





VALUES FOR A VALUABLE COLLABORATION!

OEM COMPETENCE
OEM partnership.
Technological leadership.
Absolute confidence

CUSTOMER PROXIMITY
Close dialogue.
Rapid solution competence.
Innovative capacity.

100% MANUFACTURING DEPTH
Maximum flexibility.
Prompt implementation.
All from one source.

FIRST CLASS QUALITY
Competitive edge.
Safety.
No compromises.

INDIVIDUAL SOLUTIONS
Customer specific.
Perfectly adapted.
Maximum performance.

Those who decide to work together with Schlenker can depend on these five pillars of the company’s strong performance foundations.

Quality is inseparable from our corporate success. Therefore, even in times of productions in low-wage countries, we relentlessly focus on Germany as a location.

Instead of standard solutions, we offer our customers specialized product solutions with options that provide decisive added value. In doing so, we have organized our production in such a way that variants bring no delay compared to the basic product.

The courage to consistently provide uncompromisingly high quality products has been a continual focus for the Schlenker through-out its 66 year history. Even after the takeover of the company by Dipl.-Ing. Josef Meißner in 1986, the company remained true to its roots. Unimpressed by the first production relocations of German companies abroad, they continued to focus on Germany as their production location and began in 1990 with the construction of the new company building in Schwenningen industrial area. When Josef Meißner died in 1999, his wife Inge took over the management and drove the success of Schlenker in the same spirit. After completing her mechanical engineering studies and work experience at home and abroad, daughter Britta Hoffmann joined Schlenker in 2006 and has been managing the company since 2008. Schlenker is today regarded as the technological leader in the market for clamping tools and, above all, continuously builds the business with customer-specific and innovative product solutions. More than 100 qualified and motivated employees are available for this purpose.

Welcome to Schlenker!

Wide range of product solutions

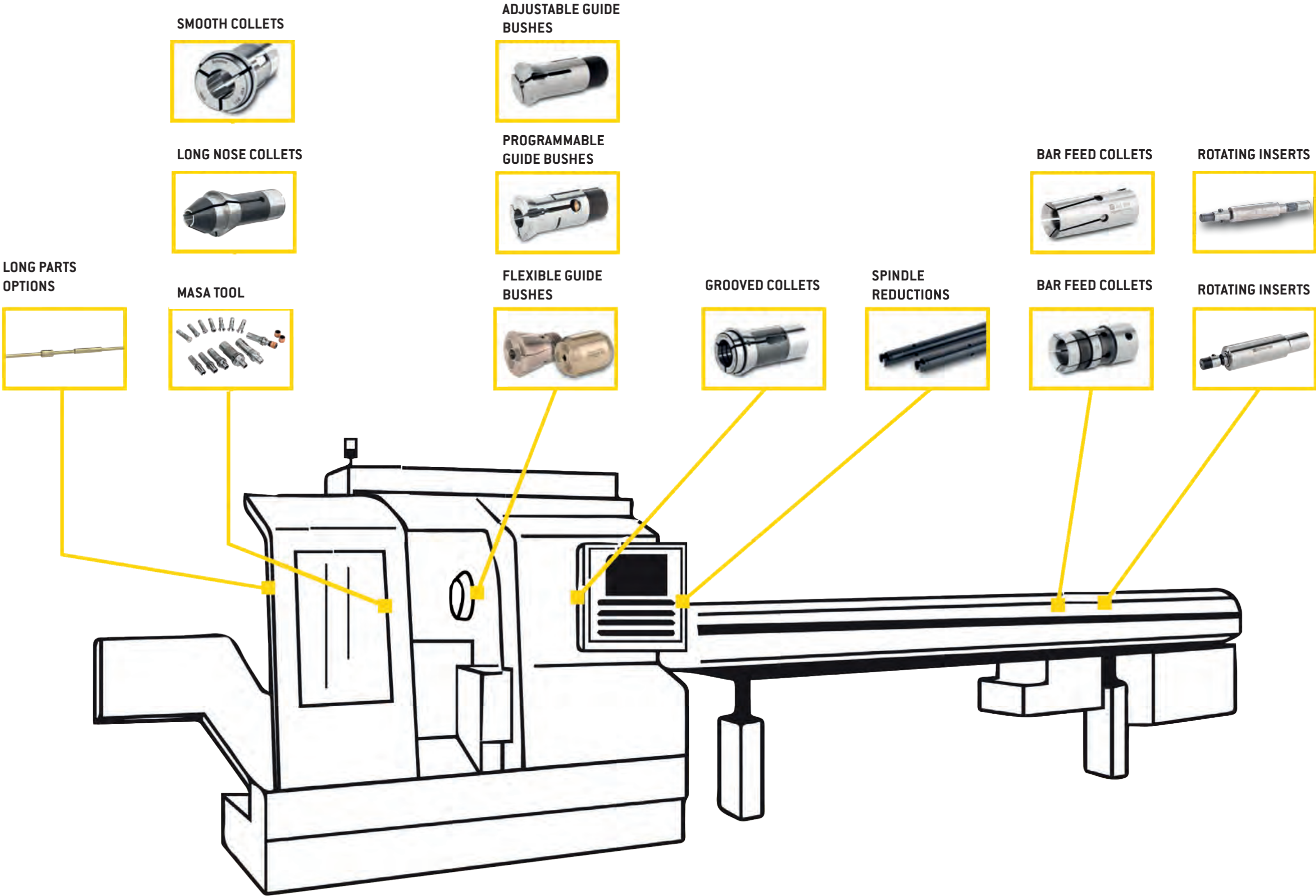


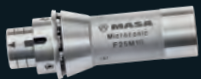
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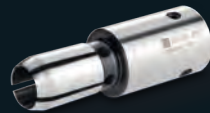
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Dead Length Collets



- SMOOTH**
- Collet leaves no marks on the already machined and still to be machined workpiece
 - Main area of application on the sub spindle
 - Collets smooth until "D" 5.9mm, 177E and bigger until "D" 8.9mm



- GROOVED**
- Wide grooves / Transverse grooves
 - Main area of application on the main spindle
 - Collets with a "D" bigger than 6.0mm, 177 E and bigger than 9.0mm



- SLOT IN CONE**
- The slot is intended for aligning the collet chuck in the machine with special as well as square and hexagonal profiles



- SLOT IN SHAFT**
- The slot is intended for aligning the collet chuck in the machine with special as well as square and hexagonal profiles



- CARBIDE COATING**
- Increased holding force through the addition of the carbide coating on the clamping surface
 - Rough surface



- L+Q GROOVES**
- Stronger holding force than only having transverse grooves due to the extra longitudinal grooves



- SQUARE**
- By default, square profile collets as of square 8 are supplied with transverse grooves



- HEXAGONAL**
- By default, hexagonal profile collets as of hexagon 8 are supplied with transverse grooves



- SUPERGRIP**
- Utmost holding force at the same clamping pressure due to the closely placed longitudinal and transverse grooves



- SPECIAL PROFILE**
- It is possible to produce any profile
 - Our construction team will gladly help with the design



- STEPS**
- Collet for simultaneous clamping of multiple diameters of a workpiece
 - Extreme precision due to steps



- BL COATING**
- Smooth surface
 - Less shading to be processed on the material



- PREMIUM BLUE**
- Economical alternative to carbide collets
 - High wear resistance
 - Can be used with special forms
 - Are completely coated also on the functional surfaces as cone and shaft



- CONICAL**
- To grip conical workpieces
 - The collet angle will fit to your component



- WITH INTERNAL STOP**
- For manual machine loading for a particular length
 - To stabilise the workpiece in case of a small clamping surface

Dead Length Collets Options



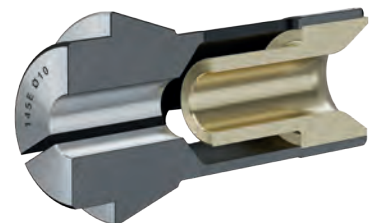
- S-SLOT
- High and uniform clamping force
 - Clamping without marks on the material to be processed
 - Alternatively usable for square and hexagonal material
 - No contamination in the collet because the collet almost completely closes



- L-SLOT
- Ideal to clamp shorter workpieces
 - Clamping without marks on the material to be processed
 - No contamination in the collet because the collet almost completely closes



- EJECTOR AND INNER COOLING
- Mechanical ejection of the workpiece
 - Inner cooling of component if needed
 - Clamping surface cleaning
 - Simple exchange of ejector possible within a type of collet



- INSERT AID
- To improve threading by smaller diameters
 - To reduce vibration in order to more smoothly place material over the entire length of the collet



- UP VERSION
- Improved concentricity properties



- SEALING
- Improved dirt resistance
 - Can also be fixed in the slot
 - Can also be belatedly fixed



PLASTIC INSERTS



BRASS INSERTS



PERMAGLIS INSERTS

- Prevents marks on the component
- Inserts are exchangeable after wear
- Ideal when used with materials prone to scratching as well as careful clamping



ALUMINUM INSERTS



BRONZE INSERTS

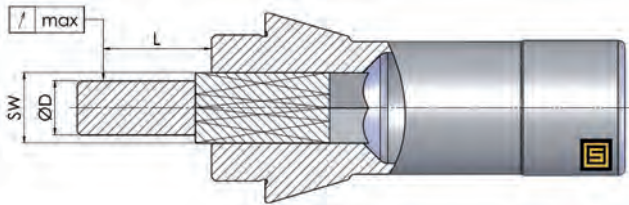


CARBIDE INSERTS

- Higher service life

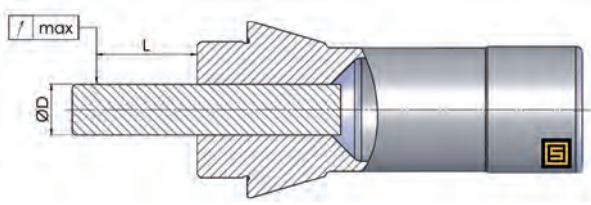
You can choose between different collet inserts, depending on your workpiece and your material. Further collet inserts made of different materials are available. We will gladly provide advice per telephone +49 7720 9944-0 or per email info@schlenker-spannwerkzeuge.de

Concentricity Tolerance of Collets with Profile



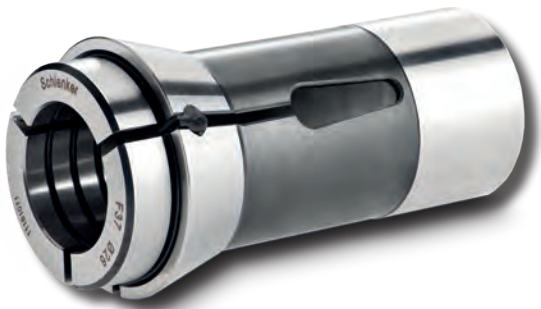
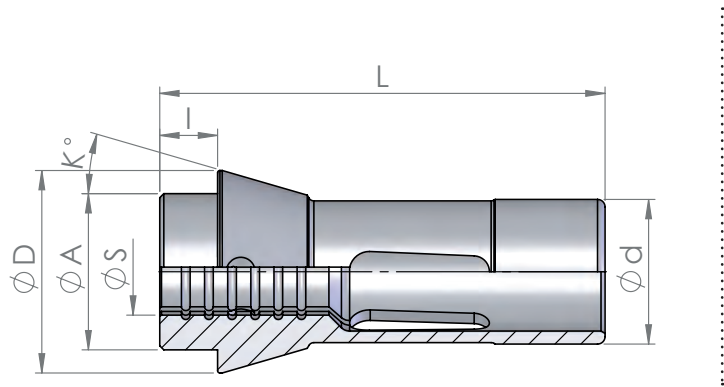
profile SW		L	Standard	Schlenker-Standard	
from	to			Standard	UP
0,5	0,9	3	0,12	<0,02	<0,01
1	1,5	6	0,12	<0,02	<0,01
1,6	3	10	0,12	<0,02	<0,01
3,1	6	16	0,12	<0,02	<0,01
6,1	10	25	0,15	<0,02	<0,01
10,1	18	40	0,2	<0,02	<0,01
18,1	24	50	0,2	<0,02	<0,01
24,1	30	60	0,2	<0,02	<0,01
30,0		80	0,2	<0,02	<0,01

Concentricity Tolerance of Round Collets



Bore		L	Schlenker-Standard	
from	to		Standard	UP
0,5	0,9	3	<0,01	<0,005
1	1,5	6	<0,01	<0,005
1,6	3	10	<0,015	<0,008
3,1	6	16	<0,015	<0,008
6,1	10	25	<0,015	<0,008
10,1	18	40	<0,02	<0,01
18,1	24	50	<0,02	<0,01
24,1	30	60	<0,02	<0,01
30,0		80	<0,03	<0,015

Dead Length Collets



Dead length collets are used in both the main and sub spindle. Death length collets can be used for different machine types, such as: fixed headstock automatic lathes, sliding headstock automatic lathes, multi-spindle machines, conventional lathes, cam-controlled lathes and special purpose machines.

Item	ø d [mm]	ø D [mm]	ø A [mm]	Length I [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]		
101 E TF 8 F 8 - 577	8	12	8	4,5	42	16	0,5 - 5,0	1,0 - 3,5	1,0 - 4,5
109 E TF 10 F 10	10	16	10	5,5	47,5	20	0,5 - 7,0	1,0 - 5,0	1,0 - 6,5
112 E	11	19	12	6	41	22	0,5 - 7,0	1,0 - 5,0	1,0 - 6,5
116 E F 13	13	19	13	6	64	16	0,5 - 10,0	2,0 - 7,0	2,0 - 8,5
118 E	14	19,5	15	6	46	15	0,5 - 10,0	2,0 - 7,0	2,0-9,0
120 E TF 15 F 15	15	21	15	6	64	16	0,5 - 12,0	2,0 - 8,5	2,0 - 10,5
1212 E TF 16 F 16	16	21	16	6	64	16	0,5 - 12,5	2,0 - 8,5	2,0 - 10,5
SYF 16 M14 x 0,75	16	21	16	8	66	16	0,5 - 13,0	2,0 - 9,0	2,0 - 11,0
127 E (TF 18)	18	25	18	6	67	16	0,5 - 13,0	2,0 - 9,5	2,0 - 11,5
136 E F 20-201	20	26	19	5	54	15	0,5 - 16,5	2,0 - 12,0	2,0 - 14,5
138 E TF20 F 20-87	20	28	21	7	67	16	0,5 - 16,0	2,0 - 11,5	2,0 - 14,0
140 E TF 22 F 22	22	30	21	6	55	15	0,5 - 16,5	2,0 - 12,0	2,0 - 14,5
TF 24	24	28	22	7	62	15	0,5 - 18,5	2,0 - 13,0	2,0 - 16,0

Item	ø d [mm]	ø D [mm]	ø A [mm]	Length I [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]		
144 E	25	34	25	6	65	15	0,5 - 20,0	2,0 - 14,5	2,0 - 17,0
145 E TF 25 F 25	25	35	27	10	77	16	0,5 - 20,0	2,0 - 14,5	2,0 - 17,5
147 E F27 - 22	27	38	30	8	72,7	15	0,5 - 23,0	2,0 - 16,0	2,0 - 20,0
148 E F 28	28	38	28	7	70	15	0,5 - 23,0	2,0 - 16,0	2,0 - 20,0
BS 20	28	35	27	10	77	16	0,5 - 23,0	2,0 - 16,0	2,0 - 20,0
157 E TF 30 F 30	30	42	34	10	80	16	0,5 - 25,0	2,0 - 18,0	2,0 - 22,0
EF 30 1446 E	30	38	32	6	65	15	0,5 - 26,0	2,0 - 18,5	2,0 - 22,5
161 E F 32	32	45	34	8	75	15	1,0 - 25,5	2,0 - 18,0	2,0 - 22,5
0166	32	40	34	6	65	15	1,0 - 28,0	2,0 - 20,0	2,0 - 24,5
162 E	35	43	34	7	70	15	1,0 - 29,5	2,0 - 21,0	2,0 - 25,5
163 E F 35	35	48	38	8	80	15	1,0 - 30,5	2,0 - 21,5	2,0 - 25,5
EF37 TF 37 1536 E	37	47	40	10	92	16	1,0 - 33,0	2,0 - 23,0	2,0 - 27,0
164 E F 38	38,08	49	38	9,5	108	15	1,0 - 32,0	2,0 - 22,5	2,0 - 28,0
EF40	40	47	40	10	92	16	1,0 - 36,0	2,0 - 25,5	2,0 - 31,5
171 E F 42	42	55	42	9	94	15	1,0 - 37,0	4,0 - 26,5	4,0 - 32,0
TF 43	43	53	46	10	92	16	1,0 - 39,0	4,0 - 27,5	4,0 - 33,5
F44	44	52	44	10	92	16	1,0 - 38,0	4,0 - 27,0	4,0 - 33,0
173 E F 48	48	60	50	9	94	15	1,0 - 42,0	4,0 - 30,0	4,0 - 36,5
TF 48	48	60	50	9	94	15	1,0 - 42,0	4,0 - 30,0	4,0 - 36,5
BS 38	48	54	44	10	100	15	1,0 - 40,0	4,0 - 28,0	4,0 - 34,5
177 E F 58	58	70	60	9	94	15	3,0 - 52,0	4,0 - 37,0	4,0 - 45,0
185 E F66	66	84	73	9	110	15	3,0 - 60,0	5,0 - 42,5	5,0 - 52,0
185 E - Short F66		84	73	9	40	15	61,0 - 65,0		
190 E F 88	88	106	94	10	115	15	60,0 - 80,0	20,0 - 56,0	20,0 - 69,0
193 E F 90					a.A				

Long Nose Collets Options



- SMOOTH** • Collet leaves no marks on the already machined and still to be machined workpiece



- CARBIDE INSERTS** • Higher product life expectancy



- BL COATING** • Smooth surface
• Less shading to be processed on the material



- CARBIDE COATING** • Increased holding force on the clamping surface
• Rough surface



PLASTIC INSERTS



BRASS INSERTS



PERMAGLIS INSERTS

- Careful clamping
- Inserts are exchangeable after wear
- Ideal when used with materials prone to scratching as well as careful clamping



ALUMINUM INSERTS



BRONZE INSERTS

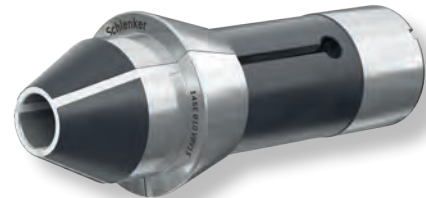


STEEL INSERTS

You can choose between different collet inserts, depending on your workpiece and your material. Further collet inserts made of different materials are available. We will gladly provide advice per telephone +49 7720 9944-0 or per email info@schlenker-spannwerkzeuge.de



- S-SLOT** • High and uniform clamping force
• Clamping without marks on the material to be processed
• Alternatively usable for square and hexagonal material
• No contamination in the collet because the collet almost completely closes



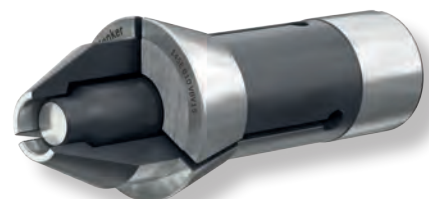
- SEALING** • Improved dirt resistance



- SLOT IN CONE** • The slot is intended for aligning the collet chuck in the machine with special as well as square and hexagonal profiles



- SLOT IN SHAFT** • The slot is intended for aligning the collet chuck in the machine with special as well as square and hexagonal profiles



- WITH INTERNAL STOP** • For manual machine loading for a particular length
• To stabilise the workpiece in case of a small clamping surface



- WITH INSERT AID** • To improve threading by smaller diameters
• To reduce vibration

Long Nose Collets Options



SQUARE • By default, square profile collets are smooth upon delivery



SPECIAL PROFILE • It is possible to produce any profile



CONICAL • To grip conical workpieces



HEXAGONAL • By default, hexagonal profile collets are smooth upon delivery



STEPS • Used to simultaneously clamp multiple diameters of a workpiece

Special Long Nose Collets



Special Long Nose Collets with Notch
To secure the process of milling elongated slots. Straight long nose, but narrower in shape. Long nose offset to better access the tools

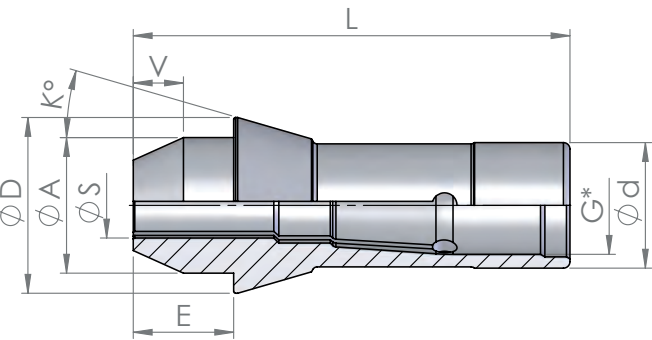


Special Conical Collets with Hole
This long nose collet allows you to machine your workpiece while clamped via the long nose various designs are possible for this component



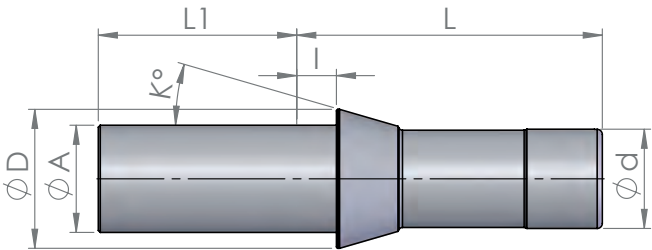
Offset Long Nose Collets
To better access the components

