

LODESTAR®

ELECTRIC CHAIN MOTOR

CAPACITIES

650 kg to 2 tonne

LIFT

18 metre standard***

SPEEDS

1.5 to 30 metre/minute

VOLTAGES

1-phase & 3-phase available

From World touring rock concerts and Broadway musicals to Las Vegas shows and sporting events, the CM Lodestar is the trusted industry workhorse.

The New Generation Lodestar complies with BGV-D8, BVG-D8+ and igvw SQ P2 codes of practice.

STANDARD FEATURES

IP 66 RATING

An Ingress Protection (IP) Rating of 66 indicates that the Lodestar offers protection from dust and high-pressure water – making this unit ideal for use in outdoor environments.

ADJUSTABLE CLUTCH

Clutch outside of gear train meets International standard and is fully adjustable. Designed to prevent damage to hoist by preventing excessive overloads.

5 POCKET LIFTWHEEL

Improved chain wear & smooth lifting.

PRECISION HELICAL GEARING

Designed for long wear life, and smoother operation.

REDESIGNED CONTROL PANEL

For easier access.

HEAVY DUTY DC BRAKE

Designed for a long service life, the brake location allows for quick access & easy inspection.

LOW VOLTAGE CONTROL

110 Volt for long cable runs without voltage drop. 24 & 48 Volt optional. (Low Voltage Unit Only)

DURABLE & LIGHTWEIGHT HOUSING

Cast aluminum. Black powder coated finish for low visibility.

GEARING

Helical design for long wear life and smooth operation.

LOAD CHAIN

Designed and manufactured by Columbus McKinnon. Zinc plated to protect against corrosion. Optional black finish available.

DUTY CYCLE

2M FEM class. 40% Duty Cycle 240 operations for H-4. 240 for FEM per hour.

ELECTRICAL

Finger safe wiring meets all electrical codes. Quick change plugs allow for voltages 208 through 460. Prevents improper voltage connections which can cause hoist damage. (Low Voltage Unit Only).

ADJUSTABLE LIMIT SWITCH

Adjustable screw limit switch that will automatically stop the hook at any predetermined point when either lifting or lowering, preventing overtravel. (Low Voltage Unit Only).

METRIC RATED MEETS REQUIREMENTS

Meets or exceeds world standards.

ROAD READY

Easy to stow and travel.



LIFT WHEEL

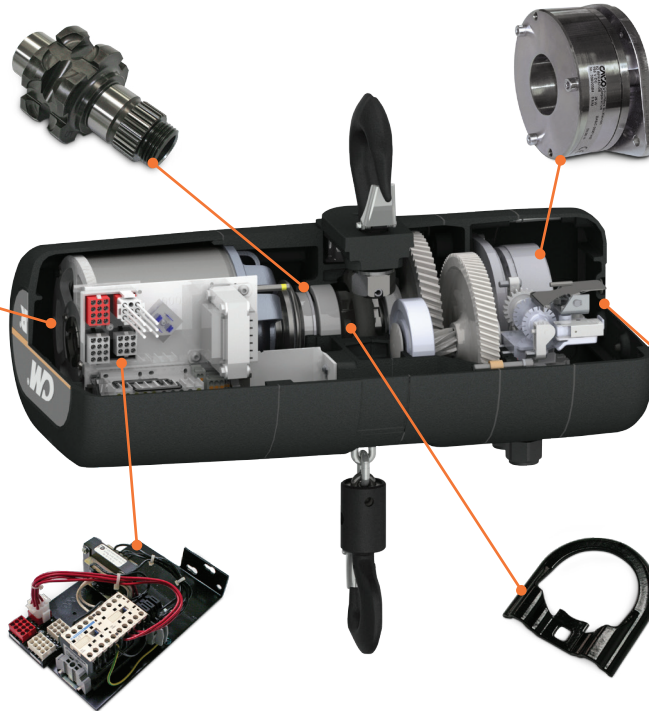
5 Pocket liftwheel increases chain and liftwheel engagement while providing smoother lifting, less vibration and reduced chain wear when properly maintained.

**ADJUSTABLE CLUTCH**

Designed to prevent lifting of excessive overloads. Located outside the gear box and easy to access.

