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Canons B et pinces F par machines



A

B Guide bushings and F collets by machine types

Führungsbüchse B und F Spannzangen nach Maschinen



Canons tirés B

B draw guide bushings

Gezogene Führungsbüchse B



B

Pinces type F

F type collets

F Typ Spannzangen



C

Canons poussés A

A push guide bushings

Gestossene Führungsbüchse A



D

Canons fixes O

A push guide bushings

Gestossene Führungsbüchse A



E

Canons tournants C21

Rotating guide bushholders C21

Mitlaufende Führungsbüchse C21



F

Canons tournants RB

Rotating guide bushholders RB

Mitlaufende Führungsbüchse RB

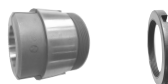


G

Portes-canons

Büchsenhalter

Bush-holders



H

Pinces de ravitailleur

Spannzange für Lademagazin

Barloader collets

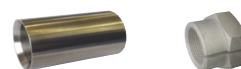


J

Douilles et écrous pour canons B

Sleeves and nuts for B guide bushings

Hülsen und Muttern für B Führungsbüchsen



K



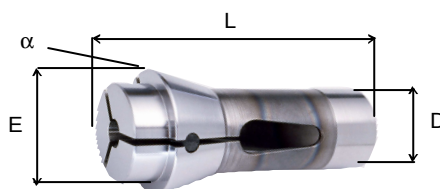
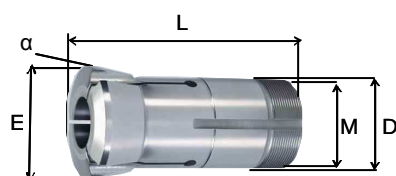
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A **Canons B et pinces F par machines**
B Guide bushings and F collets by machine types
Führungsbüchse B und F Spannzangen nach Maschinen

BECHET
BECHLER
CITIZEN
ESCO
GAUTHIER
GILDEMEISTER
HANWAH
HARDINGE
MANURHIN
MAIER
METAFIL
MYANO
NEXTURN
NOMURA
PETERMANN
POLYGYM
STAR
STROHM
TRAUB
TORNOS
TORNOS-BECHLER
TORNOS DECO, DELTA
TSUGAMI

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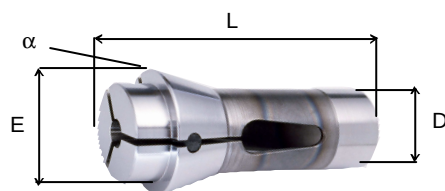
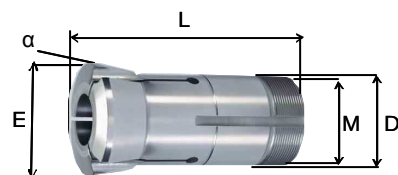


Canons Métal Dur - Carbide Bushing - Hartmetall F-Büchse

Pincas F - Collet F - Spanzangen F

Machines	Numéro	D	L	α	M	max	Machines	Numéro	D	L	E	α	max	Ref
BECHET														
RM7	277.001	12	50	16°	10 x .75	7	RM7	90.002	8	41	12	16°	6	F8/1079
RM10	54.001	16	58	16°	14 x 1	10	RM10	140.002	14	46	18	13°	10	F14/98
RM12								90.005	16	55	22	15°	12	F16/104
RM 15/16	13.001	22	68	16°	19 x 1	15	RM15	90.006	20	60	27.5	15°	15	F20/102
RM19/25	282.001	32	71	30°	32 x 1	25	RM19	90.008	25	65	34	15°	20	F25/91
RM32/TCN32	61.001	40	72	30°	40 x 1	32	RM25/32	285.002	38.08	107.5	49	15°	32	F38/72
BECHLER														
A4 - A7	1.001	9	44	16°	8 x 0.5	3	A4 - A7	140.001	10	46	16	20°	6	F10/1178
A7 - A10	261.001	12	52	30°	12 x 1	7	A7 - A10 - AR10	140.002	14	46	18	13°	9	F14/98-117E
A7 - A10	53.001	12	50	16°	10 x .75	7	Pour canon tournant - Für Mitlaufende FB - For revolving bushholder							
A7 - A10 - AR10	113.001	13	41.5	15°	12.5x .75	7								
A7 -A10 - AR10	13.001	22	68	16°	19 x 1	14								
B12-B16-B20	18.001	28	81	30°	25 x 1	20	B12	140.003	18	67	25	15°	12	F18/85
						B16	140.004	22	67	28	13°	15	F22/88	
						B20 - BR20	140.005	26	67	32	13°	18	F26/90	
C26	61.001	40	72	30°	40 X 1	26	C26	140.006	34	80	40	15°	26	F34/356
C26 - C32	115.001	48	81	30°	48 x 1.25	38	C26	140.007	39	80	46	15°	32	F39/1208
CITIZEN														
R04	51.001	9	44	16°	8x.75	4.5	P4, P7	90.002	8	41	12	16°	4	F8/1079
R07	3.001	11	53	16°	10 x .75	6	R07	40.003	15	64	21	16°	10	F15/580-120E
R07	498.001	11	53	16°	10 x .8	6	= 1352							
D10, E10, F10, L10	8.001	16	59	16°	14 x 1	10	D/F/G/L 10, F12	40.003	15	64	21	16°	10	F15/580-120E
B12, F12, K12, M12	166.001	18	60	30°	16 x 1	13	F12, B12	40.012	16	64	21	16°	11	F16/1076-1212E
C16,D16,F16,G16,K16, M16,L16	61.002	24	61	30°	24 x 1	17	D/E/ F/L/M 16	40.004	20	67	28	16°	14	F20/87-138E
A20, B20, L20, M20	22.001	28	82	16°	25 x 1	20	E/ F/ L/ M 20	40.005	25	77	35	16°	17	F25/64-145E
E20, F20	282.001	32	71	30°	32 x 1	21	E/ F/ L/ M 20	40.005	25	77	35	16°	17	F25/64-145E
F25, E25	451.001	34	88	10°	34 x 1	27	E25, F25	40.006	30	80	42	16°	21	F30/63
E32, G32, C32, L32, M32	28.001	42	82	16°	40 x 1	32	E32, G32, L25(32)	40.008	37	92	47	16°	32	F37/740-1536E
ESCO														
New Mach 647	494.001	10	58	12°	10 x .75	6,5								
GAUTHIER														
1h	1.001	9	44	16°	8 x 0.5	3	1h	225.001	11	41	18.7	22°	6.5	
1hR	3.001	11	53	16°	10 x .75	6	1hR	225.002	14	46	19.5	15°	9	
GM 12	8.001	16	59	16°	14 x 1	10	GM 12	225.003	20	54	26	15°	14	F20/201-136E
GM 20	13.001	22	68	16°	19 x 1	14	GM 20	40.005	25	77	35	16°	17	F25/64-145E
						GM 25	40.006	30	80	42	16°	22	F30/63	
GILDEMEISTER														
GLD12	166.001	18	60	30°	16 x 1	13	GLD12	40.004	20	67	28	16°	14	F20/87-138E
SPEED 12 5/7 Linear	166.001	18	60	30°	16 x 1	13	SPEED 12 5/7 Linear	40.003	15	64	21	16°	10	F15/580-120E
						SPEED 12 5/7 Linear	40.004	20	67	28	16°	14	F20/87-138E	
GLD16/20-GS20	18.001	28	81	30°	25 x 1	20	GLD16/20-GS20	40.005	25	77	35	16°	20	F25/64-145E
SPEED 20 Linear	451.001	34	88	10	34 x 1	27	SPEED 20 Linear	40.005	25	77	35	16°	20	F25/64-145E
							SPEED 20 Linear	90.009	30	65	38	15°	21	F30/101-1146E
GLD-GS25 L	451.001	34	88	10	34 x 1	27	GLD-GS25 L	231.005	32	75	45	15°	25	F32/221-161E

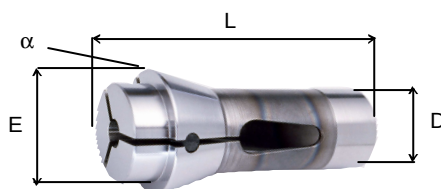
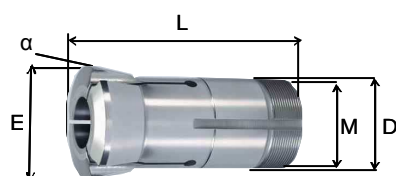
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Canons Métal Dur - Carbide Bushing - Hartmetall F-Büchse

Pinces F - Collet F - Spanzangen F

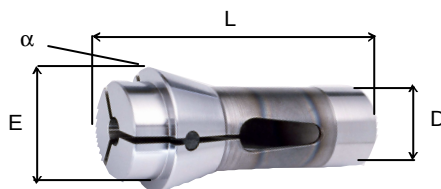
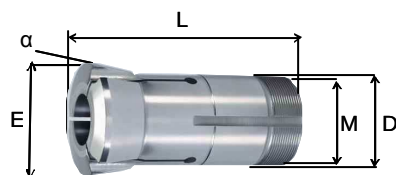
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SPEED 32-10 Linear	28.001	42	82	16°	40 x 1	32	SPEED 32-10 Linear	40.008	37	92	47	16°	32	F37/740-1536E
							SPEED 32-10 Linear	231.007	42	94	55	15°	32	F42/99-171E
SPRINT 32	172.001	40	72	30°	36 x 1	32	SPRINT 32	40.008	37	92	47	16°	32	F37/740-1536E
SPRINT 42	115.001	48	81	30°	48 x 1.25	38								



