

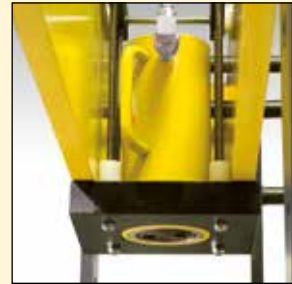
Enerpac Hydraulic Presses are available in a variety of capacities and sizes. The press frames are designed for maximum strength and durability. Strong frames and powerful high-pressure hydraulics will provide years of dependable service in many applications.

Enerpac Presses are available in Bench, C-Frame, Arbor, Workshop and Roll-Frame models.

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

Side-to-side cylinder movement

Lateral movement capability of cylinder in upper bed.



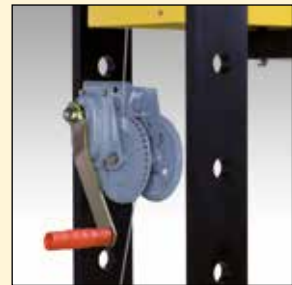
Press Kits

The 50 and 75 ton XLP-Series presses come as unassembled kits, and include complete press frame, winch, cylinder, pump with gauge, couplers and hose.










Winch

Movable upper and lower bed with self-braking winch on XLP-Series presses.



Hydraulic Presses Section Overview

| Capacity ton (kN) | Press type and functions | Series | | Page |
|-----------------------|---|------------|---|-------|
| 10 (101) | Bench Presses | VLP |  | 134 ▶ |
| 25 - 200 (232 - 1995) | Workshop Presses | XLP VLP |  | 134 ▶ |
| 50 - 200 (498 - 1995) | Roll-Frame Presses | BPR |  | 136 ▶ |
| 5 - 20 (45 - 178) | C-Clamp Presses | A |  | 138 ▶ |
| 10 - 30 (101 - 295) | Arbor Presses | A |  | 138 ▶ |
| 10 - 200 (101 - 1995) | Press Accessories Press Application Idea | VB, A, IPL |  | 140 ▶ |
| 900 - 90.000 kg | Tension Meters Load Cells | TM LH |  | 141 ▶ |

Available in capacities from 10 to 200 ton, each Enerpac press consists of three basic high quality components: a press frame, a power source and a cylinder.

Press Frame

Press frames include features like workpiece side-loading and height adjustment of the upper and lower bed.

Power Source

Depending on the production requirements, Enerpac presses can be powered by manual, air-hydraulic and electric-drive power sources.

Cylinder

Depending on the application, double-acting cylinders offer increased efficiency. Check out the Selection Charts for the press best suited for your needs.

Gauge

All Workshop presses and Roll-Frame Presses feature an easy to monitor pressure/force gauge for increased safety.



IMPORTANT!

The pressframe of the workshop presses are exclusively designed for pressing operations, not for pulling. For pulling applications please contact Enerpac.

In order to fully comply with CE regulations, some presses must be equipped with specific safety components, such as spring centered valves, two-hand control devices, guards or others.

Enerpac standard general purpose presses are supplied without guards, and have a plunger speed of less than 10 mm/second. However, your application may require that measures should be taken to reduce the risk of injury to operators and other personnel by providing appropriate safeguarding, training and conducting a risk assessment, which eliminates or reduces danger.

Health & safety within your workplace is your responsibility, not that of Enerpac.

Advice on such matters is available from your local enforcement agency. If you require any further information on Enerpac accessories that may help you conform to the Machinery Directive or European legislation contact Enerpac.



▼ From left to right: XLP-506XA12G, XLP-256XA11G



XLP-Series Presses

- Multi-functional presses in kit form (50 and 75 ton presses)
- Easy grip forklift access on 50 and 75 ton presses
- Height adjustment of upper or lower bed with winch (50 & 75 ton)
- Width adjustment allows cylinder to move from side-to-side
- Pump options include XA-Series air-operated foot pump
 - pressure gauge integrated in pump for optimal control
 - suitable for delicate pressing jobs from variable oil flow.

VLP-Series presses

- Unique “Hydrajust” bed positioning device on 100 and 200 ton VLP-presses allows adjustment of the lower bed.

No Workshop can do without one



XA-Series Foot Pump

The XLP-press with XA-Series air powered foot pump: no need to fully lift up foot – rest bodyweight on heel, resulting in a handsfree and stable working position – safe and controlled press operation (see page 100 for XA-Series Pumps).



