

SHR-5100 Shadow Hook® Dok-Lok® Vehicle Restraint

Maximize safety and minimize downtime in the most demanding, diverse environments.

The Original Dok-Lok 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.

Safely Captures Widest Variety of RIG-Based Trailers

Enhance loading dock safety, security and productivity. Shadow Hook captures the widest variety of RIG-based trailers, including intermodal containers, obstructions and pentagonal RIGs.

Reinforced, High-Pressure Failure Points

Heavy-duty bearings and an enhanced dual-clad track reinforce high-pressure points to reduce costly downtime and unplanned maintenance, especially in event of early departure.

Product Features

- » IP-68 flood-protected chainless motor with fewer moving parts reduces downtime from most common service issues.
- » Black military grade corrosion resistant finish maintains aesthetics while reducing the risk of rust for a longer-lasting unit.
- » Industry-leading 7-year parts and 5-year labor Rite-Hite Extended Warranty for total peace of mind and lowest 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 the 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

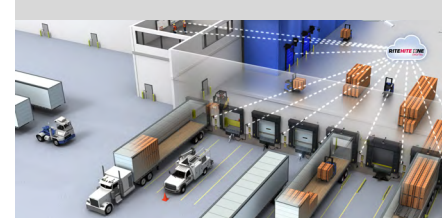


Shadow Hook with obstructed RIG



Shadow Hook with pentagonal RIG

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 SHR-5100 secures semi trailers to a loading dock by engaging the rear impact guard (RIG) with an exclusive Shadow 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. SHR-5100 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 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.

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, dual clad track and needle hook shaft bearings 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 1P68 chainless motor provides industry-leading dust- and water-infiltration protection. The third-generation machined steel hook with zinc dichromate finish comes standard with 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. SHR-5100 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

Backed by Rite-Hite's 12-Month Limited Money-Back Guarantee of Customer Satisfaction.

Standard Warranty provides 5-year parts / 3-year labor warranty. Rite-Hite Extended Warranty includes 7-year parts / 5-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.



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