

PowerAssist 018-PA Single Purchase

Award Winning Design

2006 PRODUCT OF THE YEAR
Live Design International

2006 PRODUCT OF THE YEAR
ESTA Dealers' Choice Award-Equipment

US Patents 7,264,228 7,275,733

Automate Your Counterweight Sets

Tired of heavy counterweights and long climbs to the loading gallery? Convert your manual rigging sets to an automated system simply and economically with PowerAssist.

Easier & Safer

Besides making your work easier, you'll no longer need to load and adjust the counterbalancing weights. The motor handles the out-of-balance load, so you don't have to.

Everything You Need to Automate Your Rigging

PowerAssist single axis units are extremely compact and can be easily installed under your existing locking rail. The hoist takes the place of an existing floor block and rope lock, and can be placed between two manual sets on 6" (152 mm) centers. It's the perfect way to automate your lighting sets or ceiling panels!

Controls

A simple, push button control station with reversing starter replaces your rope lock. Or, the SureTarget™ lets you program four preset target positions. All control stations are equipped with key-operated switches to prevent unauthorized use. PowerAssist hoists can also be used with SceneControl® 500, Altus™, and SureTarget™ 10 automation consoles that allow you to write cues for complete productions.

Versatility

The PowerAssist hoist operates at a speed of 25 fpm (0.13 m/s), with a system capacity of 0 - 2000 lbs. (0 - 907 kg), without the need to adjust weights.

Ordering Information

Model	Speed	System Capacity	HP	Travel	Weight
018-PA Single Purchase	25 fpm 0.13 m/s	2000 lbs. 907 kg	1.5 1.12 kW	65' 19.8 m	350 lbs. ea. 159 kg
018-PADP Double Purchase	25 fpm 0.13 m/s	2000 lbs. 907 kg	1.5 1.12 kW	65' 19.8 m	350 lbs. ea. 159 kg

All units are supplied with hoist, push button controller, and drive line. Double purchase units include a replacement arbor and head block.

Hoists require 3 phase power at 208, 230, or 460 VAC. Please confirm voltage at time of ordering (380 and 575 VAC and 50 Hz hoists are available for international projects).

Application drawings and more information are available for download on our web site.



Drum Hoist

- Drum hoists are the simplest and most widely used motorized hoists. They are usually a dead haul type of hoist, where the entire load is supported by the hoist, without the use of counterweights.
- The hoist has a drum long enough to accommodate all of the lift lines required for that particular set. The drum is helically grooved so that the lift lines wrap neatly in a single layer, to avoid damage to the wire rope.
- Drum hoists can be located on the grid, galleries, or in a separate motor room. A head block and loft blocks may be used to route the lift lines to the batten.
- Fixed and variable speeds in many voltage options are available.

Key Features

- For quality assurance the motor, brake, and gearbox are an integrated unit from a single manufacturer. For added reliability and safety a continuous shaft links the brake, motor armature, and the first stage pinion gear without the need for couplings.
- The motor brake is spring applied and electrically released, for “fail safe” operation.
- The drum is helically grooved to carry a single layer of cable, for long cable life and reliable operation.
- Four limit switches are provided for normal end-of-travel and over-travel protection. The two circuits operate separately for added safety.
- Please call with questions or orders. We'll work with you to provide hoists to meet your schedule and needs.

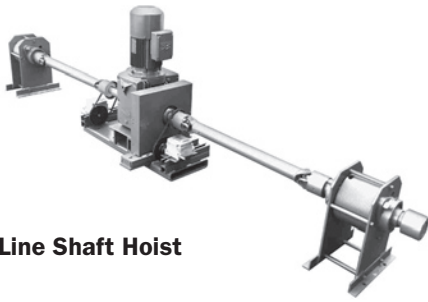
Ordering Information

We're pleased to provide you with quotes for our hoists. Please provide the following information:

- Capacity
- Speed (fixed or variable speed, feet per minute [meters per second])
- Travel
- Number and diameter of lift lines
- Any special requirements
- Hoists require 3 phase power at 208, 230, or 460 VAC. Please confirm voltage at time of ordering (380 and 575 VAC and 50 Hz hoists are available for international projects).

