

STR-4200

DOK-LOK® VEHICLE RESTRAINT

The original Dok-Lok

More installations worldwide than any other restraint. Backed by Rite-Hite since 1980.

Smooth transition

Hydraulic cylinders help stabilize the trailer to address 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 will capture over the road trailers and intermodal container chassis to help address 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 performance. Resists damage by backing trailers. Corrosion resistant finish for all-weather performance.

Safe, clear communication system

Interior/exterior LED light communication system, including Corner-Vu and Leveler-Vu.

Simple design, low maintenance

E-Z Lube™ axle design makes occasional lubrication quick and simple.



A NEW CATEGORY OF
VEHICLE RESTRAINT PROVIDES A
SMOOTH TRANSITION.

The STR-4200 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-4200 ensures the ultimate in smooth transition and performance.

RITE·HITE
ALWAYS LOOKING AHEAD



Corner-Vu and Leveler-Vu, part of the Rite-Vu™ Light Communication System, enhance visual communication of the Dok-Lok control box.

- ▶ Corner-Vu provides clear, immediate Dok-Lok status to the forklift driver before entering the trailer.
- ▶ Leveler-Vu confirms Dok-Lok status to the forklift driver while inside the trailer.

General description:

The STR-4200 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 operated 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-4200 maintains constant contact with the RIG and supports the rear of the trailer to help address 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 have a corrosion resistant e-coat finish: 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.

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 biodegradable.

Electrical/Controls:

All operator controls are mounted in a NEMA 12 gasketed control box. 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-4200 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-4200 also provides a self-diagnostic program, which greatly simplifies troubleshooting 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.
- ▶ Corner-Vu and Leveler-Vu are standard. Corner-Vu provides clear, immediate Dok-Lok status to the forklift driver before entering the trailer. Leveler-Vu confirms Dok-Lok status to the forklift driver while inside the trailer.
- ▶ 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.
- ▶ Outside light monitor on inside control panel.
- ▶ Self-diagnostic Trouble-shooting Program: Input and output indicator monitors the system for instant, one person trouble-shooting, which allows fast, easy maintenance.
- ▶ LED lights standard: LED lights provide long life. Colored bulbs help prevent miscommunication in the event a lens cover is missing or broken.

Warranty:

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

Options:

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

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