

Collets on pressure

Special collets

Pick up collets

Bar feed collets

Inside clamping sleeves

Bearing inserts

Turbo-bar feed collets

Turbo bearing inserts

Feed collets

Draw in collets

VKK

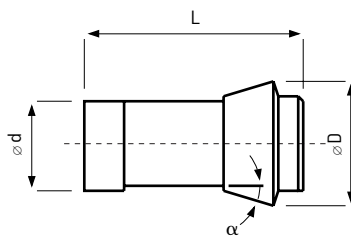






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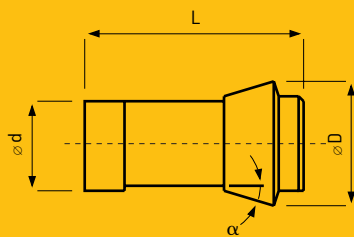
## Collets on pressure series 100

Part no.:	ø d [mm]	ø D [mm]	Length L [mm]	Cone α [Degree]	Inside shape	Dimension range from to		Pitch	Price [€]
101 E F 8-577	8	12	42	16		0,5	1,0	0,1	--
						1,5	2,5	0,5	--
						3,0	6,0	0,5	--
102 E	8	13,7	30	21		1,5	2,5	0,5	--
						3,0	6,0	0,5	--
109 E F10 - 86	10	15,5	47,5	20		1,0			--
						1,5	2,5	0,5	--
						3,0	7,0	0,5	--
						3,1	6,9	0,1	--
						7,1	7,9	0,1	--
						8,0			--
						4,0	6,0	1,0	--
						4,0			--
						4,5	5,5	0,5	--
112 E Gauthier 1h	11	18,7	41	22		1,0	2,9	0,5	--
						1,5	2,5	0,5	--
						3,0	8,0	0,5	--
						8,1	8,5	0,1	--
									--
116 E F 13-357	13	19	64	16		1,0	2,5	0,5	--
						3,0	10,0	0,5	--
						4,0	8,0	0,5	--





















» Table to be continued



ALL COLLETS MENTIONED IN THIS CATALOGUE CAN ALSO BE DELIVERED WITH A LONG NOSE



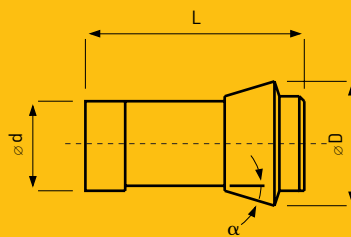
## Collets on pressure series 100

Part no.:	ø d [mm]	ø D [mm]	Length L [mm]	Cone α [Grad]	Inside shape	Dimension range from to		Pitch	Price [€]
118 E	14	19,5	46	15		1,0	2,9	0,1	--
						1,5	2,5	0,5	--
						3,0	10,5	0,5	--
					 	--			
120 E F 15-580	15	21	64	16		0,8	0,9	0,1	--
						1,0	1,9	0,1	--
						2,0	2,5	0,5	--
						2,1	2,9	0,1	--
						3,0	12,0	0,5	--
						12,5	13,0	0,5	--
					 	2,0	3,5	0,5	--
						4,0	6,0	0,5	--
						7,0	9,0	1,0	--
							10,0		
120 E Special	fitted slots and long nose on request								
1212 E F 16-1076	16	21	64	16		1,0	2,5	0,5	--
						3,0	13,0	0,5	--
					 	3,0	10,0	1,0	--
136 E F 20-201	20	26	54	15		1,0 & 1,5			--
						2,0	2,5	0,5	--
						3,0	16,0	0,5	--
					 	3,0	3,5	0,5	--
						4,5	7,5	1,0	--
						4,0	14,0	1,0	--
						4,0	10,0	1,0	--
136 E Special	fitted slots and long nose on request								
138E F 20-87	20	28	67	16		1,0	1,5	0,5	--
						2,0	2,5	0,5	--
						3,0	16,0	0,5	--
					 	4,0	6,0	1,0	--
							7,0	14,0	1,0
						7,0	11,0	1,0	--
136 E Special	fitted slots and long nose on request								

» Table to be continued



ALL COLLETS ALSO AVAILABLE IN SMOOTH, L + Q AND SUPERGRIP



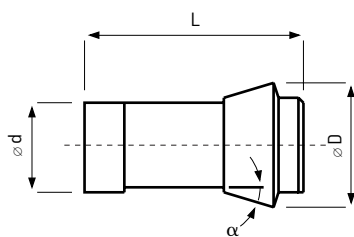
## Collets on pressure series 100

Part no.:	ø d [mm]	ø D [mm]	Length L [mm]	Cone α [Grad]	Inside shape	Dimension range from to		Pitch	Price [€]
140 E F 22-71 A 15	22	30	55	15		1,0			--
						1,5	2,5	0,5	--
						3,0	16,0	0,5	--
						16,5	17,5	0,5	--
						18,0			--
						4,0	6,0	1,0	--
						7,0	15,0	1,0	--
						4,0	6,0	1,0	--
145 E F 25-64	25	35	77	16		1,0			--
						1,5	2,5	0,5	--
						3,0	20,0	0,5	--
						4,0	6,0	1,0	--
						7,0	17,0	1,0	--
						7,0	14,0	1,0	--
						1,5	2,5	0,5	--
						3,0	24,0	0,5	--
148 E F 28-93	28	38	70	15		4,0	6,0	1,0	--
						4,0	16,0	1,0	--
						17,0 & 19,0			--
						18,0 & 20,0			--
						3,0	25,0	0,5	--
						5,0	6,0	0,5	--
157 E F 30-63	30	42	80	16		7,0 - 17,0 & 19,0		1,0	--
						18,0			--
						20,0			--
									--
EF 30 1446 E 76-101	30	38	65	15		3,0	25,0	0,5	--
						5,0 - 17,0 & 19,0		1,0	--














» Table to be continued



ALL COLLETS ALSO AVAILABLE WITH INSERT GUIDE



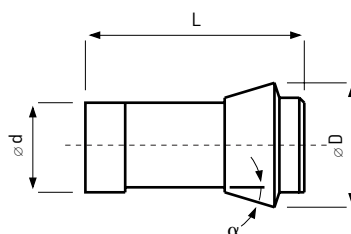
## Collets on pressure series 100

Part no.:	ø d [mm]	ø D [mm]	Length L [mm]	Cone α [Grad]	Inside shape	Dimension range from to		Pitch	Price [€]	
161 E F 32-221 A 25	32	45	75	15		1,0	1,5	0,5	--	
						2,0	2,5	0,5	--	
						3,0	26,0	0,5	--	
						26,5 & 27,0			--	
						28,0			--	
						4,0	6,0	0,5	--	
						7,0	17,0	1,0	--	
						19,0 & 22,0			--	
						18,0 & 20,0 & 21,0			--	
						5,0	6,0	1,0	--	
7,0 - 16,0 & 18,0			1,0	--						
17,0 & 19,0			--							
163 E F 35-94 A 30	35	48	80	15		1,0	1,5	0,5	--	
						2,0	2,5	0,5	--	
						3,0	30,0	0,5	--	
						4,0	6,0	1,0	--	
						7,0	17,0	1,0	--	
						18,0 & 20,0 & 21,0			--	
						23,0 & 25,0 & 26,0			--	
						19 & 22 & 24 & 27			--	
						5,0	6,0	1,0	--	
						7,0 - 16,0 & 18,0			1,0	--
						17,0 & 19,0			--	
						20,0 & 22,0			--	
F 37 1536 E	37	47	92	16		3,0	32,0	0,5	--	
						4,0	27,0	1,0	--	
						--				
164 E F 38-72	38,08	49	108	15		2,0 & 2,5			--	
						3,0	32,0	1,0	--	
						32,5 & 33,0			--	
						4,0	6,0	1,0	--	
						7,0	27,0	1,0	--	
						7,0	22,0	1,0	--	

» Table to be continued



TRY OUR COLLETS WITH HM-COATING OR OTHER SPECIAL COATINGS!



