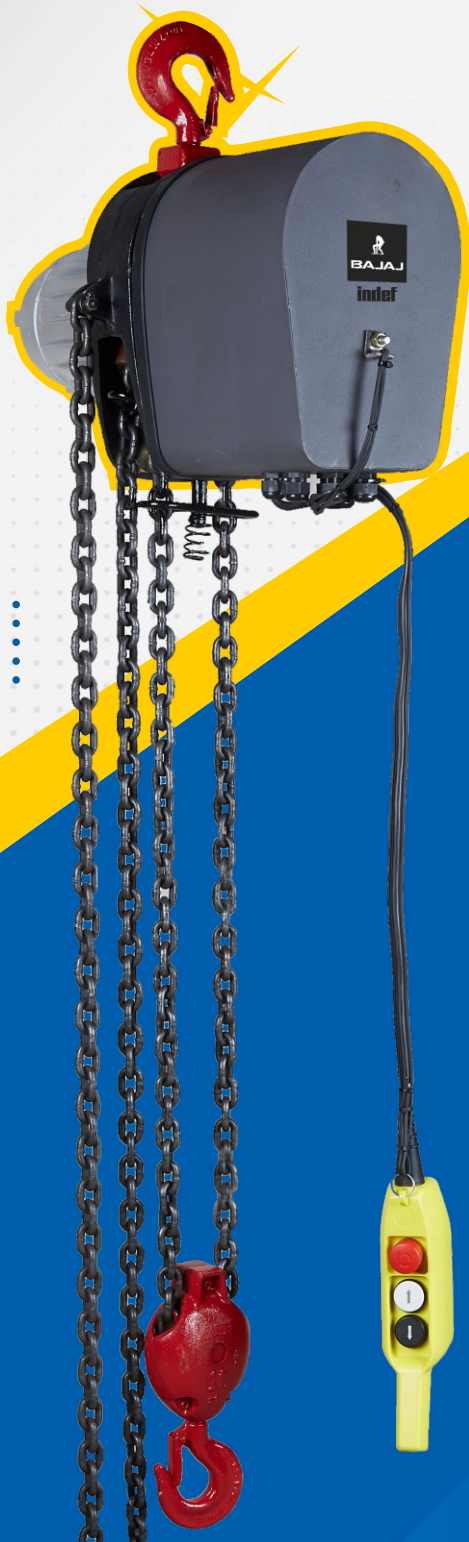


OPERATING & MAINTENANCE INSTRUCTION MANUAL WITH SPARE PART LIST

(Guarantee Will be Void if not used as Instructed in this Manual)



EH-II (BABY)

MEDIUM DUTY

Capacity - 1t to 2t

ELECTRIC CHAIN HOIST

INDEX

1.	Important Information and Warning	4
2.	Commissioning Check List	10
3.	Erection & Commissioning	11
4.	Safe Operating Procedure	14
5.	Assembly & List of Spare parts	15
7.	Wiring Diagrams & List of Electrical Spares	21

Important Information and Warnings

Terms and Summary

This manual provides important information for personnel involved with the installation, operation and maintenance of this product. Although you may be familiar with this or similar equipment, it is strongly recommended that you read this manual before installing, operating or maintaining the product.

Danger, Warning, Caution and Notice - Throughout this manual there are steps and procedures that can present hazardous situations. The following signal words are used to identify the degree or level of hazard seriousness.

DANGER :- Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury, and property damage

WARNING :- Warning indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury, and property damage.

CAUTION :- Caution indicates a potentially hazardous situation which, if not avoided, may result minor or moderate injury or property damage.

NOTICE :- Notice is used to notify people of installation, operation, or maintenance information which is important but not directly hazard-related.

CAUTION

These general instructions deal with the normal installation, operation, and maintenance situations encountered with the equipment described herein. The instructions should not be interpreted to anticipate every possible contingency or to anticipate the final system, crane, or configuration that uses this equipment. For systems using the equipment covered by this manual, the supplier and owner of the system are responsible for the system's compliance with all applicable industry standards, and with all applicable federal, state and local regulations/codes.

This manual includes instructions and parts information for a variety of trolley and hoist types. Therefore, all instructions and parts information may not apply to any one type or size of specific trolley or hoist. Disregard those portions of the instructions that do not apply.

Record your hoist and trolley's Product Code and Serial Number on the front cover of this manual for identification and future reference to avoid referring to the wrong manual for information or instructions on installation, operation, inspection, maintenance, or parts

Use only Indef authorized replacement parts in the service and maintenance of this trolley.

CAUTION

Equipment described herein is not designed for and **MUST NOT** be used for lifting, supporting, or transporting people, or for lifting or supporting loads over people.

Equipment described herein should not be used in conjunction with other equipment unless necessary and/or required safety devices applicable to the system, crane, or application are installed by the system designer, system manufacturer, crane manufacturer, installer, or user.

Modifications to upgrade, rerate, or otherwise alter this equipment shall be authorized only by the original equipment manufacturer.

Failure to read and comply with any one of the limitations noted herein can result in serious bodily injury or death, and/or property damage.

The angle between rope and plane perpendicular to the axis of the drum shall not exceed 5° (As per IS 3938 6.1.1.2).

Hoists shall not be operated unless the hoist unit is centered over the load, except when authorized by a qualified person who has determined that the components of the hoist and its mounting will not be overstressed. Should it be necessary to pick a load that is not centered under the hoist unit, precautions should be taken to control the swing of the load when it is picked clear of its support.

DANGER

HAZARDOUS VOLTAGES ARE PRESENT IN THE CONTROL BOX, OTHER ELECTRICAL COMPONENTS, AND CONNECTIONS BETWEEN THESE COMPONENTS.

