



RAILCAR MAINTENANCE + LIFTING EQUIPMENT

Whiting

WHITING RAILCAR MAINTENANCE EQUIPMENT

RELIABLE. ROBUST. RUGGED.



Whiting is the trusted name for railcar maintenance and lifting equipment for freight and commuter railroad industries, municipal transit authorities, railcar builders, and independent maintenance shops.

Whiting railcar maintenance equipment is custom-built to your needs based upon many years of engineering knowledge and expertise.

PORTABLE ELECTRIC JACKS

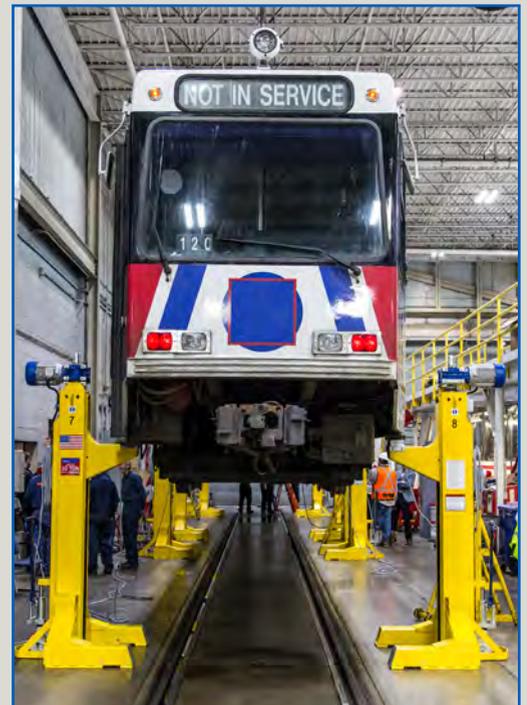
The outstanding design and quality construction of Whiting Portable Electric Jacks provide years of dependable service with minimum required maintenance. Portable Electric Jack construction starts with a steel base. Welded to the base is a structural steel column assembly which guides a steel-alloy screw, complete with precision machined buttress threads and a bronze-alloy nut. The jack nut travels on the screw and supports the lifting bracket. The screw is keyed to a worm gear and is supported by a large thrust bearing. The result is a Whiting Portable Electric Jack with dependable load-lifting capacity at any point within the lifting range of the system. Whiting Portable Electric Jacks range from 15 to 60 tons and are optimal for freight and transit rail applications.

Key Features

- All-welded rugged structural steel frame construction
- Easy and reliable maneuverability
- Standard lower limit and over travel switch
- Bronze-alloy lifting nut designed for long life
- Sealed bellows offering superior dust and debris protection

Whiting Low Capacity Jacks

are perfect for transit applications and range in size from 5 to 25 tons. It is possible to synchronize up to 128 jacks, meaning you can lift single transit vehicles, married pairs, or entire consists. Because of their high mobility, safety, and ease-of-use, Whiting's Low Capacity Jacks are the choice for transit maintenance shops across the country.



SINGLE AXLE / FULL TRUCK DROP TABLES + LOCOMOTIVE BODY SUPPORTS

Whiting was a pioneer in the development of the Drop Table concept. Known for their reliable and safe operation, Drop Tables are available for either single axle or full truck removal. Wheel set change outs are quick, efficient, and cost effective because of Whiting's time-tested designs.

Key Features

Operator Console - Whiting Drop Tables feature a remote console so the operator does not need to be close to the table during operation.

Customized Capacity - Whiting has installations now operating in 4 to 26 foot wide pits with lifting capacities ranging from 20 to 125 tons across North America.

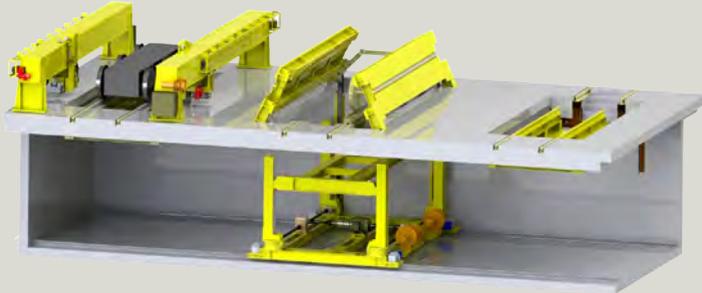
Self-Locking Jack Screws - Whiting's Drop Table design features self-locking jack screws that remain stationary in the event of a drive mechanism malfunction.

Release Track Top - Equipment installations can include a release track top, which can be designed as a lift-off or bascule-type door.

Rugged Components - Drop Tables feature welded steel construction, splash lubricated gearing, sealed bearings, and self-locking screws and nuts.