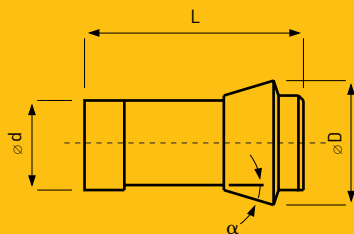
## Collets on pressure series 100

Part no.:	ø d [mm]	ø D [mm]	Length L [mm]	Cone α [Grad]	Inside shape	Dimension range from to	Pitch	Price [€]
165 E F 34 1497 E	34	44	80	16	● ● ●			--
171 E F 42 A 36 76-99	42	55	94	15	●	3,0 36,0	0,5	--
						37,0		--
					●	4,0 6,0	1,0	--
						7,0 17,0	1,0	--
						18 & 20 & 21 & 23		--
						25 & 26 & 28 & 29 & 31		--
						19 & 22 & 24 & 27		--
						30,0		--
					■	4,0 6,0	1,0	--
						7,0 14,0	1,0	--
						16,0 & 18,0		--
						15 & 17 & 19 & 21		--
						23,0 & 24,0 & 26,0		--
						20,0 & 22,0 & 25,0		--
173 E F 48 A 42 76-81	48	60	94	15	●	1,0 2,5	0,5	--
						3,0 42,0	0,5	--
						43,0		--
					●	4,0 5,5	0,5	--
						6,0		--
						7,0 17,0	1,0	--
						19 & 22 & 24 & 27		--
						18 & 20 & 21 & 23		--
						25 & 26 & 28 & 29 & 31		--
						33 & 34 & 35 & 37 & 38		--
						30,0 & 32,0 & 36,0		--
					■	4,0 & 5,0		--
						6,0		--
						7,0 14,0	1,0	--
						16,0 & 18,0		--
						15 & 17 & 19 & 21		--
						23,0 & 24,0 & 26,0		--
						20 & 22 & 25 & 28		--
						27,0 & 29,0 & 30,0		--

» Table to be continued



ALL COLLETS AVAILABLE FULLY OR PARTIALLY SEALED



## Collets on pressure series 100

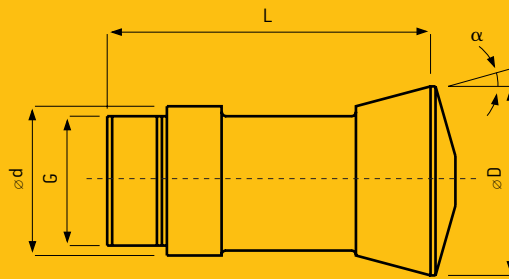
Part no.:	ø d [mm]	ø D [mm]	Length L [mm]	Cone α [Grad]	Inside shape	Dimension range from to		Pitch	Price [€]
177 E F 58	58	70	94	15		8,0	52,0	1,0	--
185 E F 66 A 60 76-359	66	84	110	15		3,0			--
						4,0	60,0	1,0	--
					short	61,0	65,0	1,0	--
						8,0	17,0	1,0	--
						19 & 22 & 24 & 27			--
						7 & 18 & 20 & 21 & 23			--
						25 & 26 & 28 & 29 & 31			--
						38,0 & 41,0			--
						30,0 & 32,0 & 36,0			--
						33,0 & 34,0 & 35,0			--
						37,0 & 39,0 & 40,0			--
						42 & 43 & 44 & 45 & 47			--
						48 & 49 & 51 & 52 & 55			--
						46,0 & 50,0			--
						7,0	14,0	1,0	--
						18,0			--
						15 & 16 & 17 & 19			--
						21 & 23 & 24 & 26 & 29			--
						32,0 & 36,0 & 40,0			--
						20 & 22 & 25 & 28			--
						27 & 29 & 30 & 31 & 33 & 34 & 41			--
						30,0 & 35,0-39,0		1,0	--
190 E	88	106	115	15		60,0	80,0	1,0	--
193 E	90	107	130	15					

« Table end



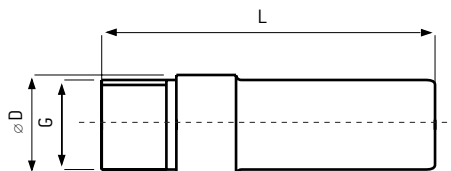
EMERGENCY COLLETS CAN BE DELIVERED ON REQUEST FOR ALL COLLETS SERIES 100





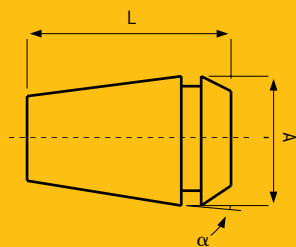
## Collets series 9000

Part no.:	ø d [mm]	ø D [mm]	Length L [mm]	Cone α [Grad]	Thread G	Pitch	Price [€]
9007 E/ SE 16	32	41,5	84	15	M 30 x 1 L	1,0	--
9049 E/ SE 25	46	60,3	120	15	M 40 x 1,5 L	1,0	--
9070 E/ SF 32	53	69,3	136	15	M 47 x 1,5 L	1,0	--
9112 E/ SF 42	62,9	78,3	157	15	M 56 x 1,5 L	1,0	--



## Feed collets series 9000

Part no.:	ø D [mm]	Length L [mm]	Thread G	Pitch	Price [€]
9225 E/ SE 16	25	88	M 23 x 1	1,0	--
9282 E/ SE 25	34,7	118	M 30 x 1,5	1,0	--
9319 E/ SF 32	41,8	130	M 38 x 1,5	1,0	--
9372 E/ SF 42	51	154	M 48 x 1,5	1,0	--

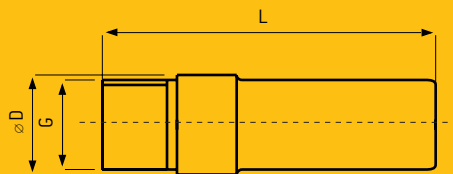


## ER-collets series 400

Part no.:	ø D [mm]	Length L [mm]	Cone α [Grad]	Dimension range from to		Pitch	Price [€]
ER 8 4004 E	8	13,8	8	1,0	2,5	0,5	--
				3,0	5,0	0,5	--
ER 11 4008 E	11	17	8	1,0	2,5	0,5	--
				3,0	7,0	0,5	--
ER 16 426 E	17	28	8	1,0	2,0	1,0	--
				1,5	2,5	1,0	--
				3,0	10,0	1,0	--
				3,5	9,5	1,0	--
ER 20 428 E	21	32	8	1,0	2,0	1,0	--
				1,5	2,5	1,0	--
				3,0	13,0	1,0	--
				3,5	12,5	1,0	--
ER 25 430 E	26	34	8	1,0	2,0	1,0	--
				1,5	2,5	1,0	--
				3,0	16,0	1,0	--
				3,5	15,5	1,0	--
ER 32 470 E	33	40	8	2,0			--
				2,5			--
				3,0	20,0	1,0	--
				3,5	19,5	1,0	--
ER 40 472 E	41	46	8	3,0			--
				3,5			--
				4,0	26,0	1,0	--
				27,0	30,0	1,0	--
				4,5	25,5	1,0	--
ER 50 477 E	52	60	8	6 & 8 & 10 & 25			--
				12,0	34,0	2,0	--



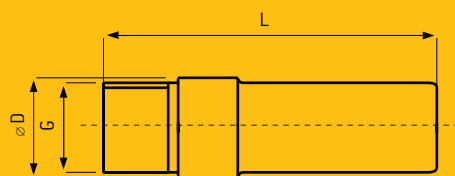
ER COLLETS ALSO AVAILABLE AS A FULL SET ON A WODDEN LIDDER  
ATTACHEMENTS FOR ER-COLLETS CAN BE DELIVERED ON REQUEST








