

# Enerpac Hydraulic Presses

**ENERPAC**   
POWERFUL SOLUTIONS. GLOBAL FORCE.

Enerpac Hydraulic Presses are available in a wide variety of standard capacities and configurations, or you can “build your own” with the easy-to-use matrix.

The press frames are a welded construction for maximum strength and durability, and when combined with the power of high-pressure hydraulics, will provide years of safe and dependable service in your workshop.

Enerpac press capacities range from 10-ton to 200-ton and are available in Bench, C-Frame, Arbor, H-Frame and Roll-Frame models.

These press features increase productivity and broaden the range of applications:

Standard on many Enerpac IP Presses, the exclusive Hydra-Lift™ offers effortless adjustment to the press daylight by use of a hydraulic lift.



Easy horizontal cylinder position is achieved with the unique “roller-head” cylinder mounting block, standard on most Enerpac IP Presses.












Optional “V-blocks” for positioning of complex parts are designed with high-strength steel for long life.



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## Press Section Overview

Capacity (tons)	Press Type and Functions	Series		Page
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▼ Press shown: IPE-5060



- **Quality welded frame** for maximum strength and long life
- **Exclusive “Hydra-Lift™” bed** for effortless adjustment of the vertical daylight (10-ton models are manual)
- **Roller head design** is standard to allow movement and locking of the cylinder from side to side (10-ton, 25-ton and 30-ton are manual)
- **All models in the Quick Selection Chart** have been matched to a pump, cylinder, hoses and gauge, offering the complete package



◀ An Enerpac H-Frame press quickly removes the shaft from this assembly.

## Setting the Industry Standard



### Cylinder Mounting Block

Allows cylinder mounting into a press frame, while also allowing side to side adjustment of cylinder position.

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### Hydra-Lift™

Allows easy, effortless daylight adjustment. Standard on most H-Frame presses.

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### Pump Mounting Bracket

Heavy-duty steel brackets allow mounting of one of the Enerpac Power Sources to power your press.

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### Gauge Included

All standard press models include a gauge and gauge adaptor, matching the press capacity.

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### V-Blocks

These optional V-Blocks are designed for easy fixturing of round stock and other non-uniform materials. Featuring precise fit into the press bolster.

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# H-Frame Presses



### Ordering Variations

Any variations to a listed part number must be ordered as two separate items. For example, if you need a different voltage electric pump, please order from the modular matrix on page 159 and the electric pump from the modular matrix on page 99 (electric) or page 111 (air).

Any questions should be directed to our Technical Service Department.

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### IP Series




Capacity:  
**10-200 tons**


Maximum Daylight and Width:  
**54.50 & 48.00 inches**

Maximum Operating Pressure:  
**10,000 psi**





### Cylinder Types

 = Single-acting, Spring Return

 = Double-acting, Hydraulic Return

### QUICK SELECTION CHART

For more technical information see next page.

Press Capacity (tons)	Maximum Vertical Daylight (in)	Maximum Bed Width (in)	Power Source					Press Model Number	Cylinder			Speed (sec/in)*	
			Type			Valve					Stroke (in)	Rapid Advance	Pressing
			Man.	Elec.	Air	Man.	Elec.						
10	40.00	18.63		●			●		●	10	0.90	6.70	
	40.00	18.63				●	●		●	10	2.20	13.40	
	40.00	18.63	●				●			10	{4}	{15}	
	40.00	18.63	●				●			10	{2}	{15}	
	40.00	18.63				●	●		●	10	2.20	13.40	
25	54.50	29.00		●			●		●	6	1.50	15.40	
	54.50	29.00		●			●	●	●	14	.70	7.70	
	54.50	29.00				●	●		●	14	5.20	30.90	
	54.50	29.00	●				●		●	14	{5}	{34}	
30	54.50	29.00				●	●			14	.60	43.00	
	54.50	29.00		●			●		●	14	.90	9.80	
	54.50	29.00	●				●		●	14	{7}	{34}	
50	48.56	28.75		●			●		●	13	1.02	11.04	
	48.56	28.75				●	●		●	6	1.00	74.00	
	48.56	28.75	●				●		●	6	{2}	{38}	
	48.56	28.75	●				●		●	6	{11}	{73}	
	48.56	28.75		●			●		●	6	2.90	28.90	
	48.56	28.75				●	●			13	1.00	22.20	
	48.56	28.75		●			●		●	13	1.00	11.00	
100	42.50	35.00				●	●		●	10	1.90	41.20	
	42.50	35.00		●			●		●	10	1.90	20.60	
	42.50	35.00	●				●		●	10	{3}	{70}	
	42.50	35.00		●			●			13	1.90	20.60	
	42.50	35.00	●				●		●	6	{3}	{70}	
150	48.50	48.00		●			●		●	13	2.20	15.40	
200	48.50	48.00		●			●		●	13	3.10	22.10	