Before performing ANY mechanical or electrical maintenance on the equipment, de-energize (disconnect) the main switch supplying power to the equipment; and lock and tag the main switch in the de-energized position.

Only trained and competent personnel should inspect and repair this equipment.

**Information**

This symbol indicates tips and useful information.

Warning Tag and Labels

The warning tag illustrated below in Figure is supplied with each hoist and trolley shipped from the factory. If the tag is not attached to the pendant cord for your hoist/trolley, order a tag from your dealer and fix it. Read and obey all warnings attached to this Hoist/Trolley. Tag is not shown in actual size.

WARNING

IMPROPER use of powered Hoist could result in death
Or serious injury.

To avoid these hazards:

- ▶ ALWAYS read owner's manual and safety instructions.
- ▶ Do NOT lift more than rated load.
- ▶ Do NOT lift or transport loads over or near people.
- ▶ Do NOT use a hoist for lifting supporting or transporting people.
- ▶ Do NOT operate unless load is centered under hoist.
- ▶ Do NOT support a load on the tip of the hook
- ▶ Do NOT use a hoist if the hook latch is missing or broken.
- ▶ Do NOT remove or obscure the warning labels.
- ▶ Do NOT run the load chain or wire rope over a sharp edge.
- ▶ Do NOT use the load chain or wire rope as a sling.
- ▶ Do NOT operate beyond the travel limits of the hook or load block.
- ▶ Do NOT use a twisted, kinked, damaged, or stretched load chain or wire rope.
- ▶ Do NOT operate a wire rope hoist with a wire rope that is not properly seated in its groove.

CONDITIONS WHERE WARRANTY WILL BE VOID / NOT APPLICABLE

HHL does not provide reimbursement for maintenance and visit charges for items such as: brake adjustments, lubrication oil changes, or any other item or activity deemed solely by HHL to be maintenance related.

HHL will not be liable for damage or malfunction and consequently warranty resulting from:

- a. Lack of maintenance.
- b. Use of improper or insufficient lubricants
- c. Supply voltage high/low or insufficient.
- d. Environmental conditions (including but not limited to extreme temperatures, humidity and corrosive environments).
- e. Outdoor applications where HHL is not intimated and recommendations for protection from the elements are not followed.
- f. Misuse or abuse (including but not limited to overloading, shock loading, or side / angular lifting / pulling).
- g. Use of parts other than genuine HHL replacement parts.
- h. Improper repairs or maintenance.
- i. Modifications not approved by HHL.
- j. Improper handling of product after it leaves HHL factory.
- k. Fire, accidents, or acts of God or nature, including but not limited to floods, hurricanes and lightning.
- l. Any piece of equipment not supplied by Hercules Hoists Limited, is installed on products.
- m. Malfunction or damage caused by items added to Hercules Hoists Limited products, including but not limited to controls and control components.
- n. Relocation of hoist / equipment without proper installation and commissioning by HHL / ABP.
- o. Misalignment in existing / installed Crane rail and hoist monorail, improper existing power feed track.

Operational cause Note

Overhead crane & hoists are typically designed to lift objects vertically. The specific guide lines are mentioned in respective IS standard .

Sometimes, however, operators attempt to make a side pull or cross pull or use the hoist horizontally to lift an object that is not directly underneath it.

This can cause damage to hoist.

Probable failures/Risks:

- ▶ Side pulling can cause damage to various hoist parts – Load Chain Wheel, Chain Guide Roller, Chain Stripper, Hook and hook latch assembly, in electric Chain Hoists the load chain guide and chain stripper and in Wire Rope Hoists the rope drum, rope guide and the rope itself.
- ▶ Additionally, it may place the operator and personnel working near the crane at risk for injury.
- ▶ One of the main risks for an operator is load swing, which can damage the load or cause injury to the operator. In extreme cases, there might be a load drop.
- ▶ A rope that has been worn by side pulls may also snap and lead to a loss in control of the load.
- ▶ Cross pull or side pull may affect on monorail beam flanges, the beam web may deflect / distort, and beam flanges may wear causing uneven sides of beam.
- Preventing side pulls could lead to increases in both the safety and the lifetime of the components, customer should be educated at every interaction opportunity.
- The unfortunate prevalence of cross pulling-related accidents and maintenance needs repeated replacement of parts like chain guider roller, chain stripper, hook latch assembly, rope guide related parts i.e set of rope guide ring, spring and rope guide joining bracket.

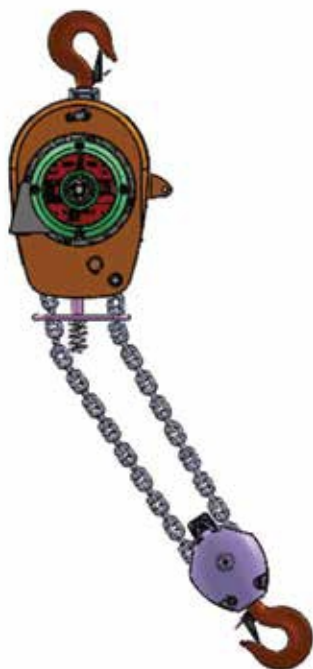
Operational Note:

- Please be aware that as a safety feature, this rope guide ring is designed to snap in the event of the wrong usage of the rope hoist. As per IS 3938-2005 the angular lifting / pulling of dead weight is not allowed in wire rope hoist. If any user puts the rope hoist to such an application, the rope guide ring will not allow to perform the lifting. The rope guide ring will break if the fleet angle is more than 5 Deg. including angle between point of lift and dead weight kept on floor.
- The specific instruction in Do's and Don'ts is given hoist operating and maintenance manual. Those guidelines are based on past experience and safety standards of operation.
- The hoist in tandem application cannot be used because the load lifting speed and effort are not balanced in manual hoisting operation. Most important is load required to be centered under hoist and load line of trolley centre and hook seating diameter centre should match. The hoists are designed for lifting load vertically. This phenomenon is applicable for all hoisting equipment's.

