

▼ SCJ50, Enerpac Self-Locking Cube Jack



- System is automatically mechanically locked after the lifting or lowering stroke
- Self-aligning steel cribbing blocks save time, improve side load, and eliminate the need for wooden cribbing materials
- Jobs are completed more efficiently due to simplified operation sequence with 50% less cycles than climbing jacks
- End block with adjustable swivel saddle allows fine adjustment during set-up: 50 mm screw extension
- Can be operated with Enerpac's 700 bar hydraulic power units
- Lloyds witness tested to 125% of maximum working load.

Incremental lifting system with automated mechanical locking



Why use Self-Locking Cube Jacks?

The Self-Locking Cube Jack is a safer, more efficient alternative to the jack-and-pack method with wooden cribbing. The Self-Locking Cube Jack is derived from the proven Enerpac Jack-up System.

The Cube Jack has a small footprint and is useable in confined spaces, providing heavy lift contractors with a stable lift up to 3 metres. The cribbing blocks are lightweight and can be handled manually.



Markets & Applications

Applications with a minimum starting height of 494 or 558 mm and requirement to lift up to

2067 or 3006 mm.

- Power Generation - transformer jacking
- Mining - equipment maintenance
- Heavy Transport - vehicle unloading
- Oil & Gas - module jacking
- Construction - bridge jacking
- Industrial Movers - lifting, lowering and levelling of heavy equipment.



◀ Completed in just over one hour, the 160 ton 50 x 7 meters steel racking system was lifted synchronously to a height of 2,2 meters using 16 Enerpac SCJ50 Cube Jacks powered by a single SFP-Series Split-Flow Pump. Lifting large racking systems can be hazardous, complex and difficult involving forklift trucks and chain blocks. Photo by courtesy of PHL Hydraulics Ireland Ltd.

▼ Forklift tabs on Cube Jacks for easy transportation and positioning with a pallet truck. See dimensions D and I to select the right pallet truck size.





Self-Locking Cube Jack

Easy-to-use, compact and portable jacking system that utilizes base lifting frames and self-aligning, lightweight steel cribbing blocks, instead of wooden cribbing materials.

Operation is simple:

1. Connect the Cube Jacks to the Enerpac Split-Flow Pump and select lifting mode on each base lifting frame.
2. Insert a cribbing block and actuate the Cube Jack until the cribbing block engages the lock mechanism.
3. Retract the jack and repeat the process until the desired lifting height is reached. For the lowering operation select lowering mode on each base lifting frame and reverse the process.

The Cube Jack End Block is equipped with an adjustable saddle for initial alignment with the load.

All controls except for the main directional valve, which is on the hydraulic power unit, are included on the Cube Jack.

Manual cribbing block insertion

Cribbing blocks are easily managed by hand and the Cube Jack includes integrated fork pockets and lifting rings for effortless positioning.

Synchronous Lifting & Lowering

Enerpac recommends using the SFP-Series Split-Flow Pumps with multiple outlets with equal oil flow. For lifting and lowering applications on multiple points, Split-Flow Pumps are a far better alternative than using separately operated pumps.

If synchronous lifting & lowering is required, the SFP-Series Pumps can be configured to accommodate stroke sensors and provide accurate computer controlled lifting function.

SCJ Series



Capacity Per Cube Jack:

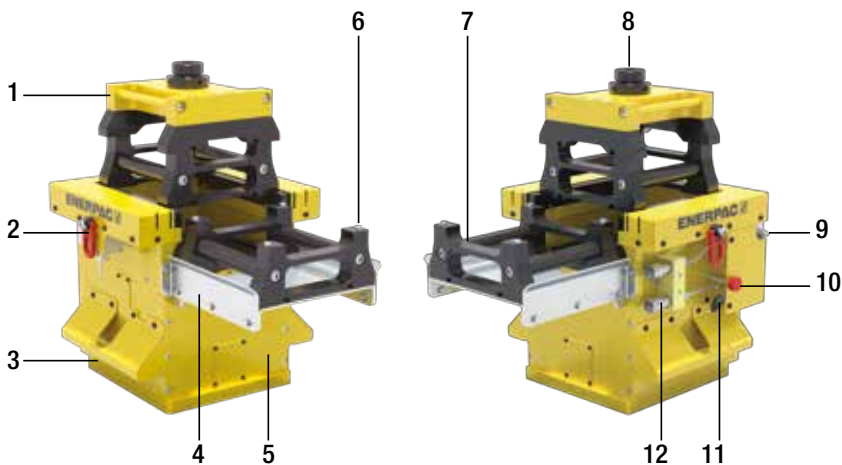
500 - 1000 kN

Maximum Lifting Height:

2067 - 3006 mm

Maximum Operating Pressure:

700 bar



Self-Locking Cube Jack

- | | |
|---------------------------------|---|
| 1 End block with tilting saddle | 7 Steel cribbing blocks |
| 2 Eye-bolts for hoisting | 8 Adjustable tilting saddle |
| 3 Forklift tabs | 9 Flow control |
| 4 Removable insert table | 10 Mode locking pin |
| 5 Cube Jack base frame | 11 Mode selector lever |
| 6 Locating pins | 12 Hydraulic connections
(Advance / Retract) |

▼ Cube Jack close-up of lifting and lowering valving mode and lock handle.



▼ Optional wire stroke sensor can provide stroke feedback to pump control.

