MACTON® Transportation Products

SINGLE AXLE DROP TABLE

For Rail Maintenance Facilities

Macton single axle drop tables are designed for rapid change out of locomotive wheel set and traction motor assemblies. The Macton Single Axle Drop Table System features self-locking machine screws for lifting and a Programmable Logic Controller (PLC) control unit for integration of interlocks to provide maximum operator and machine safety. Drop table systems with multiple service tops allow customers to service more than one locomotive at a time increasing flexibility and efficiency of locomotive servicing operations. An automatic lubrication system provides a continuous flow of grease to the machine screws and lifting nuts to maximize lift system component longevity.

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

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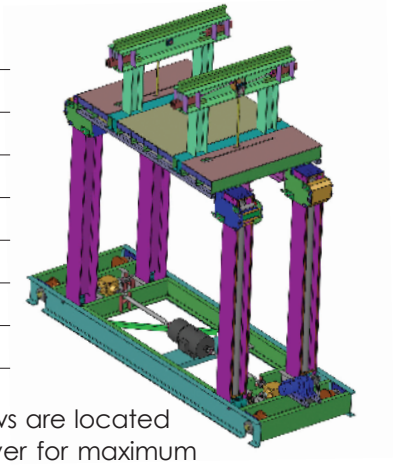
TYPICAL SPECIFICATIONS

DROP TABLE SYSTEMS - for Rail Maintenance Facilities



Typical Specifications

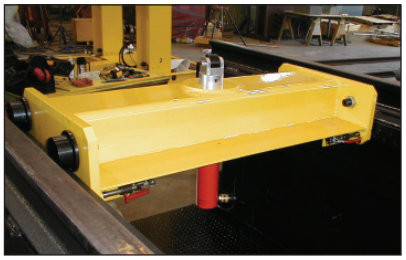
Capacity	50 Ton
Hoist speed	3 ft/min
Hoist lift (Nominal)	7 ft
Racking speed (traverse from service track to release track)	30 ft/min
Hoist Motor	20 hp
Length of service top	6 ft 6 in
Power requirements	200 amp, 480 VAC, 50/60 hz

The carriage lifting system uses four Acme self-locking acme machine screws. The screws are located on the outside of each of the four guide columns and enclosed with a stationary cover for maximum protection from debris and contamination. The vertical travel of the bridge is guided by rollers for the entire travel and an automatic lubrication system is provided to minimize the wear of the screw and nut. The lifting jacks on the carriage are fully interchangeable, there are no left and right hand jacks.

"Lift-free" indicator light signals when the Drop Table is clear of the service track top. This prevents damage to the Drop Table by a locomotive traversing the top while still supported by the Drop Table rather than the service top locking mechanism

Inverter controlled racking and PLC control allows the operator to select the destination of the Drop Table. Once the travel is initiated the Drop Table smoothly accelerates to full speed, travels until the stop is within range, decelerates to a creep speed and stops in position at the center of the selected track. This prevents a the high rate of wear associated with the drive train on a Drop Table operated with only a motor starter that has to be started full speed and jogged into position.

Drop table may be equipped with bascule top designed to open as the drop table raises to facilitate the removal of locomotive wheel sets from the service top.



An optional traction motor dolly may be used to support and align the traction motor frame during change-out. Large diameter rollers allow the dolly to be easily positioned and a latch mechanism holds the dolly in position. The hydraulic cylinder uses a 110V power pack.

The above specifications apply to Macton's standard Drop Table 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 Drop Table 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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