## Feed collets series 200

Part no.:	ø D [mm]	Length L [mm]	Thread G	Inside shape	Dimension range from to		Pitch	Price [€]
207 E	18	70	M 16 x 1 L	○	1,5	2,5	0,5	--
					3,0	12,0	0,5	--
				⬡	4,0	6,0	0,5	--
					7,0	11,0	1,0	--
				□	5,0	6,0	1,0	--
					7,0	9,0	1,0	--
217 E	21	70	M 20 x 1 L	○ ⬡ □				--
220 E	24	85	M 22 x 1 L	○	3,0	18,0	0,5	--
				⬡	4,0	6,0	0,5	--
					7,0	16,0	1,0	--
				□	5,0 & 6,0		1,0	--
					7,0	13,0	1,0	--
236 E	30	95	M 28 x 1 L	○ ⬡ □				--
237 E	31	90	M 29 x 1 L	○	3,0	25,0	1,0	--
				⬡	4,0	6,0	0,5	--
					7,0	17,0	1,0	--
					18,0 & 20,0 & 21,0			--
					19,0 & 22,0			--
				□	4,5 & 5,5			--
					5,0	6,0	1,0	--
					7,0	14,0	1,0	--
					15,0 & 17,0			--
					16,0 & 18,0			--

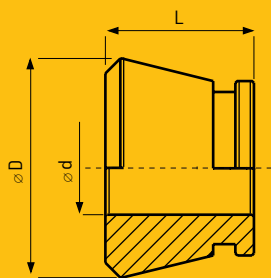
» Table to be continued



## Feed collets series 200

Part no.:	$\varnothing D$ [mm]	Length L [mm]	Thread G	Inside shape	Dimension range		Pitch	Price [€]
					from	to		
254 E	42	116	M 40 x 1 L		4,0	36,0	0,5	--
					10,0	17,0	1,0	--
					18,0 & 20,0 & 21,0			--
					23,0 & 25,0 & 26,0			--
					28,0 & 29,0 & 31,0			--
					19 & 22 & 24 & 27			--
					30			--
					10,0	14,0	1,0	--
					16,0 & 18,0			--
					15,0 & 17,0 & 19,0			--
					20,0 & 22,0 & 25,0			--
					21,0 & 23,0 & 24,0			--
273 E	60	140	M 58 x 1 L		10,0	52,0	1,0	--
					10,0	23,0	1,0	--
					24,0 & 27,0			--
					25 & 26 & 28 & 29			--
					30,0 & 32,0 & 36,0			--
					38,0 & 41,0			--
					37,0	45,0	1,0	--

« Table end



## Clamping head

Part no.:	Version	Clamping Range	Length L [mm]	Price [€]
SK32 BZI	Inner Diameter Pitch 1 mm	smooth	4-32 mm	--
		with radial grooves	8-10 mm	--
		with radial & axial grooves	11-32 mm	--
SK 42 BZI	Inner Diameter Pitch 1 mm	smooth	4 - 42 mm	--
		with radial grooves	8 - 10 mm	--
		with radial & axial grooves	11 - 42 mm	--
SK 52 BZI	Inner Diameter Pitch 1 mm	smooth	5-52 mm	--
		with radial grooves	8-10 mm	--
		with radial & axial grooves	11-52 mm	--
SK 65 BZI	Inner Diameter Pitch 1 mm	smooth	5- 65 mm	--
		with radial grooves	8 - 10 mm	--
		with radial & axial grooves	11 - 65 mm	--
SK 80 BZI	Inner Diameter Pitch 1 mm	smooth	5-80 mm	--
		with radial grooves	8-10 mm	--
		with radial & axial grooves	11-80 mm	--
SK 100 BZG/BZ	Inner Diameter Pitch 1 mm	smooth	42-100 mm	--
		with radial & axial grooves	42-102 mm	--

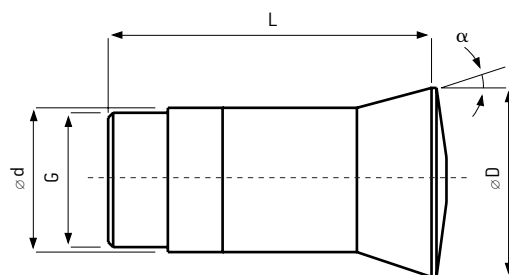


ALSO AVAILABLE IN HEXAGON AND SQUARE



ALL CLAMPING HEADS FOR MULTISPINDLE ON REQUEST

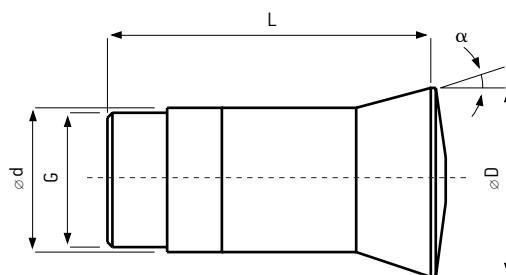




## Draw in collets series 300

Part no.:	ø d [mm]	ø D [mm]	Length L [mm]	Cone α [Grad]	Thread G	Inside shape	Dimension range from to		Pitch	Price [€]
671/652	5	7	22,5	15	M 3,5 x 0,6	○				--
324 E	15	21,5	56	20	M 13 x 1	○	1,0			--
							1,5	2,5	0,5	--
							3,0	13,0	0,5	--
358 E	23	32	86	20	M 21 x 1	○	1,5	2,5	0,5	--
							3,0	20,0	0,5	--
							20,5 & 21,5			--
						⬡ □	3,5			--
							4,0	6,0	1,0	--
							4,5	6,5	1,0	--
							7,0	14,0	1,0	--
						□	16,0 & 18,0			--
363 E	25	33,5	89	16	M 23 x 1	○	1,5	2,5	0,5	--
							3,0	22,0	0,5	--
						⬡ □				--
366 E	28	36	106,5	20	Tr.27 x 1/20"	○	1,5	2,5	0,5	--
							3,0	25,0	0,5	--
						⬡ □				--

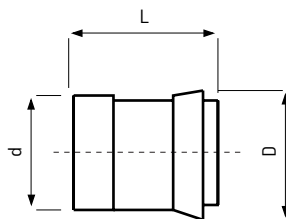
» Table to be continued



## Draw in collets series 300

Part no.:	ø d [mm]	ø D [mm]	Length L [mm]	Cone α [Grad]	Thread G	Inside shape	Dimension range from to	Pitch	Price [€]
385 E	31,75	37,5	83	20	Aussen 31,45 x 1/20"  Innen 26,44 x 1,058	○	1,5 2,5	0,5	--
							3,0 26,0	0,5	--
						□	4,0		--
						⬡ □	5,0 6,0	1,0	--
							7,0 16,0	1,0	--
						⬡	5,5		--
							17,0 & 19,0 & 22,0		--
							18 & 20 & 21 & 23		--
							25,0 & 26,0		--
						□	17,0 & 19,0		--
							18,0		--
							20,0 & 22,0		--
386 E	32	45	115	20	Tr.32 x 1,5	○	1,0		--
							1,5 2,5	0,5	--
							3,0 29,0	0,5	--
						⬡ □			--

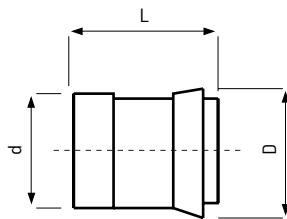
« Table end



## Pick up collets

Part no.:	ø d [mm]	ø D [mm]	Length L [mm]	Machine type	Inside shape	Dimension range from to		Pitch	Price [€]
75- 81.1410	Thread M 10 x 1	14	23	Gauthier		1,0			--
						1,5	2,5	0,5	--
						3,0	7,0	0,5	--
75- 14.0498	Thread M 12 x 1	18	23	Gauthier		4,0	7,0	1,0	--
						8,0	10,0	1,0	--
M 105	12	14,5	21	Strohm		2,0	2,5	0,5	--
						3,0	8,5	0,5	--
M 105 Long nose	12	14,5	variable	Strohm		3,0	8,0	1,0	--
M 125	15	17	17	Strohm		2,0	2,5	0,5	--
						3,0	12,0	0,5	--
M 125 Long nose	15	17	variable	Strohm		8,0	12,0	1,0	--
694285	16	19	22	Traub		3,0	10,0	1,0	--
M 205	24	28	36	Strohm		2,5			--
						3,0	20,0	0,5	--
					 				

