EVOP-Series, Synchronous Lift System

ENERPAC

▼ **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

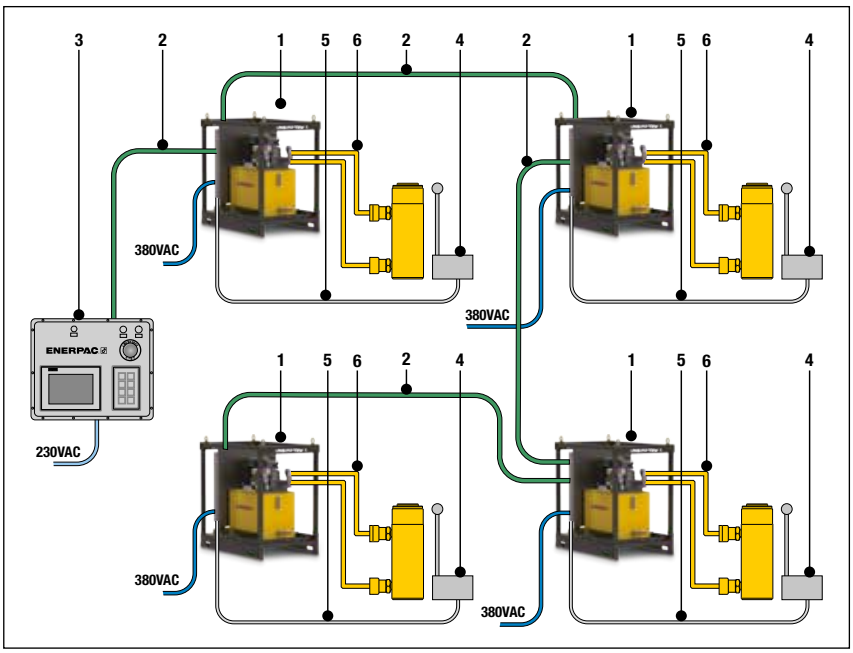
Reservoir Capacity:
40 - 150 litres

Flow at Rated Pressure:
2,1 - 8,0 l/min

Motor Size:
3,0 - 7,5 - 15 kW

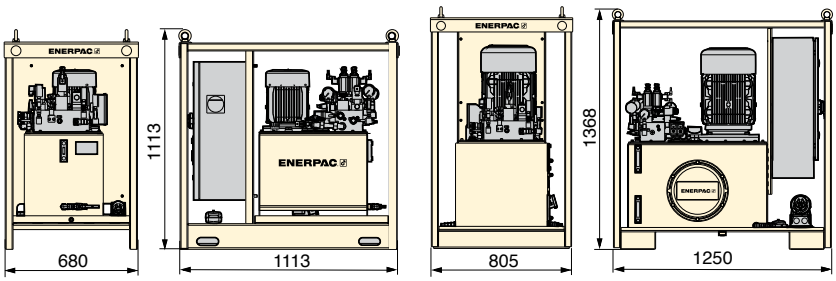
Maximum Operating Pressure:
700 bar

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**

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.

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.

EVOP-Series (Pump-per-Point)

Lifting Points per Pump (cylinder)	Reservoir Capacity (litres)	Oil Flow [1] (l/min) (< 120 bar)	Oil Flow [1] (l/min) (> 120 bar)	Model Number [2] 380 - 415 V, 3 phase, 50-60 Hz	Motor Size (kW)	(kg)
1x	40	11,1	2,1	**EVOP12140W**	3,0	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**.