Long Nose Collets

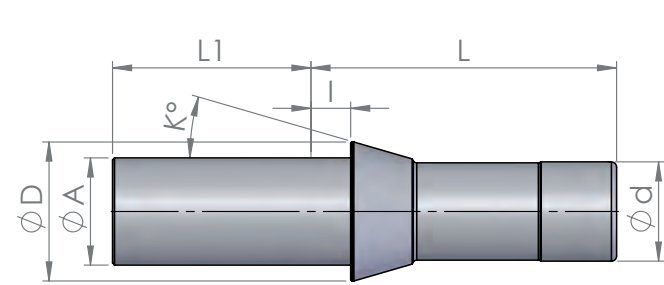


Item	ø d [mm]	ø D [mm]	ø A mm]	Long nose Length V [mm]	Length L [mm]	E [mm]	Thread G*	Cone K [degree]	Clamping Diameter S min. - max. [mm]
116 E VBV F 13 - 2014	13	19	13	6	70	12		16	0,5 - 10,0
116 E VBV M11 x 0,75	13	19	13	6	70	12	M11x0,75	16	0,5 - 10,0
120 E VBV F15	15	21	15	7 9	71 73	13 15		16	0,5 - 12,0
120 E VBV M12 x 0,75	15	21	15	7 9	71 73	13 15	M12x0,75	16	0,5 - 12,0
1212 E VBV F16	16	21	16	7 9	71 73	13 15		16	0,5 - 12,0
1212 E VBV F16 M14 x 0,75	16	21	16	7 9	71 73	13 15	M14x0,75	16	0,5 - 12,0
138 E VBV F 20	20	28	21	8 13	75 80	15 20		16	0,5 - 16,0
138 E VBV M17 x 0,75	20	28	21	8 13	75 80	15 20	M17x0,75	16	0,5 - 16,0
136 E VBV F 20	20	26	19	8 10	62 64	13 15		15	0,5 - 16,0
136 E VBV M18 x 1	20	26	19	8 10	62 64	13 15	M18x1	15	0,5 - 16,0
145 E VBV F 25	25	35	27	10 15	87 92	20 25		16	0,5 - 20,0
145 E VBV M22 x 1	25	35	27	10 15	87 92	20 25	M22x1	16	0,5 - 20,0
1446E VBV EF 30 - 101	30	38	32	10	79	16		15	1,0 - 26,0
161 E	32	45	34	15	90	23		15	1,0 - 25,0
163 E VBV F 35	35	48	38	19	99	27		15	1,0 - 30,0
1536 E VBV F 37	37	47	40	10 15	102 107	20 25		16	1,0 - 32,0
164 E VBV F 38 - 76-2004	38	49	38	15	123	24,5		15	1,0 - 32,0
173 E VBV F 48 - 76-2006	48	60	50	19	113	28		15	2,0 - 42,0

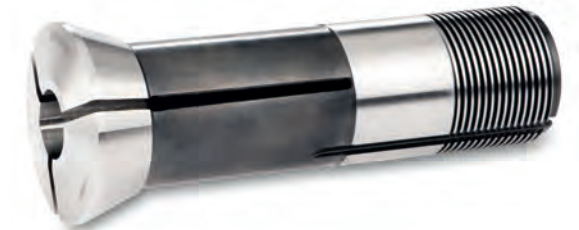
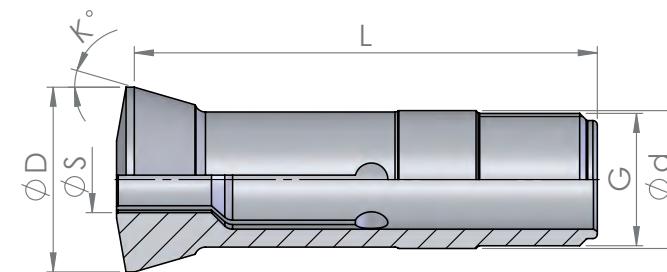
Alignment Pins for Collets



Item	ø d [mm]	ø D [mm]	ø A [mm]	Length l [mm]	Length L1 [mm]	Length L [mm]	Length K [degree]
101 E TF 8 F 8 - 577	8	12	8	4,5	70	112	16
109 E TF 10 F 10	10	16	10	5,5	70	117,5	20
112 E	11	19,1	12	6	70	111	22
116 E F 13	13	19	13	6	70	134	16
118 E	14	19,5	15	6	70	116	15
120 E TF 15 F 15	15	21	15	6	70	134	16
1212 E TF 16 F 16	16	21	16	6	70	134	16
127 E (TF 18)	18	25	18	6	70	137	16
136 E F 20-201	20	26	19	5	100	154	15
138 E TF 20 F 20-87	20	28	21	7	100	167	16
140 E TF 22 F 22	22	30	21	6	100	155	15
TF 24	24	28	22	7	100	162	15
144 E	25	34	25	6	100	165	15
145 E TF 25 F 25	25	35	27	10	100	177	16
147 E F27 - 22	27	38	30	8	100	173	15
148 E F 28	28	38	28	7	100	170	15
BS 20	28	35	27	10	100	177	16
157 E TF 30 F 30	30	42	34	10	100	180	16



Draw-in Collets



Options

SQUARE **HEXAGONAL** **BL COATING** **SMOOTH** **CARBIDE COATING** **CARBIDE INSERTS** **S-SLOT**
UP **LONG NOSE** **SEALING**

Item	ø d [mm]	ø D [mm]	ø A [mm]	Length l [mm]	Length L1 [mm]	Length L [mm]	Cone K [degree]
EF 30 1446 E	30	38	32	6	100	165	15
161 E F 32	32	45	34	8	100	175	15
0166	32	39,8	33,8	5,9	100	165	15
162 E	35	43	34	7	100	170	15
163 E F 35	35	48	38	8	100	180	15
164 E F 38	38,08	49	38	9,5	100	208	15
EF 40	40	47	40	10	100	192	16
171 E F 42	42	55	42	9	100	194	15
TF 43	43	53	46	10	100	192	16
F 44	44	52	44	10	100	192	16
173 E F 48	48	60	50	9	100	194	15
TF 48	48	60	50	9	100	194	15
BS 38	48	54	44	10	100	200	15
177 E F 58	58	70	60	9	150	244	15
185 E F 66	66	84	73	9	150	260	15

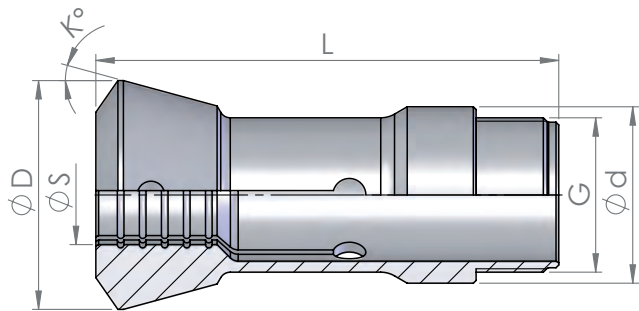
Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Thread G	Clamping Diameter S min. - max. [mm]		
324 E	15	21,5	53	20	M 13 x 1	1,0 - 9,0	2,0 - 6,5	2,0 - 8,0
3409 E	20	28	90	8	Tr. 20 x 1,5	2,0 - 16,0	a.A.	a.A.
351 E	20	28	80	20	Tr. 20 x 1,5	1,0 - 15,0	2,0 - 10,5	2,0 - 13,0
358 E	23	32	82	20	M 21 x 1	1,0 - 16,5	2,0 - 12,0	2,0 - 14,5
359 E	23	32	90	20	Tr. 23 x 1,5	1,0 - 18,0	2,0 - 13,0	2,0 - 16,0
363 E	25	33,5	84	16	M 23 x 1	1,0 - 17,5	2,0 - 12,5	2,0 - 15,5
366 E	28	36	102	18	Tr. 27 x 1/20"	1,0 - 21,0	2,0 - 15,0	2,0 - 18,0
367 E	28	38	100	20	Tr. 28 x 1,5	1,0 - 22,0	2,0 - 15,5	2,0 - 19,0
385 E	31,75	37,5	83	10	Outer: 31,45x1/20" Inner: 26,44x1,058	1,0 - 25,0	2,0 - 17,5	2,0 - 21,5
386 E	32	45	110	20	Tr. 32 x 1,5	1,0 - 27,0	3,0 - 19,0	3,0 - 23,5
666 E	25	35	59,5	20	M 25 x 1	3,0 - 20,0	a.A.	a.A.
K 20	20	28	80	20	Tr. 20 x 1,5	1,0 - 15,0	2,0 - 10,5	2,0 - 13,0
K 23	23	32	90	20	Tr. 23 x 1,5	1,0 - 18,0	2,0 - 13,0	2,0 - 16,0
K 32	32	45	110	20	Tr. 32 x 1,5	1,0 - 27,0	4,0 - 19,0	3,0 - 23,5
K 45	45	60	140	20	Tr. 45 x 2	5,0 - 36,5	5,0 - 26,0	5,0 - 32,0
KDT 38	58	70,3	99	15	M 50 x 1,5	10,0 - 38,0	8,0 - 26,0	8,0 - 32,0

Draw-in Collets

Main Spindle Multi-Spindle

Draw-in collets are used for clamping workpieces and are used in all common grinding machines, part machines, and re-lathes. The clamping is done by pulling back the collet in the collet sleeve.

Series 9000

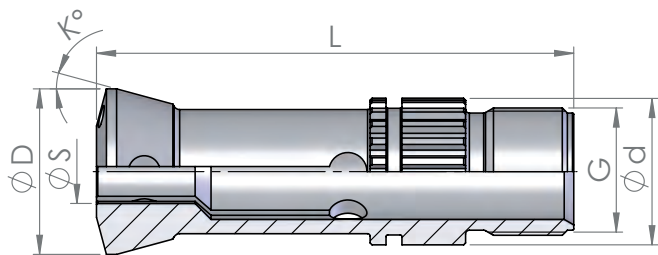


Options

CARBIDE INSERTS GROOVED SUPERGRIP

Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Thread G	Clamping Diameter S max. [mm]		
9001 E P25	25	35	73	15	M 22 x 1	20,0	14,0	17,0
9007 E	32	41,5	79	15	M 28 x 1 L	23,5	16,5	20,5
9012 E	34	42	85	16	M 30 x 1 L	25,0	17,5	21,5
9017 E	38	46	90	16	M 34,5 x 0,75 L	31,0	21,5	26,5
9021 E	25	35	92	16	M 25 x 1	20,5	14,5	18,0
9034 E	41,25	54,64	130	15	M1,484" x 1/24" L	32,0	23,0	29,5
9039 E	46	63	112	15	M 40 x 1,5 L	33,0	23,0	29,0
9049 E	46	60	112	15	M 40 x 1,5 L	33,5	24,0	29,0
9070 E	53	69	128	15	M 47 x 1,5 L	32,0	23,0	28,0
9112 E	62,9	78,3	147	15	M 56 x 1,5 L	40,0	28,0	35,0

TW20

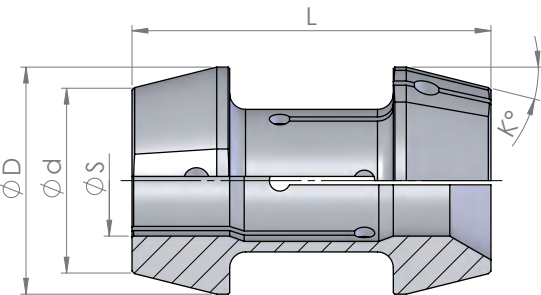


Options

BL COATING CARBIDE COATING CARBIDE INSERTS L+Q GROOVES
GROOVED S-SLOT SUPERGRIP UP SEALING

Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Thread G	Clamping Diameter S min. - max. [mm]		
TW 20	23	26	75	15	M 20 x 1	3,0 - 15,0	4,0 - 10,0	4,0 - 12,0
TW 20	23	26	75	15	M 20 x 1	16		

Double Cone



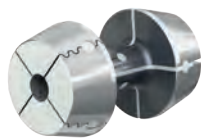
Options



GROOVED



PREMIUM BLUE



SEALING



CARBIDE COATING



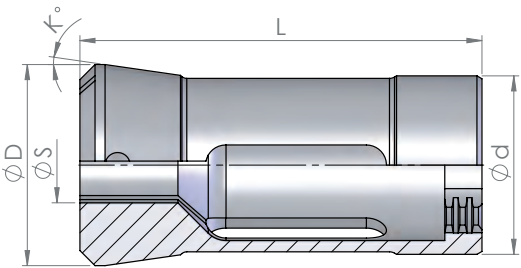
CARBIDE COATING
AND GROOVED

Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]
8731 E	28	35	60	15	8 - 25
8810 E	35	43	68	14	10 - 32

Collets

Sub Spindle Multi-Spindle

ETPU

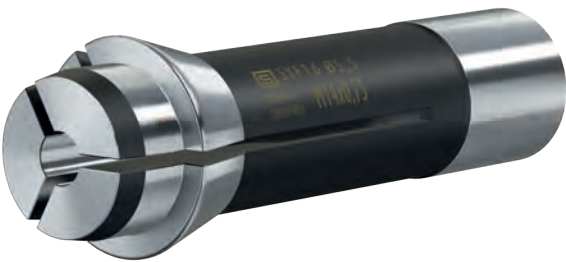
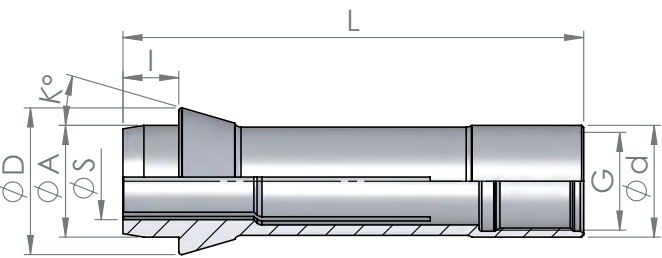


Options

THINLY SLOTTED CARBIDE COATING L+Q GROOVES PREMIUM BLUE GROOVED
S-SLOT SPECIAL PROFILES SUPERGRIP UP SEALING

Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S max. [mm]		
9012 ETPU	28	32	73	8	24,0	17,0	21,0
9039 ETPU	35,5	40	75	8	32,0	22,0	27,0

SYF

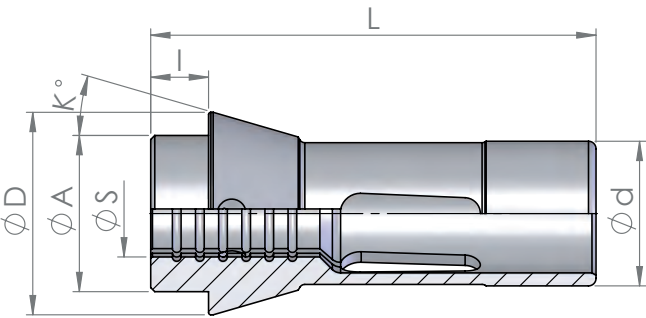


Options

ALUMINUM INSERTS REINFORCED SMOOTH CARBIDE COATING CARBIDE INSERTS PLASTIC INSERTS
L+Q GROOVES S-SLOT SUPERGRIP SEALING

Item	ø d [mm]	ø D [mm]	ø A [mm]	Length l [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]		
SYF 16 M14x0,75	16	21	16	8	66	16	0,5 - 13,0	2,0 - 9,0	2,0 - 11,0
SYF 16 M14x0,75	16	21	18	8	66	16	12,0 - 16,0		

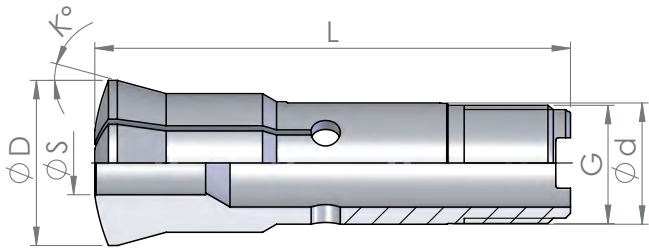
F37



Item	ø d [mm]	ø D [mm]	ø A [mm]	Length l [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]		
F 37 TF 37 1536 E	37	47	40	10	92	16	1,0 - 32,0	2,0 - 22,5	2,0 - 27,0

Draw-in Collets

Hydromat/Collets for Roundtable Machine



Collets for roundtable machines

Options



BAYONETTE

SQUARE HEXAGONAL S-SLOT



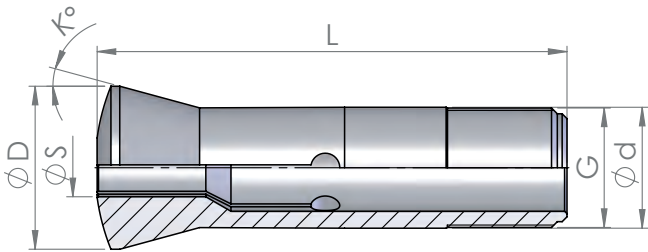
SPECIAL PROFILE



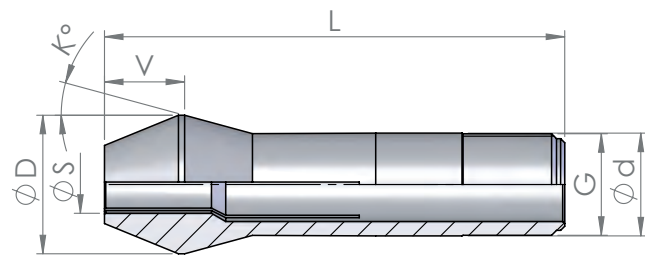
BAR FEED COLLET

Item	ø d [mm]	ø D [mm]	Length L [mm]	Thread G	Cone K [degree]	Clamping Diameter S min. - max. [mm]			Stepped Bore
SHW 20	20	26,3	96,5	Ø 19,7 x 1,666 45° / 5°	15	1,0 - 20,0	2,0 - 10,0	2,0 - 12,0	a.A.
SHW 25	25	33,7	97,6	Ø 24,7 x 1,693 45° / 5°	15	3,0 - 25,0	3,0 - 12,0	3,0 - 15,0	a.A.
SHW 25QC	25	33,7	97,6	Bayonette	15	3,0 - 25,0	3,0 - 12,0	3,0 - 15,0	a.A.
SHB 32	32	40	106	Ø 29,7 x 1,693 45° / 5°	15	3,0 - 28,0	3,0 - 19,0	3,0 - 24,0	a.A.
SHB 32 QC	32	40	106	Bayonette	15	3,0 - 28,0	3,0 - 19,0	3,0 - 24,0	a.A.
SHB 32 / 45	32	53	122	Ø 29,7 x 1,693 45°/5°	15	3,0 - 41,0	3,0 - 29,0	3,0 - 35,0	a.A.
SHB 45	45	53	115	M 42 x 1,5	15	3,0 - 41,0	3,0 - 29,0	3,0 - 35,0	a.A.
SHB 45 QC	45	53	116,5	Bayonette	15	3,0 - 41,0	3,0 - 29,0	3,0 - 35,0	a.A.
SHB 45 / 60	45	68	a.A.	M 42 x 1,5	15	a.A.	a.A.	a.A.	a.A.

SW & B

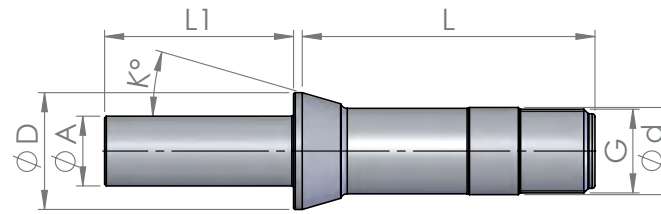


Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Thread G	Clamping Diameter S min. - max. [mm]			Stepped Bore
SW 12 80-2 318 E	12	16	46	15	Ø 11,75 x 1,25 45° / 5°	0,5 - 8,0	a.A.	a.A.	
SW 12 80-2 318 E	12	16	46	15	Ø 11,75 x 1,25 45° / 5°	8,01-12,5	a.A.	a.A.	a.A.
SW 15 80-3 321 E	15	20,2	58,3	15	Ø 14,75 x 1,25 45° / 5°	0,5 - 10,5	a.A.	a.A.	
SW 15 80-3 321 E	15	20,2	58,3	15	Ø 14,75 x 1,25 45° / 5°	10,51 - 16,0	a.A.	a.A.	a.A.
SW 20 80-4 349 E	20	26,3	73	15	Ø 19,7 x 1,666 45° / 5°	0,5 - 14,5	2,0 - 10,0	2,0 - 12,0	
SW 20 80-4 349 E	20	26,3	73	15	Ø 19,7 x 1,666 45° / 5°	14,51-23,0	a.A.	a.A.	a.A.
SW 25 80-5 364 E	25	33,7	97,6	15	Ø 24,7 x 1,693 45° / 5°	0,5 - 18,0	2,0 - 12,5	2,0 - 15,5	
SW 25 80-5 364 E	25	33,7	97,6	15	Ø 24,7 x 1,693 45° / 5°	18,01-29,0	a.A.	a.A.	a.A.
B 32 72-65	32	40	106	15	Ø 29,7 x 1,693 45° / 5°	1,0 - 24,0	3,0 - 16,5	3,0 - 20,5	
B 32 72-65	32	40	106	15	Ø 29,7 x 1,693 45° / 5°	24,01-32,0	a.A.	a.A.	a.A.
B 45 72-199	45	53	115	15	M 42 x 1,5	5,0 - 36,0	5,0 - 25,5	5,0 - 31,0	
B 45 72-199	45	53	115	15	M 42 x 1,5	36,01-45,0	a.A.	a.A.	a.A.



