



ARSLAN ENGINEERY PVT.LTD.

Arslan Enginery Ltd. manufactures EOT cranes ranging from 250kg to 200t and above. Our range of EOT cranes includes Single girder EOT, Double girder EOT, Under slung EOT and Light weight cranes.

Arslan Enginery Ltd. specializes in providing total customized solutions for our client's material handling requirements, helping you choose the perfect EOT crane for your requirement. We provide material handling solutions through all types of overhead cranes and lifting equipments along with service support to make sure our customers are satisfied.

For heavy duty applications Arslan Enginery Ltd. cranes can supply fully customized double girder EOT cranes as per your requirement for different duty cycles and for a diverse range of applications. Customized EOT cranes such as those with rotating crabs have also been successfully executed by us.

Precise and convenient control on up –down motion along with safe traverse motion is achieved by fitting variable frequency drives in the electric panel. Advanced pendant push button station or a radio remote control ensures a smooth and safe operation.

Today Arslan Enginery Ltd. Is India's leader in overhead cranes manufacturer by volume. With installations across a wide spectrum including the Automobile industry, Shipbuilding Industry, Power sector including Nuclear power plants numerous small scale industries; Arslan Enginery Ltd. cranes has made a mark.

Browse through the options, and do contact us for satisfaction through a perfect lifting solution!

Single Girder EOT Cranes



Single Girder EOT Cranes are most suitable for capacities ranging from 1 Ton to 20 Tons. Company provides Single Girder EOT Cranes with high Quality and superior finishing as per IS 3177 & IS 807. Single Girder EOT cranes offer following advantages.

- ◇ Cost effectiveness solutions for optimum utilization of space
- ◇ High stability for very low dead weight
- ◇ Low load on the crane run way and building structure
- ◇ Maximum hook approach
- ◇ Outstanding travel characteristics ensuring safe and gentle handling
- ◇ Capacity : 1 Ton to 20 Tons
- ◇ Span : 5 to 35 mtrs

Arslan Enginery Ltd. make Single Girder cranes are modular in construction using standard wire rope hoist. Compact and light weight design ensures lower building space, most optimum utilization of floor space and lower building loads.

Special Features of modular cranes :

- Light Weight and compact construction minimizing building loads and space saving
- Suitable for Light and Medium duty workshop applications
- All motors are TEFC with class F insulation
- Heavy duty cast steel rope guide
- Upper and Lower hook travel limit switch
- Additional Counter weight operated over hoist limit switch as option
- VVVF drives are available as an option

- Compact and lightweight festoon cable system
- Pendent and Radio remote control operation

Girders. The crane mainly comprise of bridge girder made from rolled sections such as I beams / U beams or fabricated box section. The bridge girder is supported on two end carriages, each housing a pair of wheels. The wheels are driven by motor gearbox units. A wire rope hoist is suspended below the bridge girder. The crane can be operated through pendent station hanging from wire rope hoist or through radio remote control. The pendent station can be made to move independent of hoist movement as per customer's choice.

The wire rope hoist comprise of rope drum made from seamless tube. Grooves are machined on rope drum for proper support to the wire rope. Cast Iron rope band and guide prevents wire rope jumping from grooves. The hoisting drive arrangement comprises of motor coupled to an oil lubricated, spur / helical gearbox that in turn provides the motion to the rope drum. An electromagnetic fail safe brake prevents accidental lowering of load in the event of power failure. Limit switch is provided to prevent over hoisting of hook block. Additional limit switch can also be provided to prevent over lowering of hook block.

The cross movement of hoist is achieved through the movement of wheels supported on the beam / box flange. The drive to the wheels is provided through an electric motor-gearbox unit. Fail safe brake and limit switch are provided as additional features is so desired by customer.

Power supply to the wire rope hoist is through festoon cable system. The flexible cables are supported by cable hanger or cable trolleys that move on either taught wire or enclosed C track depending on customer choice.

The single girder cranes find their application mainly for capacities up to 20 MT and Span up to 25 Meters. These are commonly used for light and medium workshop duty applications. However, in rare cases the single girder cranes are also used for hot metal ladle handling as well as with grab bucket.

Single-girder overhead travelling cranes provide you with high-quality technology at a particularly attractive price. They ensure maximum rigidity for a minimum deadweight. This keeps the load on the crane runway low, and a cost-effective design can be selected for the building. They also offer the benefits of outstanding crane geometry, resulting in exceptional travel characteristics. The Design Electric Wire Rope hoist is of optimum design for crane applications. Therefore, the entire crane installations meets your demands for greater efficiency.

