

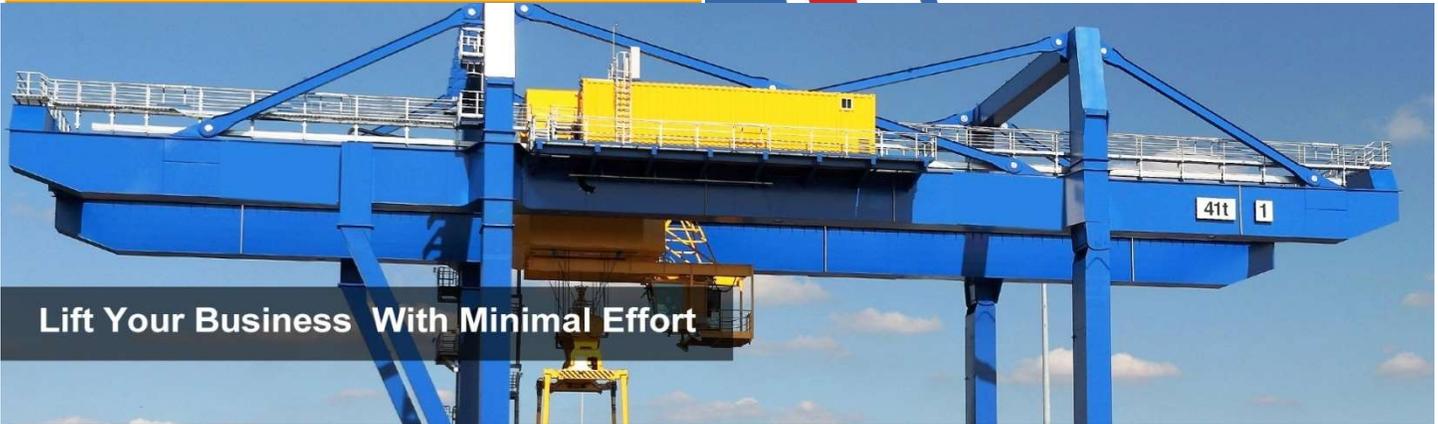
HERCULES MECHANICAL WORKS

Wire Rope and Chain Electric Hoist



An ISO 9001:2000 Company

60 Years
And Still Lifting



Lift Your Business With Minimal Effort

E O T CRANES	SEMI E O T CRANES
H O T CRANES	WIRE ROPE ELECTRIC HOIST
CHAIN TYPE ELECTRIC HOIST	CHAIN PULLEYS BLOCKS
PILLAR MOUNTED- WALL MOUNTED JIB CRANES	GOLIATH CRANES- EOT-SEMI EOT & MANUAL
CAGE HOISTS	FLOOR OPERATED GARAGE CRANES
OVER HEAD TRAVELLING TROLLEYS	FLOOR OPERATED GANTRY CRANES
1. 'ELEPHANT BRAND CHAIN ELECTRIC HOIST'	CAPACITY: 0.5 TO 15.00 TONNE CLASS II DUTY AS PER I.S. 6547
2. 'ELEPHANT BRAND WIRE ROPE ELECTRIC HOIST'	CAPACITY: 0.25 TONNE TO 40 TONNE AS PER I.S. 3938
3. 'ELEPHANT' BRAND SPUR GEARED CHAIN PULLEY BLOCKS	CAPACITY: 0.5 TONNE TO 40.0 TONNE WITH GRADE 80 ALLOYS STEEL CHAIN FOR 2.0 TONNE & ABOVE AS PER I.S. 3832 (ALL CHAIN PULLEY BLOCKS UPTO 10 TONE CAPACITY ARE ISI MARKED)
4. 'ELEPHANT' BRAND TRAVELLING TROLLEY	CAPACITY: 0.5 TONNE TO 40.0 TONNE EASY & CONVENIENT FOR VARIETY OF BEAM SIZE, EASY MOUNTING
5. SINGLE GRIDLE & DOUBLE GRIDLE E.O.T. CRANE, CIRCULAR H.O.T. & E.O.T. CRANES, GANTRY CRANE, JIB CRANE ETC.	WITH VARIOUS CAPACITIES AS PER CLIENTS REQUIREMENT. JIB CRANE HAVING ROTATION OF 180° & 360°.