Options:

- Overspeed and load brakes
- Dual drums
- Slack line detector
- Cross groove detector
- Keeper rollers
- Load cells
- Position encoders
- Additional limit switches



Line Shaft Hoist

- Line shaft hoists are self-contained units with a separate drum for each lift line.
- No wall or floor space is required for the hoist, nor are head blocks or loft blocks required.
- Due to its design, the load placed on the building structure is a vertical load only, without the resultant and compression loads associated with conventional rigging.
- Line shaft hoists are particularly useful for renovations and in locations with limited space.
- In order to compensate for movements in the structural steel as loads change, J.R. Clancy line shaft hoists include universal joints in the shafting between the drums. This provides increased reliability.
- Fixed and variable speeds are available.

Key Features

- For quality assurance the motor, brake, and gearbox are an integrated unit from a single manufacturer. For added reliability and safety a continuous shaft links the brake, motor armature, and the first stage pinion gear without the need for couplings.
- The brake is spring applied and electrically released, for “fail safe” operation.
- Drums are helically grooved to carry a single layer of cable, for long cable life and reliable operation.
- Four limit switches are provided for normal end-of-travel and over-travel protection. The two circuits operate separately for added safety.
- Hoists can be furnished with continuous channel bases or with individual bases for each gearmotor and drum.
- Please call with questions or orders. We'll work with you to meet your requirements and schedule.

Ordering Information

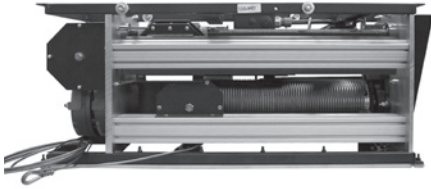
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- Travel
- Number and diameter of lift lines
- Any special requirements
- Hoists require 3 phase power at 208, 230, or 460 VAC. Please confirm voltage at time of ordering (380 and 575 VAC and 50 Hz hoists are available for international projects).

Options:

- Overspeed and load brakes
- Dual drums
- Slack line detector
- Cross groove detector
- Load cells
- Position encoder
- Additional limit switches

**Point Hoist**

- Point hoists offer the flexibility of rope spot lines with the speed and capacity of a motorized set. The ultimate in flexibility, point hoists offer an individual hoist for each lift line. Also known as motorized spot lines, point hoists provide a versatility that is not available from rows of parallel battens. With individual control of each lift line, you can twist and turn scenic elements for effect. Or, multiple hoists can be synchronized, so that several point hoists can lift a single scenic piece.
- Widely used in major opera houses and performing arts centers, point hoist systems offer a new, adaptable approach to rigging that is becoming increasingly popular in all venues.
- Point hoists are designed and built to meet specific user needs. Point hoists used in theatres or opera houses for scenery suspension typically have capacities of 250 - 1,000 lbs. (113.4 - 453.6 kg) with top speeds from 180 to 400 fpm (0.9 to 2.0 m/s).
- Contact us for assistance in designing the hoist system that will meet your requirements.

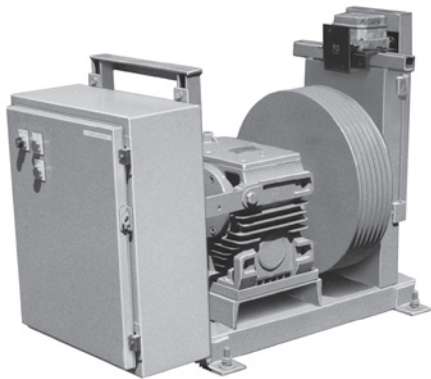
Ordering Information

We're pleased to provide you with quotes for our hoists. Please provide the following information:

- Capacity
- Speed (fixed or variable speed, feet per minute [meters per second])
- Travel
- Number and diameter of lift lines
- Any special requirements
- Hoists require 3 phase power at 208, 230, or 460 VAC. Please confirm voltage at time of ordering (380 and 575 VAC and 50 Hz hoists are available for international projects).