If hoist not used in proper way as mentioned above the warranty claims will not be accepted.
Indicative list of parts not covered under warranty.

Indicative list of parts not covered under warranty:

1	Hoist Motor Winding
2	Load Chain
3	Safety Latch assembly
4	Brake Disc – Hoist and Trolley
5	Brake Coil – Hoist and Trolley
6	Hoist and Cross Travel Limit Switch
7	Trolley Motor Winding
8	Pendent control
9	Relay and Fuse
10	Chain Guide
11	Chain Stripper
12	VFD / Inverter
13	Special Control Switch Gear
14	Control Transformer

This can cause damage to hoist

COMMISSIONING CHECK LIST (CEH)

1. I-Beam Flange width : Check actual width of beam, adjust washers to make equal running clearance on all trolley wheels.
2. Dimensional clearance : Ensure that enough clearance is available for hoist & trolley movement.
3. Power supply system : Ensure that 'T' section in case of trailing cable system or bus bar in case of Akapp system is parallel in both axis w.r.t. Beam in straight or curved path. Trolley pushers are designed correctly so that there is no pressure on trolley or current collector during travel.
4. Trolley Limit Switch (Optional) : Proper actuators are provided on beam for the stopping of CT.
5. Oil level & fasteners: Check levels are correct & all fasteners are correctly tightened.
6. Power supply Voltage : Check voltage in all 3 phases. R=Y=B= report under or over voltage.
7. Limit Switch : Check all limit switches like over hoisting, over lowering, right & left & emergency Check the direction of motions w.r.t. Pendant buttons change phase sequence if required. This is very important safety requirement.
8. Sufficiency of lift : Set the bottom Limit switch so that hook touches the floor & no further Loosening of chain takes place. Set the top limit switch so that safe headroom is maintained between hoist body and lower block.
9. Angular Loading : Check that equipment is not subjected to angular loading. Ensure that equipment is installed at proper place proper hook approaches are used to prevent this.
10. Overloading, Extra heavy duty : Observe there is no overloading and excessive use of hoist.
11. Counter weight assembly : Ensure that counter weights are correctly assembled for balancing of trolley bolts are properly locked & tightened.
12. Noise level : Observed that there is no abnormal noise in Hoist and travel motion.
13. Oiling : Apply oil to the chain for full length. Ensure free movement.
14. Name plate data: Note hoist, motor nos. & record them on Instruction manual for future use.
15. Instruction Manual: Read instruction manual of each product carefully & act accordingly.
16. Abnormal factors : Excessive dust, temp, humidity, chemical fumes, leakages etc. Report them.
17. Brake setting : Ensure that brake operation is not sluggish & load is not slipping. This is to certify that equipment is commissioned on and found satisfactory for use.

OPERATING & MAINTENANCE INSTRUCTION

COMMISSIONING & OPERATION

Connect mains incoming Supply (415V, 3 phase, 50 Hz), Press hoisting (T) push button, if load hook does not move in upward direction as per marking on push button, then switch off mains and interchange two phase of mains supply. An overload bimetallic relay is provided to protect hoist motor against overloads

LIMIT SWITCHES

Limit switches are provided for both hoisting and lowering. These trip the supply in events of accidental overhoisting or over-lowering. These are safety devices and hence it is not recommended to use the hoist always in its extreme positions.

CAUTION

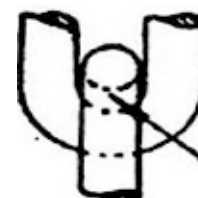
DO NOT MAKE ANY CHANGE IN CIRCUIT, ANY RECONNECTION MUST BE DONE AS PER THE CIRCUIT DIAGRAM ONLY

Electric hoists are designed for class II operation and the hoist motor is rated for 40% intermittent duty. This means In a 10 minute cycle the hoist should run for a total period of 4 minutes.

For Satisfactory and lasting service from hoist, customer is requested to follow the 40% duty and the preventive maintenance instructions as given below :

MAINTENANCE

- a) Load chain should be kept well lubricated at all times. Lubricate the chain with any medium viscosity oil on no load condition. Then run the hoist. (No load conditions again) for some time to ensure that oil has penetrated the link joints. (see sketch)
- b) Put few drops of oil regularly on all moving parts of limit switch to have them always efficient to keep away breakdowns
- c) we recommend NEBULA EP or equivalent grease for gears and Norva 275 or equivalent grease for bearings.



TESTING SERVICES

As per factory act, all lifting equipment have to be tested every six months and need to be certified "OPERATION WORTHY" by a competent person, This service is extended to all our customers at a nominal charge.

PROCEDURE FOR MOTOR ASSEMBLING

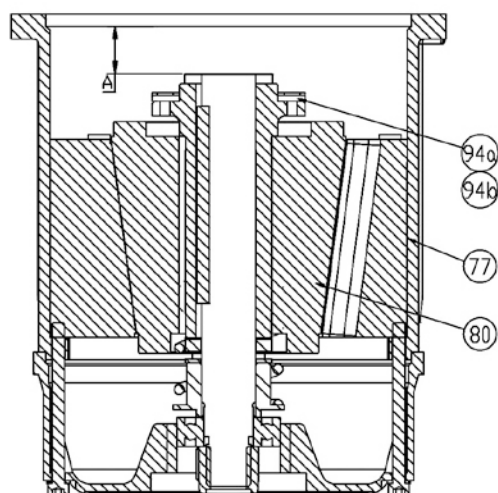
1. Clean the braking surface of chain guide (P No.4) and stator body free of accumulated dust.
2. Adjust the distance A (see sketch 2) to 37.0 +0.0 this can be done by 0.3 selecting correct No. of washers (P. N 94a and P. N. 94b)
3. Fix the brake drum (P. N. 94) along with washers (P. N. 94a, 94b) to Rotor P. N. 80. 1.5 mm thick washer (P. No. 94b) to be always provided below part nos. 98 & 97 as shown in sketch 3 to avoid Elongation of holes on brake drum.