\* {-} Speed in strokes per inch plunger travel

# IP-Series, H-Frame Presses

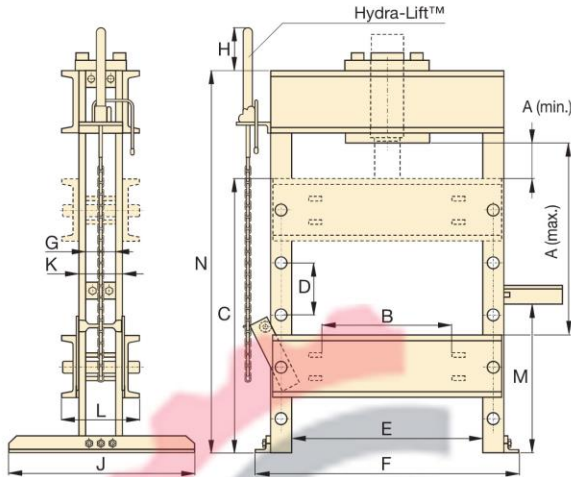
▼ The moveable “cylinder mounting block” allows the user to quickly adapt the press to a specific job.



◀ For full features see page 137.

Press Capacity (tons)	Press Model Number	Pump Model Number	Page:	Cylinder Model Number	Page:	H-Frame Press Dimensions (in)					
						A (max)	A (min)	B	C	D	E
10	IPE-1215	PEM-1201B	84	RC-1010	6	40.00	2.44	–	46.75	5.00	18.63
	IPA-1220	XA-12	108	RC-1010	6	40.00	2.44	–	46.75	5.00	18.63
	IPH-1240	P-392	70	RC-1010	6	40.00	2.44	–	46.75	5.00	18.63
	IPH-1234	P-84	72	RR-1010	32	40.00	2.44	–	46.75	5.00	18.63
	IPA-1244	XA-12V	108	RR-1010	32	40.00	2.44	–	46.75	5.00	18.63
25	IPE-2505	PUJ-1200B	82	RC-256	6	54.50	7.00	–	57.00	11.88	29.00
	IPE-2510	ZE3310SB-N	96	RC-2514	6	54.50	7.00	–	57.00	11.88	29.00
	IPA-2520	XA-12	108	RC-2514	6	54.50	7.00	–	57.00	11.88	29.00
	IPH-2531	P-80	72	RC-2514	6	54.50	7.00	–	57.00	11.88	29.00
30	IPA-3071	PAM-1042	105	RR-3014	32	54.50	7.00	–	57.00	11.88	29.00
	IPE-3060	ZE3410SB-N	96	RR-3014	32	54.50	7.00	–	57.00	11.88	29.00
	IPH-3080	P-84	72	RR-3014	32	54.50	7.00	–	57.00	11.88	29.00
50	IPE-5010	ZE4320SB-N	96	RC-5013	6	48.56	7.06	18.76	54.00	10.38	28.75
	IPA-5021	PAM-1022	105	RC-506	6	48.56	7.06	18.76	54.00	10.38	28.75
	IPH-5030	P-462	72	RC-506	6	48.56	7.06	18.76	54.00	10.38	28.75
	IPH-5031	P-80	72	RC-506	6	48.56	7.06	18.76	54.00	10.38	28.75
	IPE-5005	PUJ-1200B	82	RC-506	6	48.56	7.06	18.76	54.00	10.38	28.75
	IPA-5073	ZA4408MX	110	RR-5013	32	48.56	7.06	18.76	54.00	10.38	28.75
	IPE-5060	ZE4420SB-N	96	RR-5013	32	48.56	7.06	18.76	54.00	10.38	28.75
100	IPH-5080	P-464	72	RR-5013	32	48.56	7.06	18.76	54.00	10.38	28.75
	IPA-10023	ZA4208MX	110	RC-10010	6	42.50	7.00	20.00	51.00	11.69	35.00
	IPE-10010	ZE4320SB-N	96	RC-10010	6	42.50	7.00	20.00	51.00	11.69	35.00
	IPH-10030	P-462	72	RC-10010	6	42.50	7.00	20.00	51.00	11.69	35.00
	IPE-10060	ZE4420SB-N	96	RR-10013	32	42.50	7.00	20.00	51.00	11.69	35.00
150	IPH-10080	P-464	72	RR-1006	32	42.50	7.00	20.00	51.00	11.69	35.00
	IPE-15065	ZE5420SG-N	96	RR-15013	32	48.50	12.50	28.00	54.50	10.00	48.00
200	IPE-20065	ZE5420SG-N	96	RR-20013	32	48.50	12.50	28.00	54.50	10.00	48.00

