

HY-RAIL® Guide Wheel Attachment

The Harsco Track Technologies' **HR4500 Series A HY-RAIL®** guide wheel attachment is used to adapt heavy-duty, chassis-cab trucks and similar vehicles, that meet Harsco Track Technologies' recommended vehicle specifications for highway and railway applications.

The **HR4500 Series A** unit is for rear position installation and may be used in conjunction with other Harsco Track Technologies' front units.

This unit features a self-centering, true side-shift mechanism that enables the operator to place a vehicle "on-rail" even when the rear of the vehicle is out of position. The unit is also equipped with the proven Harsco Track Technologies adjustable coil spring suspension for a smooth ride under various load conditions and the security of continuous guide wheel contact with the rail through road crossings, turnouts and crossover.

Manual raise/lower valves located at the unit allow the operator to verify proper alignment of guide wheels into the proper "on-rail" position.

Mounting brackets are specifically designed for each approved vehicle model to make installation easier and assure mounting integrity. Available are optional air-actuated, tread-type brakes with composition shoes and optional fixed rail sweeps.

Lever-released, positive mechanical locks hold the guide wheels in the highway and rail positions.

Like all HY-RAIL® guide wheel units, **HR4500 Series A** units are manufactured with proven HTT quality methods such as non-destructive evaluation of critical parts using x-ray and/or ultrasonic methods to assure reliable service.

Harsco Track Technologies' **HR4500 Series A HY-RAIL® Guide Wheel Equipment**: Make it your choice for dependable highway/railway transportation.



"Complete Maintenance Solutions Through Innovative Technology & Hands-on Experience"

HTT
Harsco Track Technologies

Harsco

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HR4500 Series A HY-RAIL® Guide Wheel Equipment Specifications

COMPATIBLE VEHICLES

Type Heavy-duty chassis-cab trucks with single or tandem rear axles

WEIGHT CLASS

GAWR – Rear Axle Up to 50,000 lbs. (22,680 kg) maximum

GUIDE WHEEL UNITS

Construction Fabricated steel unit – welded and bolted construction

Attachment to Vehicle Universal rear unit bolts to vehicle's chassis rails – multiple standard spaced mounting holes enable adjustment of unit mounting for frame height and vehicle load

Rail Wheels Austempered ductile iron precision machined

Tread Diameter 16.00 in. (406.4 mm)

Flange Diameter 18.09 in. (459.4 mm)

Wheel Bearings Heavy-duty, tapered roller

Brakes Available – Air-actuated, tread-type, with single Cobra composition brake shoe on each rail wheel

Safety Locks Positive mechanical lock – locked in highway and rail positions. Lock release lever secured by a safety pin.

Derail Skids Built-in – standard

Rail Sweeps Available – bolt on, manually actuated

Raise/Lower Actuation Hydraulic, double-acting cylinders with manual control valve located near unit

WEIGHTS & DIMENSIONS

Unit 1,650 lbs. (748.4 kg) installed

Track Gauge 56.5 in. (1435 mm) – standard

LOAD CAPACITY

Per Guide Wheel 25,000 lbs. (11,340 kg) maximum load

REQUIRED AUXILIARY EQUIPMENT

Steering Lock Steering column mount – manual actuation on steering wheel

Mounting Brackets and Spacers Designed for each approved vehicle model

HYDRAULIC SYSTEM REQUIREMENTS

Flow Range 5-8 gpm (18.9-30.2 lpm)

Operating Pressure 1,800 psi (124.1 bar) maximum

FACILITY LOCATIONS:

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