

# SCHMIDT® HydroPneumaticPress

## C-Frame Design with force/stroke monitoring

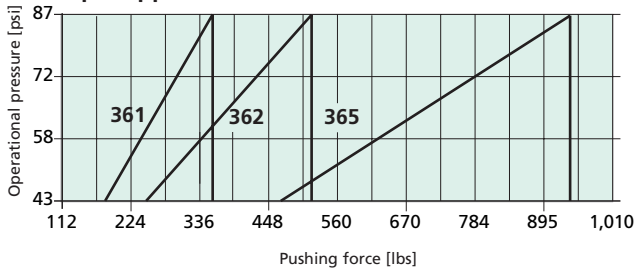


**SCHMIDT® HydroPneumaticPresses** with force/stroke monitoring are offered as complete system with control unit **SCHMIDT® PressControl 3000**. These systems are characterized by sensors and signal amplification integrated in the press head. These signals are evaluated in real time.

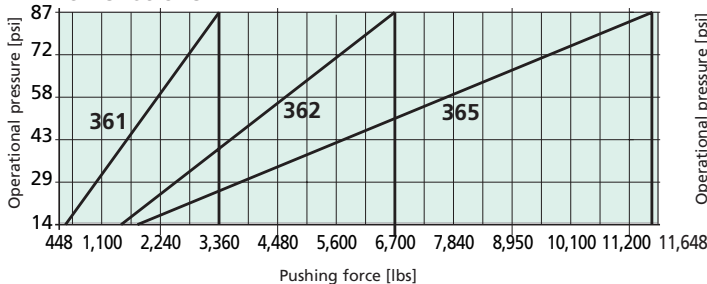
### Features:

- Direct forces are measured due to the force sensor integrated in the ram. Insensitive against side forces.
- Signal readings are not affected by outside interference.
- A measuring data amplification integrated in the press head provides short transmission paths of unamplified signals.
- Precision bilaterally adjustable, play-free gibs, precision machined bore for tool location. No die-set required

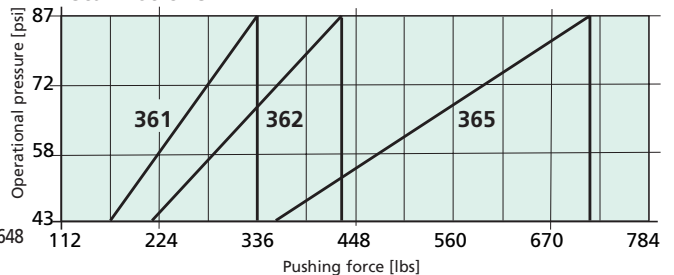
### Rapid approach stroke



### Power stroke



### Return stroke



# From 15 kN to 52 kN / 3,370 lbs. to 11,690 lbs. in power stroke

Press type	361	362	365
Total stroke – power stroke <sup>1)</sup>	mm		
	<b>50-6,</b> <b>100-12</b>	<b>50-6,</b> <b>100-12</b>	<b>50-6,</b> <b>100-12</b>
Nominal force at 87 psi lbs	3370	6745	11690
Resolution, process data acquisition			
– stroke	inch/inc	0.0002	0.0002
– force	lbs/inc	2.25	5.62
Throat depth <b>C</b>	inch	5.16	6.30
Throat depth frame $\bigcirc$		5.94	
Fixture mounting plate suitable for throat depth frame		$\bigcirc$	
Ram bore	$\varnothing$ mm	20H7	20H7
External ram dimensions <b>G x H</b>	inch	2.76 x 1.97	3.54 x 2.36
<b>Working height F</b>			
Frame No. <b>301</b>	inch	6.3 – 15.75	
Frame <b>301-500</b> $\bigcirc$	inch	12.20 – 19.68	
Frame No. <b>329</b>	inch		5.11 – 11.81
Frame No. <b>329-460</b> $\bigcirc$	inch		7.48 – 18.11
Weight (standard)	approx. lbs	375	705

Frame type	Press type	Frame height M	Table size W x D	Table bore	Table height K	Mounting surface W x L
No. <b>301</b>	361	inch 32.68	inch 9.84 x 7.87	$\varnothing$ mm 40H7	inch 5.71	inch 9.84 x 18.11
No. <b>301-500</b>	361	38.98	9.84 x 7.87	40H7	5.71	9.84 x 18.90
Special fixture mounting platen with 3 longitudinal slots $\bigcirc$			11.81 x 8.66	40H7		
No. <b>329</b>	362,365	31.89	11.81 x 9.06	40H7	5.79	11.84 x 21.65
No. <b>329-460</b>	362,365	38.98	11.81 x 9.06	40H7	5.79	11.81 x 24.41
Special fixture mounting platen with 3 longitudinal slots $\bigcirc$			15.75 x 11.02	40H7		
			19.68 x 11.02	40H7		

### Options

$\bigcirc$  = Additional charge applies

<sup>1)</sup> = Special models total stroke / power stroke on request

### 5/8 inch bushing available upon request for imperial version.

Please consult our sales department or representative.