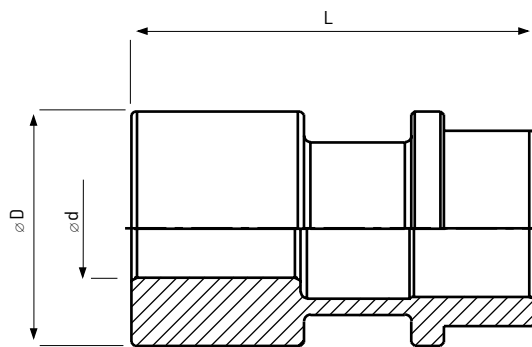
» Table to be continued



## Pick up collets

Part no.:	ø d [mm]	ø D [mm]	Length L [mm]	Machine type	Inside shape	Dimension range		Pitch	Price [€]
						from	to		
612	35	40	46	TNS 28	○	1,5	2,5	0,5	--
					○	3,0	30,0	0,5	--
					⬡				--
612 M Increased wall thickness	35	40	46	Manurhin K' MX	○	1,5	2,5	0,5	--
					○	3,0	30,0	0,5	--
					⬡				--
719976	45	58	56	TNS 60	○				--
721	46	54,75	65	TNS 30/42	○	5,0	42,0	1,0	--
					⬡				--
952	61,5	71,5	65	TNM 65	○	5,0	19,0	1,0	--
					○	20,0	56,0	1,0	--
					○	57,0	59,0	1,0	--
725070	71	85	79,5	TNS 65	○	8,0	65,0	1,0	--

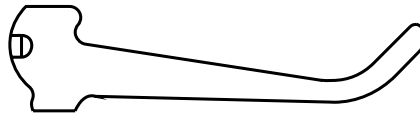
« Table end



## Synchronous collets for INDEX

Part no.:	machine/type	ø D [mm]	Length L [mm]	Dimension range		Pitch	Price [€]
				from	to		
1444 E	GS 30	36	62	4,0	15,0	1,0	--
				16,0	30,0	1,0	--
1462 E	GS 42, GB 42, GB 65, GSC 42	48	62	4,0	42,0	1,0	--
1465 E	GS/GSC 65, GS 42 S	62	94	6,0	56,0	1,0	--





## Toggle for TRAUB-Turningmachines

Machine type	Original number	Length L [mm]	Thickness [mm]	Price [€]
A 15	630.030	70,5	13,8	--
A 15-20-25	632.192	68,9	10	--
A 20-25-TC 15	616.112	68,9	12	--
A 26-36	632.202	62,9	14	--
A 42-60	630.950	68,5	14,1	--
T 30-42-60	632.521	84	15,9	--
TB 42-60-TK-TF	614.194	84,6	17,9	--
TD 16-26-36	691.325	74	12	--
TG	675.609	74	12	--
AH 36	629.045	73,2	10	--
TNL 16	738.508	61,1	9,9	--
TNL 16	773.075	61,1	9,9	--

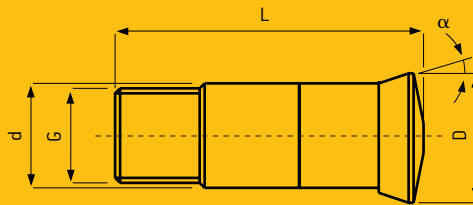
## Toggle for STROHM-Turningmachines

For machine	Original number	Length L [mm]	Thickness [mm]	Price [€]
M 45	680.297	44,2	5,9	--
M 75-105-125-AS	661.434	50,2	6,9	--
M 125 NAR	661.435	50,5	7,3	--
M 205-255 neu	661.557	92,0	13,8	--
M 205-255 alt	680.733	90,6	30,5	--
SN 25		95,7	13,9	--

## Toggle for INDEX-Turningmachines

For machine	Original number	Length L [mm]	Thickness [mm]	Price [€]
DG/ON/OR	AA 1371	66,1	11,8	--
12-ER 16	A 33280	74,2	11,5	--
18-25-C 19-ER 25-KR 30	A 43280	74,2	13,5	--
C 29	C 29591	74,2	15,3	--
24-B 30	A 53283	100,0	15,4	--
36-52-B 42-B 60	A 73281	100,1	19,9	--

! TOGGLES ALSO AVAILABLE FOR FURTHER TURNING MACHINES



## Adjustable guide bushes with hard metal insert

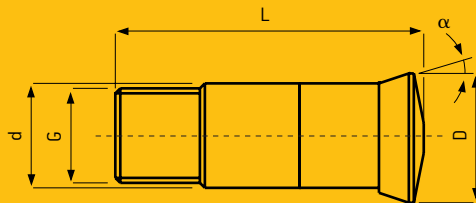
Part no.:	ø d [mm]	ø D [mm]	Thread G	Length L [mm]	Cone α [Grad]	Dimension range from to		Pitch	Price group
F 351	9	13	M 8 x 0,6	50	30	0,7	5,5	0,1	1
I 351	9	12,5	M 8 x 0,75	44	16	0,7	6,0	0,1	1
F 352	11	15	M 10 x 0,6	50	30	1,0	7,5	0,1	1
I 352	11	14,5	M 10 x 0,8	53	16	1,0	7,0	0,1	1
F 3001	11	14,5	M 10 x 0,75	53	16	1,0	7,0	0,1	1
F 103	12	16	M 12 x 1	50	30	1,0	7,5	0,1	1
T 340	13	16	M 12,5 x 0,75	41,5	15	1,0	8,0	0,5	3
T 330	14	18	M 13 x 0,75	63	16	1,0	9,0	0,5	3
I 353	16	19,5	M 14 x 1	59	16	1,0	10,0	0,1	1
F 850	16	20	M 16 x 1	52	30	1,0	12,0	0,1	1
F 853	18	22	M 16 x 1	61	30	1,0	13,0	0,1	1
F 104	20	24	M 20 x 1	55	30	2,0	13,0	0,1	1
T 221	21	24	M 18 x 1	57,5	12	3,0	15,0	0,5	2
I 354	22	29	M 19 x 1	68	16	2,0	16,0	0,5	2
F 391	22	29	M 22 x 1	68	16	3,0	18,0	0,5	2
F 605	24	29,5	M 24 x 1	61	30	2,0	17,0	0,5	2
T 223	28	34	M 25 x 1	82	16	3,0	21,0	0,5	2
I 357	28	38	M 25 x 1	81	30	3,0	21,0	0,5	2
F 355	32	39	M 32 x 1	71	30	3,0	22,0	0,5	2
T 227	34	41	M 34 x 1	87,5	10	3,0	25,0	0,5	2
F 854	40	48	M 36 x 1	71	30	3,0	26,0	1,0	4
F 105	40	48	M 40 x 1	71	30	3,0	26,0	1,0	4
T 229	42	49	M 40 x 1	82	16	3,0	32,0	1,0	4



ALSO AVAILABLE IN HEXAGON AND SQUARE



ALL GUIDE BUSHES AVAILABLE WITH ENLARGED GUIDE AREA AND OVERSIZE



## Traub TNL 12 / 7 – TNL 26

### Adjustable guide bushes with hard metal insert, programable

Part no.:	Traub Drawing No.	ø d [mm]	ø D [mm]	Thread G	Length L [mm]	Cone α [Grad]	Dimension range from to		Pitch
FTS 221 TNL 12 / 7	989 468	21	24	M 18 x 1	65,5	12°	1,5	13,0	1,0
FTS 3402 TNL 12 / 7	989 517	27	30	M 24 x 1	67,5	12°	3,0	16,0	1,0
T 227 TNL 26	986 761	34	41	M 34 x 1	87,5	10°	3,0	25,0	1,0
					Special size		26,0	27,5	



