

HEVI-LIFT G-SERIES HOIST

**RELIABILITY
AND VALUE**



HEVI-LIFT® G-SERIES WIRE ROPE HOIST

Satisfies Even the Most Demanding Applications

The P&H Hevi-Lift® G-Series Wire Rope Hoist is engineered for flexibility, reliability, safety, ease of maintenance and long life. It is designed with you in mind, offering outstanding quality and value. Compact and powerful, the modular hoist design is easy to apply in countless customizable solutions.

1 Hoist Gearbox

- Gearing
 - Designed and manufactured to high quality AGMA 12 specs
 - Ground and hardened gearing
 - Quiet and smooth operation
 - Long life
- Synthetic oil splash lubrication

2 Overload Limit (standard)

- Continuous electronic monitoring of loads
- Limiting maximum load by means of electronic cut off mounted in dead end

3 Controls

- Two speed hoist and trolley as standard
- Smartorque® adjustable frequency control available
- Condition monitoring, as standard, protects hoist components such as motors from overheating during severe or abusive operations
- Common voltages available, 230, 460 and 575
- Enclosure is designed to protect against dust, falling dirt and dripping non-corrosive liquids

4 Rope Guide

- Keeps rope seated in drum grooves for extended rope life
- Enclosed, cast iron rope guide (not plastic)
- Constructed of material suitable for high temperatures
- Features 360° rope tensioning spring for controlling slack cable
- Operates independent from upper and lower geared limit switches

5 Motor

- Heavy-duty hoist motors with 60% duty cycle
- Designed for high duty cycle and up to 360 motor starts per hour
- Dust tight/water tight enclosure, protects against dust, falling dirt and dripping non-corrosive liquids
- Efficient cooling of motor, maintenance-friendly
- Ribbed frame and fan cooled for longer life
- Class F insulation

6 Brakes

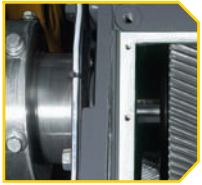
- Low-maintenance, asbestos-free brake
- No adjustment necessary
- Long service life ensured by oversized lining and electronic brake control
- Brake easily accessible from end of hoist motor
- Dust tight/water tight enclosure, protects against dust, falling dirt and hose directed non-corrosive liquids
- Features 200% braking torque
- Direct current (DC) actuation for cooler operation

7 Drum/Reeving

- Optimized drum sheave diameter ratios meet HMI and CMAA recommendations
- Flexible and long-life wire rope
- True vertical lift is a standard option
- Easy access to drum for rope replacement
- Flexible rope exit angles for multi-hook applications

A Heavy Duty Performer

Standard Features



Hoist Gearbox

All gears totally enclosed and running in an oil bath with synthetic lubricating oil for superior gear life and overall performance.

High Quality, helical cut, hardened and ground AGMA 12 gearing for quiet operation. A smoother and longer life resulting in maximized uptime.



Hoist Brakes

The standard hoist brake is rated for 200% minimum torque (load holding ability). It is DC (direct current) electric released and (fail safe) spring set.

DC brakes offer better load positioning capability than AC (alternating current) designs. Less coil heating in DC brakes also allows cooler operation.

Totally enclosed brake in a dust tight/water tight housing that protects against dust, falling dirt, and hose directed non-corrosive liquid, keeping contaminants out of the brake ensuring safe consistent stops.



Wire Rope

Extra flexible steel core rope designed with minimum safety factor of 5:1. Rope dead end connections are made using standard clamps, eliminating special swaged type fittings which allows for easy sourcing and

rope replacement. Connection at the drum leaves three safety wraps of the rope, plus redundant clamps.

