

HR1500 Series B

HY-RAIL® Guide Wheel Equipment



The Harsco Track Technologies **HR1500 Series B HY-RAIL®** guide wheel equipment is used to adapt light duty trucks and utility vehicles, meeting Harsco Track Technologies' recommended vehicle specifications, for highway and railway travel.

The **HR1500 Series B** 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.

The **HR1500 Series B** is designed for heavy duty vehicle applications. This feature creates a very durable and reliable HY-RAIL® unit.

Another feature of the **HR1500 Series B** 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.

The suspension is designed using a rubber elastomer. It is protected and concealed inside a steel tubular structure.

The **HR1500 Series B** can be equipped with either rubber tread wheels or steel wheels. Rubber tread wheels provide the same smooth quiet ride on rail as experienced with previous HY-RAIL® units from HTT.

Steel wheels are completely machined to improve their dynamic balance. The tread and flange of the steel wheel is machined to a standard AAR profile. This profile improves the tracking performance when on the rail.

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

HR1500 Series B HY-RAIL® Guide Wheel Equipment Specifications

VEHICLE TYPE	Standard and downsized light-duty trucks and utility vehicles with single rear wheels
WEIGHT CLASS	
GVWR	up to 11,900-lb (up to 5,080-kg)

GENERAL SPECIFICATIONS

Construction	Fabricated steel unit; welded and bolted construction
Attachment to Vehicle	Front and rear units bolts to vehicle frame with custom mounting brackets specific to each approved vehicle model. Units are fitted with incrementally spaced mounting holes to allow full adjustment of unit mounting for vehicles frame height, base curb weight, and on-rail tracking.
Suspension	Four wheel independent spring suspension
Rail Wheels	Rubber tread or AAR profile steel; precision machined
Tread Diameter	10-in. (250-mm)
Flange Diameter	12.25-in. (310-mm)
Wheel Spindles & Bearings	Unitized bolt-on unit – permanently sealed and lubricated (maintenance free)
Safety Locks	Positive self-engaging mechanical lock – locked in rail and highway positions
Derail Skids	Built-in; standard on front and rear units
Rail Sweeps	Bolt-on; standard on front, optional on rear
Raise/Lower Actuation	Hydraulic; double acting cylinders; electric control switch located by each unit
Bumpers	Front (w/sight rods)

WEIGHTS & DIMENSIONS

Weight (does not include mounting brackets, options, or hardware)	
Front Unit	325-lb. (147-kg)
Rear Unit	320-lb. (145-kg)
Track Gauge	56.5-in. (1435-mm) – Standard

LOAD CAPACITY

Front Unit	3,000 lb. (1360-kg) / 1,500-lbs. (680-kg) max. load per wheel
Rear Unit	3,000 lb. (1360-kg) / 1,500-lbs. (680-kg) max. load per wheel

REQUIRED AUXILIARY EQUIPMENT

Steering Lock	Steering column mounted – manual actuation on steering wheel
Wheel Modification Group	Specific design for each approved vehicle model
Mounting Brackets	Specific design for each approved vehicle model

HYDRAULIC SYSTEM REQUIREMENTS

Flow Range	1-gpm (3.8-lpm)
Operating Pressure	Specific to HY-RAIL® model – contact HTT

Visit us on the web
www.harscotrack.com



An ISO 9001:2000 Registered Company

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