ALSO AVAILABLE IN HEXAGON AND SQUARE



ALL GUIDE BUSHES AVAILABLE WITH ENLARGED GUIDE AREA AND OVERSIZE

## Price list for adjustable guide bushes with hard metal insert

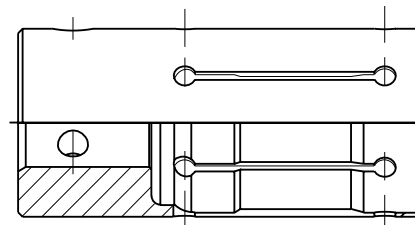
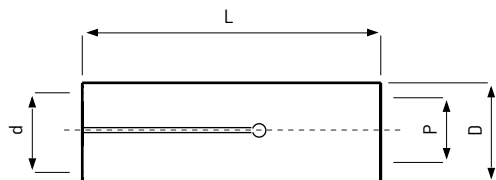
Price group 1 Pitch 0,1 from to		Price [€]
0,8	1,0	--
1,1	4,0	--
4,1	5,0	--
5,1	6,0	--
6,1	7,0	--
7,1	8,0	--
8,1	9,0	--
9,1	10,0	--
10,1	11,0	--
11,1	12,0	--
12,1	13,0	--

Price group 3 Pitch 0,5 from to		Price [€]
1,0	3,0	--
3,5	4,0	--
4,5	5,0	--
5,5	6,0	--
6,5	7,0	--
7,5	8,0	--
8,5	9,0	--

Price group 2 Pitch 0,5 from to		Price [€]
1,0		--
1,5	2,0	--
2,5	3,0	--
3,5	4,0	--
4,5	5,0	--
5,5	6,0	--
6,5	7,0	--
7,5	8,0	--
8,5	9,0	--
9,5	10,0	--
10,5	11,0	--
11,5	12,0	--
12,5	13,0	--
13,5	14,0	--
14,5	15,0	--
15,5	16,0	--
16,5	17,0	--
17,5	18,0	--
18,5	19,0	--
19,5	20,0	--
20,5	21,0	--
21,5	22,0	--
22,5	23,0	--
23,5	24,0	--
24,5	25,0	--
25,5	26,0	--

Price group 4 Pitch 1,0 from to		Price [€]
3,0		--
4,0		--
5,0		--
6,0	10,0	--
11,0	12,0	--
13,0		--
14,0		--
15,0		--
16,0		--
17,0		--
18,0		--
19,0		--
20,0		--
21,0		--
22,0		--
23,0		--
24,0		--
25,0		--
26,0		--
27,0		--
28,0		--
29,0		--
30,0		--
31,0		--
32,0		--

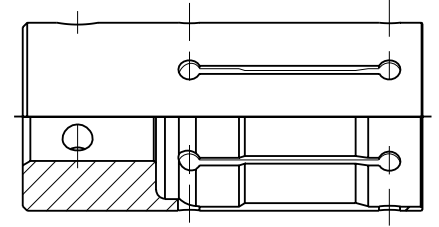
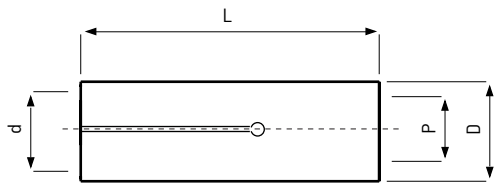
!	SURCHARGES FOR HEXAGON AND SQUARE	3,0 - 11,0	--
		12,0 - 22,0	--
		23,0 - 27,0	--



## Bar feed collets for bar loaders

Part no.:	Channel [mm]	ø D [mm]	ø P [mm]	Length L [mm]	Dimension range from to		Pitch	Price [€]
200 E	5 D	5 / 5,5	M 4	37	1,0	1,4	0,1	--
					1,5	4,5	0,1	--
208 E	7 D	7 / 7,5	M 5	37	1,0	1,4	0,1	--
					1,5	5,9	0,1	--
					6,0 & 6,1 & 6,2			--
Bechler	7 D	7	M 4	30				--
210 E	10 D	10	7 H 7	40	1,0 & 1,5			--
					2,0	3,5	0,5	--
					4,0	8,5	0,5	--
					9,0	10,0	0,5	--
Bechler	10 D	10	M 5	26	2,0	8,5	0,5	--
212 E	12 D	12	8 H 7	40	3,0	3,5	0,5	--
					4,0	9,5	0,5	--
					10,0	11,0	0,5	--
213 E	13 D	13	8 H 7	40	2,0	4,0	0,5	--
					4,5	11,0	0,5	--
203 E	15 D	15	11 H 7	40	3,0 & 3,5			--
					4,0	13,0	0,5	--
					13,5	15,0	0,5	--
218 E	18 D	18	11 H 7	40	3,0	4,5	0,5	--
					5,0	16,0	0,5	--
225 E	20 D	20	14 H 7	65	4,0	5,5	0,5	--
					6,0	18,0	0,5	--
					18,5	20,0	0,5	--
SHK 22	22 D	22	14 H 7	65				--
222 E	25 D	25	20 H 7	65	4,0	5,5	0,5	--
					6,0	23,0	0,5	--
					23,5	24,0	0,5	--
227 E	28 D	28	20 H 7	65	3,0	7,5	0,5	--
					8,0	25,0	1,0	--
					25,5	26,5	1,0	--



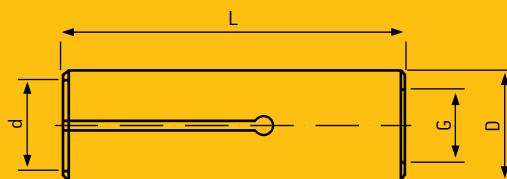


## Bar feed collets for bar loaders

Part no.:	Channel [mm]	ø D [mm]	ø P [mm]	Length L [mm]	Dimension range		Pitch	Price [€]
					from	to		
SHK 30	30 D	30	20 H 7	65	6,0	9,5	0,5	--
					10,0	25,5	0,5	--
					26,0	28,0	0,5	--
SHK 32	32 D	32	20 H 7	65	6,0	9,5	0,5	--
					10,0	28,5	0,5	--
					29,0	30,0	0,5	--
SHK 34	34 D	34	20 H7	65	--			
SHK 36	36 D	36	20 H 7	65	6,0	9,5	0,5	--
					10,0	30,0	0,5	--
					30,5	33,0	0,5	--
Surcharges for bar feed collets hexagon and square from D 10 – D 25					4,0	10,0	1,0	--
					4,5	10,5	1,0	--
					11,0	24,0	1,0	--
					11,5	21,5	1,0	--

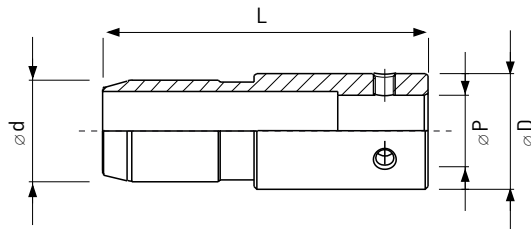
! ALSO AVAILABLE IN HEXAGON AND SQUARE

! ALL THIN BAR FEED COLLETS CAN BE DELIVERED IN A CLOSED SLOT VERSION



## Bar feed collets for LNS / Tryton

Part no.:	ø D [mm]	Thread G	Length L [mm]	Dimension range from	Dimension range to	Pitch	Price [€]
6 TR	6	M 4	30	1,0	1,4	1,0	--
				1,5	5,0	1,0	--
7TR	7	M 4	30	1,0	2,0	1,0	--
				3,0	5,0	1,0	--
12 TR	12	M 6	30	4,0	10,0	1,0	--

