▼ 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% fewer cycles than climbing jacks
- End block with adjustable swivel saddle allows fine adjustment during set-up: 1.97-inch screw extension
- Can be operated with Enerpac's 10,000 psi hydraulic power units
- Maximum side load 1.5% at full extension
- Lloyds witness tested to 125% of maximum working load



■ Completed in just over one hour, the 160 ton 164 x 23 feet steel racking system was lifted synchronously to a height of 7.2 feet 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.

Incremental Lifting System With Automatic 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 Cube Jack is derived from the proven Enerpac Jack-up System. The Cube Jack has a small footprint and is usable in confined spaces, providing heavy lift contractors with a stable lift up to 118.3". The cribbing blocks are lightweight and can be handled manually.



Markets & Applications

Applications with a minimum starting height of 19 or 22 inch and requirement to lift up to 81 or 118 inch.

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

▼ 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 Jacks

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:

- Connect the Cube Jacks to the Enerpac Split-Flow Pump and select lifting mode on each base lifting frame.
- Insert a cribbing block and actuate the Cube Jack until the cribbing block engages the lock mechanism.
- 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.





Capacity Per Cube Jack:

56 - 110 ton

Maximum Lifting Height:

81.4 - 118.3 inches

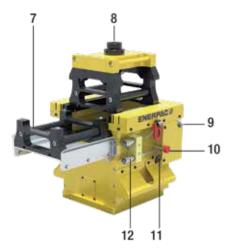
Maximum Operating Pressure:

10,000 psi



Self-Locking Cube Jack

- 1 End block with tilting saddle
- 2 Eye-bolts for hoisting
- 3 Forklift tabs
- 4 Removable insert table
- 5 Cube Jack base frame
- 6 Locating pins



- 7 Steel cribbing blocks
- 8 Adjustable tilting saddle
- 9 Flow control
- 10 Mode locking pin
- 11 Mode selector lever
- 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.



▼ SCJ100, Enerpac Self-Locking Cube Jack



• Included with Cube Jack are:

- Cube Jack Base Unit
- End Block with Swivel Saddle
- Multiple cribbing blocks: 11x on SCJ50 18x on SCJ100
- Transportation Frame
- Cribbing blocks can be manually inserted into Cube Jack by one person



 Heat exchanger maintenance job on the piping and condensers at a refinery using a combination of Enerpac Heavy Lifting Technology: SCJ-Series Cube Jacks, the ETT-Series Hydraulic Turntable and LH-Series Low-Height Skidding Systems.

Incremental Lifting System With Automatic Mechanical Locking



Transportation Frame

Provided with purchase of each Cube Jack.

Provides storage and transport for base unit, end block, and all

included cribbing blocks.



Lightweight Cribbing Blocks

Provided with purchase of each Cube Jack.

Spare cribbing blocks can be ordered separately.

Description	Model No.		
1x Cribbing Block	SCJ5B		
1x Cribbing Block	SCJ10B		



Split-Flow Pumps

Enerpac recommend to use the SFP-Series 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.

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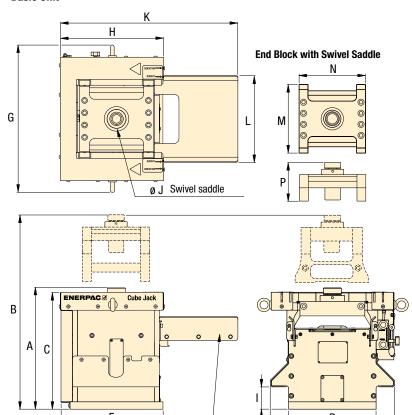
▼ Self-Locking Cube Jacks

Lifting Capacity per Base Unit	Lifting Stroke	Model Number	Maximum Sideload at Full Extension	Oil Ca per Ba (ii			
(ton)	(in)			(in³/min)	Advance	Retract	
56	6.14	SCJ50	1.5%	65	75	38	
110	6.14	SCJ100	1.5%	110	152	85	

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Self-Locking Cube Jacks and Accessories

Basic Unit



Removable insert table

SCJ Series



Capacity Per Cube Jack:

56 - 110 ton

Maximum Lifting Height:

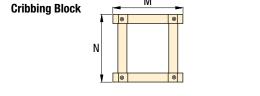
81.4 - 118.3 inches

Maximum Operating Pressure:

10,000 psi

▼ Typical set-up with 4 Self-Locking Cube Jacks and cribbing blocks in a Factory Acceptance Test (FAT). Enerpac recommends to power the Cube Jack using SFP-Series Split-Flow Pump.







Ε

Base l	Jnit	End Blo	ock	Cribbing	Block	Transport Frame *		
Model Number	Weight	Model Number			Weight	Model Number	Weight	
	(lbs)		(lbs)		(lbs)		(lbs)	
SCJ50	794	SCJ5EB	88	SCJ5B	35	SCJ5F	243	
SCJ100	1804	SCJ10EB	220	SCJ10B	51.7	SCJ10F	550	

		Dimensions (inches)												Model			
Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	F	•	Q	Number
														(min)	(max)		
19.4	81.4	18.7	14	19.9	17.4	21.9	16.9	3.6	4.92	28.6	13.8	11.8	12.2	6.9	8.9	4.9	SCJ50
22.0	118.3	20.7	19.9	25.8	25.0	30.4	23.5	4.0	6.69	41.2	19.8	17.7	18.1	7.4	9.4	4.9	SCJ100

^{*} Dimensions Transport Frame L x W x H: SCJ5F: 36.25 x 33.5 x 34 inches

SCJ10F: 63 x 47.25 x 59 inches