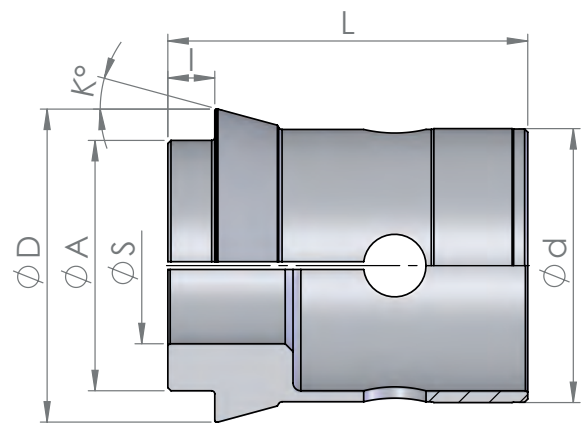
Item	Ø d [mm]	Ø D [mm]	Long nose Length V [mm]	Length L [mm]	Cone K [degree]	Thread G	Clamping Diameter S min. - max. [mm]			Stepped Bore
										
SW 12	12	16	8,8	52	15	Ø 11,75 x 1,25 45° / 5°	0,5 - 8,0	a.A.	a.A.	
SW 12	12	16	8,8	52	15	Ø 11,75 x 1,25 45° / 5°	8,01-10,0	a.A.	a.A.	a.A.
SW 15 321 E	15	20,2	12	67	15	Ø 14,75 x 1,25 45° / 5°	0,5 - 10,5	a.A.	a.A.	
SW 15 321 E	15	20,2	12	67	15	Ø 14,75 x 1,25 45° / 5°	10,51-12,5	a.A.	a.A.	a.A.
SW 20 349 E	20	26,3	15,5	84,5	15	Ø 19,7 x 1,666 45° / 5°	0,5 - 14,5	a.A.	a.A.	
SW 20 349 E	20	26,3	15,5	84,5	15	Ø 19,7 x 1,666 45° / 5°	14,51-16,0	a.A.	a.A.	a.A.
SW 25 364 E	25	33,7	19,5	112	15	Ø 24,7 x 1,693 45° / 5°	1,0 - 18,0	a.A.	a.A.	
SW 25 364 E	25	33,7	19,5	112	15	Ø 24,7 x 1,693 45° / 5°	18,01-25,0	a.A.	a.A.	a.A.
B 32	32	40	24	124	15	Ø 29,7 x 1,693 45° / 5°	1,0 - 24,0	a.A.	a.A.	
B 32	32	40	24	124	15	Ø 29,7 x 1,693 45° / 5°	24,01-28,0	a.A.	a.A.	a.A.
B32 / 45	32	53	32,5	148,5	15	Ø 29,7 x 1,693 45° / 5°	5,0 - 24,0	a.A.	a.A.	
B32 / 45	32	53	32,5	148,5	15	Ø 29,7 x 1,693 45° / 5°	24,01-40,0	a.A.	a.A.	a.A.

Alignment Pins for Draw-in Collets



Item	Ø d [mm]	Ø D [mm]	Ø A [mm]	Length L1 [mm]	Length L [mm]	Cone K [degree]	Thread G
324 E	15	21,5	14	70	53	20	M 13 x 1
3409 E	20	28	17	100	90	8	Tr. 20 x 1,5
351 E	20	28	17	100	80	20	Tr.20 x 1,5
358 E	23	32	20	100	82	20	M 21 x 1
359 E	23	32	20	100	90	20	Tr. 23 x 1,5
363 E	25	33,5	21	100	84	16	M 23 x 1
366 E	28	36	22	100	102	18	Tr. 27 x 1/20"
367 E	28	38	22	100	100	20	Tr. 28 x 1,5
385 E	31,75	37,5	25	100	83	10	Outer: 31,45x1/20" Inner: 26,44x1,058
386 E	32	45	25	100	110	20	Tr. 32 x 1,5
666 E	25	35	21	100	59,5	20	M 25 x 1
K 20	20	28	17	100	80	20	Tr. 20 x 1,5
K 23	23	32	20	100	90	20	Tr. 23 x 1,5
K 32	32	45	25	100	110	20	Tr. 32 x 1,5
K 45	45	60	30	100	140	20	Tr. 45 x 2
KDT 38	58	70,3	30	100	99	15	M 50 x 1,5

Pick Up Collets



Item	ø d [mm]	ø D [mm]	ØA [mm]	Length l [mm]	Length L [mm]	Type	Clamping Diameter S min. - max. [mm]		
75 - 81.1410	Thread M 10 x 1	14	11	3	23	Gauthier	1,0 - 6,0	a.A.	a.A.
75 - 14.0498	Thread M 12 x 1	18	12	3	23	Gauthier	1,0 - 8,0	a.A.	a.A.
M 105	12	14,5	10,5	6	21	Strohm	1,0 - 8,5	a.A.	a.A.
M 105 Projection	12	14,5	10,5	Variable	Variable	Strohm	3,0 - 8,0	a.A.	a.A.
M 125	15	17	13	2	17	Strohm	1,0 - 10,0	a.A.	a.A.
M 125 Projection	15	17	13	Variable	Variable	Strohm	1,0 - 10,0	a.A.	a.A.
G 694 694285	16	19	13	2,5	22	Traub	1,0 - 10,0	a.A.	a.A.
M 205	24	28	22	6	36	Strohm	2,0 - 19,0	a.A.	a.A.
612	35	40	32	6	46	TNS 28	1,0 - 29,0	a.A.	a.A.
612 M enhanced shank	35	40	32	6	46	Manurhin K'MX	1,0 - 30,0	a.A.	a.A.
721	46	54,75	48	6	65	TNS 30 / 42	1,0 - 42,0	a.A.	a.A.
722	44,4	55	42	8,5	64		3,0 - 37,0	a.A.	a.A.
952	61,5	71,5	62	6	65	TNM 65	5,0 - 59,0	a.A.	a.A.

Special Collets

Over-grip Collets

This collet is commonly found in the production of screws and is used in medical technology (implants). The use of this collet is sensible when the diameter to be clamped is smaller than the over-gripping diameter. The maximal diameter to be overgripped should not be larger than 2mm, dependent on clamping length.



Offset-grip Collets

The prerequisite for this collet is that the axis of the counter spindle is movable in an X direction. By offset clamping, this collet has a lateral recess. By moving the spindle in the direction of the X-axis, the collet is positioned in a way that it can pass through the larger diameter in the direction of the Z-axis and then move back to its original position.



Exchangeable Inserts for Milling

These inserts make it possible to mill contours or profiles directly via the machine and therefore is very accurate.



Complex 3D Contour Collets

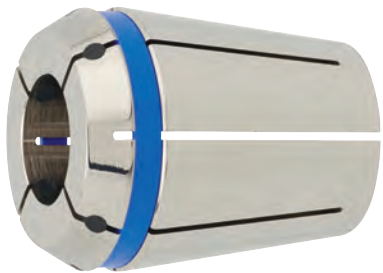
Complex contours can be made by sink or wire erosion, as well as hard milling into any kind of collet. This is possible even from the smallest diameters. The implant clamp shown here contains an obliquely milled contour that can be accurately gripped because of the orientation applied.



ER Collets

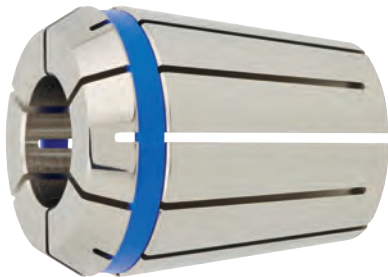
ER collets are used in the turret and serve for tool clamping. They can be used as tool holders for milling, drilling, tapping, reaming and grinding processes. Accessories such as union nuts and keys are also available.

Options



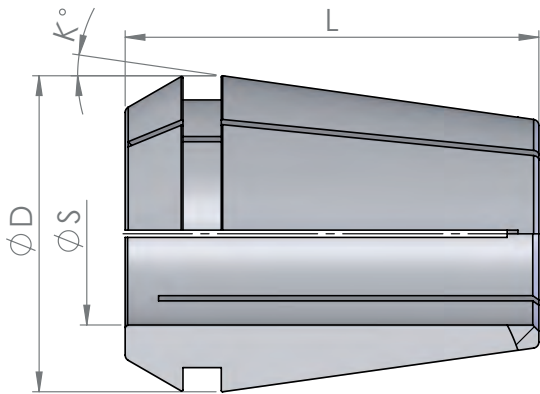
SEALED

- Concentricity and repeatability: averaged 5 µm
- Tension bridging h8; only the nominal size can be tensioned
- Special features: with a seal for internal cooling (can be used up to 120 bar), colored ring as identification mark (no sealing function)
- Note: Shafts with lateral surface are only limited in their use; the surface must be behind the rubber stopper to achieve a seal



UP-VERSION

- Concentricity and repeatability: averaged 3µm
- Special features: colored rings as identification mark (no sealing function)



Item	ø D [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]	degreeient [mm]
ER 8 4004 E	8,5	13,6	8	1,0 - 5,0	0,5
ER 11 4008 E	11,3	18	8	1,0 - 7,0	0,5
ER 16 426 E	17	27,5	8	1,0 - 10,0	0,5
ER 20 428 E	21	31,5	8	1,0 - 13	0,5
ER 25 430 E	26	34	8	1,0 - 16,0	0,5
ER 32 470 E	33	40	8	2,0 - 20,0	0,5
ER 40 472 E	41	46	8	3,0 - 26,0	0,5

Other dimensions upon request.

Clamping Fingers



Clamping fingers available for all lathes upon request.

Hainbuch Clamping Heads

This item is used for workpiece clamping in conventional and CNC lathes and is used directly in the spindle or in the collet chuck.

Options



- SMOOTH**
- Clamp without almost any marks
 - Clamp already finished contours
 - Concentricity of <0.01 mm possible
 - Easy to set-up, full passage, parallel tension, optimum power transmission, high rigidity and holding power as well as low wear

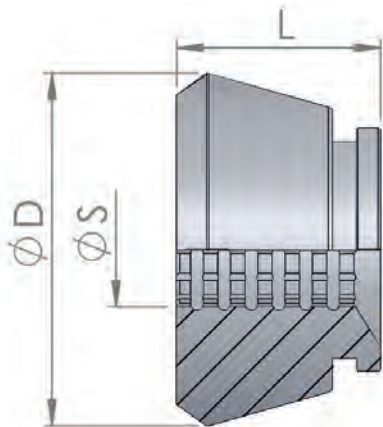


- L+Q GROOVES**
- Powerful clamping with clamping impressions
 - Clamping of raw material
 - Concentricity <0.01 mm possible
 - Easy to set-up, full passage, parallel tension
 - Optimum power transmission, high rigidity and holding power as well as low wear
 - Ribbed available on request



- RADIAL GROOVES**
- Powerful clamping with clamping impressions
 - Clamping of raw material

SQUARE AND HEXAGONAL ALSO AVAILABLE



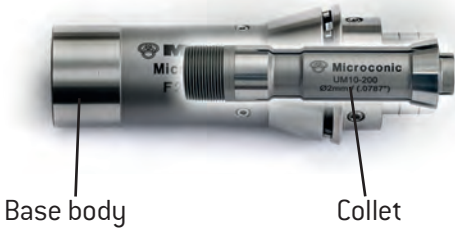
Item	ø D [mm]	Length L [mm]	Design	Clamping Diameter S min. - max. [mm]
SK 32	58	44	smooth	3,0 - 7,5
		47	with radial grooves	8,0 - 10,5
			with radial and axial grooves	11,0 - 32,0
SK 42	80	42	smooth	3,0 - 7,5
		47	with radial grooves	8,0 - 10,5
			with radial and axial grooves	11,0 - 42,0
SK 52	80	46	smooth	3,0 - 7,5
			with radial grooves	8,0 - 10,5
			with radial and axial grooves	11,0 - 52,0
SK 65	99,5	53	smooth	4,0 - 7,5
		58	with radial grooves	8,0 - 10,5
			with radial and axial grooves	11,0 - 65,0
SK 80	115	53	smooth	4,0 - 7,0
			with transverse grooves	8,0 - 10,0
			with longitudinal and transverse grooves	11,0 - 80,0

Base Body	41
Over-Grip Collets	42
Collets	51
Accessories	53





Masa Tool has developed the Microconic™ system specifically for holding workpieces from 0.15 mm to 10 mm (0.006” to 0.390”). The system has unsurpassed concentricity. It works with either draw-type or push-type standard collet systems that are in any machine. The over-grip collets of the Masa Microconic system open up to 4 mm (0.157”) diameter larger than the clamping diameter.

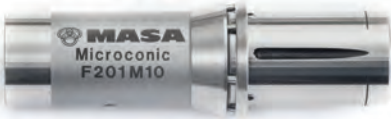
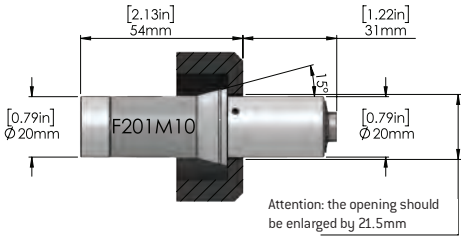


Micrograd™ DIAL WRENCH

Included with each cartridge, the Micrograd Dial Wrench is a dual-purpose tool used to install and adjust the collet in the cartridge. With dial graduations in either 0.02 mm (0.001 inch) increments, the closure of the Microconic collet can be set with calibrated precision using a common pin gage the diameter of the work piece. This setting is held internally by the cartridge and remains stable regardless of variations in the machine’s closing pressure. In fact, the setting can be recorded in the job setup plan and precisely repeated in a later setup or even on a different machine! No guesswork or skilled “feel” is needed.

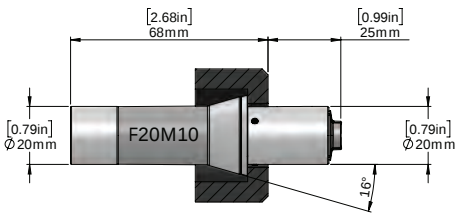
MACHINING CONDITION	MICROGRAD SETTING	
VERY LIGHT - thin walls, micro-size parts	0 – 0.02 mm	0 – .001”
LIGHT TO MODERATE - skim cutting, facing, ID chamfer, smaller parts	0.02 – 0.06 mm	.001 – .002”
MODERATE - turning, boring, small drilling, small threading	0.04 – 0.08 mm	.0015 – .003”
HEAVY - turning, milling, drilling, threading, cross-drilling	0.08 – 0.1 mm	.003 – .004”
EXTREME - large drilling, blind hole broaching, heavy milling	0.1+ mm	.004”+

Cartridges



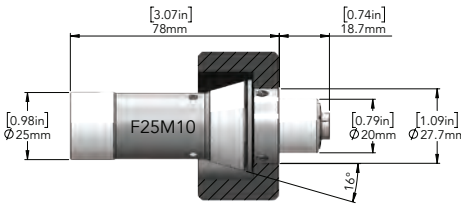
Order No.	Item	Cartridge for Collet
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122026	F201M10	136 E
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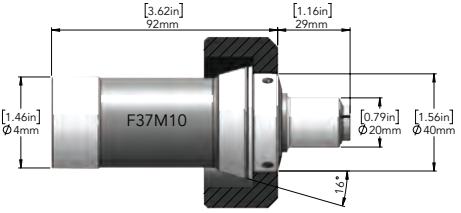
Order No.	Item	Cartridge for Collet
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122006	F20M10	138 E
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Order No.	Item	Cartridge for Collet
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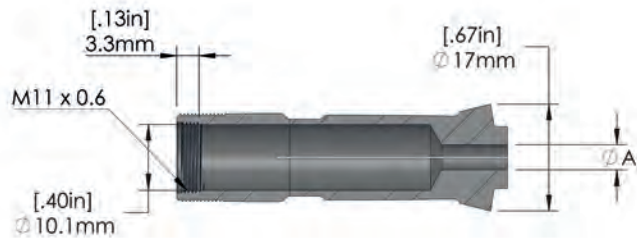
122041	F25M10	145 E
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Order No.	Item	Cartridge for Collet
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122027	F37M10	1536 E
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Every Cartridge is delivered with a Micrograd™ Dial Wrench



Part size ØA		Order No.	Item
mm	inch		
5.1 - 5.18	.2008-.2040	123194	UM10-515
5.15 - 5.23	.2027-.2059	123196	UM10-520
5.2 - 5.28	.2047-.2079	123198	UM10-525
5.25 - 5.33	.2067-.2099	123200	UM10-530
5.3 - 5.38	.2086-.2118	123202	UM10-535
5.35 - 5.43	.2106-.2138	123204	UM10-540
5.4 - 5.48	.2126-.2158	123206	UM10-545
5.45 - 5.53	.2145-.2177	123208	UM10-550
5.5 - 5.58	.2165-.2197	123210	UM10-555
5.55 - 5.63	.2185-.2217	123212	UM10-560
5.6 - 5.68	.2204-.2236	123214	UM10-565
5.65 - 5.73	.2224-.2256	123216	UM10-570
5.7 - 5.78	.2244-.2276	123218	UM10-575
5.75 - 5.83	.2263-.2295	123220	UM10-580
5.8 - 5.88	.2283-.2315	123222	UM10-585
5.85 - 5.93	.2303-.2335	123224	UM10-590
5.9 - 5.98	.2323-.2355	123226	UM10-595
5.95 - 6.03	.2342-.2374	123228	UM10-600
6 - 6.08	.2362-.2394	123230	UM10-605
6.05 - 6.13	.2382-.2414	123232	UM10-610
6.1 - 6.18	.2401-.2433	123234	UM10-615
6.15 - 6.23	.2421-.2453	123236	UM10-620
6.2 - 6.28	.2441-.2473	123238	UM10-625
6.25 - 6.33	.2460-.2492	123240	UM10-630
6.3 - 6.38	.2480-.2512	123242	UM10-635
6.35 - 6.43	.2500-.2532	123244	UM10-640
6.4 - 6.48	.2519-.2551	123246	UM10-645
6.45 - 6.53	.2539-.2571	123248	UM10-650
6.5 - 6.58	.2559-.2591	123250	UM10-655
6.55 - 6.63	.2578-.2610	123252	UM10-660
6.6 - 6.68	.2598-.2630	123254	UM10-665
6.65 - 6.73	.2618-.2650	123256	UM10-670
6.7 - 6.78	.2637-.2669	123258	UM10-675
6.75 - 6.83	.2657-.2689	123260	UM10-680
6.8 - 6.88	.2677-.2709	123262	UM10-685
6.85 - 6.93	.2697-.2729	123264	UM10-690
6.9 - 6.98	.2716-.2748	123266	UM10-695
6.95 - 7.03	.2736-.2768	123268	UM10-700
7 - 7.08	.2756-.2788	123270	UM10-705
7.05 - 7.13	.2775-.2807	123272	UM10-710
7.1 - 7.18	.2795-.2827	123274	UM10-715
7.15 - 7.23	.2815-.2847	123276	UM10-720
7.2 - 7.28	.2834-.2866	123278	UM10-725
7.25 - 7.33	.2854-.2886	123279	UM10-730
7.3 - 7.38	.2874-.2906	123280	UM10-735
7.35 - 7.43	.2893-.2925	123281	UM10-740
7.4 - 7.48	.2913-.2945	123282	UM10-745
7.45 - 7.53	.2933-.2965	123283	UM10-750
7.5 - 7.58	.2952-.2984	123284	UM10-755
7.55 - 7.63	.2972-.3004	123285	UM10-760

Part size ØA		Order No.	Item
mm	inch		
7.6 - 7.68	.2992-.3024	123286	UM10-765
7.65 - 7.73	.3011-.3043	123287	UM10-770
7.7 - 7.78	.3031-.3063	123288	UM10-775
7.75 - 7.83	.3051-.3083	123289	UM10-780
7.8 - 7.88	.3071-.3103	123290	UM10-785
7.85 - 7.93	.3090-.3122	123291	UM10-790
7.9 - 7.98	.3110-.3142	123292	UM10-795
7.95 - 8.03	.3130-.3162	123293	UM10-800
8 - 8.08	.3149-.3181	123294	UM10-805
8.05 - 8.13	.3169-.3201	123295	UM10-810
8.1 - 8.18	.3189-.3221	123296	UM10-815
8.15 - 8.23	.3208-.3240	123297	UM10-820
8.2 - 8.28	.3228-.3260	123298	UM10-825
8.25 - 8.33	.3248-.3280	123299	UM10-830
8.3 - 8.38	.3267-.3299	123300	UM10-835
8.35 - 8.43	.3287-.3319	123301	UM10-840
8.4 - 8.48	.3307-.3339	123302	UM10-845
8.45 - 8.53	.3326-.3358	123303	UM10-850
8.5 - 8.58	.3346-.3378	123304	UM10-855
8.55 - 8.63	.3366-.3398	123305	UM10-860
8.6 - 8.68	.3386-.3418	123306	UM10-865
8.65 - 8.73	.3405-.3437	123307	UM10-870
8.7 - 8.78	.3425-.3457	123308	UM10-875
8.75 - 8.83	.3445-.3477	123309	UM10-880
8.8 - 8.88	.3464-.3496	123310	UM10-885
8.85 - 8.93	.3484-.3516	123311	UM10-890
8.9 - 8.98	.3504-.3536	123312	UM10-895
8.95 - 9.03	.3523-.3555	123313	UM10-900
9 - 9.08	.3543-.3575	123314	UM10-905
9.05 - 9.13	.3563-.3595	123315	UM10-910
9.1 - 9.18	.3582-.3614	123316	UM10-915
9.15 - 9.23	.3602-.3634	123317	UM10-920
9.2 - 9.28	.3622-.3654	123318	UM10-925
9.25 - 9.33	.3641-.3673	123319	UM10-930
9.3 - 9.38	.3661-.3693	123320	UM10-935
9.35 - 9.43	.3681-.3713	123321	UM10-940
9.4 - 9.48	.3700-.3732	123322	UM10-945
9.45 - 9.53	.3720-.3752	123323	UM10-950
9.5 - 9.58	.3740-.3772	123324	UM10-955
9.55 - 9.63	.3760-.3792	123325	UM10-960
9.6 - 9.68	.3779-.3811	123326	UM10-965
9.65 - 9.73	.3799-.38.1	123327	UM10-970
9.7 - 9.78	.3819-.3851	123328	UM10-975
9.75 - 9.83	.3838-.3870	123329	UM10-980
9.8 - 9.88	.3858-.3890	123330	UM10-985
9.85 - 9.93	.3878-.3910	123331	UM10-990
9.9 - 9.98	.3897-.3929	123332	UM10-995
9.95 - 10.03	.3917-.3949	123333	UM10-1000

Accessories

Micrograd™ Dial Wrench



Microguide EGS™ Ejection Guide Sleeves



Each Microconic™ over-grip collet is supplied with a brass Microguide EGS ejection guide sleeve blank. The Microguide EGS sleeve can be bored, drilled or machined to match the part profile and support the part and guide it for reliable ejection into the part catcher. The ejection guide sleeves are available in stainless steel, brass and plastic.