Canons Métal Dur - Carbide Bushing - Hartmetall F-Büchse

Pincas F - Collet F - Spanzangen F

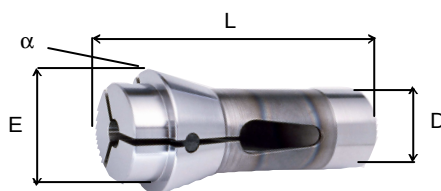
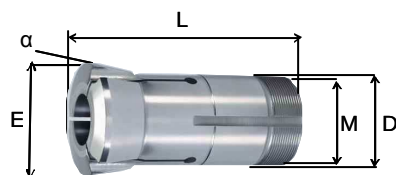
Machines	Numéro	D	L	α	M	max	Machines	Numéro	D	L	E	α	max	Ref
HANWHA														
XD07	3.001	11	53	16°	10 x .75	6	XD07	40.002	10	47.5	15.5	20°	6	F10/86-109E
SL12, XD12H, XP12	166.001	18	60	30°	16 x 1	13	SL12, XD12H, XP12	40.003	15	64	21	16°	10	F15/580-120E
SL12, XD12H, XP12	171.001	18	60	30°	18 x 1	13	SL12, XD12H, XP12	40.012	16	64	21	16°	11	F16/1076-1212E
SL16, XD16, XP16	39.001	22	68	16°	22 x 1	17	SL16, XD16, XP16	231.002	22	55	30	15°	14	F22/71-140E
HANEX17, ML 18-G	39.001	22	68	16°	22 x 1	17	ML 18-G	40.005	25	77	35	16°	20	F25/64-145E
SL20S, XD20H-M	22.001	28	82	16°	25 x 1	20	SL20S, XD20H-M	40.005	25	77	35	16°	20	F25/64-145E
XD120, XP20S	22.001	28	82	16°	25 x 1	20	XD120, XP20S	40.005	25	77	35	16°	20	F25/64-145E
XD20N	Sans canon - Ohne FBüchse - Without bushing						XD20N	40.005	25	77	35	16°	20	F25/64-145E
SL26HP11-S/H	451.001	34	88	10	34 x 1	27	SL26HP11-S/H	231.005	32	75	45	15°	25	F32/221-161E
XD26H	451.001	34	88	10	34 x 1	27	XD26H	231.005	32	75	45	15°	25	F32/221-161E
SL32, XD32	28.001	42	82	16°	40 x 1	32	SL32, XD32	40.008	37	92	47	16°	32	F37/740-1536E
SL35HP	250.001	45	82	16°	42 x 1	38	SL35HP	231.007	42	94	55	15°	32	F42/99-171E
XD38H	250.001	45	82	16°	42 x 1	38	XD38	231.009	48	94	60	15°	38	F48/81-E173
S20, ST220	516.001	30	70	16°	28 x 1	20	S20, ST220	40.005	25	77	35	16°	20	F25/64-145E
ST220	22.001	28	82	16°	25 x 1	20	ST220	40.005	25	77	35	16°	20	F25/64-145E
ST25, ST225	451.001	34	88	10	34 x 1	27	ST225	40.006	30	80	42	16°	24	F30/63-157E
MANURHIN														
Swing 13, Tramirer 13	166.001	18	60	30°	16 x 1	13	Tramirer 13	140.003	18	67	25	15°	12	F18/85-127E
Twin 13, Decolturn 16	39.001	22	68	16°	22 x 1	17	Swing, Twin13 Tramirer16	40.004	20	67	28	16°	14	F20/87-138E
Tramirer 16	13.001	22	68	16°	19 x 1	14	Decolturn 12/16	225.003	20	54	26	15°	14	F20/201-136E-136E
Compact	61.002	24	61	30°	24 x 1	17	Compact	231.002	22	55	30	15°	14	140E
KMX, Swing, Tramirer20 Twin20	18.001	28	81	30°	25 x 1	20	KMX-Tramirer 20	40.005	25	77	35	16°	17	F25/64-145E
							Swing-Twin20	231.005	32	75	45	15°	25	F32/221
KMX 26	451.001	34	88	10°	34 x 1	27	KMX225, 26	231.005	32	75	45	15°	25	F32/221
Mirabel PM 32	28.001	42	82	16°	40 x 1	32	Mirabel 32	285.002	38.08	107.5	49	15°	32	F38/
MAIER														
ML7	3.001	11	53	16°	10 x .75	6	ML7	40.002	10	47.5	15.5	20°	6	F10/86-109E-109E
ML12G/S/125K II	166.001	18	60	30°	16 x 1	13	ML12S	40.003	15	64	21	16°	10	F15/580-120E-120E
ML18S, ML18H	39.001	22	68	16°	22 x 1	17	ML18S, ML18H	40.005	25	77	35	16°	17	F25/64-145E-145E
ML20	22.001	28	82	16°	25 x 1	20	ML20	40.005	25	77	35	16°	17	F25/64-145E-145E
ML26S, ML26H	451.001	34	88	10°	34 x 1	27	ML26S, ML26H	40.006	30	80	42	16°	24	F30/63-157E
ML26D	451.001	34	88	10°	34 x 1	27	ML26D	231.005	32	75	45	15°	25	F32/221-161E
ML32	28.001	42	82	16°	40 x 1	32	ML32	40.008	37	90	47	16°	32	F37/740-1536E
ML36							ML36	171E	42	94	55	15°	37	171E
METARL														
D3	3.001	11	53	16°	10 x .75	6	D3	40.001	8	42	12	16°	4	F8/577



Canons Métal Dur - Carbide Bushing - Hartmetall F-Büchse

Pincas F - Collet F - Spanzangen F

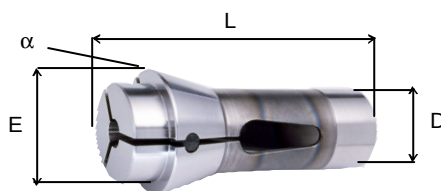
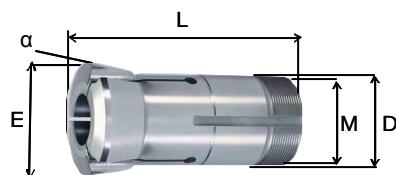
Machines	Numéro	D	L	α	M	max	Machines	Numéro	D	L	E	α	max	Ref
MYANO														
LS 12	450.001	21	57	12°30'	18 x 1	14	LS 12	40.003	15	64	21	16°	10	F15/580-120E
LS 18C, LS 18S	13	27	57.5	12°	24 x 1	19	LS 18C, LS 18S	231.004	28	70	38	15	21	F28/93
NEXTURN (KNOWLEDGE MACHINE TOOL)														
SA-12	166.001	18	60	30°	16 x 1	13	SA-12	40.012	16	64	21	16°	11	F16/1076
SA-12	171.001	18	60	30°	18 x 1	13	SA-12	40.012	16	64	21	16°	11	F16/1076
SA-18	22.001	28	82	16°	25 x 1	20	SA-18	40.005	25	77	35	16°	19	F25/64-145E
SA-20, SA-20e	22.001	28	82	16°	25 x 1	20	SA20, SA-20e	40.005	25	77	35	16°	19	F25/64-145E
SA-26, SA-26e	451.001	34	88	10°	34 x 1	27	SA-26, SA-26e	231.005	32	75	45	15°	25	F32/221-161E
SA-32	28.001	42	82	16°	40 x 1	32	SA-32	40.008	37	92	47	16°	32	F37/740-1536E
SA-38	467.001	46	92	16°	45 x 1	38	SA-38	511.026	44	93	52	16°	38	F48/38
NOMURA														
P6	482.001	11	53	16°	10 x .75	6								
NS-P8, NN12K	480.001	14	61	15.5°	14 x 1	9								
NN, NS-P10	481.001	16	64	15.5°	14 x 1	10								
HH, NN, NS-P16	487.001	22	70	15°	20 X 1	14								
NN, P20	486.001	30	70	16°	28 x 1	23								
PETERMANN														
PO, P3	50.001	7	30	16°	6x5	3	P0, P3	90.001	7	26	10.5	15°	3	F7/206
P4, P7	51.001	9	44	16°	8x.75	4.5	P4, P7	90.002	8	41	12	16°	4	F8/1079
P4 special	60.001	9	25	30°	6X.5i	4	<i>Internal thread</i>							
P7, P7R	53.001	12	50	16°	10x.75	7	P7	40.002	10	47.5	15.5	20°	6	F10/86-109E
P7R, 10, 10HS	54.001	16	58	16°	14x1	10	P7R	90.004	15	47	22	20°	10.5	F15/538
							10, 10HS	90.005	16	55	22	15°	10.5	F16/104
							10R, 10HSR	90.006	20	60	27.5	15°	13	F20/102
P16	61.002	24	61	30°	24x1	17	P16	90.007	22	66	32	16°	16	F22/727
P25	61.001	40	72	30°	40x1	36	P25	90.010	32	65	40	15°	25	F32/1023
Special : 60.001 : 010, 053							P25R	90.011	38	86	50	15°	32	F38/742
POLYGYM														
Série 20 mm	282.001	32	71	30°	32 x 1	21		231.004	28	70	38	15	21	F28/93
Série 25 mm	451.001	34	88	10°	34 x 1	27		231.005	32	75	45	15	25	F32/221
Série 32 mm	28.001	42	82	16°	40 x 1	32		40.008	37	92	47	16°	32	F37/740-1536E



Canons Métal Dur - Carbide Bushing - Hartmetall F-Büchse

Pinces F - Collet F - Spanzangen F

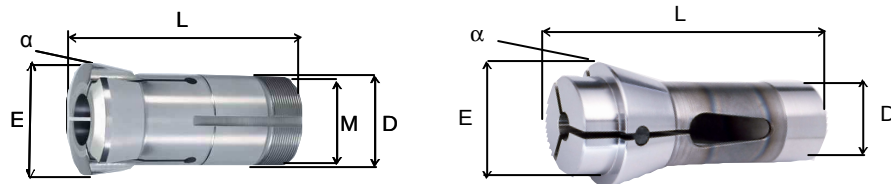
Machines	Numéro	D	L	α	M	max	Machines	Numéro	D	L	E	α	max	Ref
STAR														
SW7	3.001	11	53	16°	10 x .75	6	SW7, SW10	40.003	15	64	21	16°	10	F15/580-120E
JNC, RNC, SNC 10	8.001	16	59	16°	14 x 1	10	JNC, RNC, SNC10	40.003	15	64	21	16°	10	F15/580-120E
SH12,VNC12,SNC15	450.001	21	57	12.5°	18 x 1	14	SH12,VNC12,SNC15	40.004	20	67	28	16°	13	F20/87-138E
JNC16,RNC16	450.001	21	57	12.5°	18 x 1	14	JNC16,RNC16	40.004	20	67	28	16°	13	F20/87-138E
SNC15, JNC16,KJR16	39.001	22	68	16°	22 x 1	17	SNC15, JNC16,KJR16	40.004	20	67	28	16°	13	F20/87-138E
RNC,SR,SST16	39.001	22	68	16°	22 x 1	17	RNC,SR,SST16	40.004	20	67	28	16°	13	F20/87-138E
KNC16/20,SR,VNC20	22.001	28	82	16°	25 x 1	20	KNC16/20,SR,VNC20	40.005	25	77	35	16°	19	F25/64-145E
KJR,SCN25	451.001	34	88	10°	34 x 1	27	KNC25DX	40.007	34	80	44	16°	26	F34/1077
JNC25	28.001	42	82	16°	40 x 1	32	JNC25	40.008	37	92	47	16°	32	F37/740-1536E
KNC,SR,VNC25/32	28.001	42	82	16°	40 x 1	32	KNC,SR,VNC25/32	40.008	37	92	47	16°	32	F37/740-1536E
STM38	464.001	48	82	16°	46 x 1	38	STM38	231.009	48	94	60	15°	38	F48/81-E173
STROHM														
M45	50.001	7	30	16°	6 x 0.5	4	M 45	40.001	8	42	12	16°	4	F8/577
M75 - M105	3.001	11	53	16°	10 x .75	6	M 75	40.002	10	47.5	15.5	20°	6	F10/86-109E
M105 / 125	166.001	18	60	30°	16 x 1	13	M 105 - M 125	40.003	15	64	21	16°	10	F15/580-120E
M205 / 255	13.001	22	68	16°	19 x 1	14	M 205 / 255	40.005	25	77	35	16°	17	F25/64-145E
M205 / 255	172.001	40	72	30°	36 x 1	32	M 205 / 255	40.006	30	80	42	16°	24	F30/63
TRAUB														
TNL 12	166.001	18	60	30°	16 x 1	13	TNL 12	40.012	16	64	21	16°	11	F16/1076
TNL12	13	27	57,5	12°	24 x 1	16	Ref Traub 989 387	40.003	15	64	21	16°	10	F15/580-120E
TNL12	493.001	27	67,5	12°	24 x 1	16	Ref Traub 989 517							
TNL12	495.001	21	64,5	12°	21 x 1	12,7	Ref Traub 989 468							
TNL 16	39.001	22	68	16°	22 x 1	17	TNL 16	40.004	20	67	28	16°	13	F20/87-138E
TNL 18	22.001	28	82	16°	25 x 1	20	TNL 18	40.005	25	77	35	16°	17	F25/64-145E
TNL 20	22.001	28	82	16°	25 x 1	20	TNL 20	40.005	25	77	35	16°	17	F25/64-145E
TNL 26	451.001	34	88	10°	34 x 1	27	TNL 26	40.006	30	80	42	16°	24	F30/63
TNL 32	28.001	42	82	16°	40 x 1	32	TNL 32	40.008	37	92	47	16°	32	F37/740-1536E
Ref Traub 906342 - Fentes remplies de silicone - Schlitz mit Silicon adbedichtet - Slots filled with silicon - Ranuras llenas de silicona - Fessura riempita di silicone														
TNC 32	511.017	42	50	$\alpha: 22^\circ 30'$ $\beta: 22^\circ 30'$		32	Pince double Cône - double cone Collet : C42							



