



ELECTRIC WIRE ROPE HOIST **PWRH**

Electric Wire Rope Hoist



Capacities between 1,000 kg and 80,000 kg

Lifting speeds from 0.4 - 10 m/min
single-speed, two-speed,
frequency-controlled

2 or 8 rope falls
Reeving, 2/1, 4/1, 4/2, 6/1, 6/2 and 8/2

PWRH-S

MONORAIL ELECTRIC WIRE ROPE HOISTS | PWRH-S

Standard configuration:

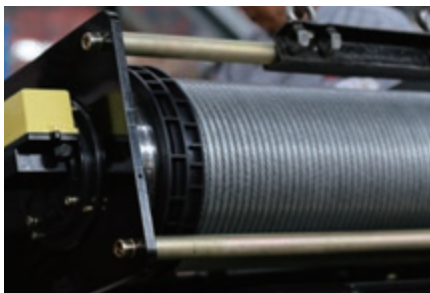
- Two-speed pole-changing hoist motor with bimetal sensor
- DC disk brake, maintenance-free, 4-stage geared limit switch with pre-switch-off and hoist protection in the event of phase reversal
- Electromechanical overload protection
- Travel motor with variable speed: 5 to 20 m/min (hoist with trolley)
- Standard power supply: 380V/400V/415V/50Hz 440V/460V/60Hz
- Control voltage 48V (without main contactor and fuses/option in crane package)
- Motor protection IP55 / insulation class F

- Without control unit (option in crane package)
- Load hook with hook safety catch
- Rubber buffer for the electric trolley
- Fall protection
- Robust rope guide
- Hoist design according to FEM/ISO
- Test certificate, hook certificate, rope certificate, operating and maintenance instructions, overview drawing

Options:

- Non-standard power supply
- Crane package (crane control)
- Intelligent monitoring module, load spectrum memory
- Hoist motor for variable speed
- Class H motor
- Motor protection class IP66

- Outdoor application
- Heating for motor/hoist
- Control cabinet
- Stainless steel control cabinet
- Forced cooling fan, auxiliary fan
- Radio remote control
- Synchronization
- Load measurement
- Load display
- Load totalization
- Hoists as "True Vertical" version
- Anti Sway (pendulum damping)
- Stainless steel wire rope
- Crane package (crane control, trailing cable systems, endcarriages including trolleys)



Compact structure, low weight, low wheel load, maximum space utilisation and high efficiency.

The new technology guarantees optimised product dimensions and enables the most compact structure with the premise of high efficiency. Within the same installation and the same working area, PLANETA - PWRH-S electric wire rope hoists can cover the maximum working area, maximising the use of the internal space

of the installation. By adopting the PLANETA specifications in the construction of the building structure, the height and load resistance requirements can be minimised, resulting in significant savings in investment costs in building construction and civil engineering.

Quality components - safe, reliable and durable

High-quality components are the basis for the outstanding quality of our products. From the hoist motor to the gearbox, the drum, the cable, the electrical components and the structural elements, PLANETA spares no expense in the manufacture of each individual part, as the desired performance and quality depend on the quality of each individual component.

Precise positioning, high efficiency

High-quality drive units ensure safe, smooth and efficient operation. Hook travel has been minimised thanks to the compact design. The standard configuration with two-speed hoist control, optionally with inverter control, ensures efficient crane operation and improves logistical efficiency in the workshop so that PLANETA customers' plans can be realised as planned.

Performance monitoring makes it easy to recognise potential problems

Various control and protection functions ensure that the crane works safely and reliably during operation. The operation control unit can record the operating status of the electric hoist, the motor operating status and the safe working cycle in detail and send error messages in advance. All recorded data can be used in service and help service personnel to identify the root causes, making regular maintenance work much easier.

Modular design, simple and low maintenance costs

The modular design concept permeates the entire product development process, ensuring the standardisation and replacement of components and significantly reducing product maintenance costs. All of the company's product lines have a complete stock of spare parts. Our professional service team is committed to providing our customers with timely customer service to help them solve problems without hassle.



Drum

Use seamless steel tube as raw material and processes it by numbers of working procedure. Advanced processing methods to ensure concentricity of the drum the depth of rope groove is in compliance with the FEM standard.



Trolley Drive Unit

Motors include F class insulation and IP55 degree of protection as standard with a special inverter insulation. This motor's ED is 40 %.



Electrical System

The easy-to-service control system has the multiple safety protection devices to ensure equipment safe. IP54 protective grade. Quick connector (plug and play) reduces installation and maintenance and work to minimum.



Monitoring Unit

The electrical cabinet on the hoist may contain the condition monitoring unit that supervises and safe operation of the hoist. The collects data on functions that affects safety and calculates the remaining time in the Safe Working Period (SWP) during which the hoist can operate safely. It has the practical and friendly human-machine interface and easy operation.



Wire Rope

Wire rope of high-performance with tensile strength up to 2160MPa. The surface with galvanized processing for corrosion prevention effectively. With good flexibility to ensure wear resistance of the wire rope and prolong its service life.



Lifting Drive Unit

Double winding asynchronous motors, aluminium round frame 60 % duty factor and tropicalized as a standard for greater longevity. IP55 protection, F class insulation, B class heating, with over temperature protection. Electromagnetic brake, maintenance free in normal use the break lining has been designed for the hoist life. Easy access to the air-gap measuring. The hoisting gearbox comprises multistage gear transmission. Lightweight gear units with silent running and hard tooth-surface gears deliver the torque required.