Press Kits *

The 50 and 75 ton presses come standard as unassembled kits, and include complete press frame, winch, cylinder, pump with gauge, couplers and hose.



Easy grip forklift access



Cut-away in lower frame for pallet truck access allows easy transportation of 50 and 75 ton XLP-series presses.



Side-to-side cylinder movement

Cylinder can be positioned horizontally side-to-side on all XLP-Series presses.

▼ SELECTION CHART

| Press Capacity ton (kN) | Maximum Daylight (mm) | | Press Model Number | Power Source | | | | | Cylinder | | | | | | |
|----------------------------|-----------------------|------------|--------------------|--------------|-------|-----|------------|-------|----------------|-------|---|---|-------------|--------------------|-------|
| | Vertical | Horizontal | | Pump Type | | | Valve Type | | Pump Model Nr. | Page: |  |  | Stroke (mm) | Cylinder Model Nr. | Page: |
| | | | | Man. | Elec. | Air | Man. | Elec. | | | | | | | |
| 10 (101) | 430 | 435 | VLP-106P142 | ● | | | ● | | P-142 | 64 | ● | | 156 | RC-106 | 6 |
| | 430 | 435 | VLP-106PAT1 | | | ● | ● | | PATG-1102N | 98 | ● | | 156 | RC-106 | 6 |
| 25 (232) | 1228 | 510 | XLP-256P392 | ● | | | ● | | P-392 | 64 | ● | | 158 | RC-256 | 6 |
| | 1228 | 510 | XLP-256XA11G | | | ● | ● | | XA-11G | 100 | ● | | 158 | RC-256 | 6 |
| 50 (498) | 980 | 990 | XLP-506P802 * | ● | | | ● | | P-802 | 66 | ● | | 159 | RC-506 | 6 |
| | 980 | 990 | XLP-506XA12G * | | | ● | ● | | XA-12G | 100 | ● | | 159 | RC-506 | 6 |
| | 980 | 990 | XLP-506ZES * | | ● | | | ● | ZE4410SE-E050 | 90 | | ● | 156 | RR-506 | 32 |
| | 980 | 990 | XLP-5013ZES * | | ● | | | ● | ZE4410SE-E050 | 90 | | ● | 334 | RR-5013 | 32 |
| 75 (718) | 970 | 990 | XLP-756XA12G * | | | ● | ● | | XA-12G | 100 | ● | | 156 | RC-756 | 32 |
| 100 (933) | 989 | 990 | VLP-1006ZES | | ● | | | ● | ZE5420SW-E050 | 90 | | ● | 168 | RR-1006 | 32 |
| | 989 | 990 | VLP-10013ZES | | ● | | | ● | ZE5420SW-E050 | 90 | | ● | 333 | RR-10013 | 32 |
| 200 (1995) | 1340 | 1220 | VLP-20013ZES | | ● | | | ● | ZE6420SW | 90 | | ● | 330 | RR-20013 | 32 |

* 50 and 75 ton XLP-Series presses can be ordered as factory assembled press frame. Add suffix “M” to press model number. Example: XLP-506XA12G-M.



= Single-Acting



= Double-Acting

Bench and Workshop Presses

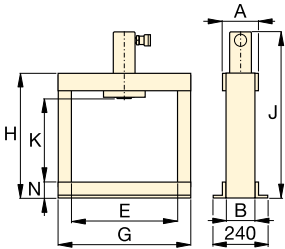


Optional V-Blocks

To facilitate positioning of pipes and bars, or placed upside-down, to serve as a convenient worktable. Featuring precise fit into the press bolster. Each model number includes two V-blocks.

press bolster. Each model number includes two V-blocks.

| To be used with press (ton) | V-Blocks Model Number |
|-----------------------------|-----------------------|
| 10 | VB-10 |
| 25 | VB-25 |
| 50 | VB-501 |
| 75, 100 | VB-101 |
| 200 | A-200 |



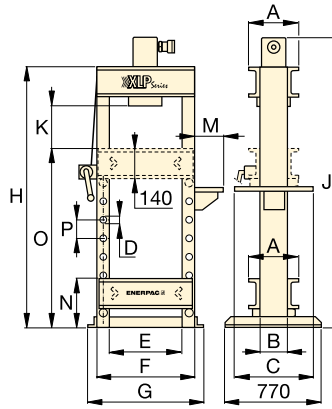
VLP 10 ton

"Hydrajust" Bed Positioning

Allows vertical adjustment of the lower bed on 100 and 200 ton VLP presses.

