

▼ Shown: PRASA10027L and Accessory Locking U-Rings



Safe, Efficient, Mobile Load Lifting

- 60, 100, 150 and 200-ton capacities with pneumatic or electric pumps for the toughest jobs
- 4-inch ground clearance for transport over rail and rough terrain
- Three-position handle provides easy tilt back and transport
- Complies with ASME/ANSI B30.1:2015 & CE specifications
- Easy-to-change external filter minimizes down time
- Rugged, fully enclosed 24-inch wide frame with no exposed fittings or hoses
- SUP-R-STACK™ Extension System allows lifting at all heights without blocking.



Pendant Cord

Standard 12' pendant cord for air driven units with pneumatic valves and 20' pendant cord for electric driven units keeps operator away from the load.

▼ Enerpac POW'R-RISER® used in mining operations to lift heavy equipment.



Capacity	Stroke	Electric Pump Model Number	Weight
(ton)	(in)	(115 VAC)	(lbs)
60	14	PREMB06014L	390
	27	PREMB06027L	600
100	16	PREMB10016L	510
	27	PREMB10027L	600
	16	-	-
150	27	-	-
	15.5	-	-
	26.5	-	-
	15.5	PREMB15016L	570
200	26.5	PREMB15027L	708
	15.3	-	-
	24.3	-	-

(PR-Series not available in Canada. Contact Enerpac.)

POW'R-RISER® Lifting Jack



SUP-R-STACK™ Extensions

Increase useful height from 5" to 18".

Model No.	Size (in)	Model No.	Size (in)
PRE5	5	PRE11	11
PRE7	7	PRE14	14
PRE9	9	PRE18	18
PRES6024	Extension set includes PRE5, PRE7, PRE11, PRE18		



Spacers

Fine tune your Extension stack height.

Model No.	Size (in)	Model No.	Size (in)
PRS1	1	PRS3	3
PRS2	2	-	-
PRS4	Set includes (2) PRS1, (1) PRS2 and (1) PRS3		

PR Series



Rated Lifting Capacity:

60-200 tons

Stroke:

14-27 inches

Maximum Operating Pressure:

10,000 psi



WARNING!

Extensions: Any two Extensions may be stacked for loads up to 60 tons. For loads over 60 tons or strokes over 14" only one Extension and one Spacer can be used.

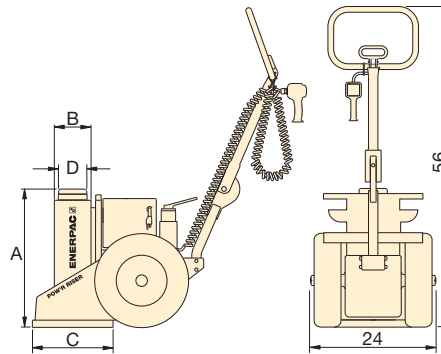
Spacers: Never exceed 3" in total Spacer height.

Cap. (ton)	Swivel Load Cap	Locking U-Rings					Set Model Number	Locking U-Ring Sets Include						
		1 in.	3 in.	4 1/4 in.	5 1/2 in.	10 in.		(quantity and model numbers)						
							2X	1X	2X	1X				
60	PRTS60	PRU11	PRU13	PRU14	-	PRU110	1) PRUS126	PRU11	PRU13	PRU14	-			
							2) PRUS137	PRU11	PRU13	PRU14	PRU10			
100	PRTS60	PRU11	PRU13	PRU14	-	PRU110	1) PRUS126	PRU11	PRU13	PRU14	-			
							2) PRUS137	PRU11	PRU13	PRU14	PRU110			
150	PRTS150	PRU151	PRU153	-	PRU155	PRU1510	3) PRUS1526	PRU151	PRU153	PRU155	-			
							2) PRUS1537	PRU151	PRU1510	PRU155	-			
200	PRTS200	PRU201	PRU203	-	PRU205	PRU2010	3) PRUS2026	PRU201	PRU203	PRU205	-			
							2) PRUS2037	PRU201	PRU2010	PRU205	-			

¹⁾ For 14 and 16" stroke models

²⁾ For 27" stroke models

³⁾ For 15.5" stroke models



Locking U-Rings

For safe mechanical cribbing of a lifted load, accessory Locking U-Rings can be placed around an extended piston and come in four lengths for each POW'R-Riser® capacity, and are available individually or in sets. Locking U-Rings are accommodated by storage racks integral to the POW'R-Riser®.