Wire Rope Sheaves

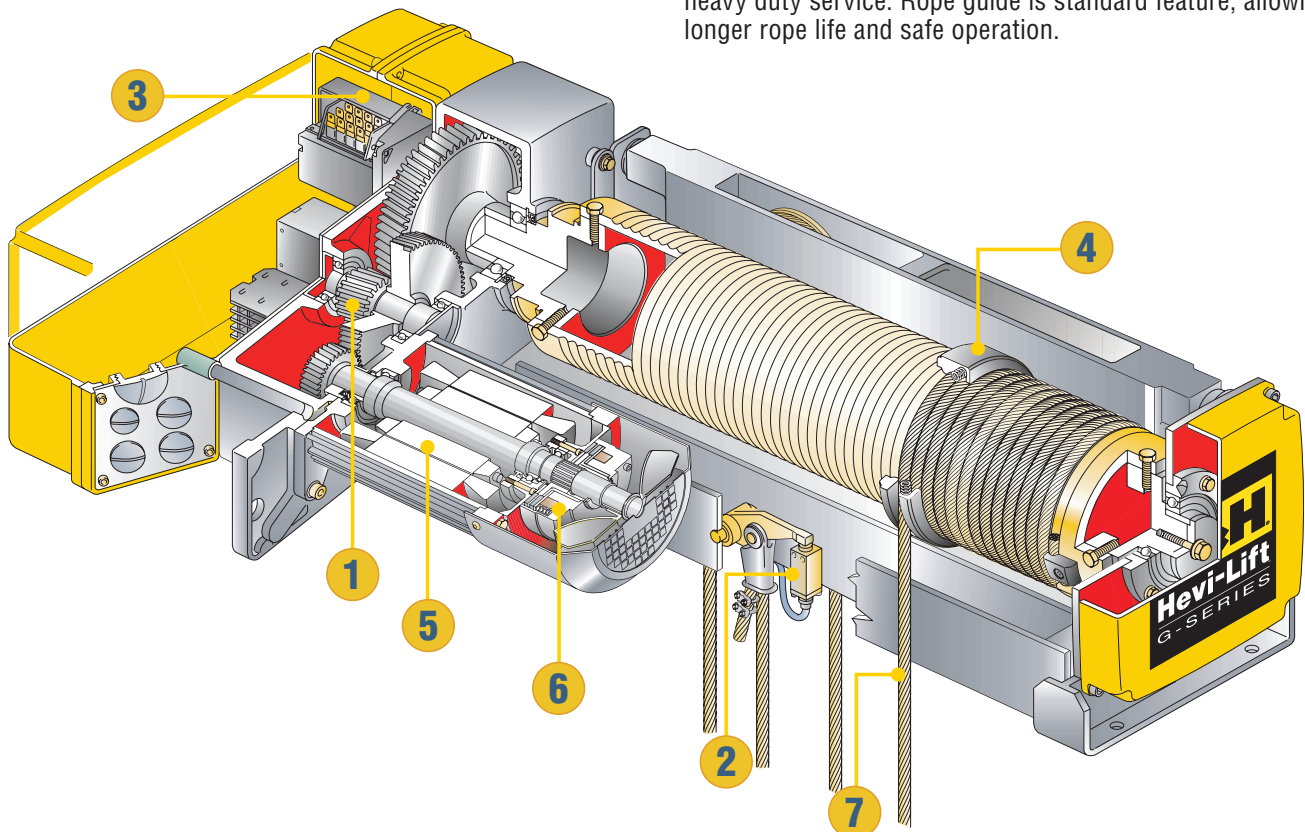
Made from ductile cast iron which run on smooth anti-friction bearings. All sheave diameters are generously proportioned and exceed both HMI H4 and CMAA Class D standards for heavy duty service.



Drums

Thick wall steel tubing, fine machined grooved with a radius that approaches 50% of the rope depth. Drum diameter to rope diameter ratios exceed requirements for both HMI H4 and CMAA Class D standards for

heavy duty service. Rope guide is standard feature, allowing for longer rope life and safe operation.