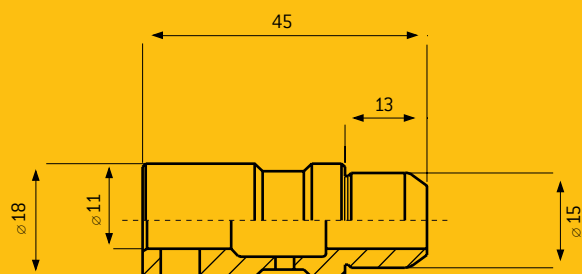


## Inside clamping sleeves

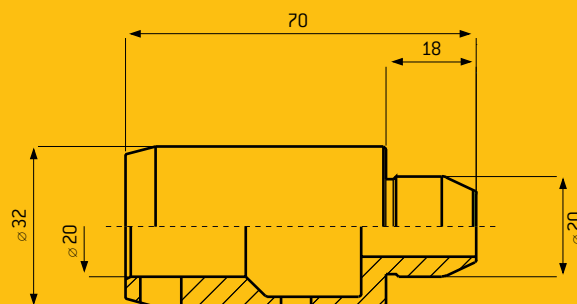
Part no.:	ø D [mm]	ø P [mm]	Length L [mm]	Pitch	Price [€]
7 I	7	M 5	37	1,0	--
10 I	10	7	40	1,0	--
12 I	12	8	40	1,0	--
15 I	15	11	40	1,0	--
18 I	18	11	40	1,0	--
20 I	20	14	65	1,0	--
25 I	25	20	65	1,0	--
28 I - 36 I					--

**!** INSIDE CLAMPING SLEEVES FROM D25 ALSO AVAILABLE IN TURBO

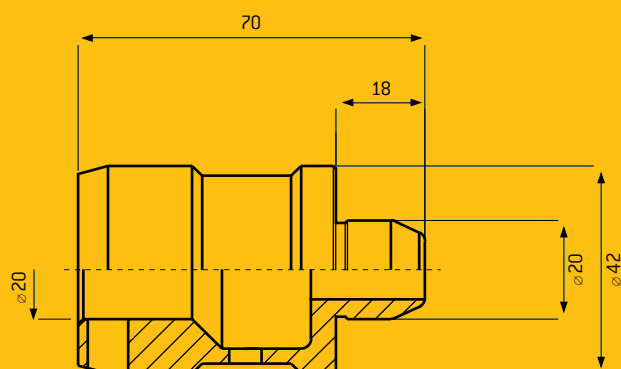
## Inside clamping sleeves for index multi spindle machine



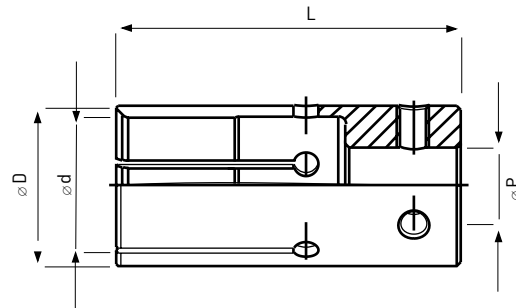
Order number D18 IMS 52  
On Request



Order number D32 IMS 52  
On Request



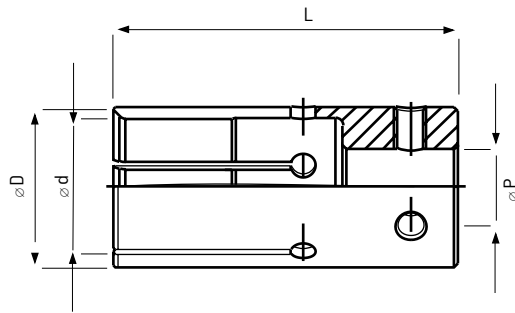
Order number D42 IMS 52  
On Request



## Turbo-bar feed collets

Part no.:	Channel [mm]	ø D [mm]	ø P [mm]	Length L [mm]	Dimension range from to		Pitch	Price [€]
SHT 25	25 D	25	20 H 7	90	4,0	7,5	0,5	--
					8,0	20,0	0,5	--
					20,5	22,0	0,5	--
SHT 28	29 D	29	20 H 7	90				--
SHT 30	30 D	30	20 H 7	90	5,0	8,0	1,0	--
					9,0	27,0	0,5	--
					27,5 & 28,0			--
SHT 32	32 D	32	20 H 7	90	5,0	8,5	0,5	--
					9,0	28,0	0,5	--
					28,5	30,0	0,5	--
SHT 34	34 D	34	20 H 7	90				--
SHT 36	36 D	36	20 H 7	90	6,0	9,0	1,0	--
					10,0	30,0	0,5	--
					30,5	33,0	0,5	--
					34,0			--
SHT 38	38 D	38	20 H 7	90				--
SHT 40	40 D	40	20 H 7	90	10,0	36,0	1,0	--
SHT 42	42 D	42	20 H 7	90	6,0	10,0	1,0	--
					11,0	39,0	0,5	--
					39,5 & 40,0			--
					40,5			--
SHT 45	45 D	45	20 H 7	90	6,0	11,0	1,0	--
					12,0	42,0	1,0	--
SHT 50	50 D	50	20 H 7	90	6,0	12,0	1,0	--
					13,0	44,0	1,0	--
					45,0	47,0	1,0	--
					48,0			--
SHT 54	54 D	54	20 H 7	90				--
SHT 58	58 D	58	20 H 7	90				--
SHT 60	60 D	60	20 H 7	90	10,0	15,0	1,0	--
					16,0	55,0	1,0	--
					56,0 & 57,0			--
					58,0			--

» Table to be continued



## Turbo-bar feed collets

Part no.:	Channel [mm]	ø D [mm]	ø P [mm]	Length L [mm]	Dimension range from to		Pitch	Price [€]
SHT 65	65 D	65	20 H 7	90	8,0	15,0	1,0	--
					16,0	60,0	1,0	--
					61,0 & 62,0			--
SHT 80	80 D	80	35 H 7	90	40,0	72,0	1,0	--
SHT 90	90 D	90	35 H 7	90	50,0	80,0	1,0	--
SHT 100	100 D	100	35 H 7	110	60,0	90,0	1,0	--

« Table end

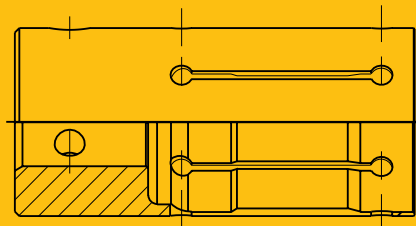


IT IS RECOMMENDED TO USE TURBO-BARFEED COLLETS FROM SIZE D40 WITH A SPRING  
ALL TURBO-BAR FEED COLLETS CAN BE DELIVERED IN XT-VERSION FOR XT-BAR LOADERS

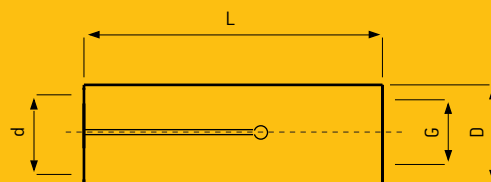
Surcharges for bar feed collets hexagon and square	Dimension range from to		Pitch	Price [€]
	4,0	10,0	1,0	--
	11,0	20,0		--
	21,0	30,0	1,0	--
	31,0	40,0	1,0	--
	from 41			--



OUR BAR LOAD COLLETS CAN BE USED FOR ALL COMMON BAR LOADER BRANDS,  
IF NEEDED WE ALSO DELIVER ADAPTERS.



