

Enerpac Heavy Lifting Technology provides customers with tailored solutions, combining hydraulics, steel fabrication and electronic control technology. Global Leader providing best in class solutions for safe and precise positioning of heavy loads.

With more than 50 years supporting industrial markets, Enerpac has gained the unique and in-depth expertise that is respected by industrial professionals around the world. Across every continent, Enerpac's network of application engineers, authorized distributors and technical service centers can reach any location, and deliver innovative solutions, technical assistance and quality products.

Enerpac's complete line of standard and customized products and a unique systems approach offers the benefits of safety and efficiency to applications where high forces are required.

Whether constructing a signature bridge across a deep valley, lifting a national landmark for seismic retrofit or simultaneously testing hundreds of foundation pilings to support a new building, Enerpac will supply the hydraulic solutions to get the job done safely and efficiently.



Precision lift and position of heavy loads



Synchronous superlift and launch



Bridge lifting and launching



Jacking with high capacity precision control



Synchronous hoisting and load positioning



Incremental bridge lifting










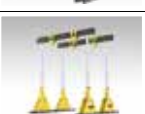

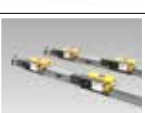





Transportation



Special high tonnage cylinders for the Pioneering Spirit lifting beams

Heavy Lifting Technology - Section Overview

Capacity ton (kN)	Type and Capabilities	Series	Page
Flow: 0,27 - 2,10 l/min Power: 0,75 - 15 kW	Split-Flow Hydraulic Pumps Multiple outlets with equal flow for lifting and lowering	SFP	 344 ▶
Flow: 2,1 - 8,0 l/min Power: 3,0 - 7,5 - 15 kW	Synchronous Lifting System, Pump-per-Point Provides industry leading speed and accuracy	EVOP	 348 ▶
Flow: 0,75 - 4,80 l/min Power: 3,5 - 7,5 kW	Synchronous Lifting Systems, standard pumps The multi-functional synchronous lifting system	EVO	 350 ▶
50 - 100 (500 - 1000)	Self-Locking Cube Jack Incremental lifting, automated mechanical locking	SCJ	 352 ▶
50 - 200 (498 - 1995)	Climbing Jacks A simple solution to incremental lifting	BLS	 356 ▶
250 - 500 (2500 - 5000)	Jack-Up Systems Synchronously lift, mechanically hold, incremental lifting	JS	 358 ▶
15 - 1250 (147 - 12.250)	Heavy Lifting Strand Jacks High capacity precision control	HSL	 360 ▶
55 - 110 (550 - 1100)	Synchronous Hoisting Systems - SyncHoist Precision positioning jacks	SHC SHP	 362 ▶
40 (400)	Mini-Lift Hydraulic Gantries Portable design with precision control	ML	 364 ▶
1000 - 1100 (100 - 10.484)	Telescopic Hydraulic Gantries Precision lift and position of heavy loads	SL SBL	 366 ▶
100 - 250 (860 - 2500)	Skidding Systems The ideal jack and slide solution	LH HSK	 368 ▶ 372 ▶
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200 - 400 (2000 - 4000)	Hydraulic Turntables Controlled rotation of heavy loads	ETT	 376 ▶
60 (600) Speed: 3 - 1,5 km/hr	Self-Propelled Modular Transporters Hydraulic strength in a linear drive transport system	SPMT	 377 ▶
–	Custom Heavy Lifting Solutions Solution Consultations, On-Demand Support	–	 378 ▶ 380 ▶

▼ SFP414SW and SFP403SW (Gauges and retract valves not shown)



- 2, 4, 6 or 8 split-flow outlets
- Individual or simultaneously operation of valves, with advance/hold/retract function
- Joystick (manual) controlled or pendant (solenoid) controlled valves
- Flow per outlet ranging from 0,27 to 2,10 l/min at 700 bar
- For double- and single-acting cylinders
- Adjustable pressure relief valve per circuit
- Reservoir: 20, 40 or 150 litres
- All models include pressure gauges.

▼ Step-by-step stage lifting an old windmill using double-acting RR506 cylinders powered by a split-flow pump.



Multiple Outlets with Equal Flow for Lifting and Lowering



Typical Split-Flow Pump Applications

For lifting and lowering applications on multiple points, Split-Flow Pumps are a far better alternative than using independently operated pumps. Where synchronization of maximum 4% is acceptable, Split-Flow Pumps are a safe and economical solution.

The SFP-Series pumps feature both single and synchronized multiple outlet control either through joystick or pendant operation.

Application examples:

- Bridge deck lifting for bearing maintenance
- Stage lifting in construction and shipbuilding
- Skidding to move structures and buildings
- Levelling of constructions such as wind turbines.



Remote Control Pendant

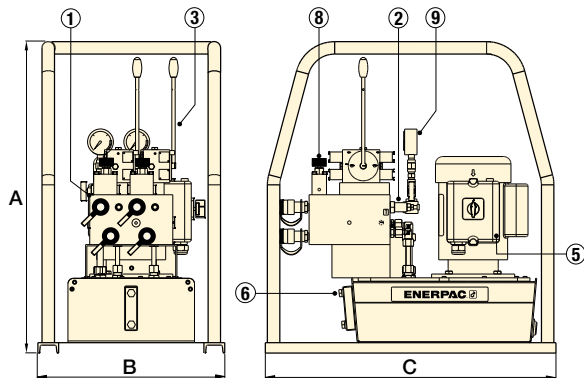
Split-Flow pumps with solenoid valves include a remote pendant with selector switches for each individual outlet, allowing single or multiple cylinder operation.



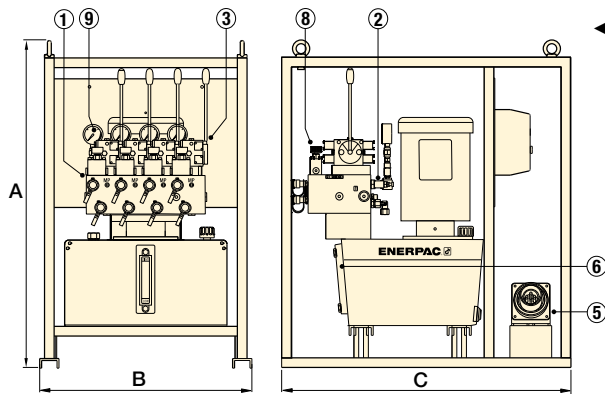
High Pressure Hoses

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac hydraulic hoses.

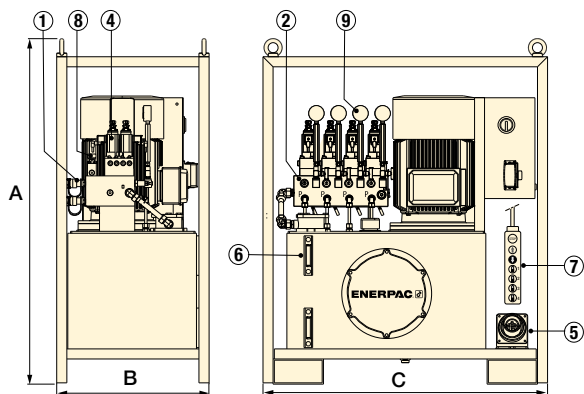
Split-Flow Hydraulic Pumps



◀ SFP-Series with 20 litres reservoir (shown with 2 split-flow outlets)



◀ SFP-Series with 40 litres reservoir (shown with 4 split-flow outlets)



◀ SFP-Series with 150 litres reservoir (shown with 4 split-flow outlets)

SFP Series



Reservoir Capacity:

20 - 40 - 150 litres

Split-Flow Outlets:

2, 4, 6 and 8 outlets

Flow at Rated Pressure:

0,27 - 2,10 l/min

Motor Size:

0,75 - 15 kW

Maximum Operating Pressure:

700 bar




Lifting Cylinders

For a complete line of Enerpac cylinders, see the Cylinder and Lifting Products in our catalogue.

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- ① Manifold with split-flow outlets and CR400 couplers
- ② Adjustable pressure relief valve per circuit
- ③ Manual 4/3 control valves with joysticks
- ④ Solenoid 4/3 control valves (24 VDC)
- ⑤ Power socket
- ⑥ Oil sight gauge(s)
- ⑦ Remote control pendant with 5 m cord
- ⑧ Return flow control valve in each circuit
- ⑨ Hydraulic pressure gauge in each circuit

Number of Split-Flow Outlets	Usable Oil Capacity (litres)	Oil Flow per Outlet @ 700 bar (l/min)	Pump Model Number 4/3 Valve Operation Advance/Hold/Retract		Motor Size 400 V, 3ph 50 Hz (kW)	Dimensions (mm)			 (kg)
			Manual (Joystick)	24 V Solenoid (Pendant)		A	B	C	
2	20	0,27	SFP202MW	—	0,75	748	450	700	115
4	40	0,30	SFP403MW	SFP403SW	2,2	1016	640	970	257
	135	0,90	SFP409MW	SFP409SW	5,5	1356	605	1160	475
	135	1,40	SFP414MW	SFP414SW	7,5	1356	605	1160	490
	135	2,10	SFP421MW	SFP421SW	10	1356	605	1160	596
6	135	1,30	—	SFP613SW	10	1356	805	1200	562
8	40	0,30	—	SFP803SW	5,5	1163	830	1113	450
	135	1,30	—	SFP813SW	15	1356	805	1200	620



Motor Voltage

Motor voltage is specified by the last letter in the model number.

Other motor voltages are available from Enerpac. Change "W" in the model as follows for other options:

J = 460-480V, 3 ph, 50-60 Hz

G = 208-240V, 3 ph, 50-60 Hz

▼ SFP-Series Split-Flow Pump Kit Components



Connecting Split-Flow Pumps for more lift points and greater accuracy

- Control multiple Split-Flow Pumps with one control unit
- Pumps can be closer to the lifting points, requiring shorter hoses and increasing accuracy
- Synchronize all lift points to within 1,0 mm (0.04 inch)
- Network control boxes expand the number of lifting points by combining up to four split-flow pumps together, simplifying lifting operations by using a single operator station
- Plug and play synchronous lift upgrade kits limit initial investment and provide everyday flexibility to tailor the controls to the applications needs.



Split-Flow Pumps Kits

SFP-Series kits are customized from standard components to meet the needs of your unique applications. On the next page is the guide to help you choose the right components to upgrade or expand your equipment based on your application needs.

Contact your regional Enerpac representative / territory manager for support with your specific project.

Split-Flow Pump Network Kits

Split-Flow Pump Network Kits connect multiple Split-Flow Pumps under one control system.

Split-Flow Pump Synchro Kits

Split-Flow Pump Synchro Kits connect and electronically synchronize each lift point of a single Split-Flow Pump or multiple Split-Flow Pumps under one control system.



Junction Box

SFPKSS4 and **SFPKSS8** junction boxes consolidate the signals from pressure and stroke sensors, allowing the master control box to synchronize the lifting operation.



SFPKMN, Master Control Box

All SFP-Series Synchro Kits include a master control box to allow the operator to easily monitor and control a multi-point synchronized lift and adjust individual lift points as needed. All master control boxes feature an industrial grade touch screen and a user-friendly interface.



EVO-SC, Stroke Sensor Cables

Can be connected together for additional length. Ordered separately, requires one for each stroke sensor.

Model Number	Length (m)	Model Number	Length (m)
EVO-SC-6	6	EVO-SC-25	25



EVO-WSS, Wire Stroke Sensors

Provides stroke feedback to controls. Includes magnets for mounting. Ordered separately, requires one sensor for each

lifting point. Available in measuring range from 375 to 1000 mm.

Model Number	Range (mm)	Model Number	Range (mm)
EVO-WSS-375	375	EVO-WSS-1000	1000
EVO-WSS-500	500	—	—



Communication Cables

EVO-COMM-Series communication cables transfer information about the synchronized lift operation

from the master control panel to each of the connected split-flow pumps.

Model Number	Length (m)	Model Number	Length (m)
EVO-COMM-25	25	EVO-COMM-75	75
EVO-COMM-50	50	EVO-COMM-100	100

Split-Flow Pump Network Kits



Upgrading Split-Flow Pumps

To network multiple SFP-pumps together with standard function see drawing and table ①.

To upgrade a single SFP-pump to synchronous lift capability, see drawing and table ②.

To upgrade and network multiple SFP-pumps together with synchronous lift capabilities, see drawing and table ③.

