



**ENDEAVOUR INSTRUMENT PVT LTD**  
Manufacturer & Exporter of Electronic Weighing Scales, Weighbridges & EOT Cranes



## Material Handling Equipment





# WHO WE ARE

Endeavour Instrument Pvt Ltd was established in the Year 1992, it Is an ISO 9001:2008 Certified Company Engaged In Manufacturing, Supplying & Exporting of a Wide Range Of below products.

- **Weighing Machine**
- **Weighbridges.**
- **Hanging Scale**
- **EOT Cranes**
- **Wire Rope Hoist**
- **Goods Lift**

We continue to set new global standards for production and service of overhead cranes, hoists, Cage Hoist/Goods Elevator industry & Weighing System.

We have maintained our industry leadership, for more than 28 years, by providing services to insure that all your material handling equipment and weighbridges are operating at peak efficiencies. Our team of expert service engineers are continuously supporting the commitment to keep your material handling equipment running effectively and efficiently!

We supply spares for Overhead Cranes including Gantry Cranes, Single/Double Girder, and Jib Cranes, additionally we deal in Flame Proof hoists, Crane & Platform Scale.

**Email: - [sales2@endeavourweigh.com](mailto:sales2@endeavourweigh.com)**

**No. 9712002292**



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Our state-of-the-art designs allows our products to ensure highest quality, strength, durability and long-term reliability. The Endeavour design and services team are highly qualified and experienced to help with any problems or situations that arise. We have a variety of options to offer our customers below products.

## APPLICATIONS:

- Steel Plants
- Power Plants
- Constructions Site
- Ware Houses
- Transporters
- Harbours
- Marine
- Railway Yards
- Oil & Gas
- Factories
- Heavy Fabrication Units
- Mine Quarries
- Large Water Works
- Other Industries





## ELECTRIC WIRE ROPE HOIST



**Capacity**  
**0.5 MT to 25 MT**

EIPL offers various type of Electric Wire rope hoist, Curvature Type Wire Rope Hoist, Electric Chain Hoist & Flameproof Wire rope Hoist with capacities ranging from 0.50 Ton to 25 Ton.

Our Wire Rope Hoist is designed and developed using high quality components with the help of our experienced teams. Our wide clientele has shown their appreciation for the powerful performance of our products.

We offer this Wire Rope Hoist with Flexible Trolley in various specifications to cater to the various needs of the clients. It is strictly tested by our quality supervisors to ensure consistent performance at the users end.

### **Features:**

- Manufactured in compliance to IS 3938
- Suitable for Class-II, III, IV application.
- The Rope Hoists have a machined steel frame.
- Tested at 125% of rated capacity
- The Rope Drum is made from seamless pipes / steel plate Grooved to take full lift without over-winding.
- The Drum Shaft has made from EN-24 materials & ball bearings to ensure smooth running.
- The Motor used are as per IS325.
- The Wire Ropes are designed as per IS-2266 specifications.
- The Forged Hooks as per IS-15560 or equivalent.
- The Rope Guides are attached to protract rope life

# TECHNICAL DETAILS / DRAWING

TECHNICAL DETAILS OF ELECTRIC WIRE ROPE HOIST										
CAPACITY	500 kg	1 Ton	2 Ton	3 Ton	5 Ton	7.5 Ton	10 Ton	15 Ton	20 Ton	
STANDARD LIFT	6	6	6	6	6	6	6	6	6	6
NO OF FALLS	2	2	2	4	4	4	4	6	6	6
WIRE ROPE SIZE	6	8	10	10	10	12	14	16	18	
Hoisting	Motor Hp	1	1.5	3	5	7.5	10	12.5	15	
	Speed (MPM)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.5	
Cross Travel	Motor Hp	0.25	0.5	0.5	0.5	0.75	1	1	1	
	Speed (MPM)	15	15	15	15	15	15	15	15	
Suitable I -Beam Size (Approx.)		100-150	100-150	100-150	150-180	150-400	200-400	250-400	300-400	300-400
	A (HR)	600	650	800	850	1000	1200	1300	1600	1800
B	175	175	200	225	225	225	225	300	325	
C	500	500	550	600	750	850	850	1250	1250	
D	700	850	980	1150	1250	1700	1700	1850	1850	
H	275	275	310	350	450	525	525	650	650	
I	375	375	400	450	450	500	500	600	600	
Approx. Weight(Kg)	150	170	400	450	550	1000	1200	1600	2200	

\*All Dimensions are in MM.