Air Pump	Weight (lbs)	A (in)	B (in)	C (in)	D (in)	Max. Additional Stack Height Using Optional Ext. System (in)	Valve Type
PRAMA06014L	390	24	6.4	14	4	32*	Manual
PRAMA06027L	600	37	6.4	14	4	11	
PRAMA10016L	510	26	7.0	18	4	21**	Pneumatic
PRAMA10027L	600	37	7.0	18	4	11	
PRASA10016L	510	26	7.0	18	4	21**	
PRASA10027L	600	37	7.0	18	4	11	
PRASA15016L	570	26	8.0	18	5	21**	Pneumatic
PRASA15027L	708	37	8.0	18	5	11	
-	-	26	8.0	18	5	21**	Manual
-	-	37	8.0	18	5	11	
PRASA20016L	640	26	9.5	20	6	21**	Pneumatic
PRASA20027L	825	37	9.5	20	6	11	

For power source, the following characters should be inserted in the 5th space of the model number.

Ordering Example:

Model No. PREMI06014L is a 14" stroke, 60 ton model, with a manual valve and a 208-240 VAC, 1-ph electric motor.

- A Air Pump, 50 scfm, 80 psi
- B 115 VAC, 1-ph., 50-60 Hz, 20 A
- E 208-240 VAC, 1-ph., 50-60 Hz, Euro Plug, 10 A
- I 208-240 VAC, 1-ph., 50-60 Hz, USA Plug, 10 A
- G ¹⁾208-240 VAC, 3-ph., 50-60 Hz
- W ¹⁾380-415 VAC, 3-ph., 50-60 Hz
- J ¹⁾440-480 VAC, 3-ph., 50-60 Hz
- R ¹⁾575 VAC, 3-ph., 50-60 Hz

¹⁾ Not available for 60-ton capacity

* Based on one 18" and one 11" Extension and one 3" Spacer.

** Based on one 18" Extension and one 3" Spacer.

▼ Shown: PL20025-ASA and PL20014-ASA



Efficient Lifting with Continuous, Automatic Load Locking



Pow'R-LOCK™ Self-Locking Lift System

Only the Pow'R-LOCK™ Lift System provides continuous positive locking of the load through all stages of lifting and lowering. No operator intervention is required to activate or deactivate the automatic locking system.

Two different stroke lengths are available. Both models are powered by an external compressed air system (user-supplied). A convenient two-button pendant controls operation of the Lift System's air motor and directional control valve.

- Provides continuous locking protection during lift, lower and hold functions
- Patent-pending control technology synchronizes cylinder and lock nut for smooth and efficient lifting and lowering
- Unique double-acting cylinder offers a low collapsed height to accommodate more lifting applications
- Simple 2-button pendant allows operation of raise and lower functions from up to 20 feet away
- All exposed load-bearing steel cylinder components utilize a nitrocarburizing treatment to reduce wear and resist corrosion
- Ergonomic handle has six positions for comfortable handling and folds when not in use
- Meets ANSI /ASME B30.1-2015, AS/NZS-2538, AS/NZS-2693 certification criteria



Tilt Load Cap

All Pow'R-LOCK™ Lift System models feature a Tilt Load Cap to reduce side-loading.



Enerpac declares that this product has been tested and conforms to applicable standards and is approved to carry the CE mark. An EU Declaration of Conformity is enclosed separately.



◀ The PL-Series Pow'R-LOCK Portable Lift System.

