

▼ From left to right: JS125, JS250, JS500, JS750 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 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

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 and lowering applications. The comprehensive self-contained design features simple to use software.

- Automatic synchronization of multiple networked lift points
- Center of Gravity calculation
- Overload and stroke alarms
- Emergency stop switch at Jack-Up units and controls

▼ Enerpac JS500 used in bridge construction and de-commissioning.



▼ Enerpac Jack-Up System hoists 1500-ton span on Fore River Bridge.



▼ Undecking an 1500-ton Electric Rope Shovel in a Copper Mine with a JS500 Jack-Up System for bearing inspection and maintenance.



JS-Series, Jack-Up Systems



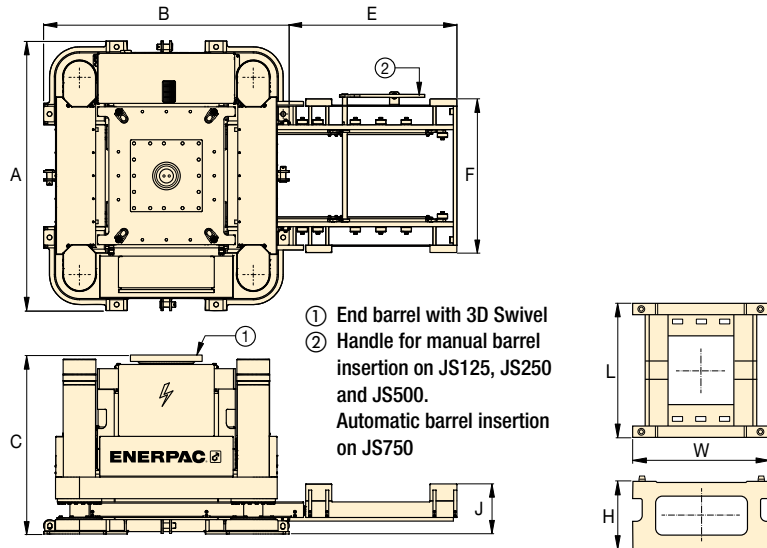
Enerpac Jack-Up Systems

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 1100 ton (275 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.



Jack-Up Systems (JS)

Steel Barrel (BLJS)

▼ Steel Barrel

For use with Jack-Up System	Barrel Set Model Number	Number of Barrels per Set	Barrel Dimensions (in)			Weight per Barrel (lbs)
			L	W	H	
JS125	BLJS125	4	23.62	23.62	11.81	231
JS250	BLJS250	4	45.28	45.28	19.69	792
JS500	BLJS500	4	66.93	66.93	27.56	2090
JS750	BLJS750	4	90.55	90.55	39.37	5170

▼ Jack-Up Systems

Capacity per Tower (ton)	Model Number	Maximum Sideload	Maximum Lifting Speed (ft/hr)	Base Frame Dimensions (in)			Barrel Loading System (in)			Electric Power Pack hp	Weight per Jack-Up Unit * (lbs)	Weight End Barrel (3D Swivel) (lbs)
				A	B	C	E	F	J			
138	JS125	3% @ 19.6 ft	16	47.25	43.31	37.60	27.56	27.56	8.07	12	5280	1254
275	JS250	3% @ 32.8 ft	13	88.58	80.71	58.07	52.81	52.81	16.46	20	16,500	5280
550	JS500	4% @ 49.2 ft	13	110.25	90.55	66.93	69.75	69.75	18.03	40	30,250	8470
825	JS750	5% @ 65.6 ft	13	144.50	127.95	93.50	98.25	98.25	29.29	40	52,800	19,800

* Weight per Jack-Up unit, excluding end barrel or barrel sets.

JS Series



Capacity per Lifting Tower:

138 - 825 tons

Lifting Height:

Up to 20 - 66 feet



Jack-up System Smart Box

The **Smart Box SBJS-V4** is Enerpac's proprietary control platform. It allows an operator to control up to 8 jack-up towers simultaneously with one **SBLT1** standard laptop.

- Single operator control from a central location provides safe and reliable operation
- Synchronous lift /lower and load control between the lifting positions
- Automatic lifting and lowering cycles
- Displays individual and accumulative stroke/load
- Simple graphical user interface



Adjustable Top Barrel

Includes double-acting lock nut cylinder with swivel saddle. Cylinder can be extended to contact the load. Provides

ability to adjust starting height of each leg, ensuring safe and stable lifting. Must be operated with separate pump.



Trolleys & Skid Tracks

Allows horizontal travel of jack-up systems.