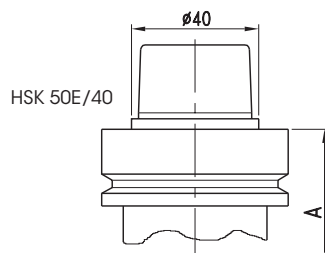
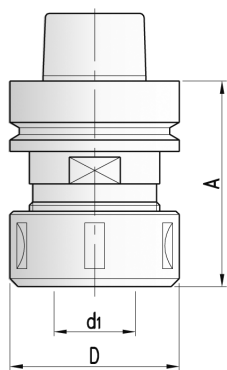
Ersatzteile

Spare parts

	D	Dim.	Art. Nr.
Spannmutter - Collet nut	50	M40x1,5	88.470.050
	60	M48x2	88.462.060
	63	M50x1,5	88.472.063
Schlüssel - Wrench	50	45/50	706.504
	60	58/62	706.503

Anzugsbolzen
Pull studs

Nr.	S	Maschine	Art. Nr.
1	SK30	IMA, Maka, Reichenbacher, Weeke etc. (DIN 69872)	3972.000.001
2	SK40	IMA, Maka, Reichenbacher, Weeke etc. (DIN 69872)	3972.000.002
3	SK30	Biesse (bis - up to 9/92)	3972.000.003
4	SK30	Biesse (nach - after 9/92), Masterwood (Motor HSD)	3972.000.004
5	SK30	Alberti, Masterwood (Motor Colombo)	3972.000.005
6	ISO30	SCM, Morbidelli	3972.000.006
7	BT35	Heian, Shoda	3972.000.007
8	ISO30	CMS	3972.000.008
9	SK30	Stemm, Esseteam (Motor Elfe)	3972.000.009



HSK 50E/40

- Für Links- und Rechtslauf
for RH and LH rotation

HSK-Spannzangenfutter mit Spannmutter
HSK collet chuck with collet nut

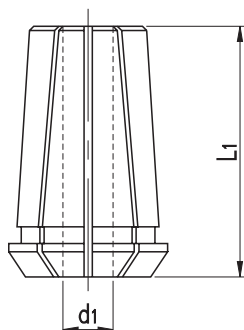
A	D	d1	HSK/SpZ	Art. Nr.
76	63	2-26	HSK63E/472E	84.018.070.063
70	50	2-20	HSK63E/470E	84.018.170.063
70	43	2-16	HSK63E/430E	84.018.100.063
76	60	2-25	HSK63E/462E	84.018.176.063
76	63	2-26	HSK63F/472E	84.018.276.063
70	50	2-20	HSK63F/470E	84.018.370.063
70	43	2-16	HSK63F/430E	84.018.470.063
76	60	2-25	HSK63F/462E	84.018.075.063
76	60	2-25	HSK63F/462E	84.009.075.063
115	60	2-25	HSK63F/462E	84.009.115.063
115	60	2-25	HSK63F/462E	84.018.115.063
76	60	2-25	HSK63F/462E	84.018.075.050
115	60	2-25	HSK63F/462E	84.018.115.050
60	50	2-20	HSK40E/470E	84.018.060.050
65	63	2-25	HSK50E/472E	84.018.065.063

- Lieferung ohne Spannzange
- *collet not included*

Ersatzteile
Spare parts

	D	Dim.	Art. Nr.
Spannmutter - Collet nut	35	M30x1,0	88.430.035
	50	M40x1,5	88.470.050
	60	M48x2	88.462.060
	63	M50x1,5	88.472.063
Schlüssel - Wrench	50	45/50	706.504
	60	58/62	706.503

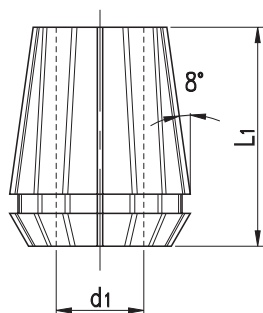
- Kugelgelagerte Spannmutter
- Weitere Abmessungen, siehe ProLock Spanntechnik Prospekt
- *ball bearing mounted collet nut not included*
- *for further dimensions, see ProLock Clamping Systems brochure*



