

**THE HOIST THAT MAKES LIGHT WORK OF HEAVY JOBS**



**CRANES**



**NEER** industries

# CORPORATE PROFILE

**NEER INDUSTRIES** equipments, specialize, in design, manufacturing, supply & installation of cranes & cranes & hoists in India. Establishment in 2007 founded by MR. CHANDRAKANT, with farsighted vision to manufacture high quality cranes / hoists and its components INDIA. Having over two decades of experience, the crane and material handling specialties of NEER have achieved a strong customer base with our in house manufacturing unit, proven computer aided equipment designs and extensive customer's services programs and sales and parts support networks. We insist in good quality reliable products as quality control. Our products can save your time, man-hours and lift up productivity with safety of human beings. Today, we provide variety of solution in material handling with our range of standard equipments well as custom engineered systems. Over two decades of experience NEER products range includes crane capacity up to 100-ton capacity.

## **OUR INFRASTRUCTURE :**

- Designing
- Manufacturing
- Quality Assurance
- Erection & Commissioning
- After Sales Service

## **Your SAFETY & Equipment Health is**

### **OUR CONCERN :**

- Higher Return on you investment
- Unmatched quality
- Increased productivity with higher uptime
- Reliable and prompt service
- Our experience and expertise
- Genuine spare
- After Sales Service
- Environment friendly technology
- Safely.

## **QUALITY POLICY :**

NEER INDUSTRIES is committed provide meeting customer on requirements to achieve more and more customer satisfaction. We will strive for on going improvements in all our activities by enhancing skills of all our employees through training and motivation.



## **OUR PRODUCT RANGE :**

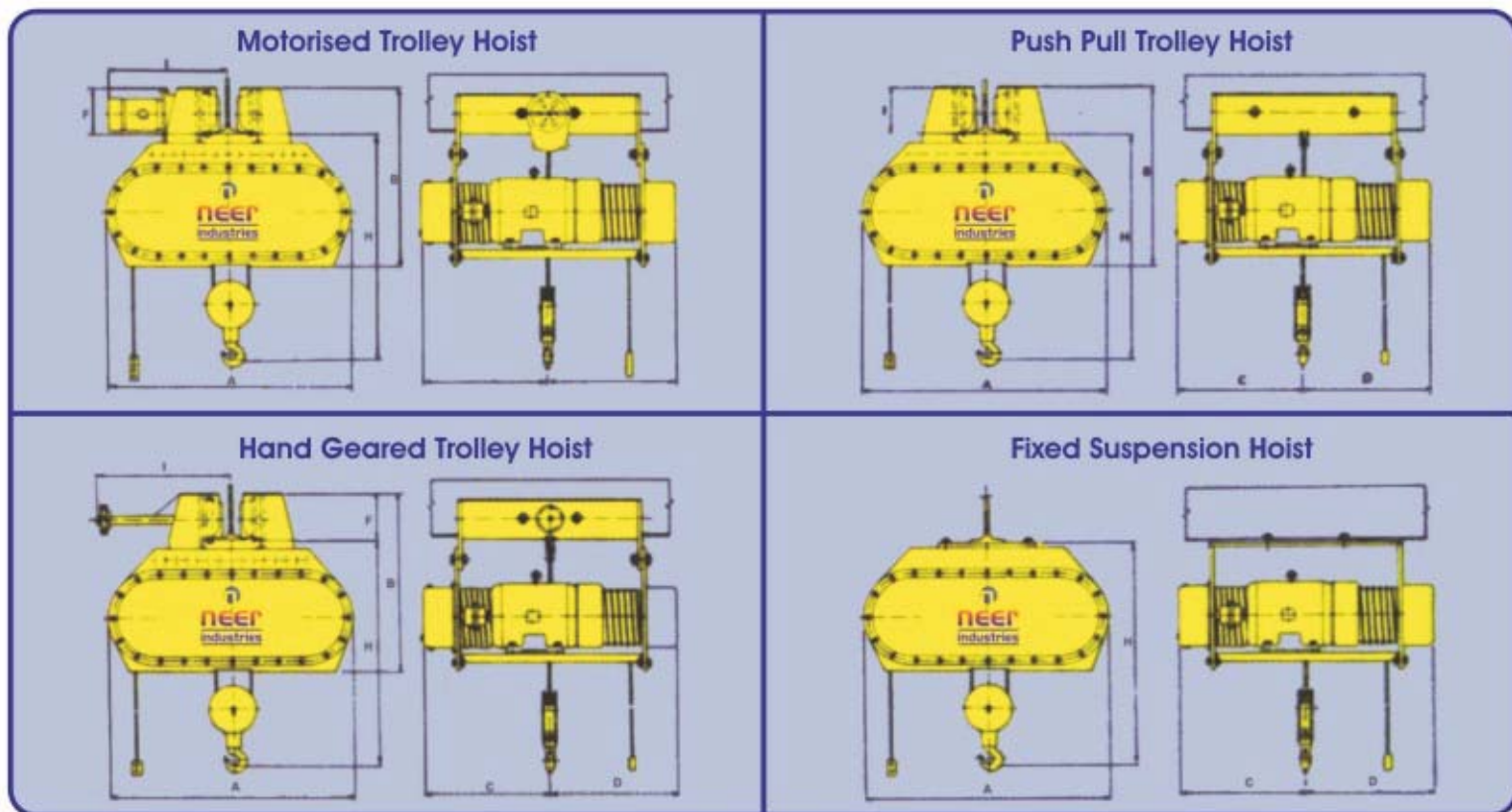
- EOT Cranes Double Girder up to 100 Ton Capacity
- EOT Cranes Single Girder up to 12.5 Ton Capacity
- HOT Cranes
- Goliath Cranes
- Semi Goliath Cranes
- Wire Rope Hoist up to 12.5 Ton Capacity
- Foot Mounted Hoist
- Dual Speed Hoist
- High Speed Hoist
- Flame Proof Hoist
- Crane Duty Gear Box
- Wheel Assemblies

