

MACTON® Transportation Products

SHALLOW PIT IN-GROUND HOIST

For Rail Maintenance Facilities



The Macton Shallow Pit Car Hoist System increases shop productivity and safety by allowing shop personnel to perform maintenance, repair and inspection of rail vehicles that are elevated at a convenient height above the shop floor.

The equipment uses a mechanical screw design with self-locking screw threads and a safety nut providing failsafe protection. With the shallow pit design, the screw and nut drive system is housed in a caisson for maximum protection. The system utilizes oil bath lubrication improving performance and providing extended thread wear life over other lubrication systems thus reducing maintenance and repair downtime.

Foundations for the Shallow Pit Car Hoist Systems require less excavation, reducing construction costs and minimizing problems caused by troublesome ground conditions such as high water tables.

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



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TYPICAL SPECIFICATIONS

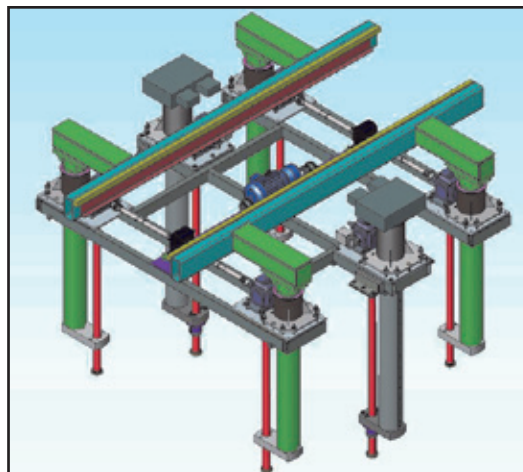
SHALLOW PIT IN-GROUND HOIST - for Rail Maintenance Facilities

Capacities and Dimensions

Hoist capacity	20 tons (40,000 lbs)
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)
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. 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 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 Car Hoist Systems 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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