SFP Series



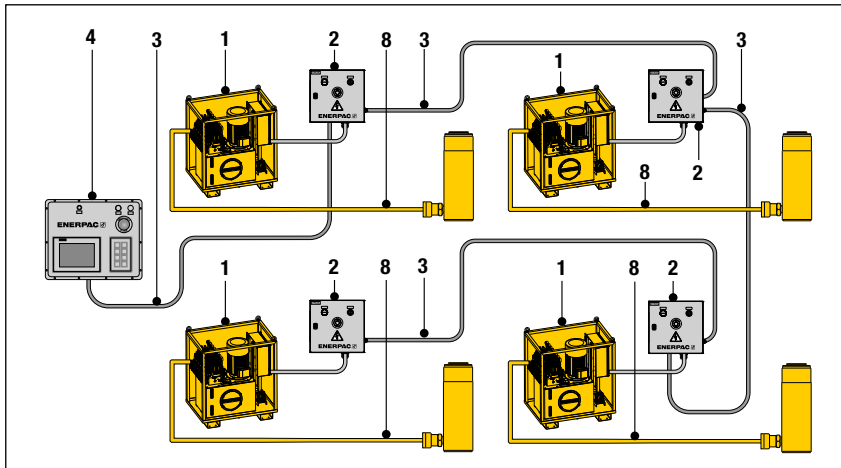
Multiple Pumps in Network System:

1 - 4 pumps

Maximum Lifting Points:

32x cylinders

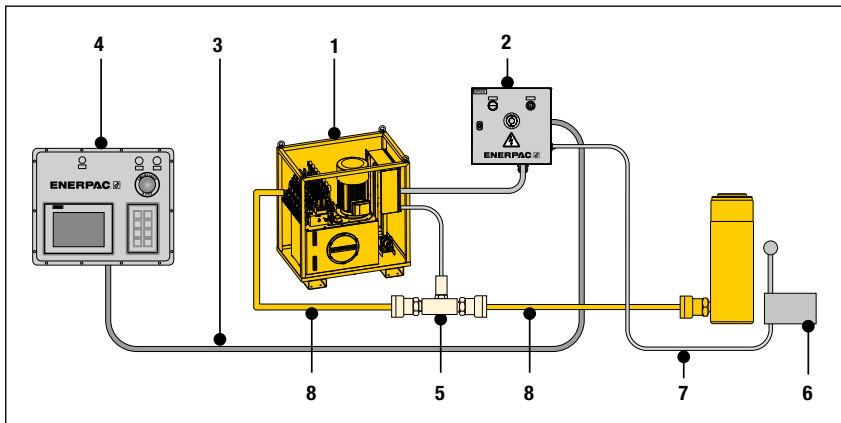
① Networked SFP-Pumps in Standard Operation



① Networked SFP-Pumps in Standard Operation

Nr.	Qty	Model Nr. & Description
1	4x	SFP...SW Pumps with solenoid valves
2	4x	SFPKSN Junction Box, 1x per pump
3	4x	SFPCOMM-25 Communication Cable, 1x per pump
4	1x	SFPKMN Master Control Box
8		HC-700-Series, Hydraulic Hoses

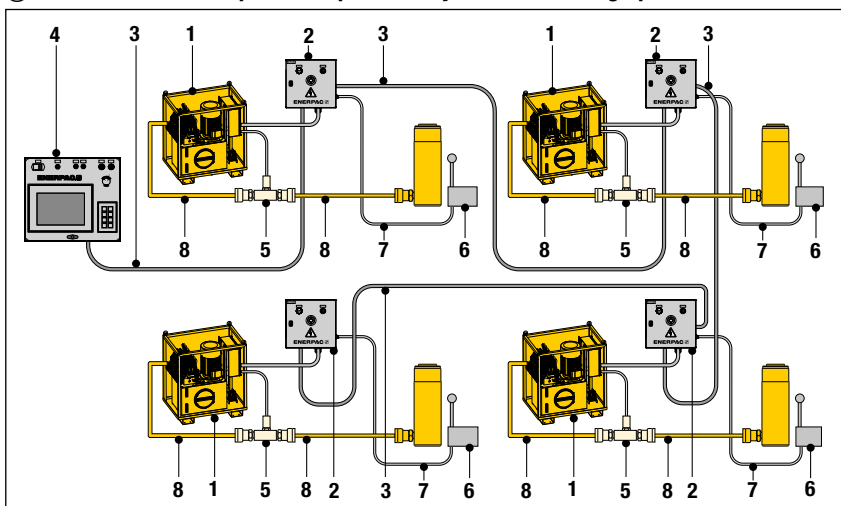
② Single SFP-Pump in Multiple-Point Synchronous Lifting Operation



② Single SFP-Pump in Multiple-Point Synchronous Lifting Operation

Nr.	Qty	Model Nr. & Description
1	1x	SFP...SW Pump with solenoid valves
2	1x	SFPKSS4 Junction Box for 2-4 lifting points or SFPKSS8 for 6-8 lifting points
3	1x	SFPCOMM-25 Communication Cables
4	1x	SFPSSC Single Slave Control Box
5		SFPKPT Pressure Transducer Kit (1x per cylinder A-port)
6		EVO-WSS-XXX Stroke Sensor, 1x per cylinder
7		EVO-SC-25 Stroke Sensor Cable, 1x per cylinder
8		HC-700-Series, Hydraulic Hoses

③ Networked SFP-Pumps in Multiple-Point Synchronous Lifting Operation



③ Networked SFP-Pumps in Multiple-Point Synchronous Lifting Operation

Nr.	Qty	Model Nr. & Description
1	4x	SFP...SW Pump with solenoid valves
2	4x	SFPKSS4 Junction Box, 1x per pump, for 2-4 lifting points or SFPKSS8 Junction Box for 6-8 lifting points
3	4x	EVO-COMM-XXX Communication Cable, 1x per pump
4	1x	EVOMASTER Master Control Box
5		SFPKPT Pressure Transducer Kit, 1x per cylinder A-port)
6		EVO-WSS-XXX Stroke Sensor, 1x per cylinder
7		EVO-SC-25 Stroke Sensor Cable, 1x per cylinder
8		HC-700-Series, Hydraulic Hoses

▼ EVOP140150W Hydraulic Power Unit



- Lifting system controls multiple lifting points
- Each EVOP-Series pump (Pump-per-Point) controls only one lifting point, providing the best combination of high flow rate and exceptional accuracy
 - Ideal for high-tonnage cylinders, 300 to 1000-ton capacities
 - Increased lifting speeds for long stroke cylinders and repetitive operations such as with climbing jacks
 - Up to 8x lifting speed compared to similar methods
- Synchronization controlled via a variable frequency drive (VFD) on the motor, enables smoother operation and tight accuracy at high lifting speeds
- Standard control interface provides easy set-up and operation/selection of multiple lifting options
- Accuracy of up to 1,0 mm (0.040 inch) between leading and lagging cylinders
- Built-in warning and stop alarms for optimal safety.



◀ A 1200-ton electric mining shovel being separated using custom 500-ton RR-Series cylinders and a pump per point synchronous lift system.

Raising the speed limit on synchronized lifting operations



CLNC12 Network Controller

Easily monitor and control a multipoint synchronized lift. All network control boxes feature an industrial grade touch screen

and a user-friendly interface.

Same controller can be used to operate either SFP-Series Split-Flow Pumps or multifunctional EVO-Series lifting systems.



EVO-SC-25, Stroke Sensor Cable, 25 metres

Can be connected together for additional length. Ordered separately, requires one for each

stroke sensor.



EVO-WSS, Wire Stroke Sensors

Provides stroke feedback to controls. Includes magnets for mounting. Ordered separately, requires one sensor for each

lifting point. Available in measuring range from 100 to 1250 mm.

Model Number	Range (mm)	Model Number	Range (mm)
EVO-WSS-100	100	EVO-WSS-750	750
EVO-WSS-125	125	EVO-WSS-1000	1000
EVO-WSS-375	375	EVO-WSS-1250	1250
EVO-WSS-500	500	-	-



Communication Cables

EVO-COMM-Series communication cables transfer information about the synchronized lift operation

from the network control panel to each of the connected hydraulic pumps.

Model Number	Length (m)	Model Number	Length (m)
EVO-COMM-25	25	EVO-COMM-75	75
EVO-COMM-50	50	EVO-COMM-100	100

Synchronous Lift System, Pump-per-Point



EVOP-Series Pumps

The Enerpac EVOP-Series (Pump-per-Point) synchronous lift system provides industry leading speed and accuracy for 700 bar lifting operations.

Safety: Stroke synchronization ensures level lift regardless of load distribution.

Lifting Speed: Improve lifting speed up to 8 times over traditional multi-point lifting systems. Save time on long stroke lifts and repetitive operations

Accuracy: Variable speed motor control allows accuracy down to 1,0 mm (0.040") between cylinders and smooth operation without the start and stop associated with opening and closing hydraulic valves.

EVOP Series



Lifting Points per Pump:

1x cylinder/pump

Reservoir Capacity:

40 - 150 litres

Flow at Rated Pressure:

2,1 - 8,0 l/min

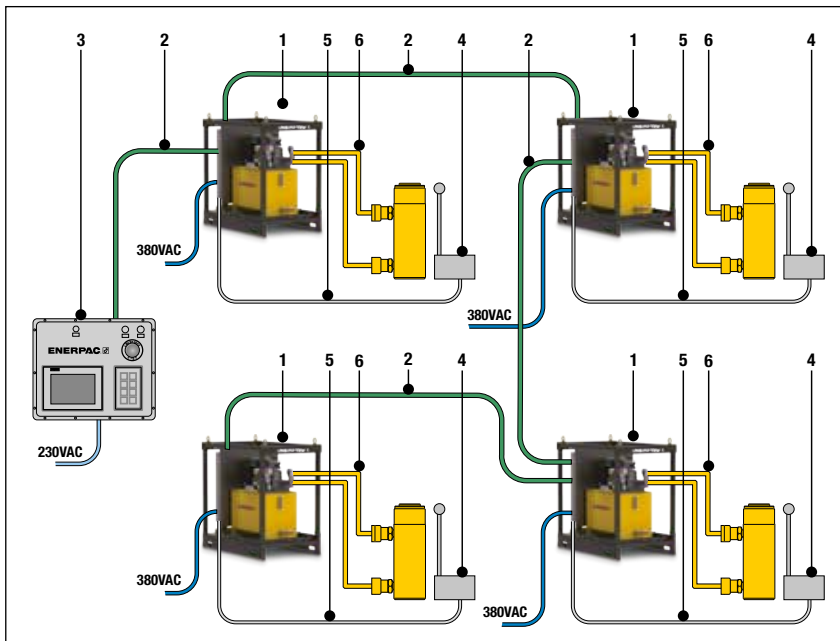
Motor Size:

3,0 - 7,5 - 15 kW

Maximum Operating Pressure:

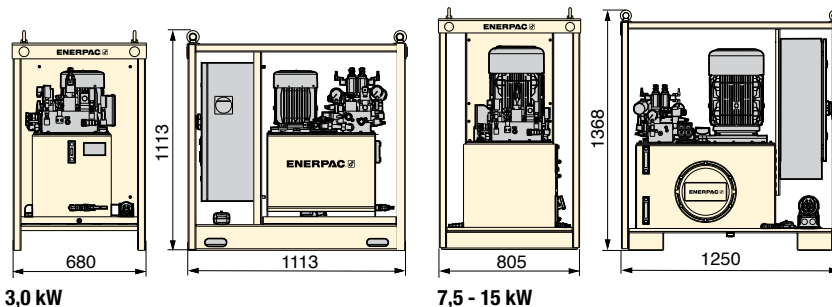
700 bar

Networked EVOP-Pumps in Multipoint Synchronous Lifting Set-Up



Networked EVOP-Pumps in Multipoint Synchronous Lifting Set-Up (with double-acting cylinders)

Nr.	Model Nr. & Description	Quantity
1	EVOP-Series Pump with Solenoid Valves	1x/cylinder
2	EVO-COMM-XXX Communication Cable	1x/pump
3	CLNC12 Network Control Box	1x/system
4	EVO-WSS-XXX Stroke Sensor	1x/cylinder
5	EVO-SC-25 Stroke Sensor Cable	1x/cylinder
6	HC700-Series Hydraulic Hoses	2x/cylinder



3,0 kW

7,5 - 15 kW

EVOP-Series (Pump-per-Point)

Lifting Points per Pump	Reservoir Capacity	Oil Flow ¹⁾ (l/min)		Model Number ²⁾ 380 - 415 V, 3 phase, 50-60 Hz	Motor Size	(kg)
		(< 120 bar)	(> 120 bar)			
1x (cylinder)	40 (litres)	11,1	2,1	EVOP12140W	3,0 (kW)	310
1x	150	13,0	4,0	EVOP140150W	7,5	490
1x	150	17,0	8,0	EVOP180150W	15	506

¹⁾ First stage high oil flow only available in manual control mode.

²⁾ For 440-480 Volt - 3ph - 60 Hz change suffix "W" into "J". Example: EVOP140150J.



High-Tonnage Cylinders

The Enerpac High-Tonnage Cylinders are particularly suitable for (multipoint) lifting applications.

Double-acting cylinders are recommended to take advantage of speed and time saving with EVOP-Series pumps.

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BLS-Series Climbing Jacks

Climbing Jacks overcome the usual limitation of lift height imposed by the jack's plunger stroke length. Large objects, such as oil tanks, can be lifted, held and lowered for maintenance without sending for a crane.

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▼ EVO 841460W



- Modular lifting pumps to control 4, 8 or 12 lifting points
- Can be connected to single- or double-acting cylinders with the same or different lifting capacities
- PLC-controlled system with integrated 700 bar hydraulic power unit and 250 litres reservoir
- Network capability to link up to 4 EVO-units (HPUs) to a separate network controller via wireless control
- Intuitive user interface providing easy set up, control and navigation
- Data storage and recording capabilities
- Variable frequency drive motor (VFDM) and PLC for precise synchronization and oil flow control.



The multi-functional synchronous lifting systems



EVO-System Work Modes

The application possibilities are infinite with the standard EVO-System, powering interlinked hydraulic cylinders – single or double-acting, push or pull, stage lift, hollow plunger or lock nut cylinders. The EVO-System has 9 work modes. The operator can navigate to any of these menus:

1. Manual
2. Pre-Load
3. Automatic
4. Retract Fast
5. Depressurize
6. Tilting
7. Stage Lift
8. Weighing *
9. Center of Gravity determination *

* Available in the **EVO-W-models**.



Typical Synchronous Lifting Applications

- Bridge lifting and repositioning
- Bridge launching
- Bridge maintenance
- Incremental launching and box jacking
- Lifting and lowering of heavy equipment
- Lifting, lowering, levelling and weighing of heavy structures and buildings
- Structural and pile testing
- Lifting and weighing of oil platforms
- Foundation levelling of onshore and offshore wind turbines
- De-propping/load transfer from temporary steel work
- Foundation shoring.

◀ The superlifting and launch of a 43.000-ton floating oil production system in Malaysia for the Gumusut-Kakap offshore field has set high benchmarks for safety through its use of sophisticated EVO-Series synchronous hydraulics to lift, balance, weigh and smoothly launch massive resource structures.



Benefits of the EVO-Series System

Precise control of multiple lift points

- Comprehensive understanding and management of a lifting operation from a central control system improves safety and operational productivity.
- Programmable synchronized lifting.
- Automatic stop at pre-set cylinder stroke or load limit.

Safe and efficient movement of loads

- System secured with warning and stop features to realize optimal safety.

High accuracy

- Variable frequency drive (VDFM) and PLC for precise synchronization and control of oil flow, stroke and speed.
- Depending the cylinder capacities used, an accuracy of 1,0 mm between lifting points is achieved.

Ease of operation

- User friendly interface: visual screens, icons, symbols and color coding.
- A single operator controls the entire operation.

Monitoring and Data Recording

- Displays data of the operation.
- Data recording at user-defined intervals.
- Data storage and read-out for reporting.

Network capability

- Ethernet IP protocol for communication between hydraulic power units, allow easy "plug and play".