HERCULES MECHANICAL WORKS

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HERCULES MECHANICAL WORKS



ELEPHANT BRAND – SINGLE GIRDER – E.O.T CRANES

Single girder cranes are designed to cover a wide range of modern industrial demands, providing excellent value for money with no compromise on performance. Our single girder crane has reduced wheel loads, saving costs on new support structures and increased lifting capacities on existing structures. Our cranes offer various crane beam to end carriage constructions to ensure optimum use of headroom available. Hoists are offered as standard in low headroom format running on the bottom flange of the beam

Industrial Applications of Single Girder EOT Cranes:

These are moderate capacity workshop cranes manufactured for a capacity upto 20 Tonnes. These type of cranes are normally operated from floor through pendent. This is also suitable where head room (bracket top to ceiling) is less.

ELEPHANT BRAND -Technical Specifications for Single Girder EOT. Crane							
Capacity in Tonnes	Span in mm (S)	Head Room Clearance mm (H)	End Clearance in mm A1/A2	Hook approach L1/L2	Wheel Base in mm (W)	Wheel Load in Tannes (approx)	Weight in Tonnes (approx)
1	5000	700	220	750	2000	0.85	1.4
	10000	800	220	750	2500	1.05	2.1
	15000	850	220	750	3000	1.30	3.1
2	5000	800	250	750	2000	1.50	1.71
	10000	900	250	750	2500	1.65	2.2
	15000	1000	250	750	3000	1.95	3.4
	20000	1200	250	750	4000	2.35	5.0
3	5000	800	250	850	2000	2.10	2.2
	10000	900	250	850	2500	2.25	2.7
	15000	1000	250	850	3000	2.65	4.3
	20000	1250	250	850	4000	3.25	6.7
5	10000	0950	250	950	2500	3.45	3.3
	15000	1200	250	950	3000	4.10	6.0
	20000	1300	250	950	4000	4.50	7.6
7.5	10000	1000	250	1000	2500	5.00	4.5
	15000	1250	250	1000	3000	5.50	6.6
	20000	1400	250	1000	4000	6.00	8.5
10	10000	1100	250	1100	2500	6.55	5.2
	15000	1350	250	1100	3000	7.15	7.6
	20000	1500	250	1000	4000	7.70	9.8
20	10000	1200	250	1100	2500	9.50	6.8
	15000	1500	250	1100	3000	10.00	9.7
	20000	1600	250	1100	4000	10.80	12.5



HERCULES MECHANICAL WORKS

Double Girder EOT Cranes



ELEPHANT BRAND –DOUBLE GIRDER – E.O.T CRANES

Double girder cranes give a better height of lift in a given headroom as the hook travels between the beams. They are available in higher capacities than single girder and for heavy duty applications they can be supplied with open winch hoists. Normally double girder cranes have 25 tonnes capacity and also in higher capacities. One simple advantage of the double girder design is the possibility to fit a walkway to the crane which gives maintenance access to many critical parts of the crane and often to overhead lighting etc.

Capacity in Tonnes	Span in Meters	Head room clearance in mm H	Wheel Base in mm W	Hook approach in mm L.H.L	Hook approach in mm R.H.L	End clearance in mm A1/A2	Wheel load of crane in tonnes (approx)	Total Wt. of crane in tonnes (approx)
5	10	1600	3800	900	800	250	5.8	10.0
	15	1600	4000	900	800	250	6.6	12.0
	20	1700	4200	900	800	250	7.2	15.0
7.5	10	1700	3800	950	850	250	8.3	12.5
	15	1700	4000	950	850	250	9.3	15.5
	20	1800	4200	950	850	250	10.0	18.0
10	10	1800	3800	1000	900	250	9.5	13.0
	15	1800	4000	1000	900	250	10.5	16.0
	20	1900	4200	1000	900	270	11.5	19.5
15	15	2200	4000	1000	900	275	16.7	21.0
	20	2300	4400	1000	900	275	16.5	25.0
20	15	2400	4200	1100	900	300	18.4	24.0
	20	2500	4400	1100	900	300	19.3	27.5
25	15	2600	4400	1150	1000	300	21.6	26.0
	20	2800	4600	1150	1000	300	22.8	30.5
30	15	2800	4600	1200	1000	300	26.3	30.0
	20	3000	4800	1200	1000	300	28.2	36.5
40	15	3000	4800	1300	1050	325	31.9	35.5
	20	3200	5000	1300	1050	325	33.4	40.0
50	15	3200	5000	1400	1100	350	37.3	41.0
	20	3500	5200	1400	1100	350	38.9	47.5
60	15	3800	5600	1600	1200	400	49.5	60.0
	20	4000	5800	1600	1200	400	52.0	71.0
80	15	4000	5800	1900	1300	450	52.0	78.0
	20	4200	6000	1900	1300	450	53.5	90.0
100	15	4200	6000	1900	1400	450	59.0	95.0
	20	4500	6200	1900	1400	450	61.0	110.0



