PowerLine™ Shaft Hoist

PowerLine is a line shaft hoist, re-imagined to reduce size, weight, and cost. PowerLine hoists offer a wide range of speeds and capacities, making them versatile performers and excellent choices for retrofits in older buildings. Among its many uses are electric sets, scenery and curtains, and front-of-house lighting sets.

Capability

- Speed: Up to 240 fpm (1.2 m/s)
- Travel: Up to 60 ft. (18.3 m)
- Capacity: Up to 2,500 lb (1184 kg)
- Max batten length: As required
- Custom speeds and capacities available

Features

- Customizable line shaft design that is strong, efficient and versatile
- Fixed or variable speed options to meet your performance needs.
- Compact unit doesn’t require wall or wing space and can be mounted upright or underhung on 10" (254 mm) spacing.
- Simple construction places only vertical loads on the supporting structure without lateral loads.
- Easy to install backbone can be continuous/discontinuous to meet your site conditions.
- Universal joints in the drive shaft promote long life and reliability by allowing various building steel configurations.
- Compact drum fits over standard 10" (254 mm) grid well.
- Helical/worm or helical/bevel gear boxes can be oriented four ways for simple installation in any space.
- Flexible installation — standard hoists can be mounted from beams with flanges from 4 - 11" (102 - 279 mm) wide and from 1/4 - 1" (6.3 - 25 mm) thick. Custom mounting hardware can be provided if needed.

Dimensions

PowerLines are built to meet your requirements so dimensions will vary. Contact us for more details.

- 6 or 8" (152 or 203 mm) welded steel drums offer a wide range of speeds and capacity options to meet your performance requirements.
- Versatile mounting clamps attach to steel that is parallel or perpendicular to the hoist for fast, easy installation without welding.
- High-efficiency green motors meet IEC 60034-30 Efficiency Classes standard.
Safety

- Designed and manufactured by J.R. Clancy, a company with over 130 years of rigging expertise.
- “Fail-safe” motor brakes are spring applied and electrically released.
- Emergency-stop system meets NFPA 79 (Electrical Standard for Industrial Machinery) with ramped stops for high speed equipment to reduce mechanical shock loads.
- Two levels of limit switches with normal travel and over travel switches using separate, redundant circuits for added safety.
- Hold-to-run controls require an operator to be present when movement is taking place in conformance with NFPA 79.
- Touch safe interior of all electrical enclosures guards to prevent contact with live components, per IEC 204-1 Protection.

Options

- Cross groove and slack line detectors
- Load cells
- Position encoder
- Additional limit switches
- Overspeed or electric secondary brake

Control Options

- PowerLine works with the entire range of J.R. Clancy automation consoles or push button controls. It can also interface with any modern control system.

Batten Termination Options

- Trim chain
- Pipe clamp and turnbuckle
- Batten trim plate
- Batten trim clamp

Batten Options

- 1.5" (48 mm) Schedule 40 batton
- 1.5" (48 mm) Schedule 80 batton
- 1.5" (48 mm) Schedule 40 truss batton

Mounting Configurations

- Motor on one end, brake on the opposite
- Motor in the middle, brake on each end
- Motor on each end
Product CAD files and other documents available for download on our website.
www.jrclancy.com/powerline-shaft-hoist.php
PowerLine™ Shaft Hoist

PowerLine Riser — Typical

Power and Wiring Information: PowerLine is available for virtually any 3-phase voltage worldwide. Control wiring is dependent on your control system.

PowerLine Electrical Requirements

<table>
<thead>
<tr>
<th>Model</th>
<th>HP</th>
<th>Current Draw</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>280 - 240 V</td>
<td>440 - 480 V</td>
</tr>
<tr>
<td>018-PL0210</td>
<td>0.75 (5.5 kW)</td>
<td>3.5 A</td>
</tr>
<tr>
<td>018-PL0213</td>
<td>1.5 (1.12 kW)</td>
<td>6.6 A</td>
</tr>
<tr>
<td>018-PL0216</td>
<td>1.5 (1.12 kW)</td>
<td>6.6 A</td>
</tr>
<tr>
<td>018-PL0222</td>
<td>2 (1.5 kW)</td>
<td>7.5 A</td>
</tr>
<tr>
<td>018-PL0224</td>
<td>2 (1.5 kW)</td>
<td>7.5 A</td>
</tr>
<tr>
<td>018-PL1113</td>
<td>5 (3.73 kW)</td>
<td>16.7 A</td>
</tr>
<tr>
<td>018-PL1420</td>
<td>10 (7.5 kW)</td>
<td>30.8 A</td>
</tr>
<tr>
<td>018-PL2423</td>
<td>20 (15 kW)</td>
<td>59.4 A</td>
</tr>
</tbody>
</table>
**PowerLine™ Shaft Hoist**

**Warranty and Support**

**Three-Year Warranty** against defects in materials or workmanship is provided on all J.R. Clancy equipment. Our warranty is contingent on operation by trained personnel and an annual equipment inspection of a J.R. Clancy authorized technician.

**24/7 factory technical support** with additional service and assistance provided by a worldwide network of J.R. Clancy authorized dealers.

**Inspection and maintenance** are available through J.R. Clancy’s T.I.M.® (Training, Inspection, Maintenance) Program.

**Ordering Information**

PowerLine is available in several standard configurations or can be customized to your needs. Contact Clancy to discuss optimal configurations or custom solutions.

### Models

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Hoist Speed</th>
<th>Hoist Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>018-PL0210</td>
<td>20 fpm (0.1 m/s)</td>
<td>1,000 lb (454 kg)</td>
</tr>
<tr>
<td>018-PL0213</td>
<td>20 fpm (0.1 m/s)</td>
<td>1,250 lb (567 kg)</td>
</tr>
<tr>
<td>018-PL0216</td>
<td>20 fpm (0.1 m/s)</td>
<td>1,600 lb (726 kg)</td>
</tr>
<tr>
<td>018-PL0222</td>
<td>20 fpm (0.1 m/s)</td>
<td>2,150 lb (975 kg)</td>
</tr>
<tr>
<td>018-PL0225</td>
<td>20 fpm (0.1 m/s)</td>
<td>2,500 lb (1184 kg)</td>
</tr>
<tr>
<td>018-PL1113</td>
<td>0–110 fpm (0–0.56 m/s)</td>
<td>1,300 lb (590 kg)</td>
</tr>
<tr>
<td>018-PL1420</td>
<td>0–140 fpm (0–0.71 m/s)</td>
<td>1,950 lb (885 kg)</td>
</tr>
<tr>
<td>018-PL2423</td>
<td>0–240 fpm (0–1.2 m/s)</td>
<td>2,300 lb (1043 kg)</td>
</tr>
</tbody>
</table>

Custom speeds, capacities and options available.

### Cable and Drum Options

<table>
<thead>
<tr>
<th>Options</th>
<th>Lift Line</th>
<th>Drum Diameter</th>
<th>Max. Load/Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 1</td>
<td>1/4&quot; (6.3vmm)</td>
<td>7-1/2&quot; (190 mm)</td>
<td>750 lb (341 kg)</td>
</tr>
<tr>
<td>Option 2</td>
<td>3/16&quot; (4.8vmm)</td>
<td>5-1/2&quot; (140 mm)</td>
<td>500 lb (227 kg)</td>
</tr>
</tbody>
</table>

Additional speeds, capacities and options available.

**Additional Information**

For more information on PowerLine, visit [www.jrclancy.com](http://www.jrclancy.com) to access:

- Detailed structural loading
- Specifications
- Electrical risers diagrams