# H-Frame Presses



H-Frame Press Dimensions (in)								Weight (lbs)	Press Model Number
F	G	H	J	K	L	M	N		
24.88	-	-	29.75	4.25	7.44	35.00	52.00	298	IPE-1215
24.88	-	-	29.75	4.25	7.44	35.00	52.00	160	IPA-1220
24.88	-	-	29.75	4.25	7.44	35.00	52.00	158	IPH-1240
24.88	-	-	29.75	4.25	7.44	35.00	52.00	189	IPH-1234
24.88	-	-	29.75	4.25	7.44	35.00	52.00	163	IPA-1244
40.50	4.00	13.25	30.00	5.25	10.69	26.50	76.00	605	IPE-2505
40.50	4.00	13.25	30.00	5.25	10.69	26.50	76.00	697	IPE-2510
40.50	4.00	13.25	30.00	5.25	10.69	26.50	76.00	610	IPA-2520
40.50	4.00	13.25	30.00	5.25	10.69	26.50	76.00	620	IPH-2531
40.50	4.00	13.25	30.00	5.25	10.69	26.50	76.00	684	IPA-3071
40.50	4.00	13.25	30.00	5.25	10.69	26.50	76.00	722	IPE-3060
40.50	4.00	13.25	30.00	5.25	10.69	26.50	76.00	664	IPH-3080
42.75	5.00	8.75	36.00	7.25	14.38	30.75	76.00	1,040	IPE-5010
42.75	5.00	8.75	36.00	7.25	14.38	30.75	76.00	968	IPA-5021
42.75	5.00	8.75	36.00	7.25	14.38	30.75	76.00	968	IPH-5030
42.75	5.00	8.75	36.00	7.25	14.38	30.75	76.00	926	IPH-5031
42.75	5.00	8.75	36.00	7.25	14.38	30.75	76.00	930	IPE-5005
42.75	5.00	8.75	36.00	7.25	14.38	30.75	76.00	1,057	IPA-5073
42.75	5.00	8.75	36.00	7.25	14.38	30.75	76.00	1,051	IPE-5060
42.75	5.00	8.75	36.00	7.25	14.38	30.75	76.00	1,003	IPH-5080
51.00	6.75	8.75	36.00	8.75	17.25	33.13	76.00	1,650	IPA-10023
51.00	6.75	8.75	36.00	8.75	17.25	33.13	76.00	1,722	IPE-10010
51.00	6.75	8.75	36.00	8.75	17.25	33.13	76.00	1,656	IPH-10030
51.00	6.75	8.75	36.00	8.75	17.25	33.13	76.00	1,743	IPE-10060
51.00	6.75	8.75	36.00	8.75	17.25	33.13	76.00	1,665	IPH-10080
67.17	9.12	3.09	44.00	13.12	21.85	47.75	90.00	3,906	IPE-15065
67.17	9.12	3.09	44.00	13.12	21.85	47.75	90.00	3,906	IPE-20065

## IP Series



Capacity:

**10-200 tons**

Maximum Daylight and Width:

**54.50 & 48.00 inches**

Maximum Operating Pressure:

**10,000 psi**



### H-Frame Press Gauges

All standard press models include a gauge and gauge adaptor, matching the press capacity:

Press Capacity	Gauge Model Number	Adaptor Model Number
(tons)		
10	GF-10P	GA-2
25	GF-20P	GA-2
30	GF-835P	GA-3
50	GF-50P	GA-2
100	GF-871P	GA-3
150	GF-200P	GA-3
200	GF-200P	GA-3

For more information on gauges, please refer to the System Components section.

