

MWL-1300 Manual Wheel-Lok™ Vehicle Restraint

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

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 MWL-1300 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 Positioning on Widest Variety of Trailers

High-strength steel locking arm adjusts to widest variety of trailers. Ergonomic design can be conveniently positioned with minimal force in front of rearmost or front, rear tire for tight reliable engagement.

Consistent On-Center Trailer Positioning

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

Low Maintenance

Simple, reliable mechanical design allows for minimal maintenance with self-lubricated rollers, bushings and few moving parts. The easily-installed surface mounted MWL-1300 Wheel-Lok™ optimally performs in all-weather conditions.



Restrain a variety of trailers, including those with hydraulic lift-gates.

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.



MWL-1300 Wheel-Lok™ engaged

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.

Opti-Vu® BY RITE-HITE®

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)*



Easily positioned

Specifications

General Description

The MWL-1300 Wheel-Lok™ is a surface mounted manual vehicle restraint designed to secure a wide variety of trailer types, with or without a rear impact guard (RIG) to the dock. The MWL-1300 engages the driver side rear tire (or left side facing for some International) with an integral 19" 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 wheel guide and the restraint. **2.** When the trailer is in position, an operator moves the barrier from the stored position and places the barrier in front of the trailer's rear tire. As the barrier leaves the stored position, the outside light automatically turns red alerting the truck driver not to pull away. **3.** When the barrier is properly positioned in front of the tire, the Security Latch (if equipped) automatically engages to ensure the barrier cannot be removed. The inside lights change to green, indicating that it is safe to enter the trailer. **4.** When loading/unloading is complete, the dock attendant presses the "Loading Operation Complete" button on the control panel to release the Security Latch (if equipped) and allow personnel to remove the barrier. The inside lights change to red, alerting personnel that it is unsafe to enter the trailer. The outside lights flash simultaneous red and green, alerting personnel outside that it is safe to remove the barrier. **5.** Once the barrier is returned to the stored position, the outside light will automatically change to green, alerting the truck driver that it is safe to depart.

Construction

The MWL-1300 Wheel-Lok™ vehicle restraint is constructed of structural and formed steel and is surface mounted to the concrete drive approach using 17 self-expanding concrete anchors. All structural components are electro-plated or painted for all-weather corrosion resistance. The wheel guide is constructed of steel and painted 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 & wiring are UL listed or recognized. 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
- Keyed Power On/Off Switch**

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")

Warranty

- Standard Warranty included 1yr parts / 1yr 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*. Add'l subscription required for **Opti-Vu®** data streaming platform. For extended warranty options, please consult local Rite-Hite® distributor.)

Interlock Options

Equipment Stored to Unlock Restraint:

- ITL (LVLR STRD/RHE) switch by Rite-Hite®
- ITL (LVLR STRD/PIT) switch by Rite-Hite®
- ITL (LVLR STRD/RHJ5/HJ22/HJ32) 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 (OHD STRD PHOTOEYE) switch by Rite-Hite®
- ITL (LVLR STRD/RHV41) switch by Rite-Hite®
- ITL (LVLR STRD/RHV4) Field/Existing Leveler

Inside Green Light to Operate Equipment:

- ITL (APB or Comp. Leveler) ITL (EOD) ITL (OHD)
- ITL (RHH/RHJ/H1-3/HV) ITL (RHV4/HVHL)

Dok-Guardian™ Stored to Operate Restraint

▶ **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

- Carriage Positioning Handle Snow/Slush Option
- Wheel Guide (Opposite Side): Long Short Less
- Additional Wheel Guide (Same Guide): Long Short
- Additional Wheel Guide (Adjacent Dock): Long Short
- International End User Yard Jockeys Used
- Dock Height: _____ (Inches) Lip Length: _____ (Inches)
- Bumper Proj.: _____ (Inches) Dock/Door #s: _____

Wall Position to Dock Face:

- Flush Open Dock Protruding Set Back

Sub-Frame Position:

- Flush Not Applicable Protruding Set Back
- Sub-Frame Setback: ____ (Inches) Wall Setback: ____
- Drive Approach Material: Concrete Other: _____
- Trench Drain <16" from Bumper Face
- Door Centerline > 11'6" <= 11'6"
- Location Obstructions Obstructions Below 30"
- Engagement Range Exceeded

Client Info

Company Name _____

Date _____



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*Opti-Vu® only available in the United States