# TECHNICAL SPECIFICATIONS OF NEER WIRE ROPE HOISTS



Model No.	Capacity in Kgs.	Hight of Light (Mts.)	Lifting Speed (M.P.M.)	Travel Speed (M.P.M.)	Hoist Motor (HP)	C.T. Motor (HP)	Falls of rope/ Driven
NH-0	500	6	4.0	15	1.00	0.25	2
NH-1	1000	6	4.0	15	1.50	0.25	2
NH-2	2000	6	4.0	12	3.00	0.50	2
NH-3	3000	6	3.5	12	5.00	0.75	4
NH-5	5000	6	3.5	12	5.00	1.0	4
NH-7	7500	6	3.5	10	7.50	1.0	4
NH-10	10000	6	2.0	10	10.00	1.5	4

Falls width of "I" Beam	Dimensions (mm)						Wt. Kg.
	A	B	C	D	H	I	
90-140	540	460	410	410	675	440	150
90-140	540	460	410	410	675	440	180
100-140	750	600	510	510	750	530	350
125-140	750	600	510	510	750	530	400
140-210	890	680	585	585	950	570	550
150-210	890	680	585	585	950	570	700
150-210	1000	900	830	710	1250	600	1200



**NOTE:**  
Hoist specification above 10 Tons on request. In accordance with our policy of progressive improvement the right is reserved after any details of price, specifications and dimensions without any notice.

# SINGLE GIRDER OVERHEAD CRANES

**NEER** Cranes are designed in accordance with IS Standard specifications. Top Running cranes run on elevated runway system along length of a factory and provide three axes of hook **NEER** cranes are in use in a wide range of lifting applications from the lightest duty to serve industrial application.

## FEATURES :

- **Low Dead Weight** : Reduce Cost of Supporting Structure
- **Minimum Headroom** : Reduce Building Cost
- Standard Components
- Competitive Prices & Quick Delivery
- Wide Selection of Operation Speeds
- Deflection  $\leq$  Span/1000
- Maximum Hoist/Crab Weight Considered in Design
- All Bolted Construction For Ease In Assembly



## STEEL CONSTRUCTION :

- Steel conforming to IS 2062 of or equivalent are used in the manufacturing of the main load bearing members.
- The girders are not only designed for deflection and strength but also account is taken for natural time of vibration and damping. This will avoid vibration in the crane girders and other crane components for prolonged period.

## END CARRIAGES / END TRUCKS :

- The crane End trucks are manufactured either standard rolled steel section or welded plate box section type and are assembled to ensure alignment of bearings and axles.
- Twin Drive arrangements are normally standard. Central Drive arrangements are also available on request.
- Main cross Girders to end trucks connection are bolted to ease in assembly.
- Rubber Buffers are standard on all end trucks to reduce impact when a moving crane or trolley reaches the ends of its permitted travel or when two moving cranes or trolley come into contact.

## HOISTING MACHINERY :

The hoisting machinery / crab consists of a **NEER** heavy duty industrial type standard wire rope hoist.

## MOTORS AND BRAKES :

- All motors used in the cranes are specially designed for crane and hoist duty applications.
- All trolley and drive motors have suitable AC/DC brakes as standard equipment with smooth running properties.



## CONTROLS :

- Each crane is controlled from a suspended push button station from a track at suitable floor height.
- Supply to the pendent push button is with options of 110V. 24 V.
- Dust & vermin proof powder coated sheet metal housing consists of contactors, relay, transformers and other associated equipments.
- Emergency stop button are provided in all cranes to shutting off the power to the main contractors.

