Accurate Hoisting and Load Positioning
Enhancing a Crane’s Capability

- 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: system warning functions
- Automatic control: fully PLC-monitorized system with programmable functions using touch screen and system warning functions.

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
- Pre-programmed positioning, tilting and aligning.

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.
SyncHoist - High Precision Load Positioning

What is SyncHoist?
Enerpac SHS-Series 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 pre-programmed positioning, tilting and aligning of loads.

• Patented system
• Complete system tested in compliance with European lifting directive and safety requirements.

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 risk.

The SyncHoist system can be used for controlled hydraulic horizontal and vertical material handling.

System management and control
Contact Enerpac for the following options, or other customised stroke, capacity and control configurations.

1. Manual control
   • Valves with manual levers
   • Warnings for thermal motor protection
   • Visual check: oil level, filter indicator.

2. Automatic control
   • Load and stroke monitoring, and stroke control
   • PLC-control and touch screen
   • Solenoid valves with pendant
   • Pre-programmable motions and data recording
   • System warnings for:
     – maximum cylinder load control setting
     – stroke and position control
     – thermal motor protection
     – oil level and filter indicator.

SyncHoist Power Packs
SyncHoist Power Packs are specifically designed to work with the SyncHoist cylinders to ensure proper operation of the system. Contact Enerpac for assistance at integratedsolutions@enerpac.com

Capacity Per Lifting Point:
55 - 85 - 110 ton

Maximum Stroke:
500 - 1000 - 1500 mm

Accuracy Over Full Stroke:
± 1,0 mm

Maximum Operating Pressure:
700 bar