

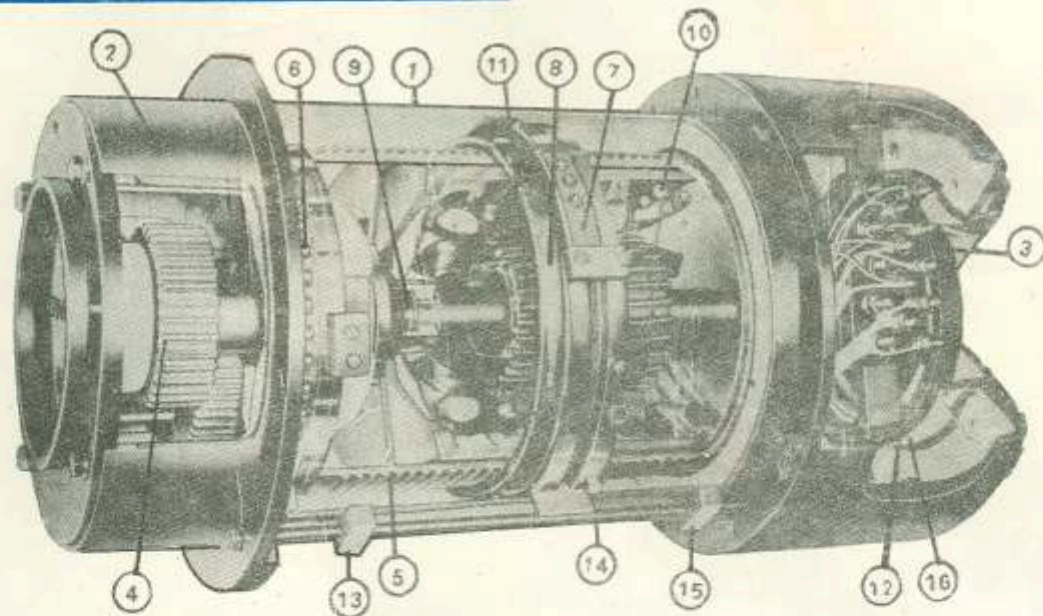
# HOIST-O-HIND

**ELECTRIC HOISTS**

- ELECTRIC HOISTS
- ELECTRIC OVERHEAD CRANES
- CANTILEVER JIB CRANES
- GOLIATH CRANES
- ELECTRIC WINCHES
- CONICAL ROTOR SQUIRREL CAGE INDUCTION MOTORS WITH INTEGRAL BRAKE



## SALIENT FEATURES OF HOST-O-HIND ELECTRIC HOISTS



**MAIN HOUSING :** All hoist parts are enclosed in the main housing (1) 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.

**ROPE DRUM :** The rope drum (5) is rolled welded and precision machined. This rope drum is supported on large diameter roller bearings (6) on both ends and the drive is through internal gears. The ample drum diameter ensures the best possible working condition for the wire rope.

**GEAR BOX :** The gear box (2) is made out of high grade cast iron. The precision spur gears (4) 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 supplied if specifically asked for).

**MOTOR :** The motor (10) is three phase squirrel cage, conical rotor type working on 440 volts, 50 c/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% ED.

**BRAKE :** The axial movement of the rotor is one of the characteristics of the conical rotor type of motor. This characteristic is taken advantage of in the actuation of the brake. When the motor is started the rotor (11) 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 (9) presses the brake disc (12) against 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 < Quicbrake > system and can be done without removing any part. The brake disc and brake end cover (3) are both made of high grade cast iron and the brake lining is of 'Ferodo' type.

**ROPE GUIDE :** The rope guide (7) is made of a special G.I. Cating base alloy. The rope tightener (8) is built-in in the rope guide itself. This rope guide moves on the drum like a nut and prevents the rope from overriding and loosening.

**LIMIT SWITCHES :** Every hoist is provided with built-in limit switches (16) to control the top and bottom positions of the hook. Tappets (13 & 15) can be adjusted on limit switch rod (14) 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 station. Supply to the pendant push button is of 110 volts as per IS specification.

**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.)

**MICROSPEED :** All hoists can be fitted with a micro speed attachment which reduces the hoisting speed to 1/10th of the main hoisting speed. The micro speed attachment works independent of the load and main hoist. There is a separate control for the micro speed. This arrangement is invaluable in the handling of bulky, heavy and delicate loads.

**TESTING :** Every hoist unit is tested at 125% of the rated load capacity on single fall of rope. Even the components pass through rigorous inspection tests before the hoist is approved for despatch.