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### Ordering Variations

Any variations to a listed part number must be ordered as two separate items. For example, if you need a different voltage electric pump, please order from the modular matrix on page 159 and the electric pump from the modular matrix on page 99 (electric) or page 111 (air).

Any questions should be directed to our Technical Service Department.

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# IPR-Series, Roll Frame Presses

▼ Shown: IPR-10075



- Quality welded frame for maximum strength and long life
- Frame rolls easily on four steel roller bearings
- Hydraulic clamp cylinders lock frame into position
- Exclusive “Hydra-Lift™” bolster for effortless adjustment of the vertical daylight
- Standard roller head design allows movement of the cylinder from side to side
- All models in the Quick Selection Chart have been matched to a pump, cylinder, hoses and gauge, offering the complete package
- Roll Frame design features a stationary bed with the ability to support heavy loads

## The One and Only



### Cylinder Mounting Block

Allows cylinder mounting into a press frame, while also allowing side to side adjustment of cylinder position.

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### Pump Mounting Bracket

Heavy duty steel brackets to allow conversion to one of the Enerpac Power Sources to power your press.

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### Hydra-Lift™

Allows easy, effortless daylight adjustment.


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### Optional V-Blocks

These V-Blocks, 200 ton only, are designed for easy fixturing of round stock and other non-uniform materials. Featuring precise fit into the press bolster.

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Press Capacity (tons)	Vertical Daylight A (in)		Horizontal Daylight E (in)	Pump Model Number  Page:	Press Model Number	Cylinder, Double-Acting Hydraulic Return				Speed (sec/in)	
	minimum	maximum					Stroke (in)	Model Number  Page:	Rapid Advance	Pressing	
50	6.00	37.12	28.75	ZE4420SB-N 96	IPR-5075	●	13.13	RR-5013 33	1.0	11.1	
100	6.28	41.28	35.00	ZE5420SG-N 96	IPR-10075	●	13.13	RR-10013 33	1.5	10.3	
200	11.00	51.00	48.00	ZE5420SG-N 96	IPR-20075	●	13.00	RR-20013 33	3.1	22.1	

# Roll Frame Presses

▼ An IPR-20075 Roll Frame Press is used to remove a large shaft from this pillow-block assembly. The Roll Frame design allows this heavy part to be safely loaded with an overhead crane.



## IPR Series



Capacity:  
**50-200 tons**

Maximum Daylight and Width:  
**51.00 & 48.00 inches**

Maximum Operating Pressure:  
**10,000 psi**



### Roll Frame Press Gauges

All standard press models include a gauge and gauge adaptor, matching the press capacity:

Press Capacity	Gauge Model Number	Adaptor Model Number
(tons)		
50	GF-50P	GA-2
100	GF-871P	GA-3
200	GF-200P	GA-3

For more information on gauges, please refer to the System Components section. *Page: 131*

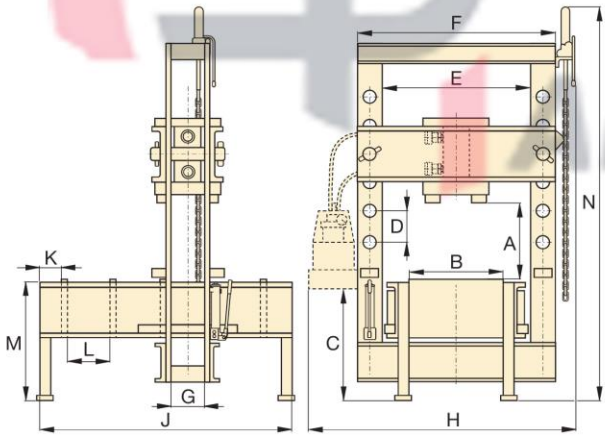


### Ordering Variations

Any variations to a listed part number must be ordered as two separate items. For example, if you need a different voltage electric pump, please order from the modular matrix on page 159 and the electric pump from the modular matrix on page 99 (electric) or page 111 (air).

Any questions should be directed to our Technical Service Department.