IMPORTANT: The "Hydrajust" bed positioning is not designed to withstand full cylinder capacity, only to be used for bed adjustment.

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XLP 25 ton

XLP, VLP Series



Capacity:

10 - 200 ton

Maximum Daylight x Width:

1340 x 1220 mm

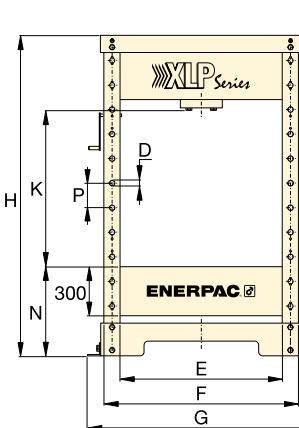
Maximum Operating Pressure:

700 bar

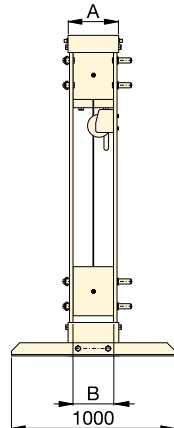


IMPORTANT!

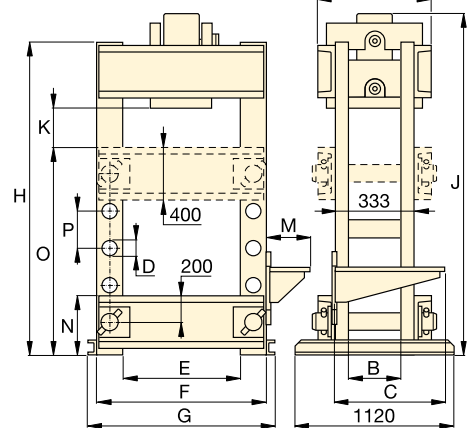
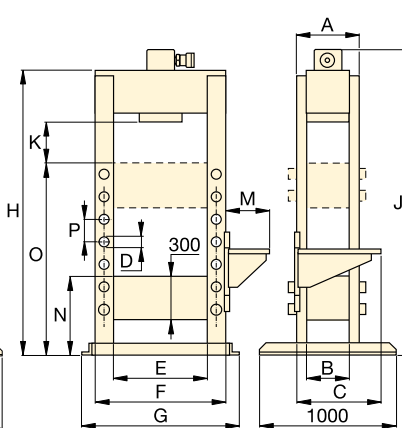
The pressframe of the workshop presses are exclusively designed for pressing operations, not for pulling. For pulling applications please contact Enerpac.



