

▼ EVOP140150J 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 0.040 inch (1,0 mm) between leading and lagging cylinders
- Built-in warning and stop alarms for optimal safety.

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, Stroke Sensor Cables

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

Model Number	Length (ft)	Model Number	Length (ft)
EVO-SC-6	19.7	EVO-SC-25	82



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 of 19.7 and 39.4 inches. Other lengths available on request.

Model Number	Range (in)	Model Number	Range (in)
EVO-WSS-500	19.7	EVO-WSS-1000	39.4



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 (ft)	Model Number	Length (ft)
EVO-COMM-25	82	EVO-COMM-75	246
EVO-COMM-50	164	EVO-COMM-100	328



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

Synchronous Lift System, Pump-per-Point



EVOP-Series Pumps

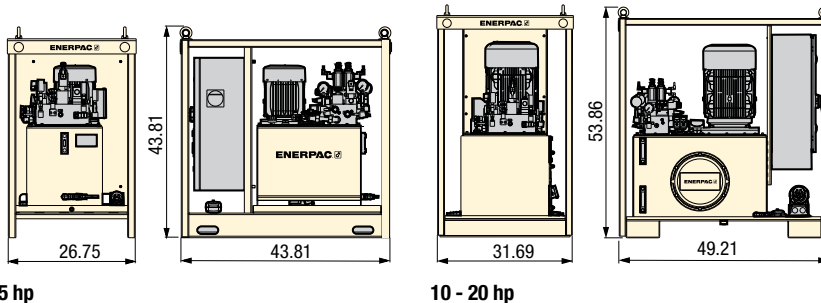
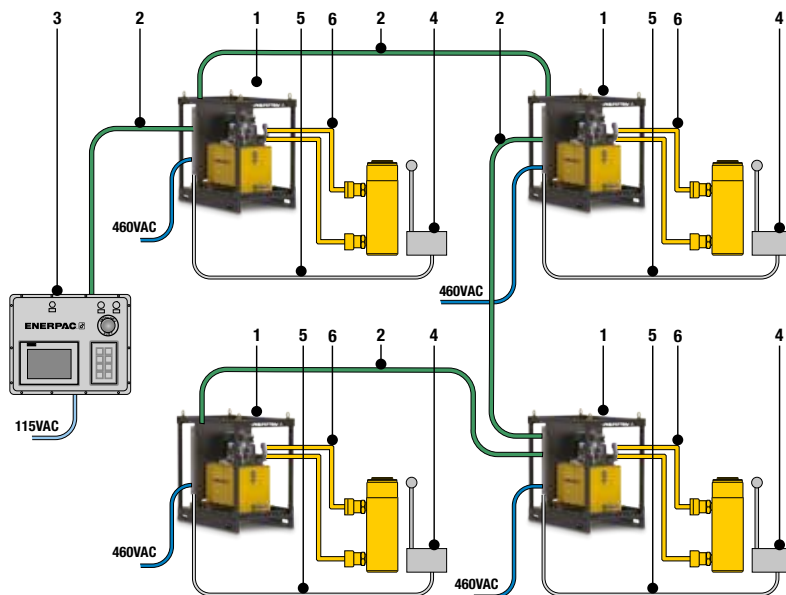
The Enerpac EVOP-Series (Pump-per-Point) synchronous lift system provides industry leading speed and accuracy for 10,000 psi lifting operations.

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 0.040 inch (1,0 mm) between cylinders and smooth operation without the start and stop associated with opening and closing hydraulic valves.

Networked EVOP-Pumps in Multipoint Synchronous Lifting Set-Up



5 hp

10 - 20 hp

EVOP-Series (Pump-per-Point)

Lifting Points per Pump	Reservoir Capacity	Oil Flow ¹⁾ (in ³ /min)		Model Number ²⁾ 440 - 480 V, 3 phase, 60 Hz	Motor Size	(lbs)
		< 1800 psi	> 1800 psi			
(cylinder)	(gal)				(hp)	
1x	10	677	128	EVOP12140J	4	685
1x	40	793	244	EVOP140150J	10	1080
1x	40	1037	488	EVOP180150J	20	1115

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

²⁾ For 380-415 Volt - 3ph - 50-60 Hz change suffix "J" into "W". Example: **EVOP140150W**.

EVOP Series



Lifting Points per Pump:

1x cylinder/pump

Reservoir Capacity:

10 - 40 gallons

Flow at Rated Pressure:

128 - 488 in³/min

Motor Size:

4 - 10 - 20 hp

Maximum Operating Pressure:

10,000 psi

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

Nr.	Model No. & 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



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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