Canons Métal Dur - Carbide Bushing - Hartmetall F-Büchse

Pinces F - Collet F - Spanzangen F

Machines	Numéro	D	L	α	M	max	Machines	Numéro	D	L	E	α	max	Ref
TORNOS														
M4 - T4 - TV	1.001	9	44	16°	8 x 0.5	3	M4 - T4 - TV	40.001	8	42	12	16°	4	F8/577
M7	3.001	11	53	16°	10 x .75	6	M7	40.002	10	47.5	15.5	20°	6	F10/86-109E
M7	498.001	11	53	16°	10 x .8	6	= 1352							
R10-M10-R125-MS7	8.001	16	59	16°	14 x 1	10	MS7	40.016	13	64	19	16°	8	F13/357
R10-M10-R125-MS7	166.001	18	60	30°	16 x 1	13	R10 - M10	40.003	15	64	21	16°	10	F15/580-120E
R10-M10-R125-MS7	171.001	18	60	30°	18 x 1	13	R125	40.012	16	64	21	16°	11	F16/1076-1212E
M15 - R16 - RR20	13.001	22	68	16°	19 x 1	14	M15 - R16	40.004	20	67	28	16°	13	F20/87-138E
M15 - R16 - RR20	39.001	22	68	16°	22 x 1	17	R20 - M20 - RR20	40.005	25	77	35	16°	17	F25/64-145E
M20 - M25 / 28	18.001	28	81	30°	25 x 1	20	M25	40.006	30	80	42	16°	24	F30/63
R20	22.001	28	82	16°	25 x 1	20	M25 - 28	40.007	34	80	44	16°	26	F34/1077
MR32	28.001	42	82	16°	40 x 1	32	MR32 - TBM32	40.008	37	92	47	16°	32	F37/740-1536E
MAGIC														
M4	38.001	10	57	36°	10x1	4								
M7,MS7	45.001	13	68	36°	13x1	8								
TORNOS - BECHLER ENC, TOP														
ENC 74/75	8.001	16	59	16°	14 x 1	10	ENC 74/75	40.016	13	64	19	16°	8	F13/357
ENC 74/75	40.031	18	100	20°	18 x 1	13	ENC 163/167	40.005	25	77	35	16°	17	F25/64-145E
ENC 162/164	61.002	24	61	30°	24 x 1	17	ENC 162/164	225.003	20	54	26	15°	14	F20/201-136E
ENC 163/167	18.001	28	81	30°	25 x 1	20	ENC 262/264	90.009	30	65	38	15°	21	F30/101-1146E
ENC 262/264	40.032	34	150	20°	32 x 1.5	25								
TOP 100	40.031	18	100	20°	18 x 1	13								
TOP 100	8.001	16	59	16°	14 x 1	10	TOP 100	40.016	13	64	19	16°	8	F13/357
TOP 200	40.032	34	150	20°	32 x 1.5	25	TOP 200	40.005	25	77	35	16°	17	F25/64-145E
TBM26	172.001	40	72	30°	36 X 1	32	TBM26	231.005	32	75	45	15°	17	F32/221
TBM32	40.030	44	166	20°	42 x 1.5	32	TBM32	40.008	37	92	47	16°	32	F37/740-1536E

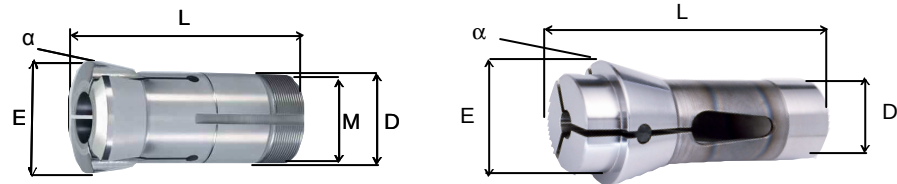


Canons Métal Dur - Carbide Bushing - Hartmetall F-Büchse

Pincas F - Collet F - Spanzangen F

Machines	Numéro	D	L	α	M	max	Machines	Numéro	D	L	E	α	max	Ref
TORNOS - DECO - DELTA														
SIGMA 8	W15.003	15	58.3	15°	14.75x1.75	10	SIGMA 8	40.016	13	64	19	16°	8	F13/357
<i>Pince tirée - Gezogene Spannzange - Drawback collet</i>														
<i>DECO SIGMA 8 : travaille sans canon de guidage - arbeitet ohne F-Büchse - works without guide bushing</i>														
MICRO - 7	3.001	11	53	16°	10 x .75	6	DECO 7	40.016	13	64	19	16°	8	F13/357
DECO 7	3.001	11	53	16°	10 x .75	6	DECO 7	40.002	10	47.5	15.5	20°	6	F10/86-109E
DECO 7	498.001	11	53	16°	10 x .8	6	= 1352							
DECO 10	8.001	16	59	16°	14 x 1	10	DECO 10	40.016	13	64	19	16°	8	F13/357
DECO 13/16	61.002	24	61	30°	24 x 1	17	DECO 13 /16	225.003	20	54	26	15°	14	F20/201-136E
							DECO 13 /16	40.016	13	64	19	16°	8	F13/357
							DECO 13 /16	40.003	15	64	21	16°	10	F15/580-120E
							DECO 13 /16	40.012	16	64	21	16°	11	F16/1076-1212E
DECO 20	18.001	28	81	30°	25 x 1	20	DECO 20	40.005	25	77	35	16°	17	F25/64-145E
							DECO 20	225.003	20	54	26	15°	14	F20/201-136E
							DECO 20	90.009	30	65	38	15°	21	F30/101-1146E
DELTA 12/ 20	99.001	26	77	16°	25 x 1	29	DELTA 12/ 20	40.005	25	77	35	16°	17	F25/64-145E
GAMMA 20/26	99.001	26	77	16°	25 x 1	29	GAMMA 20/26	40.005	25	77	35	16°	17	F25/64-145E
SIGMA 20	451.001	34	88	10°	34 x 1	27	SIGMA 20	90.009	30	65	38	15°	21	F30/101-1146E
							SIGMA 20	40.005	25	77	35	16°	17	F25/64-145E
							SIGMA 20	225.003	20	54	26	15°	14	F20/201-136E
DECO 26	451.001	34	88	10°	34 x 1	27	DECO 26	40.008	37	92	47	16°	29	F37/740-1536E
							DECO 26	40.005	25	77	35	16°	17	F25/64-145E
							DECO 26	90.009	30	65	38	15°	21	F30/101-1146E
DECO 32	28.001	42	82	16°	40 x 1	32	DECO 32	40.008	37	92	47	16°	32	F37/740-1536E
DELTA 38/5	496.001	48	81	10°	46 x 1	38	DELTA 38/5	511.024	43	92	53	16°	38	F43/37
Sub-spindle							DELTA 38/5	511.028	48	100	54	15	38	F48/38
TORNOS - SwissNano														
SwissNano	498.001	11	53	16°	10 x .8	6	SwissNano	40.002	10	47.5	15.5	20°	6	F10/86-109E

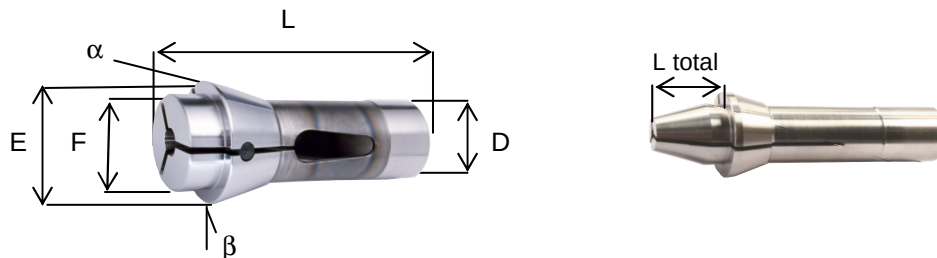




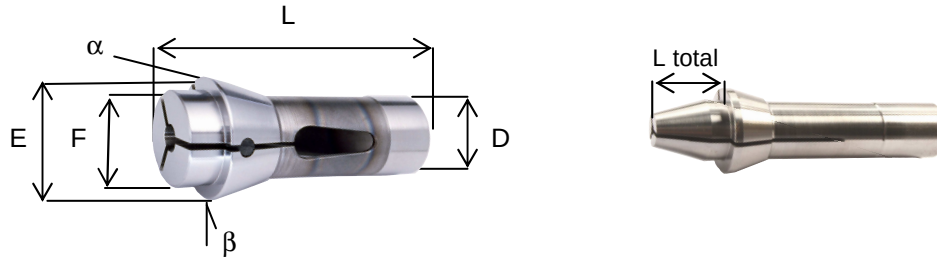
Canons Métal Dur - Carbide Bushing - Hartmetall F-Büchse

