

## HR4000 Series V

# HY-RAIL® Guide Wheel Equipment



The **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/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.

HR4000V units are for front end position installation and may be used in conjunction with Harsco Track's HR4000 Series A rear position units. Unit attaches to the vehicle's front end with mounting brackets and spacers specific to the vehicle model.

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 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. A hydraulic power unit is available for installation on vehicles not equipped with hydraulic systems.

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## Major Features

- Vertical-actuating HR4000 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.



## HR4000 Series V HY-RAIL® Unit Specifications

### COMPATIBLE VEHICLES

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

### Weight Class:

GVWR ..... Up to 56,000-lb. (25,402-kg) max.\*\*  
 GAWR - Front ..... Up to 16,000-lb. (7,258-kg) max.\*\*  
 GAWR - Rear ..... Up to 40,000-lb. (18,144-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 ..... 16.00-in. (406.4-mm)  
     Flange Diameter ..... 18.09-in. (459.4-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 ..... 1,065-lbs. (483-kg)  
 Track Gauge ..... 56.5-in. (1435-mm) - Standard

### LOAD CAPACITY

Unit with vehicle at curb weight ..... 20,000-lbs. (9072-kg) /10,000-lbs. (4336-kg) maximum load per guide wheel

### 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 ..... 2,200-psi (151.6-bar) max.

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

### FACILITY LOCATIONS:

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