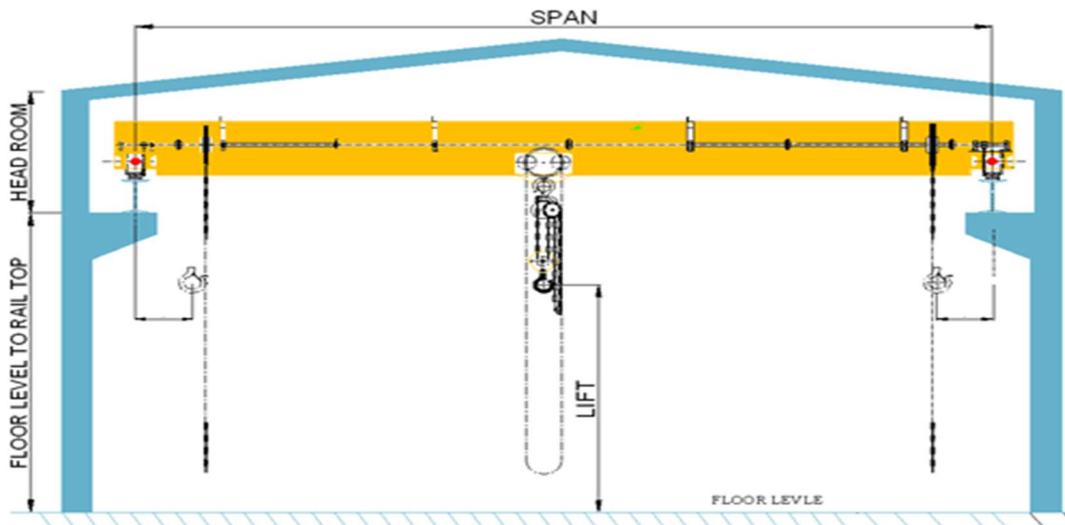
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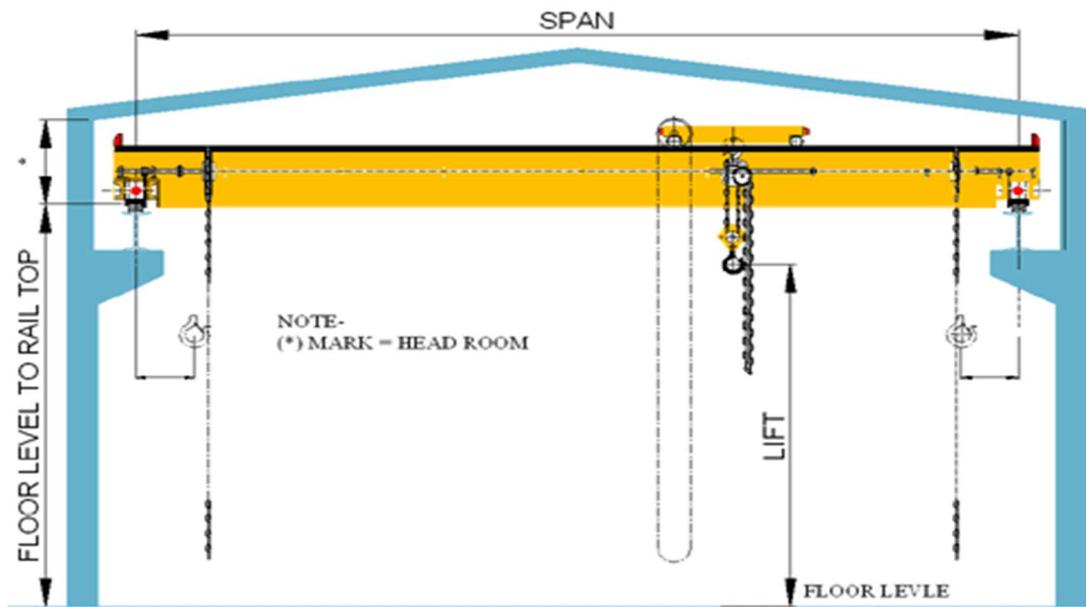
ELEPHANT BRAND – H.O.T CRANES-SINGLE/DOUBLE

HOT-cranes (Hand Operated Overhead traveling Cranes) are designed to cover a wide range of modern industrial demands, providing excellent value for money with no compromise on performance. It is designed with state of art Latest techniques, strict quality checks at various stage and final overload testing assures high reliability and safety..