\*Details and Dimensions can be vary to Improve the Quality.



# SINGLE GIRDER CRANE

## SINGLE GIRDER CRANE



Capacity: 1 Ton - 15Ton  
Span: 3 M~22.5M  
Class: II, III & Heavy Duty  
Painting:  
Primer and finishing paint  
Colour: according to your demand.  
Working Environment  
Temperature: -20° to +40°

### Advantages and Features:

- Single Girder Cranes are designed and manufactured in compliance with the duty classification as per IS-3177 & IS-807 for different application.
- Use optimized computer design box type girder as main support girder.
- Best for Low Head Room Space
- All mechanisms are wisely used for Crane Duty applications
- Motor protection class is IP54, F class insulation and equipped with overload protection equipment. (optional)
- Specially designed gearbox for crane, adopts oblique gears, self-lubrication.
- Control stick could be connected with trolley, freely move on main girder separately and can also control the travelling speed according to the different depth of buttons.
- Longer utility life-span and higher working efficiency.
- Travelling speed adopts nonpolar speed adjustment control which result in stable travelling and small sway of crane.
- Easy to overhaul

### Working Principles of Single Girder Crane:

- Overload protection: If the material is over the capacity, the crane will give a sharp warning for protection itself.
- Emergency brake: If the operation staff encounter some emergency situation, we could start the emergency brake system to protection the related treasure.
- Control Method: Room control or remote control to avoid any injure to the operation staff
- Main lifting motor: with thermal protection and currency protection.



## DOUBLE GIRDER CRANE

Our result-bound working approach has allowed us to be the leading manufacturer and exporter of Double Girder Cranes. It is composed with advanced girder, end beam, trolley and electric parts so as to have its optimum efficiency in all aspects. Moreover, the Double Girder Crane we offer has some outstanding characteristics such as, easy assembling, robustness, and easy control model. The offered cranes are widely used in warehouses, process plants, power plants & other various application, for lifting goods/ raw materials/



finished Goods. We have made sure that the Endeavour Double Girder Crane provides the highest quality of performance and functionality

Double Girder EOT Cranes are designed with adequate safety factors, in accordance to duty classification as per IS-3177 & IS-4137. EOT Cranes are classified in different types mainly Single Girder Cranes or Double Girder Cranes are Available in the capacities of 1 Ton to 250 Ton.

### Features

High Efficiency      Long Working Life  
Robust structure      Less maintenance required

### Double Girder EOT Crane Specifications:

- The structural parts of the Overhead Bridge Cranes are designed and manufactured as per IS-807.
- These types of Double Girder EOT Cranes are used for heavier loads and longer spans.
- These EOT Cranes are widely used in various applications like transporters, trenches, erection of bulky equipment, shifting of heavy loads, mine quarries, heavy fabrication units and others.
- They offer the advantages of low headroom as the hook can be lifted up between the girders.
- All components are carefully selected for 'Crane duty' applications.
- Double girder crane mainly consists of two main beams, two side beams, traveling trolley as lifting mechanism, and driver's cabin (if require) etc. Different with single girder overhead crane, double girder crane with greater lifting tonnage, more stable running, generally install driver's cabin room to achieve safer operation.



# GANTRY / GOLIATH CRANE



**Capacity: 1 T to 100 Ton**

## Type of Gantry Crane

- Single Girder
- Double Girder
- Semi Gantry
- Manual / Portable Gantry Crane

These cranes are essentially the same as the regular overhead cranes except that the bridge for carrying the trolley or trolleys is rigidly supported on two or more legs running on fixed rails or other runway. A gantry crane has a hoist in a trolley which runs horizontally along gantry rails, usually fitted above a beam spanning between legs which themselves have wheels so that the whole crane can move at right angles to the direction of the gantry rails.