PL-Series, Pow'R-LOCK™ Portable Lift System



Accessories

Flat Load Cap – Non-tilt load cap has lower profile for tight lifting spaces.

Spacers – Minimize gap between load cap and lifting point to maximize hydraulic stroke of the jack.

Extensions – Stackable, with large alloy steel locating studs to resist effects of side-loading.

Extension Base Adapter – Extension Base Adapter design eliminates risk of improper stacking when using more than one extension.



PL Series

Rated Lifting Capacity:

200 tons

Stroke:

14 or 24.5 inches

Maximum Operating Pressure:

10,000 psi

▼ ACCESSORIES

	Model Number	Description	Height (in)	PL20014-ASA	PL20025-ASA
	PLC1	Flat Load Cap	1.3	x	x
	PLS1	Spacer	1.0	x	x
	PLS2	Spacer	2.0	x	x
	PLE5	Extension	5.0	x	x
	PLE7	Extension	7.0	x	x
	PLE9	Extension	9.0	x	x
	PLE11	Extension	11.0	x	-
	PLE14	Extension	14.0	x	-
	PLB12	Extension base adapter	12.0	x	-



WARNING!

PLE11 and **PLE14** Extensions and **PLB12** Extension Base Adapter are to be used with the "short" model **PL20014-ASA** only.

Use of these extensions on the "tall" model **PL20025-ASA** will result in an excessive maximum lifting height. Load could become unstable and drop, resulting in possible personal injury and/or property damage.

Model No.	Max. Additional Stack Height* (in)
PL20014-ASA	28.0
PL20025-ASA	9.0

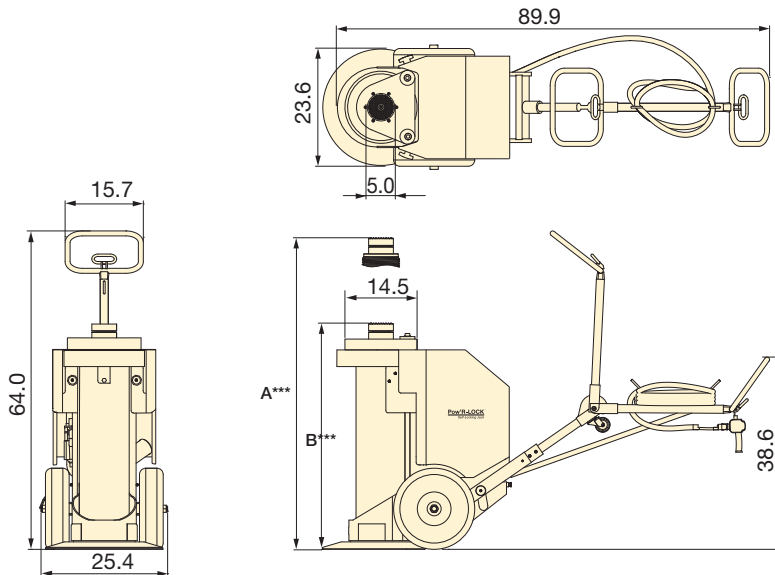
* Using optional PLB and PLE-Series extensions and PLS-Series spacers. Load cap height is NOT included in the stack height.



Safety First

When lifting large, heavy vehicles certain precautions must be followed. Follow your published safety directions for lifting and cribbing your loads.

The **Pow'R-LOCK™** Lift System provides load/lock protection, but you must follow the safety directions for load cribbing operations.



Capacity (ton)	Stroke (in)	Model Number	Cylinder Lifting Speed * in/min		Recommended Air Supply**		A *** (in)	B *** (in)	Wt. (lbs)
			Load	No Load	(CFM)	(psi)			
200	14.0	PL20014-ASA	2.0	2.4	130-150	55-100	48.0	34.0	1105
	24.5	PL20025-ASA	2.0	2.4					

* Depending on available airflow, regulator setting, pump speed and load weight.
 ** Minimum dynamic air pressure of 55-60 psi, 90-100 psi required to achieve 200-ton capacity.
 *** Height of items A and B is with swivel load cap installed. Subtract 2-inches if flat load cap is used.