Options:

- Overspeed and load brakes
- Slack line detector
- Cross groove detector
- Keeper rollers
- Load cells

**Pile Up Drum Hoist**

- Pile-up or Yo-yo hoists allow the lift line to wrap on top of itself in a narrow slot. This type of hoist is normally used for low loads in applications such as banner hoists. They may also be used when there are space problems that preclude the use of drum-type hoists.
- The wire rope winds on top of itself, changing the effective diameter of the drum, causing the lifting speed to change as the drum turns. The change in speed may make these hoists unacceptable for some applications. There is some crushing of the wire rope as it winds on itself, leading to higher wear than a wire rope in a grooved drum.

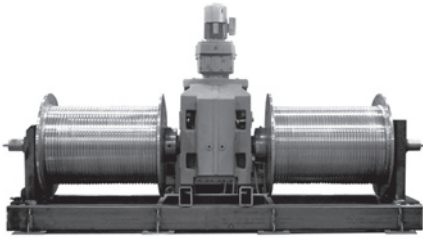
Ordering Information

We're pleased to provide you with quotes for our hoists. Please provide the following information:

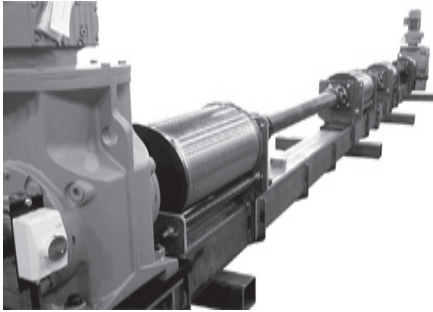
- Capacity
- Average speed (fixed or variable speed, feet per minute [meters per second])
- Travel
- Number and diameter of lift lines
- Any special requirements
- Hoists require 3 phase power at 208, 230, or 460 VAC. Please confirm voltage at time of ordering (380 and 575 VAC and 50 Hz hoists are available for international projects).

Options:

- Load brakes
- Slack line detector
- Load cells
- Position encoder
- Additional limit switches
- Custom controls can be provided to allow for accurate positioning and allow constant cable speeds.



Dual Drum Hoist
3 fpm (.015 m/s),
13,500 lbs. (6,123 kg) capacity



Self climbing media screen hoist
with 34,000 lbs. (15,422 kg)
lifting capacity

Custom hoists are available in almost any speed and capacity to meet your specific requirements. Tell us about your requirements and we'll work with you to develop the hoist you need.

In addition to the hoists shown, here are a few of the types of custom hoists we've built for clients:

- A gantry crane in Bass Hall (Houston, TX) to move a 100,000 lb. (45,359.2 kg) folding acoustic ceiling for rapid changeovers from theatrical use to concert hall mode.
- Hoists to move the 50 ton (45.4 metric ton) proscenium "eyebrow" in the Oklahoma Civic Center Music Hall.
- In Miami's Carnival Center concert hall custom hoists move the massive (130,000 lbs. [58,967 kg]), three-part acoustic canopy to alter sound reflection within the hall.
- Banner hoists to raise and lower acoustic banners in the Omaha Performing Arts Center, Washington D.C.'s Shakespeare Theatre, the San Francisco Conservatory, and many others.
- The Seattle Opera uses a 600 fpm (3 m/s) curtain hoist to ensure the main curtain can clear the proscenium in 6 seconds.
- The Strathmore Concert Hall has 43 custom hoists to move acoustic panels which may be raised, lowered, and tilted side to side and front to back to create a completely configurable acoustic shell.

Ordering Information

We're pleased to provide you with quotes for our hoists.

Please provide the following information:

- Capacity
- Speed (fixed or variable speed, feet per minute [meters per second])
- Travel
- Number and diameter of lift lines
- Any special requirements
- Hoists require 3 phase power at 208, 230, or 460 VAC. Please confirm voltage at time of ordering (380 and 575 VAC and 50 Hz hoists are available for international projects).

