

Pentalock HFR32 Vehicle Restraint Safety System



Direct and indirect costs of an industrial accident at the loading dock can easily exceed \$1,000,000 and result in increased insurance costs.

The Pentalock HFR32 Safety System reduces the potential for such an accident.

The Pentalock HFR32 Safety System offers rugged design, simple and reliable hydraulic operation, minimal maintenance and maximum product value. The loading dock has been rated as one of the most hazardous areas within most facilities. Serious loading dock accidents can result from such things as premature truck departure, trailer creep and collapsing landing gear on spotted trailers. The Pentalock HFR32 Vehicle Restraint is a proven solution to loading dock safety concerns. The reliable hydraulic operation promotes continued use by the dock attendant. The 10-1/2" lowered height accommodates new trailers with increasingly lower rear impact guards (R.I.G.).

Features and Components: Pentalock HFR32 Safety System

Proven hydraulic operation ensures that the restraint will function reliably, in the toughest environments. This is very important based on the harsh environment that most restraints are subjected to. Hydraulic systems have been proven to be extremely reliable and durable. Due to this, hydraulic systems are the activation method of choice in industries such as aircraft and heavy construction equipment. The use of hydraulics on a vehicle restraint eliminates problems associated with relying on external electric motors, linear activators and / or gas spring operation that are incorporated by other manufacturers.

Flood resistant, standard design and construction ensures reliable operation even after unit has been submerged. Other manufacturers offer this feature as an option or not at all.

10-1/2 inch Lowered Height facilitates "No impact" operation. Accommodates new lower vehicle Rear Impact Guards and meets 1998 NHTSA rear impact guard bar regulations for trailers.

Signal Bar requires approximately 30 lbs of pressure to activate, thereby eliminating false engagement signal.

Dual Side-by-side hook arrangement effectively increases the rear impact guard holding strength and the restraining capacity of the restraint.

32,000 lb Restraining Capacity

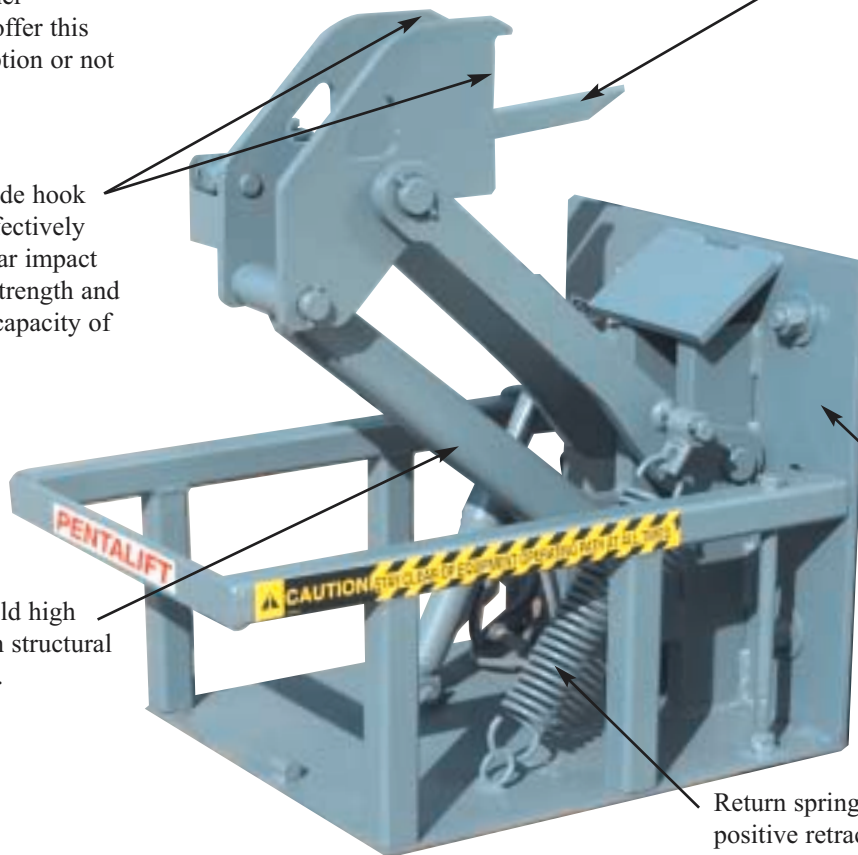
PTFE bushings in combination with Hard Chrome plated pins for reduced maintenance, on all pivot points.

