

MACTON® Transportation Products

C-Frame In Ground Car Hoist

For Rail Maintenance Facilities



The Macton C-Frame Car Hoist System increases shop productivity and safety by allowing shop personnel to perform inspection, maintenance and repair of rail vehicles that are elevated at a convenient height above the shop floor. The C-Frame design allows a dismantled truck assembly to be moved through the hoist, underneath the elevated railcar, eliminating the need for truck turntables between the hoists. This saves space, allowing for a smaller shop configuration. The system comes with two sets of rails: one to continuously support raised vehicles and the other on the shop floor level to allow lowered trucks to pass under the railcar.

The C-Frame system is available both with the shallow pit and deep pit foundation design.

Macton fully assembles and tests all equipment at our facility prior to shipping to reduce onsite installation time and ensure that the equipment will function properly once installed.



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TYPICAL SPECIFICATIONS

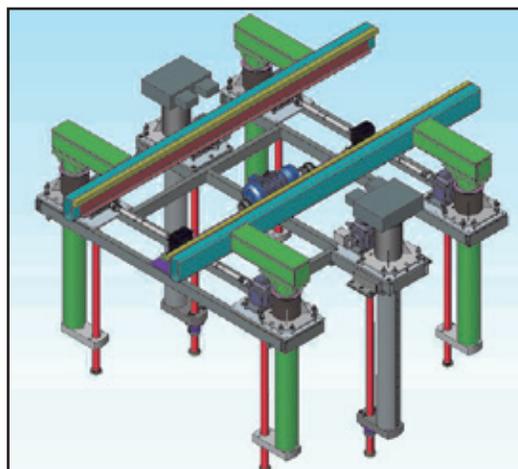
C-FRAME IN-GROUND HOIST - for Rail Maintenance Facilities

Typical Capacities and Dimensions

Hoist capacity	20 tons (40,000 lbs) per pit
Hoist lift (vertical travel)	5 feet (60 in)
Hoist lifting rate (speed)	60 in/min
Length of lifting rails	11 feet (132 in)
Body Support capacity (per pair)	20 tons (40,000 lbs) per pair
Body Support vertical travel	7 feet (84 in)
Body Support raise/lower rate (speed)	60 in/min
Power requirements.....	200 amp, 480 VAC, 50/60 hz

Drive System

The hoist drive system consists of four self locking acme machine screws with an aluminum bronze load nut and a steel safety nut. One central motor drives the four screws through a series of beveled gear boxes and drive shafts. If the shallow pit foundation is used, the screws are housed in an enclosed caisson and lubricated by means of a continuous oil bath providing optimal wear life for the load nut.



Operator Controls

Fixed column mounted or pedestal type panel with optional remote. An LCD display on the operator control panel provides operating and fault condition messages to facilitate hoist operation and troubleshooting.

Safety Features

Standard safety features include: visual and audible indication of hoist operation, motion control system that will shut down the hoist system if one of the screw jacks stops moving, nut wear sensors, nut separation switches, emergency stop buttons and body stand load detection switches.

The above specifications apply to Macton's standard Car Hoist System. Macton combines over 30 years of Rail Shop Equipment experience with extensive in-house engineering capability to provide our customers with the option of custom-engineered systems to accommodate special applications or site requirements.

For more information on C-Frame In-Ground Hoists and a complete list of Macton Rail Shop Equipment and Capabilities, please visit us on the web at macton.com or email Denise Louder at dlouder@macton.com.



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