XLP 50 and 75 ton



VLP 100 ton



VLP 200 ton

| Speed (mm/s) ** | | Dimensions (mm) | | | | | | | | | | | | | | | Press Model Number |
|-----------------|----------|-----------------|-----|-----|----|------|------|------|------|------|----------|-----|-----|------|-----|------|--------------------|
| Rapid Advance | Pressing | A | B | C | D | E | F | G | H | J | K | M | N | O | P | (kg) | |
| {2,5} ** | {0,6} ** | 110 | 80 | - | - | 435 | - | 542 | 620 | 748 | 430 | - | 80 | - | - | 49 | VLP-106P142 |
| 10,0 | 1,8 | 110 | 80 | - | - | 435 | - | 542 | 620 | 748 | 430 | - | 80 | - | - | 54 | VLP-106PAT1 |
| {3,4} ** | {0,7} ** | 260 | 140 | 510 | 32 | 510 | 630 | 700 | 1622 | 1740 | 370-1228 | 140 | 212 | 1070 | 122 | 165 | XLP-256P392 |
| 10,0 | 1,3 | 260 | 140 | 610 | 32 | 510 | 630 | 700 | 1622 | 1740 | 370-1228 | 323 | 212 | 1070 | 122 | 170 | XLP-256XA11G |
| {5,5} ** | {0,3} ** | 310 | 240 | - | 32 | 990 | 1190 | 1390 | 1995 | - | 210-980 | - | 540 | - | 150 | 595 | XLP-506P802 * |
| 4,7 | 0,6 | 310 | 240 | - | 32 | 990 | 1190 | 1390 | 1995 | - | 210-980 | - | 540 | - | 150 | 600 | XLP-506XA12G * |
| 10,0 | 2,0 | 310 | 240 | - | 32 | 990 | 1190 | 1390 | 1995 | - | 210-980 | - | 540 | - | 150 | 660 | XLP-506ZES * |
| 10,0 | 2,0 | 310 | 240 | - | 32 | 990 | 1190 | 1390 | 1995 | - | 210-980 | - | 540 | - | 150 | 700 | XLP-5013ZES * |
| 3,2 | 0,4 | 420 | 330 | - | 40 | 990 | 1240 | 1430 | 1995 | - | 210-970 | - | 540 | - | 150 | 900 | XLP-756XA12G * |
| 10,0 | 2,1 | 400 | 340 | 560 | 40 | 990 | 1240 | 1400 | 1879 | 1885 | 239 | 425 | 540 | 1290 | 150 | 970 | VLP-1006ZES |
| 10,0 | 2,1 | 400 | 340 | 560 | 40 | 990 | 1240 | 1400 | 1879 | 2050 | 239 | 425 | 540 | 1290 | 150 | 993 | VLP-10013ZES |
| 6,6 | 1,6 | 553 | 233 | 560 | 76 | 1220 | 1620 | 1740 | 2285 | 2370 | 377 | 425 | 453 | 1415 | 254 | 1992 | VLP-20013ZES |

** {...} = advance speed in mm per handpump stroke.

▼ Shown: BPR-5075



Expert Designed Versatility

- Quality welded frame for maximum strength and long life
- Frame rolls easily on 4 steel roller bearings
- Exclusive 'Hydra-Lift' bolster for effortless adjustment of the vertical daylight
- Standard roller head design allows lateral movement and locking of the cylinder up to 300 mm left or right of centre
- All models in the quick selection chart have been matched to an electric pump, double-acting cylinder, hose and gauge, offering the complete package
- Roll-Frame design features a stationary bed with the ability to support heavy loads
- Hydraulic clamp cylinder locks roll-frame into position.



Cylinder adjustment

Cylinder adjustment allows horizontal side to side cylinder positioning.



Hydra-Lift

Allows easy, effortless daylight adjustment. Standard on all Roll-Frame presses.

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Optional V-Blocks

These 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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▼ SELECTION CHART

| Press Capacity ton (kN) | Vertical Daylight A (mm) | | Maximum Bed Width E (mm) | Electric Pump | | Press Model Number | Double-Acting Cylinder | | | Speed (mm/sec) | |
|----------------------------|--------------------------|------|--------------------------|---------------|------|--------------------|------------------------|--------------|------|----------------|----------|
| | min. | max. | | Model Number | Page | | Stroke (mm) | Model Number | Page | Rapid Advance | Pressing |
| 50 (498) | 152 | 942 | 730 | ZE5420SW-S | 90 | BPR-5075 | 334 | RR-5013 | 32 | 4,1 | 3,9 |
| 100 (933) | 159 | 1048 | 889 | ZE3420SW | 90 | BPR-10075 | 333 | RR-10013 | 32 | 7,7 | 0,7 |
| 200 (1995) | 279 | 1295 | 1219 | ZE4420SW | 90 | BPR-20075 | 330 | RR-20013 | 32 | 5,2 | 0,5 |

Roll-Frame Presses

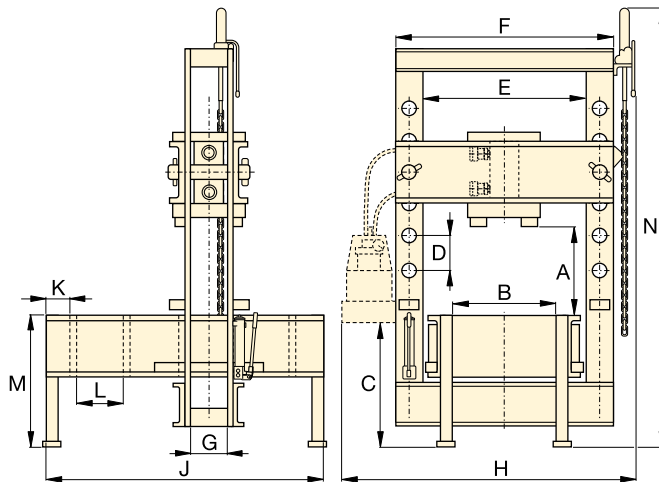


▲ For offshore application high capacity spring loaded cylinders need to be assembled and tested. A special 100 ton roll frame press, with long stroke cylinder has been constructed. All movements are operated and monitored through a PLC controlled pendant.



