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GWL 2300 Vehicle Restraint

Global Wheel Lock Vehicle Restraint System

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GWL RESTRAINTS OVERVIEW

Take the simple route to securing all kinds of trailers.

The Global Wheel-Lok vehicle restraint offers the most versatile design for companies that serve a wide variety of trailers: liftgates, drop floors, low hanging fenders, with or without rear impact guards (RIGs).

It's a rugged and proven restraint system that offers the most simple and effective way to help prevent early departure and trailer creep accidents at your docks.



VERSATILITY

Safely restrains almost all trailer types including trailers without adequate rear impact guards.

MAXIMIZE UPTIME

Simple, electro-mechanical design employs few moving parts for maximum reliability.

POSITIONED AUTOMATICALLY

High-strength steel locking arm adjusts to different tire sizes for tight, reliable engagement. No external power required for positioning.

CONSISTENT, ON-CENTER TRAILER POSITIONING

Wheel guides properly position trailer, protecting the building and ensuring dock seal effectiveness.

EXCLUSIVE, FULL-TIME COMMUNICATION SYSTEM

Interior/exterior LED light communication system.

MINIMAL MAINTENANCE

Easy-to-access lubrication points.

SECURITY SYSTEM INTERFACE

Wheel-Lok vehicle restraints can physically enhance security at a facility when 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 Global Wheel-Lok™ vehicle restraint is a surface mounted powered Wheel-Lok designed to secure virtually any trailer type, with or without a rear impact guard (RIG) to the dock. It engages the driver's side rear tire with an integral 20" high steel barrier. Ability to resist pullout forces in excess of 32,000 lbs (14,500 kg).



OPERATION

As the truck approaches the loading dock, it positions between the dual wheel guides. It then contacts the restraint's trigger device which begins moving toward the dock using the energy of the trailer. This enables the locking arm to size the tire and rise to its full height on the rearmost tire. When the trailer is in position, the attendant pushes the lock button on the control panel inside the building, which activates the locking assembly.

Green communication lights inside and red lights outside signal that the trailer is engaged. To release the restraint, the dock attendant presses the unlock button. After the locking assembly is disengaged, communication lights change to indicate the truck is no longer engaged and is free to move forward. Engagement range is 1140 mm - 4600 mm on the rearmost tire from the face of the dock bumpers. Unit allows for manual release in the event of a power failure.

CONSTRUCTION

The GWL-2300 vehicle restraint is constructed of structural and formed steel. All structural components are metalized or painted for corrosion resistance. The drive system is a hydraulic cylinder powered by a 120-volt hydraulic power unit. The dual wheel guides are constructed of steel and painted safety yellow. Biodegradable hydraulic fluid.

INSTALLATION

The GWL-2300 vehicle restraint is surface mounted to the concrete driveway approach. The frame assembly and wheel guides are mounted using 32 self-expanding concrete anchors.



ELECTRICAL

All operator controls are mounted in an interlock capable, NEMA 4X, gasketed control panel and enclosure assembly. Electrical components and wiring are UL listed or recognized. Power requirements are 120 volt, single phase, 60 hertz.

SAFETY FEATURES

Automatic Tire Sizing: The system automatically sizes the tire ranging from 30"-44" (700 mm-1200 mm) in diameter to help provide maximum restraint.

COMMUNICATION SYSTEM

- Outside Communication System: Full-time flashing red or green lights with signs instruct the truck driver when it is safe to back in or pull out. Low-profile light box design helps avoid damage from backing trailers.
- Inside Communication System: Full-time flashing red or green lights with signs help the dock attendant know when it is safe to perform loading/unloading operations.
- The inside lights are in the opposing mode to the outside light monitor.
- Audible Alarm: Inside alarm helps warn the dock attendant when a normal vehicle has not been properly engaged. Provides a positive signal in addition to the red light.
- Audible Alarm Override: A push-button control allows personnel to override the audible alarm. When the audible alarm is in override, the inside red and green lights continue to flash simultaneously.
- LED lights standard: LED lights provide long life. Colored bulbs help prevent miscommunication in the event a lens cover is missing or broken.

WARRANTY

One-year parts and labor from date of shipment. All warranties are subject to standard limitations on liability.



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