Rope Guide

Light weight.
Good wear resistance.
Prevent wire rope from skipping and loosening to off-groove.



Lifting Gear Limit Switch

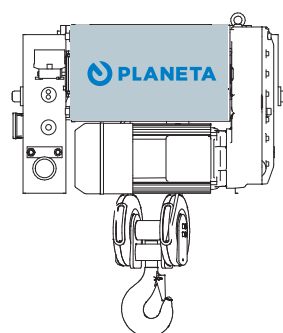
The limit switch with 4 cams can be accessed on the gear unit and is used for managing the upper and lower limit switches of the hook, switching from low to high speed, and for managing phase reversals.



Hook Block

Concise and sturdy hook block has the outstanding features of DIN standard: protective hook shield, machined pulley of a high-strength material of T-grade load hook

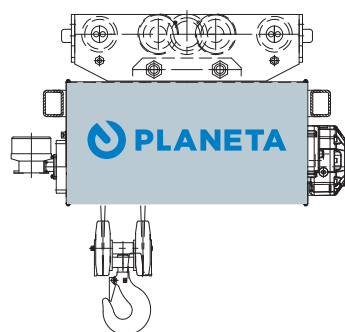
Electric Wire Rope Hoist



Short headroom trolley version

from 1,000 - 20,000 kg

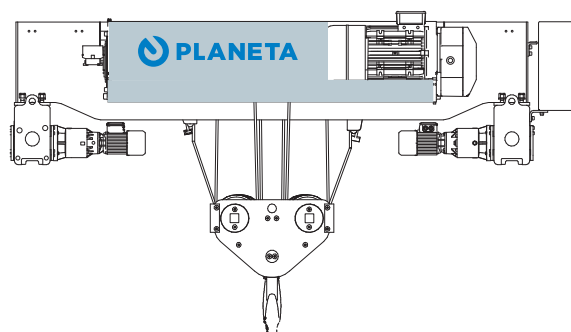
These hoists are fitted with a trolley for loads and are designed to make optimal use of the height or lift and the limited space available.



Normal headroom trolley version

from 1,000 - 50,000 kg (larger on request)

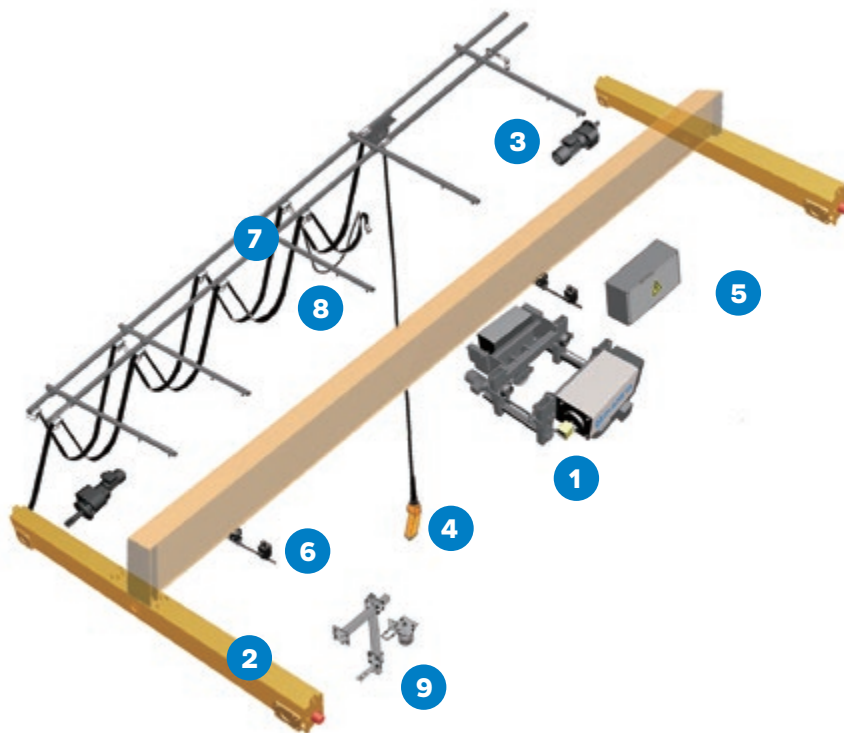
These hoists are fitted with a trolley and used for applications where horizontal movements is required.



Double girder trolley version

from 1,000 - 80,000 kg (larger on request)

These hoists are fitted with a trolley for horizontal movement of loads and are designed to move particularly large loads.



- 1 Hoist
- 2 Crane end carriage
- 3 Travel drive
- 4 Control pendant or radio control
- 5 Electric cabinet
- 6 Clamp-fitted buffers
- 7 C-rail assembly
- 8 Power supply with flexible flat cable
- 9 Collector support



End carriage for overhead crane



Crane travel drive



End carriage for suspension crane



Electric control panel



Signal transmitters



Push-button version



Load display



Joystick version



Travel limit switches for cross and long travel



Flat cable and supports for cross travel

PLANETA - Hebetechnik GmbH

Resser Straße 17 · 44653 Herne · Germany · Phone: +49 (0) 2325 9580 0 · Fax: +49 (0) 2325 77077

info@planeta-hebetechnik.de · www.planeta-hebetechnik.de