Locomotive Body Supports

When removing full trucks, the locomotive is located and supported over the table top by Body Supports. Standard capacities range from 30 to 62½ tons.



*Full Truck Drop Table System
with Release Top and Body Supports*



Bascule-Type Release Top Doors



Single Axle Drop Table

CAR HOISTS, BODY HOISTS + BODY SUPPORTS

Car Hoists raise the entire transit car to a convenient height for worker access to underbody and side components. Utilizing a time-tested mechanical screw and nut design, two or four screw designs are standard in capacity ranges up to 50 tons. Cars can be raised individually, articulated,

or in married pairs with hoists positioned under each truck location. Depending on your site needs, Whiting Car Hoists can be custom engineered for deep or shallow pit configurations. An important feature of the electro-mechanical screw and nut design requires motor power to the Car Hoists to both raise and lower, thus minimizing the possibility of inadvertent lowering of the hoist with personnel near the car.



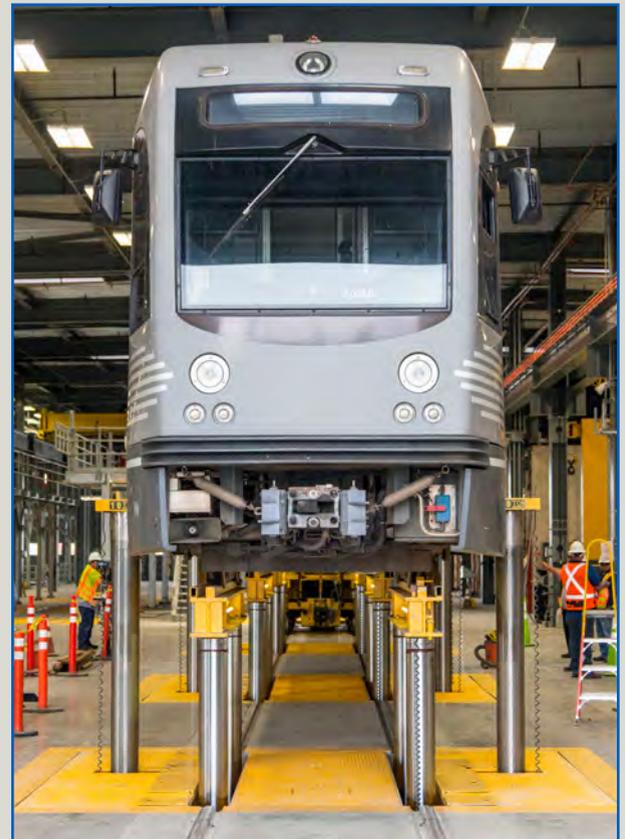
Left: Car and Body Hoists Work in Unison to Lift a Pair of Light Rail Vehicles

Body Hoists + Supports utilize lifting pads that contact the transit car at jacking points. Once a car is in position, the Body Hoists and Supports are elevated into contact with the jacking pads on the car. The hoists and supports can be used in conjunction with the car hoists to provide body and truck separation, or for elevating the bodies to convenient heights for under car inspection and repair. Standard capacities range from 5 to 20 tons.