SINGLE GIRDER H.O.T. CRANES

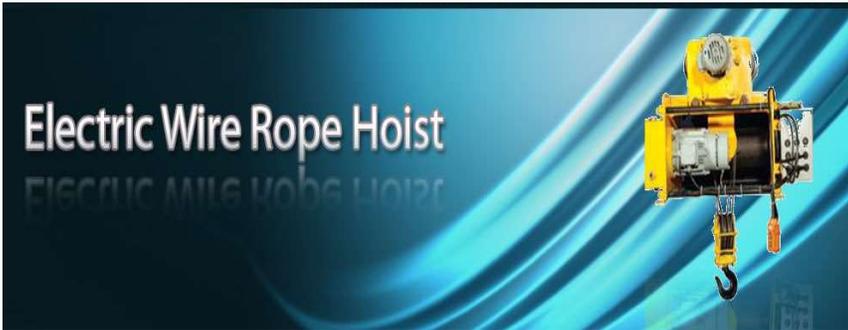


DOUBLE GIRDER H.O.T. CRANES

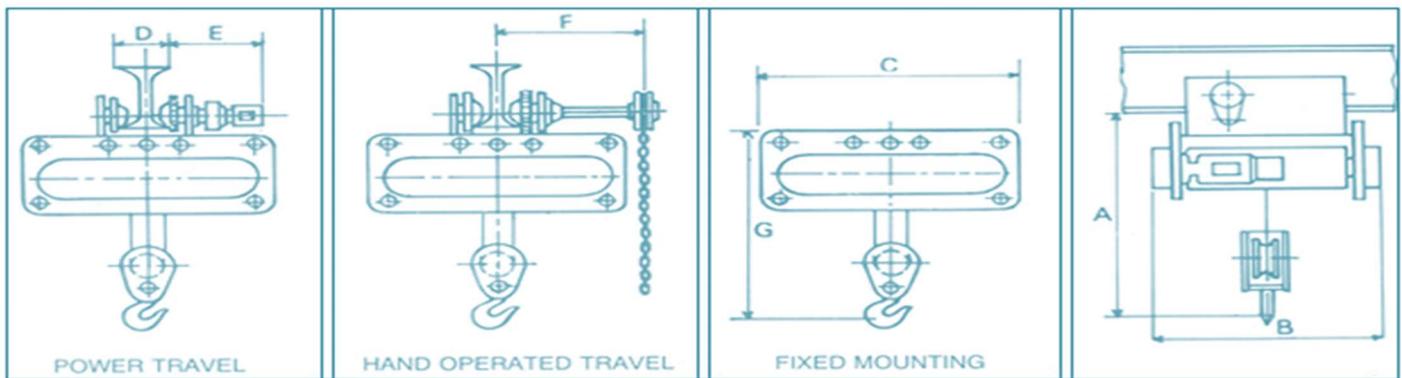




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ELEPHANT BRAND - ELECTRIC WIRE HOISTS



Basic Parameter

Model	Capacity (Kgs)	Lift (MTS)	Speed		Motor (H.P.)	
			HOIST M/Min	Travel M/Min	Hoist (H.P.)	Travel (H.P.)
HMW - 1220.25	250	12	6	15	0.5	0.25
HMW - 640.5	500	06	3	15	0.5	0.25
HMW - 1220.5	500	12	6	15	1.0	0.5
HMW - 641	1000	06	3	15	1.0	0.5
HMW - 1221	1000	12	6	15	2.0	0.5
HMW - 642	2000	06	3	15	2.0	0.5
HMW - 1222	2000	12	6	15	3.0	0.5
HMW - 643	3000	06	3	15	3.0	0.5
HMW - 1223	3000	12	5	15	5.0	1.0
HMW - 645	5000	06	3	15	5.0	1.0
HMW - 1225	5000	12	5	15	7.5	1.0
HMW - 847-5	7500	08	3.0	15	7.5	1.0
HMW - 8410	10000	08	3.0	15	10.0	2.0

HIGH EFFICIENCY:

- 1) These are designed for high speed operation to increase productivity.
- 2) Precision workmanship of all components minimises losses and increases efficiency.

