

HY-RAIL® Equipment



Light Duty Application



Medium Duty Application

Heavy Duty Application

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

The Harsco Track Technologies' HY-RAIL® System consists of bolt-on Guide Wheel Attachments which adapt motor vehicles, meeting required specifications, for operation on the highway and on railway track. HY-Rail® attachments are manufactured by HTT at its plant in Fairmont, Minnesota. HY-RAIL® equipment has been in continuous production at this facility for 58 years.

An engineering group dedicated exclusively to road/rail equipment is continually evaluating and making improvements to this product line.

HTT

Harsco Track Technologies

Harsco



Light Duty

The **HR0307 Series A** guide wheel unit is installed on both the front and rear of light duty trucks and SUVs. These units attach with the use of special mounting brackets and spacers. Each guide wheel unit is fully adjustable for clearances and for rail tracking.

The **HR0307 Series A** guide wheel unit is manually actuated by the operator. This eliminates the need for hydraulic and electrical systems. This helps create the lightweight design feature of this guide wheel unit. Also, upfitting times are faster since hydraulic and electrical systems do not have to be installed.

The **HR0307 Series A** guide wheel unit has factory sealed wheel bearings. These bearings provide extended durability and eliminate the need for regular re-packing.

REQUIRED AUXILIARY EQUIPMENT-ALL UNITS

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



Model HR0307 Series A

GVWR5,000 to 11,200 lbs.
(2,273 to 5,090 kg)



The **HR1500B** is a hydraulically actuated HY-RAIL® unit that can be raised and lowered with the use of an electric/hydraulic pump or a PTO driven hydraulic system. The electric/hydraulic pump system is activated by an on/off switch in the cab and push button switches located at each end of the vehicle to raise and lower the HY-RAIL unit.

This unit minimizes the amount of overhang normally associated with HY-RAIL® equipment units on light duty vehicles. The HY-RAIL® guide wheels are now much closer to the vehicle tires. Actuating hydraulically allows the HY-RAIL® unit to be mounted more underneath the vehicle and therefore less visible.

Another feature of the **HR1500B** is the permanently sealed guide wheel bearings. Maintenance and repacking of the wheel bearings are eliminated. These sealed bearings are currently heavily used in the automotive industry. Under normal loading and operating conditions these bearings are expected to have infinite life.

Model HR1500 Series B

GVWR.....up to 11,900 lbs (up to 5,409 kg)



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Model HR1820 Series B3

GVWR – Front..... 7,000 lbs. (3,182 kg)

GVWR – Rear13,500 lbs. (6,136 kg)

Model 1820 Series B3 guide wheel equipment consists of a vertical lift type front unit and an individual wheel arm type rear unit. The front unit features coil spring suspension and the rear unit is disc-spring equipped to provide a smooth ride, enhance on-rail traction of the vehicle's drive wheels, and help maintain essential guide wheel to rail contact.

These units are ideal for applications utilizing vehicles in the medium duty range, and that have a front axle width not compatible to track gauge.

Positive mechanical locks secured by safety pins retain the guide wheels in both the highway and rail positions.

All Harsco Track Technologies HY-RAIL® guide wheel units are manufactured with proven HTT quality methods such as non-destructive evaluation of critical parts using x-ray and/or ultrasonic methods to assure reliable service.



HR3000 Series C2 units are for front-end position installation. The unit attaches to the vehicle's front end with mounting brackets and spacers. HR3000 C2 units minimize front unit overhang and places the guide wheels close to the vehicle axle.



HR3000 Series C2 guide wheel unit installations are fully adjustable for clearances and tracking. Air-actuated, tread-type brakes with composition shoes are standard. Fixed rail sweeps are standard.

Model HR3000 Series C2

GAWR – Front.....Up to 13,000 lbs. (5,907 kg) maximum

Heavy Duty

FACILITY LOCATIONS:

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Model HR4000 Series A

GAWR – RearUp to 40,000 lbs. (18,181 kg) maximum

The **HR4000 Series A** unit is for rear position installation and may be used in conjunction with other Harsco Track Technologies' front units.

The unit is lowered and raised vertically with a hydraulically-actuated "rotational" type mechanism.

The **HR4000 Series A** features a self-centering, side shift mechanism that enables the operator to place the vehicle "on-rail" even with the rear tires up to three (3) inches out of position.



Model HR4500 Series A

GAWR – RearUp to 50,000 lbs. (22,727 kg) maximum

The **HR4500 Series A** unit is for rear position installation and may be used in conjunction with other Harsco Track Technologies' front units.

This unit features a self-centering, true side-shift mechanism that enables the operator to place a vehicle "on-rail" even when the rear of the vehicle is out of position. The unit is also equipped with the proven Harsco Track Technologies adjustable coil spring suspension for a smooth ride under various load conditions and the security of continuous guide wheel contact with the rail through road crossings, turnouts and crossover.

Mounting brackets are specifically designed for each approved vehicle model to make installation easier and assure mounting integrity. Available are optional air-actuated, tread-type brakes with composition shoes and optional fixed rail sweeps.

Lever-released, positive mechanical locks hold the guide wheels in the highway and rail positions.



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