Optional Features

- Drum brake
- Weighing systems
- Smar torque® Adjustable Frequency control
- Trolley travel limit switches
- 4-element geared limit switch
- Individual / multiple hoist with combined control
- Load displays
- Sister hook
- Festoon tow arm
- Special paint (outdoor, maritime, or chemically aggressive environmental)
- NEMA 4 / NEMA 4X / outdoor service

Special Applications

- Explosion proof
- Extra long lifts
- High temperature
- Dual electric brakes
- Multiple point of lift
- Base mount
- Ceiling mount
- Winch configurations
- Curved track
- Capacities up to 110 ton



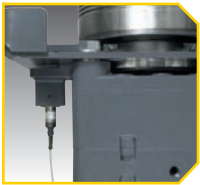
Controls

Two speed hoist and trolley control is standard. Low speed for precise positioning and high speed for production.

All control contactors are oversized to be suitable for HMI H4 and CMAA Class D heavy duty service as standard.

All controls include an electronic condition monitoring module that provides exceptional motor monitoring, thermal protection and adjustable jogging protection at NO extra cost.

Control enclosures are dust tight/water tight protecting against dust, falling dirt and dripping non-corrosive liquids.



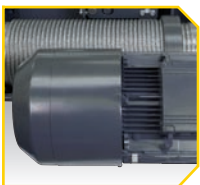
Overhead Limit

Optional overload limit with settings available from 110% to 125% of rated capacity.

Travel Limit Switches

Hoist travel switches meet OSHA and ANSI standards.

Geared type upper and lower hook travel limit switch housed in the control enclosure PLUS a block actuated, lever operated upper travel limit switch for extra safety against dangerous "two blocking".



Motors

Robust, 60% duty-cycle hoist motors for longer on-time operation.

Standard 2-speed motors are parallel rotor for consistent "Air Gap", eliminating damaging high inrush currents of taper rotor designs.

All motors supplied standard with Class F insulation and over-temperature shutdown protection.

All motors are totally enclosed fan cooled for long life and reduced maintenance costs.

Optional: Motors used with Smar torque® Adjustable Frequency controls include an encoder and separate blower fan for extended operation at slow "creep" speeds.

Hevi-Lift G-Series Wire Rope Hoist

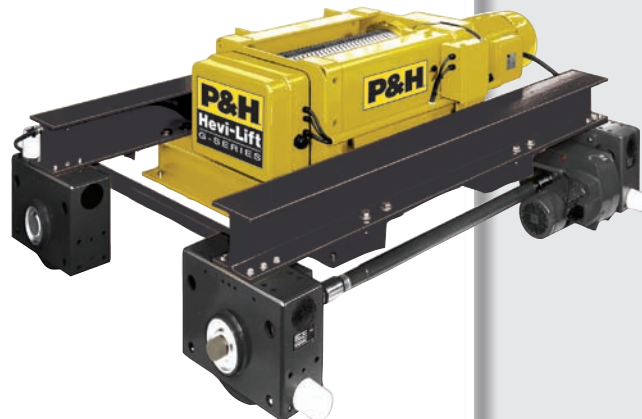
Monorail Hoist (up to 25-ton)

- Single or double reeved
- These standard monorail configurations offer low headroom (extra hook height and lift) as standard
- The high hook position is one of the best in the industry
- Trolley wheels are driven on both sides of the beam for balanced traction
- Trolley drive gears and wheels are pre-lubricated
- Trolley gear enclosures retain lubrication for reduced maintenance and improved gear life
- Trolley spacing is easily adjusted to fit a variety of beam sizes
- Two speed trolley motors are standard
- Safety drop lugs are a standard feature
- Rating up to HMI H4 and CMAA Class D



Top Running Trolley (up to 25-ton)

- Single or double reeved
- Double Girder configured for better crane stability
- Trolley frames are specially designed to ensure all four wheels rest on the crane girder and share the load
- All gearing is enclosed to retain lubricant
- Designed to offer the best high hook dimensions
- Trolleys available in ratings up to HMI H4 and CMAA Class D



Top Running Trolley (30 to 110-ton)

- Extra high-capacity / duty capability
- Compact hoist design
- Single or double reeved
- Trolleys available in ratings up to HMI H4 and CMAA Class D

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