Pow'R-RISER® Lifting Jack

When automatic load-locking is not required, the Enerpac **Pow'R-RISER®** jack provides a mobile lifting solution.

For more information go to:
www.enerpac.com

▼ Shown: **BLS-1006**



- Climbing Jacks include integral tilt saddles with maximum tilt angles up to 5°
- Large base with anti-rotation rod for stability and safety
- Built-in safety valve prevents accidental over-pressurization
- Baked enamel finish for increased corrosion resistance
- CR-400 couplers included on all cylinder models

A Simple Solution to Incremental Lifting



Lifting Height

Climbing Jacks overcome the usual limitation of lift height imposed by the jack's plunger stroke length. Large objects, such as oil tanks, can be lifted, held and lowered for maintenance without sending for a crane.



Split-Flow Pumps

SFP-Series Pumps with multiple outlets with equal oil flow. For lifting applications on multiple points Split-Flow

Pumps are a far better alternative than using independently operated pumps.

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EVO-Series, Synchronous Lifting Systems

The EVO-system is the ideal system for stage lifting. The system has 9 work modes

including the stage lift work mode to easily step through each stage of the lifting cycle.

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▼ Synchronous Stage Lifting: 48 double-acting jacks (25 and 50 ton) are networked into a 16 point synchronous system to lift this 164-foot, 1100-ton building up to a height of 8-feet to construct a new floor level.



Cylinder Capacity (tons)	Stroke (in)	Model Number	Max. Cylinder Capacity (tons)	
			Push	Pull
55	5.91	BLS-506	55	12
105	6.34	BLS-1006	105	48
154	5.94	BLS-1506	154	74
220	5.94	BLS-2006	220	113

Double-Acting Climbing Jacks



◀ Typical stage-lift application using a custom built Enerpac system to lift the 360 ton Akkerwinde wooden bridge in the Netherlands.

BLS Series



Capacity per Lifting Point:

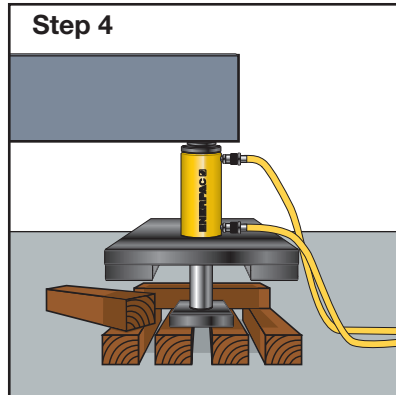
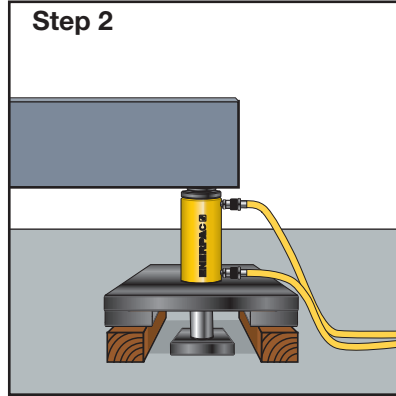
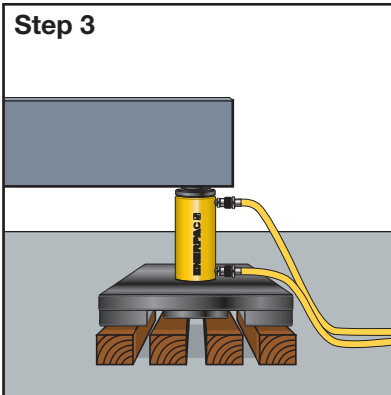
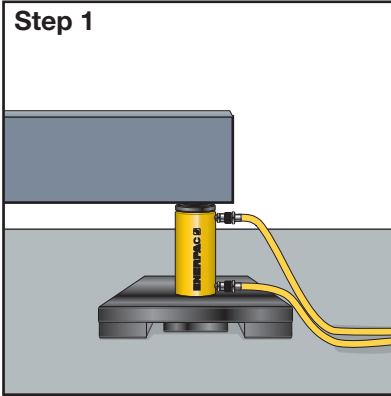
55 - 220 tons