Benefits

Computerised End Travel
Design of wheels
Program torsionally of
For rigid, highly
Complete welded
Crane. construction wear-resistant

Connections between the main girder and end carriages manufactured to mechanical engineering tolerances for minimum wear

Travelling Wire rope hoist of low-headroom design provides better Height Of Lift area under hook
Power supply to the crab by means of highly flexible flat cable with protective earth conductor
Control pendant push button with independent movement around the span.
Optional: Radio remote control with display and proportional pushbuttons
Optimum anti-corrosion protection of all parts thanks to pre-treatment of steel components to industry standard
Paint finish golden yellow & Hoist in azure blue.
Precise control of up / down motion and / or travel motion can be achieved by fitting Variable Frequency Drives in the panels (optional)

Specifications

Safe working Load	Upto 20 T
Span Range	Upto 30m
Height of Lift	As per customer's specifications
Class of Duty	upto class IV (M8)
Design Standards	As per IS 3177 & IS 807 / IS 3938,our Electric Wire Rope Hoists are used on these cranes

Double Girder EOT Cranes / Electric Overhead Travelling Crane



Double girder cranes are rugged in construction and find their use in a wide range of hoisting capacities and applications. The promoters of Cranes have experience of designing cranes up to 500 MT capacity.

Double girder EOT crane find their application in power plant, workshop duty, transformer industry, cable industry, process plants, steel plants, coal fields, cement plants, engineering industry to just name a few.

Heavy duty barrel winch type of double girder cranes are designed and manufactured to customer's precise needs.

Special Features of Barrel Winch Cranes :

- Capacity up to 250 MT
- Barrel Winch construction with True Vertical Lift
- Robust construction suitable for heavy duty application
- Alloy Steel, hardened, precision cut gears

- Foot mounted type fabricated gearbox casing horizontally split at centre line for ease of maintenance for hoist
- Foot mounted hydraulic thruster brakes for hoist
- Lift and speeds to suit your specific application
- Ample space on trolley for ease of maintenance
- L Type housing for Long travel wheels
- Full length (along the crane span) platform on the Long travel drive side girder
- All motors are TEFC with class F insulation
- VVVF drives are available as an option
- Option for Pendant, Radio Remote and Cabin Operation

In case of double girder crane, the trolley housing hoisting and cross traversing machinery move on the top of two bridge girders. The bridge girders are of box construction made from rolled plates. However for smaller capacities and spans, the bridge girders are also made from standard rolled sections.

For standard workshop duty crane the hoisting unit is comprised of compact wire rope hoist unit. While in case of heavy duty or higher capacity cranes, the hoisting unit is made from fabricated and machined rope drum housing left hand and right hand grooves to achieve true vertical lift. The rope drum is connected to total enclosed helical gearbox through flexible drum coupling. The gearbox is driven by electric motor either sq. cage induction type or slip ring type. Fail safe hydraulically operated thruster brake or DC brake is provided on input shaft of gearbox to prevent accidental lowering of load in the event of power failure.

For special steel mill ladle handling application, the wire rope arrangement can be supplied with four rope independent suspension to prevent falling of load in case of failure of one wire rope. The hoisting gearbox can be supplied with integral planetary arrangement and two hoisting motors for achieve hoisting motion at 50% of full speed in case of failure of one hoisting motor. Planetary gearbox can also be supplied for operating 4 rope grab bucket to achieve hoisting as well as grab opening/ closing operations.

Special features for hoisting arrangement include motorized hook rotation, two hook blocks suspended from hoist drum supporting lifting beam, special anti sway rope arrangement for rotating lifting beams, magnets suspended from hook block/ lifting beam, tong suspended from rope system, grab bucket suspended from wire rope system or hook type grab, hot metal handling crane with motorized hook rotation, fixed mast crane to prevent load sway during acceleration and deceleration.

In addition to Main Hoist (MH) an Auxiliary Hoist (AH) can also be provided on the same trolley. On customer's request, two or three trolleys can be operated on the same pair of bridge girders for special application with a facility for load summation.

The cross travel machinery comprises of motor gearbox and brake unit coupled to wheel

assemblies with live axles. The spherical roller bearings housed in L type of bearing housing are provided for heavy duty application.

The bridge girders are made of plate box construction of ample strength and rigidity. Full depth vertical diaphragms are provided inside the box for stability. Short diaphragms are provided in between full depth diaphragms to support the rail section that support the trolley. Horizontal diaphragms are provided as needed to prevent buckling of web plates.