Above: Pass-Through Car Hoist System

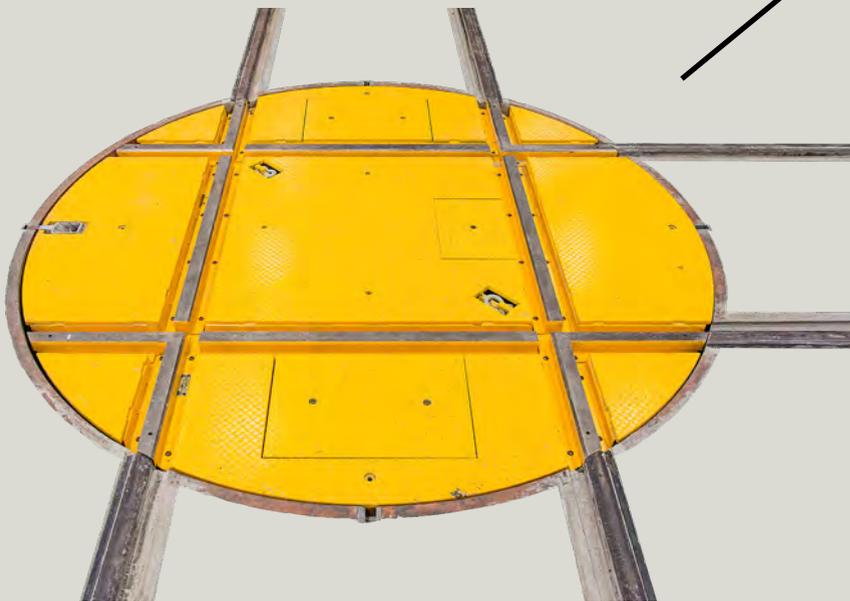
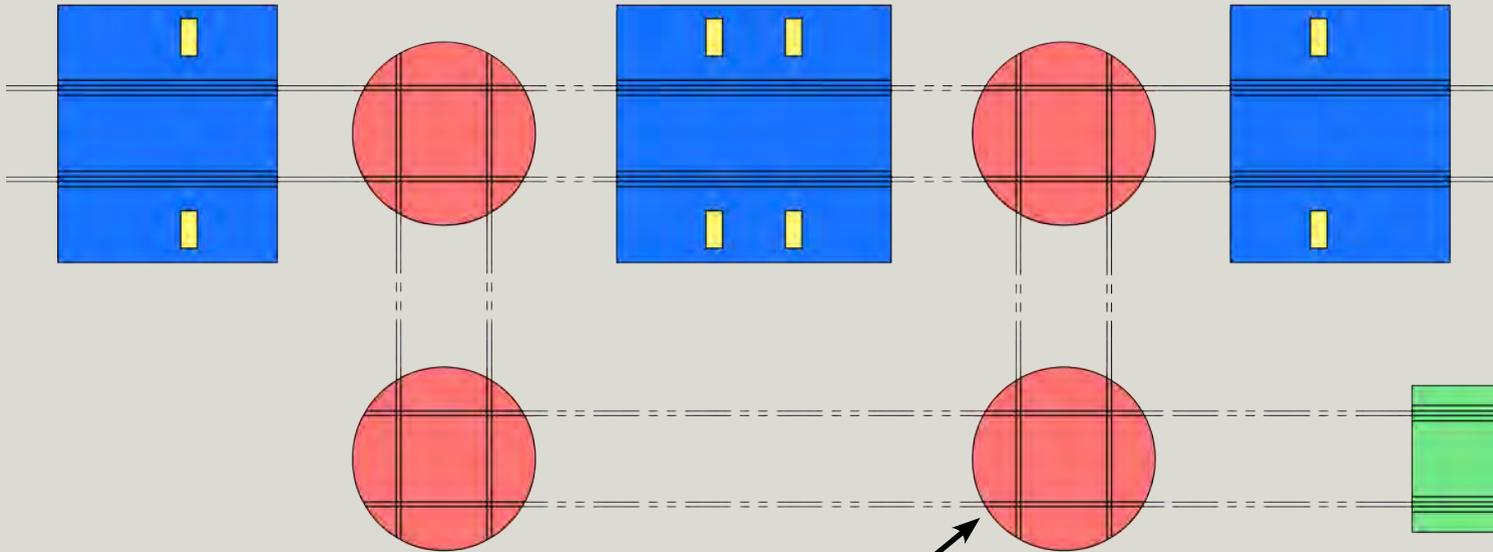
Right: Car and Body Hoists Lift an Articulated Light Rail Vehicle



EQUIPMENT FOR TRANSIT MAINTENANCE SHOPS

Whether you are modernizing your present maintenance facility or building a brand new one, Whiting is able to work with your staff and outside contractors to help lay out your maintenance shop equipment to maximize shop effectiveness and minimize worker risk.

Transit maintenance shops are generally composed of four major pieces of equipment that work in harmony to quickly service transit railcars: Car Hoists, Body Hoists, Turntables, and Truck Repair Hoists.



Turntables

Whiting Turntables are extremely rugged, well-balanced, and are custom engineered in different sizes based upon the application. Turntables can be manual or motorized for efficient turning of rail trucks.

With time-tested designs and application engineers, and build your next railcar maintenance shop.



Car Hoists + Body Hoists

These hoists work together to elevate the entire transit car to a convenient height for worker access to underbody and side components, as well as to facilitate bogie truck change outs. The body hoists can be used in conjunction with the car hoists to provide body and truck separation and easy change out of truck sets.

Truck Repair Hoists

Truck Repair Hoists provide maintenance personnel with a convenient access height for the inspection, maintenance, and repair of the truck and bogie, and are known for their long-term reliability and open design for easy and safe truck servicing.



*and a staff of experienced product
Whiting is ready to help design
railcar maintenance shop.*

TURNTABLES + TRANSFER TABLES

Turntables are custom-engineered and manufactured in different sizes based upon the application. Whiting Turntables are extremely rugged, well-balanced, and are suitable for the heavy demands of transit and freight maintenance shops. With minimal routine maintenance needed, Whiting Turntables are known for their long-term reliability and safety. Turntables are available to rotate a single truck in 90° increments and can be either manual or motorized in their operation. Locomotive Turntables reduce the need for extended track turnabouts, and are motorized with a remote operator station for safe and easy use. Whiting Turntables utilize both center bearing and caster designs depending on your application.