Stroke per Stage:

5.91 - 6.34 inches

Maximum Operating Pressure:

10,000 psi



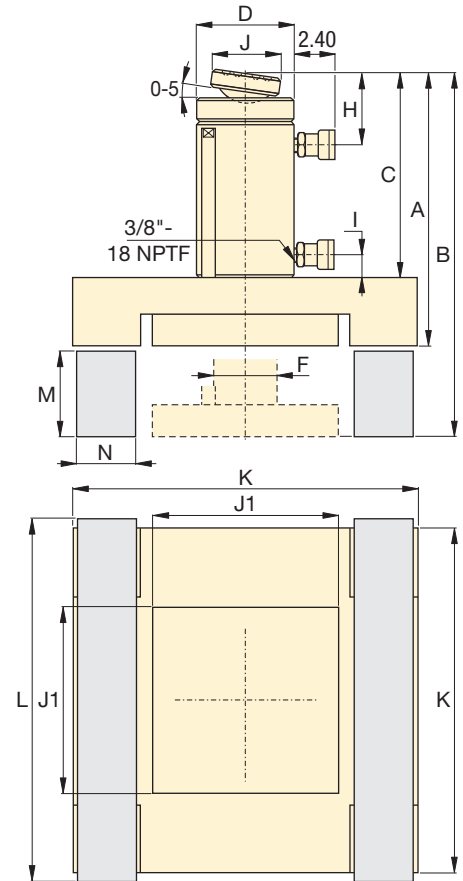
▲ Stage Lifting Sequence

Step 1: The Climbing Jack is placed on a solid support under the load (retracted plunger).

Step 2: Plunger extends, lifting the load and giving clearance to insert two outer blocks under the spreading plate.

Step 3: Plunger retracts, giving clearance to position the central blocks which will support the plunger plate for the next extension.

Step 4: Plunger extends, lifting the load, giving clearance to insert two new blocks, placed crosswise under the spreading plate.



Cylinder Effective Area (in ²)		Oil Capacity (in ³)		Climbing Jack Dimensions (in)											Support Blocks * and Dimensions (in)			Wt. (lbs)	Model Number
Push	Pull	Push	Pull	A	B	C	D	F	H	I	J	J1	K	Material	L	M	N		
11.04	3.33	67.80	20.44	15.98	21.89	12.52	5.00	3.11	2.24	1.42	1.97	9.45	20.28	Azobe Wood	22.24	5.51	4.72	375	BLS-506
20.66	9.64	136.57	63.77	17.52	23.86	13.50	6.97	3.74	2.99	0.94	2.80	12.99	26.38		28.35	5.91	6.30	695	BLS-1006
30.71	14.79	188.56	90.80	18.58	24.57	14.57	8.00	4.49	3.70	1.54	5.12	9.06	18.70	Solid aluminum or steel	19.69	5.51	4.53	710	BLS-1506
44.21	22.50	264.35	134.80	20.08	26.02	15.24	9.76	5.24	4.02	1.46	5.12	10.63	21.65		22.64	5.51	5.31	825	BLS-2006

* Support blocks are not supplied by Enerpac.

▼ SHS-Series 4-Point SyncHoist System



Accurate Hoisting and Load Positioning Enhancing a Crane's Capability



Synchronous Hoisting

Enerpac SyncHoist is a unique crane product for below-the-hook positioning of heavy loads that require precision placement. The SyncHoist system may reduce the number of cranes needed and reduce the costs of multiple picks.