For special applications wide box girder design is provided as per customer's requirement. In this case the electrical panels are housed inside the box girder to protect the electrical and electronic components from metallic dust as well as heat. As an alternative to wide box girder design, a completely enclosed electrical house supported on crane platform can be provided.

Full length walkway platforms are provided along the LT drive side girders for heavy and extra heavy duty cranes. Platform/ Walkways are provided on all other cranes as per customer's specifications.

Power is supplied to trolley through flexible festoon cable system. For lower capacity and light duty cranes, compact festoon cable system or drag chain system is used for trolley power supply. For higher capacity/ heavy duty cranes beam rider trolleys moving on heavy duty I beams supply power to machinery installed on the trolley.

The girders are supported at ends by rigid end carriages that house long travel wheels. The arrangement of end carriage is decided by application as well as number of long travel wheels that support the load. Crane capacity, runway rail size, duty classification of crane, LT speed are some of the factors that affect the sizing of LT wheels.

Depending on design requirement cranes with 4, 8, 12, 16 and longer travel wheels are provided for crane LT drive. The drive unit comprises of motor, gearbox and brake unit. Hollow output shaft gearbox that is installed directly on wheel axle is provided for light and medium duty crane. For heavy and extra heavy duty cranes the long travel gearbox, motor unit is mounted on a separate LT machinery platform and the gearbox is connected to Long travel wheel through a pair of half geared coupling and floating shaft.

In case of heavy duty cranes, the hoist, CT and LT gearboxes are made from MS fabricated steel duty stress relieved before machining. The helical gears are machined hob cut and are housed in precision machined housings. Gears are dipped in oil bath and are splash lubricated.

The motor speed and torque can be controlled through variable frequency variable voltage drives commonly known as VVVF or VFD drives as per customer's requirement. Slip ring motors with resistance control is also employed as per the buyer's choice.

Arslan Enginery Ltd. double-girder overhead travelling cranes offer you higher load capacity for a low deadweight. Complete crane design is done with specially developed CAD program & on computer. This facilitates modular design & helps provide faster design solution to specific requirement & solutions to consumer needs .. The particularly large lifting height is derived from the fact that the load hook can be raised between the two crane girders. Design layout & Machinery selection, Accessible crabs makes it easier for you to maintain the crane, but also ensure that your hall fittings such as lamps, heating elements or supply lines can be quickly and easily reached.

- Benefits
- 1] geometrically reliable during assembly owing bolted design.
 - 2] They offer the advantages of more height of lift as the hook can be lifted up between the girders.
 - 3] Particularly high performance due to the Unique double-girder design which enables high long and cross-travel speeds to be achieved
 - 4] Low deadweight reduces investment layout
 - 5] Possible fittings: Optional maintenance platform for maintenance of your building fittings and operation of the crane by means of radio control
 - 6] Owing to reliability and minimal maintenance, these cranes find their application in various industrial sectors.

Specifications

Safe working Load	250kg to 30 T
Span Range	Up to 40m
Height of Lift	As per customer's specifications
Class of Duty	Up to class IV(M8)
Design Standards	As per is 3177 & IS 807 .

Goliath & Semi Goliath Cranes



The goliath crane move on rails supported on floor level instead of rails placed at elevated level as in case of EOT Cranes. This eliminates the need for workshop building and hence reduction in capital cost. Goliath crane find major application in outdoors. However, the goliath cranes can also be installed inside a closed building.

Special protection is provided for outdoor duty cranes depending on application and agreement with buyer. These special features may include – corrosion allowance in design of main load bearing structural members, drilled holes on walkway to avoid accumulation of rain water, localized full cover for trolley, covers for Long travel motor/ brake, additional parking brake for Long travel motion, special paint etc

Outdoor duty goliath cranes are also checked for stability under storm condition. Special storm anchors are provided to prevent toppling of crane under storm condition.

The cross travel and long travel motor gearbox unit is designed to overcome wind resistance opposing the crane movement in addition to the power required to accelerate and move the safe working load at full speed.

Power supply to the crane is provided through DG Set, Cable Reeling drum or shrouded bus bar.

Goliath Cranes Gantry Cranes: Goliath Gantry, Goliath Gantry Crane, Crane Goliath Gantry, Cranes Goliath Gantry, Goliath Gantry Cranes India

Specifications

Safe working Load	1 T to 30 T
Span Range	5m - 30m
Height of Lift	As per customer's specifications
Class of Duty	Up to class IV(M8)
Design Standards	As per is 3177 & IS 807

Pillar Mounted (Free Standing) Jib Crane



Pillar mounted (Free Standing) Jib Cranes are best suited for work station application. These cranes are directly installed on shop floor without any need for support from building column. Available in capacity ranging from 0.5 MT to 5 MT and outreach of 8 meters, these cranes serve the need of local station without use of shop EOT Crane.