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Roll Frame Press Dimensions (in)											Weight (lbs)	Press Model Number
B	C	D	F	G	H	J	K	L	M	N		
20.71	38.25	10.38	36.75	5.00	55.92	64.00	8.00	10.63	30.00	112.96	1,961	IPR-5075
26.50	38.00	8.75	45.00	5.75	63.19	66.00	8.00	10.63	32.00	118.94	3,849	IPR-10075
38.75	36.75	10.00	64.00	9.12	84.63	86.50	8.00	15.00	36.00	125.96	7,869	IPR-20075



# C-Clamp, Arbor and Bench Frame Presses



▼ Shown from left to right: A-220, A-330 and A-258



## The Standard In Workshop Tools



### Push Pin A-183

For applications requiring precision pressing, such as shaft removal and insertion. This attachment fits 10 ton cylinders and requires the use of a threaded adaptor saddle (A-13).



### Smooth Saddle A-185

For pressing applications of delicate parts, such as aluminum castings, this saddle decreases surface marks during the pressing application. Requires 10-ton cylinder and threaded adaptor saddle (A-13).

### C-Clamp Press

- 5, 10 and 20 ton capacity
- Operational in all positions

### Arbor Press

- Foot mounting holes for horizontal or vertical positioning
- Machined work surfaces for easier fixturing
- Slotted back to simplify loading and unloading of longer parts

### Bench Frame Press

- Cylinder mounting adaptor allows lateral positioning along rails
- Mounting holes for easy mounting to fixed surface

▼ A-310 Arbor Press



Press Type	Press Capacity (tons)	Maximum Vertical Daylight (in)	Maximum Bed Width (in)	Cylinder Series Number*	Press Model Number	Weight (lbs)
Arbor	10	8.94	5.31	RC-10-x	A-310*	62
	30	10.25	7.00	RC-30-x	A-330*	220
C-Clamp	5	6.50	2.00	RC-5-x	A-205*	14
	10	9.00	3.25	RC-10-x	A-210*	37
	20	11.88	3.75	**	A-220**	83
Bench	10	15.38	15.00	-	A-258*	103
	10	15.38	15.00	RC-1010	IPA-1022***	140
	10	15.38	15.00	RC-1010	IPH-1040***	135

\* Requires RC cylinder listed, see page 7 for specifications.

\*\* Requires RC-25 ton cylinder, limited to 20 tons.

\*\*\* Complete set includes cylinder and pump.

[www.enerpac.com](http://www.enerpac.com)

# C-Clamp, Arbor and Bench Frame Presses

▼ A perfect example of the force and versatility of the Enerpac A-220 C-Clamp press.



## A IP Series



Capacity:

**5-30 ton**

Maximum Daylight and Width:

**15.38 and 15.00 inches**

Mounting Capabilities:

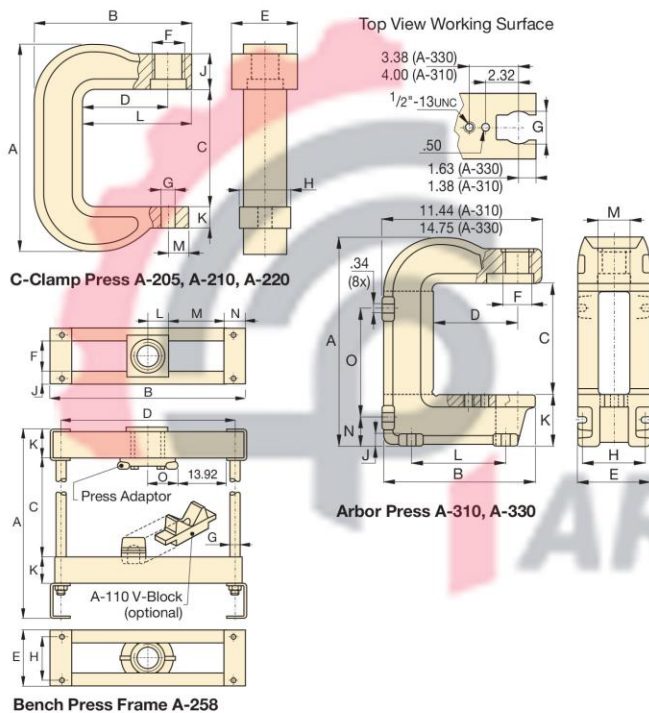
**Fixed or Portable**

Maximum Operating Pressure:

**10,000 psi**



For high-cycle production applications, C-Clamp and Arbor presses should be limited in their capacity. Consult Enerpac Technical Services for specific application details.



### Hydraulic Cylinders

Cylinders for C-Clamps and Arbor Presses must be ordered separately.

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### Hydraulic Pumps

Pumps for C-Clamps and Arbor Presses must be ordered separately.