Order No.	Item	
122002	Adjustment ring for the base body	CW10
122017	Hexagonal wrench 0,9 mm	HSD9
122003	Hexagonal wrench 1,5 mm	HSD15
122004	EGS ejection guide sleeve for over-grip collet, brass, for type W	EGS10-1
122018	EGS ejection guide sleeve for over-grip collet, brass, for type V	EGS10-2
122022	EGS ejection guide sleeve for over-grip collet, stainless steel, for type W	EGS10-3
122023	EGS ejection guide sleeve for over-grip collet, stainless steel, for type V	EGS10-4
122024	EGS ejection guide sleeve for over-grip collet, plastic, for type W	EGS10-5
122025	EGS ejection guide sleeve for over-grip collet, plastic, for type V	EGS10-6
122028	EGS ejection guide sleeve for over-grip collet, brass, for type T, -155-240	EGS10-7
122029	EGS ejection guide sleeve for over-grip collet, brass, for type T, -245-325	EGS10-8
122030	EGS ejection guide sleeve for over-grip collet, brass, for type T, -330-420	EGS10-9
122031	EGS ejection guide sleeve for over-grip collet, brass, for type T, -425-530	EGS10-10
122032	EGS ejection guide sleeve for over-grip collet, brass, for type T, -535-725	EGS10-11
122033	EGS ejection guide sleeve for over-grip collet, brass, with 15mm projection for UM10 Special pin screw M3x5mm for cartridge	EGS10-12
122020	Pellet screw M3x5 mm for cartridge F25M10	PSS1
122021	Pellet screw M2x3 mm for cartridge F20M10 and F201M10	PSS2



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Guide Bushes Options



- S-SLOT
- Ideal when a high pressure purge is used in the machine
 - No shavings and dirt deposits in the guide bush
 - Concentricity is better than standard options
 - Ideal for square and hexagonal materials
 - Consistent guidance
 - Guidance without marks on the material to be processed



- EXTENDED CARBIDE INSERT
- Guide surface up to 40 mm
 - Processing a larger sub-spectrum
 - High concentricity



- SB
- Ideal for materials prone to scratching
 - For materials with poor gliding properties such as titanium
 - Prevents welding between guide surface and workpiece (stick-slip effect)
 - Can be reground as often as needed until the maximum opening diameter, as the guide bush is made of solid materials



- BL COATING
- For titanium processing due to the better sliding properties
 - Ideal for smaller quantities and a cheaper alternative to the SB guide bush
 - Prevents welding of the material in the guide bush



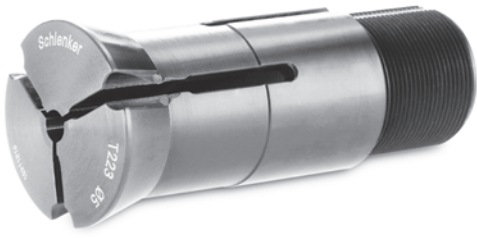
- UP
- Improved concentricity



- SEALING
- Improved dirt resistance



PREMIUM BLACK



- PERMAGLIS
- Special material with very good gliding properties
 - Prevents welding of the material in the guide bush
 - Alternative to the SB version
 - Especially suitable for medical technology



- LONG NOSE
- Serves to improve the stability of the workpiece when using driven tools by moving the guide surface towards the front.



- SPECIAL PROFILE
- Square, hexagonal or custom Profiles are possible

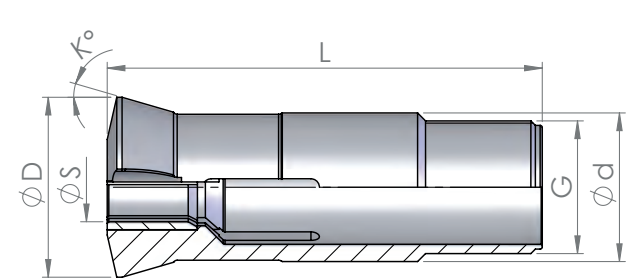


- CLOSED SLOTS
- Bushes are ground to the precise nominal diameter of the material to be processed
 - Adjusting the guide bush is no longer necessary



- EXTENDED GUIDE BUSH WITH ADDITIONAL BUSH
- For extra long guiding
 - Enables a longer retraction of the material
 - Guides along the full length of guide bush

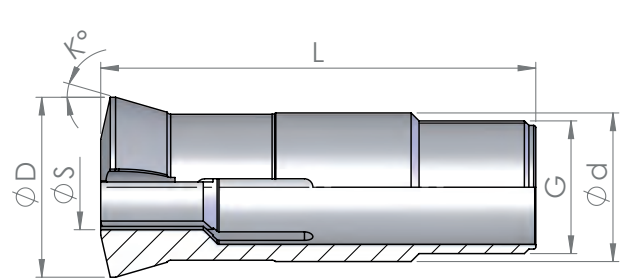
Adjustable Guide Bushes



Standard Carbide Lengths	
Ø 2,0 - Ø 4,4	13 mm
Ø 4,5 - Ø 5,9	14 mm
Ø 6,0 - Ø 6,9	15 mm
Ø 7,0 - Ø 10,4	16 mm
Ø 10,5 - Ø 14,4	18 mm
Ø 14,5 - Ø 18,9	19 mm
Ø 19,0 - Ø 20,9	22 mm
Ø 21,0 - Ø 22,4	24 mm
Ø 22,5 - Ø 32,0	25 mm

Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Thread G	Clamping Diameter S min. - max. [mm]		
I 351	9	12,5	44	16	M 8 x 0,75	0,8 - 4,5	a.A.	a.A.
I 352	11	14,5	53	16	M 10 x 0,8	1,0 - 7,0	a.A.	a.A.
F 3001	11	14,5	53	16	M 10 x 0,75	1,0 - 7,0	a.A.	a.A.
I 353	16	20,5	59	16	M 14 x 1	1,0 - 10,5	3,0 - 6,0	3,0 - 9,0
I 353 SR	16	29,8	56,8	16	M 14 x 1	1,0 - 10,5	3,0 - 6,0	3,0 - 9,0
F 853	18	22	60	30	M 16 x 1	1,0 - 12,0	3,0 - 8,0	4,0 - 11,0
SD 125 R	18	21,8	60	30	M 18 x 1	3,0 - 12,0	a.A.	a.A.
T 221	21	24	57,5	12	M 18 x 1	3,0 - 13,0	3,0 - 8,0	4,0 - 11,0
SNC 15	21	24	57,5	12,5	M 18 x 1	3,0 - 13,0	3,0 - 8,0	4,0 - 11,0
I 354	22	29	68	16	M 19 x 1	2,0 - 14,5	3,0 - 10,0	4,0 - 12,5
F 391	22	29	68	16	M 22 x 1	3,0 - 16,5	3,0 - 12,0	4,0 - 14,0
TSG 20 R	23	28	72	16	M 22 x 1	3,0 - 16,0	a.A.	a.A.
F 605	24	29,5	61	30	M 24 x 1	2,0 - 17,0	3,0 - 12,0	4,0 - 15,0
TD 26	26	29	77	16	M 25 x 1	2,0 - 19,0	3,0 - 13,5	4,0 - 16,0
T 223	28	34	82	16	M 25 x 1	3,0 - 20,0	3,0 - 14,5	3,0 - 17,0
T223	28	34	82	16	M 27 x 1	22		
I 357	28	38	81	30	M 25 x 1	3,0 - 20,0	3,0 - 14,5	4,0 - 17,0
I357	28	34	81	16	M 27 x 1	22		
B 230	30	35	59	16	M 30 x 1	3,0 - 23,0	a.A.	a.A.
T 227	34	41	87,5	10	M 34 x 1	3,0 - 26,0	3,0 - 18,0	4,0 - 23,0
T 229	42	49	82	16	M 40 x 1	4,0 - 32,0	3,0 - 25,0	4,0 - 27,0
TD 32	42	47,9	81,8	20	M 40 x 1	4,0 - 32,0	3,0 - 25,0	4,0 - 27,0
ML 36	44	51	82	16	M 42 x 1	10,0 - 35,0	a.A.	a.A.
FST 38	48	54	82	16	M 46 x 1	10,0 - 38,0	a.A.	a.A.
FSL 38	46	53	82	16	M 45 x 1	10,0 - 38,0	a.A.	a.A.
B 240	48	54	81	10	M 46 x 1	10,0 - 38,0	a.A.	a.A.
B 236	48	56	81	30	M 48 x 1,25	10,0 - 38,0	a.A.	a.A.

Adjustable Guide Bushes in SB



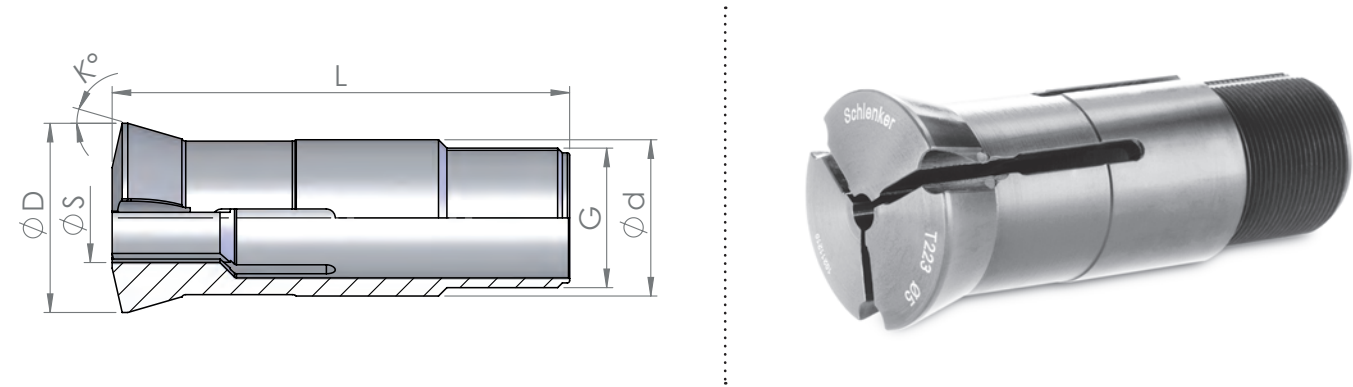
Guiding Diameter -Ø	Guiding Surface
1,0 - 4,9 mm	16 mm
5,0 - 6,9 mm	18 mm
7,0 - 9,9 mm	20 mm
10,0 - 14,9 mm	22 mm
15,0 - 18,9 mm	24 mm

Guiding Diameter -Ø	Guiding Surface
19,0 - 21,9 mm	26 mm
22,0 - 26,9 mm	28 mm
27,0 - 31,9 mm	30 mm
32,0 - max mm	32 mm



Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Thread G	Clamping Diameter S min. - max. [mm]		
I 351	9	12,5	44	16	M 8 x 0,75	0,8 - 5,0	2,0-3,5	2,0-4,0
I 352	11	14,5	53	16	M 10 x 0,8	1,0 - 7,5	2,0-5,0	2,0-6,0
F 3001	11	14,5	53	16	M 10 x 0,75	1,0 - 7,5	2,0-5,0	2,0-6,0
I 353	16	20,5	59	16	M 14 x 1	1,0 - 10,5	3,0 - 7,5	3,0 - 9,5
I 353 SR	16	19,8	56,8	16	M 14 x 1	1,0 - 10,5	3,0 - 6,0	3,0 - 9,0
F 853	18	22	60	30	M 16 x 1	1,0 - 12,0	3,0 - 8,5	4,0 - 10,5
SD 125 R	18	21,8	60	30	M 18 x 1	1,0 - 12,0	3,0 - 8,5	4,0 - 10,5
T 221	21	24	57,5	12	M 18 x 1	3,0 - 13,0	3,0 - 9,5	4,0 - 11,5
SNC 15	21	24	57,5	12	M 18 x 1	3,0 - 13,0	3,0 - 9,5	4,0 - 11,5
I 354	22	29	68	16	M 19 x 1	2,0 - 14,5	3,0 - 10,5	4,0 - 12,5
F 391	22	29	68	16	M 22 x 1	3,0 - 16,5	3,0 - 12,0	4,0 - 14,5
TSG 20 R	23	28	72	16	M 22 x 1	3,0 - 16,0	a.A.	a.A.
F 605	24	29,5	61	30	M 24 x 1	2,0 - 17,0	3,0 - 12,0	4,0 - 15,0
TD 26	26	29	77	16	M 25 x 1	2,0 - 19,0	3,0 - 13,5	4,0 - 16,5
T 223	28	34	82	16	M 25 x 1	3,0 - 21,0	3,0 - 15,0	3,0 - 18,5
T223	28	34	82	16	M 27 x 1	21,0-23,0	a.A.	a.A.
I 357	28	38	81	30	M 25 x 1	3,0 - 21,0	3,0 - 15,0	3,0 - 18,5
B 230	30	35	59	16	M 30 x 1	3,0 - 23,5	a.A.	a.A.
T 227	34	41	87,5	10	M 34 x 1	3,0 - 27,5	3,0 - 19,5	4,0 - 24,0
T 229	42	49	82	16	M 40 x 1	4,0 - 33,5	3,0 - 24,0	4,0 - 29,0
TD 32	42	47,9	81,8	20	M 40 x 1	4,0 - 32,5	3,0 - 23,0	4,0 - 28,5
ML 36	44	51	82	16	M 42 x 1	10,0 - 36,5	a.A.	a.A.
FST 38	48	54	82	16	M 46 x 1	10,0 - 39,5	a.A.	a.A.
FSL 38	46	53	82	16	M 45 x 1	10,0 - 38,0	a.A.	a.A.
B 240	48	54	81	10	M 46 x 1	10,0 - 39,5	a.A.	a.A.
B 236	48	56	81	30	M 48 x 1,25	10,0 - 42,5	a.A.	a.A.

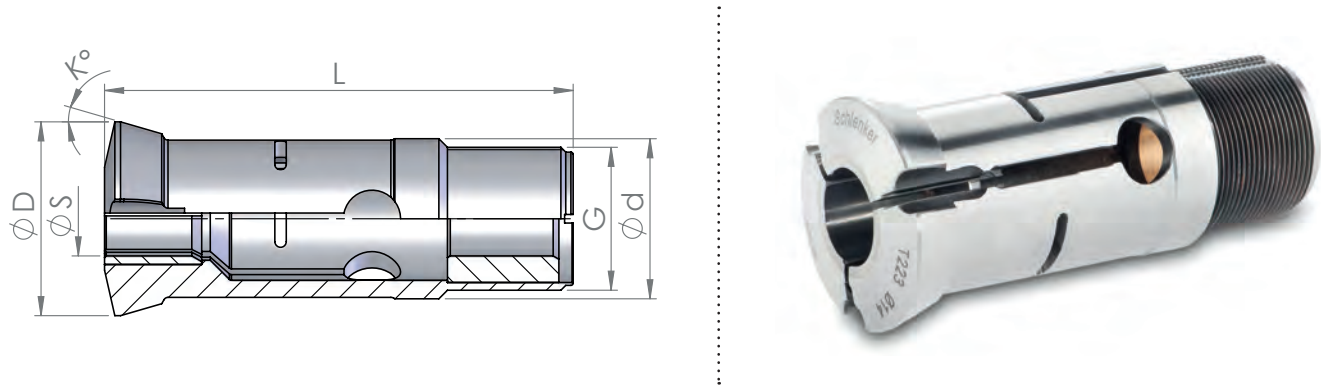
Adjustable Guide Bushes in Permagliss



Clamping Diameter -Ø	Clamping Surface	Clamping Diameter -Ø	Clamping Surface
1,0 - 4,9 mm	16 mm	19,0 - 21,9 mm	26 mm
5,0 - 6,9 mm	18 mm	22,0 - 26,9 mm	28 mm
7,0 - 9,9 mm	20 mm	27,0 - 31,9 mm	30 mm
10,0 - 14,9 mm	22 mm	32,0 - max mm	32 mm
15,0 - 18,9 mm	24 mm		

Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Thread G	Clamping Diameter S min. - max. [mm]		
I 351	9	12,5	44	16	M 8 x 0,75	0,8 - 5,0	2,0-3,5	2,0-4,0
I 352	11	14,5	53	16	M 10 x 0,8	1,0 - 7,5	2,0-5,0	2,0-6,0
F 3001	11	14,5	53	16	M 10 x 0,75	1,0 - 7,5	2,0-5,0	2,0-6,0
I 353	16	20,5	59	16	M 14 x 1	1,0 - 10,5	3,0 - 7,5	3,0 - 9,5
I 353 SR	16	19,8	56,8	16	M 14 x 1	1,0 - 10,5	3,0 - 6,0	3,0 - 9,0
F 853	18	22	60	30	M 16 x 1	1,0 - 12,0	3,0 - 8,5	4,0 - 10,5
SD 125 R	18	21,8	60	30	M 18 x 1	1,0 - 12,0	3,0 - 8,5	4,0 - 10,5
T 221	21	24	57,5	12	M 18 x 1	3,0 - 13,0	3,0 - 9,5	4,0 - 11,5
SNC 15	21	24	57,5	12	M 18 x 1	3,0 - 13,0	3,0 - 9,5	4,0 - 11,5
I 354	22	29	68	16	M 19 x 1	2,0 - 14,5	3,0 - 10,5	4,0 - 12,5
F 391	22	29	68	16	M 22 x 1	3,0 - 16,5	3,0 - 12,0	4,0 - 14,5
TSG 20 R	23	28	72	16	M 22 x 1	3,0 - 16,0	a.A.	a.A.
F 605	24	29,5	61	30	M 24 x 1	2,0 - 17,0	3,0 - 12,0	4,0 - 15,0
TD 26	26	29	77	16	M 25 x 1	2,0 - 19,0	3,0 - 13,5	4,0 - 16,5
T 223	28	34	82	16	M 25 x 1	3,0 - 21,0	3,0 - 15,0	3,0 - 18,5
T223	28	34	82	16	M 27 x 1	21,0-23,0	a.A.	a.A.
I 357	28	38	81	30	M 25 x 1	3,0 - 21,0	3,0 - 15,0	3,0 - 18,5
B 230	30	35	59	16	M 30 x 1	3,0 - 23,5	a.A.	a.A.
T 227	34	41	87,5	10	M 34 x 1	3,0 - 27,5	3,0 - 19,5	4,0 - 24,0
T 229	42	49	82	16	M 40 x 1	4,0 - 33,5	3,0 - 24,0	4,0 - 29,0
TD 32	42	47,9	81,8	20	M 40 x 1	4,0 - 32,5	3,0 - 23,0	4,0 - 28,5
ML 36	44	51	82	16	M 42 x 1	10,0 - 36,5	a.A.	a.A.
FST 38	48	54	82	16	M 46 x 1	10,0 - 39,5	a.A.	a.A.
FSL 38	46	53	82	16	M 45 x 1	10,0 - 38,0	a.A.	a.A.
B 240	48	54	81	10	M 46 x 1	10,0 - 39,5	a.A.	a.A.
B 236	48	56	81	30	M 48 x 1,25	10,0 - 42,5	a.A.	a.A.

Programmable Guide Bushes Traub

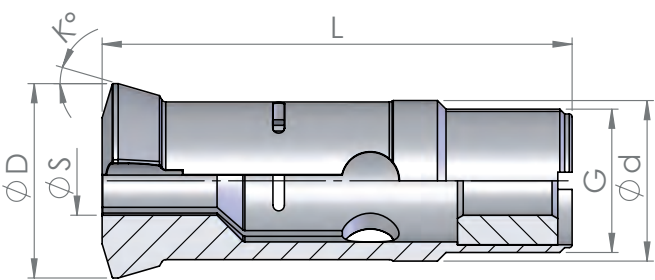


This programmable guide bush was designed specially form machines made by Index/Traub. The rod or guide diameter of the guide bush is set automatically by the machine. The Axfix guide bushes come standard in the UP version, with sealed slots and with a bush.

