

TOP-RUNNING WIRE ROPE HOIST



GWBI Top-Running Wire Rope Hoists - *Standard Features*

Top-Running Wire Rope Hoist



Designed for CMAA Class 'D' & 'E' Service, with capacities up to 75 tons.

Our top-running wire rope hoist is a precision built-up style hoist in a pre-engineered package platform. Designed per CMAA Specifications for crane builders and end users that value a heavier & rugged unit. Customizable in gauge, lift and speed.

The leading feature is our powerful gear case which is designed and manufactured to provide the performance and reliability your lifting applications demand. This is not your typical "off-the-shelf" unit.

Engineered with standardized componentry, our GWBI hoist provides lower cost of ownership and ease of replacement for wear items.



Hoist Gear Case

Triple reduction, parallel shaft, horizontally split, foot-mounted gear reducer with AGMA quality 8 helical/spur gearing sized in accordance with CMAA service factors. Fabricated steel housing is welded in fixture then thermally stress relieved. Bearing seats are line bored for proper alignment. Gearing operates in an oil bath splash lubrication system with fill & drain plugs. Lip type oil seals and spherical roller bearings. Large inspection covers are provided.

Hoist Drum

Fabricated steel weldment with flanged end. Fully machined with left and right hand grooves to provide true vertical lift.

Limit Switches

Hoist equipped with lower block actuated control circuit upper limit switch.

Optional geared rotary limit switch is available.

Wire Rope

IWRC construction applied with a minimum of 5:1 safety factor on the static breaking strength; secured to the drum with external bolted rope clamps. Two dead wraps will remain on the drum with the hook extended to its lowest position. Utilizing 6 x 37 or 6 x 19 wire rope construction.

Hoist Motor

Foot mounted NEMA frame, crane and hoist Vector duty, squirrel cage motor; TENV construction; 60 minute rated at 40°C ambient; Class 'H' insulation; thermostats in all three phases; with industrial duty, C-face mounted encoder. Motor encoder providing feedback via closed loop for vector hoist control.

Hoist Brake

Integral AC magnetically actuated disc brake rated at 140% torque mounted directly to motor. Optional shoe brake.

Couplings

Flanged gear type flexible couplings with exposed bolts are laser aligned.

Upper Block

Steel running sheaves with greasable bearings accessible from the top of trolley deck; provided with close-fitting wire rope guards.



Load Block

Load Block

Fully guarded fabricated steel frame with steel sheaves and greasable bearings, forged alloy steel hook with safety latch mounted on thrust bearing to allow 360° manual rotation under load.



A-4 trolley drive shown

Trolley Wheel Assemblies

Forged alloy steel double flanged with straight tread at a hardness of 400 BHN for ASCE or square bar rail; mounted on rotating axles with spherical roller bearings in steel caps.

Trolley Drive

A-4 type trolley drive with shaft mounted gear motors and DC disc brakes. Motors are continuous inverter duty with class 'F' insulation, TEFC.

Bolted Rail Sweeps

Designed for ease of removal to access wheel. Energy absorbing bumpers mounted on sweep. Bumpers will be sized per CMAA specifications.



GWBI HOIST - OPTIONAL FEATURES

- Hoist gear case bearing cartridges & seals (premium)
- Trolley hoist control - unitized panel in NEMA 12 enclosure, consisting of branch circuit fusing, thermal overload protection, variable frequency travel drives, flux vector hoist drives and dynamic braking resistors sized in accordance with CMAA service factors
- Dual hoist brakes
- DC hoist shoe brake with rectifier
- AC thruster hoist shoe brake with ductile iron brake wheel mounted on extension of gearbox input pinion shaft with tapered bore and nut
- Molten metal service
- High ambient temperature
- Mill duty AISE rated brakes
- Rotary upper/lower geared control limit switches
- Hoist power circuit limit switch
- Trolley travel limit switch
- Flame hardened drums
- Flame hardened sheaves
- Coupling guards
- Lubrication lines to a common nested maintenance point
- Cable reels
- Outdoor duty
- Epoxy paint



Production Facility
2600 Kirila Blvd., Hermitage, PA



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