



## Electric Wire Rope Hoist

Engineering the future. Uplifting tomorrow.

## MELTECH ELECTRIC WIREROPE HOIST

Meltech Electric Wire Rope Hoist are designed and manufactured as per IS: 3938 open winch type design in modular construction which is suitable for rugged duty applications & easy for servicing & maintenance.

### MOTORS :

Crane Duty, squirrel cage, high torque, motors are with foot/ flange mounting. Insulation is Class B/F. The motors are of reputed make in IEC frame size conforming to IS:325 for frequent Start / Stop application.

### BRAKES :

Hoist motors are fitted with Fail safe Robust DCEM Disc brake. Option for Electro Hydraulic Thrustor Brakes or DCEM Shoe brake are also available.

### GEAR BOX :

Machine cut helical/spur gears made from alloy steel suitably heat treated & rotating over anti-friction bearing are housed in totally fabricated gear box casing with oil lubrication.

### ROPE DRUM :

M. S. Fabricated & stress relieved or Seamless pipe machined to single layer Double grooves (LH/RH) to ensure straight lifting of hook at all height.

### WIRE ROPE :

Fibre or Steel core type, 6x36 construction, 1960 N/mm<sup>2</sup> breaking strength having factor of safety more than 6 as per IS:2260.

### HOOK :

Straight Shank 'C' Hook with safety Latch as per IS: 3815/15560.

### TROLLEY :

All trolleys are adaptable to large range of flanges of rolled beams or fabricated beams or box sections. Flexible trolley suitable for curved path can also be supplied.

### CONTROL PANEL :

Panels are of 2mm sheet steel housing, dust/ vermin proof, painted in Siemens grey in 7 tank process equipped with panel exhaust fans and louvers fitted with air filters. Control voltage can be 110V, 48V or 24V depending upon the customer requirement. Option for VVVF drive / Dual speed motor for micro speed is also available.

### PUSH BUTTON STATION :

Pendant Stations for Hoist application includes control circuits in both single or double row version. Push Buttons are of double insulated ABS with enclosures of IP65 IEC and lacerable engraved push button with single/ double step with mechanical interlock. Option for Radio Remote Operation is also available.

### TESTING :

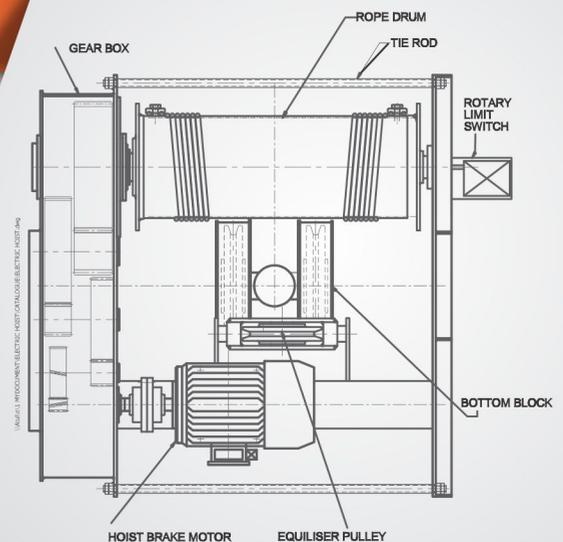
All hoists are tested for full load and 25% over load as per IS:3938-1983 at our works prior to dispatch. Trial run of all motions taken before dispatch. Load test & Warranty Certificates are provided along with the supply. Test certificates for Motors, Brakes, Wire rope, Hook etc also will be provided.

### OPTIONAL FEATURES : SMART CONTROL PANEL

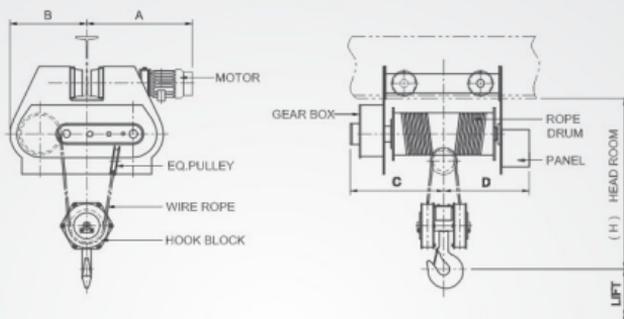
- Overload shut down and Alarm.
- Fault diagnosis system.
- Operation / duty cycle measurement.
- Gravity Limit switch
- Micro speed arrangement thru VVVF Drive for precision loading.
- Current measurement and load indication.
- Pre-set inching operation.
- Auto preventive Maintenance alert.

