

CM Hoists

CM, or Columbus McKinnon, is likely the most recognized name in electric hoists in America. CM has been building hoists for generations, and their characteristic round orange body stands out. The CM lodestar hoist is the primary model, using a three phase motor to operate a chain lifting system. Although most CM lodestar hoists are rated between one and three tons, the CM hoist is available in most capacities. CM also markets the Apollo wire rope hoist, the Hurricane hand-powered hoist, and the 653 hand-lever operated hoist. When specifying a CM hoist, it's important to decide if power or manual operation is your choice. Although power CM hoists have more moving parts than a manually operated hoist, Dearborn Overhead Crane technicians are skilled in diagnosing and repairing CM hoists. A CM hoist is the standard by which all other hoists are judged by. The CM hoist range provides a wide range of capabilities and capacities.



Left to Right: The CM Lodestar Hoist, The CM Lodestar Power Trolley Hoist, The CM Apollo Wire Rope Hoist, and the CM Hurricane hand-chain hoist.

Rugged control station (optional)

Completely sealed control station is rated NEMA for impact-resistant control station for extreme durability

- * Impact-resistant control station for extreme durability
- * Snap-action contacts for positive control and reduced downtime caused by electrical arcing.
- * Internal strain relief made from high-strength aircraft cable prevents control cable from being pulled out of hoist or control station
- * Low voltage (120 volts) control circuit.

Simple installation and service

Accessible design makes the CM Lodestar hoist the easiest electric chain hoist to install and service, featuring:

- * Completely identified wiring for fast, simple connections.
- * Easy access to working parts for fast troubleshooting and repair.
- * Reduced maintenance for less downtime, greater productivity.
- * Three phase single speed models offer simple voltage change for adaptability to different applications.
- * Easy voltage change makes any single speed three phase Lodestar usable on either 230 or 460 volts - eight quick-connect terminals are transferred in seconds.

Solid state starting switch

115 volt single phase Lodestar hoists are equipped with an instant reverse, solid-state switch that:

- * Eliminates the mechanical centrifugal mechanism and reversing switch, the most common sources of unscheduled maintenance and motor burnout in single phase hoists.
- * Reduces stress on starting capacitor with elimination of moving parts in motor start/reverse switch.
- * Improves electrical reliability, reducing downtime.

Heavy-duty hoist motor with regenerative braking

Hoist motor designed for industrial applications. Integral motor design:

- * Meets or exceeds HMI (Hoist Manufacturing Institute) duty cycle rating for heavy duty service (H4).
- * Provides efficiency and cooler operation for longer life.
- * Gives substantially higher duty cycle for greater productivity.
- * Uses efficient regenerative braking that avoids heat generation or power reduction in power train.
- * Single speed or 3:1 two speed option.
- * 30 minute rated motor.

Machined alloy steel heat treated lift wheel

Precision machined and heat treated for additional strength and durability.

- * Smooth, reliable operation.
- * Reduced wear for longer lift wheel, chain guide and chain life.
- * True vertical lift.

Lifetime lubricated machined and heat treated gears

Simple spur and helical triple red system operates in grease and provides superior service and maintenance.

- * Superior service and maintenance.
- * Smooth operation/reduced wear.
- * No oil changes required.
- * No oil contamination of loads or hoist.
- * No troublesome seals to leak or fail.
- * Lifetime lubricated ball bearings bearing, rotating shafts.

Disc Type electrical

Heavy-duty electrical provides positive performance.

- * Securely hold event of power in mechanical systems.
- * Requires little adjustment.
- * All 1/2-2 ton Lodestars.

Extra long lift screw limit

Tailor hoist of your specific Adjustable switches:

- * Come factory travel, but e any desired.
- * Prevent damage of hoist load.
- * Holds limit engaging Pt

Cast aluminum alloy housing and covers

Integral frame and housing design provides lightweight, low profile hoist for:

- * Minimum headroom/maximum lift.
- * Better heat dissipation from motor, brake and gear train for increased productivity.
- * Factory weatherproofing available for use in adverse conditions.
- * Acid-resistant, durable powder coated finish is standard.

Hardened steel chain guides

Chain guides completely surround the lift wheel to:

- * Maintain proper load chain fit.
- * Jam-resistant chain feed for reduced maintenance and downtime.

Standard overload protection

CM Lodestar Protector takes the worry out of hoist operation through:

- * Positive overload protection that prevents lifting of dangerous overloads.
- * Extra security in the event of limit switch misadjustment or misphasing of power leads.

Drop forged, heat treated hook lifting chain

Superior quality overhead lifting forged suspension and load hook.

- * Higher strength for lifting confidence.
- * Greater durability for longer life.
- * CM Hoistakoy load chain for maximum strength and wear resistance.