• SHORT OPERATION:

- 1) Smooth operation is ensured by gears having precision machine cut teeth subjected to heat treatment.
- 2) Hoists are provided with antifrictional bearings on all high speed rotating parts.
- 3) Machined component parts are checked by limit gauges.



HERCULES MECHANICAL WORKS

ELEPHANT BRAND - ELECTRIC WIRE HOISTS- 2

General Dimensions ELEPHANT BRAND							
Head Room A M.M.	B M.M.	C M.M.	D M.M.	E M.M.	F M.M.	G M.M.	H M.M.
450	800	466	100	345	380	400	175
465	800	466	100	345	380	415	175
505	825	545	100	360	390	455	190
530	825	605	100	365	390	480	190
575	880	680	125	370	440	525	310
600	880	680	125	375	440	550	310
770	890	800	140	375	440	720	440
800	890	800	140	375	440	720	440
925	1040	900	140	390	490	875	760
1000	1040	900	140	450	580	950	760
1075	1140	1000	180	450	580	1025	920
1150	1240	1000	180	450	580	1100	920
1250	1370	1125	210	500	590	1200	975

SPECIFIC DESIGN ADVANTAGES OF 'ELEPHANT BRAND' WIRE ROPE ELECTRIC HOIST:

DESIGN:	Hoists are designed for all classes of application as per IS-3938. Standard Design is for Class II.
MODULAR CONSTRUCTION	Hoist is assembled from different independent units viz. Hoisting Gear Box, Hoisting Motor with brake, Rope Drum, Electric Control Panel and Travelling Trolley. All these units are separately accessible and promptly disassembled to simplify repairs, reduce maintenance cost and downtime.
MAIN FRAME:	M.S. Plates are fastened with number studs to withstand the load of the different independent units attached to it.
WIRE ROPE	Hoisting rope comply with the Indian standards. The leading rope taken by the Drum, does not slip sideways when slack. The factor of safety, on the nominal breaking strength of the rope is six.
ROPE DRUM:	Grooved Drum, Seamless Pipe of adequate length to be wounded in one layer and to provide proper support for the rope to minimise abrasive wear is provided. Drum Shaft revolves on Ball Bearings for ensuring smooth running.
ROPE GUIDE:	Rope Guide is in two halves, ensuring easy accessibility. It encircles the Drum completely so that the rope may not uncoil even when the Hoist is in unloaded condition
MOTOR	Hoist Motor is an HTSC parallel rotor machine. Specially rated for Hoist duty, with minimum 40% CDF Rating and class B insulation. The unit is an IP 54 dust and damp proof enclosure, flange-mounted to the main frame of the Hoist. When creep speeds are required same is achieved by way of DC Clutch and Pony-Motor.
GEAR BOX	Hoist Gear Box has specially treated gears for high wear resistance. Each Geared Shaft assembly is supported on baylor roller bearings, to ensure smooth, low-friction operation, the gear trains are grease lubricated. Also oil immersed Gear Box can be provided on request.
BRAKE	Electromagnetic Fail-safe type brake mounted externally on the rear end of the Hoisting Motor ensuring easily accessibility.
HOOK BLOCK:	The Hook Block is tested to 150% of full load before assembly. The rope sheaves are fully guarded with protective steel castings. All sheaves rotate on Ball Bearings.
TROLLEY	It consists of M.S. Plates forming side frame assembled with Runner-Wheels. Runner Wheels are mounted on Double sealed Ball Bearings. Trolley is adjustable for various I Beam sizes.
LIMIT SWITCHES:	A Limit Switch is built in as one of many safety features preventing accidental over-hoisting and over lowering of the hook block. The trip positions are adjustable to allow correct setting for installation.
ELECTRIC CONTROL PANEL:	Controls are mechanically and electrically interlocked to prevent inadvertent operation of opposite motions and are all housed in an IP 54 dust and damp proof enclosure. A low voltage control system of 110 Volts. Minimises electrical hazards for the operator.
GUARANTEE:	A Guarantee is provided for the repair and replacement, which proves defective material or workmanship within one year of the sale on Ex. Works Basis. However electrical appliances are not covered in this guarantee.
MICRO SPEED ARRANGEMENT	Microspeed arrangement, reducing normal speed by approx. 10% is provided on request at extra cost.
TEST CERTIFICATE	Every ELEPHANT Hoist is tested on 125% of its safe working load, before despatch and is issued with a Test Certificate.
TYPES MODELS	<ul style="list-style-type: none"> - Power travel. - Hand operated travel. - Pull-Push travel.