- Weitere Größen auf Anfrage
- *further dimensions available on request*

Spannzangen DIN 6388/462E
Collets DIN 6388/462E

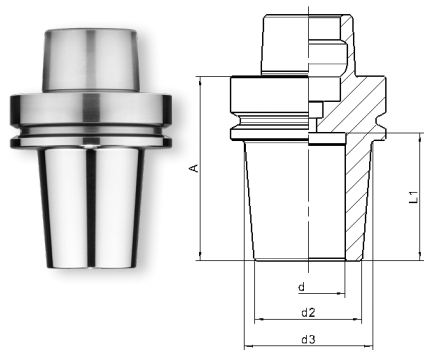
d1	L1	Typ	Art. Nr.
2	52	DIN 6388 / 462E / OZ	87.462.02
3			87.462.03
4			87.462.04
5			87.462.05
6			87.462.06
8			87.462.08
10			87.462.10
12			87.462.12
14			87.462.14
16			87.462.16
18			87.462.18
20			87.462.20
25			87.462.25



- Weitere Größen auf Anfrage
- further dimensions available on request

ER-Spannzangen
ER collets

d1	D	L1	Typ	Art. Nr.
bis 12 mm - up to 12 mm				
2	21	31	DIN 6499 / 428E / ER20	87.428.02
3				87.428.03
4				87.428.04
5				87.428.05
6				87.428.06
8				87.428.08
10				87.428.10
12				87.428.12
bis 16 mm - up to 16 mm				
2	26	34	DIN 6499 / 430E / ER25	87.430.02
3				87.430.03
4				87.430.04
5				87.430.05
6				87.430.06
8				87.430.08
10				87.430.10
12				87.430.12
14				87.430.14
16				87.430.16
bis 20 mm - up to 20 mm				
2	33	40	DIN 6499 / 470E / ER32	87.470.02
3				87.470.03
4				87.470.04
5				87.470.05
6				87.470.06
7(6,35)				87.470.07
8				87.470.08
10				87.470.10
12				87.470.12
13(12,7)				87.470.13
14				87.470.14
16				87.470.16
18				87.470.18
20				87.470.20
bis 25 mm - up to 25 mm				
2	41	46	DIN 6499 / 472E / ER40	87.472.02
3				87.472.03
4				87.472.04
5				87.472.05
6				87.472.06
7(6,35)				87.472.07
8				87.472.08
10				87.472.10
12				87.472.12
13(12,7)				87.472.13
14				87.472.14
16				87.472.16
18				87.472.18
20				87.472.20
25				87.472.25

**HSK63F-Schrumpffutter***HSK63F induction shrink fit chuck*

A	d	d2	S	Art. Nr.
75	6	20	HSK63F	82.006.075.063
	8	20	HSK63F	82.008.075.063
	10	24	HSK63F	82.010.075.063
	12	24	HSK63F	82.012.075.063
	16	27	HSK63F	82.016.075.063
	20	33	HSK63F	82.020.075.063
	25	38	HSK63F	82.025.075.063

SK30-Schrumpffutter*SK30 induction shrink fit chuck*

A	d	d2	S	Art. Nr.
70	10	20	SK30	80.010.070.030
70	12	24	SK30	80.012.070.030
70	14	27	SK30	80.014.070.030
70	16	27	SK30	80.016.070.030
70	20	33	SK30	80.020.070.030
70	25	44	SK30	80.025.070.030

SK40-Schrumpffutter*SK40 induction shrink fit chuck*

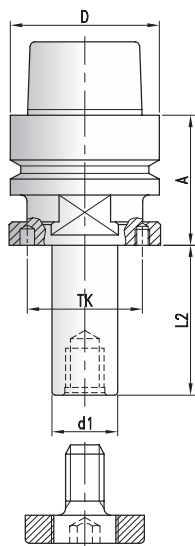
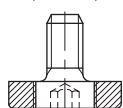
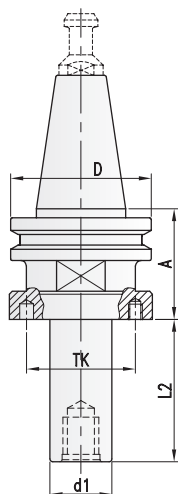
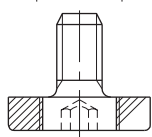
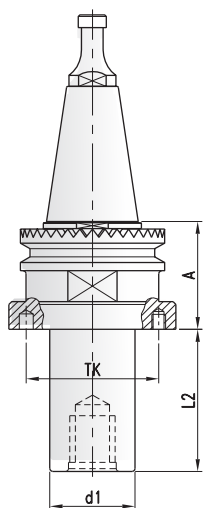
A	d	d2	S	Art. Nr.
80	6	20	SK40	81.006.080.040
80	8	20	SK40	81.008.080.040
80	10	24	SK40	81.010.080.040
80	12	24	SK40	81.012.080.040
80	16	27	SK40	81.016.080.040
80	20	33	SK40	81.020.080.040
80	25	44	SK40	81.025.080.040

