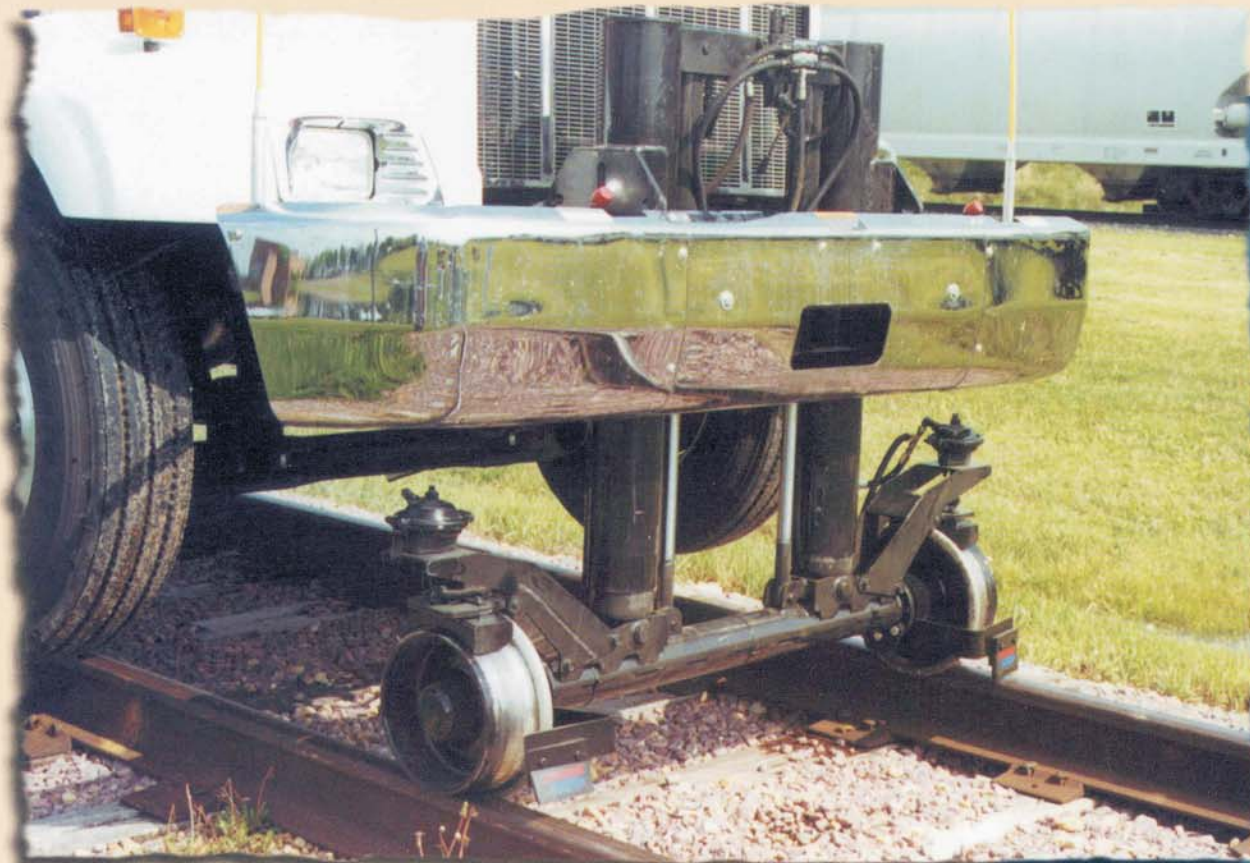


HY-RAIL® Guide Wheel Equipment



The **HR3000 Series V HY-RAIL®** guide wheel attachment is used to adapt medium-duty, chassis-cab trucks, meeting Harsco Track Technologies' recommended vehicle specifications, for highway/railway applications where a vertically-actuating front unit is desired. This unit is ideal for applications where it is necessary to minimize front unit overhang.

HR3000V units are for front end position installation and may be used in conjunction with either Harsco Track's HR3000 Series A or Series B rear position units. Unit attaches to the vehicle's front end with mounting brackets and spacers specific to the vehicle model.

HR3000 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 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

Available in insulated and non-insulated versions. An electric air compressor and a hydraulic power unit are available for installation on vehicles not equipped with air brakes or hydraulic systems.

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Major Features

- Vertical-actuating HR3000 Series V units minimize front unit overhang. Maneuverability and handling are improved.
- Coil spring suspension provides a smooth ride and enhances guide wheel/rail contact.
- Series V unit is attached to the vehicle by bolt-on mounting brackets, enabling adjustment for vehicle load, clearances, and tracking.

HR3000 Series V HY-RAIL® Unit Specifications

COMPATIBLE VEHICLES

Type	Medium-duty chassis-cab trucks with single rear axle
Weight Class:	
GVWR	Up to 35,000-lb. (15,876-kg) max.**
GAWR - Front	Up to 12,000-lb. (5,444-kg) max.**
GAWR - Rear	Up to 23,000-lb. (10,433-kg) max.**

GUIDE WHEEL UNITS

Construction	Fabricated steel unit - welded construction
Attachment to Vehicle	Universal mount unit bolts to vehicle's front end with custom mounting brackets and spacers specific to each vehicle model
Suspension	Enclosed coil springs
Rail Wheels	Austempered ductile iron - precision machined
Tread Diameter	12.50-in. (317.5-mm)
Flange Diameter	14.75-in. (374.7-mm)
Wheel Bearings	Heavy-duty, tapered roller - relubrication by hand pack method
Brakes	Air-actuated, tread-type, w/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 Skids	Bolt-on - standard
Rail Sweeps	Available - Bolt-on - height adjustable - fixed position
Raise/Lower Actuation	Hydraulic - double-acting cylinders - manual control valve located at unit
Bumper	Mounting holes provided for applicator attachment of mounting brackets for standard vehicle bumper

WEIGHT & DIMENSIONS

Unit	850-lbs. (386-kg)
Track Gauge	56.5-in. (1435-mm) - Standard

LOAD CAPACITY

Unit with vehicle at curb weight	13,000-lbs. (5897-kg) / 6,500-lbs. (2948-kg) maximum load per guide wheel
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REQUIRED AUXILIARY EQUIPMENT

Steering Lock	Steering column mounted - manual actuation on steering wheel
Mounting Brackets and Spacers	Specific design for each approved vehicle model
Axle Hooks	Support 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 Range	.5 - 8 gpm (18.9 - 30.2-lpm)
Operating Pressure	1,800-psi (124.1-bar) max.

** See HY-RAIL® Vehicle Specification Manual for specific vehicle models and ratings.

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Bulletin # HTT 2018
Printed in USA January, 2003