These cranes come in all sizes, and some can move very heavy loads, particularly the extremely large examples used in shipyards or industrial installations.

## Features

- Suitable for Outdoor / Indoor Application
- Fully Remote Control & Manual option available
- High efficiency & Low Noise
- Suitable for Cement and Precast application
- Less Building structure
- Easy to Install, Easy to Remove
- Low Operation Cost





# JIB CRANE

## JIB CRANE



**Capacity:- 250 kg to 10 Ton**

A jib crane is a type of overhead lifting device that's often used in a smaller work area for monotonous and unique lifting tasks. Jib cranes are extremely adaptable and can also be paired with overhead bridge cranes to maximize production. They are easy to operate, and require less maintenance because of their simple structures.

### **Type of Jib Crane**

#### **Pillar Type / Free Standing Base Mount: -**

Pillar type cranes are the most versatile type. They are perfect to place underneath large bridge cranes, in open areas where they can serve several work stations, in outdoor applications such as loading docks, or in machining and assembly operation.

- 360 degree rotation.
- independent head assembly installs separately for ease of installation.
- Coverage: circular, Standard spans to 7 mtr.
- Standard capacities up to 7.5 ton.
- Optional: Top and Bottom entry air swivel.
- All drive parts are easily accessible for lubrication and adjustment.
- 3 Mounting styles; base plate mounted, sleeve mounted, insert sleeve mounted.

**Mast Type:-** The pole type crane is floor supported, top stabilized, and is capable of 360 degree rotation via a top and bottom bearing assembly. The following three requirements must be seen before considering a mast type.

- A suitable structural support to support the crane at the top
- The deflection of the supporting member may not exceed 10 to 12 mm.
- Clearance overhead for the boom to rotate must exist.
- Capacity Up to 5 Ton
- 360 Degree rotation available
- Application:- used in high productivity area, monotonous work area.

**Wall Mount:** - A wall Mount crane is one of the most popular and widely used type of jib cranes, and is usually the least expensive of the alternatives.

- 200 degrees maximum rotation
- Spans Up to 9 mtr (longer spans available).
- Wall bracket (tie rod supported boom)
- No supporting components are used under boom enabling full utilization of work area.
- All connections bolted
- Grease fittings for field lubrication
- Utilizes standard I-beam and single tie rod design to reduce off-center loading problems.



**Pillar Type /  
Free Standing  
Base Mount**

**Wall Mount**





# UNDERSLUNG CRANE

## UNDERSLUNG CRANE



It is a one type of EOT crane, which is used for light material handling. Ideal for complex building and low head room area.