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HERCULES MECHANICAL WORKS



ELEPHANT BRAND -ELECTRIC CHAIN HOISTS

ELEPHANT' BRAND ELECTRIC HOIST Are light in weight, have high efficiency, consume less power and are long lasting... 'ELEPHANT' Brand Chain Electric Hoist are designed for higher factor of safety. All components are precision made and assembled with great care by use of jigs and fixtures for noise less operation.

ELEPHANT BRAND- CHAIN ELECTRIC HOIST WITH Squirrel Cage motor or Conical rotor motor											
Capacity in Kgs	500	1000	2000	3000	5000	Capacity in Kgs. Dimension in m.m					
Chain falls Nos.	2	2	2	2	2	cap.	500	1000	2000	3000	5000
Laod Chain Size in mm	8	8	8	9	10	A	690	755	800	870	980
Grade	30	40	80	80	80	B	330	330	330	355	370
Hoist-speed mts/min	5.0	5.0	2.5	2.5	2.5	C	87	87	87	100	100
Hoist motor H.P.	1	1.5	1.5	3	5	D	425	465	465	565	600
Weight with chain for 3 mtrs lift (approx.) /in kgs.	73	82	87	115	130	E	210	210	210	265	280
Extra weight per additional Mts lift / in kgs	2.72	2.72	2.72	4.0	5.0						

Dimensions & Specification of 7.5 T. & 10 T. Chain Hoist-on request

LOAD WHEEL:	Steel cast, machine finished to suit load chain.
LOAD CHAIN:	Wear resistance, heat treated, grade 80 special alloy steel link Chain as per I. S. 6216.
GEARS:	Precision cut special steel spur gear with both the ends mounted on Ball Bearings for smooth operation.
BRAKES:	Disc type, spring loaded, brakes are provided for heavy duty operations. Brakes are of fail-safe type, which means in case of failure of electric supply brake acts immediately. Brakes are mounted on the non-driving end of the motor and are easily accessible.
HOOKS:	Heavy duty steel forged hooks conforming to I.S. 8610 are supported on thrust bearings for free swivelling.
TROLLEY:	It consists of M. S. side plates and trolley wheels are mounted on ball bearings for smooth running.
LIMIT SWITCHES:	To prevent over-hoisting and over-lowering, limit switches are provided as a safety device.
ELECTRIC CONTROL PANEL:	It consists of airbreak type direct on line, heavy duty reversing contractors low voltage transformer with fuse. If customer desires, overload relay can be provided at extra cost.
PENDENT PUSH BUTTON:	Robust heavy duty push button switch for operating at 110 volts is suspended from the hoist. Push button is provided with Wire Rope to prevent pull on cable.
RATING	The Hoists are suitable for class II medium duty operations.
GUARANTEE	A GUARANTEE is provided for the repair and replacement, F.O.R. THANE, of any part which proves defective in material or workmanship within ONE YEAR of sale.

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CHAIN PULLEY BLOCK



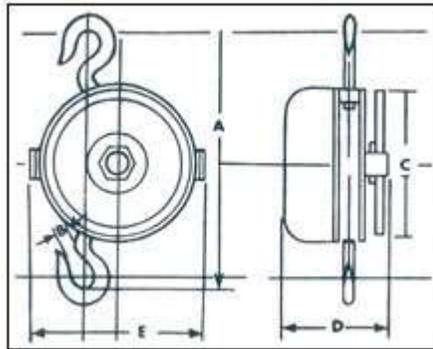
ELEPHANT

TRIPPLE (SPUR) GEARED CHAIN PULLEY BLOCKS

WITH GRADE 80 ALLOY STEEL CHAIN

(FOR 2 TONNE & ABOVE)

Capt. 0.5 Tonne to 40 Tonnes.



I.S.I. Licence No. CM/L. 1606748. (0.5 Tonne to 10 Tonnes.)