Manual Single-Truck Turntable



Motorized Locomotive Turntable

Transfer Tables are an invaluable tool for maintaining traffic flow between tracks in a car repair or maintenance shop by allowing for the movement of rail cars or locomotives between parallel tracks. Whiting custom designs and manufactures each Transfer Table to meet the

customer's exact capacity and length requirements. While Transfer Tables normally require a pit up to several feet deep, Whiting can custom engineer a pitless Transfer Table that will still permit normal traffic flow even when the transfer table is busy on another track.



TRUCK REPAIR HOISTS + RIP JACKS



Truck Repair Hoists range in size from 9 to 15 tons, and are available in deep or shallow pit configurations. A Truck Repair Hoist's primary purpose is to increase shop safety and efficiency by providing maintenance personnel with a convenient access height for the inspection, maintenance, and repair of the truck. Using a rugged and proven electro-mechanical steel-alloy screw and bronze-alloy nut design, the two-screw Truck Repair Hoists offers self-

locking nuts along with steel safety nuts as backup for added fail-safe protection. Added features like over-travel limit switches help make the Truck Repair Hoists one of the safest pieces of equipment in your maintenance shop. With minimal routine maintenance needed, Whiting Truck Repair Hoists are known for their long-term reliability, open design for easy truck servicing, and safety in maintenance shops.

RIP (Repair In Place) Jacks offer a variety of lifting capacities and can be customized for your RIP Track application. Whiting offers RIP Jacks in a variety of capacities up to 150 tons with three parallel hydraulic lifts. The use of Whiting RIP Jacks leads to increased car utilization as the work flow is now completed in a shorter time period. Whiting RIP Jacks feature a remote console so the operator does not need to be close to the freight car while the lift is in operation.



RAILCAR MOVERS + CAR PROGRESSION SYSTEMS



Railcar Movers are needed when moving cars into maintenance shops, assembling or disassembling trains, and moving railcars around the yard. Whiting's innovative railcar movers are able to be utilized on and off the track, and can operate within closely confined spaces, such as tunnels or railcar workshops. With its patented rail wheels for enhanced traction performance, and minimum turning radius in road mode, the heavy-duty Whiting Railcar Movers are easy-to-operate and maintain, and do not compromise the safety of the operator. Whiting offers an all-electric line with models that will move loads from 100 to 2,600 tons, and diesel-powered models that can move up to 5,600 tons making it perfect for Transit and Class 1 railroad operations.



Car Progression Systems

operate on a dedicated track and are used to progress one or many cars at a time along a maintenance line. These systems avoid many of the obvious hazards associated with the usual exposed tag line car pullers. Partially or fully automated designs are available to fit your application

The load advancing robot arm can contact the car axle, coupler, car-end frame, journal box, or other point consistent to the cars being progressed. It can also be used to move trucks only to and from a truck repair area. Whiting can design a fully automated and engineered-to-order Car Progression System for your rail yard.

WHITING'S COMMITMENT TO OUR CUSTOMERS AND EQUIPMENT



THE WHITING WAY

Whiting engineers spend the time asking the right questions to understand the unique application aspects for a custom solution that meets the needs of our clients. Whiting Corporation uses careful and thoughtful design to maximize equipment uptime. Whiting's line of railcar maintenance equipment offers time-tested designs with a focus on maintainability and reliability. Whiting offers specialized engineering and design services to suit all of your requirements, all from a single source. To reduce installation time and costs, all of our equipment is assembled and tested in our factory before it is installed.

RAILCAR MAINTENANCE EQUIPMENT SERVICES

Whiting Services will help keep your railcar maintenance equipment in a state of good repair with a variety of services. We offer round-the-clock national coverage, and have the experience and materials necessary to inspect and repair malfunctioning equipment to minimize your downtime. From training to inspection and maintenance programs, Whiting Services can provide a comprehensive variety of services necessary to keep your equipment operating at maximum efficiency. Learn more at WhitingServices.com.



OEM REPLACEMENT PARTS

Whiting's state-of-the-art manufacturing capabilities, in-house technical support, warehouse, and distribution facilities as well as critical-mass purchasing power gives us the ability to provide you with a full range of OEM parts for all of your railcar maintenance equipment needs.

Whiting's full-time and full-service parts department, staffed with engineering and quality assurance personnel, is always available to get replacement parts into your hands quickly, with a guarantee that they will work with your equipment.



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