

SCHMIDT® PneumaticPress

Direct acting Pneumatic Presses with force/stroke monitoring

SCHMIDT® PneumaticPresses with force/stroke monitoring are offered as complete system with control unit **SCHMIDT® Press-Control 700**. These systems are characterized by sensors and signal amplification integrated in the press head. These signals are evaluated in real time.

Characteristics

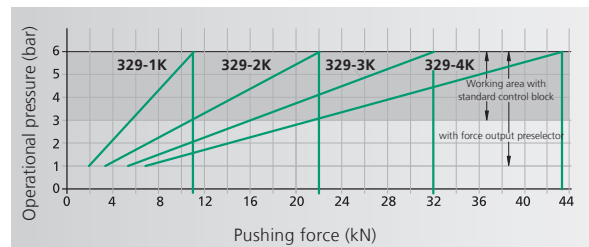
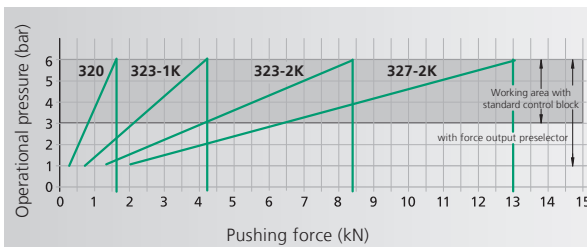
- Direct forces are measured due to the force sensor integrated in the ram. Insensitive against side loads
- Force and displacement sensors are immune to EMI and environmental conterminaton
- A measuring data amplification integrated in the press head provides short transmission paths of unamplified signals
- Anti-rotational square ram with two fully adjustable guiding gibs for precise work, also with tools without guide (not for type 320, here special anti-twist protection in the roller-guided round ram)



Press Type 323, 327, 329



Press Type 320



From 1.6 kN to 43 kN

Press Type			320	323-1K	323-2K	327-2K	327-3K	329-2K	329-3K	329-4K
Working stroke	A	mm	100	50, 75, 100, 125, 150	50, 75, 100	50, 75, 100, 125, 150	50, 75, 100	50, 75, 100, 150	50, 75, 100, 125, 150	50, 75, 100
Nominal force at 6 bar		kN	1.6	4.2	8.4	13	20	22	32	43
Resolution, process data acquisition										
- stroke		µm/inc	5	5	5	5	5	5	5	5
- force		N/inc	0.5	1.25	2.5	4	6.25	6.25	10	12.5
Throat depth	C	mm	129	131	131	131	131	160	160	160
Throat depth frame o		mm		151	151	151	151			
Fixture mounting plate suitable for throat depth frame				o	o	o	o			
Ram bore	Ø	mm	20H7	20H7	20H7	20H7	20H7	20H7	20H7	20H7
External ram dimensions	G x H	mm	Ø 40	70 x 50	70 x 50	70 x 50	70 x 50	90 x 60	90 x 60	90 x 60
Working height ¹⁾	F									
Frame No. 7-420		mm	50-420							
Frame No. 7-600 o		mm	85-600							
Frame No. 301		mm		140-350	140-350	140-350	140-350			
Frame No. 301-500 o		mm		310-500	310-500	310-500	310-500			
Frame No. 329		mm						130-300	130-300	130-300
Frame No. 329-460 o		mm						190-460	190-460	190-460
Weight (standard)	approx. kg		70	170	170	170	170	320	325	330

Frame Overview	Press Type	Frame Height M (mm)	Table Size B x T (mm)	Table Bore D Ø mm	Table Height K (mm)	Mounting Surface B x L (mm)
No. 7-420	320	740	180 x 150	20H7	90	220 x 362
No. 7-600	320	960	180 x 280	20H7	110	220 x 465
No. 301	323, 327	830	250 x 200	40H7	145	250 x 460
No. 301-500	323, 327	990	250 x 200	40H7	145	250 x 480
Special fixture mounting plate with 3 longitudinal slots ²⁾ o			300 x 220 400 x 230	40H7		
No. 329	329	810	300 x 230	40H7	147	300 x 550
No. 329-460	329	990	300 x 230	40H7	147	300 x 620
Special fixture mounting plate with 3 longitudinal slots ²⁾ o			400 x 280 500 x 280	40H7		

Options

o Additional charge applies

¹⁾ Typical values; can vary ± 3 mm due to casting and production tolerances

²⁾ With Press type **320** only in combination with frame type

No. 7-600 with 168 mm, 208 mm or 248 mm

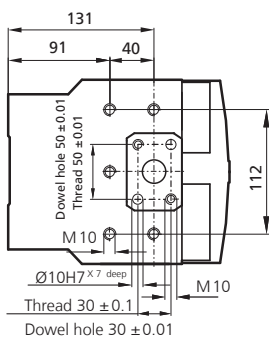
Other available options

- Nickel plated – cast parts are electroless nickel plated, steel components black oxide finished, aluminium anodized, precision steel surfaces are untreated
- Custom Paint – press and column can be painted to customer's color specification
- Bores for adapting tooling – customer specific sizes can be supplied

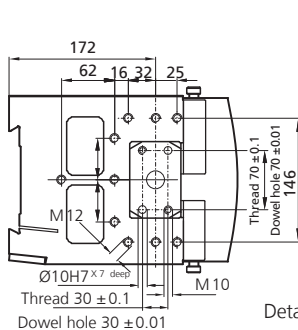
Bottom view of the press head

Fastening drill pattern flange/ram

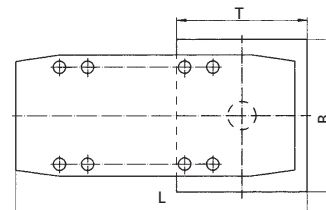
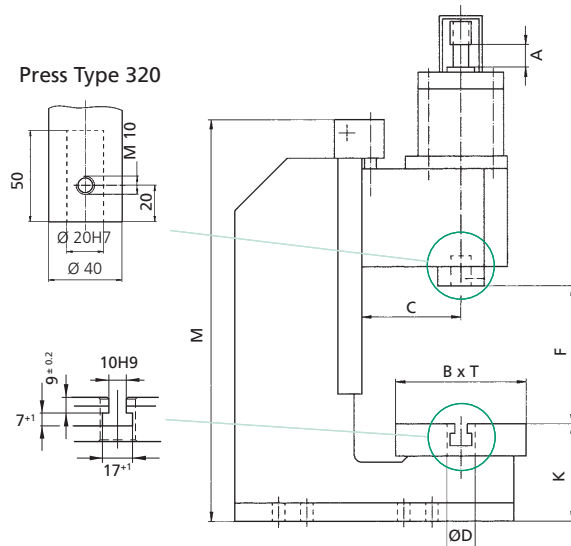
Press Type 323/327



Press Type 329



Press Type 320



Detailed dimensional drawings can be downloaded: www.schmidttechnology.de



SCHMIDT® PneumaticPress 323 with PressControl 700 and two-hand release on height-adjustable PU40 and transparent protective housing as EC type-examination approved single workstation.