- Advantages:
- Optimum adaptation to different bar materials
 - Quick adjustment of the guide diameter
 - Material entrapment for milling, parting and grooving work possible if no Z movement of the main spindle takes place

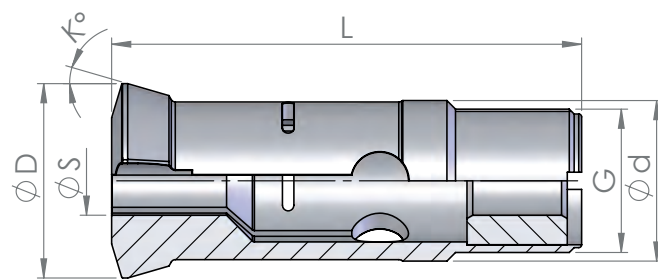
Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Thread G	Clamping Diameter S min. - max. [mm]	Traub Drawing No.
FTS 221	21	24	65,5	12	M 18 x 1	1,5 - 14,0	989 468
FTS 3402	27	30	67,5	12	M 24 x 1	3,0 - 16,0	989 517
T 223 AXFIX	28	34	81,5	16	M 25 x 1	3,0 - 21,0	902 860
T 227	34	41	87,5	10	M 34 x 1	3,0 - 15,0	986 761
T 229 AXFIX	42	49	81,2	16	M 40 x 1	4,0 - 32,0	907 820

Programmable Guide Bushes Traub in SB



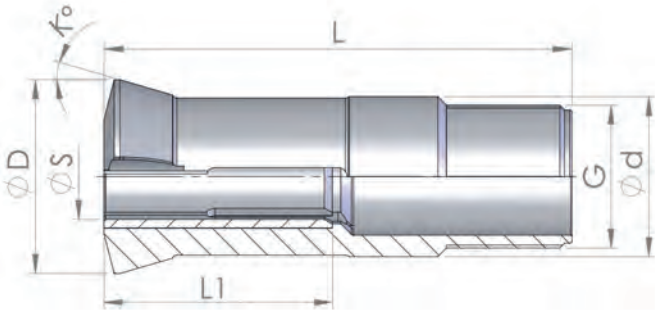
Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Thread G	Clamping Diameter S min. - max. [mm]			Traub Drawing No.
						●	■	⬡	
FTS 221	21	24	65,5	12	M 18 x 1	1,5 - 13,0	a.A.	a.A.	989 468
FTS 3402	27	30	67,5	12	M 24 x 1	3,0 - 18,5	a.A.	a.A.	989 517
T 223 AXFIX	28	34	81,5	16	M 25 x 1	3,0 - 21,0	a.A.	a.A.	902 860
T 227	34	41	87,5	10	M 34 x 1	3,0 - 27,5	a.A.	a.A.	986 761
T 229 AXFIX	42	49	81,2	16	M 40 x 1	4,0 - 33,5	a.A.	a.A.	907 820

Programmable Guide Bushes Traub in Permagliss



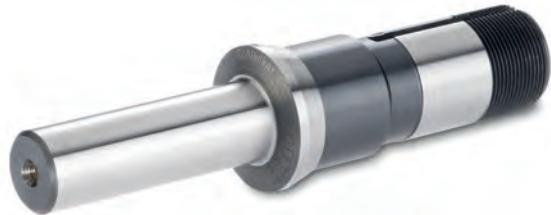
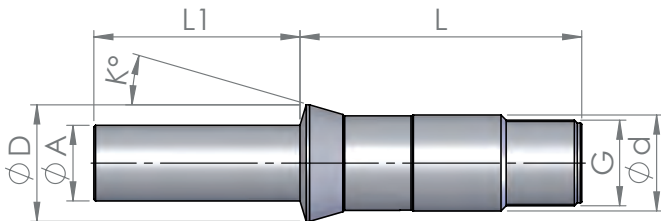
Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Thread G	Clamping Diameter S min. - max. [mm]			Traub Drawing No.
						●	■	⬡	
FTS 221	21	24	65,5	12	M 18 x 1	1,5 - 13,0	a.A.	a.A.	989 468
FTS 3402	27	30	67,5	12	M 24 x 1	3,0 - 18,5	a.A.	a.A.	989 517
T 223 AXFIX	28	34	81,5	16	M 25 x 1	3,0 - 21,0	a.A.	a.A.	902 860
T 227	34	41	87,5	10	M 34 x 1	3,0 - 27,5	a.A.	a.A.	986 761
T 229 AXFIX	42	49	81,2	16	M 40 x 1	4,0 - 33,5	a.A.	a.A.	907 820

Extended Guide Bushes



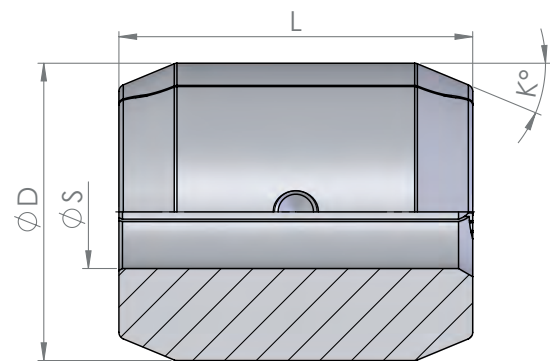
Item	ø d [mm]	ø D [mm]	Length L [mm]	Cone K [degree]	Thread G	Clamping Diameter S min. - max. [mm]			Carbide Length L1
I 351	9	12,5	44	16	M 8 x 0,75	0,8 - 5,5	a.A.	a.A.	20mm
I 352	11	14,5	53	16	M 10 x 0,8	1,0 - 7,0	a.A.	a.A.	25mm
F 3001	11	14,5	53	16	M 10 x 0,75	1,0 - 7,0	a.A.	a.A.	25mm
I 353	16	20,5	59	16	M 14 x 1	1,0 - 10,5	a.A.	a.A.	30mm
I 353 SR	16	19,8	56,8	16	M 14 x 1	1,0 - 10,5	a.A.	a.A.	30mm
F 853	18	22	60	30	M 16 x 1	1,0 - 12,0	a.A.	a.A.	30mm
SD 125 R	18	21,8	60	30	M 18 x 1	3,0 - 12,0	a.A.	a.A.	30mm
T 221	21	24	57,5	12	M 18 x 1	3,0 - 13,0	a.A.	a.A.	25mm
SNC 15	21	24	57,5	12,5	M 18 x 1	3,0 - 13,0	a.A.	a.A.	25mm
I 354	22	29	68	16	M 19 x 1	2,0 - 14,5	a.A.	a.A.	30/35mm
F 391	22	29	68	16	M 22 x 1	3,0 - 16,5	a.A.	a.A.	30/35mm
TSG 20 R	23	28	72	16	M 22 x 1	3,0 - 16,0	a.A.	a.A.	30/35mm
F 605	24	29,5	61	30	M 24 x 1	2,0 - 17,0	a.A.	a.A.	30/35mm
TD 26	26	29	77	16	M25 x 1	2,0 - 19,0	a.A.	a.A.	30/35/40mm
T 223	28	34	82	16	M 25 x 1	3,0 - 20,0	a.A.	a.A.	30/35/40mm
I 357	28	38	81	30	M 25 x 1	3,0 - 20,0	a.A.	a.A.	30/35/40mm
B 230	30	35	59	16	M 30 x 1	3,0 - 23,0	a.A.	a.A.	30/35/40mm
T 227	34	41	87,5	10	M 34 x 1	3,0 - 26,0	a.A.	a.A.	30/35/40mm
T 229	42	49	82	16	M 40 x 1	4,0 - 32,0	a.A.	a.A.	30/35/40mm
TD 32	42	47,9	81,8	20	M 40 x 1	4,0 - 32,0	a.A.	a.A.	30/35/40mm
ML 36	44	51	82	16	M 42 x 1	10,0 - 35,0	a.A.	a.A.	30/35/40mm
FST 38	48	54	82	16	M 46 x 1	10,0 - 38,0	a.A.	a.A.	30/35/40mm
FSL 38	46	53	82	16	M 45 x 1	10,0 - 38,0	a.A.	a.A.	30/35/40mm
B 240	48	54	81	10	M 46 x 1	10,0 - 38,0	a.A.	a.A.	30/35/40mm
B 236	48	56	81	30	M 48 x 1,25	10,0 - 38,0	a.A.	a.A.	30/35/40mm

Alignment Pins for Programmable and Adjustable Guide Bushes



Item	ø d [mm]	ø D [mm]	Length L [mm]	Length L1 [mm]	Cone K [degree]	Thread G	Ø A
I 351	9	12,5	44	50	16	M 8 x 0,75	8
I 352	11	14,5	53	50	16	M 10 x 0,8	10
F 3001	11	14,5	53	50	16	M 10 x 0,75	10
I 353	16	20,5	59	50	16	M 14 x 1	14
I 353 SR	16	19,8	56,8	50	16	M 14 x 1	14
F 853	18	22	60	70	30	M 16 x 1	16
SD 125 R	18	21,8	60	70	30	M 18 x 1	16
T 221	21	24	57,5	70	12	M 18 x 1	18
SNC 15	21	24	57,5	70	12,5	M 18 x 1	18
I 354	22	29	68	70	16	M 19 x 1	20
F 391	22	29	68	70	16	M 22 x 1	20
TSG 20 R	23	28	72	70	16	M 22 x 1	20
F 605	24	29,5	61	70	30	M 24 x 1	20
TD 26	26	29	77	70	16	M25 x 1	20
T 223	28	34	82	100	16	M 25 x 1	22
I 357	28	38	81	100	30	M 25 x 1	22
B 230	30	35	59	100	16	M 30 x 1	22
T 227	34	41	87,5	100	10	M 34 x 1	25
T 229	42	49	82	100	16	M 40 x 1	25
TD 32	42	47,9	81,8	100	20	M 40 x 1	25
ML 36	44	51	82	150	16	M 42 x 1	30
FST 38	48	54	82	150	16	M 46 x 1	30
FSL 38	46	53	82	150	16	M 45 x 1	30
B 240	48	54	81	150	10	M 46 x 1	30
B 236	48	56	81	150	30	M 48 x 1,25	30

SDK Guide Bushes in SB



Our one-piece SDK guide bush offers maximum application flexibility with its integrated spring pack, as well as the highest precision and best quality for demanding applications

The use of the SDK guide bush offers you following advantages:

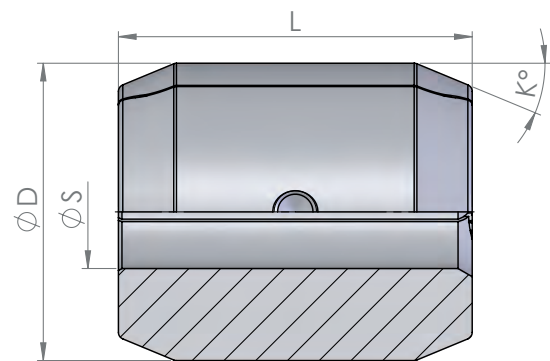
- Completely made in one piece
- High concentricity
- Can be ground to one millimeter
- Cost-saving: ground bushes can be reused
- Shavings and chips can not jam in the bush
- Bush closes completely and protects the material to be processed from pressure marks and dirt
- Adaptable to JBS and Tornos systems

Options

CARBIDE INSERT **SPECIAL PROFILE** **LONG NOSE**

Item	ØD [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]
SDK 24	24	35	22,5°	3,0 - 12,0
SDK 28	28	40	22,5°	3,0 - 20,0
SDK 33	33	40	22,5°	3,0 - 23,0
SDK 42	42	50	22,5°	3,0 - 32,0
SDK 48	48	60	22,5°	3,0 - 36,0

SDK Guide Bushes in Permagliss

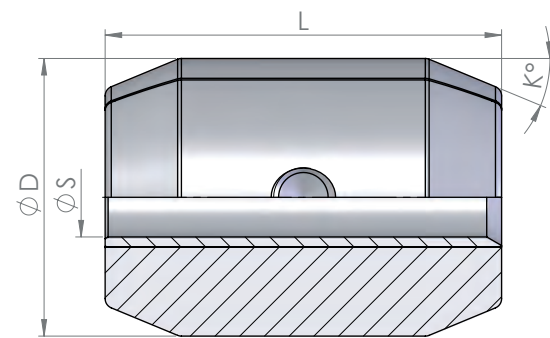


Options

CARBIDE INSERT **SPECIAL PROFILE** **LONG NOSE**

Item	ØD [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]
SDK 24	24	35	22,5°	3,0 - 12,0
SDK 28	28	40	22,5°	3,0 - 20,0
SDK 33	33	40	22,5°	3,0 - 23,0
SDK 42	42	50	22,5°	3,0 - 32,0
SDK 48	48	60	22,5°	3,0 - 36,0

SDK Guide Bushes with Carbide Insert

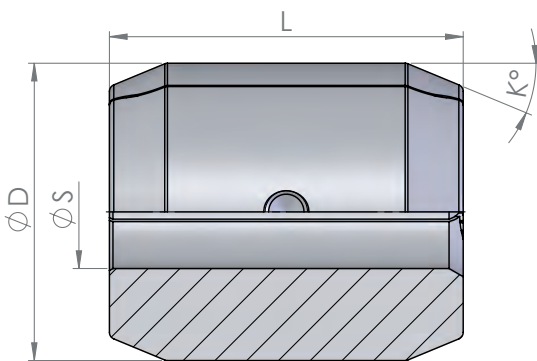


Options

CARBIDE INSERT
SPECIAL PROFILE
LONG NOSE

Item	ØD [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]
SDK 24	24	35	22,5°	a.A.
SDK 28	28	40	22,5°	3,0 - 15,0
SDK 33	33	40	22,5°	3,0 - 20,0
SDK 42	42	50	22,5°	3,0 - 26,0
SDK 48	48	60	22,5°	a.A.

SDK Guide Bushes Special Design Steel and BL Coating

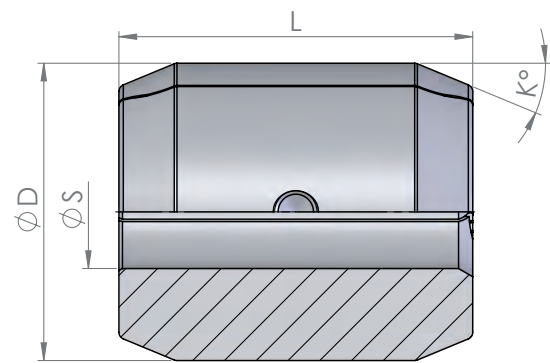


Options

CARBIDE INSERT
SPECIAL PROFILE
LONG NOSE

Item	ØD [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]
SDK 24	24	35	22,5°	3,0 - 12,0
SDK 28	28	40	22,5°	3,0 - 20,0
SDK 33	33	40	22,5°	3,0 - 23,0
SDK 42	42	50	22,5°	3,0 - 32,0
SDK 48	48	60	22,5°	3,0 - 36,0

SDK-T Guide Bushes in SB

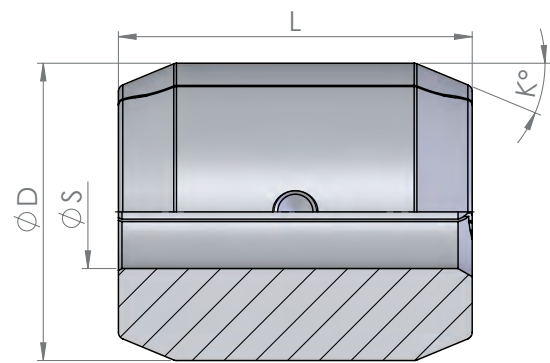


Options

CARBIDE INSERT SPECIAL PROFILE LONG NOSE

Item	ØD [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]
SDK-T 24	24	35	22,0°	3,0 - 12,0
SDK-T 28	28	40	22,0°	3,0 - 20,0
SDK-T 33	33	40	22,0°	3,0 - 23,0
SDK-T 42	42	50	22,0°	3,0 - 32,0
SDK-T 48	48	60	22,0°	3,0 - 36,0
SDK-T 51	51	60	22,0°	10,0 - 38,0

SDK-T Guide Bushes in Permagliss

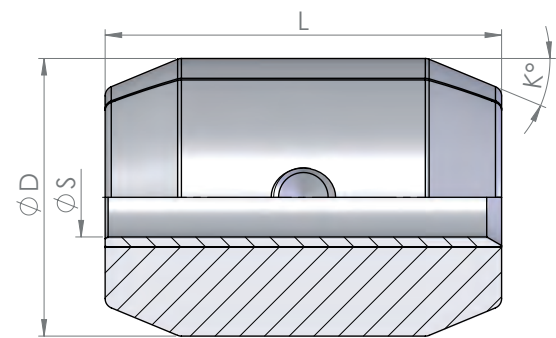


Options

CARBIDE INSERT SPECIAL PROFILE LONG NOSE

Item	ØD [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]
SDK-T 24	24	35	22,0°	a.A.
SDK-T 28	28	40	22,0°	3,0 - 15,0
SDK-T 33	33	40	22,0°	3,0 - 20,0
SDK-T 42	42	50	22,0°	3,0 - 26,0
SDK-T 48	48	60	22,0°	a.A.
SDK-T 51	51	60	22,0°	a.A.

SDK-T Guide Bushes with Carbide Insert

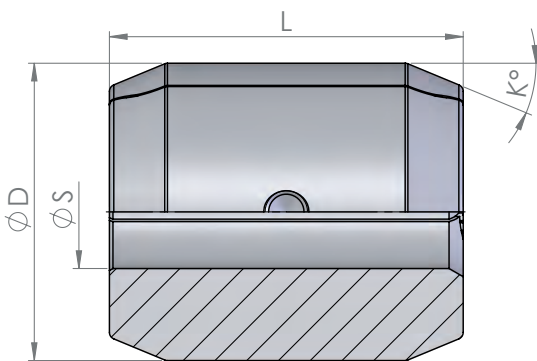


Options

CARBIDE INSERT SPECIAL PROFILE LONG NOSE

Item	ØD [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]
SDK-T 24	24	35	22,0°	a.A.
SDK-T 28	28	40	22,0°	3,0 - 15,0
SDK-T 33	33	40	22,0°	3,0 - 20,0
SDK-T 42	42	50	22,0°	3,0 - 26,0
SDK-T 48	48	60	22,0°	a.A.
SDK-T 51	51	60	22,0°	a.A.

SDK-T Guide Bushes Special Design Steel and BL Coating

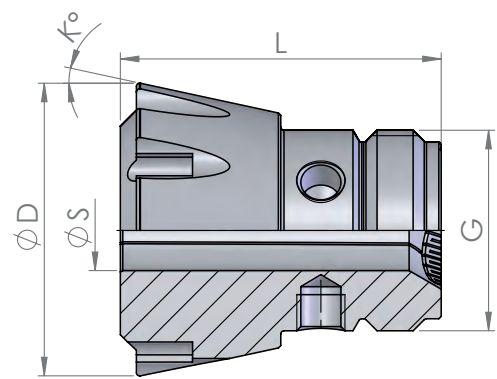


Options

CARBIDE INSERT SPECIAL PROFILE LONG NOSE

Item	ØD [mm]	Length L [mm]	Cone K [degree]	Clamping Diameter S min. - max. [mm]
SDK-T 24	24	35	22,0°	3,0 - 12,0
SDK-T 28	28	40	22,0°	3,0 - 20,0
SDK-T 33	33	40	22,0°	3,0 - 23,0
SDK-T 42	42	50	22,0°	3,0 - 32,0
SDK-T 48	48	60	22,0°	3,0 - 36,0
SDK-T 51	51	60	22,0°	10,0 - 38,0

SZZ Guide Bushes in SB



Our one-piece SZZ pull-through guide bush offers maximum flexibility in use thanks to the integrated spring pack and are specially designed for the JBS system.

The use of SZZ guide bushes offers you the following advantages:

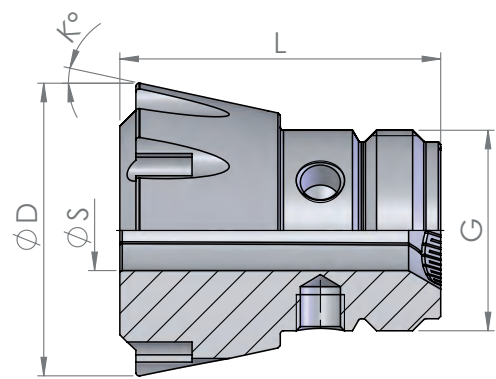
- Completely made in one piece
- High concentricity
- Shavings and chips can not jam in the bush
- Bush closes completely and protects the material to be processed from pressure marks and dirt

Options

CARBIDE INSERT **SPECIAL PROFILE** **LONG NOSE**

Item	ØD [mm]	Length L [mm]	Cone K [degree]	Ø S	Clamping Diameter S min. - max. [mm]
SZZ 26	26	35	12°	M 16 x 1,5	a.A.
SZZ 32,5	32,5	40	12°	M 21,5 x 2	3,0 - 12,0
SZZ 37	37	40	12°	M 25 x 2	3,0 - 16,0
SZZ 44	44	40	12	M 30 x 2	5,0 - 18,0
SZZ 54	54	50	12°	M 40 x 1,5	10,0 - 28,0
SZZ 59	59	60	12	M44x1,5	10,0 - 32,0

SZZ Guide Bushes in Permagliss

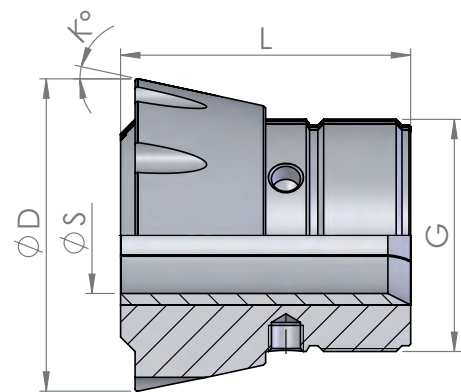


Options

CARBIDE INSERT **SPECIAL PROFILE** **LONG NOSE**

Item	ØD [mm]	Length L [mm]	Cone K [degree]	Ø S	Clamping Diameter S min. - max. [mm]
SZZ 26	26	35	12°	M 16 x 1,5	a.A.
SZZ 32,5	32,5	40	12°	M 21,5 x 2	3,0 - 12,0
SZZ 37	37	40	12°	M 25 x 2	3,0 - 16,0
SZZ 44	44	40	12	M 30 x 2	5,0 - 18,0
SZZ 54	54	50	12°	M 40 x 1,5	10,0 - 28,0
SZZ 59	59	60	12	M44x1,5	10,0 - 32,0

SZZ Guide Bushes with Carbide Insert

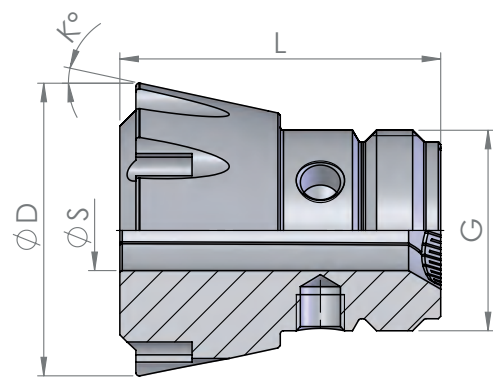


Options

CARBIDE INSERT SPECIAL PROFILE PROJECTION LONG NOSE

Item	ØD [mm]	Length L [mm]	Cone K [degree]	Ø S	Clamping Diameter S min. - max. [mm]
SZZ 26	26	35	12°	M 16 x 1,5	a.A.
SZZ 32,5	32,5	40	12°	M 21,5 x 2	a.A.
SZZ 37	37	40	12°	M 25 x 2	a.A.
SZZ 44	44	40	12	M 30 x 2	a.A.
SZZ 54	54	50	12°	M 40 x 1,5	a.A.
SZZ 59	59	60	12	M44x1,5	a.A.