Load Kg.	Ht. of lift App. Mtrs	Hoisting speed mtrs / minutes	Motor BHP (app)	Model-Hoist	Wire Rope Dia (mm)	No. of falls of rope	Head room (mm)
250	11.0	11.0	1	HOH-11	6	1	750
	20.0	11	1	HOH-21	6	1	750
500	5.5	5.5	1	HOH-12	6	2	800
	5.5	5.5	1	HOH-12 SH	6	2	400
	10.0	5.5	1	HOH-22	6	2	800
	10.0	5.5	1	HOH-22 SH	6	2	400
	15.0	20.0	3	HOH-21-41	8	1	750
	24.0	20.0	3	HOH-21-51	8	1	750
750	3.66	3.67	1	HOH-13	6	3	900
	7.0	3.67	1	HOH-23	6	3	900
1000	2.75	2.75	1	HOH-14	6	4	850
	2.75	2.75	1	HOH-14SH	6	4	400
	5.0	2.75	1	HOH-24	6	4	850
	5.0	2.75	1	HOH-24 SH	6	4	400
	7.5	10.0	3	HOH-21-42	8	2	800
	7.5	10.0	3	21-42 SH	8	2	400
	12.0	10.0	3	21-52	8	2	800
	12.0	10.0	3	21-52 SH	8	2	400
	16.0	10.0	3	21-82 (8)	8	2	800
	16.0	10.0	3	21-82 SH(8)	8	2	400
1500	5.0	6.67	3	21-43	8	3	920
	8.0	6.67	3	21-53	8	3	920
	20.0	14.0	6.5	23-11	13	1	850
	31.0	14.0	6.5	23-21	13	1	850
2000	3.75	5.0	3	21-44	8	4	900
	3.75	5.0	3	21-44 SH	8	4	400
	6.0	5.0	3	21-54	8	4	900
	6.0	5.0	3	21-54 SH	8	4	400
2500	26.5	10.0	8	25-11	16	1	1250
	43.0	10.0	8	25-21	16	1	1250
	73.0	20.0	15	28-11	16	1	1250
3000	10.0	7.0	6.5	23-12	13	2	1050
	10.0	7.0	6.5	23-12 SH	13	2	600



	15.5	7.0	6.5	23-22	13	2	1050
	15.5	7.0	6.5	23-22 SH	13	2	600
	2.5	2.5	3	21-64(10)	10	4	900
	2.5	2.5	3	21-64 SH(10)	10	4	400
	3.0	2.5	3	21-64(9)	9	4	900
	3.0	2.5	3	21-64 SH(9)	9	4	400
	4.5	2.5	3	21-74(10)	10	4	900
	4.5	2.5	3	21-74 SH(10)	10	4	400
	5.0	2.5	3	21-74(9)	9	4	900
	5.0	2.5	3	21-74 SH(9)	9	4	400
	7.0	2.5	3	21-94(10)	10	4	900
	7.0	2.5	3	21-94 SH(10)	10	4	400
5000	6.67	4.67	6.5	23-13 SH	13	3	1450
	10.3	4.67	6.5	23-23 SH	13	3	1450
	13.25	5.0	8	25-12	16	2	1450
	13.25	5.0	8	25-12 SH	16	2	750
	21.50	5.0	8	25-22	16	2	1500
	21.50	5.0	8	25-22 SH	16	2	750
	36.5	10.0	15	28-12	16	2	1500
	36.5	10.0	15	28-12 SH	16	2	750
	8.0	5.0	6.5	23-32	16	2	1050
	8.0	5.0	6.5	23-32 SH	16	2	650
	17	5.0	6.5	23-62	16	2	1050
	17	5.0	6.5	23-62 SH	16	2	650
6000	5.0	3.5	6.5	23-14 SH	13	4	650
	7.75	3.5	6.5	23-24 SH	13	4	650
	11	3.5	6.5	23-54 SH	13	4	650
7500	8.8	3.34	8	25-13 SH	16	3	1800
	14.25	3.34	8	25-23 SH	16	3	1800
	24.25	6.67	15	28-13 SH	16	3	1800
10000	6.6	2.5	8	25-14 SH	16	4	700
	10.75	2.5	8	25-24 SH	16	4	700
	18.25	5	15	28-14 SH	16	4	700
	3.5	2.5	8	23-34 SH	16	4	650
	6.2	2.5	8	23-44 SH	16	4	650