## OPTIONAL FEATURES :

**The Following features can be supplied on request.**

- Variable Speed Control/Micro Speed arrangement through Frequency Inverters / Variable Drives
- Radio Remote Control
- Runway Electrification through Cable festooned system or shrouded Bus Bar System
- Bridge Lights
- Warning Horn or Bell
- Cabin operated through master controller
- Anti-Collision equipments

## SURFACE TREATMENT :

- All structural parts of cranes are applied on coat of primer and two coats of synthetic enamel paints.
- Epoxy paints and Polyurethane paints are on request.

## OTHER OPTIONS ARE AVAILABLE ON REQUEST. TOP RUNNING/SINGLE OVERHEAD CRANES :

**Capacity** : up to 12.5 Ton.

**Span** : up to 30 meters (Depending on the capacity)

**Long travel speed** : up to 30 meter/min

**Cross travel speed** : up to 15 meter/min

- Moderate cost because of its simple construction
- Widely used for small capacity types with shorter span
- Suitable for short headroom  
(distance between building ceiling and the Traveling rails)

## UNDER SLUNG / UNDER HUNG / SUSPENSION TYPE SINGLE GIRDER OVERHEAD CRANES :

**Capacity** : up to 5 Ton.

**Span** : up to 20 meters (Depending on the capacity)

**Long travel speed** : up to 20 meter/min

**Cross travel speed** : up to 15 meter/min

- Used when ceiling height is relatively small
- Cost effective and use of totally shop floor without any obstruction
- Run under when span of crane is too longer

## SINGLE GIRDER / DOUBLE GIRDER GANTRY / GOLIATH CRANES :

**Capacity** : Single Girder cranes up to 12.5 ton cap.

Double Girder Cranes up to 50 ton cap.

**Span** : up to 20 meters. (Depending on the capacity)

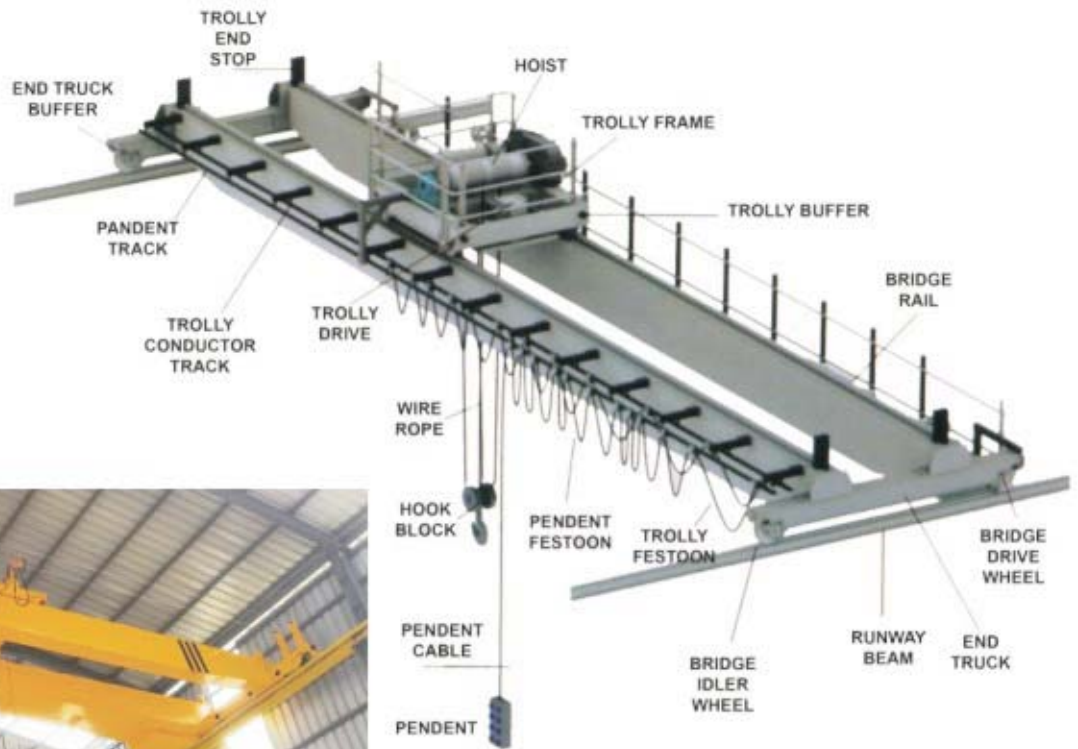
**Long Travel Speed** : up to 20 meter/min