Schrumpfverlängerung - zylindrisch*Shrink fit extension - cylindrical*

D	d	d2	A	L2	Art. Nr.
20	3	10	150	-	80.030.150.20
20	4	10	150	-	80.040.150.20
20	5	10	150	-	80.050.150.20
20	6	10	150	10	80.060.150.20
20	8	12	150	10	80.080.150.20
20	10	14	150	10	80.100.150.20
20	12	16	150	10	80.120.150.20
25	8	20	150	10	80.080.150.25
25	10	20	150	10	80.100.150.25
25	12	20	150	10	80.120.150.25
25	14	20	150	10	80.140.150.25
25	16	22	150	10	80.160.150.25

Der Einsatz eines Induktions-Schrumpfgerätes ermöglicht das Ein- und Ausschumpfen von Hartmetall- und Stahlschäften in die entsprechenden Schrumpffutter. Vorteile sind höchste Rundlaufgenauigkeit (max. 0,003 mm), schlanke Störkontur, höchste Haltekraft und direkte, formstabile Einspannung. Für Rechts- und Linkslauf geeignet.

Using an induction shrink fit system enables the shrinking in and out of carbide and steel shanks in the corresponding shrink fit chucks. Benefits include maximum run-out accuracy (max. 0.003 mm), a slim interference contour, maximum gripping force and direct, dimensionally stable clamping. Suitable for right-hand and left-hand rotation.


ISO30-Fräsdorn
ISO30 cutter arbor

d1	L2	A	TK	S	D	Nr.	Art. Nr.
SCM, Morbidelli, verzahnt - geared							
20	40	45	38	ISO30		6	47.020.340.030
	70	45		ISO30		6	47.020.370.030
30	40	45	48	ISO30		6	47.030.340.030
	80	45		ISO30		6	47.030.380.030
CMS							
20	40	42	38	ISO30	46	8	47.020.440.030
	70					8	47.020.470.030
30	40	42	48	ISO30	46	8	47.030.440.030
	80					8	47.030.480.030

- Lieferung ohne Distanzringe und Anzugsbolzen
- *spacers and pull studs not included*

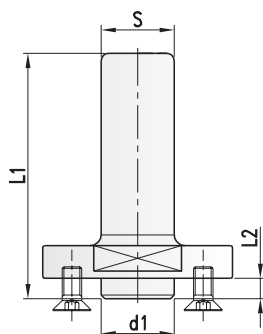
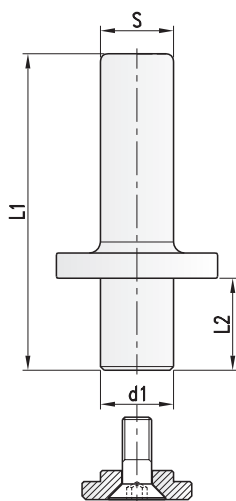
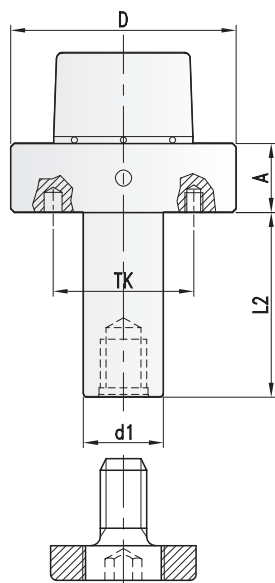
SK-Fräsdorn
SK cutter arbor

d1	L2	A	TK	S	Art. Nr.
IMA, Maka, Reichenbacher, Weeke, Biesse, Alberti, Stegherr etc.					
20	40	42	38	SK30	47.020.240.030
	70				47.020.270.030
20	40	42	38	SK40	47.020.240.040
	70				47.020.270.040
30	40	42	48	SK30	47.020.140.030
	80				47.030.080.030
30	40	42	48	SK40	47.030.140.040
	80				47.030.180.040