4. See that the Rotor freely slides over the Motor shaft.
5. Adjust the washers P. N:83, 85 such that a distance B of about 1.5 mm. is achieved (see sketch 3)
6. Check the air gap between rotor and stator packet to be uniform to $0.2 + 0.05$ mm. keep the nyloc nut (P. N. 89) in fully tightened condition.
7. Adjustment by nyloc nut (P.N.89) If it is found that the hoist does not lift the load satisfactorily, then open the nut by $1/2$ to $3/4$ turn. You will find the hoist will start working all right.

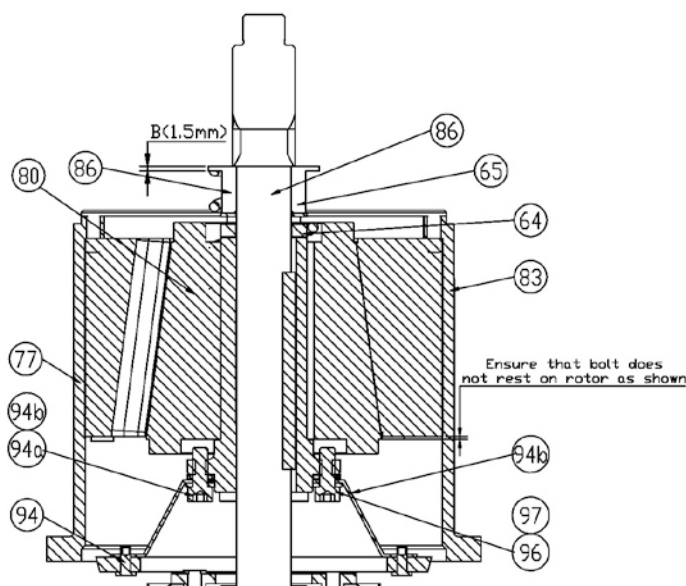
CAUTION

The adjustment by nut only has to be very carefully done, Further loosening of the nut will reduce the running gap between rotor and stator of motor to such an extent that rotor will start fouling the stator causing damage to motor ultimately.

- Spares: 1) Parts with 'mark are subject to high wear and tear and it is advised to keep them In stock
- 2) While ordering spares, please mention the hoist and motor numbers, date of supply, lilt and capacity of the unit.



SKETCH 2

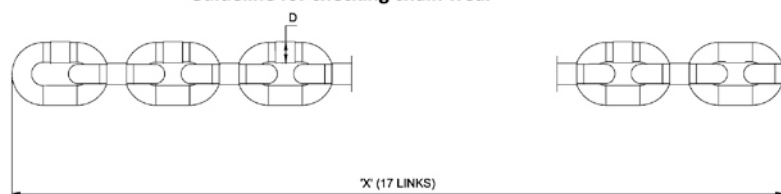


SKETCH 3

TROUBLE SHOOTING

TROUBLE	CAUSE	HOW TO SET RIGHT
Hoist does not raise or lower	1. No power to motor 2. Limit Switch open 3. Brake not releasing 4. Excessive Load	Check power line connections, 24V Auxiliary connections. Check Transformer. 1. Check Limit switch contact. 2. Check angular loading, load chain not sitting and running out of guide roller. 1. Check up the nylon nut. It should be loosened by j lo 1 Lori' from full tight position. 2. Open motor side and check if there is any foreign material or rust or moisture. Check proof of load
Hoist operates sluggishly	1. Low voltage or single phasing 2. Load does not move freely	1. Check wear and tear of chain as per guide lines mentioned below. 2. Check load chain wheel for wear.
Causes of Excessive Hoist/Load chain wear	1. Lack of lubrication 2. Excessive duty / load Excessive worn out chain	1. Lubricate chain with Harmony 53 or equivalent oil. 2. Check load & number of Start/ Stop per day.
Fast wear of Load chain Wheel.	1. Excessive worn out chain	Refer Guide line for chain.

Guideline for checking chain wear



- While measuring, there should not* any twist in chain & it should not be held loose.
- It should be measured within ± 1 mm accuracy & it should be measured at the interval of 2 meters.

Recommended maximum 'X' for 17 links in mm.