The post is made from pipe of ample strength. The jib swivels on antifriction bearings. The slewing motion is available in both manual as well as motorized variety. The jib construction is available in under braced as well as over braced options.

Wide base plate is provided at the bottom of the jib to distribute loads on foundation evenly. Hoisting unit is available in three varieties – manual chain hoist with push pull or geared trolley, electrical chain hoist with push pull / geared or motorized trolley movement and electric wire rope hoist with

motorized CT movement. VVVF drive is available for hoisting, CT and Slewing motion for smooth start and stop and Radio remote control are available for remote operation of the crane.

Specifications

Safe working Load	125kg to 10 T
Span Range	Up to 10mtrs
Height of Lifts	As per customer's specifications
Class of Duty	Up to class IV(M8)
Design Standards	As per IS 3177 & IS 807,our Electric Wire Rope Hoists are used on these cranes

Crane Capacity Upgradation



Crane capacity upgradation can save over 50% of cost as compared to replacement of existing crane by new. However, Crane upgradation needs high degree of understanding of crane design and analytical ability to carry out accurate reverse engineering. In most of the cases manufacturing drawings of existing crane are not available with the crane user and in such a situation detailed study of existing crane is essential to determine its suitability for capacity/ span upgradation.

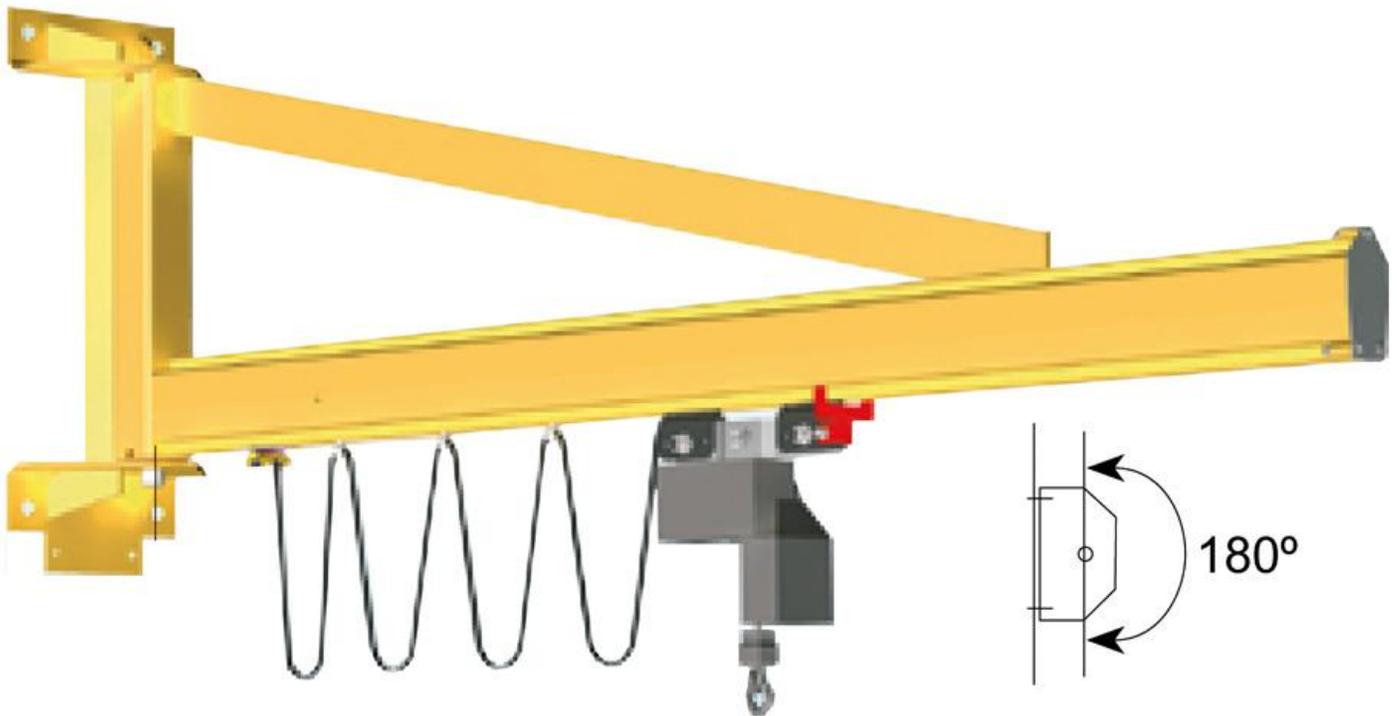
Study of Crane Operation to determine duty cycle, Crane audit, Visual observation, dimensional verification, NDT testing of plates to determine residual thickness of load bearing structures, measurement of speeds of Hoist, CT and LT motions, measurement of motor currents, measurement of crane girder deflection under load and analysis of structures using computerised

