

STR-4100

DOK-LOK® VEHICLE RESTRAINT

The original Dok-Lok

More installations worldwide than any other restraint. Backed by Rite-Hite for over 25 years.

Smooth transition

Hydraulic cylinders help stabilize the trailer to prevent trailer drop. Ensures smooth transition between loading dock and trailer. Reduces jolts to forklift operators, minimizes product damage and reduces repairs on dock levelers, seals, shelters, bumpers and forklifts.

Unique design helps prevent all trailer separations

Rotating hook design can help prevent aggressive early departure, trailer creep and dock walk, as well as trailer tipover from landing gear collapse or trailer up-ending.

Proven durability for long life

Stores above ground away from snow, ice, debris and standing water to ensure reliable communication signals. Resists damage by backing trailers. Zinc-plated for all-weather performance.

Simple design, low maintenance

Self-lubricated rollers reduce maintenance.



A NEW CATEGORY OF VEHICLE RESTRAINT PROVIDES A SMOOTH TRANSITION.

The STR-4100 reduces many of the problems associated with unexpected trailer separations, air-ride suspensions, detached trailers, and vertical and horizontal trailer movement.

So it helps you reduce injuries, increase productivity, minimize equipment damage and save money – across your loading docks. And, when used with a Rite-Hite smooth transition dock leveler, the STR-4100 ensures the ultimate in smooth transition and performance.

RITE-HITE®



Optional Rite-Vu™ Light Communication System enhances Dok-Lok visual communication and helps reduce forklift-pedestrian collisions with three individual products: Pedestrian-Vu, Corner-Vu and Leveler-Vu.

General description:

The STR-4100 Dok-Lok® Vehicle Restraint is designed to secure a semi-trailer to a loading dock by engaging the trailer's rear impact guard (RIG) with a large rotating hook. In addition, the restraint supports the trailer, reducing the vertical motion of the trailer. A spring loaded, structural steel housing automatically positions the unit when contacted by a backing truck. The hook mechanism and support function are controlled from a control panel mounted inside the building.

Operation:

As the trailer backs into position, the RIG contacts the spring loaded structural steel housing. The housing rides down in its track, allowing the RIG to move over the top of the housing. The dock attendant pushes the lock button, which activates the hook and support cylinders to secure the trailer to the dock. The hook provides a holding force in excess of 32,000 lbs (14,500 kg). The STR-4100 maintains constant contact with the RIG and supports the rear of the trailer to help prevent vertical trailer movement during loading/unloading operations. After servicing is completed, the dock attendant pushes the unlock button at the control panel. In the event a trailer is missing, or has a damaged RIG, the Dok-Lok restraint will communicate a fault condition. An audible alarm alerts the operator that the trailer has not been properly secured by the Dok-Lok restraint. At this time, 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.

Construction:

The enclosed, welded structural steel housing is constructed of 5/16" (8 mm) and 1/4" (6 mm) steel and is designed to receive the impact of trailers backing into position and to support the trailer. The housing protects all components from damage by weather, dirt and debris. The following components are zinc-plated: track, base plate, housing, hook mounting components and track anchors. The large rotating steel hook has a yellow dichromate finish. Standard vertical load rating 35,000 lbs (15,876 kg).

Installation:

Low-profile Dok-Lok restraint is mounted to a steel plate that is embedded in the dock face or secured by 12 anchor bolts plus 22" (559 mm) of weld to the pit curb angle. Installation does not require modification to the dock leveler. Mounting force is in excess of 100,000 lbs (45,359 kg).

Hydraulics:

The carriage is supported with (2) heavy duty 3-1/2" (89 mm) ID double acting hydraulic cylinders. The hook is positioned with a 1-1/4" (32 mm) ID double acting cylinder. The unit can be powered with its own hydraulic power unit or operate

using the existing hydraulic leveler power unit. Hoses are guarded with hot dipped galvanized coil sleeves. All fittings are JIC or "O" Ring Flange. Hydraulic fluid is bio-degradable.

Electrical/Controls:

Universal Restraint Controller provides flexibility for customizing sequence of operation to most requirements. All operator controls are mounted in a gasketed control panel. The control panel is fully operational at all times and does not require key activation. Hook mechanism and limit switches are totally enclosed in structural steel housing. Electrical components and wiring are UL listed or recognized.

STR-4100 Dok-Lok restraint requires a power source of 110/115 volt, single phase, 60 Hz, with a 20 Amp service circuit. The Universal Restraint Controller on the STR-4100 also provides a Self-diagnostic Program, which greatly simplifies trouble-shooting by checking all inputs and outputs.

Please note: Unless specifically noted on quotation, all electrical, including hook-up, is the responsibility of others.



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 lights.
- ▶ Audible Alarm: Inside alarm helps warn the dock attendant when a normal rear impact guard has not been properly engaged.
- ▶ Audible Alarm Override: A coded push-button control allows authorized personnel to override the audible alarm. When the audible alarm is in override, the inside red and green lights continue to flash simultaneously.
- ▶ Self-diagnostic Trouble-shooting Program: Input and output indicator monitors the system for instant, one person trouble-shooting, which allows fast, easy maintenance.

Warranty:

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

Options:

- ▶ LED light system
- ▶ Interconnect/interlock modules to optimize sequence of operation to specific needs.
- ▶ Combination power unit

**RITE-HITE
DOORS**

RITE-HITE®

Frommelt®

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