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Press Dimensions (in)															Press Model Number
A	B	C	D	E	F	G	H	J	K	L	M	N	O		
16.31	11.06	8.94	6.00	5.31	2 1/4-14 UN	2.50	4.81	.75	3.81	6.88	2.56	2.13	8.63	A-310	
21.94	13.88	10.25	6.00	7.00	3 5/16-12 UN	2.50	5.50	1.00	6.50	8.00	2.63	3.88	10.88	A-330	
11.44	8.00	6.50	3.75	2.88	1 1/2-16 UN	1.02	2.00	2.50	1.06	4.75	1.00	-	-	A-205	
16.00	11.13	9.00	6.00	3.25	2 1/4-14 UN	1.02	2.25	2.50	1.69	7.63	1.13	-	-	A-210	
21.25	13.63	11.88	6.00	4.76	3 5/16-12 UN	1.02	2.75	2.75	1.88	8.38	1.13	-	-	A-220	
25.63	18.75	16.50	16.00	5.75	3.25	1.00	4.50	1.25	2.75	1.88	5.30	2.20	2.63	A-258	
25.63	18.75	16.50	16.00	5.75	3.25	1.00	4.50	1.25	2.75	1.88	5.30	2.20	2.63	IPA-1022	
25.63	18.75	16.50	16.00	5.75	3.25	1.00	4.50	1.25	2.75	1.88	5.30	2.20	2.63	IPH-1040	

# Press Accessories and Press Speed Chart



Description	Frame Capacity	Model Number		Features
<b>Cylinder Mounting Block</b>	10 ton Bench 10 ton H-Frame 25 and 30 ton H-Frame 50 ton H-Frame 100 ton H-Frame 200 ton H-Frame	AD-175 IPK-1012 IPK-3012 PK-501 PK-1002 PK-2002		<ul style="list-style-type: none"> <li>AD-175 converts the Bench press to use an RD-9 ton cylinder</li> <li>All mounting blocks allow horizontal movement of cylinder</li> </ul>
<b>V- Blocks</b>	10 ton Bench Press 10 ton H-Frame 25 and 30 ton H-Frame 50 ton H-Frame 100 ton H-Frame 150 & 200 ton H-Frame 200 ton Roll Frame	A-110 A-136 A-130 A-150 A-175 A-200 A-200R		<ul style="list-style-type: none"> <li>Machined from high strength steel for long life</li> <li>A-110 includes one V-block</li> <li>All other model numbers include two V-blocks</li> </ul>
<b>Hydra-Lift™</b>	25-100 ton H-Frame 150-200 ton H-Frame 50 and 100 ton Roll Frame 200 ton Roll Frame	IPL-100 IPL-101 IPLR-100 IPLR-200		<ul style="list-style-type: none"> <li>Allows easy, effortless daylight adjustments</li> <li>Includes accessory chain</li> </ul>
<b>Pump Mounting Bracket</b>	Hand operated and small Air Pumps; P-80, P-84, P-142, P-392, PA-133, XA, Turbo II pumps  Electric, large Hand Pumps, and ZA4 Air Pumps; ZE Series, P-462, P-464, 10/90 Series Air Pumps	PMB-1  PMB-2		<ul style="list-style-type: none"> <li>Both mounting brackets are pre-drilled to accept a number of different pump models</li> </ul>

## Cylinder Speed

This chart will help you calculate the time required for an Enerpac cylinder to extend when powered by a 10,000 psi Enerpac hydraulic pump. The Cylinder Speed Chart can also be used to determine the pump type and model best suited for an application when you know the plunger speed required.