**Capacity up to 8 ton**

**Span up to 25 mtr**

**Ideal for low headroom area**

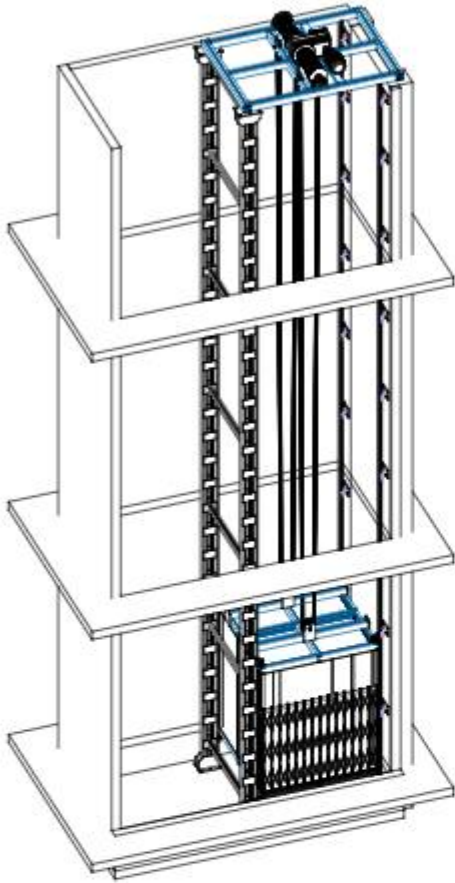
**Utilization of whole span**

**Less Expensive due to less pillars / columns are used**

**Also, Manufacturer of “Magnet Crane,  
Ladle Crane & Customised Crane” as per  
Client’s requirement**

# GOODS LIFT

## GOODS LIFT



### Capacity:- 0.5 ton to 7.5 ton

Designed to suit client's specific requirement using superior quality raw material and bought out items. Goods Lift / Cage Lift are guided in steel guide member (T-section) with hoisting and lowering operations performed by our electric wire rope hoist. Operation is through interlocked push buttons. Limit switches are provided for safety.

We provide a variety of cage lift in various size and capacity as per our client requirement with or without collapsible gate.

### Design, Features & Specifications.

- Suitable for lifting loads from one floor to the other floors, vertically.
- Cabin Size as per customer requirement limited to 16 foot.
- Easy to Install.
- Maximum lift height 12 Mtrs for Hydraulic Lift and up to 35 Mtrs for Electric Goods Lift.
- Capacity ranges from 0.5 To 7.5 Ton.
- Available with Sliding and Collapsible doors.
- Less Maintenance.



# CRANE COMPONENTS

## END CARRIAGES



- Simple design / less alignment / Small Platform for easy overhauling.
- Fabricated from steel plates.
- Easy to install & suitable for Single Gantry/ Double Gantry type Crane as per client specifications.
- Used Drive for smooth run.
- "L" Block design.

## C-RAIL SYSTEM

- To provide Power and control to a Hoist system/ a Crane.
- Reduce cable cutting problems
- Suitable for Indoor / Outdoor application
- Used in Wired pendant option.



## DSL (BUSBAR)

- Power Supply of EOT cranes
- IP-21
- Used for Power supply to Mobile equipment.
- Design to accommodate the power supply from 50 amp to 1000 amp
- Shock Proof System, No exposed live parts
- Maintenance free, Easy to install & Available in various length



# CRANE COMPONENTS

## RADIO REMOTE CONTROL SYSTEM



- Wireless Radio Remote is used in Hoist & crane with the operation range from 50 Mtr to 100 Mtr.
- Plug & Play system with our standard Panel.
- Function up to 14
- Rechargeable Battery
- IP-65

## ELECTRICAL PANEL

- Control panel box with smoke grey powder coating & 2 nos key type lock on door with gasket for dust protection (IP-54). / IP-65 –if require
- Drive Used in LT motion for Smooth working.
- Used step down 415/110v low voltage transformer for safe working. Power on indication lamp on Panel.
- PG type gland for accurate grip of Cable
- Use VSP in Control Panel
- Unbreakable Terminal for wire connection
- Standard Make Switch Gears Like Siemens / Schneider / ABB / L&T
- PVC insulated Standard Cable Like Polycab/ KEI / RR
- Proper Insulation & lifting facilities are provided
- PLUG & PLAY system for cable connection to provide ease to users
- Exhaust fan arrangement for normal air-cooled





# ENDEAVOUR PROVIDES VALUE ADDED SERVICES BESIDES MANUFACTURING OF THE MATERIAL HANDLING EQUIPMENT'S

- Manufacturer of Electronic Pit Type / Pit less Weighbridge.
- Crane Scales ranging from 1 ton to 50 ton
- Erection and Commissioning of Cranes, Hoists, Cage Hoists/Good Elevator and Chain Pulley Blocks.
- Gantry Alignment & Revamp / Modernization of old cranes.
- Erection and Commissioning of Rails.
- Load Testing and Certification of the Material Handling equipment.
- From erection to certified load testing, our service engineers are trained to ensure quality results with mini mum impact to your business.