**Cross Travel Speed** : up to 15 meter/min

- Widely used for outdoor applications like constructions area, ship yards.
- Used when rails are installed on ground surface
- Used to carry materials outdoor to indoor area
- Cost effective and economical solutions no need of concrete foundations, Runway beam and columns



# DOUBLE GIRDER OVERHEAD CRANES



## TOP RUNNING / DOUBLE GIRDER OVERHEAD CRANES :

**Capacity :** up to 100 Ton.

**Span :** up to 30 meters

**Long travel speed :** up to 40 meter/min

**Cross travel speed :** up to 20 meter/min

- Widely used for large capacity types with longer span
- Used for high frequency & hard works in any motions
- Suitable for large headroom (distance between building ceiling and the Traveling rails)

## LT WHEEL :

- Double flanged straight tread type fitted with spherical roller bearing LT wheels are provided in each of the two end carriages.
- Wheels are supported on 'L' type live steel axles bearing housing assembly.
- Wheels are made from solid round forged steel materials and hardness up to 300 BHN.



## CONTROL PANEL :

- AC VARIABLE SPEED DRIVES

(Latest Crane Control Solution Enhances Crane performance without Worries)

- **Smoother operation**
- **Excellent control**
- **Different operating speed for each process**
- **Allow accurate positioning**
- **Control torque tension**
- The gentle start up of a motor with an ac drives reduces the stress on process mechanism and on electrical equipment.
- Using variable speed drive eliminate micro motor, micro gear box, additional brake etc.... which directly save on equipment cost with better performance.
- The VFD eliminates the need for magnetic reversing contactors, reduces the number of wearable components in the panel and reduces long-item maintenance costs.



# NEER PRODUCTS ARE



## ELECTRIC WIRE ROPE HOIST :

- There are two type of hoist

## MONORAIL TYPE UP TO 12.5 TON CAP :

- Fix suspension type
- Hoist with Hand-Push trolley type
- Trolley can be adjusted for various flange width

## DOUBLE RAIL TROLLEY TYPE (CRAB) UP TO 100 TON CAP :

- Compact Design & High Safety Level
- Wide selection of operation speed
- Hoist with Hand-Push trolley type
- Easily Accessible - cut down repair time

## HOSTING MACHINERY :

NEER hoists are manufactured compliance to IS 3938 to meet Class II, III & IV duty applications. Hoisting machinery consists of motor, Brake, Gear box, Rope Drum, Wire rope, Control Panel etc. Hoisting machinery service the purpose of moving loads vertically as well as transferring them one point of the area covered by the machinery into another.

## MOTOR :

Motors are totally enclosed, hoist duty with 'F' class insulation, 150 Starts/Hour, 40% class duty cycle of reputed make like Megha / Bharat Bijli / Kirloskar / Crompton / Siemens / Rotomotive (Italy) / BCH Make

## GEAR BOX :

All Gearbox used in the cranes are totally enclosed in dust proof construction. Gears are machined from Alloy Steel Hardened. All Gearing is enclosed in a rugged steel housing and is oil/ grease splash lubricated.

## BRAKES :

Suitable Electro magnetic AC Disc / Electro Magnetic AC Shoe type / Electro hydraulic Thruster type brakes are provided in all motions. These are automatically released when the motor circuit is on & are applied when the motor circuit is off. This feature works as a positive safety device as the brakes automatically comes into operation when the power supply fails.

## ROPE DRUM & ROPE GUIDE :

Steel drums are precision machine cut fabricated from seamless pipe/Plate having either single or double grooved configurations. Hoists are equipped rope guides to prevent over lapping of the rope on the drum and to extend rope life.

**LIMIT SWITCHES** : upper and lower hoisting limit switches are standard equipments.

## BOTTOM BLOCK :

Bottom Blocks are equipped with protective guard around the rope opening. Shank type forged Hook is per IS 3815 swivel on trust bearings.

## CONTROL PANEL :

The easy to service control panels consists of standard make of heavy duty contactors, over load relay, transformers and other associated equipment. All Hoists are suitable for three phase 415 V  $\pm$  10 %, 50 Hz, AC supply. Other power supply types on request.

## OPTIONAL FEATURES :

- Variable Speed Control / Micro Speed arrangement through Frequency Inverters / Variable Frequency Drives.
- Radio Remote Control.
- Suitable for curvature type
- Other Options are available on request.

**ALSO AVAILABLE** : • Higher Lift Hoists • Flame Proof Applications



# INDUSTRIES WE SERVE

[www.neerindustries.com](http://www.neerindustries.com)

## INDUSTRIES WE SERVE

- Foundries
- Steel mills
- Fertilizers
- Paper mill
- Chemical Plants
- Power Plants
- Engineering Works
- Petrochemical Plants
- Cement Plants



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