	8.6	2.5	8	23-64 SH	16	4	650
12500	5.3	2.0	8	25-15	16	5	2100
	8.6	2.0	8	25-25	16	5	2100
	14.6	4.0	15	28-15	16	5	2100
15000	4.4	1.67	8	25-16	16	6	2500
	7.17	1.67	8	25-26	16	6	2500
	12.17	3.3	15	28-16	16	6	2500
20000	5.37	1.25	8	25-28	16	8	2800
	9.12	2.5	15	28-28	16	8	2800
25000	4.3	1.0	8	25-2(10)	16	10	
	7.3	2.0	15	28-1(10)	16	10	
30000	3.6	0.84	8	25-2(12)	16	12	
	6.1	1.7	15	28-1(12)	16	12	

## FIXED MOUNTED HOIST

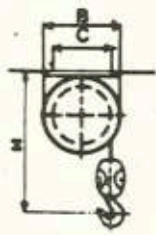


Fig. I

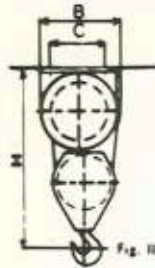


Fig. II

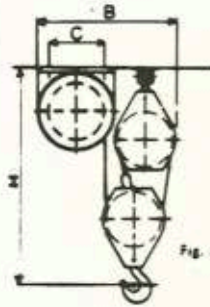
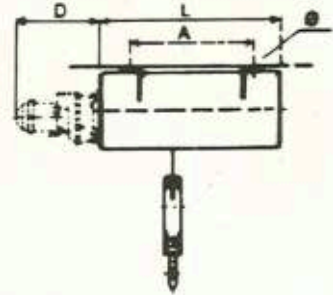
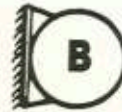
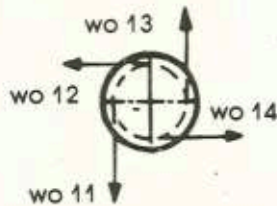


Fig. III



Wire Outlet

Mounting Position



All wire outlets and mounting positions can be combined.

These are available in all types of mountings. e.g. floor mounted, ceiling mounted, wall mounted etc.

They are used for loading and unloading transportation vehicles, through floor hatches or outside the wall, and for serving production machinery.

When ordering, please state in what position the hoist is to be mounted and wire outlet (WO) required.

## HOIST WITH TROLLEY

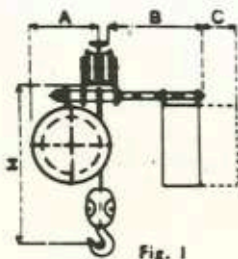


Fig. I

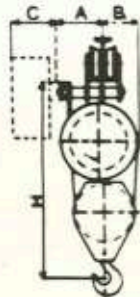


Fig. II

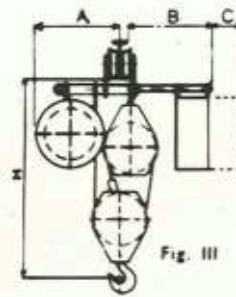


Fig. III

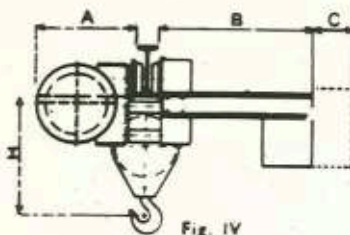
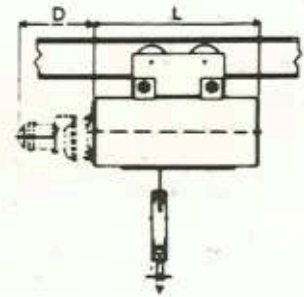
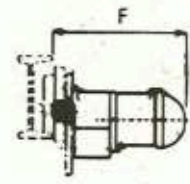
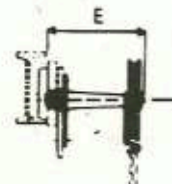
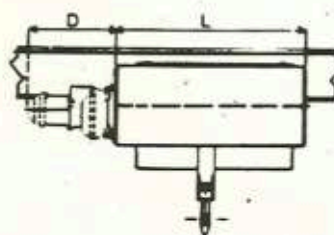


Fig. IV



Hoists can be equipped with trolley for horizontal travelling. The trolley is fabricated from components bolted and welded together and carried by travelling wheels supported on ball bearings.

Smaller loads can be moved with a push type trolley whilst the hand chain or motor driven should be used for heavier loads.

