

SHR-5000 Dok-Lok[®] Vehicle Restraint

Hazard Recognition and Control at the highest level.



Offering the highest level of protection, the Shadow Hook's unique design helps secure obstructed rear impact guards (RIGs).

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 SHR Series Dok-Lok[®] offers the most advanced rear impact guard (RIG) and obstructed RIG technology available.

Rotating Hooks Help Reduce Trailer Separation Accidents

Designed for the RIGs of today, the SHR's unique rotating hook helps address early departure, trailer creep and dock walk, as well as trailer tip-over from landing gear collapse or trailer up-ending.

Enhanced Hook Design

Innovative third-generation hook offers more wrap than other designs and helps to maintain engagement in below-dock endload situations. Shadow hook adds an additional layer of safety, securing trailers with obstructed RIGs.

Rite-Vu[™] Hazard Recognition and Communication System

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



Rotating smooth-sided hook allows for an easy future upgrade to the Shadow Hook option.

Engineered to Withstand Loading Dock Environment

Hardened steel carriage is designed for impact, helps resist damage from backing trailers and stores above ground away from snow, ice, debris and standing water. IP66 rated motor helps prevent dust and water infiltration. Military grade corrosion resistant finish provides all-weather performance.

Reliable Performance

Dual clad track provides 50% more track strength to help minimize damage for heavy loading environments or aggressive pull-out attempts. Standard on all 9" carriages, the dual articulating nose extension ensures widest range of coverage and helps to minimize damage to the restraint when servicing lower RIGs.

Industry Leading Warranty

Backed by Rite-Hite's 12-Month Money-Back Guarantee of Customer Satisfaction, standard 2 year parts/1 year labor warranty can be extended to industry-leading 5 year parts/labor warranty.

Smart, Connected Capabilities

Rite-Hite provides Smart, Connected capabilities as part of the Rite-Hite Extended Warranty. Facilities gain visibility into their Dok-Lok[®] vehicle restraint's productivity and maintenance, helping to increase safety at an Enterprise scale through the Rite-Hite Digital Platform.



Image above shown with Shadow Hook[®] and Approach Vu[™].

Specifications

General Description

The SHR-5000 secures semi-trailers to a loading dock by engaging the rear impact guard (RIG) with a Rite-Hite® third generation rotating hook. Engagement range extends from 9" to 30" above the ground, with the option for a 9" or 12" carriage. 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.

Operation

1. As the trailer backs into position, the RIG contacts the spring-loaded steel housing which rides down in a track, allowing the RIG to move over the top of the housing **2.** The dock attendant pushes the lock button, 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 loading/unloading operations. **4.** If there is an obstruction above the rear impact guard, the Shadow Hook (if present) 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.

Construction

The enclosed, welded steel housing is constructed of 5/16" (8 mm) steel and is designed to receive impact of trailers backing into position. The housing protects all components from damage by weather, dirt and debris. A 1/4 HP IP66 rated motor, with flood seal available, provides dust and water infiltration protection. The SHR-5000 has a military grade corrosion resistant finish. The rotating hook has a yellow dichromate finish.

Shadow Hook® Option

Installation

The Dok-Lok® vehicle restraint is welded to a steel plate that is embedded in the dock face or secured by 15 anchor bolts plus 22" (559 mm) of weld to the pit curb angle to provide 100,000 lbs of mounting force. Modification to the dock leveler is not required.

Electrical/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-5000 restraints require a power source of: 110-120/1/60 or 208-230/1/50.

Extra length motor harness: 10' 15' 20'

Ship Controls with Restraint: Yes Dok-Commander®
 Ordered Special CB Ordered CB Shipping Separately
 Existing Controls (Dok-Lok Style Light Comm. System)
 Keyed Power On/Off Switch (NEMA 4)

Warranty/Options

Standard Warranty includes 2 year parts / 1 year labor warranty Rite-Hite Extended Warranty includes 5 year parts / 2 year labor warranty and smart, connected capabilities.

Rite-Vu™ Hazard Recognition and Control

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")

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™

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.

Vertical Leveler Leveler-Vu™

Interlock Options

Inside Green Light to Operate Equipment:

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

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 (LVLR STRD PHOTOEYE) switch by Rite-Hite®
 ITL (LVLR STRD/RHV41) switch by RH®/New Leveler
 ITL (LVLR STRD/RHV4) Field/Existing Leveler

Dok-Guardian™ Stored to Operate Restraint Engage Dok-Lok®:

ITL (Mechanical Leveler) ITL (Photoeye)
 ITL (Powered Leveler)

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

Keyed Horn (NEMA 4)

Application Guidelines

All Dok-Lok® orders must include field application survey. Dok-Loks mounted directly to the dock face require a minimum 6" solid concrete wall. Consult Rite-Hite® Applications for additional mounting options.



R23SHRSS0314AMEH

Milwaukee, Wisconsin, USA

www.ritehite.com

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

F 414-355-9248

Please note: Unless specifically noted on quotation, all electrical, including hook-up, is the responsibility of others. Rite-Hite®, Dok-Lok®, Shadow Hook®, Dok-Guardian™, Rite-Vu™, Approach-Vu™, Pedestrian-Vu™, Corner-Vu™, Leveler-Vu™ and Lok-Vu™ are trademarks of Rite-Hite Holding Corporation. Rite-Hite products are covered by one or more U.S. patents with other U.S. and foreign patents pending. The information herein is provided as a general reference only regarding the use of the applicable products. The specifications stated here are subject to change. Manufactured by Rite-Hite® Products Corporation