SZZ Guide Bushes Special Design Steel and BL Coating



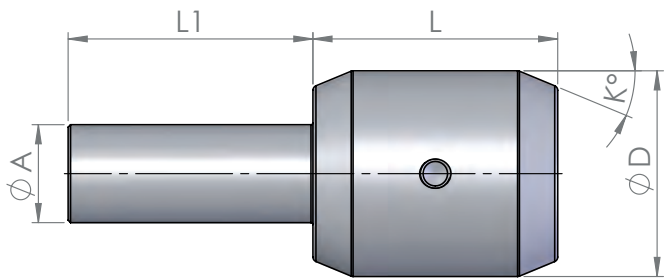
Options

CARBIDE INSERT SPECIAL PROFILE PROJECTION LONG NOSE

Item	ØD [mm]	Length L [mm]	Cone K [degree]	Ø S	Clamping Diameter S min. - max. [mm]
SZZ 26	26	35	12°	M 16 x 1,5	a.A.
SZZ 32,5	32,5	40	12°	M 21,5 x 2	3,0 - 12,0
SZZ 37	37	40	12°	M 25 x 2	3,0 - 16,0
SZZ 44	44	40	12	M 30 x 2	5,0 - 18,0
SZZ 54	54	50	12°	M 40 x 1,5	10,0 - 28,0
SZZ 59	59	60	12	M44x1,5	10,0 - 32,0

Alignment Pins for Flexible Guide Bushes

SDK



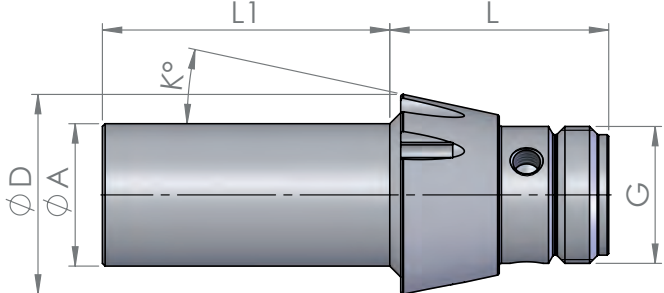
SDK

Item	ØD [mm]	Length L [mm]	Length L1 [mm]	Cone K [degree]	Ø A
SDK 24	24	35	80	22,5°	10
SDK 28	28	40	80	22,5°	15
SDK 33	33	40	80	22,5°	20
SDK 42	42	50	100	22,5°	25
SDK 48	48	60	150	22,5°	30

SDK-T

Item	ØD [mm]	Length L [mm]	Length L1 [mm]	Cone K [degree]	Ø A
SDK-T 24	24	35	80	22,0°	10
SDK-T 28	28	40	80	22,0°	15
SDK-T 51	51	60	150	22,0°	35
SDK-T 33	33	40	80	22,0°	20
SDK-T 42	42	50	100	22,0°	25
SDK-T 48	48	60	150	22,0°	30

SZZ



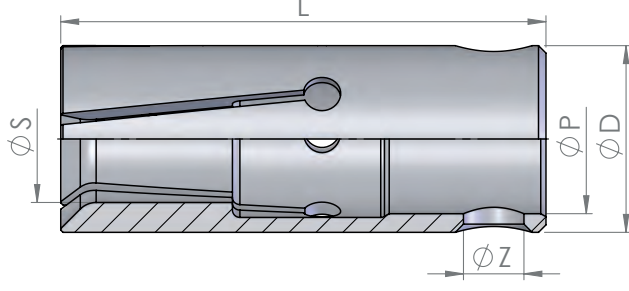
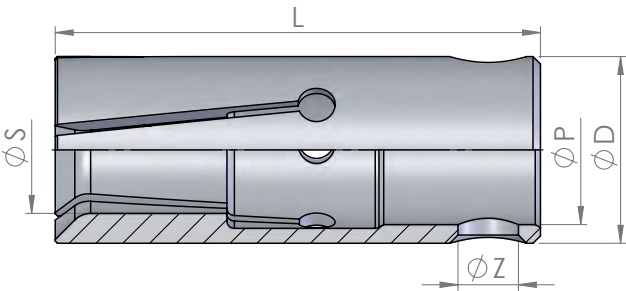
Item	ØD [mm]	Length L [mm]	Length L1 [mm]	Cone K [degree]	Ø S	Ø A
SZZ 26	26	35	80	12°	M 16 x 1,5	10
SZZ 32,5	32,2	40	80	12°	M 21,5 x 2	15
SZZ 37	37	40	80	12°	M 25 x 2	20
SZZ 44	44	40	80	12	M 30 x 2	25
SZZ 54	54	50	100	12°	M 40 x 1,5	30
SZZ 59	59	60	150	12	M 44x1,5	35

Bar Feed Collets



SHK Bar Feed Collets	82
TURBO Bar feed Collets	84
Crown Bar Feed Collets	86
IEMCA Bar Feed Collets	90
Cucchi Bar Feed Collets	92
Feeding collets 200	93
CAV Bar Feed Collets	94
Special Bar Feed Collets	95

SHK Bar Feed Collets



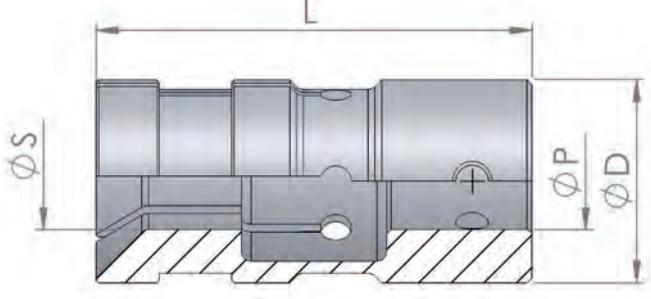
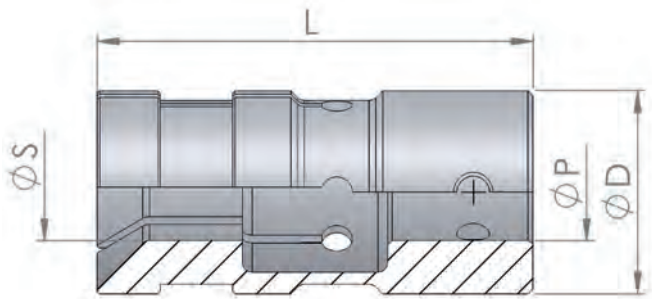
Options

HOLDING FORCE ADAPTATION CLOSED SLOTS PROFILE

Item	Slider Ø	ø D [mm]	ø Z [mm]	ø P [mm]	Length L [mm]	Clamping Diameter S min. - max. [mm]		
S 5 200 E	D 5	5 / 5,5		M 4	37	1,0 - 4,5		
S 7 208 E	D 7	7 / 7,5		M 5	37	1,0 - 6,2		
S 7 B Bechler	D 7	7		M 4	22	1,0 - 6,0		
S 10 210 E	D 10	10	4	7 H 7	40	1,0 - 10,0	3,0 - 4,0	3,0 - 6,0
S 10 B Bechler	D 10	10		M 5	26	2,0 - 10,0		
S 12 212 E	D 12	12	4	8 H 7	40	3,0 - 11,0	3,0 - 5,0	3,0 - 6,0
S 13 213 E	D 13	13	4	8 H 7	40	2,0 - 12,0	3,0 - 5,0	3,0 - 6,0
S 15 203 E	D 15	15	6	11 H 7	40	3,0 - 14,0	3,0 - 7,0	3,0 - 9,0
S 16 SHK 16	D 16	16	6	11 H 7	40	3,0 - 15,0	3,0 - 7,0	3,0 - 9,0
S 18 218 E	D 18	18	6	11 H 7	40	3,0 - 16,0	5,0 - 7,0	5,0 - 9,0
S 20 225 E	D 20	20	8	14 H 7	65	4,0 - 19,0	5,0 - 9,0	5,0 - 12,0

Item	Slider Ø	ø D [mm]	ø Z [mm]	ø P [mm]	Length L [mm]	Clamping Diameter S min. - max. [mm]		
S 21 SHK 21	D 21	21	8	14 H 7	65	15,0 - 20,0	a.A.	a.A.
S 22 SHK 22	D 22	22	8	14 H 7	65	4,0 - 21,0	a.A.	a.A.
S 23 SHK 23	D 23	23	8	14 H 7	65	5,0 - 22,0	a.A.	a.A.
S 25 222 E	D 25	25	8	20 H 7	65	4,0 - 24,0	5,0 - 14,0	5,0 - 17,0
S 28 227 E	D 28	28	8	20 H 7	65	3,0 - 26,5	5,0 - 14,0	5,0 - 17,0
S 30 SHK30	D 30	30	8	20H7	65	5,0 - 28,0	5,0 - 14,0	5,0 - 17,0
S 32 SHK32	D 32	32	8	20H7	65	5,0 - 30,0	5,0 - 14,0	5,0 - 17,0
S 34 SHK34	D 34	34	8	20H7	65	10,0 - 32,0	10,0 - 14,0	10,0 - 17,0
S 36 SHK36	D 36	36	8	20H7	65	8,0 - 33,0	8,0 - 14,0	8,0 - 17,0

TURBO Bar Feed Collets



Options

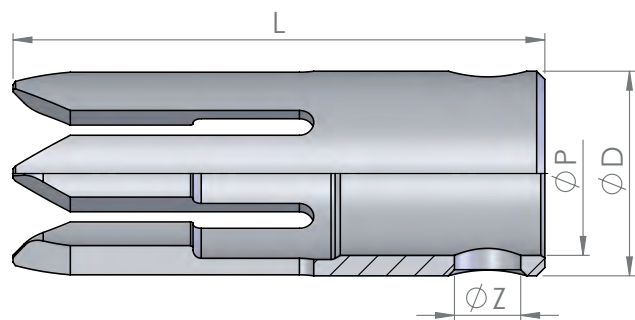
HOLDING FORCE ADAPTATION CLOSED SLOTS PROFILE

Item	Slider Ø	ø D [mm]	ø P [mm]	Length L [mm]	Clamping Diameter S min. - max. [mm]		
ST 25 SHT 25	D 25	25	20 H 7	90	4,0 - 22,0	5,0 - 14,0	5,0 - 17,0
ST 28 SHT 28	D 28	28	20 H 7	90	4,0 - 25,0	5,0 - 14,0	5,0 - 17,0
ST 30 SHT 30	D 30	30	20 H 7	90	5,0 - 28,0	5,0 - 14,0	5,0 - 17,0
ST 32 SHT 32	D 32	32	20 H 7	90	5,0 - 30,0	5,0 - 14,0	5,0 - 17,0
ST 34 SHT 34	D 34	34	20 H 7	90	5,0 - 32,0	10,0 - 14,0	10,0 - 17,0
ST 35 SHT 35	D 35	35	20 H 7	90	5,0 - 33,0	a.A.	a.A.
ST 36 SHT 36	D 36	36	20 H 7	90	6,0 - 34,0	6,0 - 14,0	6,0 - 17,0
ST 38 SHT 38	D 38	38	20 H 7	90	6,0 - 36,0	6,0 - 14,0	6,0 - 17,0
ST 40 SHT 40	D 40	40	20 H 7	90	10,0 - 38,0	10,0 - 21,0	10,0 - 26,0
ST 42 SHT 42	D 42	42	20 H 7	90	6,0 - 40,5	10,0 - 21,0	10,0 - 26,0
ST 44 SHT 44	D 44	44	20 H 7	90	10,0 - 42,0	a.A.	a.A.

Item	Slider Ø	ø D [mm]	ø P [mm]	Length L [mm]	Clamping Diameter S min. - max. [mm]		
ST 45 SHT 45	D 45	45	20 H 7	90	6,0 - 43,0	10,0 - 21,0	10,0 - 26,0
ST 50 SHT 50	D 50	50	20 H 7	90	6,0 - 48,0	10,0 - 27,0	10,0 - 33,0
ST 54 SHT 54	D 54	54	20 H 7	90	10,0 - 52,0	a.A.	a.A.
ST 58 SHT 58	D 58	58	20 H 7	90	15,0 - 56,0	a.A.	a.A.
ST 60 SHT 60	D 60	60	20 H 7	90	8,0 - 58,0	10,0 - 33,0	10,0 - 50,0
ST 63 SHT 63	D 63	63	20 H 7	90	15,0 - 61,0	a.A.	a.A.
ST 65 SHT 65	D 65	65	20 H 7	90	8,0 - 63,0	10,0 - 37,0	10,0 - 45,0
ST 70 SHT 70	D 70	70	20 H 7	90	12,0 - 66,0	a.A.	a.A.
ST 75 SHT 75	D 75	75	20 / 35 H 7	90	20,0 - 72,0	a.A.	a.A.
ST 80 SHT 80	D 80	80	35 H 7	90	20,0 - 76,0	a.A.	a.A.
ST 90 SHT 90	D 90	90	35 H 7	90	50,0 - 84,0	a.A.	a.A.
ST 100 SHT 100	D 100	100	35 H 7	110	60,0 - 95,0	a.A.	a.A.

Crown Bar Feed Collets

SHK Version

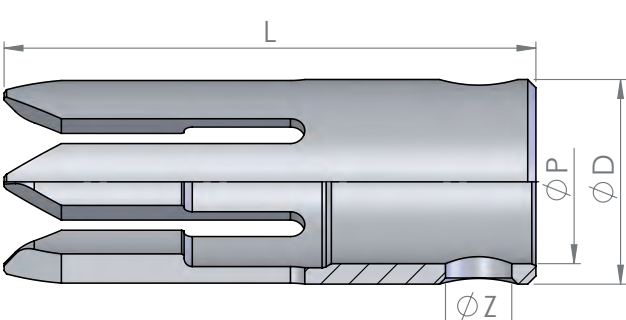


- The advantages:
- Complete use of the opening
 - Simple threading of the profile material
 - Wrench sizes that previously could not be clamped in the opening are now possible
 - Considerably increased lifetime

Option

HOLDING FORCE
ADAPTATION

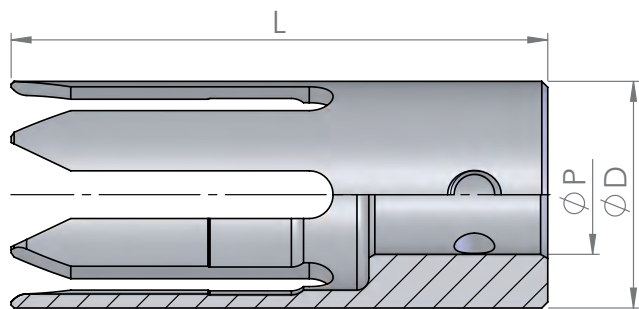
Item	Slider Ø	Ø D [mm]	Ø Z [mm]	Ø P [mm]	Length L [mm]	Clamping Diameter S min. - max. [mm]	
							
S 5 200 E	D 5	5 / 5,5		M 4	37		
S 7 208 E	D 7	7 / 7,5		M 5	37		
S 7 B Bechler	D 7	7		M 4	22		
S 10 210 E	D 10	10	4	7 H 7	40	5,0 - 7,0	7,0 - 9,0
S 10 B Bechler	D 10	10		M 5	26		
S 12 212 E	D 12	12	4	8 H 7	40	6,0 - 8,0	7,0 - 10,0
S 13 213 E	D 13	13	4	8 H 7	40	6,0 - 9,0	7,0 - 11,0
S 15 203 E	D 15	15	6	11 H 7	40	8,0 - 11,0	10,0 - 13,0
S 16 SHK 16	D 16	16	6	11 H 7	40	8,0 - 11,0	10,0 - 14,0
S 18 218 E	D 18	18	6	11 H 7	40	8,0 - 13,0	10,0 - 16,0
S 20 225 E	D 20	20	8	14 H 7	65	10,0 - 14,0	13,0 - 17,0



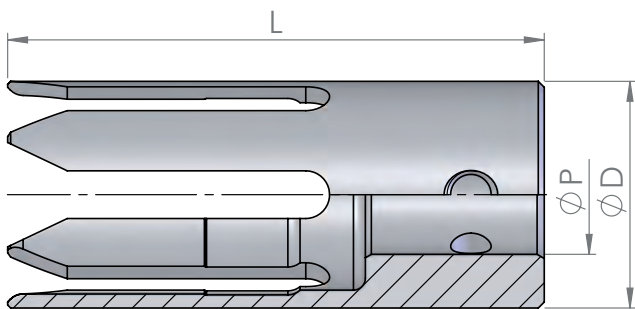
Item	Slider Ø	Ø D [mm]	Ø Z [mm]	Ø P [mm]	Length L [mm]	Clamping Diameter S min. - max. [mm]	
							
S 21 SHK 21	D 21	21	8	14 H 7	65	a.A.	a.A.
S 22 SHK 22	D 22	22	8	14 H 7	65	a.A.	a.A.
S 23 SHK 23	D 23	23	8	14 H 7	65	a.A.	a.A.
S 25 222 E	D 25	25	8	20 H 7	65	15,0 - 18,0	18,0 - 22,0
S 28 227 E	D 28	28	8	20 H 7	65	15,0 - 20,0	18,0 - 24,0
S 30 SHK30	D30	30	8	20 H 7	65	15,0 - 21,0	18,0 - 26,0
S 32 SHK32	D32	32	8	20 H 7	65	15,0 - 23,0	18,0 - 28,0
S 34 SHK34	D34	34	8	20 H 7	65	a.A.	a.A.
S 36 SHK36	D36	36	8	20 H 7	65	a.A.	a.A.

Further measurements upon request.

TURBO Version



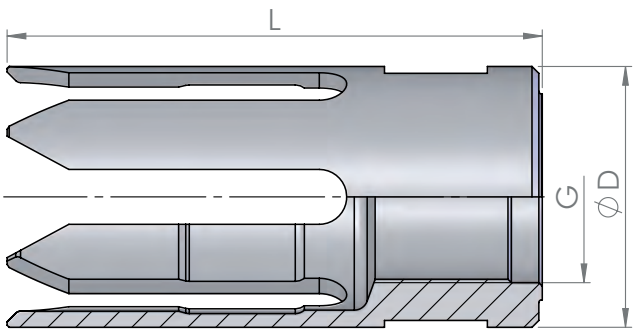
Item	Slider Ø	Ø D [mm]	Ø P [mm]	Length L [mm]	Clamping Diameter S min. - max. [mm]	
ST 25 SHT 25	D 25	25	20 H 7	90	15,0 - 18,0	18,0 - 22,0
ST 28 SHT 28	D 28	28	20 H 7	90	15,0 - 20,0	18,0 - 24,0
ST 30 SHT 30	D 30	30	20 H 7	90	15,0 - 21,0	18,0 - 26,0
ST 32 SHT 32	D 32	32	20 H 7	90	15,0 - 23,0	18,0 - 28,0
ST 34 SHT 34	D 34	34	20 H 7	90	a.A.	a.A.
ST 35 SHT 35	D 35	35	20 H 7	90	a.A.	a.A.
ST 36 SHT 36	D 36	36	20 H 7	90	a.A.	21,0 - 31,0
ST 38 SHT 38	D 38	38	20 H 7	90	a.A.	a.A.
ST 40 SHT 40	D 40	40	20 H 7	90	a.A.	a.A.
ST42 SHT 42	D 42	42	20 H 7	90	22,0 - 30,0	26,0 - 36,0
ST 44 SHT 44	D 44	44	20 H 7	90	a.A.	a.A.
ST 45 SHT 45	D 45	45	20 H 7	90	a.A.	a.A.
ST 50 SHT 50	D 50	50	20 H 7	90	28,0 - 35,0	34,0 - 43,0
ST 54 SHT 54	D 54	54	20 H 7	90	a.A.	a.A.
ST 58 SHT 58	D 58	58	20 H 7	90	a.A.	a.A.
ST 60 SHT 60	D 60	60	20 H 7	90	34,0 - 42,0	41,0 - 52,0
ST 63 SHT 63	D 63	63	20 H 7	90	a.A.	a.A.
ST 65 SHT 65	D 65	65	20 H 7	90	38,0 - 46,0	46,0 - 56,0
ST 70 SHT 70	D 70	70	20 H 7	90	a.A.	a.A.



Item	Slider Ø	Ø D [mm]	Ø P [mm]	Length L [mm]	Clamping Diameter S min. - max. [mm]	
ST 75 SHT 75	D 75	75	20 / 35 H 7	90	a.A.	a.A.
ST 80 SHT 80	D 80	80	35 H 7	90	a.A.	a.A.
ST 90 SHT 90	D 90	90	35 H 7	90	a.A.	a.A.
ST 100 SHT 100	D 100	100	35 H 7	110	a.A.	a.A.

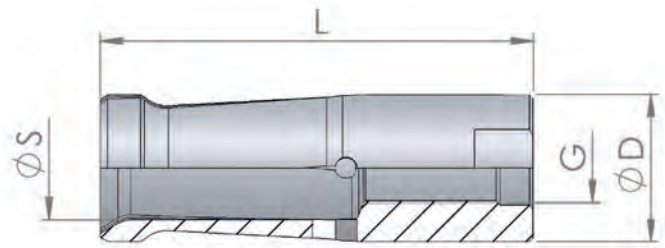
Further measurements upon request.

SE Version



Further measurements upo request.

