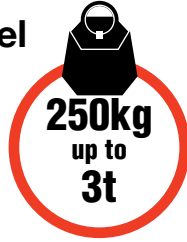


# CM LODESTAR ELECTRIC CHAIN HOISTS

**Electric chain hoist, model  
CM Lodestar  
110v, 230v & 400v**



**Capacities: 250 - 3000kg**

The Lodestar hoist is a tough and durable electric chain hoist, designed to keep working in the most arduous applications.

This hoist is recognised and proven within the hire industry as the number one hoist, where high duty, combined with long heights of lift are required.

From hook suspension in the rental industry to trolley mounted in a factory production line, the Lodestar has a proven reputation as the solution for industrial strength lifting.

**Standard operating voltage: 110v 1ph 50Hz, 230v 1ph 50Hz, and 400v 3ph 50Hz are all available ex-stock.  
Standard operating temperature -10° to +65°C**

**Features and benefits include:**

- Tough lightweight aluminium alloy covers totally enclose the mechanical and electrical components providing protection and efficient heat dissipation. The design enables easy access for installation and service.
- Adjustable upper and lower limit switches.
- 48v control, IP65 pendant as standard (Hoist is IP54).
- Thermal overload protection as standard.
- FEM classification 2m (40% duty - 24 minutes continuous use per hour).
- Motor classification H4.
- Excellent closed height dimensions.
- A lifetime lubricated gearbox contributes to exceptional service and maintenance characteristics.
- Load hook with axial bearing.
- Ideal for long heights of lifts.
- Large frame, single phase hoists are supplied with handles and 1mtr supply cable with Cee-Form plug.



**TECHNICAL DATA**

Model	Operating voltage	Capacity (WLL) kg	Falls of load chain	Lifting speed(s m/min)	Load chain depth x pitch mm	Hoist motor kW	Maximum height of lift	
							56tpi	64tpi
C	230v or 110v 1ph 50Hz	250	1	8	6.3 x 18.9	0.37	79	90
F	230v or 110v 1ph 50Hz	500	1	4	6.3 x 18.9	0.37	39	45
J	230v or 110v 1ph 50Hz	500	1	8	7.9 x 21.7	0.75	48	55
L	230v or 110v 1ph 50Hz	1000	1	4	7.9 x 21.7	0.75	48	55
LL	400v 3ph 50Hz	1000	1	8	7.9 x 21.7	0.75	98	112
LL2	400v 3ph 50Hz	1000	1	8/2.5	7.9 x 21.7	0.75	98	112
R	230v or 110v 1ph 50Hz	2000	2	2	7.9 x 21.7	0.75	25	35
RR	400v 3ph 50Hz	2000	2	4	7.9 x 21.7	0.75	25	35
RR2	400v 3ph 50Hz	2000	2	4/1.3	7.9 x 21.7	0.75	25	35
RT	230v or 110v 1ph 50Hz	3000	3	1.33	7.9 x 21.7	0.75	17	23

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## Key Components of the Lodestar

**MOTOR**  
Both heavy duty and efficient, the Motor is designed to operate on power supplies worldwide. Standard Class F insulation and thermal motor protection.

**HOUSING**  
Cast aluminum, lightweight housing covered with acid resistant powder coated paint for superior durability and protection against elements. Distinctive CM orange color allows easy recognition after installation. The sealed drive shaft and standard weather-proofing gasket and seals provide the hoist with a NEMA 3R rating — suitable for outdoor use.

**CONTROL PANEL**  
Easy access to plug & play connectors allow for quick voltage change for dual voltage motors. Effortless fuse installation when required.

**LIFT WHEEL**  
The Lift Wheel's 5 pockets increase the engagement of the chain and lift wheel to provide smooth lifting with less vibration and reduced chain wear when properly maintained — ultimately extending the life of the chain.

**SUSPENSION**  
Rigid Upper Hook Suspension is standard on every Lodestar. Swivel hook optional. Push, hand-gear, and motorized trolley suspension optional.

**GEAR BOX**  
Precision helical gearing is grease lubricated for quiet, smooth operation, and long service life.

**BRAKE**  
Heavy Duty DC Brake is standard. AC Brake and Double DC Brake are also available.

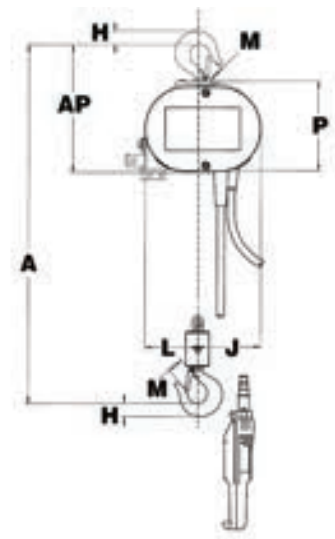
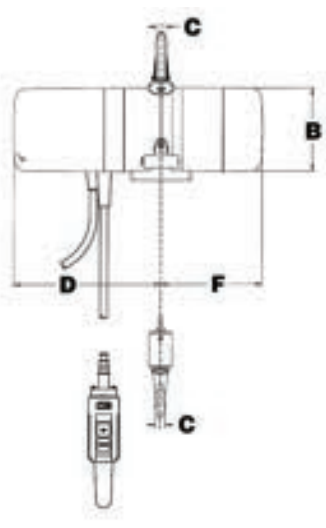
**INTERNAL CHAIN GUIDE**  
The stamped steel Chain Guide, coated for corrosion resistance and quiet operation, keeps the load chain and liftwheel aligned during operation.

**CLUTCH**  
Located outside the gear box for easy access, the Clutch is designed to prevent lifting loads greater than rated capacity.

**LOAD CHAIN & HOOK**  
Both the Hoistway® Load Chain and Forged Steel Hook are manufactured in the USA by Columbus McKinnon. This ensures full compatibility and the highest quality control standards are met at all times. Load Chain is zinc plated for protection against corrosion, and is 100% proof tested.

**LIMIT SWITCH**  
Adjustable screw limit switch that automatically stops the hook at any predetermined point when either lifting or lowering. Limits are field-configurable and can be adjusted to the specific application.

**FABRIC CHAIN CONTAINER**  
Standard on every Lodestar



## DIMENSIONS FOR HOOK SUSPENSION HOISTS

Model	Lodestar 250 / 500	Lodestar 500 / 1000	Lodestar 2000	Lodestar 3000
Frame type	A, B, C, F and AA	J, L, JJ and LL	R, RR	RT
A, mm	413	471	613	750
B, mm	156	194	194	194
C, mm	17	22	28	28
D, mm	279	241	241	241
F, mm	197	271	271	271
H, mm	25	30	38	38
J, mm	100	138	165	165
L, mm	122	184	157	157
M, mm	25	28	33	33
P, mm	168	198	198	198
AP, mm	235	271	284	319