Pinces F - Collet F - Spanzangen F

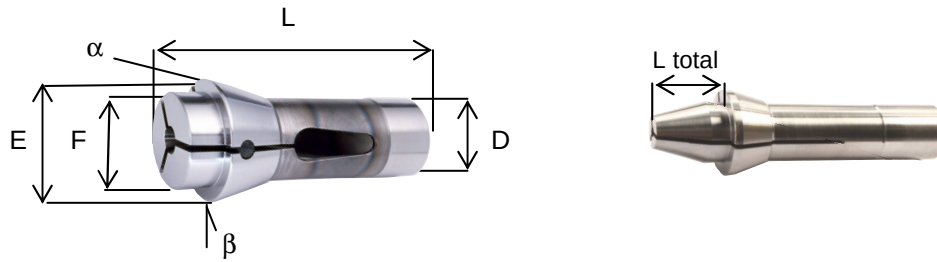
Machines	Numéro	D	L	α	M	max	Machines	Numéro	D	L	E	α	max	Ref
TSUGAMI														
P03	498.001	11	53	16°	<u>10 x .8</u>	6	P03	40.002	10	47.5	15.5	20°	6	F10/86-109E
NP-4W	3.001	11	53	16°	<u>10 x .75</u>	6	NP-4W	140.001	10	46	16	20°	6	F10/1178
BO07	3.001	11	53	16°	<u>10 x .75</u>	6	BO7	40.002	10	47.5	15.5	20°	6	F10/86-109E
NT/NP-11	166.001	18	60	30°	16 x 1	13	NT/NP-11	40.003	15	64	21	16°	10	F15/580-120E
NT/NP-11	171.001	18	60	30°	18 x 1	13	NT/NP-12	40.004	20	67	28	16°	13	F20/87-138E
NT12	13.001	22	68	16°	19 x 1	14	BO12, NP-16	231.002	22	55	30	15°	15	F22/71 - 140E
NT12	39.001	22	68	16°	22 x 1	17	S-16, NT/NP-17	231.002	22	55	30	15°	15	F22/71 - 140E
NP-17, S-16	483.001	23	72	16	22x1	17	BS18, S16	40.024	24	62	28,4	15°	17	TF24
BS12/NT, NP, S16/17, BO/BS-18	61.002	24	61	30°	24 x 1	17	BS-20, NP-20, S-20	40.005	25	77	35	16°	17	F25/64-145E
HS 207	99.001	26	77	16°	25 x 1	29	HS 207	40.005	25	77	35	16°	17	F25/64-145E
BS/NP/S-20	18.001	28	81	30°	25 x 1	20	NT-25	40.005	25	77	35	16°	17	F25/64-145E
NP20	486.001	30	70	16°	28 x 1	23	NP-20/S20	40.005	25	77	35	16°	17	F25/64-145E
S25	282.001	32	71	30°	32 x 1	21	S-25	40.006	30	80	42	16°	24	F30/63
BS26	451.001	34	88	10°	34 x 1	27	BS-26	231.005	32	75	45	15	25	F32/221
NP-32	28.001	42	82	16°	40 x 1	32	NT/NP-32	40.008	37	92	47	16°	32	F37/740-1536E
BS32	488.001	41	54	10°	38 x 1	32	BS32	40.008	37	92	47	16°	32	F37/740-1536E
BO385	467.001	46	92	16°	45 x 1	38	BO385	511.026	44	93	52	16°	38	F44
BO385/BH38	496.001	48	81	10°	46 x 1	38	BO385/BH38	511.024	43	92	53	16°	38	F43/37
Sub-spindle							BO385/BH38	511.028	48	100	54	15	38	F48/38



PINCES F				F- SPANZANGEN						F COLLETS	
Numéro	D	L	E	F	α	β					
90.001	7	26	10.5	7	15		3	2.5	2	F7/206	
511.008	8	32	13	9	18.5		4.5	4	3		
170.001	8	42	12	8	16		4	3.5	2.5		
40.001	8	42	12	8	16		4	3.5	2.5	F8/577	101E
90.002	8	41	12	8	16		4	3.5	2.5	F8/1079	
511.011	9	30.5	12	0	10		4.5	4	3		
140.001	10	46	16	10	20		6	5	4		
40.002	10	47.5	15.5	10	20		6	5	4	F10/86	109E
225.001	11	41	18.7	12	22		6.5	5	4		
511.015	11	75	16.5	-	20		6	5	4		
471.001	12	50	20	14	20		8	6	5		
561.001	12	58	18	11.5	17		8	6	5		
511.012	13	64	19	13	16		8	6	5		
40.016	13	64	19	13	16		8	6	5	F13/357	116E
511.022	13	67	19	13.5	16		8	6	5		
511.006	14	55	20	14	15		10	8.5	6.5		
140.002	14	46	18	14	13		9	7.5	6	F14/98	117E
225.002	14	46	19.5	15	15		9	7.5	6		
501.001	14	59	20	14	16		10	8.5	6.5		
511.003	15	45	20	15	16		10.5	9	6.5		
40.003	15	64	21	15	16		10	8.5	6.5	F15/580	120E
40.003A	15	64	21	18	16		10	8.5	6.5		
90.004	15	47	22	15	20		10	8.5	6.5	F15/358	121E
90.015	16	51.5	22	15	15		12	10	8		
511.005	16	60.5	23	0	19.5		12	10	8		Filet M14,5x1/20" (124) ; 109
40.012	16	64	21	16	16		12	10	8	F16/1076	1212E
511.016	16	66	21	16	16		12	10	8		3263E
90.005	16	55	22	16	15		12	10	8	F16/104	
177.001	17	73	23.3	15.4	15		12	10	8		
231.001	17.5	51	22	16	15	10	12	10	8	F17.46/79	125E
140.003	18	67	25	19.5	15		12	10	8	F18/85	
511.007	18	67	34.5	18	16		14	12	9		Star SJ15
225.003	20	54	26	19	15		14	12	9	F20/201	136E
40.004	20	67	28	21	16		15	13.5	10.5	F20/87	138E
90.006	20	60	27.5	20	15		15	13.5	10.5	F20/102	
231.002	22	55	30	21	15	10	14.5	13	10	F22/71	140E
90.007	22	66	32	25	16		15	13.5	10.5	F22/727	
140.004	22	67	28	23.5	13		15	13.5	10.5	F22/88	139E
511.004	23	62	29	22.5	16		16	13.5	10.5		Tsugami NP17,modif par 511.013
40.024	24	62	28.4	22	15		16	13.5	10.5	TF24	USA : Tsugami BO12, S16, BS18
40.017	25	75	35	0	16		14	12	9		051 Multibroche Tornos AS14
40.027	25	94	35	0	15.3		16	14	11		051 Multibroche Tornos SAS16



PINCES F			F- SPANZANGEN							F COLLETS		
Numéro	D	L	E	F	α	β						
40.005	25	77	35	27	16		17	14	11	F25/64	145E	
90.008	25	65	34	25	15		17	14	11			
511.002	26	67	36	28	14.5		20	17	13			
140.005	26	67	32	27.5	13		18	15	11			
511.001	26	67	36	28	16		20	17	13			
410.001	27	72.7	38	29	15		22	18	13			
511.014	28	77	35	27.5	16		17	14	11			
231.004	28	70	38	28	15	10	21	17	13	F28/93	148E	
40.006	30	80	42	34	16		21	17	13			
90.009	30	65	38	32	15		21	17	13	F30/101	1446E	
511.018	32	104	43	0	15		25	21	14			
231.005	32	75	45	34	15	10	25	21	14			
90.010	32	65	40	34	15		23	19	12			
511.018	32	80	43	33	15		23	19	12			
140.006	34	80	40	33.5	15		26	21	14			
40.007	34	80	44	37	16		24	19	12			
511.009	35	47	40.5	32	16		28	23	15			
40.008	37	92	47	40	16		32	27	17	F37/740	1536E	
90.011	38	86	50	38	15		32	27	17			
285.002	38	108	49	0	15		32	27	17			
140.007	39	80	46	39.5	15		32	27	17			
140.008	41	80	48	42	15		33	27	17			
231.007	42	94	55	42	15	10	33	27	17	F42/99	171E	
231.008	42	94	55	42	22.3	10	33	27	17			
511.024	43	92	53	46	16		38	33	26	F43/37		
511.026	44	93	52	46	16		38	33	26			
231.009	48	94	60	50	15	10	35	29	19	F48/81	173E	
511.028	48	100	54	44	15		38	33	26	F48/38		
231.010	66	110	87	73	15	10	50	40	27			



PINCES F

F- SPANZANGEN

F COLLETS

Numéro	D	L	E	F	α	β			
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CORRESPONDANCE DES NUMEROS

F7/206	1010E
F8/1079	-
F8/577	101E
F10/1178	111E
F10/86	109E
F13/357	116E
F15/358	121E
F15/580	120E
F16/1076	1212E
F16/104	123E
F18/85	127E
F20/87	138E
F20/102	1299E
F20/201	136E
F22/71	140E
F22/727	-
F25/64	145E
F25/91	144E
F28/93	148E
F30/63	157E
F30/101	1446E
F32/1023	-
F32/221	158E /161E
F34/1077	-
F34/356	-
F35/67	162E
F35/94	163E
F37/740	1536E
F38/742	-
F38/72	164E
F39/1208	-
F48/81	173E

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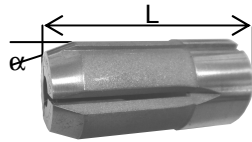


Fig. I

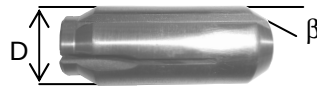
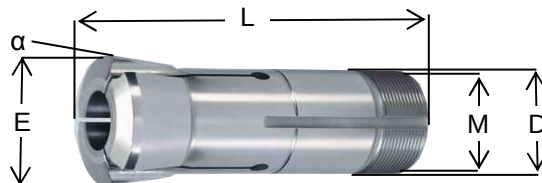