## OUR OTHER PRODUCT RANGE



PITLESS WEIGHBRIDGE



PIT TYPE WEIGHBRIDGE



UNMANNED SYSTEM



CRANE SCALE



PLATFORM SCALE



TABEL TOP



# FEW OF OUR MATERIAL HANDLING EQUIPMENT CUSTOMERS

Sr No.	Company Name	Location	Product
1	IRM Offshore & Marine Engineers Pvt Ltd	Ahmedabad, Gujarat	50 / 15 MT Capacity Double Girder EOT Crane
2	IRM Offshore & Marine Engineers Pvt Ltd.	Ahmedabad, Gujarat	30 MT Capacity Double Girder EOT Crane
3	Real Boilers	Ahmedabad, Gujarat	30 MT Capacity Double Girder EOT Crane
4	Atul Ltd	Valsad, Gujarat	40 MT Capacity Double Girder EOT Crane
5	Apar Industries Ltd	Valsad, Gujarat	25 MT Capacity Double Girder EOT Crane
6	Vatsalya Paper Mill Pvt Ltd	Surat, Gujarat	20 + 15 MT Capacity Double Girder EOT Crane (2 Nos.)
7	Swaraj Paper Mill Pvt Ltd	Surat, Gujarat	20 + 15 MT Capacity Double Girder EOT Crane
8	Grasim Industries Limited	Bharuch, Gujarat	20 MT Capacity Double Girder EOT Crane
9	Trivedi Corp Pvt. Ltd	Abu road, Gujarat	20 MT Capacity Double Girder Goliath Crane
10	TRIVENI BOILER PVT LTD	Bharuch, Gujarat	15 MT Capacity Double Girder EOT Crane
11	Sunvisors (India) Pvt Ltd	Mehsana, Gujarat	15 / 7.5 MT Capacity Double Girder EOT crane
12	Advantage Plus USA	USA	15 MT Capacity Double Girder EOT Crane
13	M. K. Engimech Pvt. Ltd	Ahmedabad, Gujarat	15 MT Capacity Double Girder EOT Crane
14	ARVIND LTD	Kalol, Gujarat	10 MT Capacity Single Girder EOT Crane
15	ARVIND PD Composites LTD	Kalol, Gujarat	3 MT Capacity Single Girder EOT Crane
16	ENERGY MISSION MACHINERIES (I) PVT. LTD.	Ahmedabad, Gujarat	5 MT Capacity Single Girder EOT Crane (2 Nos.)
17	ENERGY MISSION MACHINERIES (I) PVT. LTD.	Ahmedabad, Gujarat	5 MT Capacity Single Girder Goliath Crane (2 Nos.)
18	L&T TECHNOLOGY SERVICES LIMITED	Vadodara, Gujarat	10 MT Capacity Single Girder EOT Crane
19	Hi Tech Pipes	Ahmedabad, Gujarat	10 MT Capacity Double Girder EOT Crane
20	JAIN ENGINEERING WORKS	Indore, Madhya Pradesh	10 MT Capacity Double Girder EOT Crane (3 Nos.)
21	Ashwamegh Corporation	Ahmedabad, Gujarat	10 MT + 10 MT Capacity Double Girder EOT Crane
22	B R STEEL INDUSTRIES LTD	Ahmedabad, Gujarat	10 MT Capacity Double Girder EOT Crane (2 Nos.)
23	B R STEEL INDUSTRIES LTD	Ahmedabad, Gujarat	5 MT Capacity Double Girder EOT Crane (3 Nos)
24	ASTRAL POLY TECHNIK LIMITED	Ahmedabad, Gujarat	5 MT Capacity Single Girder EOT Crane
25	Ravasco Transmission & Packing Pvt. Ltd.	Vapi, Gujarat	10+10 MT Capacity D/G EOT Crane (2 Nos.) & 2 Nos 20+20 MT
26	Reciq engineering pvt ltd	Sanand, Gujarat	10/5 MT Capacity D/G EOT Crane (1 Nos.)

# FEW OF OUR ESTEEMED CUSTOMER



Corp. off & Plant: 45/3, Changodar Industrial Estate, Ahmedabad District co-op bank line,  
 Nr. S.T. Bus Stop, Sarkhej-Bavla Highway, Changodar - 382 213. Dist. Ahmedabad.(Guj)  
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