IEMCA Bar Feed Collets



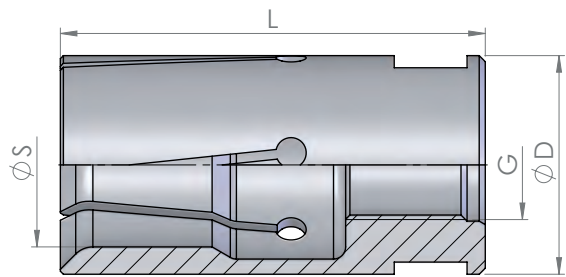
Options

HOLDING FORCE ADAPTATION CLOSED SLOTS PROFILE

Item	Slider Ø	ø D [mm]	Thread G	Length L [mm]	Clamping Diameter S min. - max. [mm]
SE 7,5	D 7,5	7,5	M 5 x 0,5	40	2,0 - 6,5
SE 10	D 10	10	M 6 x 0,75	40	2,0 - 8,0
SE 12	D 12	12	M 7 x 0,75	42	2,0 - 10,0
SE 15	D 15	15	M 8 x 1	42	4,0 - 13,0
SE 16	D 16	16	M 8 x 1	42	7,0 - 14,0
SE 18	D 18	18	M 8 x 1	42	12,5 - 16,0
SE 20	D 20	20	M 10 x 1	59	4,0 - 18,0
SE 22	D 22	20	M 10 x 1	59	14,0 - 20,0
SE 23	D 23	23	M 10 x 1	59	14,0 - 21,0
SE 25	D 25	25	M 10 x 1	59	17,0 - 23,0
SE 27	D 27	27	M 10 x 1	59	19,0 - 25,0
SE 30	D 30	30	M 10 x 1	59	3,0 - 28,0
SE 32	D 32	32	M 25 x 1,5	78	25,0 - 30,0
SE 34	D 34	34	M 25 x 1,5	78	8,0 - 32,0
SE 35	D 35	35	M 25 x 1,5	78	20,0 - 33,0
SE 37	D 37	37	M 25 x 1,5	78	31,0 - 35,0
SE 38	D 38	38	M 25 x 1,5	78	31,0 - 35,0
SE 40	D 40	40	M 25 x 1,5	78	20,0 - 37,0
SE 42	D 42	42	M 25 x 1,5	78	20,0 - 40,0
SE 45	D 45	45	M 25 x 1,5	80	20,0 - 42,0
SE 46	D 46	46	M 25 x 1,5	80	20,0 - 44,0
SE 50	D 50	50	M 25 x 1,5	80	44,0 - 47,0
SE 51	D 51	51	M 25 x 1,5	80	43,0 - 48,0
SE 55	D 55	55	M 25 x 1,5	80	20,0 - 54,0
SE 56	D 56	56	M 25 x 1,5	80	20,0 - 54,0
SE 58	D 58	58	M 25 x 1,5	80	20,0 - 54,0
SE 60	D 60	60	M 25 x 1,5	80	20,0 - 57,0
SE 65	D 65	65	M 25 x 1,5	80	56,0 - 63,0
SE 70	D 70	70	M 25 x 1,5	80	60,0 - 68,0
SE 75	D 75	75	M 25 x 1,5	80	66,0 - 72,0

THINK DIFFERENT
CREATE INNOVATIONS

Cucchi Bar Feed Collets

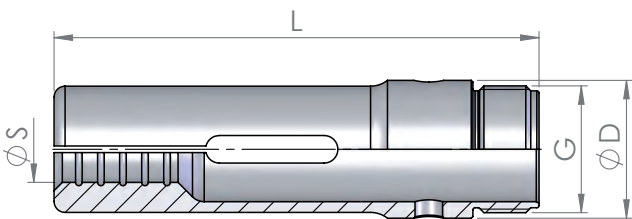


Options

HOLDING FORCE ADAPTATION CLOSED SLOTS PROFILE

Item	ø D [mm]	Thread G	Length L [mm]	Clamping Diameter S min. - max. [mm]
PB 28	28	M 18 x 1,5 L	65	10,0 - 26,0
PB 29	29	M 18 x 1,5 L	65	10,0 - 27,0
PB 30	30	M 18 x 1,5 L	65	10,0 - 28,0
PB 35	35	M 18 x 1,5 L	70	10,0 - 33,0
PB 36	36	M 18 x 1,5 L	70	10,0 - 34,0
PB 38	38	M 25 x 1,5 L	70	10,0 - 36,0
PB 41	41	M 25 x 1,5 L	70	20,0 - 39,0
PB 42	42	M 25 x 1,5 L	70	20,0 - 40,0
PB 60	59	M 30 x 1,5 L	80	20,0 - 51,0

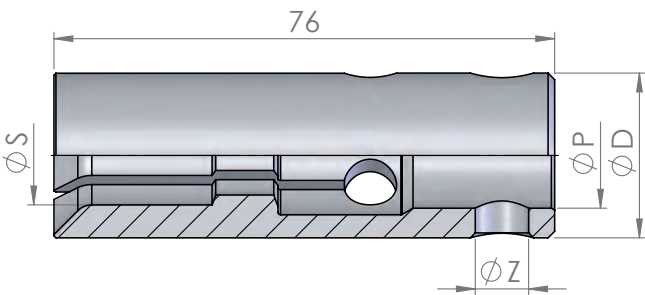
Feeding Collets 200



Item	ø D [mm]	Length L [mm]	Thread G	Clamping Diameter S max. [mm]		
207 E	18	70	M 16 x 1 L	12	8	10
217 E	21	70	M 20 x 1 L	16	11	15
220 E	24	85	M 22 x 1 L	18	13	16
236 E	30	95	M 28 x 1 L	24	16	21
237 E	31	90	M 29 x 1 L	25	18	22
254 E	42	116	M 40 x 1 L	36	25	31
273 E	60	140	M 58 x 1 L	52	36	45

Bar Feed Collets

CAV Bar Feed Collets



Options

HOLDING FORCE ADAPTATION CLOSED SLOTS PROFILE

Item	Slider Ø	ø D [mm]	ø P [mm]	Z (mm)	Length L [mm]	Clamping Diameter S min. - max. [mm]
CAV 7	7	7	M 6 x 1 L		40	1,5 - 5,9
CAV 10	10	10	M 6 x 1 L		40	2,0 - 8,5
CAV 12	12	12	M 6 x 1 L		40	8,5 - 10,5
CAV 15	15	15	10	6	55	3,0 - 14,0
CAV 17	17	17	10	6	55	14,0 - 16,0
CAV 19	19	19	10	6	55	16,0 - 17,0
CAV 21	21	21	10	6	55	17,0 - 19
CAV 25	25	25	16	8	76	5,0 - 22,0
CAV 32	32	25/32	16	8	76	15,5 - 29,5
CAV 34	34	25/34	16	8	76	19,0 - 31,0

Special Bar Feed Collets



Bar Feed Collets with Cooling Function

Special bar feed collets developed for the material feed of CNC lathes with integrated laser processing



Profile Bar Feed Collets

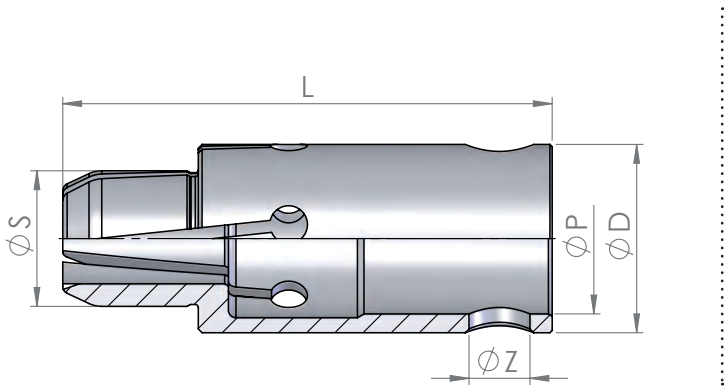
These bar feed collets are customized in form and holding force to work best with their material, which results in a reliable supply process of the profile material in the machine

Inside Clamping Sleeves



SHK Inside Clamping Sleeve	98
TURBO Inside Clamping Sleeve	100
Inside Clamping Sleeves for Index multi-spindle	102
Feeding Collets 9000	104
Front Ejectors VKK	105
Front Ejectors SKK	106

SHK Inside Clamping Sleeves



Options



HOLDING FORCE ADAPTATION
The holding forces can be increased or decreased according to customer requirements

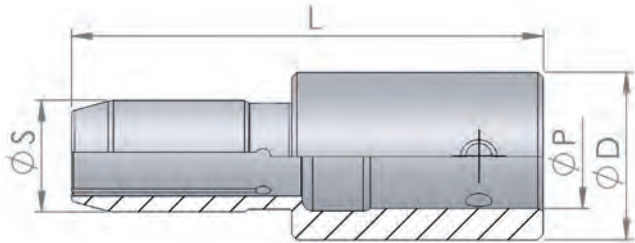
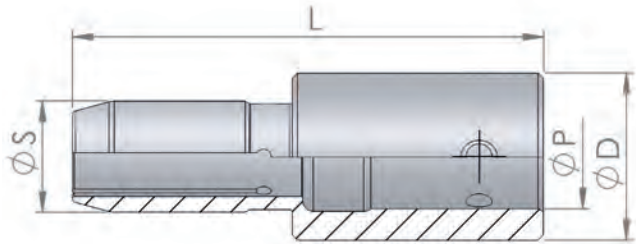


SEALING
Prevents oil and dirt from entering the loader

Item	ø D [mm]	ØZ [mm]	ø P [mm]	Length L [mm]	Clamping Diameter S min. - max. [mm]
SI 7 SHKI 7	7		M 5	37	3,5 - 6,0
SI 10 SHKI 10	10	4	7 H 7	40	3,5 - 9,0
S 12 SHKI 12	12	4	8 H 7	40	3,5 - 11,0
SI 15 SHKI 15	15	6	11 H 7	40	3,5 - 14,0
SI 16 SHKI 16	16	6	11 H 7	40	3,5 - 15,0
SI 18 SHKI 18	18	6	11 H 7	40	5,0 - 17,0
SI 20 SHKI 20	20	8	14 H 7	65	5,0 - 19,0
SI 25 SHKI 25	25	8	20 H 7	65	5,0 - 24,0
SI 28 - SI 50 SHKI 28 bis SHKI 50	28 - 50	8	20 H 7	65	



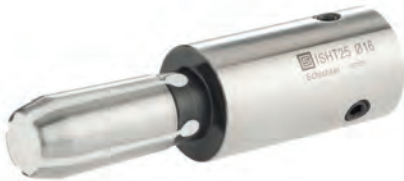
TURBO INSIDE CLAMPING SLEEVES



Options



HOLDING FORCE ADAPTATION
The holding forces can be increased or decreased according to customer requirements



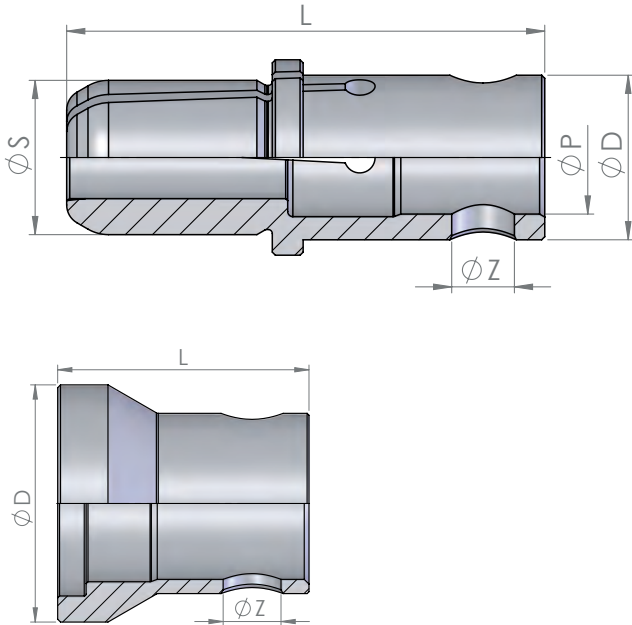
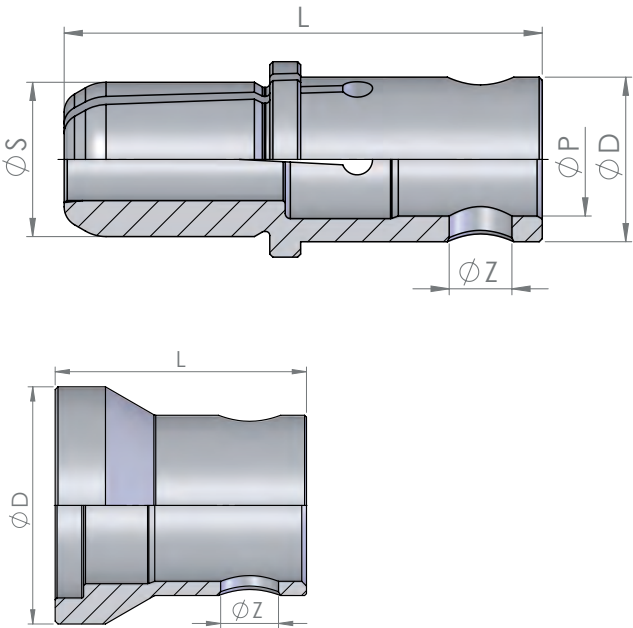
SEALING
Prevents oil and dirt from entering the loader

Item	Slider Ø	ø D [mm]	ø P [mm]	Length L [mm]	Clamping Diameter S min. - max. [mm]
STI 25 SHTI 25	D 25	25	20 H 7	90	6,0 - 24,0
STI 28 SHTI 28	D 28	28	20 H 7	90	6,0 - 27,0
STI 30 SHTI 30	D 30	30	20 H 7	90	6,0 - 29,0
STI 32 SHTI 32	D 32	32	20 H 7	90	6,0 - 31,0
STI 34 SHTI 34	D 34	34	20 H 7	90	6,0 - 33,0
STI 35 SHTI 35	D 35	35	20 H 7	90	6,0 - 34,0
STI 36 SHTI 36	D 36	36	20 H 7	90	10,0 - 35,0
STI 38 SHTI 38	D 38	38	20 H 7	90	10,0 - 37,0
STI 40 SHTI 40	D 40	40	20 H 7	90	10,0 - 39,0
STI 42 SHTI 42	D 42	42	20 H 7	90	10,0 - 41,0
STI 44 SHTI 44	D 44	44	20 H 7	90	10,0 - 43,0

Item	Slider Ø	ø D [mm]	ø P [mm]	Length L [mm]	Clamping Diameter S min. - max. [mm]
STI 45 SHTI 45	D 45	45	20 H 7	90	10,0 - 44,0
STI 50 SHTI 50	D 50	50	20 H 7	90	10,0 - 49,0
STI 54 SHTI 54	D 54	54	20 H 7	90	10,0 - 53,0
STI 58 SHTI 58	D 58	58	20 H 7	90	10,0 - 57,0
STI 60 SHTI 60	D 60	60	20 H 7	90	10,0 - 59,0
STI 63 SHTI 63	D 63	63	20 H 7	90	10,0 - 62,0
STI 65 SHTI 65	D 65	65	20 H 7	90	10,0 - 64,0
STI 70 SHTI 70	D 70	70	20 H 7	90	30,0 - 69,0
STI 75 SHTI 75	D 75	75	20 / 35 H 7	90	30,0 - 74,0
STI 80 SHTI 80	D 80	80	35 H 7	90	30,0 - 79,0
STI 90 SHTI 90	D 90	90	35 H 7	90	40,0 - 89,0
STI 100 SHTI 100	D 100	100	35 H 7	110	40,0 - 99,0

Inside Clamping Sleeve

Inside Clamping Sleeve for Index Multi-Spindle



Options



HOLDING FORCE ADAPTATION
The holding forces can be increased or decreased according to customer requirements



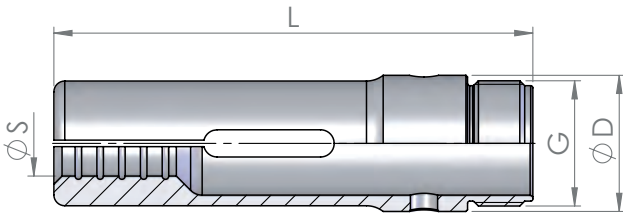
SEALING
Prevents oil and dirt from entering the loader

Item	Slider Ø		ø D [mm]	ØS [mm]	ØZ [mm]	ø P [mm]	Length L [mm]	Machine
S927434.1232	12	Clamping sleeve	10	8	4	8 H 7	45	MS 22 / MS 40
SA927435.XX31		Stop	13,0 - 23,0	-	4	-	32	-
S927535.1231	12	Clamping sleeve	10	8	4	8 H 7	45	MS 32
SA927536.XX31		Stop	13,0 - 18,0	-	4	-	32	-
S927434.1233	12	Clamping sleeve	10	8	4	8 H 7	46	MS 22 / MS 32 / MS 40
SA927435.XX32		Stop	13,0 - 23,0	-	4	-	26	-
S927535.1831	18	Clamping sleeve	16	15	6	11 H 7	45	MS 22 / MS 32 / MS 40
SA927536.XX31		Stop	19,0 - 25,0	-	6	-	32	-

Item	Slider Ø		ø D [mm]	ØS [mm]	ØZ [mm]	ø P [mm]	Length L [mm]	Machine
S927535.1841	18	Clamping sleeve	16	15	6	11 H 7	46,5	MS 22 / MS 32 / MS 40
SA927536.XX41		Stop	19,0 - 25,0	-	6	-	26,5	-
S927934.1832	18	Clamping sleeve	18	15	6	11 H 7	45	MS 52
SA927975.XX31		Stop	22,0 - 32,0	-	-	-	20	-
S927434.2332	23	Clamping sleeve	19	15	8	14 H 7	70	MS 40
SA927435.XX31		Stop	24,0 - 32,0	-	8	-	52	-
S927434.2333	23	Clamping sleeve	19	15	8	14 H 7	66,5	MS 40
SA927435.XX32		Stop	24,0 - 32,0	-	-	-	46,5	-
S927535.2531	25	Clamping sleeve	22	15	8	15 H 7	66,5	MS 32
SA927536.XX31		Stop	26,0 - 36,0	-	-	-	46,5	-
S927434.3232	32	Clamping sleeve	27	15	8	20 H 7	70	MS 40
SA927435.XX31		Stop	33,0 - 40,0	-	8	-	52	-
S927434.3233	32	Clamping sleeve	27	15	8	20 H 7	61	MS 40
SA927435.XX32		Stop	33,0 - 40,0	-	-	-	41	-
S927934.3232	32	Clamping sleeve	32	20	8	20 H 7	70	MS 52
SA927975.XX31		Stop	33,0 - 42,0	-	-	-	38	-
S927934.4232	42	Clamping sleeve	42	20	8	20 H 7	70	MS 52
SA927975.XX31		Stop	43,0 - 52,0	-	-	-	38	-
D18 IMS 52	18	-	18	15	6	11 H 7	45	-
D32 IMS 52	32	-	32	20	8	20 H 7	70	-
D42 IMS 52	42	-	42	20	8	20 H 7	70	-

Inside Clamping Sleeve

Feeding Collets 9000

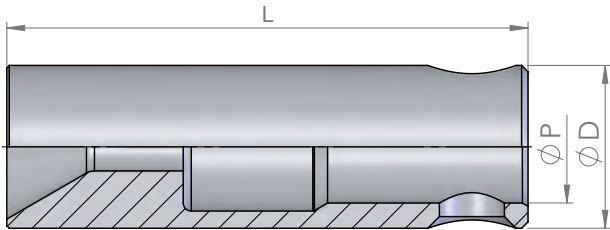


Item	ø D [mm]	Length L [mm]	Thread G	Clamping Diameter S max. [mm]		
9268 E	22	86	M 20 x 1 L	16	11	14
9265 E	22,8	98	M 20 x 0,75 R	16	11	14
9255 E	25	88	M 23 x 1	19	13	16
9258 E	25	90	M 24 x 1 L	20	14	17
9282 E	34,7	118	M 33 x 1,5	25	18	22
9319 E	41,8	130	M 38 x 1,5	32	23	28
9372 E	51	154	M 48 x 1,5	40	28	35

Front Ejectors VKK

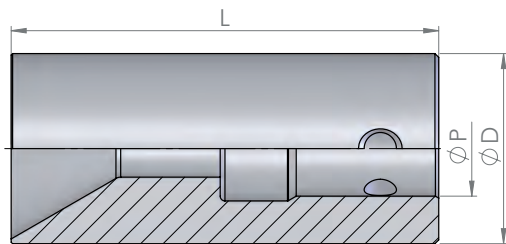


SHK



Item	ø D [mm]	ø P [mm]	Length L [mm]
VKK 10	10,3	7 H 7	40
VKK 12	12,3	8 H 7	40
VKK 13	13,3	8 H 7	40
VKK 14	14,3	8 H 7	40
VKK 15	15,3	11 H 7	40
VKK 16	16,3	11 H 7	40
VKK 17	17,3	11 H 7	40
VKK 18	18,3	11 H 7	40
VKK 20	20,3	14 H 7	65
VKK 22	22,3	14 H 7	65
VKK 24	24,3	14 H 7	65
VKK 25	25,3	20 H 7	65
VKK 26	26,3	20 H 7	65
VKK 28	28,3	20 H 7	65
VKK 30	30,3	20 H 7	65
VKK 31	31,3	20 H 7	65
VKK 32	32,3	20 H 7	65
VKK 34	34,3	20 H 7	65
VKK 35	35,3	20 H 7	65
VKK 36	36,3	20 H 7	65
VKK 38	38,3	20 H 7	65
VKK 40	40,3	20 H 7	65

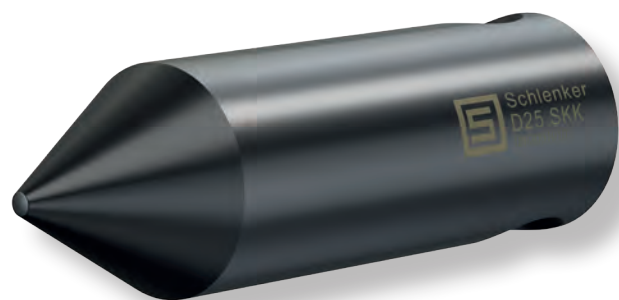
TURBO



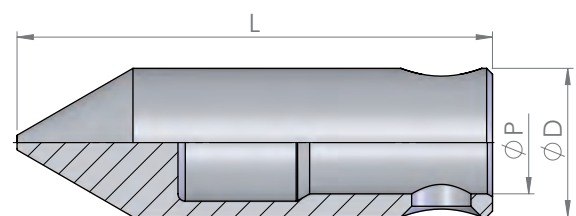
Item	ø D [mm]	ø P [mm]	Length L [mm]
VKK 25	25,3	20 H 7	90
VKK 26	26,3	20 H 7	90
VKK 28	28,3	20 H 7	90
VKK 30	30,3	20 H 7	90
VKK 31	31,3	20 H 7	90
VKK 32	32,3	20 H 7	90
VKK 34	34,3	20 H 7	90
VKK 35	35,3	20 H 7	90
VKK 36	36,3	20 H 7	90
VKK 38	38,3	20 H 7	90
VKK 40	40,3	20 H 7	90
VKK 41	41,3	20 H 7	90
VKK 42	42,3	20 H 7	90
VKK 44	44,3	20 H 7	90
VKK 45	45,3	20 H 7	90
VKK 46	46,3	20 H 7	90
VKK 50	50,3	20 H 7	90
VKK 51	51,3	20 H 7	90
VKK 55	55,3	20 H 7	90
VKK 60	60,3	20 H 7	90
VKK 65	65,3	20 H 7	90
VKK 67 – 100		a.A.	

