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

Incremental Lifting System – Synchronously Lift and Mechanically Hold

- **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.**

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

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.

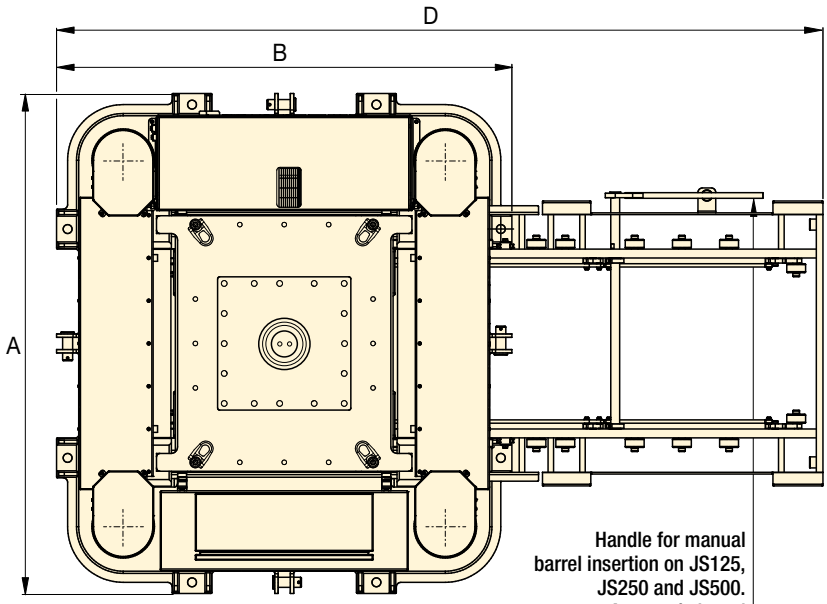
A load is lifted in increments as barrels are slid into the system, lifted, and stacked; forming 'lifting towers'. A jack up system is operated and controlled by a computer control unit.

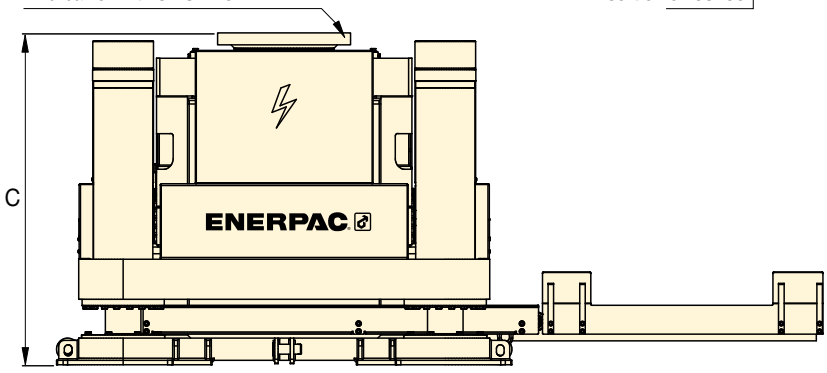
Each unit's lifting and lowering operations occur simultaneously; the computer control unit's synchronous technology maintains the balance of the load.

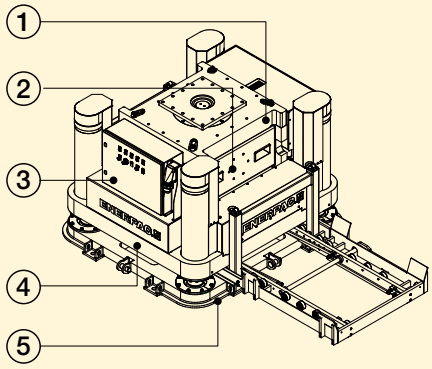
JS Series

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) A	B	C	D	Barrel Dimensions L x W x H (mm)	(kg) *
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.*