



The Harsco Track Technologies' **HR4000 Series V HY-RAIL®** guide wheel attachment is used to adapt heavy-duty, chassis-cab trucks meeting Harsco Track Technologies' recommended vehicle specifications for highway and railway applications where a vertically-actuating front unit is desired. The unit attaches to the vehicle's front end with mounting brackets and spacers specific to the vehicle model.

HR4000 Series V units are for front end position installation and may be used in conjunction with other Harsco Track Technologies' rear units.

HR4000 Series V units feature mounting flanges with multiple mounting holes and telescoping guide tubes with internal coil spring suspension and externally mounted double acting hydraulic cylinders for raising and lowering the unit.

With bolt-on mounting, the unit is easily adjustable for vehicle load, clearances and tracking. Air-actuated, tread-type brakes with composition shoes are standard. Optional fixed rail sweeps are available.

HR4000 Series V units are available in insulated and non-insulated versions. A hydraulic power unit is also available for installation on vehicles not equipped with hydraulic systems.

HTT

Harsco Track Technologies

Harsco

FEATURES & BENEFITS

- The **HR4000 Series V** units are vertical-actuating.
- The unit's adjustable coil spring suspension provides a smooth ride, enhances traction of the vehicle's drive wheels, and maintains guide wheel/rail contact in road crossings and turnouts.
- Series V unit is attached to the vehicle by bolt-on mounting brackets, enabling adjustment for vehicle load, clearances and tracking.

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

HR4000 Series V HY-RAIL® Guide Wheel Equipment Specifications

COMPATIBLE VEHICLESHeavy-duty chassis-cab trucks with single or tandem rear axles

WEIGHT CLASS

GAWR – Front.....Up to 20,000 lbs. (9,072 kg) maximum**

GUIDE WHEEL UNITS

ConstructionFabricated steel unit – welded construction
Attachment to Vehicle.....Universal unit bolts to vehicle's chassis rails – multiple, standard spaced mounting holes enable adjustment of unit mounting for frame height and vehicle load.
Suspension.....Enclosed coil springs
Rail WheelsAustempered 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, re-lubrication by hand pack method
BrakesAir-actuated, tread type, with single Cobra composition brake shoe on each rail wheel
Safety Locks.....Two sliding bolt action pin-type safety locks. Lock unit in both highway and rail positions. Locks secured by spring loaded handle in detent.
Derail SkidsBolt-on – Standard
Rail SweepsAvailable – Bolt-on, manually actuated
Raise/Lower ActuationHydraulic, double-acting cylinders with manual control valve located near unit

WEIGHT & DIMENSIONS

Unit.....985 lbs. (447 kg) installed
Track Gauge56.5 in. (1435 mm) – Standard

LOAD CAPACITY

Unit with vehicle20,000 lbs. (9,072 kg) / 10,000 lbs. (4,336 kg)
@ curb weightmaximum load per guide wheel

REQUIRED AUXILIARY EQUIPMENT

Steering LockSteering column mount – manual actuation on steering wheel
Mounting Brackets.....Designed for each approved vehicle model and Spacers
Axle HooksSupport front axle to maintain clearance between vehicle's tires and the rail in rail position – manual actuation from front of vehicle.

HYDRAULIC SYSTEM REQUIREMENTS

Flow Range5-8 gpm (18.9-30.2 lpm)
Operating Pressure2,200 psi (151.6 bar) maximum

**See Hy-Rail® Vehicle Specification Manual for specific vehicle models and ratings.

Visit us on the web
www.harscotrack.com



An ISO 9001:2000 Registered Company

FACILITY LOCATIONS:

Harsco Track Technologies
Harsco Corporation

2401 Edmund Road, Box 20
Cayce-West Columbia, SC 29171-0020
Tel: (803) 822-9160 • Fax: (803) 822-8107

415 North Main Street
Fairmont, MN 56031-1837
Tel: (507) 235-3361 • Fax: (507) 235-7370

200 South Jackson Road
Ludington, MI 49431
Tel: (231) 843-3431 • Fax: (231) 843-4830

4 Strathwyn Street, P.O. Box 5287 Brendale
Queensland 4500, Australia
Tel: 61 7 3205 6500 • Fax: 61 7 3205 7369

Unit 1, Chewton Street, Eastwood
Nottingham, NG16 3HB United Kingdom
Tel: 01773 539480 • Fax: 01773 539481

The HARSKO TRACK TECHNOLOGIES™ equipment pictured in this brochure is intended to illustrate general appearance and features of this product. It is equipped as specified by a particular customer and may or may not show items that are optional or recommended by Harsco Track Technologies, Harsco Corporation. Specifications, illustrations and descriptive materials herein were accurate as known at the time this publication was approved for printing. Harsco Track Technologies, Harsco Corporation reserves the right to discontinue models or options at any time or change specifications and materials, equipment and design without notice and without incurring obligation. Federal, State or Provincial, and/or local laws and regulations may require additional equipment for the particular use intended for this product. It is the buyer's responsibility to determine the applicability of such laws and regulations to the buyer's intended use for the product, and to arrange for the installation of the required equipment. Other products and companies referred to herein are trademarks or registered trademarks of their respective companies and/or mark holders.

HTT

Harsco Track Technologies

Harsco

Bulletin #HTT 2053
Printed in USA – June, 2008