

## HY-RAIL® Guide Wheel Equipment



The **HR3000 Series B 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 rear unit is desired. This unit is ideal for applications where other equipment must also be mounted on the rear of the vehicle.

HR3000B units are for rear position installation and may be used in conjunction with either Harsco Track's Series A or Series V HR3000 front units.

The unit is lowered and raised vertically with a hydraulically-actuated "scissors" type mechanism. A joystick-type control valve provides control of both sides of the unit simultaneously or independent control of each side separately to make placement of the guidewheels in the rail position easier.

Unit bolts directly to the vehicle's frame rails and features coil spring suspension and height-adjustable mounting. Available in insulated and non-insulated versions. Also available are optional air-actuated, tread-type brakes with composition shoes and fold-down rail sweeps. 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

- Vertically-actuating unit can be fitted into applications where other equipment must also be mounted at the rear of the vehicle.
- Joystick control with independent raise/lower for each side of the unit makes placement of the guide wheels "on-rail" easier.
- Unit bolts directly to the vehicle frame rails. Slotted mounting holes enables precise and easy adjustment for vehicle load, clearances, and tracking.

## HR3000 Series B 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 rear chassis rails - Slotted mounting holes enable adjustment of unit mounting for frame height and vehicle load
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	Overcenter locking in rail position - two lock pins on each unit for highway position - lock pins secured by a linch pin
Derail Skids	Bolt-on - standard
Rail Sweeps	Available - Bolt-on - manually actuated
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	986-lbs. (447.2-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 Spacers	Specific design for each approved vehicle model

### HYDRAULIC SYSTEM REQUIREMENTS

Flow Range	.5 - 8 gpm (18.9 - 30.2-lpm)
Operating Pressure	2,000-psi (137.9-bar) max.

\* Note: the vehicle's rear inner dual wheels carry the remaining load capacity. Do not exceed the tire manufacturer's and/or the wheel manufacturer's load rating capacity for the rear inner dual wheels on track

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



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