IMPORTANT!

The frameworks of the presses are exclusively designed for pressing operations, not for pulling. For pulling applications please contact Enerpac.



BPR Series



Capacity:

50 - 200 ton

Maximum Daylight x Width:

1295 x 1222 mm

Maximum Operating Pressure:

700 bar



Gauges

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

| Press Capacity | Gauge Model Number | Adaptor Model Number |
|----------------|--------------------|----------------------|
| ton | | |
| 50 | GF-50B | GA-2 |
| 100 | GF-871B | GA-3 |
| 200 | GF-200B | GA-3 |

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

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Spring Centred Valves

Manual valves on electric and air pumps of Enerpac presses are Spring Centred Valves. The handle will automatically move into the neutral valve position when released.

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| Roll-Frame Press Dimensions (mm) | | | | | | | | | | | | | Press Model Number | |
|----------------------------------|-----|-----|-----|------|------|-----|------|------|-----|-----|-----|------|--------------------|-----------|
| A (min.-max.) | B | C | D | E | F | G | H | J | K | L | M | N | | (kg) |
| 152 - 942 | 526 | 971 | 264 | 730 | 933 | 127 | 1420 | 1626 | 203 | 270 | 762 | 2870 | 917 | BPR-5075 |
| 159 - 1048 | 673 | 965 | 222 | 889 | 1143 | 146 | 1605 | 1676 | 203 | 270 | 813 | 3021 | 1767 | BPR-10075 |
| 279 - 1295 | 984 | 933 | 254 | 1219 | 1626 | 232 | 2150 | 2197 | 203 | 381 | 915 | 3200 | 4186 | BPR-20075 |

▼ Shown from left to right: A-220, A-330 and A-310



The Standard Workshop Tools

C-Clamp Press

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

Arbor Press

- 10 and 30 ton capacity
- Foot mounting holes for horizontal or vertical positioning
- Machined working surfaces for easier fixturing
- Slotted back to simplify loading and unloading of longer parts.

▼ A-310 Arbor Press



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).

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Smooth Saddle A-185

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

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10 ton Bench Presses

For 10 ton VLP-Series Bench Presses selection see:

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▼ SELECTION CHART

| Press Type | Press Capacity ton (kN) | Maximum Vertical Daylight (mm) | Maximum Bed Width (mm) | Press Model Number | Cylinder Model Number * | Page: |
|------------|----------------------------|-----------------------------------|---------------------------|--------------------|-------------------------|-------|
| C-Clamp | 5 (45) | 165 | 51 | A-205 | 5 ton RC-cylinder * | 6 |
| | 10 (101) | 228 | 57 | A-210 | 10 ton RC-cylinder * | 6 |
| | 20 (178) | 305 | 70 | A-220 | 25 ton RC-cylinder ** | 6 |
| Arbor | 10 (101) | 227 | 135 | A-310 | 10 ton RC-cylinder * | 6 |
| | 30 (295) | 260 | 178 | A-330 | RC-308 * | 6 |

* Recommended cylinder must be ordered separately.

** Must be limited to 20 ton.

C-Clamp and Arbor Presses



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

A Series



Capacity:

5 - 30 ton

Maximum Daylight x Width:

305 x 178 mm

Maximum Operating Pressure:

700 bar



IMPORTANT!

For high-cycle production applications, the C-Clamp and Arbor presses should be limited to 50% of their capacity.