EVO-W Weighing System

Weighing applications with 1% accuracy

- Includes calibrated sensors and auto-calibration of external load cells.
- Center of gravity determination functionality.
- Parameters for "waiting time for stabilization" and "number of cycles".

Global standardized system

- Enerpac global coverage ensures local support.

EVO Series



Number of Lifting Points:

4 - 8 -12 (up to 48)

Reservoir Capacity:

250 litres

Flow at Rated Pressure:

0,75 - 4,80 l/min

Motor Size:

3,50 - 7,50 kW

Maximum Operating Pressure:

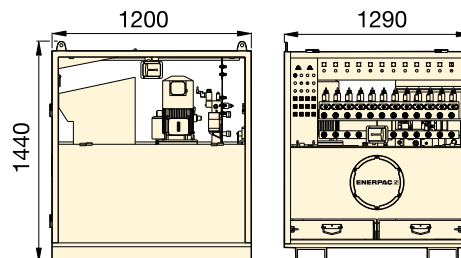
700 bar



Stroke Sensors and Cables

Optional accessories required for each lifting point and stroke sensor.

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CLNC12 Network Controller

Required to link up to 4 standard EVO-pumps together to achieve a maximum of 48 lifting points. Contact Enerpac for more information.

EVO-Series (Standard)

Lifting Points	Variable Oil Flow at 50 Hz ¹⁾ (l/min)		Model Number ²⁾ 380-415 V, 3ph, 50-60Hz	Usable Oil Capacity (litres)	Motor Size (kW)	Motor Speed ⁴⁾	(kg)
	(< 125 bar)	(> 125 bar)					
4	4,0 - 13,3	0,75 - 2,51	EVO421380	250	3,5	VFDM	910
4	4,0 - 13,3	0,75 - 2,51	EVO421380 W ³⁾	250	3,5	VFDM	910
4	4,7 - 15,6	1,44 - 4,80	EVO440380	250	7,5	VFDM	1005
4	4,7 - 15,6	1,44 - 4,80	EVO440380 W ³⁾	250	7,5	VFDM	1005
8	4,0 - 13,3	0,75 - 2,51	EVO821380	250	3,5	VFDM	910
8	4,0 - 13,3	0,75 - 2,51	EVO821380 W ³⁾	250	3,5	VFDM	910
8	4,7 - 15,6	1,44 - 4,80	EVO840380	250	7,5	VFDM	910
8	4,7 - 15,6	1,44 - 4,80	EVO840380 W ³⁾	250	7,5	VFDM	910
12	4,0 - 13,3	0,75 - 2,51	EVO1221380	250	3,5	VFDM	920
12	4,0 - 13,3	0,75 - 2,51	EVO1221380 W ³⁾	250	3,5	VFDM	920
12	4,7 - 15,6	1,44 - 4,80	EVO1240380	250	7,5	VFDM	1025
12	4,7 - 15,6	1,44 - 4,80	EVO1240380 W ³⁾	250	7,5	VFDM	1025

¹⁾ Oil flow will be approximately 6/5 of these values at 60 Hz.

²⁾ For 460-480 VAC, 3 phase, 50-60 Hz change 380 in model number into 460. Example **EVO421460**.

³⁾ Model numbers with suffix **W** are pumps for weighing systems. ⁴⁾ VFDM = Variable Frequency Drive 15-50 Hz.

▼ Precision levelling caisson pier box: 3 EVO-Systems connected with 32 jacks lowered the 1100 ton bascule pier box.



▼ 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



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:

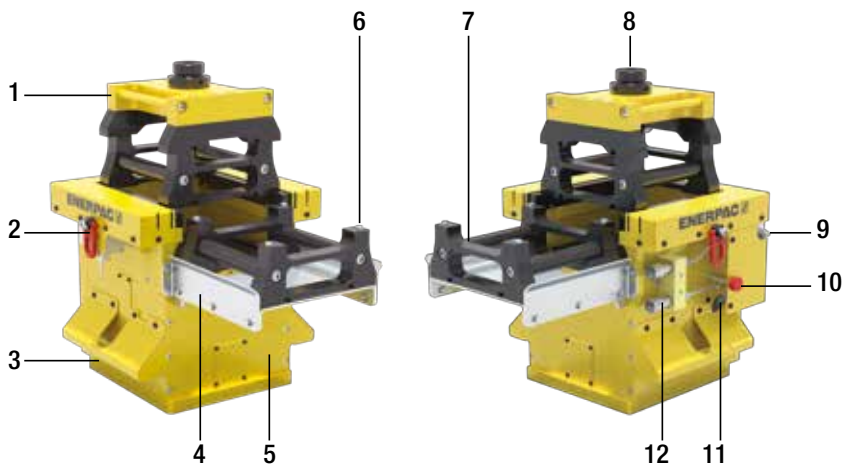
500 - 1000 kN

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.



▼ 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



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.

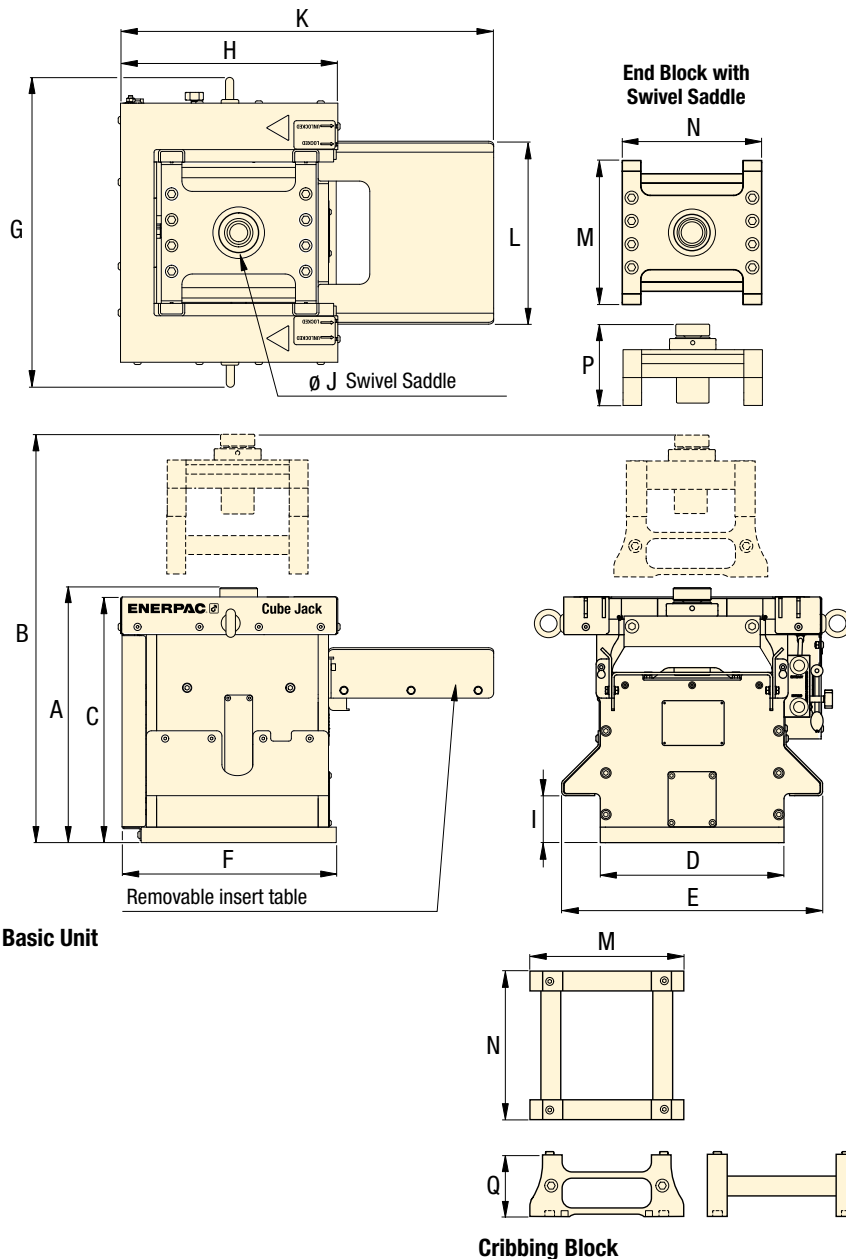
For lifting and lowering applications on multiple points, Split-Flow Pumps are a far better alternative than using separately operated pumps.

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Self-Locking Cube Jacks

Lifting Capacity per Base Unit ton (kN)	Lifting Stroke (mm)	Model Number	Maximum Sideload at full extension	Maximum Pump Oil Flow Rate (l/min)	Oil Capacity per Base Unit (cm ³)	
					Advance	Retract
50 (500)	156	SCJ50	1,5%	0,9	1229	623
100 (1000)	156	SCJ100	1,5%	1,8	2500	1400

Self-Locking Cube Jack and Accessories



SCJ Series



Capacity Per Cube Jack:

500 - 1000 kN

Maximum Lifting Height:





2067 - 3006 mm

Maximum Operating Pressure:

700 bar

▼ 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.



Base Unit		End Block		Cribbing Block		Transport Frame *	
Model Number	 (kg)	Model Number	 (kg)	Model Number	 (kg)	Model Number	 (kg)
SCJ50	360	SCJ5EB	40	SCJ5B	16	SCJ5F	110
SCJ100	820	SCJ10EB	100	SCJ10B	23,5	SCJ10F	250

Dimensions (mm)																	Model Number
A	B	C	D	E	F	G	H	I	J	K	L	M	N	P		Q	
														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

* Dimensions Transport Frame L x W x H: **SCJ5F:** 920 x 850 x 860 mm
SCJ10F: 1600 x 1200 x 1500 mm

▼ BLS1006



- Climbing jacks include integral tilt saddles with maximum tilt angles up to 5 degree
- Large base plate with anti-rotation rod for stability and safety
- Built-in safety valve prevents accidental over-pressurization
- Ideal in combination with the stage lift work mode of the EVO-Series synchronous lifting system
- Baked enamel finish for increased corrosion resistance
- CR400 couplers included on all models.

▼ *Synchronous Stage Lifting: 48 double-acting jacks (25 and 50 ton) are networked in to a 16 points synchronous system to lift this 50 metres long, 1000 ton building up to a height of 2,5 metres to construct a new floor level.*



A Simple Solution to Incremental Lifting



Lifting Height

Climbing Jacks overcome the usual limitation of lifting height imposed by the cylinder's plunger stroke length. Large objects, such as oil tanks, can be lifted, held and lowered for maintenance without sending for a crane.



Split-Flow Pumps

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.

Page: **344**



Synchronous Lifting System

The standard EVO-Series System is ideal for stage lifting, powering interlinked hydraulic cylinders.

The EVO-system has 9 work modes including the stage lift work mode.

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Jack-Up Systems

For incremental lifting with higher lifting capacities and up to 20 m lifting height, see our JS-Series Jack-Up Systems.

Page: **358**

Cylinder Capacity	Stroke	Model Number	Max. Cylinder Capacity (kN)	
			Push	Pull
ton	(mm)			
50	150	BLS506	498	103
95	161	BLS1006	933	435
140	151	BLS1506	1386	668
200	151	BLS2006	1995	1017

Double-Acting Climbing Jacks



◀ Typical stage-lift application using a custom built Enerpac system to lift the 360 ton Akkerwinde wooden bridge in the Netherlands.

BLS Series



Capacity per Lifting Point:

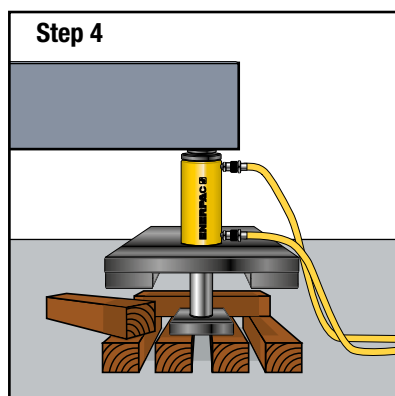
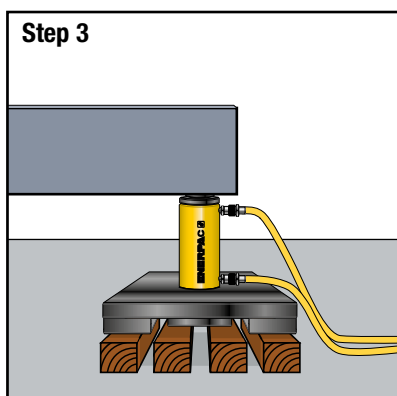
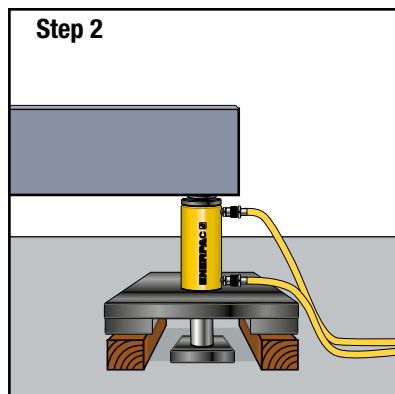
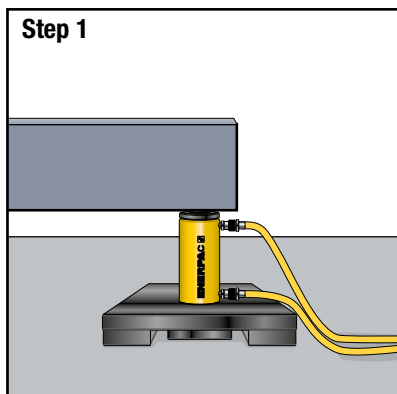
50 - 200 ton

Stroke per Stage:

150 - 161 mm

Maximum Operating Pressure:

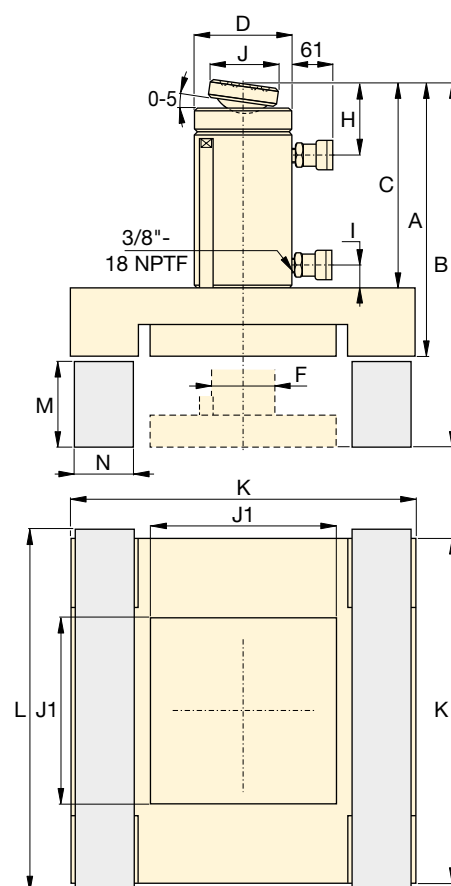
700 bar




▲ Stage Lifting Sequence

- Step 1:** The climbing jack is placed on a solid support under the load (retracted plunger).
- Step 2:** Plunger extends, lifting the load and giving clearance to insert two outer blocks under the spreading plate.