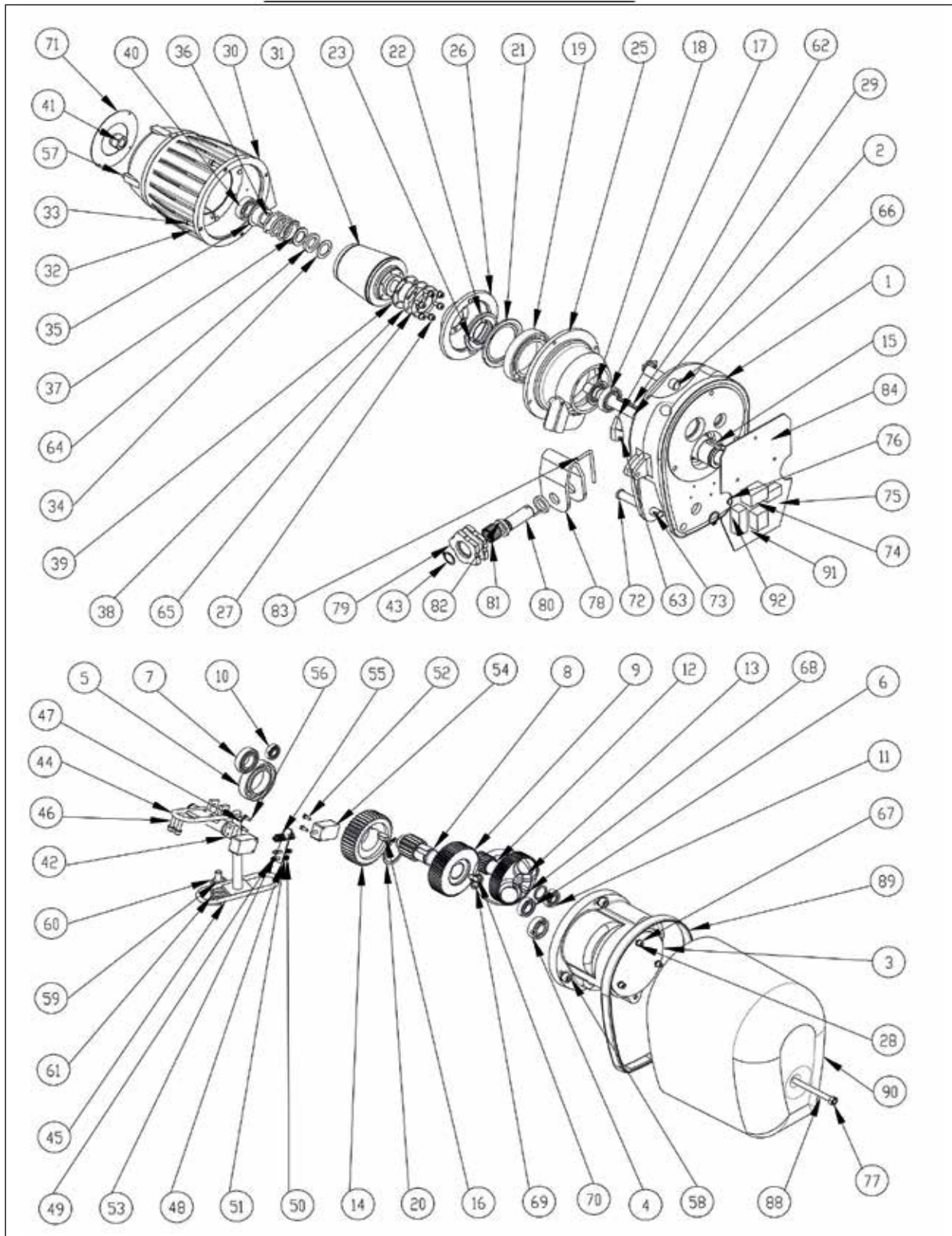
a) For 8 mm. load chain (D...11) 422 mm.

At any place if 'X' is more, it is NOT advisable to use it.

SAFE OPERATING PROCEDURES FOR OVERHEAD CRANES / HOISTS & SLINGS

DO Not	CAUTIONS	DO
- Lift more than rated capacity of Hoist. - Operate Hoist with twisted, kinked or damaged hoist-rope - Operate if rope is not seated in drum or sheave grooves. - Lift unless load slings are centered on hook. - Lift people or travel with people on load. - Make side pulls which misalign rope with hoist. - Operate unless all travel limit devices are functioning. - Lower below point where less than two full wraps of rope remain on hoist drum. - Use upper limit switch to stop hoist limit which is emergency stop only. - Leave operating position with suspended load on hook. - Permit load to contact obstacles. - Exceed recommended duty cycle. - Use Hoist Rope or chain as a sling or as an earthing for welding. - Divert his attention while operating. - Remove or obliterate warning label - Exceed fuse rating.	WHENEVER LEAVING OR PARKING ANY HOIST OR CRANE - Raise all hook to-but not through-limit switches. - Place all controls in off position - Place main power switch in off position. - Make visual check for any dangerous condition & report any defect immediately. - Report to supervisor when Hoist is not in operation. - Take up slacks, than start load slowly. - Keep chains free from twists, knots & knits. - Lift form Center of hooks. Avoid lifting form points. - Distribute load evenly on all legs. - Inspect chain regularly. Remember elongation of links is a sign of overloading. - A sharp edge can cut the lift of your sling. Use blocking padding or a corner saddle. - Remove knots large enough for the load. - Don't jerk loads- jerking may double the stress in your sling. Lift load gradually. 	- Test hoist & travel limit devices at a start of each shift. - Position the Hoist so that lifting appliance is directly over the load. - Take load gently & avoid shock loads. - Ensure the travel path is clear before traveling. - Sound warning single when approaching personnel. - Balancer the loading sling before lifting more than few inches. - Test hoist brakes whenever lifting load approaching rated load capacity. Lift load a few inches & test hoist brakes before making complete lift. - Make visual checks on equipment at reasonable intervals & report the defects immediately. - Use controller to "stop" hoist not limit switch. - Watch for proper rigging on load before lifting. - Know standard hand signals. - Check Lubricants. - Check for proper phasing. - Always anchor outdoor hoists when not attended. - Keep load block safely overhead when not in use.