software such as STAAD & ANSYS are some of the technique that we employ to determine whether the crane is suitable for upgradation.

We also undertake upgradation of complete electrical system of crane. This may include replacement of slipring motors by Sq Cage motors with VVVF Control, provision of compact festoon cable system / drag chain in place of open wire system for trolley power supply, replacement of Angle Type DSL / open wire DSL by Shrouded Bus bars, Changing of Electrical Cables and Installation of Electronic Load weighing system/ Overload limiter on Crane.

Our design team has hands on experience of designing cranes for wide range of application ranging from Workshop duty, Power Plant, Cement Plant, General Engineering to Steel Mill duty. Our team has designed Ladle Handling Cranes, Magnet Cranes, Grab Bucket Cranes, Tong Cranes, Rotating Beam Crane up to 500 MT Capacity. Our head of Design has more than 40 years of experience in Design of EOT and Gantry Cranes.

Wall Mounted Jib Crane



Wall or Column mounted Jib Cranes are best suited for work station application. These cranes are mounted on building column made from steel. Special design is also available for mounted the Jib crane on RCC columns. Available in capacity ranging from 0.5 MT to 10 MT and outreach of 10 meters, these cranes serve the need of local station without use of shop EOT Crane.

The Jib is made from rolled beams. In over braced construction, tie members are provided to achieve optimum weight of the jib. For smaller capacities and outreach, the jib is also available in under braced construction. Articulated Jib arm is also available to meet special needs of workshop. The slewing motion is available in both manual as well as motorized variety.

Hoisting unit is available in three varieties – manual chain hoist with push pulled or geared trolley, electrical chain hoist with push pull / geared or motorized trolley movement and electric wire rope hoist with motorized CT movement. VVVF drive is available for hoisting, CT and Slewing motion for smooth start and stop and Radio remote control are available for remote operation of the crane.

Wire Rope Hoists



Wire rope hoists are light weight yet are rugged in construction. The wire rope hoists comprised of steel rope drum that is machined accurately with grooves for supporting wire rope. The rope drum is connected to motor through totally enclosed oil lubricated spur / helical gearbox. Fail safe electromagnetic brake provided on the input side of drive to prevent accidental lowering of load in the event of power failure. Steel wire rope with fiber core is supplied as a standard design. Stainless steel wire rope with Stainless steel sheave and bush bearings are supplied for corrosive atmosphere as per customer's requirement

True vertical lift with 2 x 2 falls arrangement is also available in even smaller capacities as a special feature. The trolley moves on straight track in standard design. Bogie type trolley is provided to negotiate curves when so required by customer.

Motors are Sq cage, totally enclosed fan cooled type with class F insulation.

Upper and lower hook travel limit switch is provided as

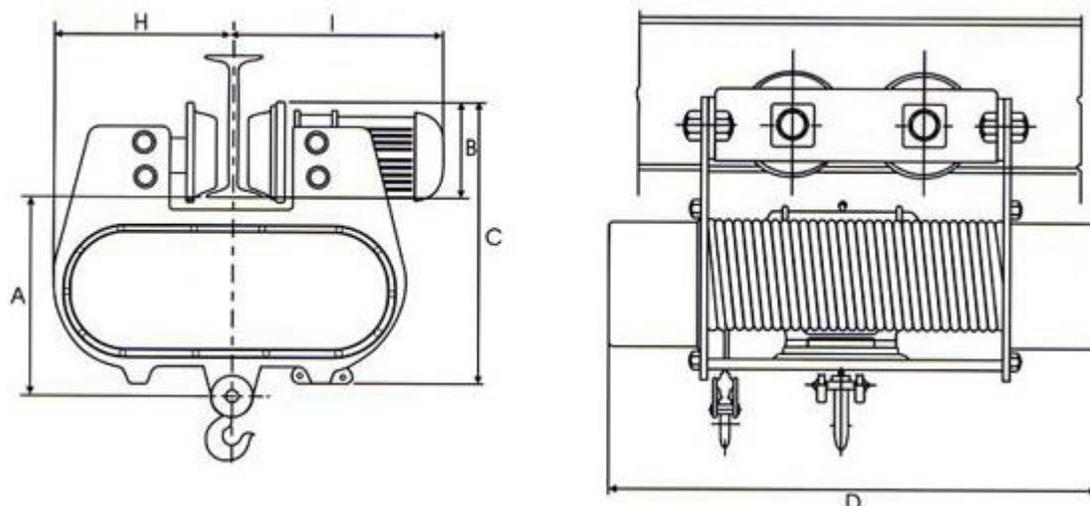
a standard feature. Additionally Counter weight operated over hoist limit switch is also available as an option.

