

SCHMIDT® Rack-and-Pinion Presses

Constant force over the entire stroke



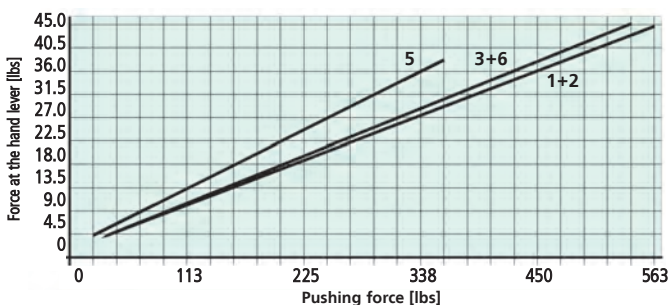
Do you need a long stroke and a constant force progression for assembly processes? Then, **SCHMIDT® Rack-and-Pinion Presses** are just the right choice.

Features:

- Long stroke
- Linear force progression
- Precise adjustment of the press depth via hardened lower stop
- Honed bores and ground rams provide a long service life and a precise guidance

Press Head

No.1 and No.2 have a ground guidance plate and Teflon-coated adjustable gibs for precise and torsion-proof guidance.



From 1.6 kN to 2.5 kN / 360 lbs. to 560 lbs.



Press type		5	5R	3	6	3R	6R	1	2	1R	2R
Press head type		5	5R	3	3	3R	3R	1	1	1R	1R
Nominal force	lbs	360	360	540	540	540	540	560	560	560	560
Working stroke	A inch	0 - 1.57	0.67- 1.57	0 - 2.76	0 - 2.76	0.71- 2.76	0.71- 2.76	0 - 3.15	0 - 3.15	1.02- 3.15	1.02- 3.15
Special strokes				0 - 6.30	0 - 6.30	0.71- 3.94	0.71- 3.94	0 - 3.94	0 - 3.94	1.02- 3.94	1.02- 3.94
Throat depth	C inch	2.56	2.56	3.39	3.39	3.39	3.39	3.39	3.39	3.39	3.39
Press head height	S inch	9.45	9.45	13.78	13.78	13.78	13.78	15.75	15.75	15.75	15.75
Ram bore	Ø mm	10H7	10H7	10H7	10H7	10H7					
Collet (standard Ø 10mm)	Ø mm							1-17	1-17	1-17	1-17
Hand lever left		○	○	○	○	○	○	●	●	●	●
Angle of rotation /0.1 inch Stroke		10.4°	10.4°	8.2°	8.2°	8.2°	8.2°	5.6°	5.6°	5.6°	5.6°
Spring restoring force	lbs	0.56	0.56	0.90	0.90	0.90	0.90	1.80	1.80	1.80	1.80
Return stroke lock¹⁾											
Locked position 1	inch before BDC		0.45			0.51	0.51			0.77	0.77
Locked position 2	inch before BDC		0.14			0.18	0.18			0.27	0.27
Disengaging accuracy approx.	inch		0.0025			0.003	0.003			0.0035	0.0035
Working height	F										
Frame No. 13	inch	2.36-7.08	2.36-7.08								
Frame No. 3	inch			3.15-8.27		3.15-8.27		4.72-10.23		4.72-10.23	
Frame No. 2	inch				4.72-14.17		4.72-14.17		5.71-14.96		5.71-14.96
Frame No. 2-600 ○					7.87-23.62		7.87-23.62		9.64-25.59		9.64-25.59
Frame No. 2-1000 ○					12.99-40.55		12.99-40.55		14.96-42.52		14.96-42.52
Weight	approx. lbs	26	26	48	66	48	66	50	68	50	68
Accessories											
Mechanical counter		○	○	○	○	○	○	○	○	○	○
Throat depth frame											
4.37, 5.16, 6.30, 7.87 inch				○	○	○	○	○	○	○	○
Additional fixture mounting plate suitable for throat depth frame				○	○	○	○	○	○	○	○
Micrometer stop		○	○	○	○	○	○	○	○	○	○

Frame type	Press type	Frame height		Table size		Table bore		Table height		Mounting surface	
		M inch	inch	W x D inch	inch	mm	mm	K inch	inch	W x L inch	inch
No. 13	5	12.99		4.33 x 3.15		20H7		1.81		4.33 x 7.28	
No. 3	3, 1	15.75		5.91 x 4.33		20H7		2.36		5.9 x 10.23	
No. 2	6, 2	21.10		7.28 x 4.33		20H7		2.36		7.28 x 11.02	
No. 2-600 ○	6, 2	31.89		7.87 x 6.30		20H7		3.86		7.87 x 11.41	
No. 2-1000 ○	6, 2	49.21		7.87 x 6.30		20H7		3.86		7.87 x 11.41	

Options

- = Series standard with no additional charge
- = Additional charge applies
- ¹⁾ = Adjustment of locking position on request

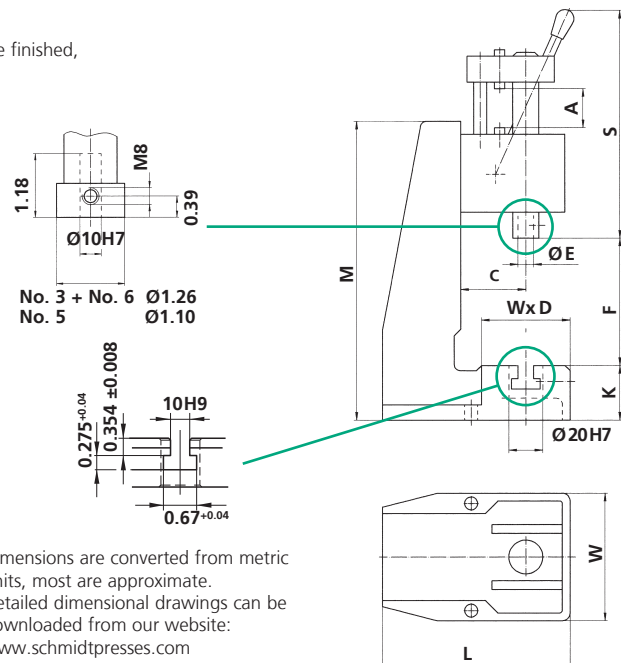
Other Available Options:

- **Nickel plated** – Cast parts are electroless nickel plated, steel components black oxide finished, aluminum 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
- Please consult our sales department or representative.

Tolerance conversion of typical sizes of SCHMIDT® Presses

Metric	Nominal Inch	Tolerance Inch
10H7	0.3937	-0 / +0.0006
20H7	0.7874	-0 / +0.0008
10H9	0.3937	-0 / +0.0014

Threads	Pitch
M8	1.25 mm
M10	1.50 mm



Dimensions are converted from metric units, most are approximate. Detailed dimensional drawings can be downloaded from our website: www.schmidtpresses.com