- Step 3:** Plunger retracts, giving clearance to position the central blocks which will support the plunger plate for the next extension.
- Step 4:** Plunger extends, lifting the load, giving clearance to insert two new blocks, placed crosswise under the spreading plate.



Cylinder Effective Area (cm²)		Oil Capacity (cm³)		Dimensions (mm)										Cribbing Blocks * and Dimensions (mm)					Model Number
Push	Pull	Push	Pull	A	B	C	D	F	H	I	J	J1	K	Material	L	M	N	(kg)	
71,2	21,5	1111	335	406	556	318	127	79	56	36	50	240	515	Azobe Wood	565	140	120	170	BLS506
133,3	62,2	2238	1045	445	606	343	177	95	76	24	71	330	670		720	150	160	315	BLS1006
198,1	95,4	3090	1488	472	624	370	203	114	94	39	130	230	475	Solid Aluminium or Steel	500	140	115	322	BLS1506
285.6	145.6	4332	2209	510	661	387	248	133	102	37	130	270	550		575	140	135	373	BLS2006

* Cribbing blocks are not supplied by Enerpac.

▼ JS250 and JS500 Enerpac 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 4 jack-up units
- Adjustable top barrel is standard on all models
- Lifting barrels are stacked together to mechanically hold the load
- Up to 4% side load capacity depending on lifting 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/lowering applications. The comprehensive self-contained design features simple to use software.
- Automatic synchronization of multiple networked lift points.
 - Overload and stroke alarms
 - Emergency stop switch at jack-up units and controls.

▼ Enerpac has been awarded a contract by Burkhalter to extend the height of Enerpac's 2000 ton (500 ton per tower) jack-up system from 20m to 36m for future projects.



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



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



Enerpac 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 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

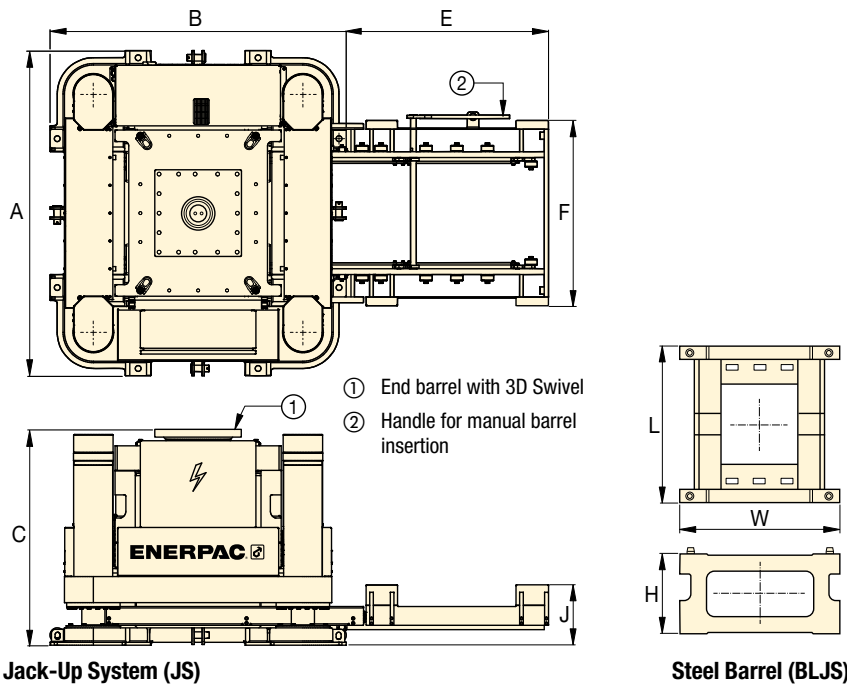


Capacity Per Lifting Tower:

250 - 500 ton

Lifting Height:

10 - 15 metres



Jack-Up System (JS)

Steel Barrel (BLJS)

Steel Barrels

For use with Jack-Up System	Barrel Set Model Number	Number of Barrels per Set	Barrel Dimensions (mm)			Weight per Barrel (kg)
			L	W	H	
JS250	BLJS250	4	1150	1150	500	360
JS500	BLJS500	4	1700	1700	700	950

Jack-Up Systems

Capacity per Tower ton (kN)	Model Number	Maximum Sideload	Maximum Lifting Speed (m/hr)	Base Frame Dimensions (mm)			Barrel Loading System (mm)			Electric Power Pack (kW)	Weight per Jack-Up Unit * (kg)	Weight Adjustable Top Barrel (3D Swivel) (kg)
				A	B	C	E	F	J			
250 (2500)	JS250	3% @ 10m	4	2250	2050	1475	1400	1341	418	15	7500	2880
500 (5000)	JS500	4% @ 15m	4	2800	2300	1700	1980	1771	458	30	13.750	3850

* Weight per jack-up tower, excluding adjustable top barrel.



Jack-up System Smart Box

The **Smart Box SBSJ-SCCV4** 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

Adjustable top barrel is standard on all models.

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 700 bar pump with 4/3 directional valve.

▼ Shown: HSL50006 Strand Jack



- Precision control of synchronous lifting and lowering
- Can be controlled by a single operator from a central location for increased safety
- Automated locking - unlocking operation
- Two strand sizes: 15,7 mm and 18 mm (0.62 and 0.71 inch)
- Telescopic strand guide pipes prevent bird caging
- Internal components are coated with Lunac, an anti-corrosion coating, making it suitable for marine environments
- Lifting anchor included with all strand jacks
- Lloyd's witness tested to 125% of maximum working load.

▼ HSL85007 Strand Jack System used on Enerpac custom Self Erecting Tower.



High Capacity Precision Control



Heavy Lifting Strand Jacks

Enerpac strand jacks are the strand jacks of choice for customers seeking precise synchronous control with heavy-lifting capacity in an economical, compact, and reliable foot print.

Enerpac strand jacks are powered by electrical or diesel driven hydraulic power packs and controlled by Enerpac's proprietary SCC-Smart Cylinder Control System to ensure full control of lifting and lowering operations.

Enerpac continually improves reliability, durability, and safety of their strand jacks, making them an industry standard for heavy lifting.

▼ Enerpac's SCC-Smart Cylinder Control System simplifies synchronous operation with intuitive controls and a user-friendly graphical interface.



Heavy Lifting Strand Jacks



Strand Jacks

A strand jack can be considered a linear winch. In a strand jack, a bundle of steel strands are guided through a main "lifting" jack.

Above and below the cylinder are anchor systems with wedges that grip the strand bundle simultaneously. Lifting and lowering a load is achieved by hydraulically controlling the main jack and both mini jacks alternately.

In the case of system pressure loss, the wedges are mechanically closed automatically, holding the suspended load in place.

Today strand jacks are widely recognized as the most sophisticated heavy lifting solution. They are used all over the world to erect bridges, load out offshore structures, and lift/lower heavy loads where the use of conventional cranes is neither economical nor practical.

HSL Series



Capacity:

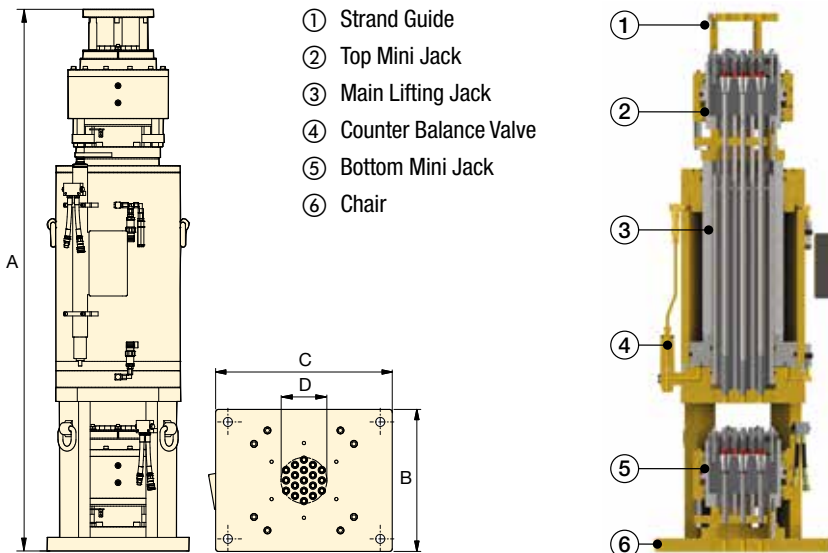
15 - 1250 ton

Stroke:

250 - 600 mm

Maximum Operating Pressure:

350 bar



▼ Strand Jack Accessories

Contact Enerpac for assistance at enerpac.com/contact-us



SLPP-Series Hydraulic Power Packs

Enerpac offers a comprehensive range of hydraulic power packs that are optimized for use with their industry leading heavy lifting strand jacks.



SG-Series Strand Guides

Provides a guide for the strand as a strand jack lifts the load.



SR-Series Strand Recoilers

Passively pays in or pays out strands while jacking and lowering.



SD1 Strand Dispenser

Essential to safely unbundle a new strand coil.



Lifting Anchor

Each Strand Jack includes a lifting anchor for attaching strand to the load.

Strand Diameter mm (inch)	Capacity *		Model Number	Number of Strands	Stroke (mm)	Dimensions (mm)				(kg)
	ton	(kN)				A	B	C	D	
15,7 (.62)	30	(300)	HSL3006	3	480	1851	350	500	59	500
	70	(700)	HSL7006	7	480	1915	360	575	93	640
	200	(2000)	HSL20006	19	480	1992	522	650	169	1300
	300	(3000)	HSL30006	31	480	2046	673	673	216	2180
	500	(5000)	HSL50006	48	480	2136	733	733	273	3150
18 (.71)	15	(150)	HSL1507	1	250	1242	220	220	20	100
	45	(450)	HSL4507	3	480	1728	350	500	73	500
	60	(600)	HSL6007	4	480	1752	400	625	88	650
	100	(1000)	HSL10007	7	480	1926	408	625	116	850
	200	(2000)	HSL20007	12	480	2001	522	650	165	1400
	300	(3000)	HSL30007	19	480	2055	673	673	210	2180
	450	(4500)	HSL45007	31	480	2223	733	733	272	3050
	650	(6500)	HSL65007	43	480	2237	850	850	351	3950
	850	(8500)	HSL85007	55	480	2402	900	900	364	5000
	1000	(10.000)	HSL100007	66	480	2558	1092	1092	436	7650
	1250	(12.500)	HSL125007	84	600	2658	1100	1100	458	8300

* Capacity is based on 2,5 minimum safety factor over strand breaking load.

▼ SyncHoist System with SHC5540S Cylinders and SHP-Series Pump



- High precision load manoeuvring, vertically and horizontally – using one crane
- Reduces the risk of damage from oscillations of wire rope due to crane jogging and sudden starts/stops
- Vastly improving worker safety, operating speed and control
- Weather conditions play less critical role
- PLC-controlled hydraulics turn lifting into high accuracy hoisting and load positioning system
- Double-acting push/pull cylinders with load holding valves for added safety in case of hose rupture or coupler damage
- Cost reduction compared to conventional load positioning methods.

Options for system management & control:

- Manual control with load and position monitoring for up to four cylinders as standard
- Automatic control available with addition of SFPSSC control panel provides automatic movements as well as stroke and load warning functions.

▼ Bridge segments are hoisted from the ground, being positioned with a 4-point SyncHoist system with fully monitored cylinders.



▼ Rigging engineers used the SyncHoist system to precisely monitor and adjust each lifting point independently, or together in a synchronized manner to position the 1140 ton nuclear plant module.



Accurate Hoisting and Load Positioning Enhancing a Crane's Capability



Synchronous Hoisting

Enerpac SyncHoist is a unique crane product for below-the-hook positioning of heavy loads that require precision placement. The SyncHoist system may reduce the number of cranes needed and reduce the costs of multiple picks.

Functions

- High precision horizontal and vertical load positioning
- Load and position monitoring standard on all units to ensure safe and accurate operation.

Applications

- Positioning of rotor, stator and propeller blades of wind turbines
- Positioning of roof sections, concrete elements, steel structures
- Positioning of turbines, transformers, fuel rods
- Precise machinery loading, mill rod changes, bearing changes
- Precise positioning of pipe lines, blow out valves
- Positioning and aligning of ship segments prior to assembly.

▼ Enerpac SyncHoist system in use during roof truss picks: precise lift and positioning of stadium retractable roof trusses. 33 trusses weighing between 450 - 750 ton.



SyncHoist - High Precision Load Positioning



What is SyncHoist?

Enerpac SyncHoist is a hydraulically operated auxiliary attachment for high precision load positioning for cranes.

The automatic version with PLC-controlled hydraulic pump monitors and guides the powerful double-acting push-pull cylinders integrated into the lifting points above the load. The SyncHoist system can be used for positioning, tilting and aligning of loads.

- Patented system
- European lifting directive and safety requirements as well as ASME BTH-1 standard for below the hook lifting devices.

SyncHoist improves safety, operating speed and control of load movement

Geometric positioning of heavy loads in a horizontal and vertical plane are frequently done using more than one crane.

Synchronising movements between cranes are difficult and risky. The lifting inaccuracy can result in damage to the load and support structures and puts workers at risks. The SyncHoist system can be used for controlled hydraulic horizontal and vertical material handling.