Standard design the DOL contactor starters are provided for motors. VVVF drives are supplied as per customer's requirement.

Heavy duty cast iron rope band cum guide is provided. The cast iron rope band and guide is much more robust in construction and do not easily break as in case of plastic rope guide.

Double speed motors are also available for hoisting and CT motion as per customer's need.

Standard Electric Wire Rope Hoist :



Technical Specification :

S.W.L Kgs	Height of lift in Mts	No. of Falls	Speeds mpm		Motor H.P.		Flange Width of I Beam	Wire Rope dia	Dimension (m.m)						Approx. Wt. in Kgs
			Hois- ting	CT	Hois- ting	CT			A	B	C	D	H	I	
500	6	2	3	15	0.75	0.25	90-125	6	425	175	425	650	290	400	150
1000	6	2	3	15	1.5	0.25	90-140	8	550	175	425	650	290	400	170
2000	6	2	3	15	3.0	0.5	100-140	10	650	200	650	900	310	520	400
3000	6	2	3	15	5.0	1.0	125-140	12	750	200	900	1050	350	550	450
5000	6	4	3	15	7.5	1.0	140-210	12	950	200	1050	1200	400	550	550
7500	6	4	3-3.5	12	10	1.0	150-210	16	850	250	1200	1700	620	720	1000
10000	6	4	2-2.5	12	12.5	1.5	150-210	16	1000	250	1700	1700	620	720	1200
15000	6	4	2	12	15	2	225-250	16	1400	300	1850	1850	750	900	1600
20000	6	4	2	12	20	2	225-250	16	1600	325	1850	1850	750	900	2200

Some of the special features are -

- 1] Special < Quickbrake > adjusting system takes only a few minutes to adjust ,thus reducing down time.
- 2] Trolley is so designed ,that it is adaptable to wide variations in I-Beam Sizes.
- 3] Built-in safety limit switches control top & bottom positions of the hook.
- 4] Hoists conforming to Class III AND Class IV are available.
- 5] Hoist motors are designed for Class 'F' insulation which is superior to class 'A' , 'E' or 'B' types of insulations.

Design Specifications -

MOTOR - The motor is three phase squirrel cage conical rotor type working on 440 Volts , 50c/sec A.C. Supply This motor is specially designed for hoist and crane and is insulated by class "F" type of insulation according to B.S.: 2613 .The starting and stalling torques of this motor are 220 & and 290 % of the full load torque. The motor is rated at 40 % E.D.

BRAKE - The axial movement of the rotor is one of the characteristics of the conical rotor type motor . This characteristic taken advantage of in the actuation of the brake .When the motor is started the rotor is axially pulled into the magnetic centre of the stator and the brake is released .As soon as the current is cut off the brake spring presses the brake disc again the cover and the brake is applied. The braking torque is 100 % above the motor torque at the rated load. The maintenance and adjustment of the brake is very simple due to quickbrake system and can be done without removing any part. The brake disc and brake end cover are fitted with needle /roller bearings .The Brake disc and brake end cover both made of high grade cast iron and brake lining is of 'Ferodo' type.

GEAR BOX - The gear box is made out of high grade cast iron.The precision spur gears are machined from alloy steel and are fitted with ball/needle roller bearings.The gear box is filled with grease. (Oil Lubricated gear box can be supif specifically asked).

Rope Drum - The Rope drum is rolled welded and precision machined. The rope drum is supported on large diameter rollbearings on both ends and the drive is through internal gears . The ample drum diameter ensures the best possible working condition for the wire rope.

Rope Guide - The rope guide is made of a special aluminium base alloy. The rope tightener is built-in the rope guide.

