

GWL-2300 Wheel-Lok™ Vehicle Restraint

Simple operation in a cost-effective, versatile
Vehicle Restraint for widest variety of trailers.



GWL-2300 Wheel-Lok™



GWL-2300 Wheel-Lok™ in multiple positions



GWL-2300 Wheel-Lok™ engaged with trailer

The Original, Always Improving Trailer Restraint

Rite-Hite® created the restraint industry in 1980 and is trusted by more customers worldwide than any other brand. The GWL-2300 Wheel-Lok™ services a wide variety of trailers including lift-gates, intermodal container chassis, and standard over the road trailers with or without rear impact guards (RIGs).

Flexible Automatic Positioning on Widest Variety of Trailers

High-strength steel locking arm adjusts to widest variety of trailers for tight engagement. No external power required for position as energy of the trailer pivots barrier locking arm into stable position.

Opti-Vu™ An intuitive digital tool for data-driven decision making

More than just sensors and data, the Opti-Vu® IIoT platform monitors equipment, captures events, synchronizes vital information and facilitates data-driven behavioral and process change. *(subscription & additional hardware required)*

Consistent On-Center Trailer Positioning

Two wheel guides ensure on-center trailer positioning to protect building wall and enhance dock seal or shelter effectiveness.

Low Maintenance

Simple, reliable electro-mechanical design allows for minimal maintenance with self-lubricated rollers, bushings & few moving parts. The easily-installed surface mounted GWL-2300 Wheel-Lok™ optimally performs in all-weather conditions.

Rite-Vu™ Hazard Recognition and Communication System

Interior/exterior LED Rite-Vu™ light communication system, includes Approach-Vu™, Pedestrian-Vu™, Corner-Vu™ and Leveler-Vu™. Each component can be ordered with the Lok® or added at any time to optimize loading dock safety.

Security System Interface

Dok-Lok® vehicle restraints help physically enhance security when the control package is linked with an active building security system. If an engaged restraint is tampered with, the building security system is notified and facility protocol is followed.

Specifications

General Description

The GWL-2300 Global Wheel-Lok™ is a surface mounted powered vehicle restraint designed to secure a wide variety of trailer types, with or without a rear impact guard (RIG) to the dock. The GWL-2300 engages the driver side rear tire (or left side facing for some International) with an integral 20" high steel barrier and has the ability to resist pullout forces in excess of 32,000 lbs (14,500 kg).

Operation

1. As the truck approaches the loading dock, it positions between the dual wheel guides. **2.** It then contacts the restraint's trigger device which begins moving toward the dock using the energy of the trailer enabling the locking arm to size the tire and rise to full height on the rearmost tire. **3.** When positioned, the attendant pushes the lock button on the interior control pane, activating the locking assembly. Green communication lights inside and red lights outside signal that the trailer is properly engaged. **4.** To release the restraint, the dock attendant presses the unlock button. **5.** After the locking assembly disengages, communication lights change to indicate the truck is disengaged and can move forward. Engagement range is 43" to 158" (1090 mm - 4010 mm) on the rearmost tire from the face of the dock bumpers. **6.** Unit allows for manual release in the event of a power failure.

Construction

The GWL-2300 Global Wheel-Lok™ vehicle restraint is constructed of structural and formed steel and surface mounted to the concrete driveway approach using 32 self-expanding concrete anchors. All structural components are metalized or painted for corrosion resistance. The drive system is a hydraulic cylinder powered by hydraulic power unit. Biodegradable hydraulic fluid or MIL-5606 Oil-Based Fluid options available. The dual wheel guides are constructed of steel and painted safety yellow.

Leveler Description

- Edge of Dock Rite-Hite® or Competitor No Leveler
 Pit Style Leveler (Hinged Lip) Vertical Storing Leveler
 Truck Actuated (Fixed Lip) Other

Electrical/Controls

All controls are mounted in an interlock capable, NEMA 4X, gasketed control panel and enclosure assembly. Electrical components and wiring are UL listed or recognized. GWL-2300 restraints require a power source of: 110-120/1/60 or 208-240/1/50 (Int'l).