SHC-Series Cylinders

Standard stroke lengths and capacities shown serve most common applications. Contact Enerpac for custom stroke lengths and additional capacities to suit your specific application.

SHP-Series Manual Control

- Push button pendant control of up to four cylinders
- Load and position readout from sensors on SHC-series cylinders
- Visual check oil level, filter indicator.

Automatic Control Available

- Connect control panel **SFPSSC** to SHP-Series pumps to enable automatic control
- PLC-control and touch screen
- Pre-programmable motions and data recording
- System warnings for:
 - maximum cylinder load control setting
 - stroke and position control
 - thermal motor protection.

SHC, SHP Series



Capacity Per Lifting Point:

55 - 85 - 110 ton

Maximum Stroke:

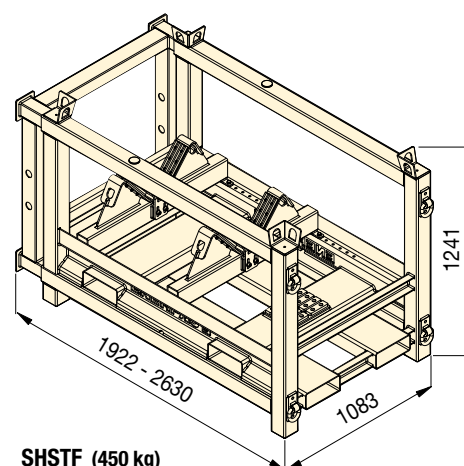
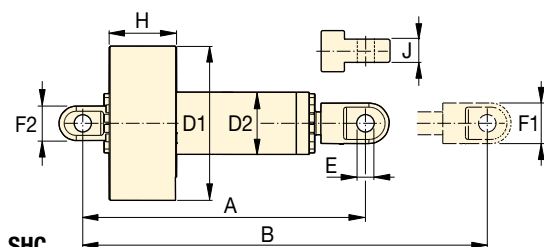
1000 - 1500 mm


Accuracy Over Full Stroke:

± 1,0 mm

Maximum Operating Pressure:

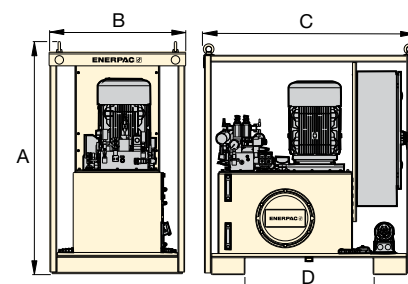
700 bar



Cylinder Capacity	Cylinder Stroke	Cylinder Model Number *	Dimensions (mm)									
ton (kN)	(mm)		A	B	D1	D2	E	F1	F2	H	J	(kg)
55 (550)	1000	SHC5540S	1800	2800	690	245	59	160	160	395	80	624
85 (850)	1000	SHC8540S	1830	2830	680	265	72	164	164	385	100	700
110 (1100)	1500	SHC11060S	2355	3855	780	315	85	205	174	405	124	1235

* Each cylinder requires separate purchase of (1) **EVO-SC-25** sensor cable (25 m length) and (2) **SHH25** hydraulic hoses (25 m length) for connection to SHP-series pumps.
All SHC-cylinders supplied with adjustable steel transport frame (model nr. **SHSTF**) to protect your investment.

Maximum Lifting Points	Reservoir Size (litres)	Pump Model Number	Oil Flow per Outlet (l/min)	Motor Size 400V, 3 ph, 50 Hz (kW)	Dimensions (mm)				(kg)
					A	B	C	D	
4	250	SHP414SW	1,40	7,5	1368	805	1250	760	780
4	250	SHP421SW	2,10	10	1368	805	1250	760	780



▼ One leg of ML40 Mini-Lift Hydraulic Gantry



- Compact design for use in areas with limited space
- Self-contained hydraulics with synchronized lifting for enhanced safety
- Powered travel, under load, standard on all models for ultimate utilization
- Three-stage, double-acting cylinder provides extended lifting capacity
- Easy-to-use handheld pendant control can operate four legs simultaneously
- Compatible with standard Enerpac gantry accessories
- Operates on 115, 230 VAC 1-phase or 380-415 VAC 3-phase power (1 circuit per leg)
- ASME B30.1 compliant and load tested under witness of Lloyd's Register.

▼ SL400 gantry used to offload and install new forming press.



▼ SBL1100 gantry offloading a large generator for installation in a power plant.



Lift Heavy Machinery Safely

Portable design with precision control



Header Beams

Sold in pairs and includes lifting points and fork pockets for easy positioning on gantry towers.

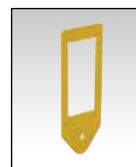
Description	Model Number
6 metres length	HBH6
8 metres length	HBH8



Skid Tracks

Skid tracks used for leveling and load distribution to reduce ground bearing pressure. Available in two standard lengths.

Description	Model Number
3 metres length	GST100-3
6 metres length	GST100-6



Lifting Anchors

Designed to transfer the load to the top of the header beam. Can accommodate a 250-ton shackle or attach directly to the lifted load.



Higher Capacities SL and SBL-Series Hydraulic Gantries

When the ML-Series Mini Gantry isn't quite enough capacity or height for your application,

Enerpac offers a full range of safe-to-operate full featured telescopic hydraulic gantries, up to 10.484 kN capacity and lifting heights up to 12 metres. Contact Enerpac for more details.

Mini-Lift Hydraulic Gantry



ML-Series, Mini-Lift Gantry

The cost-effective, compact ML40 Mini-Lift Hydraulic Gantry System, with wireless controls offers several key features:

Safety:

Stroke synchronization ensures a level lift regardless of load distribution. PLC-controlled lifting using feedback from a stroke encoder maintains even height on all legs and will stop the lift if necessary to prevent issues.

Capacity:

400 kN lifting capacity at full extended lift height. Even with its compact size, the ML40 can lift full capacity to full height of 5,5 metres (18 ft), making it the most versatile portable gantry in the market.

Compact:

Fits through standard doorway and is easily moved and set up. The ML40 gantry can be moved through the tightest spaces imaginable in all industrial settings. Easy to push, pull and maneuver, the ML40 can get into spaces that no other gantry can.

ML Series



Capacity (with 4 legs):

400 kN

Maximum Lifting Height:

5,5 metres



Wireless Pendant

- Stroke measurement and closed loop synchronization ensure level lifting and lowering
- Integrated 1.8 inch color display provides load and stroke information for all four lift points.



Mini-Lift Gantry Transport Frame

Galvanized steel transport frames to allow shipment of mini gantry legs via standard truck lines. Two legs mount on each frame

which includes storage for controls and accessories.

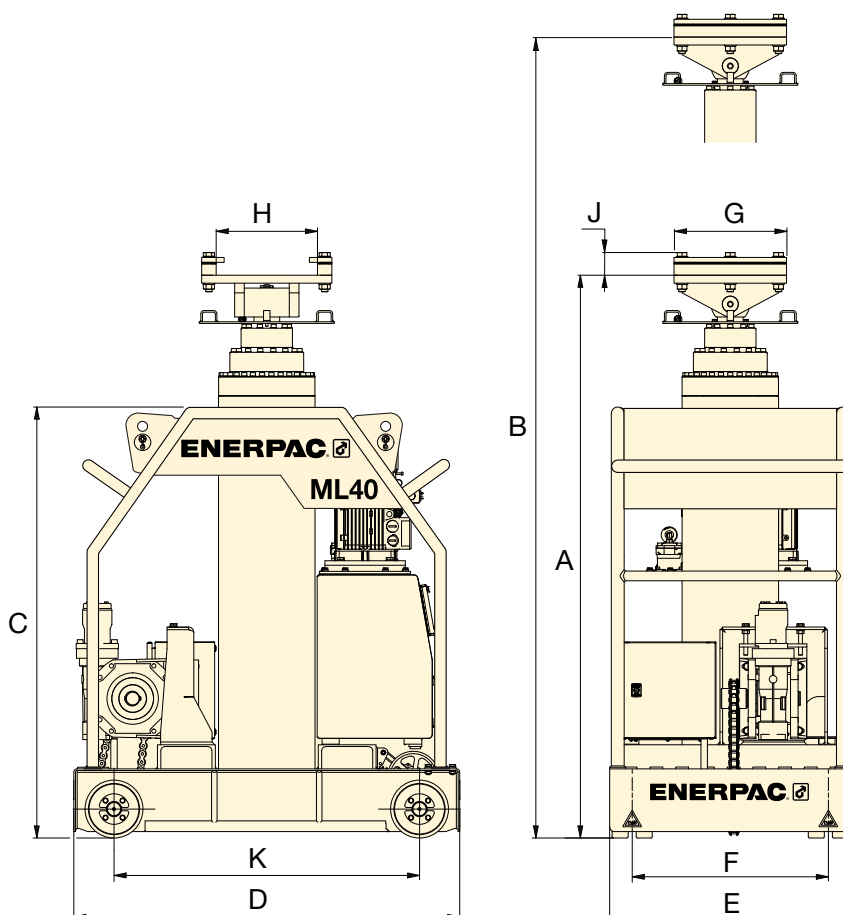
Description	Model Number
Set of two frames	ML40TF



Operating Voltages

ML40 is available in three voltages. 1 circuit per leg.

Voltage	Model Number
115 V, 1 phase, 16 A	ML40B
208-240 V, 1 phase, 8 A	ML40E
380-415 V, 3 phase, 2 A	ML40W



Max. Capacity *	Model Number (4 legs)	Retracted Height A (mm)	Stage 1		Stage 2		Stage 3		Base Height C (mm)	Base Length D (mm)	Base Width E (mm)	Track Gauge F (mm)	Beam Plate			Wheel Base K (mm)	Weight ** (kg)
			Max. Height B (mm)	Max. Capacity * (kN)	Max. Height B (mm)	Max. Capacity * (kN)	Max. Height B (mm)	Max. Capacity * (kN)					Length G (mm)	Width H (mm)	Height J (mm)		
400	ML40	1900	3000	400	4200	400	5500	400	1390	1200	750	610	350	315	71	950	1350

* Capacity with 4 legs.

** Weight per leg including oil.

SL, SBL-Series, Telescopic Hydraulic Gantries **ENERPAC**

▼ SBL1100 with optional skid tracks, header beams, powered side shifts and lifting anchors



- Self-contained hydraulics and electronics
- Intelli-Lift wireless control system
- Self-propelled wheels or tank rollers
- Foldable boom on SBL600, SBL900 and SBL1100 to enable easy transport and setup
- Full range of supplementary equipment: header beams, lifting anchors, side shifts and skid tracks
- All gantries comply to ASME B30.1, CE, UKCA and other safety standards
- Lloyds witness tested to 125% of maximum working load.

Precision Lift and Position of Heavy Loads

The Ultimate in Safety and Control



Intelli-Lift Wireless Control

The Intelli-Lift wireless control system is included with all Enerpac hydraulic gantries.

The Intelli-Lift controller offers superior safety and control and includes the following features:

- Encrypted bi-directional communication that eliminates interference from other devices
- Remote operation using multi channel wireless (2.4 GHz) or wired (RS-485) control
- High and low speed settings
- Automatic synchronization of lifting with an accuracy of 24 mm (0.95 inch)
- Automatic synchronization of travelling with an accuracy of 15 mm (0.60 inch)
- Overload and stroke alarms
- Remote side shift control
- Emergency stop switch.



ML40, Mini-Lift Hydraulic Gantry

400 kN lifting capacity at full extended lift height. Even with its compact size, the ML40 can lift full capacity to full height of 5,5 metres (18 ft), making it the most versatile portable gantry in the market.

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▼ Enerpac SBL-Series hydraulic gantries are used in a variety of applications to install turbines, transformers and other power generation equipment all over the world.



Maximum Capacity (with 4 towers)	Model Number (4 towers)	Retracted Height
(kN)		A (mm)
1000	SL100	2050
2000	SL200	2731
3000	SL300	2715
4000	SL400N	2725
4000	SL400	3166
5200	SBL500	3028
6000	SBL600	4300
8976	SBL900	5004
10.484	SBL1100	4370

Telescopic Hydraulic Gantries



Hydraulic Gantries

Telescopic Hydraulic Gantries are a safe, efficient way to lift and position heavy loads in applications where traditional cranes will not fit and permanent overhead structures for job cranes are not an option.

Hydraulic Gantries are placed on skid tracks to provide a means for moving and placing heavy loads, many times with only one pick.

Enerpac Hydraulic Gantry Systems:

• ML-Series Mini-Lift

Fits through standard doorway and is easily moved and set up. The ML40 gantry can be moved through the tightest spaces imaginable in all industrial settings.

• SL-Series Super Lift

The cost-effective SL-Series Super Lift offer control and stability for everyday lifting applications below 4000 kN up to 9 metres.

• SBL-Series Super Boom Lift

The heavy-duty SBL-Series Super Boom Lift boom style gantries offer increased lifting capacity of over 4000 kN to heights of 12 metres.

All Enerpac gantries are delivered with specific properties and control systems to ensure optimum stability and safety.

SL, SBL Series



Capacity with 4 towers:

1000 - 10.484 kN

Lift Height:

3,5 - 12 meters

▼ Optional Gantry Accessories

Contact Enerpac for assistance by email at enerpac.com/contact-us



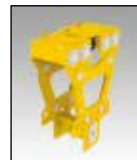
Skid Tracks

Allows for easy levelling of the gantry tower and reduce ground bearing pressure, available in two standard lengths, 3 and 6 m.



Header Beams

Sold in pairs and includes lifting points and fork pockets for easy positioning on gantry towers. Available in standard lengths of 8, 10 and 12 meters



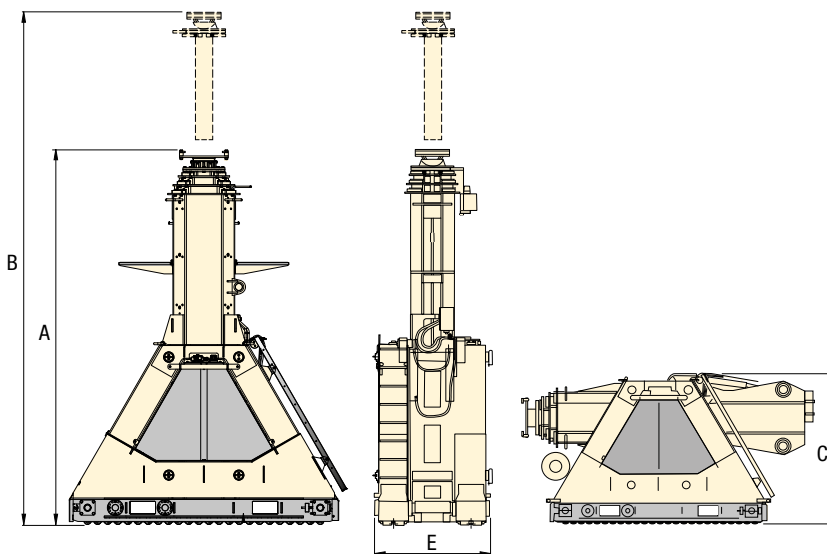
Powered Side Shift


Electric propulsion controlled by standard gantry controls. Each set consists of 4 units.