Options:

- Overspeed and load brakes
- Dual drums
- Slack line detector
- Cross groove detector
- Keeper rollers
- Load cells
- Position encoder
- Additional limit switches

Sturdy Aluminum Backbone

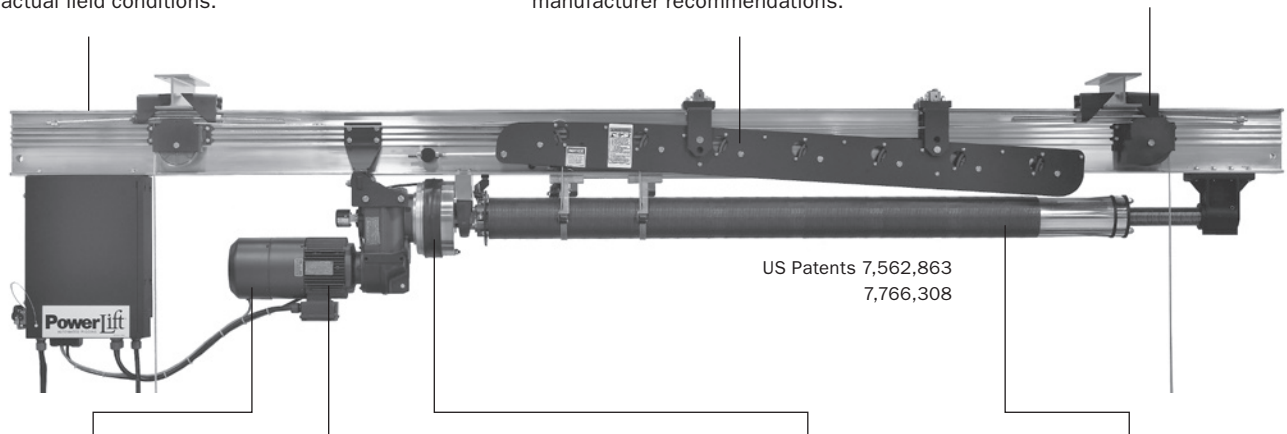
Adapts safely to your mounting requirements—no external strengthening members required. Robust steel mounting clips easily adjust to meet actual field conditions.

Trouble-free Head Block

Nylatron sheaves offer proven reliability for long, trouble-free life. Sheave and drum diameters meet or exceed wire rope manufacturer recommendations.

Versatile Mounting Clips

Encompass a tremendous range of beam spacing and flange widths.

**Quiet, Secure Braking**

Engineered specifically for use in theatres.

Quiet, Reliable Gearmotor

Gearbox, motor, and primary brake are an integrated unit providing proven reliability. It's been our standard for 30 years—and for thousands of hoists! Iron case for vibration and noise control.

SureBrake® II — Added Assurance and Protection

The failsafe electric brake system monitors the speed of the drum, automatically stopping the hoist if it exceeds either the commanded speed or maximum speed.

Compact Moving Drum

Allows for a small, efficient hoist. Preloaded chase rollers ensure that cables stay in grooves.

Affordable, Reliable Automated Rigging

Automated rigging greatly enhances the impact of your productions with seamless scenery changes and dramatic movements. PowerLift hoists are in use in schools, universities, and professional theatres worldwide.

Safety & Simplicity

- Predictable, consistent scenery movements at every performance with SceneControl®, Altus™, and SureTarget™ consoles.
- Dual-brake system to ensure reliable stops and holds loads securely for long periods.
- No need to handle counterweight or climb to loading galleries.
- J.R. Clancy has built moving drum hoists for 50 years, resulting in compact hoists that free up backstage space.
- PowerLifts are ETL Listed.
- PowerLifts can be provided with optional load monitoring to stop movement in case of overload or underload, and to display the lifted load.

Mounting

PowerLifts can be mounted vertically on the fly tower wall, minimizing space requirements. Horizontal mounting is also available. Access to the PowerLifts is required for mandatory OSHA maintenance and inspection.