The rope guide moves on the drum like a nut and prevents the rope from overriding and loosening.

Rope- Generally 6 X 37 Construction fibre core, pre-formed type, ungalvanised wire rope is supplied. (Galvanised and steel core wire ropes can also be supplied, if specifically asked for.)

Main Housing - All hoist parts are enclosed in the main housing thus forming a better looking integral unit.

The main housing like the rope drum is also of rolled and welded construction, equipped with mounting bracket.

Limit Switches - Every hoist is provided with built-in limit switches to control the top and bottom positions of the hook

Tappets can be adjusted to any position in between the range provided. These limit switches are actuated by the rope guide

Control - The hoist is controlled by a pendant push button. Supply to the pendant push button is of 110 Volts as per IS Sp

Microspeed- All Hoists can be fitted with a micro speed attachment which reduces the hoisting speed to 1/10th of the main

speed attachment works independent of the load and main hoist. There is a separate control for the micro speed. The arrangement

handling of bulky heavy and delicate loads.

inspection tests, the hoist is approved for despatch.

Specifications

Safe working Load	Up to 30 T
Height of Lift	Up to 30 m
Class of Duty	up to class IV(M8)
Design Standards	As per IS 3938

Goods Lifts / Cage Hoists

For a well-engineered installation, the choice of Goods Lift / Cage Hoist requires a close consideration of such factors such as size, weight of the materials to be transported, the method of handling, etc. Directly and indirectly the results of properly planned Goods Lift / Cage Hoist show up in increased material handled volume and greater earning power.

Our Goods Lifts consist of Cage Hoist Arrangement. These types of lifts are suitable for Lift Shaft / Lift Well as well as self-supporting steel structure. Joist-O-Mech has unique arrangement of providing four guides for balanced loading & efficient drive. The goods lift is being operated by push button station fixed outside the cage on respective floors.

The landing doors are provided with mechanical and electrical locking arrangement, while Cage door is provided with electrical interlocking. Hence unless Cage and landing doors are closed properly lift cannot be started. Additional Rotary limit switch is provided on Rope Drum End shaft, besides gravity limit switch is provided for extra safety. In case of failure of floor Level Limit switch at Gr. Floor, Rotary Limit switch comes into operation also for over hoisting gravity limit switch is provided, power to motor gets cut off by gravity limit switch upon over traveling of the cage.

Every single rope is having rated capacity with min. 6 F.S. which in four fall construction will provide four times the required F.S.

The cage is made of rolled steel sections and sides are covered with bumped sheets. Sides & Ceiling is provided with segmented interlock panels which are welded from outside which provide rigidity & strength to bear the impact while loading and unloading of material. Cage top is covered with M.S. Sheets and bottom is covered with ms plate. Collapsible doors are provided on cage as per entry and exit position.

The cage is being guided with Guide Shoes on guide rail. Guide Shoes are provided to ensure that the cage travel remains in perfect true vertical direction.

JOIST-O-MECH Cage Hoists are also called as - Goods Hoists , Cage Lifts , Freight Elevator ,Freight Lift , Goods Elevator , Material Hoist , Material Lift , Hoist Lift Etc.

VVF Drives & Microprocessor-The modern microprocessor control system which features software designed for use with VVF drives as well as our control and safety components besides substantial energy savings .VVF Drives facilitates Dual speed which provides shorter travel time & smooth handling of cage at every floor.

Flameproof Goods Lifts / Cage Hoists

We are expert in goods lifts suitable for hazardous area gas groups I, IIA, IIB, & IIC along with all the electrical duty certified by Central Mining Research institute Dhanbad.

Machine Room Less Goods Lifts / Cage Hoists

These type of system eliminates requirement of machine room .In such cases machinery is provided on any one floor but on one side of the Lift Shaft .

Capacity: 500 Kgs to 10,000 Kgs.

Portable Gantry Crane



Lightweight portable gantries are available to meet needs of warehouse and small workshops. These cranes can be easily dismantled and transported to another location in a truck.

The portable gantry crane is provided with solid rubber or rubber tyred caster wheels that move on warehouse floor. The gantry can be easily pushed manually at desired location. The portable gantry crane is available in capacities ranging from 125 kgs to 2,000 kgs with a span up to 5 meters. These

cranes are best suitable for light duty application and are much more economical than permanent shop cranes.

Transfer Cars

Transfer cars to meet varied need of industry are supplied by Arslan Enginery Ltd.

Self Propelled Ladle Transfer Car

Self propelled Ladle Transfer car is designed to move on straight track for inter bay transfer of steel ladles.

