

JS-Series, Jack-Up Systems

ENERPAC 
POWERFUL SOLUTIONS. GLOBAL FORCE.

▼ JS-250, Enerpac Jack-Up System (one lifting tower shown)



- Self-contained hydraulics in each jack-up unit for uncluttered work area
- Synchronously lift loads with multiple jack-up units. The most common system set-up includes 4 jack-up units
- Lifting barrels are stacked together to mechanically hold the load
- Up to 5% side load capacity depending on lifting height
- Computer controls for operating the jack-up system with automatic and manual lifting settings.

Incremental Lifting System – Synchronously Lift and Mechanically Hold



Typical Applications

- Bridge maintenance
- Lifting and lowering of heavy equipment
- Lifting, lowering and levelling of heavy structures and buildings
- De-propping/load transfer from temporary steel work.



Computer Controls

Enerpac Jack-up Systems provide precision control suitable for many demanding lifting/lowering applications. The comprehensive self-contained design features simple to use software.

- Automatic synchronization of multiple networked lift points.
- Overload and stroke alarms
- Emergency stop switch at jack-up units and controls.

▼ Enerpac has been awarded a contract by Burkhalter to extend the height of Enerpac's 2000 ton (500 ton per tower) jack-up system from 20m to 36m for future projects.



▼ A load is lifted in increments as barrels are slid into the system, lifted, and stacked; forming 'lifting towers'.



▼ Lifting barrels are stacked together to mechanically hold the load



Enerpac Jack-Up Systems



Enerpac Jack Up Systems

The jack up system is a custom developed multi-point lifting system. A typical system setup includes four jack up units positioned under each corner of a load.

Example: A four unit setup with JS250 has a lifting capacity of 1000 ton (250 ton per unit). The lifting frame of a jack up unit contains four hydraulic lifting cylinders, one in each corner, which lift the load using the stacked steel barrels.

A load is lifted in increments as barrels are slid into the system, lifted, and stacked; forming 'lifting towers'. A jack up system is operated and controlled by a computer control unit.

Each unit's lifting and lowering operations occur simultaneously; the computer control unit's synchronous technology maintains the balance of the load.

JS Series

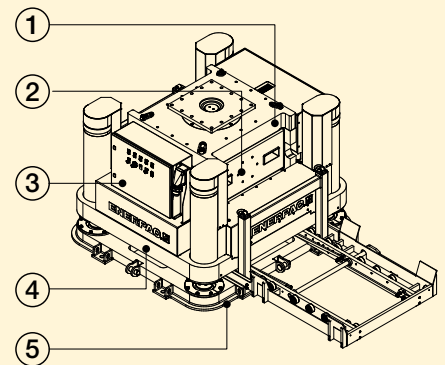
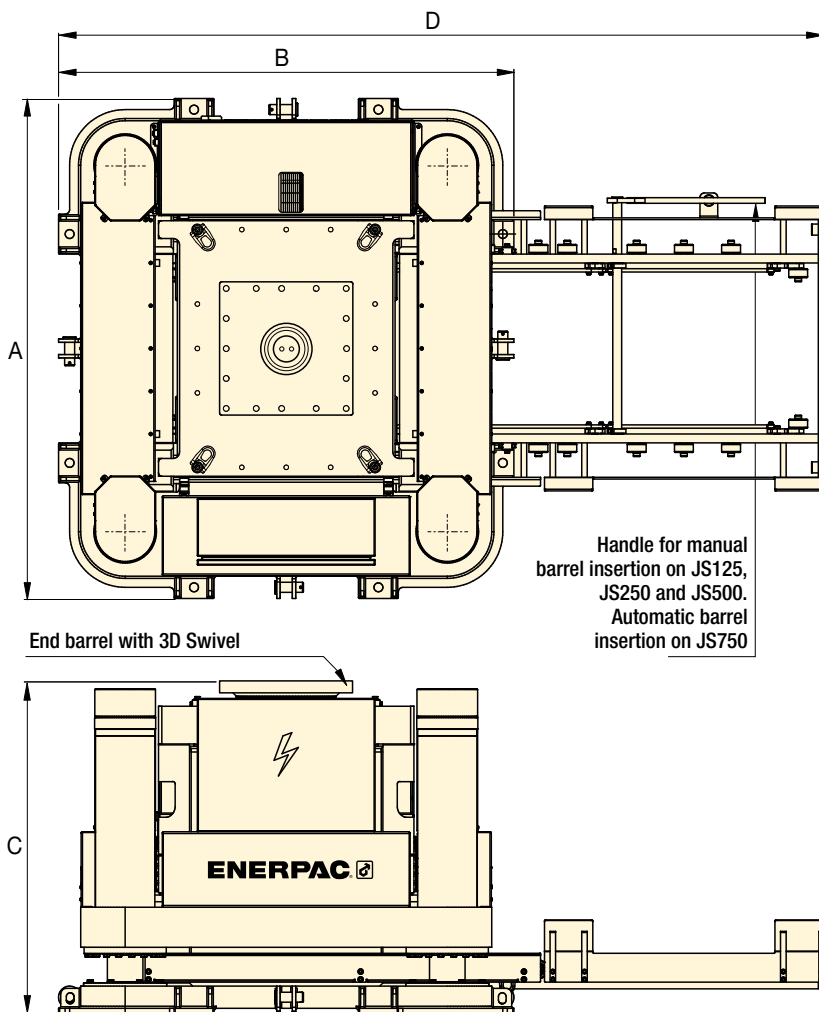


Capacity Per Lifting Tower:

125 - 750 ton

Lifting Height:

Up to 6 - 20 metres



Enerpac Jack Up Systems

- ① End Barrel
- ② Barrel
- ③ Electric Powerpack
- ④ Lifting Frame
- ⑤ Base Frame



Contact Enerpac!

Contact the Enerpac office nearest to you for advice and technical assistance in the layout of your ideal Lifting

System or visit us at: www.enerpac.com.

Or ask Enerpac for assistance:

enerpac.com/contact-us

Jack-Up Systems

Capacity per Tower ton (kN)	Model Number	Maximum Sideload	Base Frame Dimensions (mm)				Barrel Dimensions L x W x H (mm)	(kg) *
			A	B	C	D		
125 (1250)	JS-125	3% @ 6m	1200	1100	950	1850	600x600x250	2200
250 (2500)	JS-250	3,5% @ 10m	2250	2050	1475	3450	1150x1150x500	7500
500 (5000)	JS-500	4% @ 15m	2800	2300	1700	4500	1700x1700x700	13.000
750 (7500)	JS-750	5% @ 20m	3670	3250	2375	6100	2300x2300x1000	24.000

* Weight per jack up unit, excluding barrels.

▼ Enerpac jack-up system hoists 1500 ton span on Fore River Bridge.