- Lieferung ohne Distanzringe und Anzugsbolzen
- *spacers and pull studs not included*

HSK-Fräsdorn
HSK cutter arbor

d1	L2	A	TK	S	D	Art. Nr.
20	70	45	38	HSK 63F	63	47.020.070.163
30	20	45	48	HSK 63F	63	47.030.020.063
	40	45		HSK 63F	63	47.030.040.263
	55	45		HSK 63F	63	47.030.056.063
	80	45		HSK 63F	63	47.030.080.163
	100	45		HSK 63F	63	47.030.100.063
Lange Ausführung - Long-reach version						
20	40	80	38	HSK 63F	63	47.020.040.063
	70	80		HSK 63F	63	47.020.070.063
30	20	75	48	HSK 63F	63	47.030.020.163
	40	75		HSK 63F	63	47.030.040.463
	55	75		HSK 63F	63	47.030.055.163
	80	75		HSK 63F	63	47.030.080.263
	100	75		HSK 63F	63	47.030.100.163
	80	80		HSK 63F	63	47.030.080.363



- Für Lamello-Nuter mit Bohrung 22
- for groove cutter "Lamello" with d1=22

HSK-Fäsdorn für automatischen Werkzeugwechsel - mit beidseitiger Passfeder
HSK cutter arbor for automatic tool change - with double-sided feather key

d1	L2	ML	A	S	Art. Nr.
30	40	2/6/48+2/M6/48	26	HSK85WS 85	47.030.040.085
	60	2/6/48+2/M6/48	26		47.030.060.085
	80	2/6/48+2/M6/48	26		47.030.080.085
	130	2/6/48+2/M6/48	26		47.030.130.085
	170	2/6/48+2/M6/48	26		47.030.170.185
35	240	2/6/48+2/M6/48	26	HSK85WS 85	47.030.240.085
	180	2/6/54+2/M6/54	26		47.035.180.085
	40	2/6/54+2/M6/54	26		47.040.040.085
	60	2/6/54+2/M6/54	26		47.040.060.085
	80	2/6/54+2/M6/54	26		47.040.080.085
40	100	2/6/54+2/M6/54	26	HSK85WS 85	47.040.100.085
	130	2/6/54+2/M6/54	26		47.040.130.085
	170	2/6/54+2/M6/54	26		47.040.170.185
	180	2/6/54+2/M6/54	26		47.040.180.085
	210	2/6/54+2/M6/54	26		47.040.210.185
	240	2/6/54+2/M6/54	26		47.040.240.085
	50	2/6/64+2/M6/64	26		47.050.040.085
	60	2/6/64+2/M6/64	26		47.050.060.085
	80	2/6/64+2/M6/64	26		47.050.080.085
	100	2/6/64+2/M6/64	26		47.050.100.085
50	130	2/6/64+2/M6/64	26	HSK85WS 85	47.050.130.085
	150	2/6/64+2/M6/64	26		47.050.150.085
	170	2/6/64+2/M6/64	26		47.050.170.085
	180	2/6/64+2/M6/64	26		47.050.180.085
	240	2/6/64+2/M6/64	26		47.050.240.085
	270	2/6/64+2/M6/64	26		47.050.270.085

- Für Weinig „PowerMat“ Kehlmaschinen
- for Weinig "PowerMat" moulders

Fräsdorn mit zylindrischem Schaft
Cutter arbor with cylindrical shank

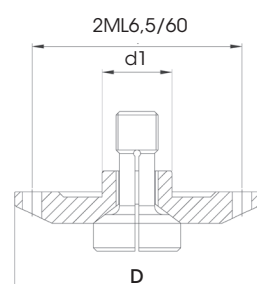
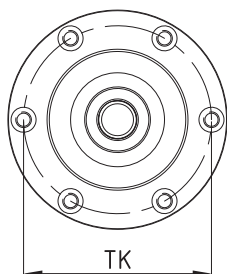
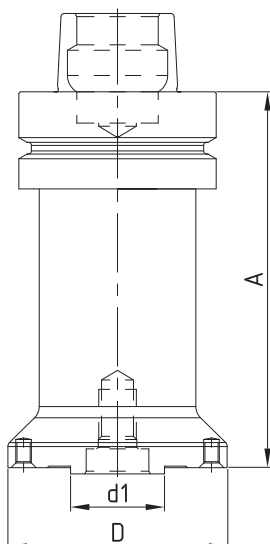
d1	L2	L1	S	Art. Nr.
20	40	98	20x50	495.020.040
	40	108	25x60	495.020.240
20	70	128	20x50	495.020.070
	70	138	25x60	495.020.170
30	40	98	20x50	495.030.040
	108	25x60		495.030.240