Fig. II

CANONS POUSES A		A-FÜHRUNGSBÜCHSEN				PUSH GUIDE BUSHINGS A	
Machines	Numéro	D	L	α	β		Fig.
BECHLER							
A4 - A7	101.001	8	30	30°	30°	3	II
A4 - A7 (Isomatic)	100.001	8.6	34	28°	28°	3	II
A7 - A10	104.001	16	40	30°	30°	8	II
A10	105.001	20	40	30°	30°	11	II
B12 - B16 - B20	107.001	30	60	29°	29°	18	II
B20	108.001	34	60	29°	29°	22	II
C26	110.001	42	72	29°	29°	26	II
C32	111.001	48	73	29°	29°	32	II
C35	112.001	51.8	72	29°	29°	35	II
GAUTHIER							
1 h R	200.001	15	30	15°	7		I
GM 12	201.001	20	35	15°	10		I
GM 20	202.001	27	44	15°	20		I
PETERMANN							
O	57.001	7	19	30°	45°	2.5	II
1	58.001	9	30	30°	45°	3.5	II
1R	58.002	12	30	30°	45°	6	II
P7	59.001	13	30	40°	45°	7	II
P7R	59.001	13	30	40°	45°	7	II
10 - 10HS	59.001	13	30	40°	45°	7	II
10 - 10HS	59.002	16	30	40°	45°	11	II
PETERMANN							
10R - 10HSR	59.003	22	42	40°	45°	14	II
2 - 2A	59.003	22	42	40°	45°	14	II
2A - P20	59.004	26	42	30°	45°	16	II
2AR - P20R	59.005	30	42	30°	45°	20	II
P25	59.006	34	48	30°	45°	25	II
STROHM							
M 45	2.001	9	30	19°	4.5		I
M 75 - M 105	150.001	15	35	19°	9		I
M 105 / 125	9.001	16	35	19°	9		I
M 205 / 255	16.001	28	45	29°	20		I
M 205 / 255	17.001	32	45	19°	25		I
TORNOS							
M4 - T4 - TV	2.001	9	30	19°	4.5		I
M7	6.001	11	30	19°	5		I
R10 - M10 - R125	9.001	16	35	19°	9		I
M15 - R16	15.001	24	42	19°	16		I

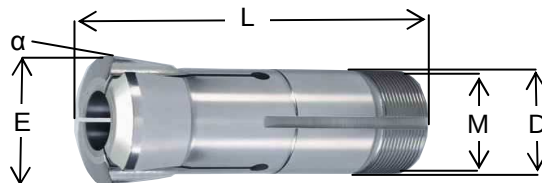
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CANON TIRE B - B FÜHRUNGSBÜCHSE - B GUIDE BUSHING - CAÑÓN TIRADO B - BUSSOLA B

Numéro	D	L	α	M	E	Max	Hex	4-K	Divers
255.002	7	24	16	6 x 0.5	9.5	3	2.5	2	
50.001	7	30	16	6 x 0.5	9.5	3.5	3	2.5	
1.001	9	44	16	8 x 0.5	12.5	4.5	4	3	
255.004	9	38	16	8 x 0.75	12.5	4.5	4	3	
263.001	9	38.5	16	8 x 0.75	12.5	4	3.5	2.5	
265.001	9	52	30	9 x 0.7	13	4.5	4	3	
351.001	9	50	30	8 x 0.6	12.3	4	3.5	2.5	
489.001	9	51	30	8 x 0.8	13	4	3.5	2.5	= Binetruy
4.001	9	53	16	8 x 0.75	18.5	4	3.5	2.5	
4.201A	9	50	30	9 x 0.7	12.8	4.5	4	3	
51.001	9	44	16	8 x 0.75	12.5	4	3.5	2.5	
52.001	9	34	30	8 x 0.75	11.5	4	3.5	2.5	
60.001	9	25	30	6 x 0.5	11.5	4	3.5	2.5	10
258.001	10	60.7	6	1/8 x 28F	13.1	6	5	4	12 101
31.001	10	66	30	10 x 0.75	14.5	6	5	4	101
38.001	10	56.5	36	10 x 1	14	4	3.5	2.5	Magic
494.001	10	58	12	10 x 0.75	12	6.5	-	-	Esco New Mach 647
202	11	53.5	16	10 x 0.75	15	6	5	4	
3.001	11	53	16	10 x 0.75	14.5	6	5	4	
498.001	11	53	16	10 x 0.8	14.5	6	5	4	= Meister 1352
352.001	11	50	30	10 x 0.6	15	7.5	6.5	5	
482.001	11	53	16	10 x 0.75	14.6	6	5	4	
5.001	11	53	16	10 x 0.75	14.5	7	6	4.5	Renforcé
80.001	11	61	22	11 x 1	16	7	6	4.5	NSA25
80.002	11	61.5	22	11 x 1	16	7	6	4.5	NSA32
80.005	11	65.3	22	11 x 1	16	7	6	4.5	NSA25 spec execution
261.001	12	52	30	12 x 1	15	7	6	4.5	
277.001	12	50	16	10 x 0.75	14.8	7	6	4.5	Clav.=2x1 prof.# 53.001
278.001	12	50	16	12 x 1	14.8	7.5	6.5	5	
33.001	12	69.5	30	12 x 0.75	15.5	7.5	6.5	5	
53.001	12	50	16	10 x 0.75	15.5	7	6	4.5	Clav.=2x1.5 prof. =277.001
67.001	12	50	16	12 x 1	15.5	7.5	6.5	5	
113.001	13	41.5	15	12.5 x 0.75	16	9	8	6	
45.001	13	68	36	13 x 1	17	7.5	0	0	Magic
11.001	14	63.5	16	13 x 0.75	18	9.5	8	6	
12.001	14	64	16	13 x 0.75	18	9.5	8	6	8
480.001	14	62	15.5	14 x 1	20	9	7.5	6	
484.001	16	50	16	14 x 1	20	10	8.5	6.5	
167.001	16	55	30	16 x 1	20	9.5	8	6	
173.001	16	60	30	14 x 1	19.8	10	8.5	6.5	
255.010	16	45	16	14 x 1	19.8	10	8.5	6.5	
490.001	16	51.4	30	16 x 0.75	19.9	10	8.5	6.5	= Binetruy

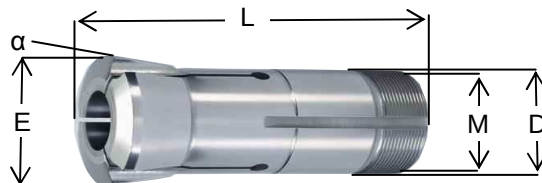
NEUKOMM



CANON TIRE B - B FÜHRUNGSBÜCHSE - B GUIDE BUSHING - CAÑÓN TIRADO B - BUSSOLA B

Numéro	D	L	α	M	E	Max	Hex	4-K	Divers
4.203	16	55	30	16 x 1	20	10	0	0	
481.001	16	63	15.5	14 x 1	20	10	8.5	6.5	
500.001	16	64	16	14 x 1	20	10	8.5	6.5	
520.001	16	65	26	16 x 1	20.5	11	9.5	7	
54.001	16	58	16	14 x 1	19.8	10	8.5	6.5	
55.001	16	59	16	14 x 1	21	10	8.5	6.5	
8.001	16	59	16	14 x 1	20.5	10	8.5	6.5	
8.001R	16	59	16	16 x 1	20.5	12	10	8	Renforcé
166.001	18	60	30	16 x 1	21.8	12.7	11	9	
171.001	18	60	30	18 x 1	21.8	12.7	11	9	
174.001	18	60	30	18 x 1	22	14	11.5	9	
40.031	18	100	20	18 x 1	21.5	12.7	11	8.5	TOP 100
46.001	18	68	36	18 x 1	24	12.7	11	8	Magic
81.001	18	76	22	18 x 1	22	12.7	11	8.5	NSA32
120.001	20	55	30	20 x 1	25	12.7	11	8	
37.001	20	43.5	20	20 x 1	25	13	11	8.5	
43.001	20	58	30	20 x 1	25	14.5	12.5	9.5	1
49.001	20	46	20	20 x 1	26	14.5	12.5	9.5	1
12	21	56.4	12	18 x 1	24	15	13.5	10.5	
23.001	21	74	10	21 x 1	29	18	15	10	
450.001	21	57.4	12.5	18 x 1	24	14	12	9	
13.001	22	68	16	19 x 1	29	14	12	9	*Clav. 2.5x1.4 prof.-> p.280.001
466.001	22	68.5	15.3	19 x 1	29	14	12	9	280.001& 56.001/al.norm.=14.
487.001	22	70	15	20 x 1	26	14	12	9	
280.001	22	68	16	19 x 1	29	15	13	10	**Clav. 3x1.5 prof. OK p. 280.001
39.001	22	68	16	22 x 1	29	16	14	10	Renforcé
56.001	22	68	16	19 x 1	29	15	13	10	Clav. 3x2.2 prof. OK-->280.001
82.001	22	73	22	22 x 1	27	16	13	10	NSA36
483.001	23	72	16	22 x 1	28	17	14	11	
186.001	24	60	8	24 x 1.25	28.3	16	13	10	
223	24	61	30	24 x 1	30	17	14	11	
61.002	24	61	30	24 x 1	30	17	14	11	
491.001	25	71	30	25 x 1	30	16	13	10	
411.001	25	63	15	20 x 1.5	32	14	12	9	
400	26	64	8	26 x 1.5	30	18	15	11	
99.001	26	77	16	25 x 1	29	20	17	13	
493.001	27	67.5	12	24 x 1	30	16	14	11	
121.001	27	81	30	25 x 1	38	19	16	12	
13	27	57.5	12	24 x 1	30	18	15	11	C21-5-13 Bechler
10.001	28	53	20	28 x 1	33	20	0	0	1
18.001	28	81	30	25 x 1	38	20	17	13	
185.001	28	69	20	28 x 1	36	19	16	11	

NEUKOMM

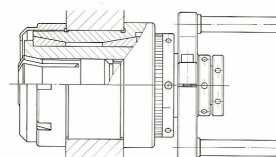


CANON TIRE B - B FÜHRUNGSBÜCHSE - B GUIDE BUSHING - CAÑÓN TIRADO B - BUSSOLA B

Numéro	D	L	α	M	E	Max	Hex	4-K	Divers
22.001	28	82	16	25 x 1	34	20	17	13	
22.010	28	82	16	27 x 1	34	22	18	14	
486.001	30	70	16	28 x 1	36	23	19	13	
516.001	30	85	16	28 x 1	37	23	19	13	
47.005	30	73	19	22 x 1	16	20	17	13	Magic
510.001	30	59	15	30 x 1	35	23	19.6	15	Takamaz
485.001	32	70	30	32 x 1	39	0	0	0	*282.001 clav. 2.5 prof
282.001	32	71	30	32 x 1	39.8	21	0	0	
40.032	34	150	20	32 x 1	42	20	17	13	TOP 200
451.001	34	87.5	10	34 x 1	41	27	23	15	
42.001	36	73.5	19	27 x 1	43	27	23	15	Magic , M Gauche
32.001	38	57	20	38 x 1.25	46	30	25	19	1
465.001	38	85	15.3	34 x 1	46	25	19	14	
210.001	40	72	12	38 x 1	45	30	25	19	
14	40	65	12	38 x 1	45	32	27	20	
172.001	40	72	30	36 x 1	47.8	32	27	20	
4.209	40	65	30	40 x 1		22	18	14	
61.001	40	72	30	40 x 1	48	28	24	15	
488.001	41	54	10	38 x 1	46	32	27	20	
28.001	42	82	16	40 x 1	49	32	27	20	
28.010	42	82	20.5	40 x 1	49	32	27	20	
27.001	44	87	20	40 x 1	53	32	27	20	
40.030	44	166	20	42 x 1.5	53	32	27	20	
250.001	45	82	16	45 x 1	52	38	33	26	T245 / B250
467.001	46	92	16	45 x 1	53	38	33	26	
19.001	48	65	20	48 x 1.25	58	28	24	18	1
115.001	48	81	30	48 x 1.25	56	38	32.2	25	
464.001	48	82	16	46 x 1	54	38	32	25	
496.001	48	81	10	46 x 1	54	38	32	25	
36.001	50	95	15	50 x 1	60	30	25	20	
41.001	54	67	17	54 x 1.25	62	52	44	34	