### Cylinder and Pump Selection Chart

Cylinder Capacity (tons)	Cylinder Load	Hand Operated Pumps				Electric Pumps					Air Pumps			
		Strokes per inch of plunger travel				Seconds per inch of plunger travel								
		Single Speed	Two-Speed			½ hp Port.	½ hp Subm.	ZE3 Series	ZE4 Series	ZE5 Series	@100 psi air			
			P-392	P-80 P-84	P-462 P-464						XA	PA-133	PAM 10 Series	ZA4
10	No load	15	4	2	1	.7	.9	.3	.2	.2	1.10	2.70	.21	.16
	Load	15	15	15	8	6.7	6.7	3.4	2.2	1.1	9.00	16.80	14.90	4.50
25	No load	34	8	5	1	1.5	2.1	.7	.5	.4	2.60	6.20	.48	.36
	Load	34	34	34	18	15.5	15.5	7.7	5.2	2.6	20.60	38.60	34.30	10.30
30	No load	43	10	7	1	1.9	2.6	.9	.6	.5	3.20	7.50	.60	.46
	Load	43	43	43	23	19.5	19.5	9.80	6.5	3.3	26.00	48.70	43.30	13.00
50	No load	73	16	11	2	3.3	4.4	1.50	1.0	.8	5.50	13.30	1.00	.80
	Load	73	73	73	38	33.2	33.2	16.6	11.0	5.5	44.20	82.92	73.70	22.10
100	No load	137	30	21	3	6.2	8.3	2.8	1.9	1.5	10.30	24.80	1.90	1.50
	Load	137	137	137	71	61.9	61.9	31.0	20.7	10.3	82.50	154.70	137.50	41.30

Note: Values are approximate. Cylinder speed may vary in actual application.

# Custom Built Presses

## CUSTOM BUILD YOUR OWN PRESS

If the press that would best fit your application cannot be found in the charts, you can easily build your custom press here. All presses must be ordered with cylinders. The pump is ordered separately.

▼ This is how a press model number is built up:



### 1 Product Type

IP= Industrial Press

### 2 Frame Type

H = H-Frame

R = Roll Frame <sup>1)</sup>

### 3 Press Capacity

010 = 10 ton

025 = 25 ton

030 = 30 ton

050 = 50 ton

100 = 100 ton

150 = 150 ton

200 = 200 ton

### 4 Cylinder Type

S = Single-Acting (RC-Series)

D = Double-Acting (RR-Series)

### 5 Cylinder Stroke (in)

- 10 ton S/A: **06, 08, 10, 12, 14**

10 ton D/A: **10, 12**

- 25 ton S/A: **06, 10, 12, 14**

- 30 ton S/A: **08**

30 ton D/A: **08, 14**

- 50 ton S/A: **06, 13**

50 ton D/A: **06, 13, 20**

- 100 ton S/A: **06, 10**

100 ton D/A: **06, 13, 18**

- 150 ton D/A: **06, 13, 32**

- 200 ton D/A: **13, 18, 24**

### 6 Pump Mounting Kit <sup>2)</sup>

0 = No mounting kit

1 = Hand operated and small air pumps: P-80, P-84, P-141, P-142, P-202, P-391, P-392, PA-133 and all Turbo II Air pumps

2 = Electric, large hand operated and modular air pumps: PUJ-12, PEM-12, ZE3-6 Series P-462, P-464 PAM-10 and -90 Series

<sup>1)</sup> Roll Frame Press: 50-, 100- and 200-ton press capacity only. (Assembly required)

<sup>2)</sup> Includes hoses for press, except for option 0.

### Ordering Example

#### Model number: IPH-050S06-2

IPH-050S06-2 is a 50-ton H-Frame press with a single-acting, 6 inch stroke cylinder (RC-506). It has a pump mounting kit (for an electric Pump or a Modular Air Pump).

See the cylinder and pump selection chart on previous page for selecting the proper pump.

## IP Series



Capacity:

**10-200 tons**

Maximum Daylight and Width:

**54.50 & 48.00 inches**

Maximum Operating Pressure:

**10,000 psi**



“No Load” indicates the plunger speed as it extends toward the load (1st stage).

“Load” indicates the plunger speed as the load is applied at a system pressure of 10,000 psi (2nd stage).

### Formula $V = A \div Q$

$V$  (sec/in) =  $A$  (in<sup>2</sup>)  $\div$   $Q$  (in<sup>3</sup>/min)

$V$  = Cylinder plunger speed in seconds per inch

$A$  = Cylinder effective area in square inches (in<sup>2</sup>)

$Q$  = Pump oil flow in cubic inches (in<sup>3</sup>)

Cylinder Plunger Speed (sec/in)

=  $\frac{\text{Cylinder Effective Area (in}^2\text{)}}{\text{Pump Flow Rate (in}^3\text{/min)}}$

x  $\frac{60 \text{ sec}}{1}$

# Tension Meter and Load Cells

▼ Shown: LH-102 and TM-5 (in middle)



## TM, LH Series

Capacity:  
**2,000 to 200,000 lbs.**

Accuracy, % of full scale:  
**± 2%**



TM and LH models are 100% tested to verify accuracy within a ± 2% range.