Fräsdorn für Sägen und Nuter
Cutter arbor for saws and groovers

d1	L2	L1	S	Art. Nr.
22	4	69	36	495.022.004
30	4	69	48	495.030.004

Zubehör
Accessories

	Dim.	Art. Nr.
Schraube - Screw	M6x16 (DIN 7991)	705.350
Sechskantschlüssel - Allen key	SW3	706.103



- Weitere Größen auf Anfrage
- further dimensions available on request

HSK-Sägeblattaufnahme Monoblock
HSK saw blade arbor monobloc

d1	D	A	TK/ML	S	Art. Nr.
30/20	70	45	6/M5/60	HSK63F	47.300
	70	110	6/M5/60	HSK63F	47.400
	70	150	6/M5/60	HSK63F	47.500
30/20	160	40	8/M5/90	HSK63F	① 47.106.010
	160	50	8/M5/90	HSK63F	① 47.106.014
30/20	70	45	6/M5/60	HSK63E	47.350
	70	110	6/M5/60	HSK63E	47.450
	70	150	6/M5/60	HSK63E	47.550

① Sägeblattaufnahme Homag Drive 5c/+

① saw blade arbor for Homag Drive 5c/+

- Lieferung erfolgt mit 6 Senkkopfschrauben für Sägenbefestigung bzw. "über Mitte Schnitt"
- delivery includes six countersunk bolts for saw mounting or centre cut

Gegenflansch für Sägenaufnahme
Counter-flange for saw arbor

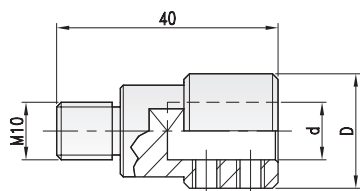
d1	D	TK/ML	Typ	Art. Nr.
20	70	2/6,5/60	Schraube DIN 912 SW=10	36.070.010
	70	2/6,5/60	EF-Schnellwechsel Typ 3/4 M12 SW=3	36.070.020
	106	8/5,5/90		34.106.020

- Art. 36.070.010 Gegenflansch mit Standard Schraube DIN 912
- Art. 36.070.020 Gegenflansch mit EF-Einschraubspanner für Sägenschnellwechsel
- Art. 36.070.010 counter-flange with standard screw DIN 912
- Art. 36.070.020 counter-flange with EF screw-in spanner for changing saw blades quickly



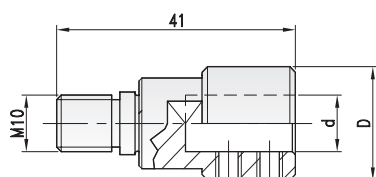
Zur Reinigung von Spindelnasen, Adaptern und Vorsatzflanschen
For cleaning spindle noses, adapters, and extension flanges

D	HSK	Art. Nr.
63	HSK63F	91.063.050
63	HSK63E	91.063.063
80	HSK80WS	91.080.063
80	HSK80E	91.080.080



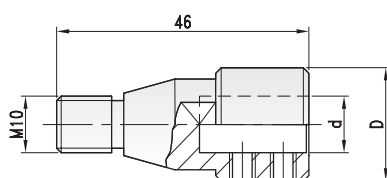
M10 - ohne Passsitz
M10 - without fitting

D	d	Art. Nr. RH	Art. Nr. LH
Ayen, Holzma, Mayer, Knoevenagel, Torwegge etc.			
20	10	478.020.010	478.020.110



M10 - mit Passsitz 11
M10 - with fit 11

D	d	Art. Nr. RH	Art. Nr. LH
Morbidelli, Weeke, Torwegge, Biesse, Masterwood, Vitap etc.			
20	10	478.020.210	478.020.310