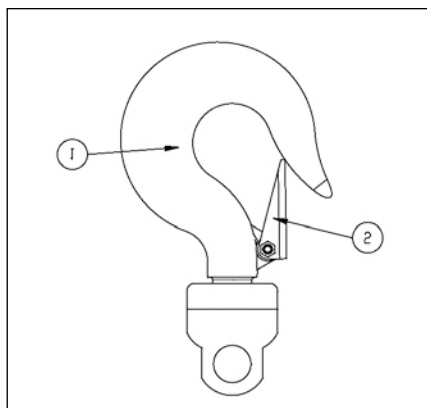
MAINS SPARE PART LIST – 1T - 2T



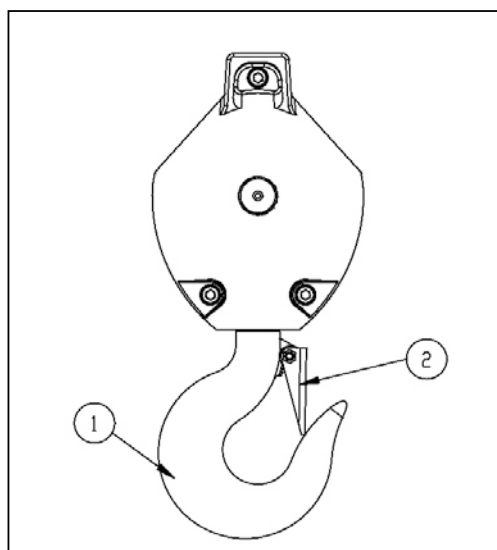
PART NO.	PART CODE 1T	PART CODE 2T	DESCRIPTION	QTY.
1	EACM013001B	EACM013001B	MAIN BODY	1
2	EACM813013B	EACM813013B	MAIN & MOTOR SHAFT	1
3	EACM023002B	EACM023002B	GEAR HOUSING COVER	1
4	BBR062030000	BBR062030000	BALL BEARING 6203	1
5	BBR06009Z000	BBR06009Z000	BALL BEARING 6009-Z	1
6	BBR060030000	BBR060030000	BALL BEARING 6003	1
7	BBR060050000	BBR060050000	BALL BEARING 6005	1
8	EACM812161C	EACM812161C	GEAR SHAFT	1
9	EACM812162C	EACM812162C	HELICAL GEAR	1
10	BBR060010000	BBR060010000	BALL BEARING 6001	1
11	BBR062010000	BBR062010000	BALL BEARING 6201	1
12	EACM812151C	EACM812151C	GEAR	1
13	EACM812152C	EACM812152C	GEAR WHEEL	1
14	EACM813014B	EACM813014B	SPUR GEAR WHEEL	1
15	EACM823003B	EACM823003B	LOAD CHAIN WHEEL	1
16	KB1000800220	AAAM813076B	KEY - BER 10*8*22	1
17	BBR06005ZZ00	AAAM823071B	BALL BEARING 6005-ZZ	1
18	EACM113051A	EACM113051A	BALL BEARING COVER RING	1
19	BBR060130000	BBR060130000	BALL BEARING 6013	1
20	EXCRA0440000	EXCRA0440000	EXTERNAL CIRCLIP A 44	1
21	EACM113050A	EACM113050A	BALL BEARING COVER RING	1
22	EACM833017A	EACM833017A	SPACER RING	1
23	ASFM05016000	ASFM05016000	ALLEN SCREW (SHCS) M 5*16	4
24	FLSPWB050000	FLSPWB050000	FLAT SPRING WASHER B-5	8
25	EACM013004B	EACM013004B	CHAIN GUIDE	1
26	EACR133950B	EACR133950B	BRAKE DRUM COMPLETE	1
27	ASFM06016000	ASFM06016000	ALLEN SCREW (SHCS) M6*16	6
28	FLSPWB060000	FLSPWB060000	FLAT SPRING WASHER B6	9
29	KB0500500800	KB0500500800	KEY -BER (A5*5*80)	1
30	0722001B	0722001B	STATOR	1
31	EACR133800B	EACR133800B	ROTOR WITH HUB	1

PART NO.	PART CODE 1T	PART CODE 2T	DESCRIPTION	QTY.
32	ASHM06030000	ASHM06030000	ALLEN SCREW M6*30	4
33	THSPWA064000	THSPWA064000	TOOTH SPRING WASHER A6.4	4
34	EACR113083A	EACR113083A	WASHER 22.5*35*0.5	1
35	EACR833086A	EACR833086A	BUSH FOR SPRING	1
36	EACR243087A	EACR243087A	PRESSURE SPRING	1
37	EACR113085A	EACR113085A	WASHER 22.5*35*1.5	1
38	EACR113940A	EACR113940A	BRAKE DRUM PACKING RING	1
39	EACR113941A	EACR113941A	BRAKE DRUM PACKING RING	1
40	BBR06004ZZ00	BBR06004ZZ00	BALL BEARING 6004-ZZ/2RS	1
41	NNMM16002000	NNMM16002000	NYLOC NUT M16*2 J.N.	
			MARSHAL MAKE	1
42	EACM833307A	EACM833307A	SWITCH AXLE	1
43	EXCRA0220000	EXCRA0220000	EXTERNAL CIRCLIP A 22	1
44	EACM133301A	EACM133301A	LIMIT SWITCH LEVER	1
45	EAAM123300A	AAAM813153B	LIMIT SWITCH PUSHER	1
46	ASFM06025000	AAAM813154B	ALLEN SCREW (SHCS) M6*25	2
47	DSP060040000	DSP060040000	DOWEL SPRING PIN 6*40	1
48	EACM112309A	EACM112309A	SPRING PLATE	1
49	ASHM04040000	ASHM04040000	ALLEN SCREW M4*40	2
50	PLW040090008	PLW040090008	PLAIN WASHER 4.3 * 9 * 0.8	2
51	EACM243315A	EACM243315A	SPIRING ON SWITCH AXLE	2
52	FLSPWB040000	FLSPWB040000	FLAT SPRING WASHER B4	6
53	HNMM004000YZ	HNMM004000YZ	HEX NUT M4 (YELLOW ZINC PLATED)	2
54	XLSE0010SLZ	XLSE0010SLZ	LIMIT SWITCH	2
55	EACM243314A	EACM243314A	PLUNGER SPRING	2
56	MSFM04012000	MSFM04012000	CHEESE HEAD MACHINE SCREW M4*12	4
57	ASHM05065000	ASHM05065000	ALLEN SCREW (SHCS) M5*65	4
58	ASFM10025000	ASFM10025000	ALLEN SCREW M10*25	3
59	FLSPWB100000	FLSPWB100000	FLAT SPRING WASHER B10	4
60	ASFM10020000	ASFM10020000	ALLEN SCREW M10*20	1
61	EACR243111A	EACR243111A	DAMPER SPRING	1