The transfer car frame is made from fabricated steel plates / rolled section of ample strength. The transfer car top is covered with refractory lining to protect the structure from heat and metal spillage.

Double flanged, straight tread wheels are provided for travel motion. The travel drive comprise of Sq Cage / slip ring motor, heavy duty helical gearbox, floating shafts and half geared couplings. In certain application carder shaft is used in place of floating shaft and half geared coupling. Electro hydraulically operated/ DC electromagnet brake is installed on gearbox input shaft to stop the motion when power is switched off.

Power supply to the transfer car is provided through cable reeling drum, insulated festoon cable system or covered shrouded bus bar as per the need.

For special application, transfer car is provided with bogies that can negotiate curved track.

Self-Propelled Transfer Car for Scrap box

Self-propelled Scrap Box / Scrap Bucket Transfer car used for inter bay transfer of steel scrap. These transfer cars are designed to move on straight track. Spring loaded platform is provided to reduce shock loads due to falling of scrap from magnet crane.

The transfer car frame is made from fabricated steel plates/ rolled section of ample strength.

Double flanged, straight tread wheels are provided for travel motion. The travel drive comprise of Sq Cage / slip ring motor, heavy duty helical gearbox, floating shafts and half geared couplings.

Electro hydraulically operated/ DC electromagnet brake is installed on gearbox input shaft to stop the motion when power is switched off.

Power supply to the transfer car is provided through cable reeling drum, festoon cable system or covered shrouded bus bar as per the need.

Inter Bay Transfer car

Inter bay transfer cars are used for transferring material from one bay to another. The transfer car design is made based on the application.

The capacity can vary from 5 MT to 300 MT and the platform size can be big 4 meters x 10 meters in case of special applications.

The drive to these transfer car can be through motor gearbox united mounted on the car with external power supply (self propelled type), Wire rope Winch type drive or through Battery power.

Transfer cars to move on curved track

Transfer cars that move on curved track are similar to inter bay transfer car except these are designed to negotiate curves. The power supply is through rechargeable battery.

Crane Attachments



C Hooks

C hooks are used mainly steel industry for handling steel coils with Eye in Horizontal Position. C hooks of 5T to 40T Capacity are available to meet specific need of customer. C hooks are made from heavy steel plates. The cutting is done with critically stressed zone placed along the direction of rolling. Soft wearing pads are provided on base and vertical leg if so required by customer to avoid scratching on finished product. Appropriate counter weight is provided to balance the hook.

Motorized Horizontal Coil Tong

Motorized horizontal coil tong is used for handling coils with Eye horizontal position. The arms are supported from horizontal member of tong. Rack and pinion arrangement is provided for expanding and collapsing the tongs. Suitable lifting Eye is provided on the tongs for lifting by shop crane hook. Proximally limit switch is provided to sense contact with coil being lifted. Motorized rotation is also available as so required by customer.

Vertical Coil Tong

Vertical coil tongs are used for lifting coil with Eye in Vertical direction. Made from high tensile plates, the coils is gripped by tong jaws. Automatic lock is provided to keep the tong in open position for engaging with coil before lifting.

Lifting Beam

Lifting beam are used in steel plants for lifting hot metal ladles and in engineering industry/ power plants for lifting heavy loads using two cranes in tandem.

Ladle handling lifting beams can be designed for suspension from a single C shank or Ramshron hook with two laminated plate hooks or can be supported by a set of pair of pulley system and forming integral part of the crane. Heat shields, wearing liner in lifting eye, forged clevis are some of the special features offered to meet customer requirement.

Lifting beams are used for load handling with two cranes in tandem are generally high capacity and are designed to specific requirement of customer. These can be supplied with plate hooks, lifting pins or with a central shaft supported on bearing as per the specific handling requirement of customer. **Arslan Enginery** Cranes has supplied lifting beam of 280 MT capacity and we can supply lifting beams to handle loads up to 500 MT or more.

Special Purpose Machines



Arslan Enginery Ltd. supply special purpose machines to meet the specific need of Industry. Be it hydraulic Up ender unit for coils to make Eye Horizontal to Vertical and vise versa; mechanically operated work platform for transformer industry or Core Building Fixture for Transformer

industry, we have solution available for your specific needs.

Under Slung Cranes

Specifications

Safe working Load	125kg to 10 T
Span Range	Upto20mtrs
Height of Lift	As per customer's specifications
Design Standards	As per is 3177 & IS 807 ,our Electric Wire Rope Hoists are used on these cranes

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