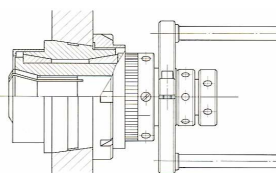


BECHLER	C21	CANON	D	L	α	○	H	□	G
A4-7-10	C21-30-10	B 113.001	13	41.5	15°	9	7.5	6	
A4-7-10	C21-5-11	A 104.001	16	40	30°	8	6.5	5.5	
B12-16-20	C21-5-12	B 12	21	57.5	12°	12	10	8.5	
BR20-B12-16-20	C21-5-13	B 13	27	57.5	12°	19	16	11	
B12-16-20	C21-5-15	A 107.001	30	60	29°	19	16	11	
CR-32	C21-7-14	B 14	40	65	12°	32	28	18	
GAUTHIER	C21	CANON	D	L	α	○	H	□	G
GM 75	C21-31-50	B 11.001	14	63.5	16°	9.5	8	6	
GM 75	C21-31-51	A 200.001	15	30	15	7	6	4.5	
GM 127	C21-31-54	B 11.001	14	63.5	16°	9.5	8	6	
GM 127	C21-31-55	A 200.001	15	30	15	7	6	4.5	



G = Entraîneur à engrenage/Zahnrad Mitnehmer/Gear Driver/Ruota dentata

PETERMANN	C21	CANON	D	L	α	○	H	□	G
P 4	C21-1-100	B 1.001	9	44	16°	5	4	3	
P 7 - P 7 R	C21-3-101	B 166.001	18	60	30°	12.7	11	9	
P 7 - P 7 R	C21-3-102	B 11.001	14	63	16°	9.5	8	6	
P 7 - P 7 R	C21-3-103	B 8.001	16	59	16°	10	9	7	
P 7 - P 7 R	C21-3-104	A 59.001	13	30	40°	6.5	5.5	4.5	
10 HS	C21-4-105	B 13.001	22	68	16°	14	12	9	
P 16 - P 16 R	C21-5-106	B 61.002	24	61	30°	17	14.5	11	
2 AR	C21-6-107	A 59.005	30	42	30°	20	17	13	
P 16 R	C21-6-110	B 282.001	32	71	30°	21	17.5	13.5	
P 25	C21-7-108	B 172.001	40	72	30°	32	28	18	
STROHM	C21	CANON	D	L	α	○	H	□	G
M45	C21-1-150	B 265.001	9	52	30°	4.5	4	3	
M75-M105-M125	C21-3-151	B 166.001	18	60	30°	12.7	11	9	
M75-M105-M125	C21-3-152	B 11.001	14	63	16°	9.5	8	6	
M75-M105-M125	C21-3-153	B 8.001	16	59	16°	10	9	7	
M205-M255	C21-7-156	A 150.001	15	35	19°	9	7.5	6	
M205-M255	C21-7-156	B 172.001	13	30	40°	32	28	18	



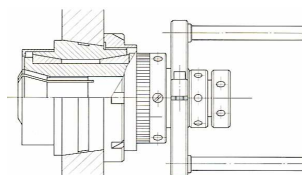
Les articles en gras sont standards/



TORNOS	C21	CANON	D	L	α	$\bigcirc$	H	$\square$
T4 - M4 - TV	C21-1-200	B 1.001	9	44	16°	4.5	4	3
T4 - M4 - TV	C21-1-201	A 2.001	9	30	19°	4.5	4	3
M7	C21-2-202	B 202	11	53.5	16°	6	5	4
M7	C21-2-203	B 3.001	11	53	16°	6	5	4
M7	C21-2-205	A 6.001	11	30	19°	5	4	3
M7 poupée à arrêtage 2 chiens 6WA, Dia. nez = 30.00mm / Spindelstop								
M7 poupée à arrêtage 3 chiens 6YB, Dia. nez = 32.00mm / Spindelstop								
R10 - R125 - MS7	C21-3-206	B 8.001	16	59	16°	10	8.5	6.5
R10 - R125 - MS7	C21-3-207	B 11.001	14	63.5	16°	9.5	8	6
R10 - R125 - MS7	C21-3-208	B 166.001	18	60	30°	12.7	11	9
R10 - R125 - MS7	C21-3-210	A 9.001	16	35	19°	10	8.5	6.5
MS7-Nez poupée D 34			R10-Nez poupée D37					
M15	C21-4-214	B 23.001	21	74	10°	18	15	10
M15	C21-4-215	B 13.001	22	68	16°	14	12	9
M15	C21-4-216	A 15.001	24	42	19°	16	13	10
R16	C21-4-217	B 23.001	21	74	10°	18	15	10
R16	C21-4-218	B 13.001	22	68	16°	14	12	9
R16	C21-4-219	A 15.001	24	42	19°	16	13	10
R16	C21-4-220	B 23.001	21	74	10°	18	15	10
R16	C21-4-221	B 13.001	22	68	16°	14	12	9
R16	C21-4-222	A 15.001	24	42	19°	16	13	10
RR20	C21-5-223	B 223	24	61	16°	17	16	12
RR20	C21-5-224	B 223	24	61	16°	17	16	12
R20 - M20	C21-6-225	B 451.001	34	87.5	10°	27	23	15
R20 - M20	C21-6-226	A 17.001	32	45	19°	25	20	15
M25 - 28	C21-6-227	B 451.001	34	87.5	10°	27	23	15
M25 - 28	C21-6-228	A 17.001	32	45	19°	25	20	15
MR32	C21-7-229	B 28.001	42	82	16°	32	28	18

G = Entraîneur à engrenage/Zahnrad Mitnehmer/Gear Driver/Ruota dentata

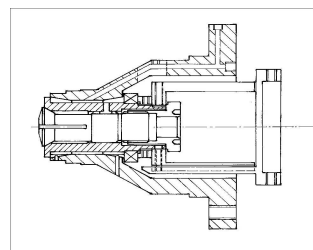
TORNOS	C21	CANON	D	L	α	$\bigcirc$	H	$\square$
DECO 10	C21-3-238	B 8.001	16	59	16°	10	8.5	6.5



G
G
G



TSUGAMI	C21	CANON	D	L	α	$\bigcirc$	H	$\square$
NT-NP11	C21-3-180	B 166.001	18	60	30°	12.7	11	9
NT-NP11	C21-3-183	B 171.001	18	60	30°	12.7	11	9
NT-NP20	C21-5-181	B 18.001	28	81	30°	20	17	13

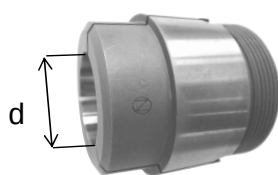


Les articles en gras sont standards/



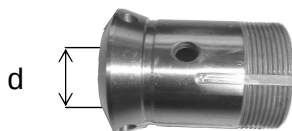
Machine	RB		CANON	D	L	α	$\emptyset$	6-K	∇
TORNOS									
Elector 16, ENC162-164	RB 3019	B	61.002	24	61	30°	17	14.5	11
ENC 167	RB 3167	B	18.001	28	81	30°	20	17	13
MANURHIN									
Traminer 13	RB 3500	B	166.001	18	60	30°	12.7	11	9
Traminer 16	RB 3501	B	13.001	22	68	16°	14	12	9
Traminer 20	RB 3501	B	18.001	28	81	30°	20	17	13
Decoturn 16	RB 3750	B	39.001	22	68	16°	16	14	10
KMX 20	RB 3550	B	18.001	28	81	30°	20	17	13
Mirabel 32	RB 3701	B	28.001	42	82	16°	32	28	18
Mirabel 32	RB 3702	B	28.001	42	82	16°	32	28	18
INDEX									
GE 42 NC	RB 3601	B	166.001	18	60	30°	12.7	11	9
GE 42 NC	RB 3600	B	172.001	13	30	40°	32	28	18
STAR									
SNC 15	RB 3800	B	450.001	21	57.4	12.3°	15	12	10
SNC 15	RB 3805	B	450.001	21	57.4	12.3°	15	12	10
SNC 25	RB 3801	B	451.001	34	87.5	10°	27	23	15
	RB 3800 diamètre extérieur cylindrique								
	RB 3805 diamètre extérieur cône								
TAKAMAZ									
Attack	RB 3400	B	61.002	24	61	30°	17	14.5	11

MANCHON PORTE-CANON
BÜCHSENHALTERHÜLSE
BUSH-HOLDER



	PORTE-CANON	BüCHSENHALTER	BUSH-HOLDER							
MACHINE	Pour Für For	Manchon B-Halter Holder	D	L	d	α	M	Ecrou Mutter Nut	E	F
<u>STROHM</u>										
M125	Douille 166.002	MPD/166005	36 37	22	22	2°50'	36x1	ECM/166006	47	5
<u>TORNOS</u>										
M7	Douille 3.002	MPD/3005	38	38	15	3°	36x1	3.006	45	5
MS7-R10-R125	Douille 8.002	MPD/8005	42	38	22	3°	36x1	ECM/166006	47	5
M15	Douille 13.002	MPD/13005	52	45	32	3°	45x1	13.006	60	8
RR20	Douille 13.002	MPD/13008	61	56	32	2°	56x1	ECM/13009	69	10
R10	Douille 54.002	MPD/35001	42	55	20	3°	38x1	35.002	48	6
MS7	Douille Magic	MPD/45005	42	38	18	3°	36x1	ECM/166006	47	5
MS7-spécial VN5A	Douille Magic	MPD/45005A15	42	38	18	3°	36x1	ECM/166006	47	5
MR32	Douille 28.002	Tornos TB2585	70	65	52	2°	72x1	C21-7-229-15	85	15