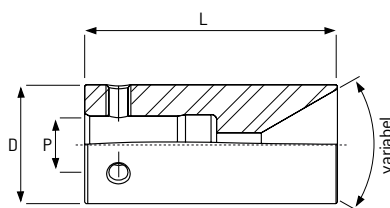
All thin bar feed collets  
can be delivered in closed slot version



## Bar feed collets for D Traub with inside thread

Part no.:	Channel [mm]	ø D [mm]	Thread G	Length L [mm]	Dimension range from to		Pitch	Price [€]
12 G	12 D	11	M 8 x 1	50	3,0	10,0	1,0	--
16 G	16 D	14	M 10 x 1	65	3,0	13,0	1,0	--
					13,0	14,0	1,0	--
20 G	20 D	19	M 12 x 1	65	3,0	18,0	1,0	--
23 G	23 D	21	m 12 x 1	65	5,0	18,0	1,0	--
26 G	26 D	24	M 17 x 1	65	4,0	22,5	1,0	--
30 G	30 D	28	M 17 x 1	65	3,0	26,0	1,0	--
33 G	33 D	32	M 17 x 1	65	10,0	30,0	1,0	--
36 G	36 D	34	M 25 x 1,5	65	4,0	32,0	1,0	--

! ALSO AVAILABLE FOR INSIDE CLAMPING

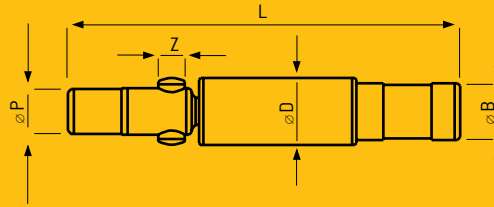


## VKK for bar loader

Part no.:	ø D [mm]	ø P [mm]	Length L [mm]	Price [€]
VKK 10	10,3	7H7	40	--
VKK 12	12,3	8H7	40	--
VKK 15	15,3	11H7	40	--
VKK 20	20,3	14H7	65	--
VKK 25	25,3	20H7	65/90	--
VKK 28	28,3	20H7	65/90	--
VKK 30	30,3	20H7	65/90	--
VKK 32	32,3	20H7	65/90	--
VKK 36	36,3	20H7	65/90	--
VKK 38	38,3	20H7	65/90	--
VKK 40	40,3	20H7	65/90	--
VKK 42	42,3	20H7	90	--
VKK 45	45,3	20H7	90	--
VKK 50	50,3	20H7	90	--
VKK 60	60,3	20H7	90	--
VKK 65	65,3	20H7	90	--
ab 67				--

! ALL VKKS IN TURBO AVAILABLE (LENGTH 90MM)



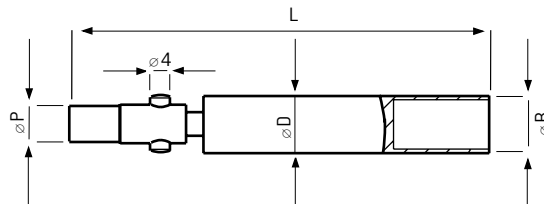


## Bearing inserts for bar loader

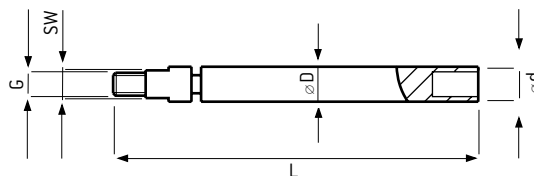
Channel D	Machine type	$\varnothing B$ [mm]	$\varnothing Z$ [mm]	$\varnothing P$ [mm]	Length L [mm]	Price [€]
10 D	FMB, Irco, lemca	8	4	7	100	--
12 D	FMB, Irco, lemca	8	4	8	100	--
13 D	FMB, Irco, lemca	8	4	8	100	--
15 D	FMB, lemca, Traub	12	6	11	100	--
18 D	FMB, lemca, Traub	12	6	11	100	--
20 D	FMB, lemca, Traub	14	8	14	116	--
22 D	FMB, lemca, Traub	14	8	14	116	--
25 D	FMB, lemca, Traub	20	8	20	119	--



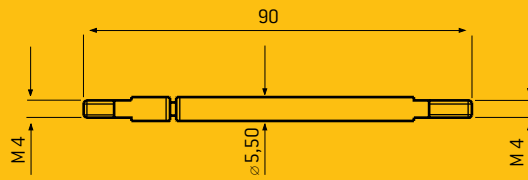
27 D / 30 D / 32 D ON REQUEST, AS WELL AS VARIOUS KIND OF SPECIAL DESIGNS



Channel D	Machine type	$\varnothing B$ [mm]	$\varnothing P$ [mm]	Length L [mm]	Price [€]
10 D	Traub	9	7	88,5	--
12 D	Traub	11	8	88,5	--



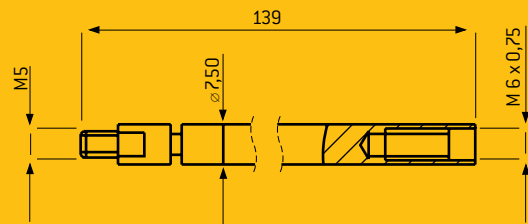
Channel D	Machine type	G [mm]	d [mm]	Length L [mm]	Price [€]
5 D	FMB, Traub	M4	4,5	75	--
7 D	FMB, Traub	M5	6,4	82	--



## Bearing-inserts for bar loaders

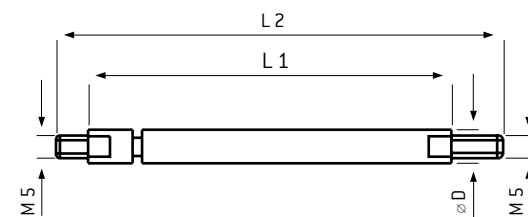
lemca

Channel D	Machine type	Length [mm]	Price [€]
5 D	lemca	90	--



lemca

Channel D	Machine type	Length [mm]	Price [€]
7 D	lemca	139	--

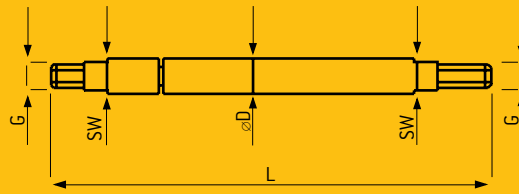


Bechler

Part no.:	ø D [mm]	L 1 [mm]	L 2 [mm]	Price [€]
7 B	7	63	84	--
10 B (A)	10	56	84	--
10 B (B)	10	68	96	--

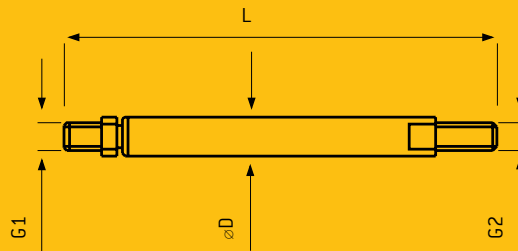


SPECIAL BEARING INSERTS ON REQUEST



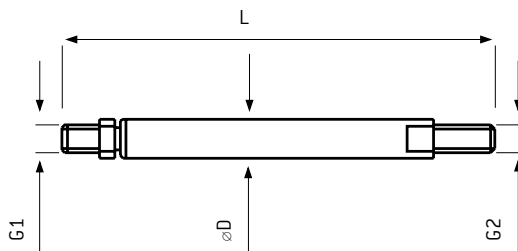
Gauthier

Part no.:	$\varnothing D$ [mm]	Thread G	SW	L [mm]	Price [€]
5 G	5	M 4	4	80	--
7 G	7	M 5	6	86	--



TORNOS

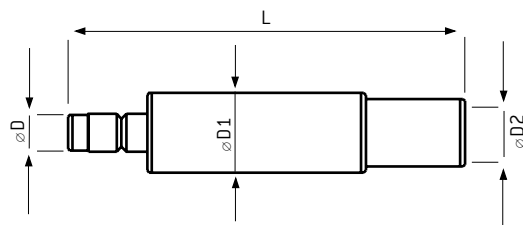
Part no.:	$\varnothing D$ [mm]	L [mm]	G 1	G 2	Price [€]
ERT 0550	5,5	54	M 3	M 3	--
ERT 0700	7,0	47	M 4	M 5	--
ERT 0750	7,5	47	M 4	M 5	--
ERT 0850	8,5	47	M 5	M 5	--
ERT 1050	10,5	52	M 6	M 6	--



LNS / TRYTON

Channel	$\varnothing D$ [mm]	Length L [mm]	G 1	G 2	Price [€]
7 TR	7	63	M 5	M 4	--
12 TR	12	72	M 6	M 6	--

## Turbo-bearing inserts



Channel D1	Length L [mm]	D	D2	Price [€]
25 D	197	20	20	--
30 D	197	20	25	--
32 D	197	20	25	--
34 D	197	20	30	--
36 D	197	20	30	--
38 D	197	20	30	--
40 D	207	20	33	--
42 D	207	20	33	--
44 D	207	20	33	--
45 D	207	20	33	--
50 D	207	20	42	--
54 D	232	20	42	--
55 D	232	20	42	--
58 D	232	20	51	--
60 D	232	20	51	--
63 D	232	20	51	--
65 D	232	20	51	--
70 D	232	20	51	--
75 D	232	20/35	65	--
80 D	232	35	65	--
90 D	232	35	65	--
100 D	232	35	82	--

