



APPLICATION

Application: Rotary machining of cylindrical workpieces, adapter plates, disks, shafts
 Designed for: Automatic clamping horizontal and vertical turning machines

TYPE

Clamping cylinders without through-hole for actuation pressures from 8-80 bar.

CUSTOMER BENEFITS

- ⊕ Up to 80 bar operating pressure for high clamping force (1160 psi)
- ⊕ short design
- ⊕ Rigid piston design
- ⊕ Large selection of compatible power chucks
- ⊕ Spindle connections compatible with cylinders made by SMW AUTOBLOK

TECHNICAL FEATURES

- Stroke control by means of inductive proximity system or linear path measuring system F90, fastened on the machine side; (stroke control system not included in the scope of delivery)
- For its actuation, we recommend hydraulic oil H-LP 32, DIN 51525 (32 centistokes at 40° Celsius)
- Insert a filter unit (10 µm) between the pump and control valve
- For description of clamping monitoring and equipment description see catalog

ID no.	443472 ▲	443473 ▲	443474 ▲	443475	443476 ▲	443477 ▲	443478 ▲
Size	70	85	100	125	150	175	200
Piston stroke [mm]	40	32	32	40	40	45	50
Max. operating pressure [bar]	80	80	80	80	80	80	80
Min. operating pressure [bar]	8	8	8	8	8	8	8
Max. clamping force [kN] tension/pressure	25/23	40/38	53/55	82/85	126/129	180/170	224/238
Max. speed [rpm]	8000	8000	8000	6300	6000	5000	4000
Weight [kg]	13	12	15.5	20.5	26.5	36	50
Length [mm]	260	244	249	278	283	297	323
Max. external diameter [mm]	140	140	160	186	195	215	245
Moment of inertia [kgm ²]	0,0194	0,01657	0,03315	0,0633	0,1142	0,205	0,3471
Connecting thread	M20x1,5	M20x1,5	M24	M30	M30	M36	M42x3
Spindle connection	50	50	80	95	95	125	125
Pitch diameter	100	100	120	145	170	195	225
F90 stroke monitoring incl. holder [ID no.]	1383458	1383458	1383459	1383460	1383461	1383462	1383463
Deublin single rotary union [ID no.]	10003958	10003958	10003958	10003959	10003959	10003959	10003959
Deublin double rotary union [ID no.]	1118081	1118081	1118081	1118081	1118081	1118081	1118081
Adapter plate ¹⁾	1022186	1022186	1022186	1022187	1022187	1022187	1022187
Pressure measuring technology	1385327	1385327	1385327	1385327	1385327	1385327	1385327

¹⁾ Necessary for the use of double rotary union