If your application requires a calibrated tool, it must be submitted for certification testing.

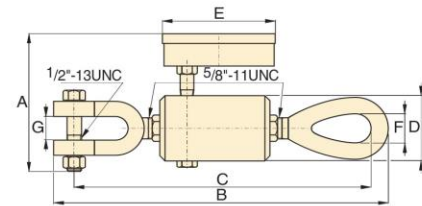
Certification is NOT available from Enerpac.

### Tension Meter TM-5

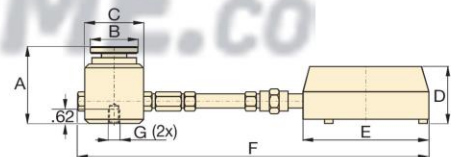
- Accuracy, ± 2% of full scale
- Zinc and bronze plated to resist rust and corrosion
- Dual-range readout in kilograms and pounds
- Cushioned metal case provides safe storage and transport
- Maximum indicating pointer reading for pre-selected forces or to maintain maximum force readings

### Load Cells LH Series

- Accuracy, ± 2% of full scale
- Swivel loading pad reduces eccentric loading for improved accuracy
- Maximum indicating pointer reading for pre-selected forces or to maintain maximum force readings
- Dual-range readout in kilograms and pounds



TM-5



LH-Series

Type	Gauge Capacity		Model Number	Minimum Reading		Gauge Increments		Dimensions (in)						
	(lbs)	(kg)		(lbs)	(kg)	(lbs)	(kg)	A	B	C	D	E	F	G
Direct Mounted	10,000	4500	TM-5	1,000	500	100	100	4.75	9.75	9.29	2.00	4.00	.88	.75
Direct Load Cell Mounted	2,000	900	LH-10	200	100	20	20	3.06	1.75	2.25	2.38	4.00	10.00	1/4\"-20, 1.75\" BC
	10,000	4500	LH-50	1,000	500	100	100	3.06	1.75	2.25	2.38	4.00	10.00	1/4\"-20, 1.75\" BC
Remote Mounted with 2 ft. Hose	2,000	900	LH-102	200	100	20	20	3.06	1.75	2.25	2.38	5.81	33.31	1/4\"-20, 1.75\" BC
	10,000	4500	LH-502	1,000	500	100	100	3.06	1.75	2.25	2.38	5.81	33.10	1/4\"-20, 1.75\" BC
Remote Mounted with 6 ft. Hose	20,000	9000	LH-1002	2,000	1000	200	200	3.06	1.75	2.25	2.38	5.81	33.10	1/4\"-20, 1.75\" BC
	50,000	21000	LH-2506	5,000	2500	500	500	4.00	2.75	3.38	2.38	5.81	82.44	3/8\"-24, 2.5\" BC
	100,000	45000	LH-5006	5,000	2500	1,000	1000	5.22	4.00	5.00	2.38	5.81	84.06	3/8\"-24, 3.5\" BC
	200,000	90000	LH-10006	20,000	10000	2,500	1000	6.22	5.00	6.25	2.38	5.81	85.31	3/8\"-24, 4.0\" BC

# Custom Hydraulic Presses

**With decades of experience and in-house capabilities look to Enerpac to help find solutions to your customization needs.**

Next to our large range of standard workshop presses, Enerpac offers the possibility of customization. Because many customers have specific requirements, we offer turn-key project management, including design, engineering and manufacturing. As the market leader, we listen to our customers and with our world

wide experience we offer the best solutions, especially when safety is not negotiable. Whether a longer stroke, wider frame or complete new design is required, our custom product group has many years of experience in multiple industries to deliver a solution that meets or exceeds expectations.



◀ Fully Automated PLC-Controlled 1800-Ton, High-Accuracy Press



◀ 50-Ton Workshop Press for Maintenance Jobs



◀ 100-Ton Press for Assembly of Spring-Loaded Cylinders

## OVERVIEW



▲ Enerpac's hydraulic presses can be configured to fulfill a broad range of applications. Each press is designed and manufactured according to customer specifications and in cooperation with our engineering team.

## CUSTOMIZABLE FEATURES:

- Capacity
- Cylinder Stroke
- Pump Type
- Controls
- Guarding
- Daylight Dimensions

## CONFIGURATIONS

- Vertical and horizontal press
- Cylinders mounted in upper and lower bolsters
- Height built to customer specifications
- Daylight (vertical and horizontal) built to customer specifications



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