

HY-RAIL® Guide Wheel Equipment

The Harsco Track Technologies' **HR4000 Series B 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 rear unit is desired. This unit is ideal for applications where other equipment must also be mounted on the rear of the vehicle.

The **HR4000 Series B** units are for rear position installations and may be used in conjunction with other Harsco Track Technologies' front units.

The unit is lowered and raised vertically with a hydraulically-actuated "scissors" type mechanism. Dual control valves provide independent control of each side of the unit to make placement of the guide wheels in the rail position easier.

The unit bolts directly to the vehicle's frame rails and features height-adjustable mounting. Insulated and non-insulated versions are available. Also available are optional air-actuated, tread-type brakes with composition shoes and optional fixed 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.

Major Features

- ◆ Vertically-actuating unit can be fitted into applications where other equipment must also be mounted at the rear of the vehicle.
- ◆ Dual control valves provide independent lowering of each side of the unit. This gives the unit "side shift" capabilities resulting in easier alignment of the vehicle with the rails when placing the vehicle "on-rail."
- ◆ Positive safety pin locks for rail and highway position. Three options are available: manual pin, manual pin with cable control, and air actuated pin.
- ◆ Unit bolts directly to the vehicle frame rails. Slotted mounting holes enable precise and easy adjustment for vehicle load, clearances, and tracking.



HTT

Harsco Track Technologies

Harsco

415 North Main Street • Fairmont, MN 56031-1837
Tel: (507) 235-7112 • Fax: (507) 235-7341
www.hascotrack.com

*Contact us today for more information
on HTT's HR4000 Series B1 HY-RAIL®
Guide Wheel Equipment.*

HR4000 Series B1 HY-RAIL® Guide Wheel Equipment Specifications

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

WEIGHT CLASS
GAWR-Rear Up to 40,000 lbs. (18,144 kg) max.

GUIDE WHEEL UNITS

Construction	Fabricated steel unit; welded and bolted construction
Attachment to Vehicle	Universally mounted pilot unit bolts to vehicle's frame rails
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; re-lubrication by manual methods
Brakes	Available – Air-actuated, tread-type, w/single Cobra composition brake shoe on each rail wheel
Safety Locks	Two sliding pin-type safety locks lock unit in both highway and rail positions; P.O. checks and air actuated locks available
Derail Skids	Built-in; standard
Rail Sweeps	Available – Bolt on, height adjustable, fixed position
Raise/Lower Actuation	Hydraulic, double-acting cylinders manual control valve located at unit

WEIGHT & DIMENSIONS

Unit 1,111 lbs. (504 kg) installed
Track Gauge 56.5 in. (1435 mm) – Standard

LOAD CAPACITY

Guide Wheel Unit 40,000 lbs. (18144 kg) max.
Per Guide Wheel 20,000 lbs. (9072 kg) max.

REQUIRED AUXILIARY EQUIPMENT

Steering Lock Steering column mounted; manual actuation on steering wheel
Mounting Brackets & Spacers Designed for each approved vehicle model

HYDRAULIC SYSTEM REQUIREMENTS

Flow Range 5-8 gpm (18.9-30.2 lpm)
Operating Pressure 2,500 psi (172 bar) max.

FACILITY LOCATIONS:

Harsco Track Technologies
Harsco Corporation

2401 Edmund Road, Box 20
Cayce-West Columbia, SC 29171-0020
Tel: (803) 822-9160 • Fax: (803) 822-7471

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

www.harscotrack.com

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