CONTROL PANEL

Provides easy access to controls, plug and play connectors allow for quick voltage change for dual voltage motors. Fuses located on terminal strip (optional).

**BRAKE**

Heavy duty DC brake is standard. AC brake and double DC brake are also available.

LIMIT SWITCH

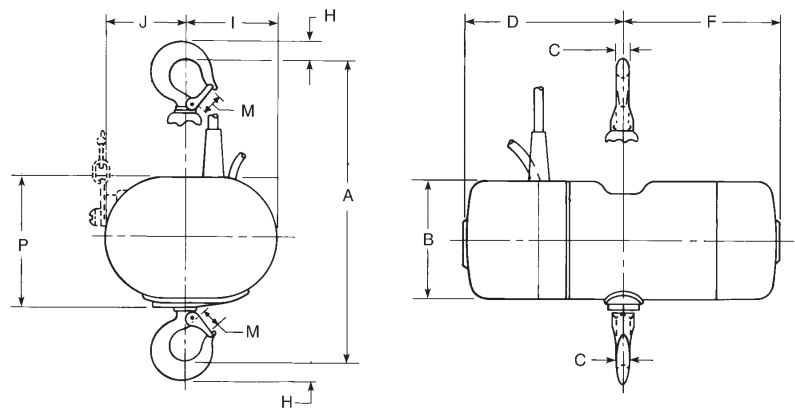
Adjustable screw limit switch that will automatically stop the hook at any predetermined point when either hoisting or lifting.

**INTERNAL CHAIN GUIDE**

Stamped steel guide coated for corrosion resistance and quiet operation, while keeping the load chain and liftwheel aligned.

**DIMENSIONS**

Drawing Legend	Dimensions (mm)	
	D8 Series J, L, LL	D8 Series JJ, R, RR
B	194mm	194mm
C	22mm	29mm
D	253mm	253mm
F	329mm	329mm
H	30mm	38mm
I	145mm	179mm
J	176mm	142mm
M	28mm	33mm
P	208mm	208mm

**SPECIFICATIONS**

Type	Rate Capacity	Standard Lifting Speed at 50Hz	Operating Voltage	Single Phase Voltage	FEM Class	FEM Duty Factor	Chain Weight Per Metre Lift-EWL	Load Chain EN 818-7 (mm)	Power Consumption - Full Load	Reeves Fall of Chain	Motor HP	Protection Class	Noise Level
Model J	500kg	8m/min	400-3-50	-	2M	40%	1.42kg	7.9 x 21.7	2.3A	1	1 HP	IP 66	68 db (A)
Model JJ	500kg	16m/min	400-3-50	-	2M	40%	1.42kg	7.9 x 21.7	3.6A	1	2 HP	IP 66	68 db (A)
Model L	1000kg	4m/min	400-3-50	optional	2M	40%	1.42kg	7.9 x 21.7	2.3A	1	1 HP	IP 66	68 db (A)
Model LL	1000kg	8m/min	400-3-50	-	2M	40%	1.42kg	7.9 x 21.7	3.6A	1	2 HP	IP 66	68 db (A)
Model R	2000kg	2m/min	400-3-50	optional	2M	40%	2.84kg	7.9 x 21.7	2.3A	2	1 HP	IP 66	68 db (A)
Model RR	2000kg	4m/min	400-3-50	-	2M	40%	2.84kg	7.9 x 21.7	3.6A	2	2 HP	IP 66	68 db (A)

*** Lifts other than 18 metres available (Standard Units shipped less chain unless specified). Consult factory for additional speeds and capacities

OPTIONAL FEATURES**DOUBLE DC BRAKE**

Two independent acting DC brakes for redundant braking. Field installation kit available.

DOUBLE LIMIT SWITCH

Adjustable screw limit switch that will automatically stop the hook at any predetermined point when either hoisting or lifting.

VARIABLE SPEED UNITS AVAILABLE (VFD)

Varistar or variable speed versions available, please contact your CM-ET sales representative for details.

CHAIN BAGS

Cloth type bags easy-to-mount.

DIRECT CONTROL UNITS

The CM LodeStar is available as a Direct Control Unit. Featuring a single cable, this Direct Control Unit can be used as part of a system with multiple units with a single control. The LodeStar is compatible with most Direct Control Motor Controllers.