Lifting Anchors

Designed to transfer the load to the top of the header beam. Can accommodate a 250 ton shackle or attach directly to the lifted load.



Stage 1		Stage 2		Stage 3		Transport Height ¹⁾	Skid Track Width		Model Number (4 towers)
Max. Height	Max. Capacity *	Max. Height	Max. Capacity *	Max. Height	Max. Capacity *				
B (mm)	(kN)	B (mm)	(kN)	B (mm)	(kN)	C (mm)	E (mm)	(kg) ²⁾	
3400	1000	4750	600	—	—	1930	812	1735	SL100
4716	2000	6700	1360	—	—	2611	812	2200	SL200
4615	3000	6710	2000	—	—	2900	812	3250	SL300
4365	4000	6025	3000	7700	2000	2725	812	3600	SL400N
5224	4000	7232	4000	9140	1840	3170	1218	4600	SL400
4998	5200	6908	5200	8618	3000	3028	1218	6300	SBL500
6500	6000	8600	5000	10.600	3700	2250	1218	9000	SBL600 ¹⁾
8304	8976	11.304	5924	—	—	2243	1218	13.350	SBL900 ¹⁾
7004	10.484	9668	6756	12.002	3780	2244	1218	11.950	SBL1100 ¹⁾

* Maximum capacity with 4 towers.

¹⁾ Foldable boom on SBL600, SBL900 and SBL1100.

²⁾ Weight per tower.



▼ LH-Series, Low-Height Skidding System



- **Low starting height saves time and increases versatility**
- **Portable design allows for easy transport and setup**
- **System can push or pull load without relocating skidding cylinder**
- **Skid track sections bolt together to allow each setup to be customized as needed**
- **Replaceable PTFE skid pads lower the total cost of ownership.**

Low-Height Skidding System for Heavy Loads

The Ideal Low-Height Jack & Slide Solution



Skidding Systems

The Skidding System is comprised of a series of skid beams moved by hydraulic push-pull cylinders, travelling over a pre-constructed skid track.

A series of special PTFE-coated Teflon® pads are placed on the skid tracks to reduce friction. The push-pull cylinders are then connected by hydraulic hoses to our Split-Flow Pump. The Split-Flow Pump can be mounted on an optional pump cart for easy transport.

An optional storage and transport frame easily holds the equipment in between use.

▼ LH400, Low-Height Skidding System provides the service team with the ability to maneuver and transport a press frame.



▼ LH400 Skidding used to remove an old press from a facility to make room for new equipment.



Low-Height Skidding System



Low-Height Skidding Jack Starter Kit - LH400SK

A complete starter kit is available to fit the needs of any jack and slide application. This system comes with two skidding units that will support up to 3560 kN in total. This kit will get the job done, but there are optional accessories available in addition (see page 370-371).

Each skidding unit will have 1 push-pull unit, 2 skid beams and 5 skid tracks.

The Split-Flow Pump (to be ordered separately) has 2 outlets and can be easily towed on the pump cart. After the job is complete, components can be stowed on the included storage frame.

LH400SK Starter Kit includes:	Model Numbers	Qty
Push-Pull Unit (1780 kN)	LHPP25	2x
Skid Beam A (1 meter)	LHSB1A	2x
Skid Beam B (1 meter)	LHSB1B	2x
Skid Track (1 meter)	LHST1	10x
Storage/Transport Frame	LHSF	1x

LH Series



Skidding Capacity with two push-pull units:

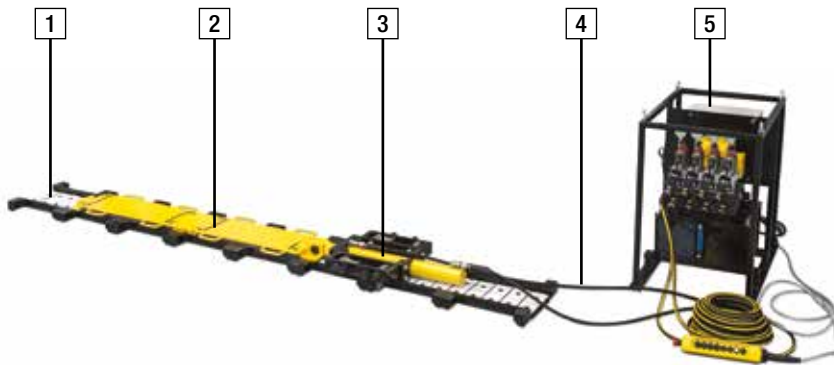
3560 kN

Push-Pull Stroke:

600 mm

Maximum Operating Pressure:

700 bar

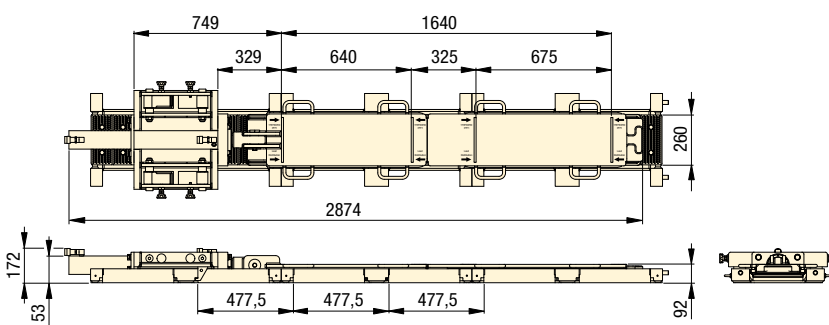


LH-Series, Low-Height Skidding System Requirements

1	Skid Track LHST1	Required
2	Skid Beam LHSB1A + LHSB1B	Required
3	Push-Pull Cylinder Unit LHPP25	Required
4	Hydraulic Hoses	Required
5	Split-Flow Electric Pump SFP	Required
6 *	Track Support	Application dependant
7 *	Storage-Transport Frame LHSF	Optional
8 *	Pump Cart LHPC	Optional

* not shown

LH400, Low-Height Skidding System (dimensions in mm)



SFP-Series, Split-Flow Pump

Split-Flow pumps distribute an equal amount of hydraulic oil to a maximum of 8 outlets. Smart valve technology allows both controlled lifting and lowering of heavy loads.

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LHPC Pump Cart

The LHPC pump cart easily tows pump around jobsite and can be used with all models of SFP-Series Split-Flow Pumps.



Hydraulic Power Packs

Enerpac offers a comprehensive range of hydraulic power packs that are optimized for use with Skidding Systems.

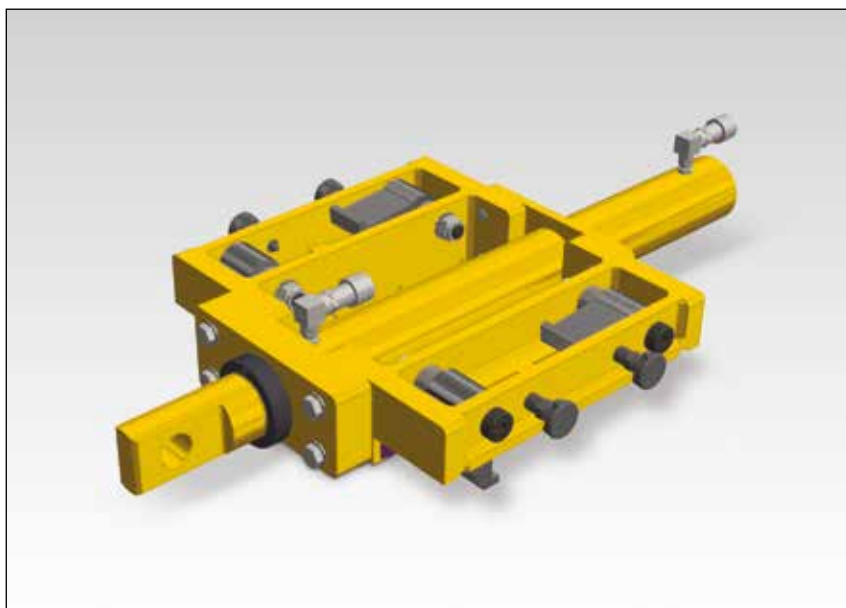


Hoses

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac hydraulic hoses.

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▼ LHPP25 Low-Height Push-Pull Unit



Push-Pull Unit

- Connects to first skid beam to push or pull load along skid track
- Easily reverse direction by switching reaction tabs
- Complies to ASME B30.1 and other safety standards.

▼ Low-Height Push-Pull Unit

Maximum Capacity (kN)		Model Number	Stroke (mm)	Weight (kg)
Push	Pull			
222	97,8	LHPP25	600	111

▼ LHSB1A and LHSB1B Skid Beams



Skid Beams

- Interlocks without any fasteners to slide load over skid track;
skid beam A (LHSB1A) attaches to the push-pull unit
skid beam B (LHSB1B) attaches to skid beam A
- Polished stainless steel skid surface
- Carrying handles for easy transport.

▼ Skid Beams

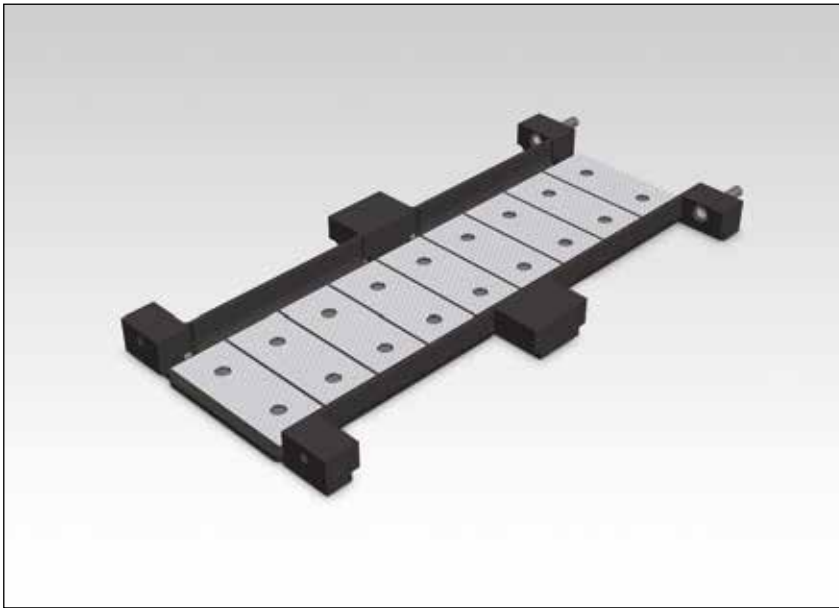
Capacity (kN)	Model Number	Weight (kg)
890	LHSB1A	66
890	LHSB1B	63



◀ Details of push-pull unit of LH400.

Low-Height Skidding Components

▼ LHST1 Skid Track



Skid Track

- Support the load for skidding operations
- Track sections bolt together
- Includes 9 pieces easily replaceable PTFE skid pads.

▼ Skid Track

Maximum Capacity (per skid track) (kN)	Model Number	Track Length (mm)	Weight (incl. pads) (kg)
890	LHST1	955	67

▼ An LH400 Skidding System allows the maintenance team to transport transformers with access limitations.



▼ Low-Height Skidding System assembly (LH400).



LH Series



Skidding Capacity with two push-pull units:

3560 kN

Push-Pull Stroke:

600 mm

Maximum Operating Pressure:

700 bar



Teflon® Pads

A series of special PTFE coated Teflon® pads are placed on the skid tracks. The PTFE surface is matched with the skid beam and designed to achieve minimum friction coefficients.

Replacement Teflon® Pads come in packs of 12 pieces. Order model number **HSKSPS1**.



Storage and Transport Frame

For easy storage and transport of all low-height skidding components.


Fits following components:

2x **LLPP25** Push-Pull Unit

2x **LHBS1A** Skid Beam A

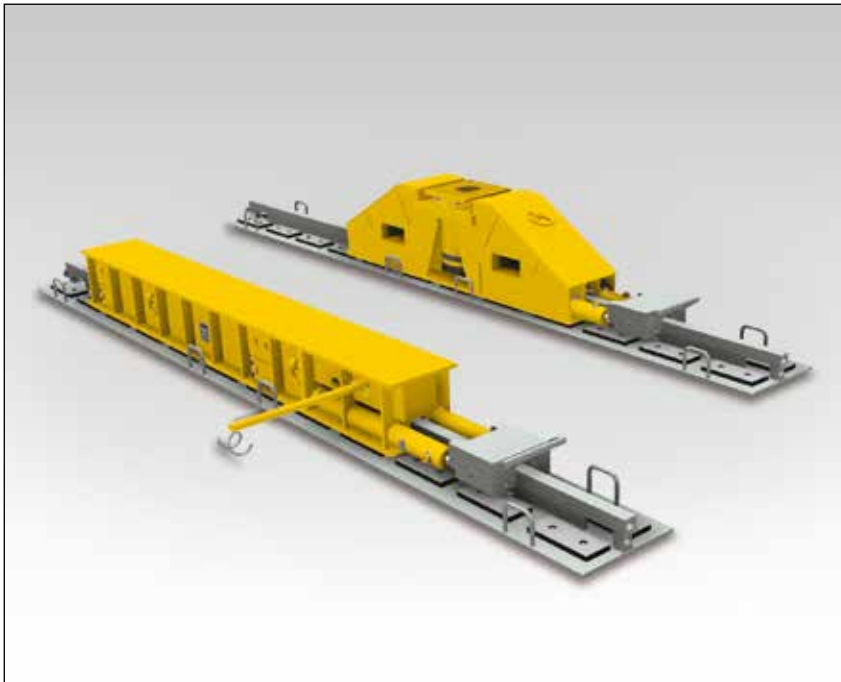
2x **LHBS1B** Skid Beam B

10x **LHST1** Skid Tracks

Model Number	Overall Dimensions L x W x H (mm)	 (kg)
LHSF	1080 x 935 x 895	200

With all components stored dimensions are: 1080 x 935 x 1003 mm, and total weight 1350 kg.