### Stroke Length Conversions

50 mm	1.97 inch
100 mm	3.94 inch
150 mm	5.90 inch

6 mm	0.24 inch
12 mm	0.47 inch
20 mm	0.79 inch
30 mm	1.18 inch
36 mm	1.42 inch

### Tolerance conversion of typical sizes of SCHMIDT® Presses

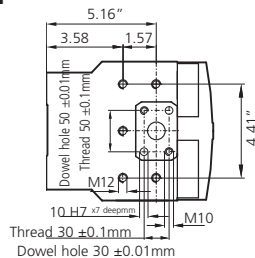
Metric	Nominal Inch	Tolerance Inch
10H7	0.3937	-0 / +0.0006
20H7	0.7874	-0 / +0.0008
25H7	0.9842	-0 / +0.000
40H7	1.5748	-0 / +0.0010
10H9	0.3937	-0 / +0.0014

Threads	Pitch
M8	1.25mm
M10	1.50mm

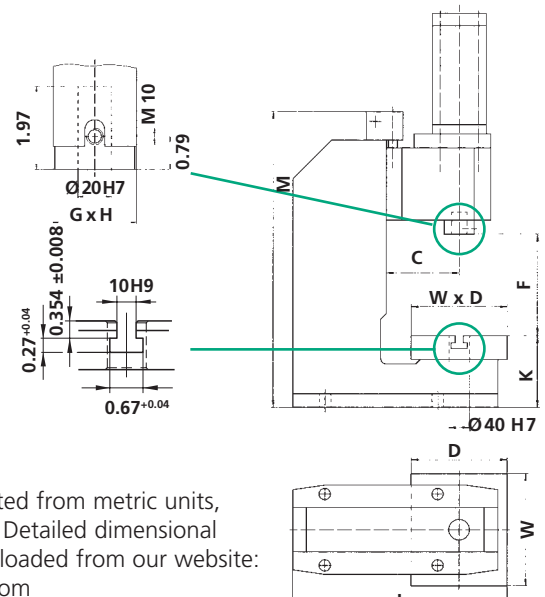
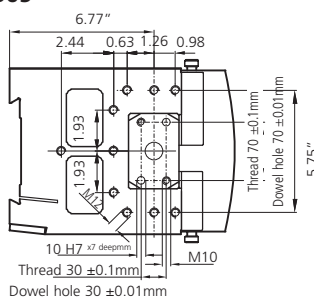
### Bottom view of the press head

Mounting drill pattern flange / ram

#### 361



#### 362 / 365



Dimensions are converted from metric units, most are approximate. Detailed dimensional drawings can be downloaded from our website: [www.schmidtpresses.com](http://www.schmidtpresses.com)

# SCHMIDT® HydroPneumaticPress

In C-Frame design with force/stroke monitoring

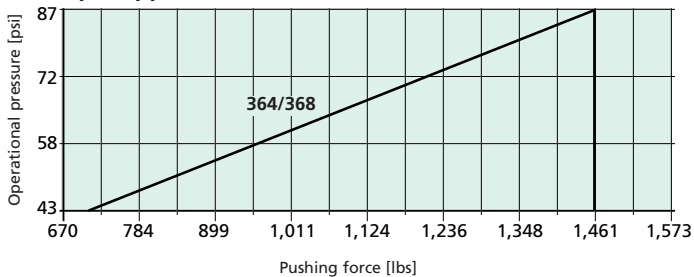


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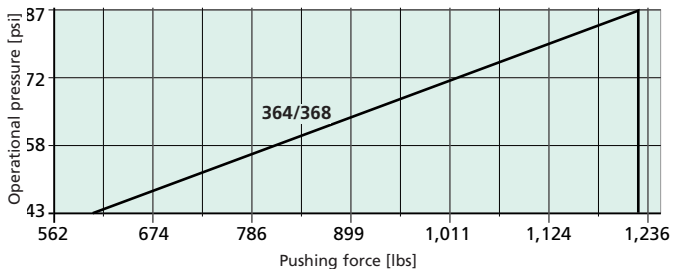
**Features:**