Hydraulic Cylinders

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

Page: **6**

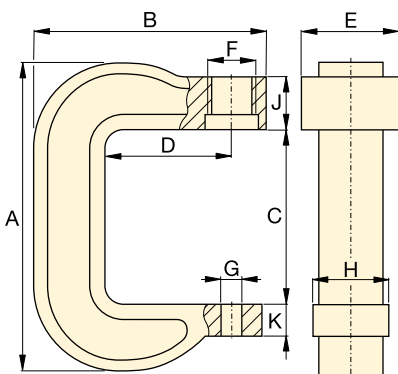
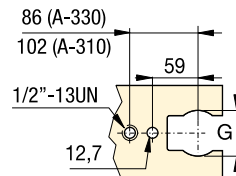


Hydraulic Pumps

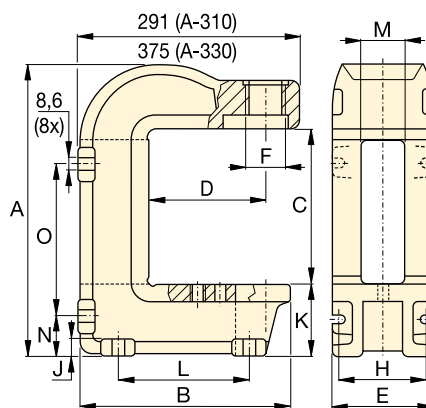
Pumps for C-Clamps and Arbor Presses must be ordered separately.

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Top View Working Surface






A-205, A-210, A-220



A-310, A-330

| Press Dimensions (mm) | | | | | | | | | | | | | | |  | Press Model Number |
|-----------------------|-----|-----|-----|-----|--|----|-----|----|-----|-----|----|----|-----|------|---|--------------------|
| A | B | C | D | E | F | G | H | J | K | L | M | N | O | (kg) | | |
| 291 | 203 | 165 | 95 | 73 | 1½" -16 UNS | 26 | 51 | 66 | 25 | - | - | - | - | 7 | A-205 | |
| 406 | 283 | 228 | 152 | 83 | 2¼" -14 UNS | 26 | 76 | 64 | 41 | - | - | - | - | 17 | A-210 | |
| 540 | 346 | 305 | 152 | 121 | 3 ⁵ / ₁₆ " -12 UNS | 26 | 95 | 70 | 44 | - | - | - | - | 38 | A-220 | |
| 414 | 281 | 230 | 152 | 135 | 2¼" -14 UNS | 63 | 122 | 19 | 97 | 175 | 65 | 54 | 219 | 27 | A-310 | |
| 557 | 353 | 260 | 152 | 178 | 3 ⁵ / ₁₆ " -12 UNS | 63 | 140 | 25 | 165 | 203 | 67 | 98 | 276 | 86 | A-330 | |

| Description | Press Capacity and Press Series | Model Number | | Features |
|----------------------------------|---|---|---|---|
| V-Blocks | 10 ton Bench VLP-Presses 25 ton Workshop XLP-Presses 50 ton Workshop XLP-Presses 75 ton XLP- and 100 ton VLP-Presses 200 ton Workshop VLP-Press 200 ton BPR-Roll-Frame Press | VB-10 VB-25 VB-501 VB-101 A-200 A-200R |  | <ul style="list-style-type: none"> Facilitate positioning of pipes and bars All V-Block model numbers include 2 V-blocks. |
| Hydra-Lift | 50 ton BPR-Roll-Frame Press 100 ton BPR-Roll-Frame Press 200 ton BPR-Roll-Frame Press | IPLR-100 IPLR-100 IPLR-200 |  | <ul style="list-style-type: none"> Allows easy, effortless daylight adjustments Includes accessory chain. |
| Hydrajust Bed Positioning | 100 ton Workshop VLP-Presses 200 ton Workshop VLP-Press IMPORTANT! The "Hydrajust" bed positioning is not designed to withstand full cylinder capacity, only to be used for bed adjustment. | VHJ-100 BSS-5380 |  | <ul style="list-style-type: none"> Allowing effortless daylight adjustment by moving the lower bed up and down Can be used with presses equipped with double-acting cylinder. |

▼ PRESS APPLICATION IDEAS



◀ 600 Ton High-Accuracy Collar Press

For production of accelerator coils, sheet metal needs to be formed into a specific shape and size. The end product of this forming is a cylindrical collar, which has a very solid structure, specific shape, and a tight tolerance for circularity and concentricity.

The Enerpac team was consulted to accomplish this task using proven high-pressure technology. The 600-ton press consisted of two separate hydraulic systems. The first system featured eight 25-ton cylinders, to position the sheets, while the second system featured eight 75-ton cylinders, to press the sheets into the correct shape. The results were a hydraulic press system that increased productivity and lowered operating costs.

