

▼ EVOP140150J Hydraulic Power Unit



- Lifting system to control multiple lifting points
- Each EVOP-Series pump (Pump-per-Point) controls only one lifting point, providing the highest combination of flow rate and 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 alternate methods
- Synchronization controlled via a variable frequency drive (VFD) on the motor, enabling smoother operation and tight accuracy at high lifting speed
- Standard control interface provides easy set-up and control with multiple lifting options
- Accuracy of up to 0.040 inch (1 mm) 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 or multifunctional EVO-Series lift systems.



### EVO-SC-25, Stroke Sensor Cable, 82 feet

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 3.9 to 49.2 in.

Model Number	Range (in)	Model Number	Range (in)
EVO-WSS-100	3.9	EVO-WSS-750	29.5
EVO-WSS-125	4.9	EVO-WSS-1000	39.4
EVO-WSS-375	14.8	EVO-WSS-1250	49.2
EVO-WSS-500	19.7	—	—



### 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

# Synchronous Lifting Systems (Pump-per-Point)



## EVOP Series Synchronous Lift System

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 between cylinders and smooth operation without the start and stop associated with opening and closing hydraulic valves

## EVOP Series



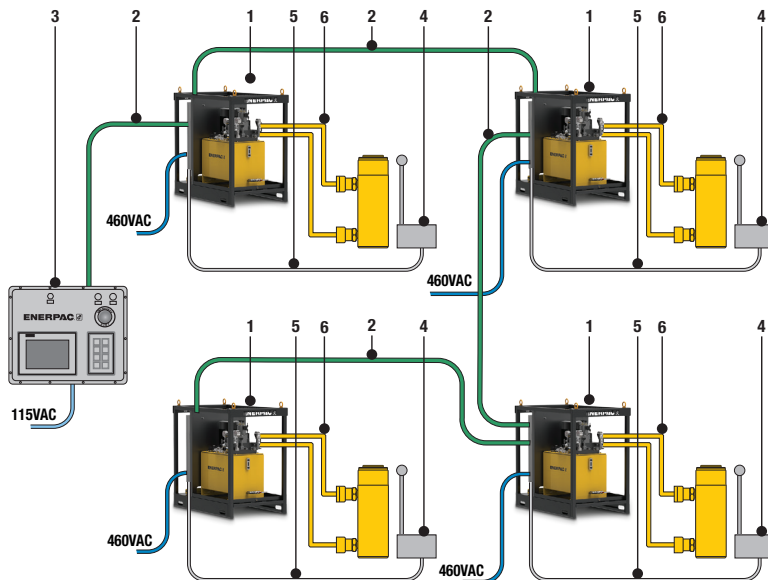
Lifting Points per Pump:  
**1x cylinder/pump**

Reservoir Capacity:  
**10 or 40 gallons**

Flow at Rated Pressure:  
**128 - 488 in<sup>3</sup>/min**

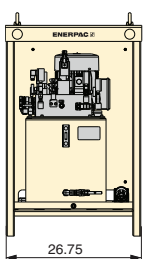
Maximum Operating Pressure:  
**10,000 psi**

### Networked Pumps in Multiple-Point Synchronous Lifting Set-up

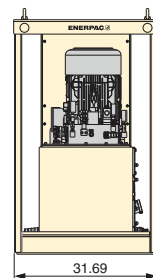
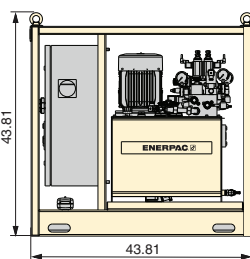


### Networked EVOP-Pumps in Multipoint Synchronous Lifting Set-Up (with double-acting cylinders)

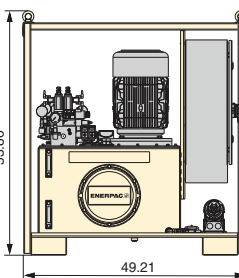
No.	Model No. & Description	Quantity
1	EVOP-Series Pump with Solenoid Valves	1x/cylinder
2	EVO-COMM-XXX Communication Cable	1x/pump
3	CLNC12 Network Control Box	1x /system
4	EVO-WSS-XXX Stroke Sensor	1x/cylinder
5	EVO-SC25 Stroke Sensor Cable	1x/cylinder
6	HC700-Series, Hydraulic Hoses	1x/cylinder



4 hp Pump



10 & 20 hp Pump



### EVOP-Series (Pump-per-Point)

Reservoir Size	Oil Flow per Outlet @ 1800 psi <sup>1)</sup>	Oil Flow per Outlet @ 10,000 psi	Pump Model Number	Motor Size <sup>2)</sup>	Weight
(gal)	(in <sup>3</sup> /min)	(in <sup>3</sup> /min)		(hp)	(lbs)
10	677	128	EVOP12140J	4	685
40	793	244	EVOP140150J	10	1080
40	1037	488	EVOP180150J	20	1115

<sup>1)</sup> First stage high oil flow only available in Manual control mode.

<sup>2)</sup> For 380-415 Volt - 3ph - 60 Hz applications change suffix "J" into "W". Example: EVOP140150W.



### 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.