## SCJ-Series, Self-Locking Cube Jack

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.

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## 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 manualy.



#### Markets & Applications

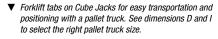
Applications with a minimum starting height of 494 or 558 mm and requirement to lift up to

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.





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## Self-Locking Cube Jack



#### 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.
- 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



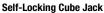
Capacity Per Cube Jack: 500 - 1000 kN

Maximum Lifting Height: 2067 - 3006 mm

Maximum Operating Pressure: **700 bar** 

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





- 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

- 9 10 12 11
- 7 Steel cribbing blocks
- 8 Adjustable tilting saddle
- 9 Flow control
- 10 Mode locking pin
- 11 Mode selector lever
- 12 Hydraulic connections (Advance / Retract)



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



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Cube Jack close-up of lifting and mode and look bondle

## SCJ-Series, Self-Locking Cube Jack

SCJ100, Enerpac Self-Locking Cube Jack



Included with the Cube Jack are:

- Cube Jack Basic Unit
- End Block with adjustable swivel saddle
- Multiple cribbing blocks: 11x on SCJ50
  - 18x on SCJ100
- Transportation Frame
- Cribbing blocks can be manually inserted into the 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 automated mechanical locking

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### Transport 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. Cribbing blocks can be manually inserted into the Cube Jack by one person. Spare cribbing blocks can be ordered separately.

Description	Model Nr.
1x Cribbing Block, 50 ton	SCJ5B
1x Cribbing Block, 100 ton	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.



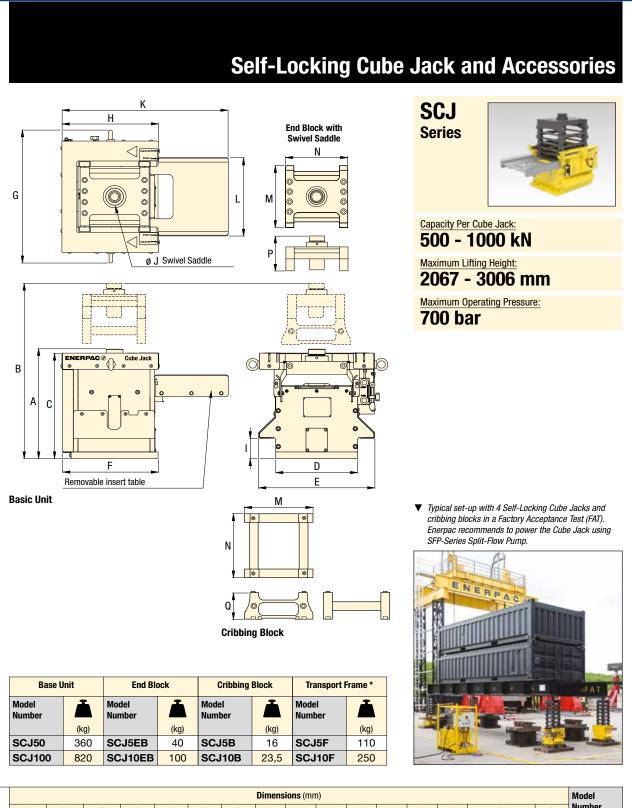
#### Self-Locking Cube Jacks

Lifting Capacity per Base Unit	Lifting Stroke	Model Number	Maximum Sideload at full extension	Maximum Pump Oil Flow Rate	Oil Ca per Ba (cr		
ton (kN)	(mm)			(l/min)	Advance	Retract	
<b>50</b> (500)	156	SCJ50	1,5%	0,9	1229	623	
<b>100</b> (1000)	156	SCJ100	1,5%	1,8	2500	1400	

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		Dimensions (mm)															Model		
	Α	В	С	D	Е	F	G	н	I	J	K	L	М	Ν	Р		Q	Number	
															Min.	Max.			
	494	2067	476	356	505	443	556	428	91	125	726	351	300	310	175	225	125	SCJ50	
	558	3006	526	506	655	636	772	598	101	170	1046	504	450	460	189	239	125	SCJ100	
-	* Dimens	ions Transp	oort Frame	LxWxH	SCF5	<b>F</b> : 920 x 8	50 x 860	mm										1	
					SCF1	<b>0F</b> : 1600 x	x 1200 x 1	500 mm											

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