

## 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.



Rear position installation of a HR4500 Series A unit

*"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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