▼ Shown: HSK1250 Skidding System



HSK-Series, Skidding System

- PTFE skid pads with dimpled surface for low friction and long lifetime
- Easy to replace skid pads, no tools necessary
- Bi-directional operation using push-pull cylinders avoid the need to reposition cylinders for switching direction
- Large load support surface on the skid beams for distributing load
- Bottom of skid shoes equipped with stainless steel sliding plates.

LH-Series, Low-Height Skidding System

- 2-in-1 track design for added support
- Intuitive pump controls (SFP-Series Split-Flow Pump)
- Easily reversible to change skidding direction
- Portable design for quick setup.

▼ A custom hydraulic Low-Height Skidding System will provide the maintenance team with the ability to maneuver and transport transformers with physical access limitations.



The Ideal Jack and Slide Solution



Skidding Systems

The skidding system is comprised of a series of skid beams moved by hydraulic push-pull cylinders, travelling over a pre-constructed track.

A series of special PTFE coated pads are placed on the skid tracks. The PTFE surface is matched with a sliding plate under the Enerpac skid beams, designed to achieve minimum friction coefficients. The skid beams are connected by hoses to a hydraulic electric or diesel driven power pack.

In addition to our standard skidding systems, we have the capability to create customized skidding systems to meet your specific requirements.



Controls

Enerpac offers several options for controlling our skidding systems. Wireless Controls allows the operator the freedom to view the skidding operation from multiple locations while providing complete control of all system functions.

Manual controls offer a cost-effective solution by utilizing manual hydraulic valves mounted directly on the skidding system power unit.

▼ HSKJ2500 Skid Shoe Jack.



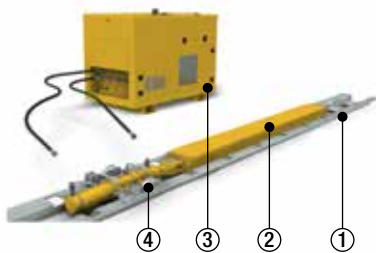


Skidding Systems

Enerpac Skidding Systems are available in several versions:

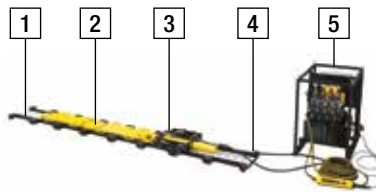
- **B-Series (Skid Beam)** utilizes a tall skid beam with built-in push-pull cylinders. Skidding direction can be easily switched by flipping a lever on the attached gripper box.
- **J-Series (Skid Jack)** provides the same functionality as the B-Series with the added benefit of having a built-in cylinder for lifting or leveling the load.

- **LH-Series (Low-Height)** includes low-height skid beams that can fit in tight spaces while still offering high capacity. We also offer a track support for added rigidity when the surface is not fully supported.



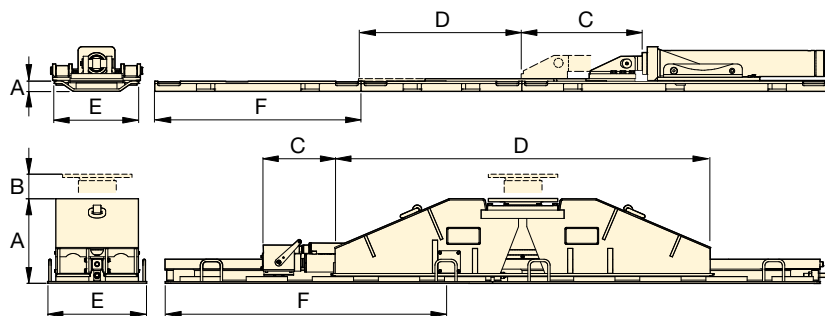
HSK-Series Skidding System Requirements

- ① Skid Track
- ② Skid Beam
- ③ Hydraulic Power Pack
- ④ Hydraulic Push-Pull Unit



LH-Series Skidding System Requirements

- 1 Skid Track (required)
- 2 Skid Beam (required)
- 3 Push-Pull Cylinder Unit (required)
- 4 Hydraulic Hoses (required)
- 5 Split-Flow Electric Pump (required)
- 6 Track Support (optional, not shown)
- 7 Storage/Transport Frame (optional, not shown)
- 8 Pump Cart (optional, not shown)



Skidding Systems

Maximum Capacity (per beam)	Maximum Push-Pull Capacity ton (kN)		Model Number	Skid Beam Height (with track)	Lifting Stroke	Push-Pull Stroke	Skid Beam Length	Skid Beam Weight	Skid Track Width	Skid Track Length	Skid Track Weight
	ton (kN)										
		Push	Pull	A (mm)	B (mm)	C (mm)	D (mm)	(kg)	E (mm)	F (mm)	(kg)
125 (1250)	22 (220)	16 (160)	HSKB1250	309	–	600	2500	740	400	1983	120
125 (1250)	22 (220)	16 (160)	HSKJ1250	502	175	600	1690	790	400	1983	120
200 (2000)	25 (255)	14 (141)	HSKLH2000	204	–	600	2902	340	540	1998	120
250 (2500)	40 (400)	26 (260)	HSKB2500	374	–	600	3000	1020	600	1946	290
250 (2500)	40 (400)	26 (260)	HSKJ2500	600	175	600	1784	1450	600	1946	290
180 (1780)	25 (255)	11 (98)	LH400 *	92	–	600	1080	63	250	955	67

* Low-Height Skidding System, see pages 368 - 371 for detailed and technical information.

HSK LH Series



Capacity:

125 - 250 ton

Push/Pull Stroke:

600 mm

Lifting Stroke:

175 mm



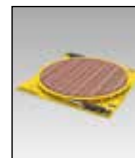
Skid Tracks

Include specially constructed and easily replaceable PTFE coated pads. Skid track is sold separately.



Hydraulic Power Packs

Enerpac offers a comprehensive range of hydraulic power packs that are optimized for use with Skidding Systems.



ETT-Series Turntables, Safe and controlled rotation

The ETT-Series Turntables is your solution for rotating heavy loads during, before or after a lifting and skidding operation.

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▼ ETR50H, Enerpac Trolley System (shown with Trolley Track Plates)



- High transport speed:
25 - 50 m/hour loaded,
100 m/hour unloaded
- Suited for repetitive movements
- Runs on simple flat steel plate
- Ease of maintenance:
– long maintenance intervals
– no consumables
- Clean usage – electric driven
- Built-in synchronization – no need for forced external mechanical connection to synchronize movements
- Easy transport - compact design
- Hydraulic lifting cylinder option available
- Kits to accommodate other lifting options also available.

▼ The trolley system speeds up offshore wind transition piece load out: the transition pieces are positioned in the clamping frames and moved along the track.



▼ ETR-Series electric trolley undergoing factory acceptance testing prior to shipment.



Safe & Synchronized Travel



Product Overview

The ETR-Series Trolley System is comprised of electrically-driven trolleys which can carry heavy loads along a fixed track system.

The entire system is controlled by a hand held wireless control system.

A typical system is comprised of 4 Trolleys, 2 Tracks and one Controller. Trolley Tracks and Wireless Control must be ordered separately.




Control Panel and Cables

Operate up to 8 trolleys (same capacity each) using control panel with included wireless controller:

- Automatic synchronization of traveling with an accuracy of 10 mm (0.39 inch)
- Dual-band radio with automatic frequency search
- Wireless remote operation
- High and low speed settings
- Emergency stop switch
- Control cables operate trolley and provide feedback to controller.

Control Panel

Model Number (380-415 VAC, 32A)	Dimensions (mm)			 (kg)
	L	W	H	
ETR-CPW8	1290	600	1100	250

Control Cables

Model Number	Description
ETR-CBL-15	15 metres control cable
ETR-CBL-25	25 metres control cable



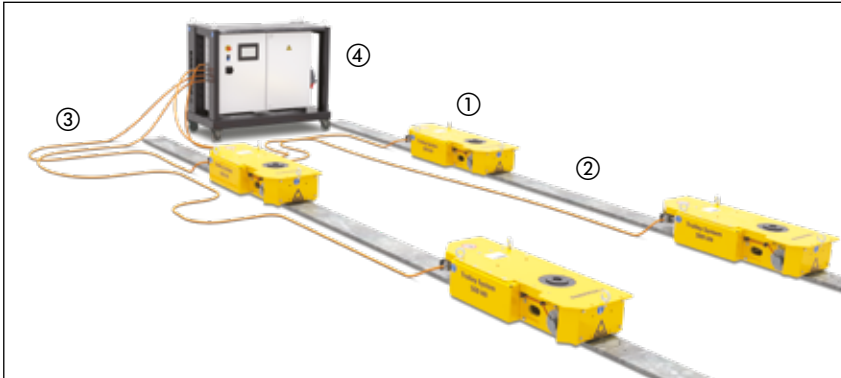
ETR-Trolley System

The Enerpac Trolley System provides an alternative method with increased benefits over traditional skidding methods.

Load movements are more stable due to the continuous movement and ability to precisely control travel speed including acceleration and deceleration.

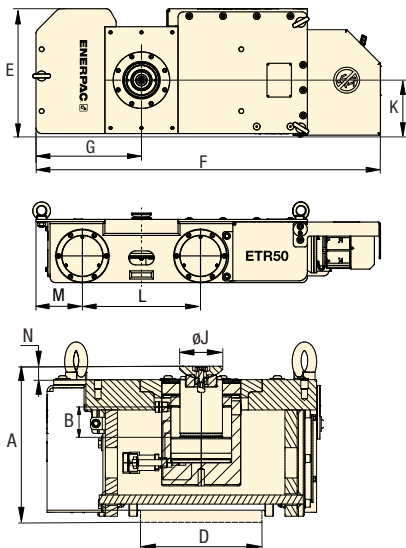
Key features:

Low speed (loaded):	25 m/hr
High speed (loaded):	50 m/hr
Travel speed unloaded:	100 m/hr
Accuracy:	10 mm
Sideload:	1,5% rated load
Sound Level:	< 80 dBA

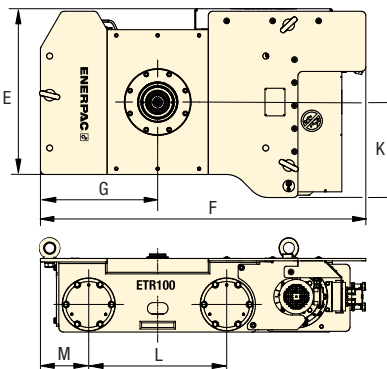


- ① Electric Trolley ETR-Series
- ② Track Plate **ETR-TP-015** or **ETR-TP-030**
- ③ Control Cable **ETR-CBL-15** or **ETR-CBL-25**
- ④ Control Panel **ETR-CPW8** (including wireless remote)
- ⑤ Split-Flow Electric Pump - **SFP-Series**
Not shown. Optional for units with hydraulic cylinders

ETR50



ETR100



ETR Series



Capacity Per Trolley:

500 - 1000 kN

Travel Speed (loaded):

25 - 50 m/hr

Motor Power:

0,38 - 0,75 kW



Trolley Track Plates

Track plates provide level guidance and support for the trolley. Two plates placed side-by-side are used for operation of

ETR100-Series Trolleys. Maximum inclination of tracks is 0,2 degree.

Model Number	Description
ETR-TP-015	1,5 m Trolley track plate
ETR-TP-030	3,0 m Trolley track plate



Additional Mounting Options

Mounting kits are available to accommodate other lifting and rigging solutions.

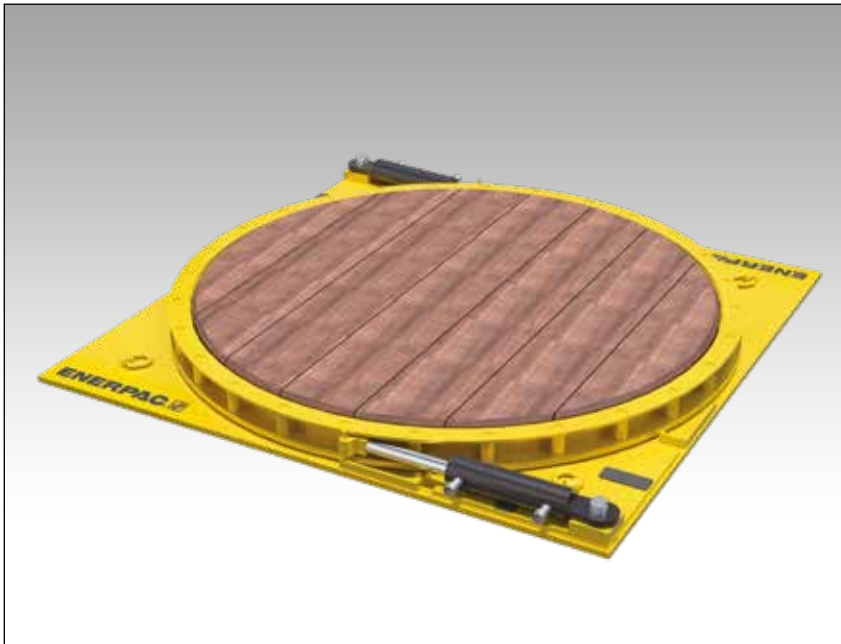
Model Number	Description
ETR50-SMK	Enerpac SCJ50 on ETR50
ETR100-SMK	Enerpac SCJ100 on ETR100
ETR50-BMK	Swivel beam mount on ETR50
ETR100-BMK	Swivel beam mount on ETR100

Capacity per Trolley Unit ton (kN)	Model Number (one unit)	Motor Power (kW)	Dimensions (mm)											(kg)
			A	Hydraulic Stroke ¹⁾	Track Width ²⁾	E	F	G	J	K	L	M	N	
50 (500)	ETR50	0,38	245	—	200	456	1225	375	125	202	420	165	10	310
	ETR50H		257	50									22	320
100 (1000)	ETR100	0,75	346	—	400	821	1415	510	170	415	600	210	15	850
	ETR100H		349	100									19	860

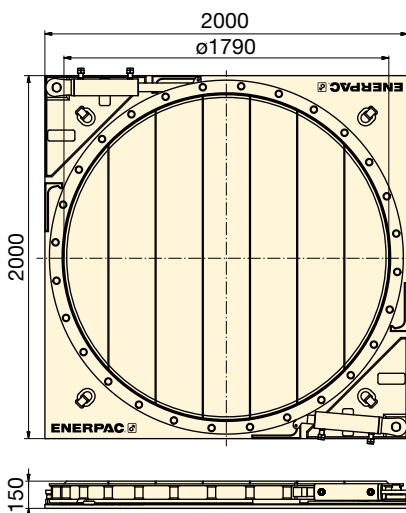
¹⁾ ETR50H includes HCG502 Cylinder with CATS50 Swivel Saddle. ETR100H includes HCG1004 Cylinder with CATS101 Swivel Saddle.