PART NO.	PART CODE 1T	PART CODE 2T	DESCRIPTION	QTY.
62	EACM073011A	EACM073011A	CHAIN STRIPPING FORK	1
63	DSP060020000	DSP060020000	DOWEL SPRING PIN 6*20	1
64	EACR833084A	EACR833084A	ADJUSTMENT SPACER	1
65	EFCM113053A	EFCM113053A	BRAKE DRUM PACKING RING.	1
66	EACM123005B	EACM123005B	LOAD PIN AND LOCKING PLATE	1
67	ASFM06010000	ASFM06010000	ALLEN SCREW (SHCS) M6*10	4
68	KB0800700200	KB0800700200	KEY-BER (A8*7*20)	1
69	EXCRA0250000	EXCRA0250000	EXTERNAL CIRCLIP A 25	2
70	KO0800700210	KO0800700210	KEY OER 8*7*21	1
71	EACR173099A	EACR173099A	NAME PLATE	1
72	--	EABU823168B	PIN FOR BRAKET	1
73	--	DSP040025000	DOWEL SPRING PIN 4*25	1
74	--	EABU013157A	SUSPENSION ARM	
			FOR LOAD CHAIN WHEEL	1
75	--	ASFM08030000	ALLEN SCREW M 8*30	2
76	--	FLSPWB080000	FLAT SPRING WASHER B-8	3
77	HNMM008000YZ	HNMM008000YZ	HEX NUT M8	5
78	--	EABU123163A	BRACKET FOR IDLER WHEEL	1
79	--	EACL813191B	LOAD CHAIN WHEEL	1
80	--	EABU813166B	PIN FOR CHAIN WHEEL	1
81	--	ND0301980000	NEEDLE 3 DAI. *19.8 LG	26
82	--	EACL813205B	SPACER	2
83	--	EABU113167A	LOCKING PIN	1
84	0722101B	0722101B	CONTROL PANEL	1
88	EACM833052A	EACM833052A	STUD M8*170*EHII-52S	1
89	EACM183007A	EACM183007A	GASKET*EHII-7/9016	1
90	EACM113007A	EACM113007A	OUTER PROTECTING COVER	1
91	CHAL08023800	CHAL08023800	LOAD CHAIN	1
92	--	HBHM08035088	HT HEX BOLT 8*35	1
93	EACM203319A	--	SUSPENSION PIN	1
94	EACM833320A	--	GUIDE ROLLER	1
95	DSP040020000	--	DOWEL SPRING PIN 4*20	1

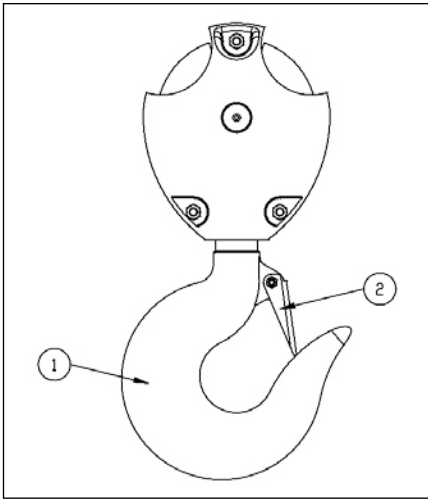
UPPER BLOCK – 1T/2T

PART NO	PART CODE (1T)	PART CODE (2T)	DESCRIPTION	QTY
	0720401P	0720402P	UPPER BLOCK ASSLY	
1	CAAU003130A	CBAU003307A	HOOK WITH SAFETY LATCH ASSLY	1
2	CAAS003140A	CABS003210B	HOOK LATCH ASSLY	1