PINCE PORTE-CANON - PORTE-DOUILLE
BÜCHSEN-, HÜLSENHALTER ZANGE
BUSH-, SLEEVE-HOLDER COLLET



MACHINE	Pour Für For	Pince Spannzange Collet	D	L	d	M	Ecrou Mutter Nut
<u>TORNOS</u>							
M4-T4-TV	Douille B 1.002	PPF/620039D13.000A	17	36	13	17x1	
R10	Douille B166.002	PPF/620.041D22.000A	28	40	22	28x1	620.049
	+ B8.002	= Tornos 11663					= Tornos 11661
	Douille B 45.002	PPF/620040D18.000A	23	45	18	23x1	620.048
		= Tornos 11707					= Tornos 11708
M7	Douille 3.002	CTB/037001D15.00A	20	43	15	20x1	37.003
		CTB/037001D16.00A	20	43	16	20x1	



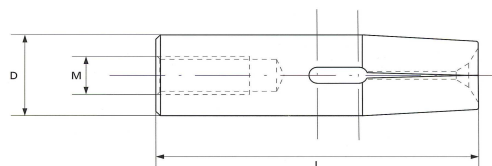
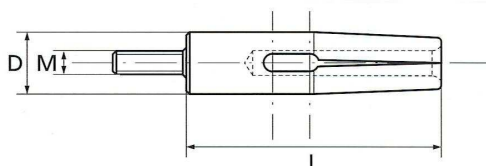
PINCES RAVITAILLEURS

SPANNFINGER

BARLOADERS COLLETS

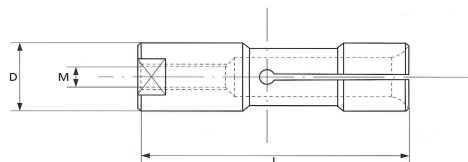
Tornos Super Télébar and Barboy - Caddie - Bechler - IEMCA - Cucchi - FMB - Robobar
Traub - Hagenuk - LNS - LNS Tryton - Sameca

Tornos Super-Télébar et Barboy



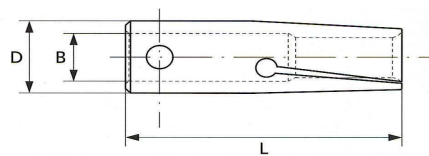
No Article Artikel nr Article nr	D (mm)	d	Filet Gewinde Thread	M	L	Alés. Bohrung Bore
SPHT 45	4.5	M3	Extérieur	M3	31	0.8 - 3.5
SPHT 55	5.5	M3	Extérieur	M3	31	0.8 - 4.5
SPHT 75	7.5	7.5	Intérieur	M4	30	1 - 6
SPHT 75 RFC	7.5	7.5	Intérieur	M4	30	6-6.5
SPHT 85	8.5	8.5	Intérieur	M5	30	1 - 7
SPHT 85 RFC	8.5	8.5	Intérieur	M5	30	6.5-7.5
SPHT 105	10.5	10.5	Intérieur	M6	35	1 - 9
SPHT 105 RFC	10.5	10.5	Intérieur	M6	35	8.5-9.5
SPHT 12	12	12	Intérieur	M6	35	1.5 - 11
SPHT 12 RFC	12	12	Intérieur	M6	35	10-11
SPHT 135	13.5	13.5	Intérieur	M6	35	3-12
SPHT 135 RF	13.5	13.5	Intérieur	M6	35	10-12.5
SPHT 15	15	15	Intérieur	M6	35	2-13
SPHT 165	16.5	16.5	Intérieur	M8	35	3-15
SPHT 205	20.2	20.5	Intérieur	M8	35	3-19

Cucchi



No Article Artikel nr Article nr	D (mm)	L(mm)	M	Alés. Bohrung Bore
SPHG 10	10	52	M6x0.75	1-8.9
SPHG 12	12	52	M7x0.75	1-10.9
SPHG 14	14	52	M8x1	2-12.80
SPHG 16	16	52	M8x1	3-14.80
SPHG 19	19	60	M10x1	3-17.5
SPHG 25	25	60	M14x1	
SPHG 30	30	65	M18x1.5	
SPHG 40	40	70	M25x1.5	

FMB - ROBOBAR - TRAUB - HAGENUK - IEMCA - LNS - SAMECA



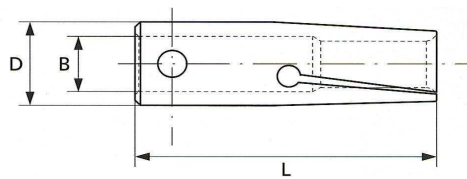
No Article Artikel nr Article nr	D (mm)	L (mm)	G	Alés. Bohrung Bore
SPH 07	7	37	M5	1 - 5.5
SPH 07 RFC	7	37	M5	5.6-6
SPH 10	10	40	7	1-8.5
SPH 10 RFC	10	40	7	8.6-9
SPH 12	12	40	8	1-10
SPH 12 RFC	12	40	8	10.1-11
SPH 15	15	40	11	1-13.5
SPH 15 RFC	15	40	11	13.6-14
SPH 16	16	40	11	2-14.5
SPH 16 RFC	16	40	11	14.6-15
SPH 18	18	40	11	2-16.5
SPH 18 RFC	18	40	11	16.6-17
SPH 20	20	65	14	4-18
SPH 20 RFC	20	65	14	17.6-18
SPH 25	25	65	20	6-23.5
SPH 25 RFC	25	65	20	23.6-24
SPH 30	30	65	20	20-27.5
SPH 30 RFC	30	65	20	27.6-28
SPH 32	32	65	20	20-29
SPH 32 RFC	32	65	20	29.10-30
SPH 34	34	90	20	20-31
SPH 34 RFC	34	90	20	31.1-32
SPH 36	36	90	20	20-33
SPH 36 RFC	36	90	20	33.1-34
SPH 38	38	90	20	20-35
SPH 38 RFC	38	90	20	35.1-36
SPH 40	40	90	20	20-37
SPH 40 RFC	40	90	20	37.1-38
SPH 42	42	90	20	20-39
SPH 42 RFC	42	90	20	39.1-40

DIMENSIONS SPÉCIALES

SPH 05	5	37	M4	1-4
SPH 13	13	40	8	2-11.5
SPH 13 RFC	13	40	8	11.6-12
SPH 14	14	40	*	3-12.5
SPH 14 RFC	14	40	*	12.6-13
SPH 17	17	40	11	4-15.5
SPH 17 RFC	17	40	11	15.6-16
SPH 19	19	40	11	8-16.5
SPH 19 RFC	19	40	11	16.6-17
SPH 21	21	65	14	12-18.5
SPH 21 RFC	21	65	14	18.6-19
SPH 22	22	65	14	4-20.5
SPH 22 RFC	22	65	14	20.6-21

NEUKOMM

FMB - ROBOBAR - TRAUB - HAGENUK - IEMCA - LNS - SAMECA

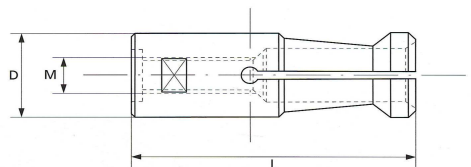


No Article Artikel nr Article nr	D (mm)	L (mm)	G	Alés. Bohrung Bore
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DIMENSIONS SPÉCIALES

SPH 23	23	65	14	5-21.5
SPH 23 RFC	23	65	14	21.6-22
SPH 24	24	65	14	15-21.5
SPH 24 RFC	24	65	14	21.6-22
SPH 26	26	65	20	20-23.5
SPH 26 RFC	26	65	20	23.6-24
SPH 27	27	65	20	20-24.5
SPH 27 RFC	27	65	20	24.6-25
SPH 28	28	90	20	20-25.5
SPH 28 RFC	28	90	20	25.6-26

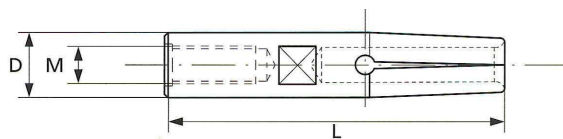
IEMCA



No Article Artikel nr Article nr	D (mm)	L (mm)	G	Alés. Bohrung Bore
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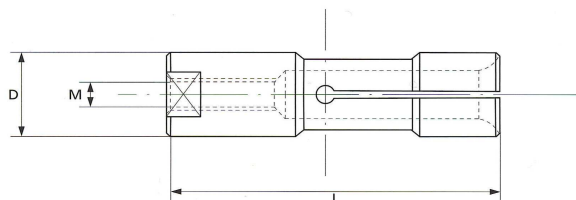
SPHI 55	5.5	37	M4x0.5	1 - 4.4
SPHI 07	7	40	M5x0.5	1 - 5.9
SPHI 75	7.5	40	M5x0.5	1 - 6.4
SPHI 10	10	40	M6x0.75	1 - 8.9
SPHI 12	12	42	M7x0.75	1 - 10.9
SPHI 15	15	42	M8x1	2 - 13.8
SPHI 16	16	42	M8x1	3 - 14.8
SPHI 18	18	42	M8x1	3 - 16.5
SPHI 20	20	59	M10x1	3 - 18.5
SPHI 25	25	59	M10x1	6 - 21.5
SPHI 27	27	59	M10x1	6 - 23.5

LNS Tryton - série 2000



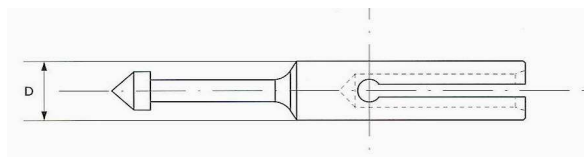
No Article Artikel nr Article nr	D (mm)	L (mm)	G	Alés. Bohrung Bore
SPHL 06	6	30	M4	
SPHL 07	7	30	M5	
SPHL 10	10	30	M5	
SPHL 12	12	30	M6	
SPHL 125	12.5	30	M6	
SPHL 165	16.5	35	M8	
SPHL 17	17	35	M8	
SPHL 20	20	35	M10	
SPHL 22	22	35	M10	
SPHL 25	25	35	M10	
SPHL 30	30	35	M10	

Caddie



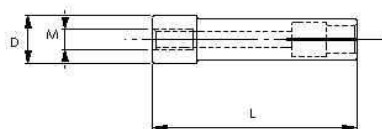
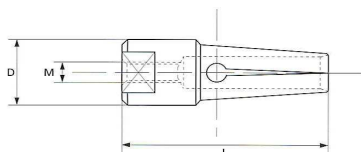
No Article Artikel nr Article nr	D (mm)	d	M	Alés. Bohrung Bore
ERC 0850	8.5	72	M5	2 - 7
ERC 0950	9.5	72	M6	2 - 8
ERC 1050	10.5	72	M6	3 - 9
ERC 1200	12	72	M6	4 - 10.5
ERC 1250	12.5	72	M6	4 - 11
ERC 1350	13.5	72	M6	4 - 12
ERC 1500	15	92	M6	5 - 13
ERC 1600	16	92	M8	5 - 14.5
ERC 1650	16.5	92	M8	5 - 14.5