## SPECIAL FEATURES

- Double grooved rope drum (RH/LH) for straight lifting of load at all heights.
- Separate sub assembly such as gear box, motor rope drum facilitates ease in maintenance.
- Foot Mounted motor in IEC Frame size.
- Rope Guide not required.
- Totally Enclosed oil lubricated Gear boxes for Hoist.



## MODULAR ELECTRIC HOIST



DESCRIPTION	UNITS	1 Ton			2 Ton			3 Ton			5 Ton			8 Ton			10 Ton			15 Ton		
<b>WEIGHT</b>	KG.	515	525	540	525	535	550	540	570	605	880	910	945	1065	1100	1140	1350	1435	1530	1450	1535	1630
<b>LIFT</b>	MTRS.	6	9	12	6	9	12	6	9	12	6	9	12	6	9	12	6	9	12	6	9	12
<b>A</b>	MM.	660			660			660			660			700			700			800		
<b>B</b>	MM.	415			415			435			615			615			630			700		
<b>C</b>	MM.	490	565	640	490	565	640	540	630	735	660	730	835	685	765	855	980	1200	1415	1200	1350	1450
<b>D</b>	MM.	610	685	760	610	685	760	645	735	840	665	735	840	680	760	850	925	1140	1360	1150	1300	1400
<b>HEADROOM</b>	MM.	900			1000			1100			1200			1300			1400			1500		
<b>ROPE SIZE</b>	MM.	8			8			10			12			14			12			14		
<b>FALLS</b>	TYPE	4 / 2			4 / 2			4 / 2			4 / 2			4 / 2			8 / 2			8 / 2		
<b>HOIST SPEED</b>	M./ MIN.	4.0	6.0		4.0	6.0		4.0	6.0		4.0	6.0		3.0	6.0		3.0	6.0		3.0	6.0	
<b>HOIST MOTOR</b>	KW.	1.5	2.2		2.2	3.7		3.7	5.5		5.5	7.5		5.5	11.0		7.5	13.0		11.0	15.0	
<b>CT SPEED</b>	M./ MIN.	15.0			15.0			15.0			15.0			15.0			15.0			15.0		
<b>CT MOTOR</b>	KW.	0.37			0.55			0.55			0.55			0.75			0.75			1.0		

\* Above specifications are for Class II duty electric hoist as per IS 3938.

\* Exact specifications to suit customers requirements can be provided.

\* Due to continuous design improvements, dimensions are subjected to change without notice.

\* Dimension "A" is for minimum flange width of 140mm.



## OTHER MELTECH PRODUCTS

- EOT CRANES
- SINGLE GIRDER CRANES
- GRABBING CRANES
- JIB CRANES
- GANTRY CRANES
- TRANSFER CARS
- ROTATING TROLLEY CRANES
- GRAB BUCKET

### QUALITY ASSURANCE :

Meltech's stringent Quality Assurance Plan does not leave anything unchecked from raw material to finished product. ISO 9001-2008 contributes meticulous planning & documentation facilitates smooth execution of any project.

### TIMELY AFTER SALES & SERVICE

Detailed Instruction Manuals are provided with the necessary information of correct operation of the hoist, and necessary preventive maintenance & trouble shooting chart. Components and Spare Parts made available in short period to reduce the down time of the equipment.

### WARRANTY

18 months from date of supply or 12 months from date of commissioning which ever is earlier.

**MORE THAN 30 YEARS EXPERIENCE IN MATERIAL HANDLING**

### MELTECH CRANES :

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Email: meltech@vsnl.net, meltechcrane@gmail.com | Web: www.meltechcrane.com

### Works:

(Unit I) F-24, MIDC, Anand Nagar, Addl. Ambernath - 421 506 | Tel.: 0251-2620734 Telefax: 0251-2620410

(Unit II) F-24/1, MIDC, Anand Nagar, Addl. Ambernath - 421 506

### Regional Sales & Service Centers:

Kolkata, Jamshedpur, Bhuvaneshwar, Chennai & Cochin