! OUR BEARING INSERTS CAN BE USED FOR ALL COMMON BAR LOADER BRANDS

Surcharges for special holes from 4 - 42mm inner diameter, which do not match with the steps shown in the price list.

on orders from 10 pieces per type	--
on orders from 5-9 pieces per type	--
on orders from 1-4 pieces per type	--
smooth holes (depending on the innerdiameter size)	--
grinding surcharges for hard metal guide bushes	--
round holes in higher accuracy of concentricity + 25 % from collet price minimum	--
round holes in higher accuracy of concentricity + 50 % from collet price minimum	--

SURCHARGES FOR HARD METAL COATING	
hole diameter	Surcharge
up to 20,0	--
20,1 - 30,0	--
30,1 - 40,0	--
40,1 - 50,0	--
50,1 - 60,0	--

## Collets and Guide Bushes can be sealed.

Discount for large orders for collets listed in this catalogue

from 10 pieces	10 % discount
from 20 pieces	15 % discount
from 50 pieces	20 % discount

Discounts applicable for standard catalogue products only.

**Special types manufactured on request are not discountable.**

# Terms of sale, delivery and payment

## Validity of the conditions

Deliveries, performances and offers are made exclusively on the basis of these general terms and conditions.

They will also be valid for future business relations of the contracting parties if there is no other agreement. Differing customer conditions of purchase of the will not be accepted by us, even not tacitly, if they are not explicitly confirmed in a written way.

## Offer and conclusion of a contract

The offers are without engagement and not binding. Acceptance declarations and all orders require our written confirmation for their legal validity. The same applies to supplements, changes or ancillary agreements.

## Prices

Our prices are valid, if not agreed in another way, ex works Villingen-Schwenningen exclusively freight charges and packing charges. They are calculated on the basis of the cost factors at the time of our written acceptance of order. If the costs of production increase essentially we reserve the right to charge the prices valid at the time of delivery. A minimum amount of 30, - EUR is charged in case of orders less than 30, - EUR.

Net prices are always valid for orders less than 50, - EUR. The actual sales tax has to be added to the prices. Additional deliveries and performances are charged separately.

## Period of delivery and performance

Periods of delivery and delivery deadlines are indicated in the best probability (to the best of our knowledge and belief) but they are only approximate dates. We have the right to exceed the indicated delivery deadlines up to 30 calendar days. After the deadline expiration the purchaser is entitled to cancel the contracts with regard to the not yet fulfilled part of the contract after a reasonable period of grace of at least 14 days. Delayed deliveries or performance because of force majeure – strikes, lockouts, official orders belonging to it – even if they happen at our suppliers – entitle us to postpone the delivery or performance by the delay by force majeure plus a reasonable start-up phase or to cannally by us and does not go back to gross negligence. Part deliveries and part performance are permitted. Special versions can quantitatively remain by up to 10 % under or exceeded by up to 10 % as customary in trade or commerce. The actually delivered quantity is always charged.

## Payment

If not explicitly agreed in another way our invoices are payable within 10 days from the date of invoice with 2 % cash discount or within 30 days from the date of invoice net. We are entitled to count payment of the purchaser despite his differing instructions against his differing instructions against his older (still existing) debts first. In case of already arisen costs and interest we are entitled to count the payment first against the costs, then against the interest and after that against the main performance. In case of default in payment we have the right to charge interest in the amount of the current interest on borrowings from this time on. Claims for further damages are reserved.

If we accept bills or cheques all arising expenses are taken over by the purchaser. If there is a protest against a bill or a cheque handed over by the purchaser, if the purchaser stops his payment or if other circumstances which make the credit standing of the purchaser uncertain, all accounts receivable from the purchaser become immediately due, irrespective of the legal argument.

The same is due if the purchaser does not meet terms of payment or in case we institute legal collection proceedings. The counting against counter claims is only permitted if they are legally enforceable claims or not litigious ones.

### **Reservation of ownership**

Until the fulfilment of all our demands against the purchaser irrespective of the legal argument, even from previous and following deliveries, especially from cashing of cheques or discharging of bills the delivered goods remain our ownership. The purchaser has the right to process the goods and to resell them by due ( legal) business. Pawns or security transfers are not permitted. If our ownership expires through connection or processing it is hereby agreed that the ownership of the created common good by the equivalent share of value devolves upon us. In case of a resale our reservation of ownership is the demand of the purchaser against his respective customer. An explicit assignment to us is not required for it. The purchaser is obliged to underline our ownership if third parties access to the goods with reserved ownership. Goods delivered according to an acceptance of order can only be returned in justified exceptional circumstances for a credit note in case of our previous written agreement. Administration costs of 15 % of the invoiced value of goods, at least 20, - EUR are charged for it. If the delivered goods are damaged the credit note is reduced by the costs of our amount of work involved in the restoration of the goods in order to be sold (new condition).

### **Warranty**

We guarantee the assured characteristics and correctness according to the respective state of technique. Changes of the constructions and manufacture that neither have a negative effect on the proper operation of the goods nor an influence on the value of the ordered goods are reserved and do not justify a complaint. The purchaser is obliged to an immediate incoming control. A notice of defects has to be sent to us immediately, however, not later than within 5 calendar days after receipt of the delivery item in a written way. We have to be informed on defects that were not detected even after careful inspection within this deadline immediately after their detection in a written way. If justified defects that have an essential influence on the value and the usability are detected we are free to choose a substitute delivery or rework, other warranty claims of the purchaser excluded. Selation of the contract. A liability because of normal depreciation is excluded. Only the direct purchaser can make a warranty claim. Warranty claims cannot be assigned. Claims for damages resulting from the impossibility of performance because of failure of performance, from positive violation of contractual duties, culpa in contrahendo or unlawful act are excluded, if the defects are not caused intentionally by us and do not go back to gross negligence in our enterprise. We are not liable especially for possible indirect losses because of defects, e.g. penalties on arrears, failure damages etc.

### **Place of fulfilment and jurisdiction, applicable law, partial voidness**

Place of fulfilment is Villingen- Schwenningen.

Freiburg is agreed as place of jurisdiction, if this is legally admissible.

The law of the Federal Republic of Germany is valid for these general terms and conditions and all legal relationships between the purchaser and us. The application of the international right of purchaser is excluded. If one clause of these general terms and conditions or a clause within other agreements proves to be or to become invalid, the effectiveness of the remaining clauses or agreements will not be influenced. The data of the purchaser are stored by computer (§ 26 BDSG)

Valid from 01.08.2007







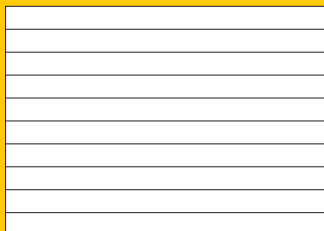




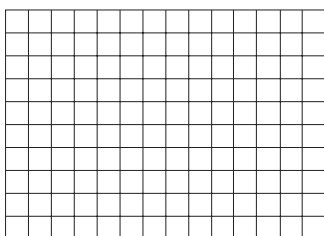
## Surface finishes for pressure collets inside chucking area



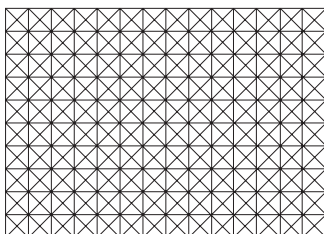
**smooth**



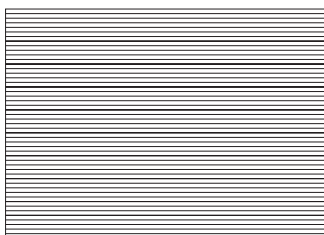
**radial grooves**



**radial and axial grooves**



**Supergrip**



**HM-coating**

All standard collets with special coating available.





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