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An ISO 9001:2015 Company



# ELECTRIC WIRE ROPE HOISTS



# REVA

INDUSTRIES INDIA PVT. LTD.  
Formerly Known as Reva Industries Ltd.



An ISO 9001-2015 COMPANY

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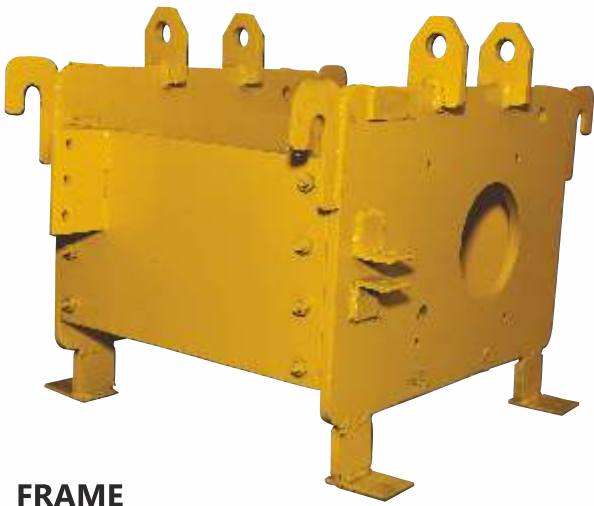
O U R N A M E C A R R I E S W E I G H T

# ELECTRIC WIRE ROPE HOISTS



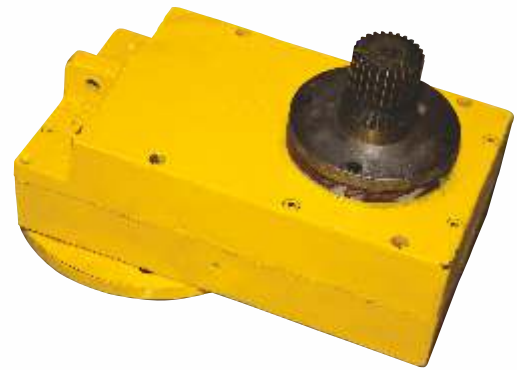
REVA offers RH Type NEW SERIES of heavy duty energy efficient Electric Wire Rope Hoists conforming to IS:3938:1983 and classified according to FEM/ISO with built in reliability, deriving product strength from making all the key Hoist components IN-HOUSE, optimally engineered and manufactured according to a standard Quality Assurance Plan using the latest in materials and manufacturing techniques.

The product is world class in line with European Manufacturers practices, It is compact and cost effective and has been designed keeping in view the customer needs. Optimum use of electrical energy has been taken into account for achieving speeds with liberal margins for voltage fluctuations, ambient temperature, gear efficiency etc.



## FRAME

Frame fabricated from Steel plates, having rugged construction, is machined and bolted with special fixtures



## GEAR CASES

Gear cases in graded cast iron are duly shot peened, stress relieved



## GEAR & PINIONS

REVA chose to make all their Gears & Pinions in - house ensuring their quality, compatibility & serviceability. All HELICAL gears & pinions integral with shafts is made from case - hardening low-carbon alloy steels and are HARDENED to 56-60 HRC. High speed Pinions & Gears are PROFILE GROUND running in splash lubrication oil bath to give noiseless movement with max efficiency to save on consumed electricity. Gears & Pinions confirm to DIN7/AGMA-12 standard and designed on KISSOFT software

## MECHANICAL

All Gears, Pinions, Rope Drums, Wheels, Sheaves are manufactured on State of Art CNC Turning Centres giving the benefits of achieving dimensional accuracies, consistency, repeatability and above all perfect profile & contours (which are otherwise difficult to achieve) thus leading to higher fatigue life

## OVERLOAD LIMITER

REVA New Series Hoists can be fitted with an overload protection device including a microswitch with single cut-in measures the amount of applied load and the dynamic and inertial effects of load handling. When the set calibration values are exceeded. the load limiter microswitch cuts in and opens the control circuit of the hoisting controls as an option



## ROPE GUIDE AND RETAINER

Rope guide leads the rope into spiral grooves in the drum and retains it in the grooves preventing overlapping on or loosening off the drum.



## ROPE DRUM

Drum from seamless steel pipe revolves on heavy duty self aligning roller bearings. The CNC machined spiral grooves accommodate rope in one layer allowing two full turns of rope on the drum when the hook is at the lowest position. Drum size corresponds to Class IV of IS ensuring lower head rooms and HIGH ROPE LIFE



## WHEELS

Closed die forged from medium carbon alloy steels, these wheels are produced on CNC turning centre for accurate bore & tread profile. Two nos. large dia ball bearings are used for better rolling effect and stability



### TROLLEY

Electric Wire Rope Hoist can be supplied for fixed mounting with geared trolley for manual operation or electric driven trolleys according to the Customer's requirements.