A Family of Hoists to Meet your Performance Requirements

The PowerLift family of hoists gives you the choices you need to meet your rigging requirements:

- **E-series Performance Hoists**

Five variable speed models offer combinations of speeds and lifting speeds that let you make subtle changes, or fast dramatic moves — and anything in between.

- **T-series Targeted Hoists**

A fixed speed hoist for your lighting and other utility sets, with four programmable stops for accurate, repeatable positioning.

Modifications

We can provide double purchase PowerLifts for higher capacity and travel of up to 30' (9.15m). Single purchase PowerLifts with 8 lift lines and 49' (14.9m) of travel (with the same load capacity as the 7-line version) are also available.





PowerLift Automated Hoist 018-P0220VE

US Patent 7,562,863
7,766,308



Intertek

3167743
Conforms to UL STD 1340

Performance, Variable Speed Automation

Movement on stage is part of the excitement of live performance. These five variable speed models offer combinations of loads and lifting speeds selection to provide the action you need. Variable speed hoists let you make subtle changes, or fast dramatic moves — and anything in between. If your theatre is used for dramas or musicals, you'll want the Performance Line. Variable speed up to 180 fpm (0.9 m/s) and capacities up to 2,000 lbs. (907 kg).

Ordering Information

Model	Speed	Capacity	HP	Travel	Weight
018-P0220VE	0 - 20 fpm 0.0 - 0.1 m/s	2000 lbs. 907 kg	1.5 1.12 kW	63' 19.2 m	750 lbs. ea. 340.2 kg
018-P1212VE	0 - 120 fpm 0.0 - 0.6 m/s	1200 lbs. 544 kg	5.0 3.73 kW	63' 19.2 m	770 lbs. ea. 349.3 kg
018-P1220VE	0 - 120 fpm 0.0 - 0.6 m/s	2000 lbs. 907 kg	7.5 5.6 kW	63' 19.2 m	800 lbs. ea. 363 kg
018-P1812VE	0 - 180 fpm 0.0 - 0.9 m/s	1200 lbs. 544 kg	7.5 5.6 kW	63' 19.2 m	800 lbs. ea. 363 kg
018-P1817VE	0 - 180 fpm 0.0 - 0.9 m/s	1750 lbs. 794 kg	10 7.46 kW	63' 19.2 m	800 lbs. ea. 363 kg

These units are used with the SceneControl®, Altus™, or SureTarget™ 10 consoles, allowing accurate positioning. All units have up to 7 lift lines. Hoists require 3 phase power at 208, 230, or 460 VAC. Please confirm voltage at time of ordering (380 and 575 VAC and 50 Hz hoists are available for international projects).

Options:

Model	Description
018-PLLOAD	Load monitoring option
014-933	Cover

Application drawings and more information are available for download on our web site.



Targeted, Fixed Speed Automation

When you need accurate, repeatable positioning, this ingenious fixed speed hoist is the economical solution. The SureTarget™ controller lets you set four preset stops — ideal for your lighting and other utility sets. T-series hoists can be used with cable management for your front-of-house lighting, house lighting, or onstage lighting sets. SureTarget moves sets to their preset position exactly, without the need for guesswork or bumping and joggling a set in to the right spot.

Ordering Information

Model	Speed	Capacity	HP	Travel	Weight
018-P0220T	20 fpm 0.1 m/s	2000 lbs. 907 kg	1.5 1.12 kW	63' 19.2 m	750 lbs. ea. 340 kg

This unit is provided with the SureTarget controller. All units have up to 7 lift lines. Hoists require 3 phase power at 208, 230, or 460 VAC. Please confirm voltage at time of ordering (380 and 575 VAC and 50 Hz hoists are available for international projects).

Options:

Model	Description
014-933	Cover

- Cable handling systems, including pantographs, cable reels, or cable cradles.

Application drawings and more information are available for download on our web site.

PowerLift Automated Hoist 018-P0220T

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