Load Wheel	: Steel Casting Mounted on two nos of Ball Bearings.
Gears	: All Gears are cut from Special steels and case hardened having full depth of addendum conforming to AGMA Standards.
Hooks	: Conforms to I.S. 8610 Grade P, Steel Forged to withstand, shock loads free to swivel under load.
Brakes	: Positively Self Acting at any load position, Screw and Friction Disc Type.
Mono Block	: With low Headroom Pulley Block of all the Capacities can be made & Supplied against specific requirements, fixed with Travelling Trolleys` s
Test	: Each Chain Pulley Block is tested at 50% overload as specified in I.S. 3832 and carries I.S,I. Mark.
Guarantee	: Our Chain Pulley Block carries Guarantee of one year from the date of sale against any parts which proves defective in material or workmanship Ex. Our Works Thane,
Other Products	: MANUAL OR ELECTRIC TROLLEYS, CHAIN & WIRE ROPE ELECTRIC HOISTS, H.O.T. E.O.T. CRANES, JIB CRANES, GOLIATH CRANES & OTHER MATERIAL HANDLING EQUIPMENTS.

Principal Dimensions in Millimeter (Approximate)

Capacity Tonnes	0.5	1.0	2.0	3.0	5.0	7.5	10.0
A	350	430	530	650	700	900	920
B (Minimum)	26	32	37	42	53	67	75
C	160	180	180	180	210	210	210
D	195	215	215	225	225	225	250
E	170	195	195	195	230	230	325

Specifications (Subject to Change without Notice) (approximate)

Capacity in Metric Tonnes	0.5	1.0	2.0	3.0	5.0	7.5	10.0
Number of Fall of Load Chain	1	1	2	2	2	3	3
Lift achieved by pulling 30 Mts. Hand Chain in Millimeter	800	450	225	225	150	100	95
Effort at full laod in Kgs.	18	20	20	30	35	35	42
Weight at 3 Mtrs Lift in Kgs	18	22	31	36	48	80	95
Extra Wt in Kgs for every one meter for extra left	2.4	2.4	3.8	3.8	5.0	7.0	11.2

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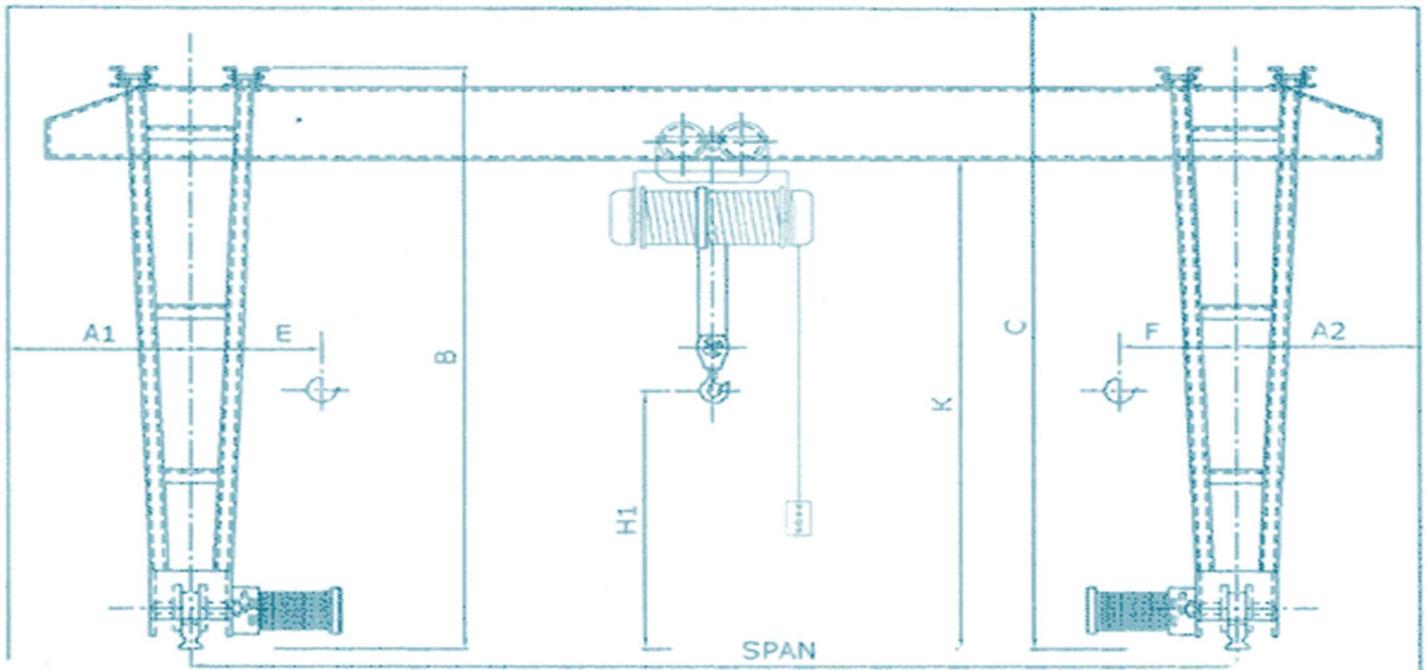