Ship Controls with Restraint: Yes Existing DC Ordered Special CB Ordered CB Shipping Separately
 Remote Power Unit **Keyed Power On/Off Switch**

Warranty

- Base Controls with 1 yr parts / 1 yr labor warranty*
 Opti-Vu® Extended Warranty included 2yr parts / 1yr labor warranty, coded horn override, self-diagnostics and security system interface* (Warranties from date of shipment are subject to standard limitations and liability*. Additional subscription required for **Opti-Vu®** data streaming platform. For extended warranty options, please consult local Rite-Hite® distributor.)

Rite-Vu™ Hazard Recognition and Control

- Leveler-Vu™** : Confirms light communication system status to dock personnel while exiting the trailer.
 Vertical Leveler Leveler-Vu™
 Corner-Vu™ : Provides clear immediate line-of-sight light communication system status to dock personnel before entering the trailer.
 Pedestrian-Vu™ : Detects and signals when there is activity inside of the trailer. An audible alarm sounds when an unsecured trailer is entered.
 Drive-Through RHV Pedestrian-Vu™
Approach-Vu™ : Detects a backing trailer on the drive approach and presents a clear visual and audible warning to pedestrians.
 Yes (Shelter Proj. > 36") Yes (Shelter Proj. <= 36")

Interlock Options

Equipment Stored to Unlock Restraint:

- ITL (LVLR STRD/EOD) switch by Rite-Hite®
 ITL (LVLR STRD/PIT) switch by Rite-Hite®
 ITL (LVLR STRD/RHJ5/HJ22/32) switch by RH®
 ITL (OHD STRD) switch by Rite-Hite®
 ITL (LVLR STRD/HDVHL) switch by Rite-Hite®
 ITL (OHD OPRTR/UNLK) switch by others
 ITL (LVLR STRD/RHV41) switch by RH®/New Leveler
 ITL (LVLR STRD/RHV4) Field/Existing Leveler
 ITL (OHD STRD PHOTOEYE) switch by RH

Inside Green Light to Operate Equipment:

- ITL (APB or Comp. Leveler) ITL (EOD) ITL (OHD)
 ITL (H1-3/HV) ITL (RHV40/HDVHL)

Dok-Guardian™ Stored to Operate Restraint:

- ITL (Dok-Guardian™/Actuator) ITL (Dok-Guardian™)

Engage Dok-Lok® (Field Installed):

- ITL (Mechanical Leveler) ITC (Photoeye)
 ITL (Powered Leveler)

Liftgate Stored to Disengage

» **Outside Truck Driver Communication System:** Flashing red or green lights and signs indicate when it is safe to back in or pull out. Signs/decals languages:

- French Canadian English (Standard)
 Portuguese Spanish

» Inside Dock Attendant Communication System:

Flashing red or green lights indicate when it is safe to perform loading/unloading operations.

» **Audible Alarm:** Inside alarm provides a positive signal and red light when a tire has not been properly engaged.

» **Audible Alarm Override:** Push-button controls allow personnel to override the audible alarm, causing inside lights to flash red and green in alternating pattern.

Keyed Horn Override (NEMA 4)

Options

- Additional Wheel Guide Yard Jockeys Used
 International End User Engagement Range Exceeded
Dock Height: _____ (Inches) Lip Length: _____ (Inches)
Bumper Proj.: _____ (Inches) Dock/Door #: _____

Wall Position to Dock Face:

- Flush No Wall Protruding Set Back
Wall Setback: _____ (Inches)
Subframe Setback: _____ (Inches)

Sub-Frame Position:

- Flush Not Applicable Protruding Set Back
Drive Approach Material: Concrete Other
 Trench Drain <12" from Bumper Face Column Liftgate
 Location Obstruction Obstructions Below 21.5"
 Clearance is less than 9"

Client Info

Company Name _____ Date _____



GWL2300
www.ritehite.com

8900 North Arbon Drive
Milwaukee, WI 53223, USA

P 414-355-2600 (800-456-0600)
F 414-355-9248

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Manufactured by Rite-Hite® Products Corporation

*Opti-Vu® only available in the United States