Functions

- High precision horizontal and vertical load positioning
- Pre-programmed positioning, tilting and aligning

Applications

- Positioning of rotor, stator and propeller blades of wind turbines
- Positioning of roof sections, concrete elements, steel structures
- Positioning of turbines, transformers, fuel rods
- Precise machinery loading, mill rod changes, bearing changes
- Precise positioning of pipe lines, blow out valves
- Positioning and aligning of ship segments prior to assembly

- High-precision load maneuvering using one crane
- Reduces the risk of damage from oscillations of wire rope due to crane jogging and sudden starts/stops
- Vastly improving worker safety, operating speed and control
- PLC-controlled hydraulics turn lifting into high-accuracy hoisting and load positioning system
- Double-acting push/pull cylinders with load-holding valves for added safety
- Increased efficiency compared to conventional load positioning methods

Options for system management and control:

- Manual control: system warning functions
- Automatic control: fully PLC-monitored system with programmable functions using touch screen and system warning functions
- Wireless control: self-contained hydraulics with hand-held control

▼ Bridge segments are hoisted from the ground, being positioned with a 4-point SyncHoist system with fully monitored cylinders.



▼ SyncHoist Powerpack to operate the 4 lifting points.



▼ A SyncHoist system used to align steel blocks of the ship's control tower sections allowing gradual lifting and positioning of the load.



SyncHoist - High Precision Load Positioning



What is SyncHoist?

Enerpac SyncHoist is a hydraulically operated auxiliary attachment for high precision load positioning for cranes. The SyncHoist system can be used for pre-programmed positioning, tilting and aligning of loads.

- Complete system tested in compliance with European lifting directive and safety requirements
- BTH-1 - 2014 compliant design of below-the-hook lifting devices

SyncHoist improves safety, operating speed and control of load movement

Geometric positioning of heavy loads in a horizontal and vertical plane are frequently done using more than one crane. Synchronizing movements between cranes are difficult and risky. The lifting inaccuracy can result in damage to the load and support structures and puts workers at risks. The SyncHoist system can be used for controlled hydraulic horizontal and vertical material handling.

System management and control

Contact Enerpac for the following options, or other customized stroke, capacity and control configurations.

1. Manual control

- Valves with manual levers
- Warnings for thermal motor protection
- Visual check: oil level, filter indicator

2. Automatic control

- Load and stroke monitoring, and stroke control
- PLC-control and touch screen
- Solenoid valves with pendant
- Pre-programmable motions and data recording
- System warnings for:
 - maximum cylinder load control setting
 - stroke and position control
 - thermal motor protection
 - oil level and filter indicator

Autonomous (wireless) system

- Wireless remote control
- Only one electric power connection per lifting point
- Integrated hydraulics, PLC and controls
- No need for hydraulic hoses and cables
- No need for mid-hoist disconnection of hoses and movement of pump

SHS/SHAS Series



Capacity:

60 - 250 ton

Maximum Stroke:

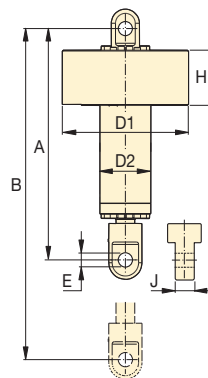
19.69 - 59.06 inches

Accuracy Over Full Stroke:

± .040 inches

Maximum Operating Pressure:

10,000 psi



Capacity (ton)	Total Load (ton)	Cylinder Stroke (in)	Model Number ¹⁾ 460-480 VAC, 3 ph - 60 Hz	Control System	Motor Size (hp)	Number of Pump Outlets and Oil Flow ²⁾ (in ³ /min)	Cylinder Dimensions (in)							Wt. (lbs) ³⁾
							A	B	D1	D2	E	H	J	
4 x 60	240	19.69	SHS 45520 MJ	Manual	10	4 x 85	51.18	70.87	27.17	9.65	2.32	15.16	3.15	992
		39.37	SHS 45540 MJ				70.87	110.24						1378
		59.06	SHS 45560 MJ				90.55	149.61						1764
		19.69	SHS 45520 AJ	Automatic	20	4 x 128	51.18	70.78	27.17	9.65	2.32	15.16	3.15	992
		39.37	SHS 45540 AJ				70.87	110.25						1378
		59.06	SHS 45560 AJ				90.55	149.61						1764
4 x 94	376	19.69	SHS 48520 MJ	Manual	15	4 x 128	52.36	72.05	27.17	10.43	2.83	15.16	3.94	1102
		39.37	SHS 48540 MJ				72.05	111.42						1543
		59.06	SHS 48560 MJ				91.73	150.79						1984
		19.69	SHS 48520 AJ	Automatic	20	4 x 128	52.36	72.05	27.17	10.43	2.83	15.16	3.94	1102
		39.37	SHS 48540 AJ				72.05	111.42						1543
		59.06	SHS 48560 AJ				91.73	150.79						1984
4 x 120	480	39.37	SHS 411040 MJ	Manual	15	4 x 128	23.03	112.40	30.71	12.40	3.35	15.55	4.88	2138
		59.06	SHS 411060 MJ				92.72	151.77						2723
		39.37	SHS 411040 AJ	Automatic	20	4 x 128	73.03	112.40	30.71	12.40	3.35	15.55	4.88	2138
		59.06	SHS 411060 AJ				92.72	151.77						2723
4 x 120	485	39.37	SHAS 411040 WU ⁴⁾	Wireless	4 x 5	—	73.03	112.40	41.85	12.40	3.36	21.26	4.88	2608
		59.06	SHAS 411060 WU ⁴⁾				92.72	151.77						3192
4 x 250	991	39.37	SHAS 422540 WU ⁴⁾	Wireless	4 x 10	—	84.25	123.62	48.62	16.54	5.59	22.83	7.48	7097
		59.06	SHAS 422560 WU ⁴⁾				103.94	143.31						7527

¹⁾ With 4 cylinders and one 460-480 VAC-3 phase-60 Hz power pack (suffix J). For 400 VAC-3 phase-50 Hz power pack change suffix J into W. Example: SHS 45560 MW.

²⁾ Pump and cylinders include 4x 82 feet hydraulic hoses with couplers. ³⁾ Weight per cylinder.

⁴⁾ WU = with US electrical wiring. Change into suffix "WE" for EU-market. Example: SHAS 411060 WE.

Custom Hydraulic Cylinders

There's no substitute for experience in customizing hydraulic cylinders and Enerpac meets the needs of the most demanding applications.

Cylinders are the primary workhorse in hydraulic systems required to push or pull. Although Enerpac offers a wide variety of cylinders to fit many application requirements there are many

applications which require customization. These may include special corrosion protection, ability to handle extreme side loads, or having special mounting needs.



◀ *Large capacity cylinders for extreme applications.*



◀ *Cylinders with special attachments.*



◀ *Custom private labeled cylinders for OEM applications.*

OVERVIEW



▲ *Custom 500-ton cylinders with 72-inches of stroke for lifting electric rope shovels.*

CUSTOMIZABLE FEATURES:

- Stroke
- Capacity
- Paint
- Pressure Rating
- Fitting
- Special Attachments
- Seals
- Imbedded Sensors
- Collapsed Height
- Rod Modifications
- Special Mounting
- Corrosion Resistance

INFRASTRUCTURE



◀ Custom cylinders used for incremental bridge launching systems.

BUILDING CONSTRUCTION



◀ Custom cylinders for jack and slide operations.

INFRASTRUCTURE



◀ Custom SyncHoist cylinders for placement of stadium roof trusses.

POWERGEN



◀ Custom double-acting lock-nut cylinders with internal stroke sensors and an integrated load holding valve for lifting nuclear components.

INFRASTRUCTURE



◀ Custom cylinders with embedded sensors for bridge construction.

POWERGEN



◀ One of three custom SyncHoist cylinders used to place a 1,140-ton nuclear plant module.