²⁾ ETR100 series uses two track plates side-by-side.


▼ ETT400 Turntable



- Safe and controlled rotation of heavy loads
- Easily change rotation direction
- Dual capacity: 200 ton with one cylinder, 400 ton with two cylinders
- Compact size for use in applications with limited space
- Compatible with standard Enerpac pumps
- Hardwood surface.



▼ SELECTION CHART

Maximum Load Capacity	Model Number	Cylinder Capacity *	Cylinder Oil Capacity *		No. of Cylinders *	Rotation per Stroke	Platform Diameter	
			advance	retract				
2000 (kN)	ETT200	222 (kN)	792	344	1	12,5 (degrees)	1790 (mm)	1700 (kg)
4000 (kN)	ETT400	222 (kN)	792	344	2	12,5 (degrees)	1790 (mm)	1725 (kg)

* Per cylinder. Cylinder modelnumber: **BRD259-ETT**

ETT Series

Maximum Capacity:

200 - 400 ton

Cylinder Capacity:

25 ton (222 kN)

Maximum Operating Pressure:

700 bar



Safe and controlled rotation

The ETT-Series is your solution for rotating heavy loads during, before or after a lifting and skidding operation.



SFP-Series, Split-Flow Pumps

Split-Flow pumps distribute an equal amount of hydraulic oil to a maximum of 8 outlets. Smart valve technology allows both controlled lifting and lowering of heavy loads.

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LH-Series, Low-Height Skidding

The ETT-Series are ideal in combination with our skidding systems, particular the LH-Series. Skidding and rotating in confined spaces is simplified.

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Telescopic Hydraulic Gantry

The ETT-Series in combination with our hydraulic gantry SL-Series makes load handling in the most demanding situations easy.

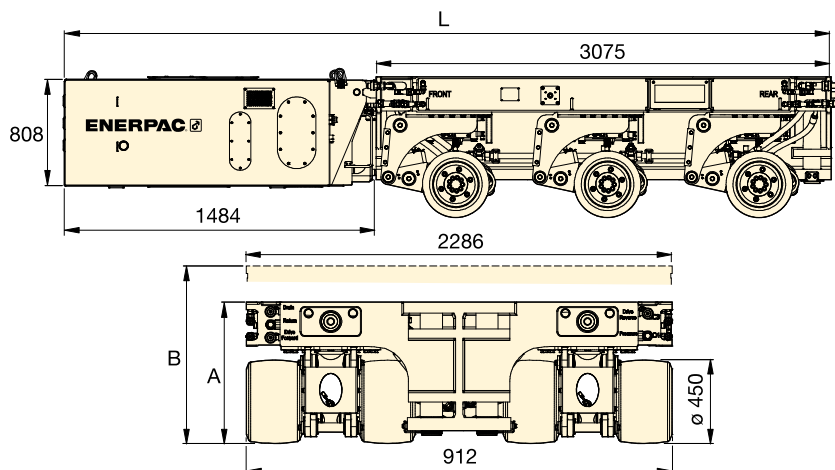
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SPMT, Self-Propelled Modular Transporter

▼ SPMT600-360 with MTPP360 hydraulic power unit (HPU)



- Modular design for multiple configurations.
- Minimized height and slim design are ideal for in-plant operation
- Intelli-Drive wireless control system is intuitive and easy to use
- One power pack can operate 2-3 trailers maximum depending on model
- Two trailers and power pack can be shipped inside a 20 ft. container
- Hydraulic power unit is tier-4 diesel engine for reduced emissions.



SPMT Series

Capacity:

60 ton (600 kN)

Transport Speed (unloaded - loaded):

3 - 1,5 km/h

Motor Size:

54 kW



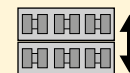
Self-Propelled Modular Transporter

The Enerpac Self-Propelled Modular Transporter (SPMT) features a minimized height and slim design, which makes it very easy to operate in confined spaces. Each wheel unit has a steering function as well as a lifting cylinder at its disposal. Two axles are driven, the centre axle is non-driven. Wheel propulsion is established by wheel drives.

The SPMT is operated by the Intelli-Drive Remote Controller. This remote controller can be used both hard wired and wireless (based on radio frequency).

The SPMT is a modular system and can be built up to a maximum configuration of six transporters in a row and two in the width. This is the maximum setup of units that can work together on just one Intelli-Drive Remote Controller.

The SPMT is a modular system comprised of trailers with 3 axle lines each and diesel hydraulic power units (HPU). Depending on the model number, the trailers and HPUs can be configured to a maximum of 4 trailers in 2 rows (4x2) or 6 trailers in 2 rows (6x2).



Crab



Carousel

Capacity (per transporter) ton (kN)	Transporter Model Number	Maximum Configuration (transporters in rows)	Steering Range (degrees)	Steering Mode crab carousel	Retracted Height A (mm)	Average Travel Height B (mm)	Overall Length L (mm)	Lifting Stroke (mm)	SPMT (kg)	HPU * Model Number	HPU * (kg)
60 (600)	SPMT600-100	4 x 2	+/- 50	● —	767	959	4560	384	8000	MTPP-100	2500
	SPMT600-360	6 x 2	+/- 179	● ●	764	956	5188	384	8300	MTPP-360	2800

* HPU = 54 kW Power Pack Diesel is sold separately.



OFFSHORE GANTRY CRANE

The Enerpac Over Head Travel Crane (OHTC) comprises two pairs of lifting beams, with an overall width of 30m, and a lifting capacity of 4800 ton for lifting, moving and lowering the concrete blocks for the offshore highway.



STRAND JACK GANTRY

The strand jack gantry is a steel structure to facilitate erection and skidding back, forth and sideways of heavy loads. The Enerpac strand jack gantry can be used with either skidding systems or hydraulic gantries on top.



TRAVEL GANTRY

The travel gantry combines the safety and efficiency of a hydraulic gantry with the ease of use of SPMT (self-propelled modular transporter) technology. With a lifting capacity of 67 ton, the travel gantry sets a new standard in equipment and container handling.



BRIDGE LAUNCHING SYSTEMS

Spindle Bar System: group of in-line hollow plunger cylinders. The hollow plungers allow the steel bars to be inserted through the cylinders, which are used for pushing, pulling and braking.

Enerpac Enerlauncher is an automatic and synchronous incremental hydraulic tandem launching system with a 800 ton lifting section and an 300 ton push/pull section.



JACK-UP SYSTEMS

The jack-up system is a custom developed multipoint lifting system – synchronically lift and mechanically hold. A typical system setup includes four jack-up units positioned under each corner of a load.



ROTOR REMOVAL AND INSTALLATION SYSTEM

The generator rotor removal and installation system is a custom developed product for removing and installing the rotor (field) in a power plant's generator. The system is designed to comply with the varying dimensions and challenging accessibility of a plant's generator.



CUSTOM HYDRAULIC PRESSES

Our hydraulic presses can be configured to fulfill a broad range of applications. Each press is designed and manufactured according to customer specifications and in cooperation with our engineering team.



SELF-ERECTING TOWER

The Enerpac Self Erecting Tower (ESET) is a self-erecting tower lift system that enables you to build a free standing gantry from ground level. The ESET can be supplied in various capacities and lifting heights and is built with standard modular components, enabling a flexible solution to future project demands.



LAS VEGAS WHEEL

Our expertise has been acknowledged by the world's leading industrial professionals and has contributed to the successful movement of a number of the most recognizable structures on earth. At the time of construction the Las Vegas High Roller was the largest observation wheel in the world. A custom hydraulic drive system was developed to propel the wheel for daily use and was also used to construct the wheel in sections.

FROM SIMPLE TO COMPLEX – LIFTING SOLUTIONS FOR YOUR APPLICATION

For those who do the heavy lifting today, the stakes are high and the challenges complex. We know our customers put their reputations and physical well-being on the line to get the job done right. We take that very seriously.

Backed by a global legacy of ultra-reliable quality and superior precision, Enerpac Heavy Lifting Technology is pushing the industry forward with a wide range of advanced solutions that first and foremost ensure our customers operate safely and productively every day. It isn't about being compliant, or "as good" as the next guy; we outpace the competition by delivering technically superior solutions that are easy to design, safe to use and built to outlast.

CONSULTATIVE APPROACH TO HEAVY LIFTING

From the very first discussion to gain an understanding of your application to solution design, training and ongoing field support of your operators, you will find a structured process and a team of application experts who will advise you towards a successful solution.



SOLUTION CONSULTATION

- Requirements Specifications
- Selecting the Right Solution for Your Application

DESIGN & MANUFACTURING

- Design & Engineering
- Manufacturing Excellence

TESTING & TRAINING

- Quality Assurance
- Operation & Safety Training

ON-DEMAND SUPPORT

- On-the-job Application Engineer Support
- Routine Maintenance & Repair Services

SOLUTION CONSULTATION

- Requirements Specifications
- Selecting the Right Solution for Your Application

Since the late 1950's, Enerpac has been steadfast in their commitment to work closely with customers to understand their lift needs and work-site environment. Not all lifts are the same. There are several factors that must be taken into consideration before recommending the best solution.

APPLICATION CONSIDERATIONS

LOAD CAPACITY

How much weight needs to be lifted, moved and/or positioned?

LIFT HEIGHT

How high does the load need to be lifted? Are there restrictions above or below the load?

TYPE OF LIFT

Will you lift from above or below?

SPACE

How much space is available to complete the task?

TIME

How the job needs to be completed within a set timeframe due to operational or environmental factors.

TRANSPORTATION

Does the load need to be transported as well as being lifted? How far and how often?

TOTAL COST OF OWNERSHIP

What productivity, labor or training costs need to be factored into the solution to make it the best long-term investment.

Because Enerpac engineers have designed solutions for a variety of applications over the years, they are well-equipped to minimize risks and to recommend a simpler solution that others may overlook. Built on a world-class reputation for developing products that meet the most common lifting applications,

once your specifications are in the hands of the Enerpac experts, you are sure to receive a comprehensive recommendation that will save time and money while ensuring safety above all else.



Enerpac has the most complete offering of standard heavy lifting and positioning tools in the market. These products are designed to highest standards of performance and offer great flexibility to meet the demands of even the most challenging applications. Our manufacturing facility adheres to world-class production planning and inventory management to ensure your product arrives at your facility on time as specified.

DESIGN & MANUFACTURING

- Design & Engineering
- Manufacturing Excellence



Design & Engineering

Enerpac engineers are experienced in the latest software, rapid prototyping, failure analysis methods and engineering standards. This allows us to continuously improve and expand our product offering to meet ever changing needs of the market.

- CE, Machinery Directive 2006/42/E
- ASME: B30.1



Assembly & Quality Assurance

- All Enerpac products are assembled by highly trained individuals, working safely and efficiently from start to finish.
- The Hengelo, NL facility that manufactures the Enerpac heavy-lifting equipment holds several quality certifications.
- ISO 9001: 2015
- ISO 3834-2: 2005
- ISO 14001: 2015
- ISO 45001: 2018



Fabrication & Machining

- A dedicated steel fabrication and certified welding facility manufactures product components and support structures for the most demanding heavy-lifting applications.
- Complete in-house production is delivered using the latest CNC and conventional turning machines plus a full range of milling and boring equipment.



TESTING & TRAINING

- Quality Assurance
- Operation & Safety Training

The Enerpac facility, that makes and builds your heavy-lifting equipment, holds several quality system certifications giving you extra confidence in the safety and reliability of your heavy-lifting equipment. Whether your first lift or move is scheduled upon taking delivery of your new equipment or months later, you will have access to the dedicated Heavy-Lifting team to support your training or troubleshooting needs.



Factory Acceptance Testing (FAT)

Customers are invited to witness FAT, often combined with operator training. Under witness of Lloyd's Register, all equipment is functionally tested to maximum capacity, and in many cases up to 125% of rated load. Additional testing to meet standards compliance, government regulations or specific customer requirements are performed and documented at the same time.



Documentation

Upon delivery of your new heavy-lifting equipment, an operator's manual outlines the configuration of your system, detailed operating instructions with safety guidelines, and maintenance recommendations.



Training

Customers who attend factory acceptance training at Enerpac's facility can also receive a day of training on their heavy lifting equipment. Additional training or on-site custom training can also be arranged.



Once you take possession of your new heavy-lifting equipment, you have on-demand access to our field support team. And support continues with ongoing maintenance or system upgrades throughout the life of your assets.

ON-DEMAND SUPPORT

- On-the-job Application Engineer Support
- Routine Maintenance & Repair Services



On-the-Job Field Support

Should you ever require extra support while using your Enerpac Heavy-Lifting system on the job, our dedicated application engineers will work closely to guide your operators on appropriate use of our equipment. And to ensure job safety, they will travel to your job site as needed to ensure your project is completed timely and without incident.



Product Warranty

All Enerpac Heavy-Lifting equipment is built to stringent specifications and built to last. Should you ever encounter a defect in materials or workmanship under normal use, it will be remedied through our standard one-year warranty program.



Maintenance & Repair

Downtime is minimized with fast delivery of repair parts and consumables stocked at several locations worldwide. For those that want the added confidence of specialized technicians, the Enerpac Maintenance & Repair team are ready to perform your maintenance or repair services for you.