Attaches télébar Tornos



No Article Artikel nr Article nr	D (mm)	Alés. Bohrung Bore
SPHTE 45	4.5	0.90-3.50
SPHTE 55	5.5	0.90-4.50
SPHTE 75	7.5	1.00-6.50

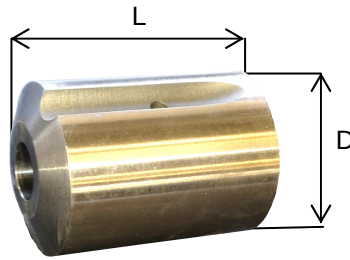
Multibar Bechler



Version longue

No Article Artikel nr Article nr	Type	D (mm)	L(mm)	M
SPHB 45	320	4.5	22	M2.5
SPHB 50	3000-H	5	22	M3
SPHB 55	65-5.5	5.5	22	M3.5
SPHB 70	65/73	7	22	M4
SPHB 10	65/73	10	26	M5
SPHB 12C	65/73	12	26	M5
SPHB 12L	12 longue	12	60	M5
SPHB 16C	16 courte	16	30	M6
SPHB 16L	16 longue	16	60	M6
SPHB 20C	20 courte	20	30	M8x1
SPHB 20L	20 longue	20	60	M8x1

NEUKOMM



CANONS FIXES O	O FESTE FÜHRUNGSBÜCHSE	FIXE GUIDE BUSHINGS O		
Machines	Numéro	D	L	
BECHLER				
A4 - A7	34.001	13	25	7
A7 - A10	62.003	16	30	10
A7 - A10	131.003	34	34	22
B21 - B16 - B20	131.004	56	60	30
C26 - C32	131.005	77	80	32
GAUTHIER				
1 h	221.001	12	20	4
1 H R	221.002	20	26	14
GM 12	221.003	25	30	16
GM20	221.004	30	35	20
PETERMANN				
O - P3	62.001	10	12	4.5
1 - P4	34.001	13	25	8
1R - P7 - P7R	62.003	16	30	10
10 - 10HS	62.009	20	28	14
2-10-10R-10HS-10HSR	62.004	25	34	16
2A - 2AR - 2B - P2	62.005	35	35	22
P16	62.006	35	45	18
P16R	34.005	40	45	20
P25	62.007	50	46	30
STROHM				
M 45	168.001	10	18	5
M 75 - M 105	168.002	15	30	10.5
M 105 / 125	168.003	20	30	13
M 205 / 255	168.004	32	45	22
M 205 / 255	34.007	36	45	26
TORNOS				
M4 - T4 - TV	34.001	13	25	4.5
M7	34.002	15	25	7
R10 - R125	34.003	22	35	13
M15 - R16 - RR20	34.004	32	35	20
M20	34.005	40	45	22
R20	34.007	36	45	22
M25 - 28	34.006	40	45	28
MR32	34.008	52	60	32


DOUILLES ET ECROUS
HÜLSEN UND MUTTERN
SLEEVES AND NUTS

Marque	Machine	Canon B	Douille	D	L	d	Ecrou	a	b	c	M	Fig
Bechler	A4 - A7	1.001	1.002	13	39	9	1.003	9.7	11	0	8 x 0.5	1
Bechler	A4 - A7	1.001	1.002	13	39	9	1.005	9.7	25	11.5	8 x 0.5	1
Bechler	A7 - A10	261.001	261.002	15	42	12	261.003	14.5	16	0	12 x 1	1
Bechler	A10	120.001				20	120.003	28	12	28	20 x 1	2*
Bechler	A10	120.001				20	165.003	22	6	30	20 x 1	2*
Bechler	A7 - A10	13.001	13.002	32	63	22	13.003	23.7	25	0	19 x 1	1
Bechler	A7 - A10	18.001	18.002	40	71	28	18.003	33.5	23	0	25 x 1	1
Bechler	C26 - B16 - B20	115.001	115.002	77	65	48	115.003	59	24	74	48 x 1.25	2
2* Ecrou avec vis de blocage/Mit Festdruckschraube/With blocking screws												
Bechet	RM 7	277.001	277.002	15	38	12	277.003	14.5	17	0	10 x 0.75	1
Bechet	RM 10	54.001	54.002	20	56	16	8.003	16.5	20	0	14 x 1	1
Bechet	RM 19 / 25	282.001	261	15	42	12	261.003	14.5	16	0	12 x 1	1
Citizen	D 10	8.001	8.002	22	52	16	8.003	16.5	20	0	14 x 1	1
Citizen	F 12	166.001	166.002	22	44	18	166.003	20	15	0	16 x 1	1
Citizen	F 16	61.002	61.004	35	62	24	61.005	28	2.5	32.8	24 x 1	2
Citizen	F25	451.001	451.002	56	73	34	451.003	40	14	55	34 x 1	2
Citizen	E 32	28.001	28.002	52	70	42	28.003	44.5	20	50	40 x 1	1
Gauthier	1 h R	54.001	54.002	20	56	16	8.003	16.5	20	0	14 x 1	1
Gauthier	GM 12	8.001	55.002	25	56	14	8.003	16.5	20	0	14 x 1	1
Gauthier	GM 20	13.001	56.002	30	64	22	13.003	23.7	25	0	19 x 1	1
Petermann	O - P3	50.001	50.002	10	24	7	50.003	8	4	0	6 x 0.5	1
Petermann	1 - P4 - P7	51.001	1.002	13	39	9	51.003	9.7	11	0	8 x 0.75	1
Petermann	1 - P4 - P7	51.001	1.002	13	39	9	51.005	9.7	25	11.5	8 x 0.75	1
Petermann	P7R - 10 - 10 HS	54.001	54.002	20	56	16	8.003	16.5	20	0	14 x 1	1
Petermann	10R - 10 HSR	8.001	8.002	22	52	16	8.003	16.5	20	0	14 x 1	1
Petermann	10R - 10 HSR - 2A	13.001	56.002	30	64	22	13.003	23.7	25	0	19 x 1	1
Petermann	P16	61.002	61.004	35	62	24	61.005	28	2.5	32.8	24 x 1	2
Star	SW7	3.001	3.002	15	50	11	3.003	11.7	17	0	10 x 0.75	1
Star	SNC 10DX	8.001	454.002	26	60	16	454.003	17.7	25	25	14 x 1	2
Star	SNC 15DX	450.001	450.002	42	66	21	450.003	12.7	19	0	10 x 0.75	2
Star	SNC 15DX	39.001	453.002	42	66	22	453.003	29.7	22	40	22 x 1	2
Star	JNC16, RNC16A/B	450.001	450.002	42	66	21	450.003	12.7	19	0	10 x 0.75	2
Strohm	M105 / 125	166.001	166.002	22	44	18	166.003	20	15	0	16 x 1	1
Strohm	M205 / 255	13.001	13.002	32	63	22	13.003	23.7	25	0	19 x 1	1
Strohm	M205 / 255	172.001	172.002	50	53	40	172.003	38	25	0	36 x 1	2
Strohm	M205 / 255	172.001	172.002	50	53	40	172.008	49	10	0	36 x 1	2*

2* Ecrou avec vis de blocage/Mit Festdruckschraube/With blocking screws

NEUKOMM



DOUILLES ET ECROUS

HÜLSEN UND MUTTERN

SLEEVES AND NUTS

Marque	Machine	Canon B	Douille	D	L	d	Ecrou	a	b	c	M	Fig
Tornos	M4 - T4 - TV	1.001	1.002	13	39	9	1.003	9.7	11	0	8 x 0.5	1
Tornos	M4 - T4 - TV	1.001	1.002	13	39	9	1.005	9.7	25	11.5	8 x 0.5	1
Tornos	M7	3.001	3.002	15	50	11	3.003	11.7	17	0	10 x 0.75	1
Tornos	M7	3.001	3.002	15	50	11	3.007	11.7	30	14.5	10 x 0.75	1
Tornos	M7	3.001	3.002	15	50	11	3.009	11.7	15	14	10 x 0.75	1
Tornos	M7	5.001	5.002	15	50	11	3.003	11.7	17	0	10 x 0.75	1
Tornos	R10-M10-R125-MS7	8.001	8.002	22	52	16	8.003	16.5	20	0	14 x 1	1
Tornos	R10-M10-R125-MS7	166.001	166.002	22	44	18	166.003	20	15	0	16 x 1	1
Tornos	R10-M10-R125-MS7	166.001	166.002	22	44	18	166.008	21.8	12	30	16 x 1	2*
Tornos	R10-M10-R125-MS7	166.001	166.002	22	44	18	166.010	20	25	0	16 x 1	1
Tornos	R10-M10-R125-MS7	166.001	166.002	22	44	18	166.011	20	45	0	16 x 1	1
Tornos	R10-M10-R125-MS7	171.001	166.002	22	44	18	171.003	22	19.5	0	18 x 1	1
Tornos	R10-M10-R125-MS7	171.001	166.002	22	44	18	171.013	21.7	14.2	0	18 x 1	1
Tornos	M15 - R16 - RR20	13.001	13.002	32	63	22	13.003	23.7	25	0	19 x 1	1
Tornos	M15 - R16 - RR20	39.001	39.002	32	63	22	39.003	25.5	25	0	22 x 1	1
Tornos	M20 - M25 / 28	18.001	18.002	40	71	28	18.003	33.5	23	0	25 x 1	1
Tornos	R20	22.001	22.002	36	70	28	22.003	28.5	20	0	25 x 1	1
Tornos	MR32	27.001	27.002	56	70	44	27.003	48	20	54	40 x 1	1
Tornos	MR32	28.001	28.002	52	70	42	28.003	44.5	20	50	40 x 1	1
Tornos	MR32	28.001	28.002A	56	70	42	28.003	44.5	20	50	40 x 1	1
Tornos	Deco 7	3.001	3.002	15	50	11	3.003	11.7	17	0	10 x 0.75	1
Tornos	Deco 10	8.001	8.002	22	52	16	8.003	16.5	20	0	14 x 1	1
2* Ecrou avec vis de blocage/Mit Festdruckschraube/With blocking screws												
Tsugami	NP-4W	3.001	3.002	15	50	11	3.003	11.7	17	0	10 x 0.75	1
Tsugami	NT/NP-11	166.001	166.002	22	44	18	166.003	20	15	0	16 x 1	1
Tsugami	NT/NP-17	61.002	61.004	35	62	24	61.005	28	2.5	32.8	24 x 1	2
Tsugami	NP-16	61.002	61.006	32	62	24	61.005	28	2.5	32.8	24 x 1	2