



# BLS-Series

## Double-Acting Climbing Jacks

A Simple Solution to  
Incremental Lifting



▼ Shown: **BLS-1006**

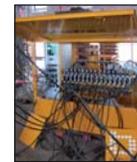


## A Simple Solution to Incremental Lifting



### Lifting Height

Climbing Jacks overcome the usual limitation of lift height imposed by the jacks'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.



### 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.

- 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

▼ 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	49
154	5.94	BLS-1506	154	75
220	5.94	BLS-2006	220	114

# 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:

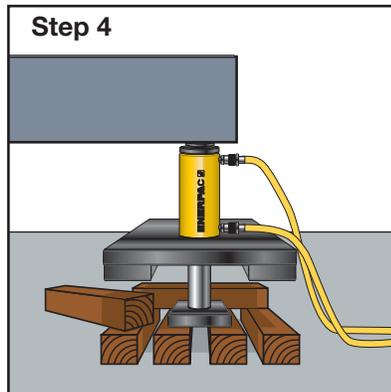
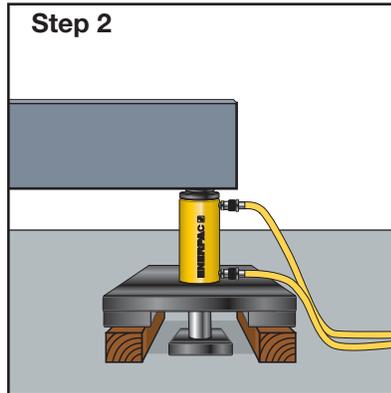
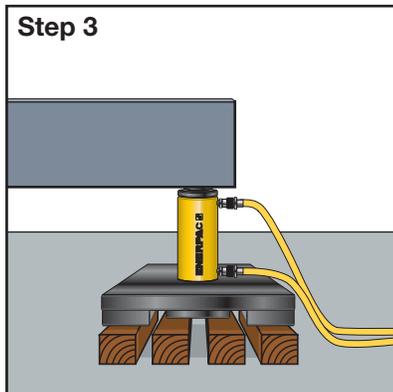
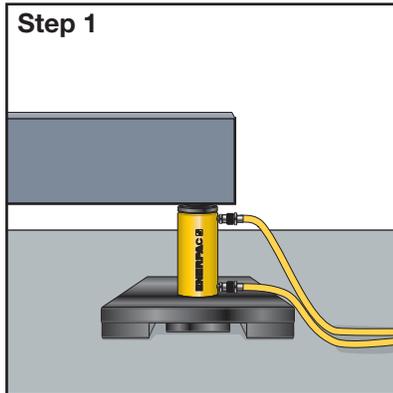
**55 - 220 ton**

Stroke per Stage:

**5.91 - 6.34 in**

Maximum Operating Pressure:

**10,000 psi**



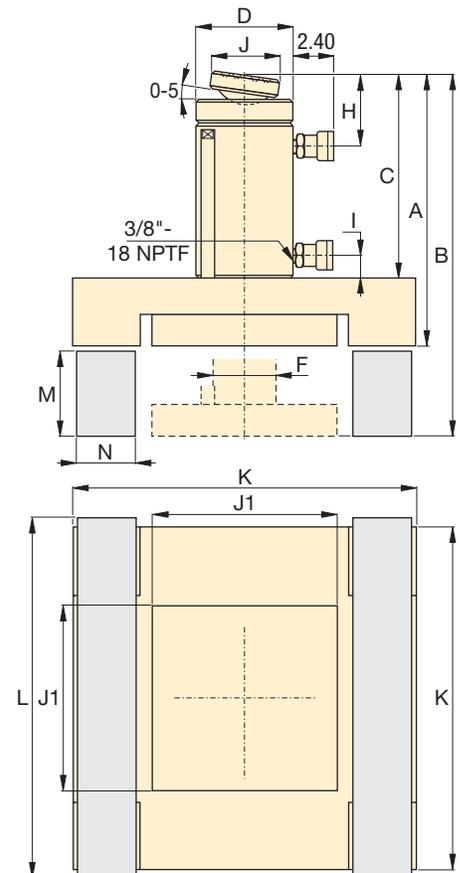
### ▲ Stage Lifting Sequence

**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 <sup>2</sup> )		Oil Capacity (in <sup>3</sup> )		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	(lbs)	
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	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	Wood	28.35	5.91	6.30	695	BLS-1006
30.71	14.79	188.56	90.80	18.62	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
44.27	22.57	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.

