

▼ Shown: JS-250-Series Jack-Up System (one lifting tower shown)



## Incremental Lifting System – Synchronously Lift and Mechanically Hold



### Typical Applications

- Bridge construction and demolition
- Port crane lifting
- Shovel undocking
- Top side lifting
- Ship hull block installation



### Computer Controls

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

- Computer control for operating the Jack-Up system with automatic and manual lifting settings
- Automatic synchronization of multiple networked lift points
- Center of Gravity calculation
- Overload and stroke alarms
- Emergency stop switch at jack-up units and controls

- 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 four jack-up units but can be expanded to include more
- Lifting barrels are stacked together to mechanically hold the load
- Up to 5% side load capacity depending on capacity and lift height
- Computer controls for operating the Jack-Up System with automatic and manual lifting settings

▼ Lifting an oil and gas pipe module



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



▼ The steel barrels are stacked together to mechanically hold the load.



# JS-Series, 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, one 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

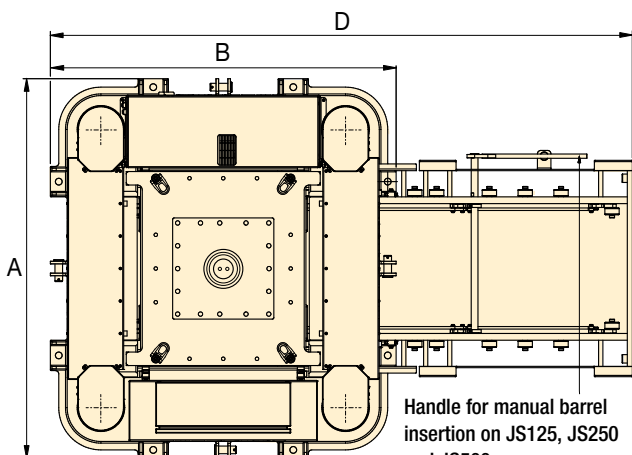


Capacity per Lifting Tower:

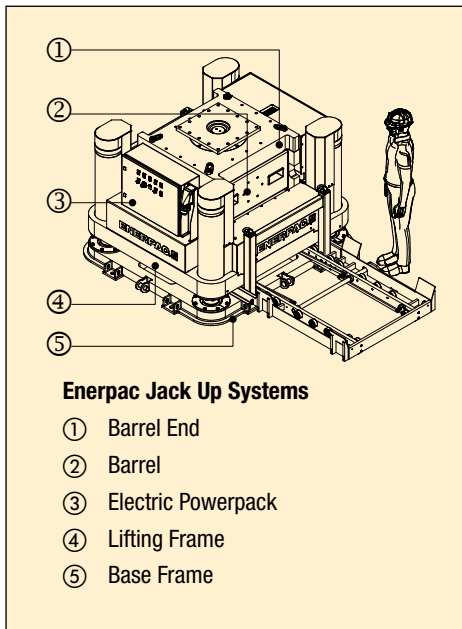
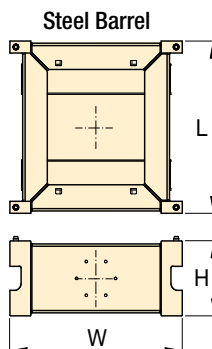
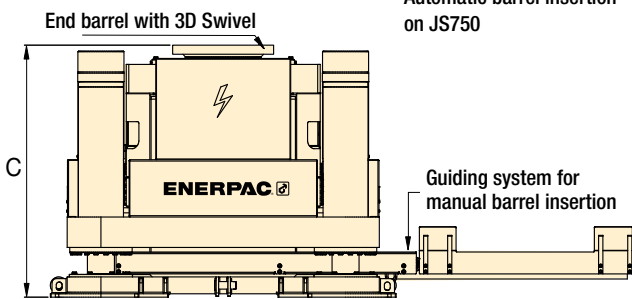
**140-840 tons**

Lifting Height:

**Up to 20-66 feet**



Handle for manual barrel insertion on JS125, JS250 and JS500. Automatic barrel insertion on JS750



### Enerpac Jack Up Systems

- ① Barrel End
- 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 solution or visit us on the web: [enerpac.com/contact-us](http://enerpac.com/contact-us).

▼ Bridge lifting with Enerpac Jack-Up System.



Cap. per Tower (ton)	Model Number	Maximum Sideload (ft)	Base Frame Dimensions (in)				Weight per Unit ** (lbs)	Barrel Dimensions (in)		
			A	B	C	D		L	W	H
140	JS-125	3% @ 19.6	47.24	43.31	37.40	72.84	4,850	23.62	23.62	9.84
280	JS-250	3% @ 32.8	88.58	80.70	58.07	135.82	16,535	45.27	45.27	19.69
560	JS-500	4% @ 49.2	110.23	90.55	66.92	177.16	28,660	66.93	66.93	27.56
840	JS-750	5% @ 65.6	144.48	127.95	93.50	240.16	52,911	90.55	90.55	39.37

\* Lifting speed approximately 6 barrels per hour.

\*\* Weight per jack-up unit, excluding end barrel or barrel sets.