### MOTORS

High Starting torque, crane duty, totally enclosed squirrel cage induction motors in international frame sizes of reputed make are used.



Motors conform to IS:325. All motors used are suitable for  $415 \pm 10\%V$ ,  $50^\circ \pm 5\%Hz$ , 40% CDF suitably, 150 st/hr derated for higher duties, 50 C Amb. temprature. Motors suitable for different voltages and frequencies can be provided.

### LIMIT SWITCHES

A standard limit switch is used for max. UP and max. down cross travel motion as a standard feature.



### BRAKES

Fall Safe D.C. Disc Brakes is a standard feature for hoisting. The brakes are fitted with Asbestos \_ Free lining. The motor fan fixed on the rear of brakes keep motor and brake cool. The brake has manual release lever in case of emergency or power failure. Cross Travel is provided either with D.C. Disc or A.C, Disc Brakes as an option



### CONTROL

The operation is through Pendant Push Button Station having control voltage of 24V for maximum safety of operator through flush - typehold on push button housed in IP:55 enclosure, Electricals of reputed make such as Siemens, L&T are used, Individual motors are protected by HRC fuses/MCB's, overload relays, single phasing and wrong sequence preventers as an option.



### WIRE ROPE

Non-Rotating type wire ropes of suitable construction bought from reputed manufacturers, made of best plough steel conforming to IS:2266 with factor of safety appropriate to the class of duty is used with every Wire Rope Hoist.



### HOOK BLOCK

Standard forged trapezoidal section hooks to IS: 15560 are used, Hook is carried in steel cross head on thrust ball bearing. The sheaves are supported on ball bearings, Sheave dimension correspond to relevant IS.



## ADVANTAGES

Manufactured in STANDARD MODULES, these Hoists are having following advantages:

- Capacity ranging from 0.5T till 50T, lifting Height ranging from 3M upto 130M.
- Very high gearing life - silent running with all BENEFITS OF HELICAL GEARING
- Noise Levels Less than 85Db. Making a healthy environment.
- Energy efficient for least electricity consumption. (You save on electricity every time you use it)
- Compact, Low Head Rooms & low dead weights leading to SAVING on infrastructure due to lower heights & lower head rooms.
- All mechanicals manufactured in-house on the state of the art CNC turning centres and CNC Vertical Machining Centers assuring QUALITY & CONSISTENCY.
- Perfect BALANCING leads to equal load on both flanges of runway beam flange Adjustable
- All Hoists are HEAVY DUTY conforming to CI-IV of IS:3938 1983 & design conforming to FEM/ISO
- EXPERIENCE of over 40 years of Hoist Designing and Manufacturing
- Trolley to suit DIFFERENT beam widths
- Manufactured as per a standard QAP

**UNMATCHED PRICE - PERFORMANCE RATIO**



Low Headroom Hoist



RHN Compact Hoist

## STANDARD FEATURES

- Limit switches for up and down movement.
- Limit switches for cross travel
- Suitable Pendant with wire rope upto the operating Height
- Isolator Switch at the floor level
- Fail Safe Brakes for Hoisting and Cross Travel Motion
- Load and over load testing at our Works
- Hoist fully wired, wire rope reeved - Plug and Play type model
- Swelling Hooks on Thrust bearings with safety Latch
- Major bought items are from reputed makes which are approved by NTPC/BHEL
- Adjustable trolley to suit various beam sizes
- As standard Epoxy Paint used reputed makes like Berger/Asian coating thickness 150 microns
- Various Models available as standard - choose from Normal Hoist, Compact Hoist, High Lift Hoist, Low Headroom Hoist, Ultra Low Headroom Hoist, BI-Rail Hoists, Fixed Hoists, True Vertical Lift Hoists

## OPTIONAL ADDITIONAL FEATURES

- Radio Remote Control
- Variable Speeds with VVVF AC Drives
- Creep Speed through additional Creep Gearboxes
- Any other speed required which is not covered in our standard ranges
- Mechanical Load Sensing Over Load Limiter
- Load Cell to display load being handled
- Gravity Limit Switch for additional safety
- Hoists suitable for curved path
- DSL system as desired - choose from various festooning arrangements, shrouded bus bar
- Under the hook arrangements like Magnet, Lifting Beams, Gates
- Special Paint for corrosive atmosphere / coastal environment / chemical industries
- Galvanised Wires for corrosive environment
- Hoists suitable for hazardous area as per ATEX directives
- IP65 control panels, Motors, pendants as may be required
- Special designs/customisation like hoists in Tandem to lift heavier loads, use of PLC, HMI
- Hoists as per other standards like ISO/FEM/BS
- Hoists for Steel Mill Duty
- Hoists for different voltages and frequencies

*\* REVA reserves the right to modify or improve its equipment described in this catalogue.*



Double Drum Hoist  
for High Lifts



Flame Proof Hoist



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