# BLS-Series Double-Acting Climbing Jacks



## The Industrial Tools Line

### Cylinders and Lifting Products

- General Purpose
- Aluminum: Lock Nut, Solid- and Hollow Plunger
- Pancake, Low Height
- Pull
- Hollow Plunger
- Precision
- Long Stroke
- High Tonnage
- Jacks
- Level Lift System
- Pow'R-RISER® Lifting Jacks
- Pow'R-LOCK™ Lifting Jacks
- Extreme Environment Products

### Pumps

- Manual
- Cordless and Electric Driven
- Compressed Air Driven
- Petrol Driven

### System Components

- Hoses, Couplers, Oil
- Manifolds, Fittings
- Gauges, Adaptors

### Valves

- 3-and 4-Way Directional
- Pressure and Flow Control

### Presses

- H-Frame, Roll Frame
- C-Clamp and Arbor
- Tension Meters, Load Cells

### Pullers

- Master Pullers Sets
- Multi Purpose Puller Sets
- Posi Lock® Pullers

### Tools

- Maintenance Sets
- Punches
- Lifting Wedges
- Machine Lifts
- Load Skates
- Wedgie, Spreaders
- Cutters
- Pipe Benders

### Bolting Tools

- Multipliers
- Torque Wrenches
- Impact Sockets
- Wrench and Tensioner Pumps
- Twin Safety Hoses
- Nut Cutters / Splitters
- Flange/Wedge Spreaders
- Flange Alignment Tools
- Flange Face Tool

### Integrated Solutions

- Synchronized Lifting Systems
- Jack-Up Systems
- Bridge Launching Systems
- Synchronized Hoisting Systems
- Hydraulic Gantries
- Heavy Lifting Strand Jacks
- Skidding Systems
- Self-Erecting Towers
- Self-Propelled Modular Transporter
- Chain Pulling Systems
- Climbing Jacks
- Split Flow Pumps

## Enerpac Worldwide Locations

For a complete list of addresses see:  
[www.enerpac.com/en-us/enerpac-locations](http://www.enerpac.com/en-us/enerpac-locations)

## About Enerpac

Enerpac is the leading global provider of high-pressure hydraulic tools and solutions with a broad range of products, local expertise and worldwide distribution network. With a proven track record in a wide range of markets, Enerpac designs and manufactures high-quality tools and solutions for all industrial applications.

Enerpac has gained unique experience in delivering hydraulic solutions for the controlled movement and positioning of heavy objects. Enerpac supports your business by offering the right solutions and service to help you get your work done efficiently and safely.



### [www.enerpac.com](http://www.enerpac.com) for latest Enerpac information

Visit the Enerpac Web Site and find out about:

- Learn more about hydraulics
- Promotions
- Online Bolting Calculator
- New products
- Electronic Catalogs
- Trade shows
- Manuals (instruction and repair sheets)
- Nearest Distributors & Service Centers
- Enerpac products in action
- Integrated Solutions

### Ordering Products and Catalogs

To find the name of the closest Enerpac distributor or service center, to request literature or technical application assistance, contact Enerpac at: [www.enerpac.com](http://www.enerpac.com).

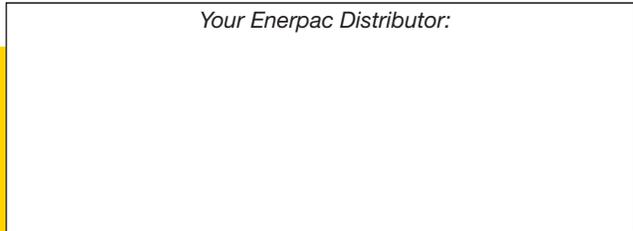


## Hydraulic solutions for controlled movement and positioning of heavy loads

While Enerpac has the world's largest product portfolio for heavy-lifting and load-control applications, we also have the knowledge to put all these programs together or modify them to provide a lift system for your most demanding and unique applications.

- Synchronous Lifting Systems
- Stage Lifting and Climbing Systems
- Bridge Launching Systems
- Synchronous Hoisting Systems
- Hydraulic Gantries
- Heavy-Lifting Strand Jacks
- Skidding Systems
- Self-Erecting Towers
- Self-Propelled Modular Trailer
- Chain Pulling Systems

Your Enerpac Distributor:



e-mail: [info@enerpac.com](mailto:info@enerpac.com)  
Internet: [www.enerpac.com](http://www.enerpac.com)