Fully Automated PLC-Controlled 1800 Ton High-Accuracy Press ▶

The pressing and heating cycle, during the production of magnetic acceleration coils, required high force and high-accuracy to ensure absolute quality.

Enerpac was consulted to assist in the design of a high accuracy production press. Control of the press force is monitored along with the temperature of the coils during forming by a PLC Control System.



Tension Meter and Load Cells

▼ Shown: LH-102 and TM-5 (in middle)



TM LH Series



Capacity:

900 - 90.000 kg

Accuracy, % of full scale:

± 2%



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

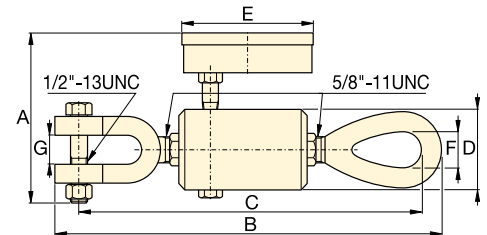
If your application requires a calibrated tool, it must be submitted for certification testing. Certification is NOT available from Enerpac.

Tension Meter TM-5

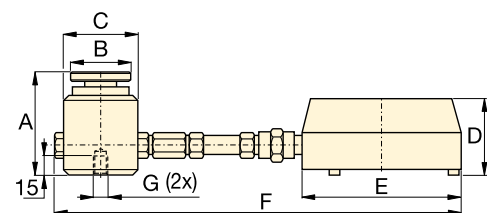
- Accuracy ± 2% of full scale
- Zinc and bronze plated to resist corrosion
- Dual-range readout in kilograms and pounds
- Maximum indicating pointer reading for pre-selected forces or to maintain force readings
- Cushioned metal case provides safe storage and transport.

Load Cells LH-Series

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



TM-5



LH-Series

▼ SELECTION CHART

| Type | Gauge Capacity | | Model Number | Minimum Reading | | Gauge Scale Increments | | Dimensions (mm) | | | | | | |
|--------------------------------|----------------|---------|-----------------|-----------------|--------|------------------------|-------|-----------------|-----|-----|----|-----|------|------------------|
| | (kg) | (lbs) | | (kg) | (lbs) | (kg) | (lbs) | A | B | C | D | E | F | G* |
| Direct Mounted | 4.500 | 10.000 | TM-5 | 500 | 1.000 | 100 | 100 | 120 | 247 | 236 | 50 | 93 | 22 | 19 |
| Direct Mounted Load Cell | 900 | 2.000 | LH-10 | 100 | 200 | 20 | 20 | 77 | 44 | 57 | 60 | 101 | 215 | ¼" - 20, 44,5 BC |
| | 4.500 | 10.000 | LH-50 | 500 | 1.000 | 100 | 100 | 77 | 44 | 57 | 60 | 101 | 215 | ¼" - 20, 44,5 BC |
| Remote Mounted with 0,6 m Hose | 900 | 2.000 | LH-102 | 100 | 200 | 20 | 20 | 77 | 44 | 57 | 60 | 147 | 846 | ¼" - 20, 44,5 BC |
| | 4.500 | 10.000 | LH-502 | 500 | 1.000 | 100 | 100 | 77 | 44 | 57 | 60 | 147 | 846 | ¼" - 20, 44,5 BC |
| | 9.000 | 20.000 | LH-1002 | 1.000 | 2.000 | 200 | 200 | 77 | 44 | 57 | 60 | 147 | 846 | ¼" - 20, 44,5 BC |
| Remote Mounted with 1,8 m Hose | 21.000 | 50.000 | LH-2506 | 3.000 | 5.000 | 500 | 500 | 101 | 69 | 85 | 60 | 147 | 2094 | ¾" - 24, 63 BC |
| | 45.000 | 100.000 | LH-5006 | 5.000 | 5.000 | 1.000 | 1.000 | 132 | 101 | 127 | 60 | 147 | 2135 | ¾" - 24, 89 BC |
| | 90.000 | 200.000 | LH-10006 | 10.000 | 10.000 | 1.000 | 2.500 | 158 | 127 | 158 | 60 | 147 | 2166 | ¾" - 24, 102 BC |

* BC = Bolt Circle