HERCULES MECHANICAL WORKS



ELEPHANT BRAND – GOLIATH CRANES

Goliath & Semi Goliath Cranes offered can be operated on floor level and find high suitability for securely carrying heavy loads. Finding use in host of applications including usage in construction sector, it is available with support of guide rollers and drive motors provided on upper end carriage. It is extensively used for carrying heavy loads in different industries apart from construction applications. We design and manufacture portal cranes, goliath cranes and gantry cranes as per our customer requirement for various industrial applications like shipping, construction, power, material handling, water gate handling, etc. Depending on the capacity & application, we design these cranes as single girder or double girder and also as per the requirements of our customers.



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HERCULES MECHANICAL WORKS



ELEPHANT BRAND – I – BEAM TROLLEYS

I- beam Trolley, manual trolley, push pull trolley, Lifting Trolley, Monorail trolley.

Beam Travelling Trolleys allow horizontal traverse of equipment along an "I" beam, most commonly used in combination with a Chain Hoist there are many different types of Beam Trolley with capacities from 250kg to 30,000kg to suit a huge variety of flange widths. The most universal design of beam trolley features two identical side plates that hold two wheels each that enable the traverse while being secured together on the beam by a threaded suspension point from which the hoist or equipment is suspended from in the middle. This can be pushed or pulled along the beam, other variations include geared and electric models which are ideal for heavier loads. We are leading manufacturer of geared trolley

Capacity in Kg.	500	1000	2000	3000	5000	7500	10000	15000	20000	
A	40	45	45	55	80	85	85	115	115	
B	40	45	50	80	105	120	120	165	165	
C	105	125	130	150	210	250	250	255	265	
D	Mini	75	75	100	100	125	125	125	180	180
	Maxi.	155	155	155	175	210	210	210	210	210
E	70	90	100	125	160	150	150	175	200	
F	Mini.	135	140	180	190	230	235	240	310	310
	Maxi.	215	220	235	265	320	320	325	340	340
G	100	102	102	102	102	100	100	100	100	
H	160	160	190	255	255	340	340	420	420	
J	80	90	180	130	170	200	200	237	265	
K	100	120	160	200	230	270	270	330	370	

SPECIFICATIONS

Hand Power at Full Load in Kg.	8	12	18	25	30	35	42	45	45
Approximate	15	20	PULL PUSH TYPE						
Net Weight at 3 Mtrs Lift	22	32	45	63	105	120	145	220	255

1. MOUNTING

- a) There should be a clearance of about 2 mm Between wheel flange & Beam flange on both sides.
- b) Guide Roller should be properly adjusted so that plain wheel flange should not mount the beam flange.

2. OPERATION:

Operator should stand in direction towards should trolley is to be moved whenever possible.

3. Above dimensions are subject to change without any prior information.



HERCULES MECHANICAL WORKS



ELEPHANT BRAND- JIB CRANES

ELEPHANT BRAND jib cranes assist the staff, multiplying human efforts and are an invaluable material handling solution for a standalone workstation or machine assembly area. They are effective for loading and unloading work pieces or machine tools or trucks upto 2000kg. Dedicated jib cranes for a single workstation or group of workstations allow efficient material handling by reducing waiting time for an overhead crane.

Column mounted jib cranes are necessary when no other appropriate support near a workstation is available. Wall mounted jib cranes are ideal solutions for workstations located near walls or vertical structures.

ELEPHANT BRAND designs and manufactures jib cranes to suit specific requirements, handling loads up to 6.3t, precisely and effortlessly. Standard electric wire rope hoists or chain hoists do the lifting and moving duty on these jib cranes.

Jib Cranes are built to consistently high specification confirming as per IS-807 and IS-3177. JIB cranes are versatile, efficient and cost effective solutions for moving materials within an individual workstation, for transferring materials from work area to work area or for serving as auxiliary lifting devices under overhead cranes. Available with 180 degree and 360 degree swiveling boom.