



## Wire Rope Hoist Brochure

### WR Series



#### **Outstanding Features**

- 1 to 20 ton capacities.
- Three phase hoist (230 or 460 V / 60 Hz)
- Lightweight, robust construction.
- Available in base mount, monorail and double girder configuration.
- Standard lift speeds of 16, 24, 31 and 48 FPM.
- Low headroom trolley speeds of 50 FPM and 100 FPM
- Double Girder trolley speeds of 70 FPM and 140 FPM.
- Option to add variable speed drive and soft start control
- Standard upper and lower limit switches
- Hoist meet or exceed HMI, ASME and NEC requirements.
- Each hoist is tested at 1.5 times maximum weight rating.

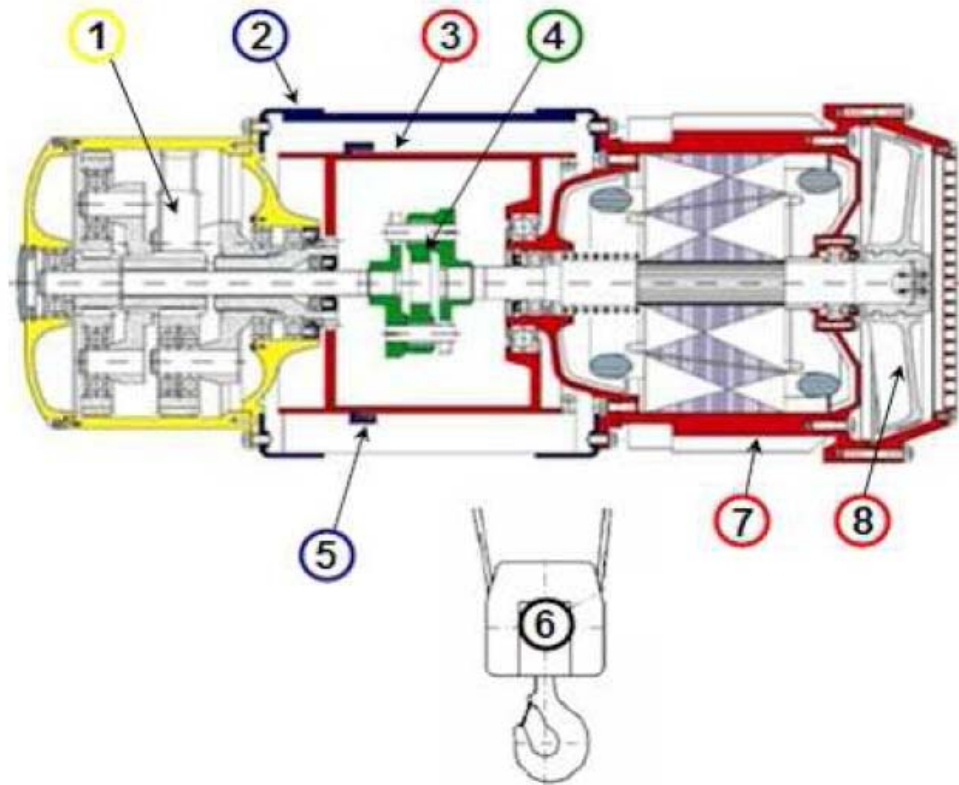
#### **Hoist Construction**

This electric chain hoist is an efficient means of lifting freely suspended material loads within its load rating. The frame and covers of the hoist are made from steel to ensure structural integrity.

Frame and control enclosure are weather protected against dust and water.



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**1 – Gear unit**

Two-stage planetary gear reducer of high grade material. The high quality surface hardened gears ensure smooth, quiet running long service life and reliability. All gear stages are immersed in an oil bath.

**2 – Body**

The housing represents an integral welded structure formed by two steel flanges connected with profiled longitudinal beams. The rope outlet can be in any directions permitting different assembly configurations.

**3 – Rope Drum**

The drum is of welded steel construction with accurately cut grooves, supported at both ends by oversized, lifetime lubricated and sealed precision bearings. The rope drum has a large cable to drum diameter ratio, this reduces rope bending and stress on the cable.

**4 – Flexible Coupling**

The torque of the hoist motor is transmitted to the reduction gears through a coupling which is flexible in both radial and axial directions.

**5 – Rope Guide**

The rope guide consists mainly of two parts – a guide plate and a tensioning spring which ensures precise rope winding and unwinding. The rope guide is designed to allow for a  $\pm 4^\circ$  vertical wire rope deviation. The rope guide actuates the upper and lower end limit switches.

**6 – Hook Block**

Large diameter sheaves running on shielded lifetime lubricated precision bearings. Hooks are forged and proof tested and are supported on shielded precision bearings and rotate 360°. Easy operation with minimum dead weight.

**7 – Electric Motor**

The TEFC externally mounted, tapered rotor motor is designed for high duty cycle factors and switching frequencies. Optional two speed motor available.

**8 – Mechanical Brake**

The integral conical mechanical brake has a 175% safety factor. The brake operates automatically upon loss of power.

**Second Brake**

The additional second Lenze BFK458 electric magnetic disc brake on the hoist gear reducer has a 125 % safety factor. The spring loaded brake operates automatically upon loss of power.

**Trolleys**

Trolleys have drop-forged, high tensile steel wheels accurately machined with shielded ball bearings for smooth operation. Motor driven trolleys are powered by TEFC squirrel cage brake motors.

**Load Limiter**

The additional adjustable load limiter Reduces the potential for making hazardous over capacity lifts. The load limiter protects the hoist from damage due to overloading. Overloading the hoist electrically activates the load limiter, making the hoist lifting inoperable (the load can still be lowered at any time).