M8 - mit Passsitz 9
M8 - with fit 9

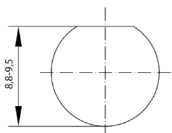
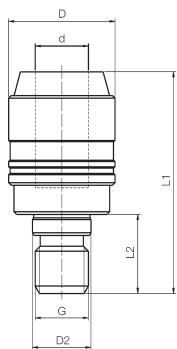
D	d	Art. Nr. RH	Art. Nr. LH
Biesse, SCM, CMS, Morbidelli etc.			
20	10	478.020.410	478.020.510

M10 - mit Kegel
M10 - with taper

D	d	Art. Nr. RH	Art. Nr. LH
Bilek, Vitap, Alberti, Balestrini, Schleicher, Busellato etc.			
20	10	478.020.610	478.020.710

Zubehör
Accessories

	Dim	Art. Nr.
Verstellschraube - <i>Adjusting screw</i>	M5x5	705.102
Sechskantschlüssel - <i>Allen key</i>	SW2,5	706.152



Spannfläche am Bohrer
clamping surface on drill


Für Schäfte mit Ø 10 mm und Spannfläche

For shanks with Ø 10 mm and clamping surface

PG
02

D1	d	L2	L1	D2	G Rotation	Art. Nr.
20	10	15	42	9	M8RH	611.010.008
20	10	15	42	9	M8LH	611.010.108
20	10	18	45	10	RH	611.010.018
20	10	18	45	10	LH	611.010.118
20	10	15	42	11	M10RH	611.010.010
20	10	15	42	11	M10LH	611.010.110

- Schnellwechselsystem für Dübelbohrer mit Schaft Ø 10 mm und Spannfläche
- Einfache Anwendung, indem man die Schiebehülse zurückschiebt und den Bohrer einsteckt. Die Schiebehülse spannt dabei automatisch, sobald die Schaftspannfläche auf den Spannkeil gedreht wird.
- Quick-change system for dowel drills with shank Ø 10 mm and clamping surface
- Easy to use by pushing back the sleeve and then inserting the tool. The sliding sleeve is automatically clamped due to a self-clamping mechanism, i.e., as soon as the shaft is turned onto the clamping wedge.

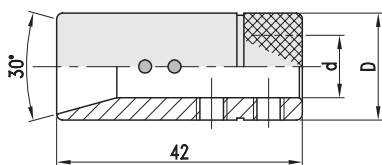
Ersatzteile/Zubehör

Spare parts/ Accessories

PG
01

	Art. Nr.
Bohrfutter-Montageschlüssel d=10 - Chuck assembly key	611.107.010
Bohrfutter-Verschlusskappe d=10 - Chuck closing cap	611.115.010
Einstellschraube M5x10 - Adjusting screw	705.103

PG
02


Schnellwechseladapter
Quick-change adapter

D	d	Art. Nr.
Vitap		
18	10	474.018.010

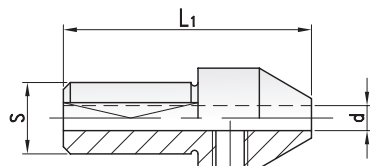
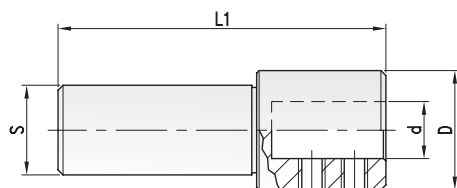
Zubehör

Accessories

	Dim.	Art. Nr.
Verstellschraube - Adjusting screw	M5x4	705.102.04
Sechskantschlüssel - Allen key	SW2,5	706.152

495

Adapter für verschiedene Schaftdurchmesser Adapter for Various Shank Diameters

**PG
02**


Reduzierungen Reducers

D	d	S	Art. Nr.
20	6	18	495.020.006
20	8	18	495.020.008
22	10	18	495.022.010
22	12	18	495.022.012

Reduzierungen Reducers

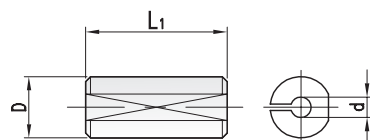
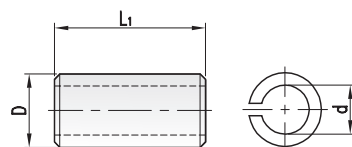
d	L1	S	Art. Nr.
2,0	38	10	495.002.038
2,5	38	10	495.003.038
3,0	38	10	495.003.138
3,5	38	10	495.004.038
4,0	38	10	495.004.138
4,5	38	10	495.005.038
5,0	38	10	495.005.138