LOWER BLOCK – 1T

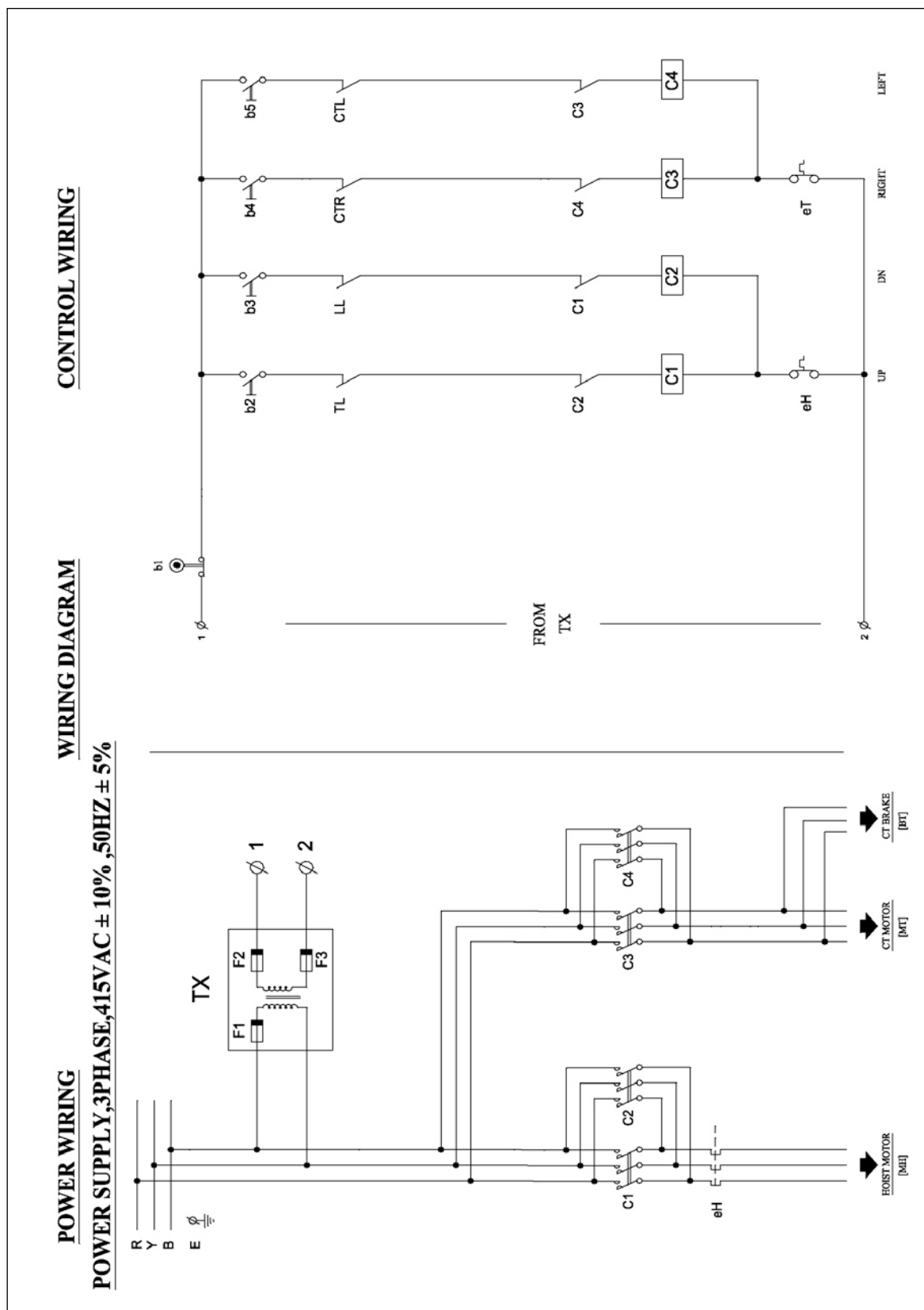
PART NO.	PART CODE	DESCRIPTION	QTY.
	0720602P	LOWER BLOCK ASSLY	
1	CAAU003130A	HOOK WITH SAFETY LATCH ASSLY	1
2	CAAS003140A	HOOK LATCH ASSLY	1

LOWER BLOCK – 2T



PART NO.	PART CODE	DESCRIPTION	QTY.
	0720608P	LOWER BLOCK ASSLY	
1	CBAU003307A	HOOK WITH SAFETY LATCH ASSLY	1
2	CABS003210B	HOOK LATCH ASSLY	1

WIRING DIAGRAM



ELECTRICAL SPARE PARTS

PART CODE	DESCRIPTION	QTY
XCPE001000A	BASE PLATE FOR STD.(EHII OR EHII+ET) *EHII-N350*	1
XACP0590TMA	SCHNEIDER MAKE CONTACTOR 6A/24V CAT NO LC1K0601 B7	2
XACP0620SMA	SCHNEIDER MAKE CONTACTOR 9A/24V CAT NO LC1D09 B7	2
XCTE0010AVA	AVETRONICS/PRINCE MAKE CONTROL TRANSFORMER 415V/24V,39VA	1
XORE0040SMA	SCHNEIDER MAKE OVERLOAD RELAY 2.5-4A CAT NO LRD08	1
XLSE0010SLZ	Indef Make Limit Switch Element 1NO+1NC, Normal Action, Rating 10A/500V Cat No. SL600N	2
XLSP0090SLZ	Indef Make Limit Switch in Oil Tight Housing, Normal Roller Lever 1NO+1NC, Normal Action, Rating 10A/500V Cat No.SL603N	2
XPBP0003HHL	Indef Make 5 Way Pendant (Emergency Stop,Hoist/ Low Single Speed, Right/Left Single Speed)	1

ELECTRICAL SPARE PARTS GT/PT

PART CODE	DESCRIPTION	QTY
XCPE001000A	BASE PLATE FOR STD.(EHII OR EHII+ET) *EHII-N350*	1
XACP0620SMA	SCHNEIDER MAKE CONTACTOR 9A/24V CAT NO LC1D09 B7	2
XCTE0010AVA	AVETRONICS/PRINCE MAKE CONTROL TRANSFORMER 415V/24V,39VA	1
XORE0040SMA	SCHNEIDER MAKE OVERLOAD RELAY 2.5-4A CAT NO LRD08	1
XLSE0010SLZ	Indef Make Limit Switch Element 1NO+1NC, Normal Action, Rating 10A/500V Cat No. SL600N	2
XPBP0001HHL	Indef Make 3 Way Pendant (Emergency Stop,Hoist/ Low Single Speed)	1

From harbouring a simple dream of becoming a provider of high-quality, truly Indian material handling solutions to becoming the national market leaders, **Bajaj Indef** has journeyed far and long. Right from our incorporation in 1962 till the present day, innovation, excellence, service and customer focus have been some of the key pillars that have carried us thus far and we only aim to take this legacy forward.

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