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- Signal readings are not affected by outside interference.
- A measuring data amplification integrated in the press head provides short transmission paths of unamplified signals.
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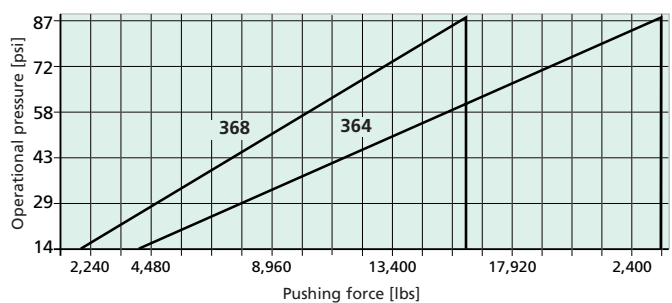
**Rapid approach stroke**



**Return stroke**



**Power stroke**



# From 72 kN to 100 kN / 16,185 lbs. to 22,480 lbs. in power stroke

Press type		364	368
Total stroke – power stroke <sup>1)</sup>	mm	50 – 6, 100 – 12	50 – 6, 100 – 12
Nominal force at 87 psi lbs		22480	16185
Resolution, process data acquisition			
– stroke	inch/inc	0.0002	0.0002
– force	lbs/incc	14.05	11.24
Throat depth	C inch	6.3	6.3
Ram bore	D Ø mm	25H7	20H7
External ram dimensions	G x H inch	3.54 x 2.36	3.54 x 2.36
<b>Working height</b>			
Frame No. <b>64</b>	inch	7.09 – 13.78	
Frame No. <b>64-600</b> ○	inch	16.93 – 23.62	
Frame No. <b>68</b> <sup>2)</sup>	inch		5.11 – 11.81
Frame No. <b>68/5</b> <sup>2)</sup> ○	inch		7.48 – 18.11
Weight (standard)	approx. lbs	925	770

Frame type	Press type	Frame height M inch	Table size W x D inch	Table bore Ø mm	Table height K inch	Mounting surface W x L inch
No. <b>64</b>	364	37.01	15.75 x 11.42	40H7	7.28	15.75 x 24.61
No. <b>64-600</b>	364	47.24	15.75 x 11.42	40H7	7.28	15.75 x 26.97
No. <b>68</b> <sup>2)</sup>	368	31.89	11.81 x 9.05	40H7	5.79	11.81 x 21.65
No. <b>68/5</b> <sup>2)</sup>	368	38.98	11.81 x 9.05	40H7	5.79	11.81 x 24.41
Special fixture mounting platen with 3 longitudinal slots ○			15.75 x 11.02	40H7		
			19.68 x 11.02	40H7		

### Options

○ = Additional charge applies

<sup>1)</sup> = Special models total stroke / power stroke on request

<sup>2)</sup> = Frame 68/5 required for 30 mm power stroke

### 5/8 inch bushing available upon request for imperial version.

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### Stroke Length Conversions

50 mm	1.97 inch
100 mm	3.94 inch
150 mm	5.90 inch

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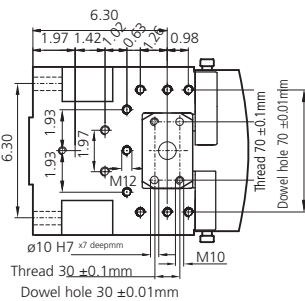
  

Threads	Pitch
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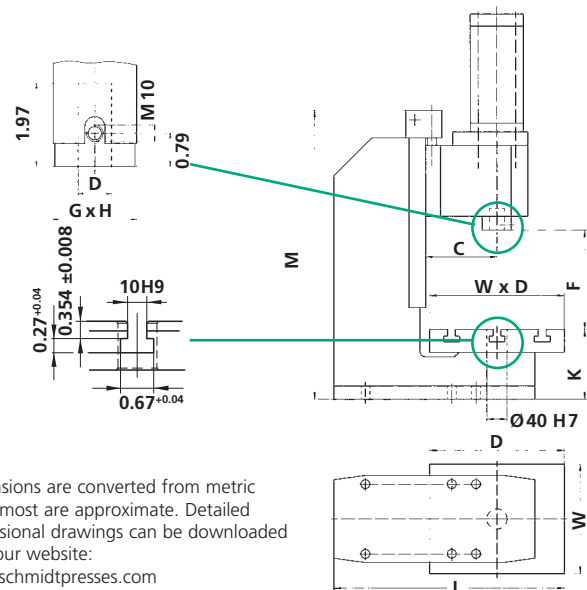
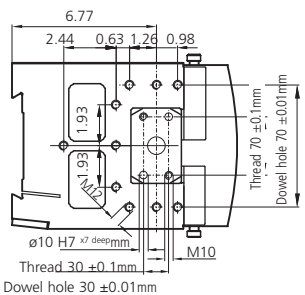
### Bottom view of the press head

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368



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