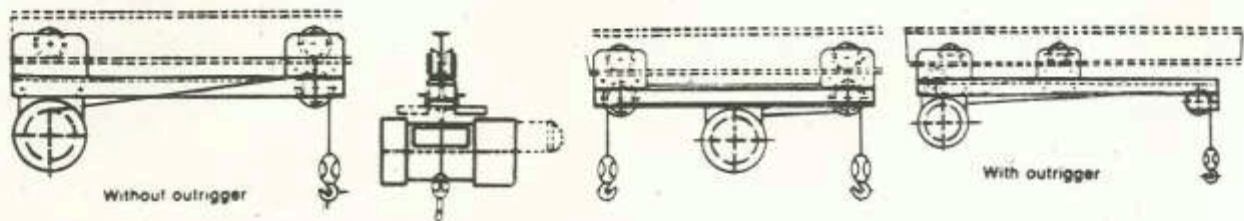
The motor driven trolley would be the best solution if the hoist unit is required to move loads rapidly. The drive motor is of squirrel cage type with built-in brake. The motor drives one or more of the trolley wheel's gear rim.

Wherever there are limitations to the available head room (dimension H), short head room trolley can be supplied (refer figure IV above)

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## EXTENDED TROLLEY

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These are particularly required when the load is bulky or for handling material from furnaces/chemical baths.

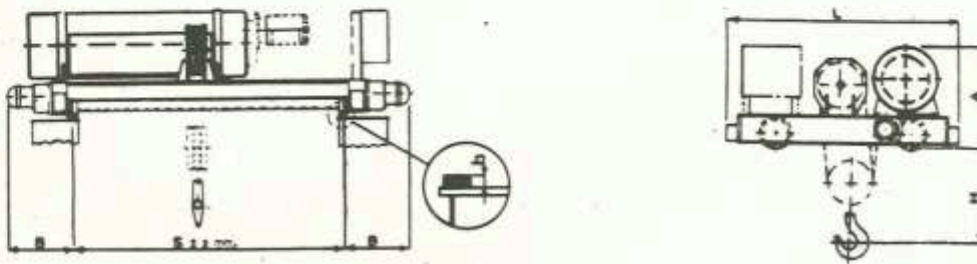
This trolley can also be provided with two hooks to deal with loads like paper rolls, logs etc.

When the loads go beyond the overhead track, an outrigger type of extended trolley is indispensable. These are used for loading on and unloading from ships in stream. Driver's cabins can also be built with the trolley.

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## CRAB

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Crabs can be supplied as standard units or can be custom made. They offer maximum advantage when working in open. These crabs can have single or twin hoist units as required. The driving arrangement can either be with hand-gear or motor driven type. Micro speed arrangement in hoisting can be provided if required.

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## TWIN HOISTS ON MONORAIL TROLLEY

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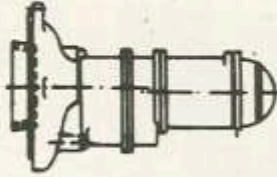


For exceptionally high heights of lifts this arrangement is very useful. It also offers the option of two hoisting speeds. The maximum height of lift 73m for a load of 5 tonnes, for HOH 28 type twin hoists.

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## MICRO SPEED ATTACHMENT

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This attachment when fitted to the hoist can provide 1/10th of the hoisting speed of main hoist independent of the load. A separate push button interlocked with the main hoist push button controls the attachment. Thus either of the two can be operated at a time.

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## HOIST ON FLEXIBLE TROLLEY

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Where the trolley has to negotiate a curved track, or the material movement is from one bay to another, this type of arrangement fulfils the requirement. The minimum radius of curvature the flexible trolley can negotiate is 1.5 metres.

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## HOIST-O-HIND

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HOIST-O-HIND Hoists are available in a wide range of lifting capacities, varying from 0.25 tonne to 20 Tonnes.

These hoists are available in a wide range of lifting capacities varying from 0.25 TONNE to 30 TONNES. They conform to class II duty as laid down in IS 3938-1967. Hoists conforming to class III and class IV duty as per IS 3938-1967 can also be supplied. Special Highlights of our Hoists are :

- Special Quicbrake adjusting system takes only a few minutes to adjust, thus reducing down time.
- Trolley is so designed, that it is adaptable to wide variations in I-beam sizes.
- Built-in safety limit switches control top and bottom positions of the hook.
- Hoist motors are designed for class 'F' Insulation which is superior to class 'A' 'E' or 'B' types of Insulations.

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## HOIST-O-HIND PRODUCTS

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- ELECTRIC OVERHEAD CRANES
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- GOLIATH CRANES
- ELECTRIC WINCHES
- CONICAL ROTOR SQUIRREL CAGE INDUCTION MOTORS WITH INTEGRAL BRAKE



## HOIST-O-HIND

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