RHR-1100 Dok-Lok® Rotating Hook Restraint

Long-term protection for your investment in loading dock safety.

The Original Dok-Lok Vehicle Restraint

Rite-Hite® invented the vehicle restraint industry in 1980 with its simple but proven design. Today, Dok-Loks continue to drive operational excellence worldwide as part of a total, connected loading dock safety solution.

Enhanced, Versatile Hook Design

Removable hook mask is designed for ease of Shadow Hook® upgrade which provides additional wrap for widest variety of RIG-based trailers, including historic ICC bars, 4x4 and pentagonal RIGs while also creating a 5-inch vertical barrier for obstructed RIGs.

Constant Communication Inside and Out

Rite-Vu™ Hazard Recognition and Control offers audible and visual alarms to enhance safety and productivity, both inside and outside the loading dock.

Product Features

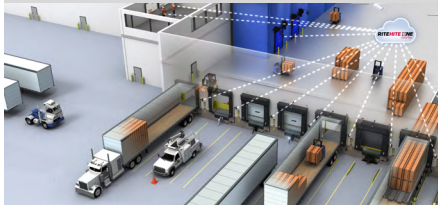
- Dual clad track minimizes risk of downtime due to track damage and/or replacement with track 50% stronger than others on market.
- Hardened dual-articulating nose extension captures wider variety of trailers while minimizing risk of trailers “dead heading” into restraint.
- Black military grade corrosion resistant finish helps maintain aesthetics while reducing risk of rust for longer lasting unit.
- Up to 5-year parts and 3-year labor Rite-Hite Extended Warranty for lower total cost of ownership.
- Dok-Lok® vehicle restraint can interlock into safe sequence of operations to help protect people, products and equipment by reducing human error and equipment faults.
- Can connect to Rite-Hite ONE Digital Platform, providing real-time visibility and data to empower maintenance decisions and help mitigate safety incidents.

Interlock-capable Rite-Hite ONE enabled controls

Exclusive third generation hook with pentagonal RIG

When upgraded with Shadow Hook in the field, restraint provides additional wrap for obstructed RIGs

Optional features for advanced safety and smart communication



Top: Rite-Vu™ Hazard Recognition and Control
Bottom: Connect to Rite-Hite ONE for full visibility of your loading dock safety, productivity and uptime

General Description

The RHR-1100 secures semi trailers to a loading dock by engaging the rear impact guard (RIG) with an exclusive third-generation machined hook. Engagement range extends from 9" to 30" above the ground, with the option for a 9" or 12" carriage. Standard on 9" carriages, a dual-articulating nose extension ensures the widest range of coverage when servicing RIGs lower than 22". A spring-loaded, structural steel housing automatically positions the unit when contacted by a backing truck. The hook mechanism is operated from a control panel mounted inside the building. RHR-1100 is certified to meet and exceed ANSI MH30.3 performance testing standards. Completed dock survey for each dock position required to help ensure proper application.

Operation

1. As the trailer backs into position, the RIG contacts the spring-loaded steel housing which rides down in a dual clad track, allowing the RIG to move over the top of the housing. **2.** The dock attendant pushes the lock button on an interior control panel, activating the hook, securing the trailer to the dock with a holding force in excess of 32,000 lbs./14,500 kg. (In the event a trailer is missing, or has a damaged RIG, the Dok-Lok restraint will communicate a fault where an audible alarm indicates that the trailer has not been properly secured. The operator may override the fault condition and secure the trailer by other means. At all times, the light communication system automatically adjusts to the proper operational mode.) **3.** The restraint maintains constant contact with the RIG and adjusts automatically with trailer motion to ensure proper hooking at all times during (un)loading operations. **4.** If there is an obstruction above the RIG, the Shadow Hook upgrade kit adds an additional layer of safety. **5.** If the hook is challenged while in operation, auto-refire technology helps to restore a safe, secure engagement. **6.** When servicing is completed, the dock attendant pushes the unlock button at the control panel. The hook stores and trailer can safely depart.auto-refire technology helps to restore a safe, secure engagement.

Construction

The enclosed, 5/16" (8mm) welded steel is designed and installed with (15) 5/8" wedge style anchor bolts and 22" of weld to front curb angle to receive the impact of trailers backing into position. Full complement needle bearing carriage rollers and dual clad minimize damage from heavy loads and premature pullout attempts (Mounting force in excess of 100,000 lbs.). The off-ground mounted housing helps protect all components from damage by weather, dirt and debris and has a black military grade corrosion resistant finish. A 1/4 HP 1P66 motor provides dust- and water-infiltration protection. The third-generation machined steel hook with zinc dichromate allows for ease of upgrade to a spring-loaded, latch-free Shadow Hook cover that provides wrap for the widest variety of RIG-based trailers, including historic ICC bars, 4x4 and pentagonal RIGs while also creating a 5-inch vertical barrier for obstructed RIGs.

Electrical/Controls

Electrical and controls mounted in an interlock-capable, NEMA 4X, gasketed control panel and enclosure assembly. Hook mechanism, electric motor and switches are enclosed in structural steel housing. Electrical components and wiring are UL listed or recognized. RHR-1100 restraints require a power source of: ☐ 110-120/1/60 or ☐ 208-230/1/50.

- **Outside Truck Driver Communication System:** Flashing red or green lights and signs indicate when it is safe to back in or pull out.
- **Inside Dock Attendant Communication System:** Flashing red or green lights indicate when it is safe to perform (un)loading operations. Interior truck driver indicator light mirrors exterior light status to support boots off the ground and proactively indicate burnt-out bulbs.
- **Audible Alarm:** Inside alarm provides positive signal and red light when a RIG has not been properly engaged.
- **Security System Interface:** If engaged restraint is tampered with, the building security is notified and facility protocol is followed.
- **Self Diagnostics:** Helps troubleshoot and test mechanical inputs and outputs of Dok-Lok.
- **Audible Alarm Override:** Coded horn override allows personnel to override the audible alarm, causing inside lights to flash red and green in alternating pattern.

Warranty/Options

Backed by Rite-Hite's 12-Month Limited Money-Back Guarantee of Customer Satisfaction.
☐ Standard Warranty includes 3-year parts / 1-year labor warranty ☐ Rite-Hite Extended Warranty includes 5-year parts / 3-year labor warranty and smart, connected capabilities.

Rite-Vu™ Hazard Recognition and Control

Corner-Vu™ : Provides clear, immediate line-of-sight light communication system status to dock personnel before entering the trailer.

Leveler-Vu™ : Confirms light communication system status to dock personnel while exiting 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.

Approach-Vu® : Detects a backing trailer on the drive approach and presents a clear visual and audible warning to pedestrians.

RITEHITE®
ALWAYS LOOKING AHEAD

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