Zubehör Accessories

	Dim.	Art. Nr.
Verstellschraube - Adjusting screw	M5x5	705.102
Sechskantschlüssel - Allen key	SW2,5	706.152

494

Reduzierbuchsen für zylindrische Schäfte Reducing Bushings for Cylindrical Shanks

**PG
02**


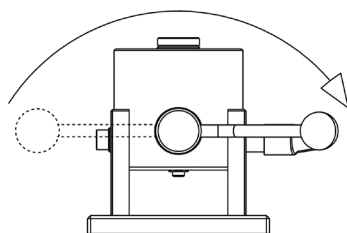
Reduzierungen Reducers

d	L1	D	Art. Nr.
6	25	8	494.006.025
8	25	10	494.008.025
6	25	12	494.006.125
8	25		494.008.125
10	25		494.010.025

Reduzierungen Reducers

d	L1	D	Art. Nr.
2,0	23	10	494.002.023
2,5	23	10	494.003.023
3,0	23	10	494.003.123
3,5	23	10	494.004.023
4,0	23	10	494.004.123
4,5	23	10	494.005.023
5,0	23	10	494.005.123
6,0	23	10	494.006.023
7,0	23	10	494.007.023
8,0	23	10	493.008.023




HSK-Montagevorrichtung
HSK mounting device

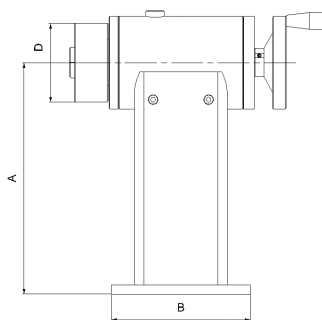
HSK	L	H	D	Art. Nr.
HSK32	100	87,5	40	38.032.035
HSK40	100	87,5	40	38.040.035
HSK63F	100	110	63	38.063.050
HSK63	100	110	63	38.063.063
HSK80WS (Weinig - PowerLock)	100	110	85	38.085.063
HSK80	200	140	100	38.080.080
HSK100	200	200	125	38.100.100

- Praktische, schwenkbare Montagevorrichtung
- Der einfach bedienbare Drehgriff ermöglicht dabei ein werkzeugloses Einspannen bzw. Lösen der HSK-Werkzeuge
- *handy, swivelling mounting device*
- *easy-to-use turning handle facilitates tool-free clamping or releasing of HSK tool*


Montagevorrichtung für BT/ISO/SK
Mounting device for BT/ISO/SK

BT/ISO/SK	D	Art. Nr.
ISO30, BT30	46	438.030.046
SK30, HSK50, C5	50	438.030.050
BT35	53	438.035.053
SK40/HSK63, BT40, C6	63	438.040.063
HSK80WS	85	438.080.085
HSK100, BT50	102	438.050.100
SK50	97,5	438.050.098

- Selbstklemmende Montagevorrichtung mit Rollen zum sicheren Klemmen von Werkzeugaufnahmen
- Passend für SK, ISO, HSK, BT und Capto-Aufnahmen
- *self-clamping mounting device with rollers for clamping tool arbors safely*
- *suitable for SK, ISO, HSK, BT, and Capto arbors*


Montageständer für HSK85WS-Werkzeuge
Workstand for HSK85WS tools

HSK85WS	A	D	B	Art. Nr.
Messspindel - <i>Measuring spindle</i>	250	85	150	835.250.015

- Montageständer für HSK85WS-Werkzeuge
- Gelagerte HSK85WS-Messspindel mit Spannsystem wird z.B. zum Vermessen des Rundlaufs (über eine zusätzliche Messvorrichtung) oder zur Montage bzw. Demontage von Messern oder Fräsern verwendet.
- *workstand for HSK85WS tools*
- *HSK85WS bearing measurement spindle with clamping system can be used, e.g., to measure concentricity, using an additional measuring device or to assemble or disassemble knives or cutters*

01



02



03



04



05



06



07



08



09



10



11