Inside Clamping Sleeve

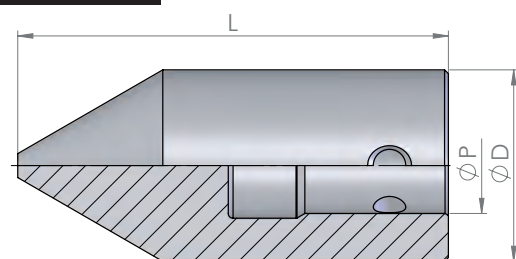
Front Ejectors SKK



SHK



TURBO



Item	ø D [mm]	ø P [mm]	Length L [mm]
SKK 10	10,3	7 H 7	40
SKK 12	12,3	8 H 7	40
SKK 13	13,3	8 H 7	40
SKK 14	14,3	8 H 7	40
SKK 15	15,3	11 H 7	40
SKK 16	16,3	11 H 7	40
SKK 17	17,3	11 H 7	40
SKK 18	18,3	11 H 7	40
SKK 20	20,3	14 H 7	65
SKK 22	22,3	14 H 7	65
SKK 24	24,3	14 H 7	65
SKK 25	25,3	20 H 7	65
SKK 26	26,3	20 H 7	65
SKK 28	28,3	20 H 7	65
SKK 30	30,3	20 H 7	65
SKK 31	31,3	20 H 7	65
SKK 32	32,3	20 H 7	65
SKK 34	34,3	20 H 7	65
SKK 35	35,3	20 H 7	65
SKK 36	36,3	20 H 7	65
SKK 38	38,3	20 H 7	65
SKK 40	40,3	20 H 7	65

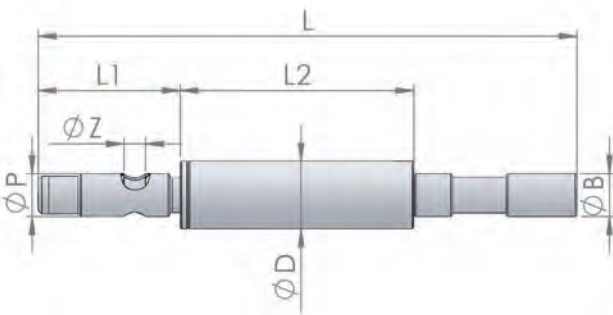
Item	ø D [mm]	ø P [mm]	Length L [mm]
SKK 25	25,3	20 H 7	90
SKK 26	26,3	20 H 7	90
SKK 28	28,3	20 H 7	90
SKK 30	30,3	20 H 7	90
SKK 31	31,3	20 H 7	90
SKK 32	32,3	20 H 7	90
SKK 34	34,3	20 H 7	90
SKK 35	35,3	20 H 7	90
SKK 36	36,3	20 H 7	90
SKK 38	38,3	20 H 7	90
SKK 40	40,3	20 H 7	90
SKK 41	41,3	20 H 7	90
SKK 42	42,3	20 H 7	90
SKK 44	44,3	20 H 7	90
SKK 45	45,3	20 H 7	90
SKK 46	46,3	20 H 7	90
SKK 50	50,3	20 H 7	90
SKK 51	51,3	20 H 7	90
SKK 55	55,3	20 H 7	90
SKK 60	60,3	20 H 7	90
SKK 65	65,3	20 H 7	90
SKK 67 – 100		a.A.	



HSL Rotating Inserts	110
TURBO Rotating Inserts	111
IEMCA Rotating Inserts	112
Other Rotating Inserts	114

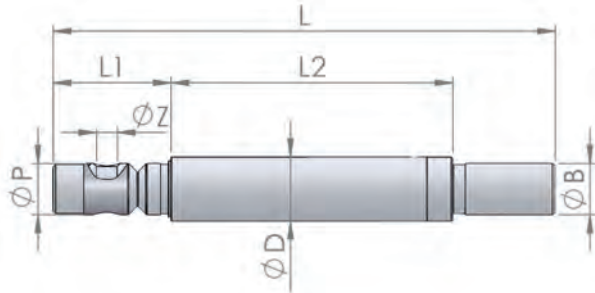


HSL Rotating Inserts

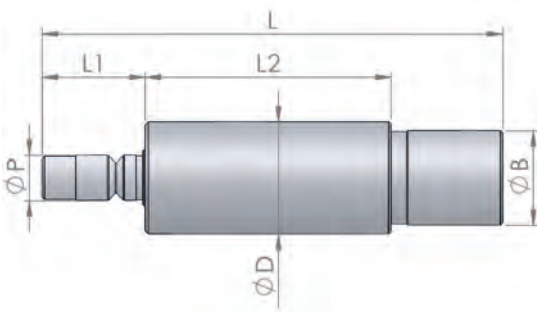


Item	Machine Manufacturer	ØD [mm]	ø B [mm]	ø Z [mm]	ø P [mm]	Length L1 [mm]	Length L2 [mm]	Total Length L [mm]
L 10 HSL	FMB, lemca, Irco	10,5	8	4	7	26,5	43,5	100
L 12 HSL	FMB, lemca, Irco	12,5	8	4	8	26,5	43,5	100
L 13 HSL	FMB, lemca, Irco	13,5	8	4	8	26,5	43,5	100
L 15 HSL	FMB, lemca, Irco, Traub	15	12	6	11	26,5	43,5	100
L 18 HSL	FMB, lemca, Irco, Traub	18	12	6	11	26,5	43,5	100
L 20 HSL	FMB, lemca, Irco, Traub	20	17	8	14	39	47	116
L 22 HSL	FMB, lemca, Irco, Traub	22	17	8	14	39	47	116
L 25 HSL	FMB, lemca, Irco, Traub	25	20	8	20	41,5	47,5	119
L 30 HSL	FMB, lemca, Irco, Traub	30	20	8	20	41,5	47,5	119
L 32 HSL	FMB, lemca, Irco, Traub	32	20	8	20	41,5	47,5	119
L 36 HSL	FMB, lemca, Irco, Traub	36	20	8	20	41,5	47,5	119

TURBO Rotating Inserts

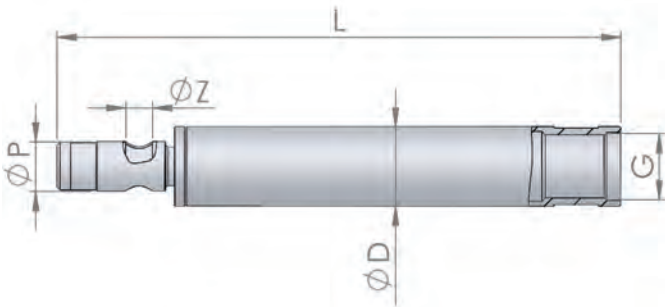


Item	ØP [mm]	ØD [mm]	ØB [mm]	ø Z [mm]	Length L1 [mm]	Length L2 [mm]	Total Length L [mm]
LT 25 / D 25	20	25	20	8	46	110	196
LT 30 / D 30	20	30	25	8	46	110	196
LT 32 / D 32	20	32	25	8	46	110	196
LT 34 / D 34	20	34	30	8	46	110	196
LT 36 / D 36	20	36	30	8	46	110	196

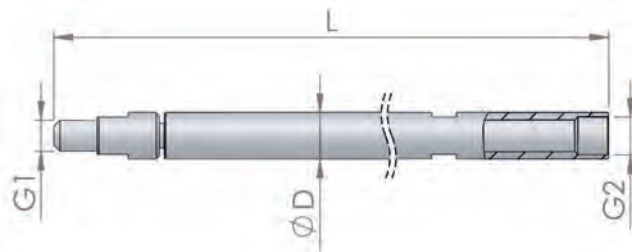


Item	ØP [mm]	ØD [mm]	ØB [mm]	Length L1 [mm]	Length L2 [mm]	Total Length L [mm]
LT 38 / D 38	20	38	30	46	110	196
LT 40 / D 40	20	40	33	46	110	206
LT 42 / D 42	20	42	33	46	110	206
LT 44 / D 44	20	44	33	46	110	206
LT 45 / D 45	20	45	33	46	110	206
LT 50 / D 50	20	50	42	46	110	206
LT 54 / D 54	20	54	42	46	110	206
LT 55 / D 55	20	55	42	46	110	206
LT 58 / D 58	20	58	51	46	110	231
LT 60 / D 60	20	60	51	46	110	231
LT 63 / D 63	20	63	51	46	110	231
LT 65 / D 65	20	65	51	46	110	231
LT 70 / D 70	20	70	51	46	110	231
LT 75 / D 75	20 / 35	75	65	46	110	231
LT 80 / D 80	35	80	65	46	110	231
LT 90 / D 90	35	90	65	46	110	231
LT 100 / D 100	35	100	82	46	110	231

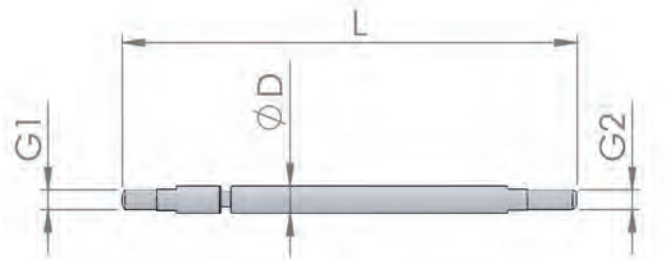
IEMCA Rotating Inserts



Item	Machine Manufacturer	ØD [mm]	ø G [mm]	ø Z [mm]	ø P [mm]	Total Length L [mm]
L12IEMCASIR	lemca	12,5	M 9 x 1 L	4	8	107
L15IEMCASIR	lemca	15	M 12 x 1 L	6	11	127
L18IEMCASIR	lemca	18	M 15 x 1 L	6	11	127
L23IEMCASIR	lemca	23	M 18 x 1 L	8	14	139,5
L24IEMCASIR	lemca	24	M 18 x 1 L	8	14	139,5
L25IEMCASIR	lemca	25	M 22 x 1 L	8	20	146,5
L32IEMCASIR	lemca	32	M 28 x 1 L	8	20	169,5
L36IEMCASIR	lemca	36	M 30 x 1 L	8	20	169,5

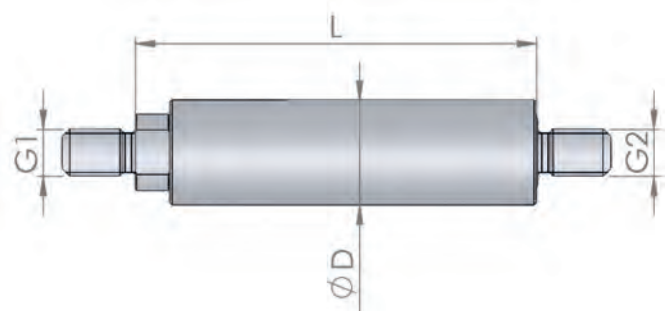


Item	Machine Manufacturer	ØD [mm]	Thread G 1	Thread G 2	Total Length L [mm]
L 7 lemca D 7	lemca	7,5	M 5	M 6 x 0,75	139



Item	Machine Manufacturer	ØD [mm]	Thread G 1	Thread G 2	Total Length L [mm]
L 5 lemca D 5	lemca	5,5	M 4	M 4	90

Other Rotating Inserts

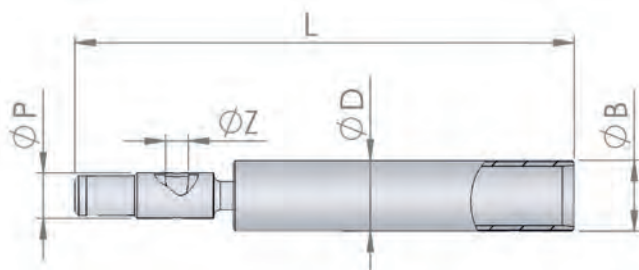


Item	Machine Manufacturer	ØD [mm]	Thread G 1	Thread G 2	Total Length L [mm]
L 5.5 ERT ERT 0550	Tornos	5,5	M 3	M 3	54
L 7 ERT ERT 0700	Tornos	7	M 4	M 5	47
L 7.5 ERT ERT 0750	Tornos	7,5	M 4	M 5	47
L 8.5 ERT ERT 0850	Tornos	8,5	M 5	M 5	47
L 10.5 ERT ERT 1050	Tornos	10,5	M 6	M 6	52
L 13.5 ERT ERT 1350	Tornos	13,5	M 6	M 6	52

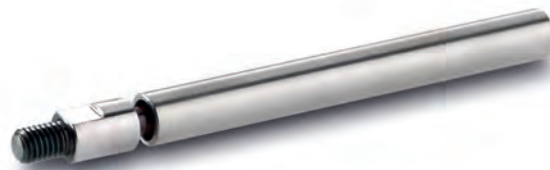
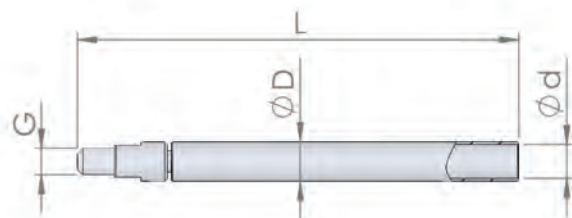
Item	Machine Manufacturer	ØD [mm]	Thread G 1	Thread G 2	Total Length L [mm]
L 7 LNS	LNS / Tryton	7	M 5	M 4	63
L 12 LNS	LNS / Tryton	12	M 6	M 6	72

Item	Machine Manufacturer	ØD [mm]	Thread G 1	Thread G 2	Total Length L [mm]
L 7 B 84 7 B	Bechler	7,5	M 5	M 5	84
L 10 B 84 10 B [A]	Bechler	10	M 5	M 5	84
L 10 B 96 10 B [B]	Bechler	10	M 5	M 5	96

Item	Machine Manufacturer	ØD [mm]	Thread G 1	Thread G 2	Total Length L [mm]
7 G	Gauthier	7	M 5	M 5	86

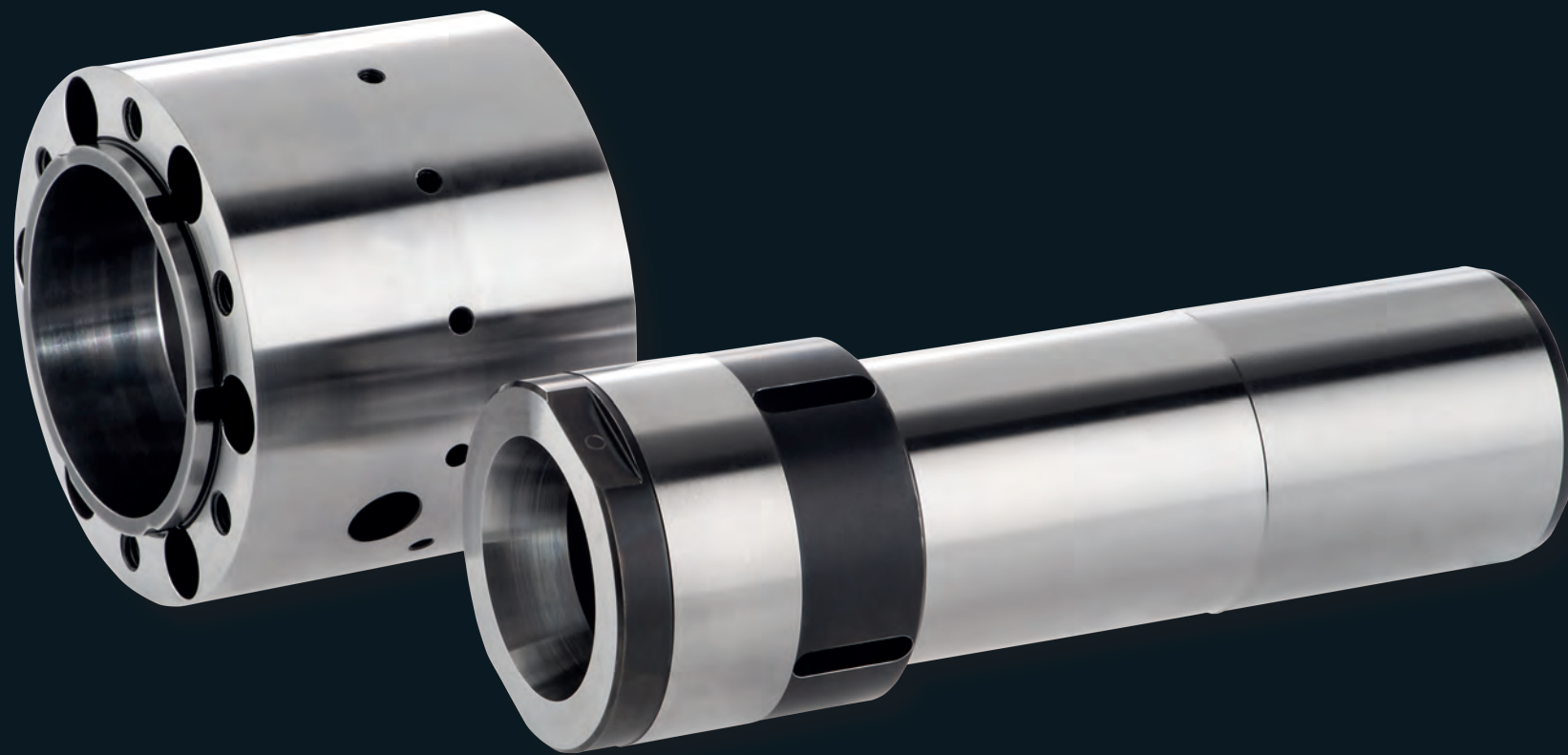


Item	Machine Manufacturer	ØD [mm]	ØB [mm]	ØZ [mm]	ØP [mm]	Total Length L [mm]
L 10 TR D10 Traub	Traub	10,5	9	4	7	88
L 12 TR D12 Traub	Traub	12,5	11	4	8	88



Item	Machine Manufacturer	Ød [mm]	ØD [mm]	Thread G	Total Length L [mm]
L 5 / D 5	FMB, Traub	4,5	5,5	M 4	82,5
L 7 / D 7	FMB, Traub	6,4	7,5	M 5	83,5

Collet Sleeves and Lock Nuts



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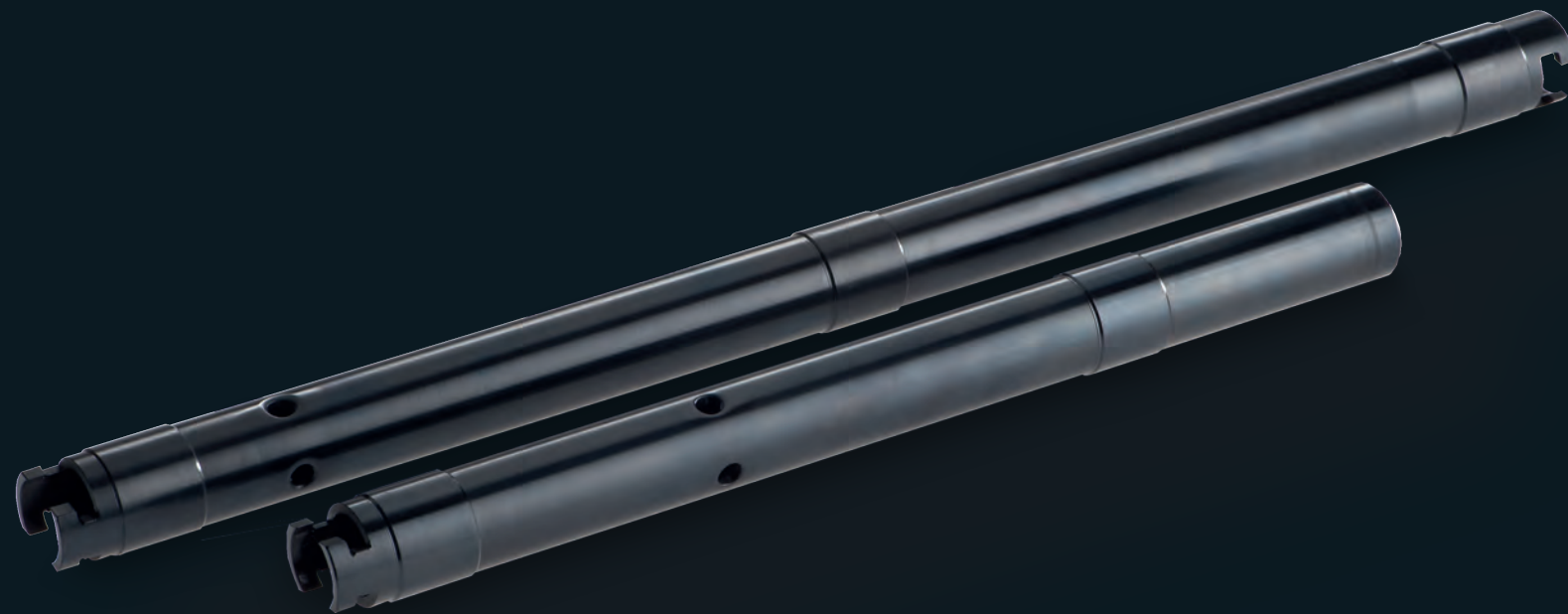
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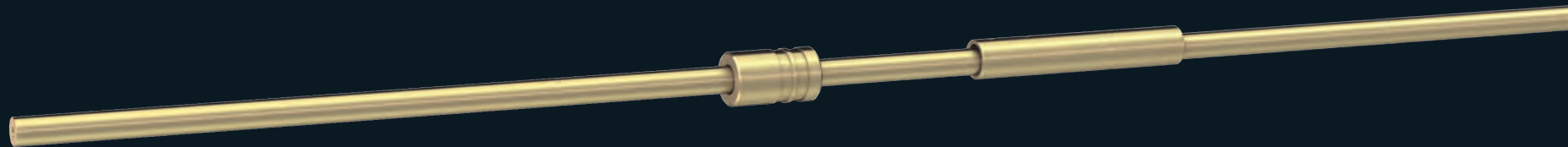
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