100,000 PSI yield high strength steel on structural arms and hooks.

Heavy – Duty mounting plate ensures simple yet secure installation.

Watertight and corrosive duty limit switches.

Return spring ensures positive retraction of locking assembly.



Note: Restraint is shown in a partially raised position

Rugged structural guard protects the hook arrangement and hydraulic cylinder from impacts such as snow removal equipment and yard trucks. "Open" design allows dirt and debris to naturally move away from restraint components as opposed to competitive designs with boxed in housings that retain and hold dirt and debris that fall into the restraint. With other manufacturers restraints, the boxed in housing causes cleaning of the restraint to be more involved and more frequent.

Communication System Components



Interior sign directs lift truck operator to load/unload on green light signal only.

Exterior high visibility, LED Deluxe lights and dual image safety yellow instruction signs are provided as standard. Narrow width of light and signs facilitates easy installation between dock seal side pads. LED lights ensure long reliable operation.

Control Panels



NEMA 12 interior wall mount control station. High visibility interior signal lights are coordinated with exterior signal lights. Clear, concise and easy to follow instructions guide dock attendant on how to use the system. Selector switch and amber light accommodate "override" mode. CSA certified for the design and manufacturer of industrial control equipment.



Combination control panels combine the controls for loading dock equipment such as Vehicle Restraint System, Hydraulic Dock Leveler, Overhead Door and Inflatable Dock Shelter into a single common panel. This ensures proper use and sequencing of equipment for increased safety and ease of operation. PLC activation is available for more complex interlocking and sequencing.

Reliable Hydraulics



Hydraulic power unit is compact and easily installed on interior wall of loading dock or under the dock leveler. Internal wall mount installation safely positions motor and pump assembly away from the elements, condensation and the potential impact of an incoming vehicle.

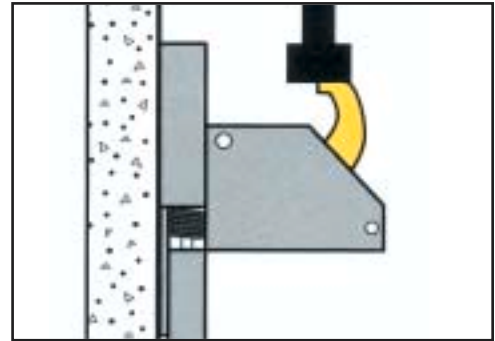
When purchased in conjunction with a Pentalift Hydraulic Dock Leveler, the operation of the Pentalock HFR32 Safety System and Hydraulic Dock Leveler are combined into one single hydraulic power unit for decreased maintenance and increased reliability.

The Pentalock HFR32's 32,000 lb pull rating offers protection against:

- Unscheduled truck / trailer departure
- Excessive trailer creep
- Landing gear collapse

The Pentalock HFR32 Safety System Minimizes the Potential of Dangerous False Engaged Signals

The primary concept of a vehicle restraint system is to engage and hold a truck/trailer while communicating the loading/unloading status to the truck driver and the lift truck operator. The design of many competitive vehicle restraints can cause them to communicate that a truck/trailer is restrained when in fact, it is not. An incorrect signal is far more dangerous than no signal at all since it defeats the primary purpose for installing a vehicle restraint system. A major advantage of the Pentalock HFR32 Vehicle Restraint is its signal bar, which minimizes the potential for a false signal. This signal bar is positioned directly under the area where the R.I.G. should be when it is to be restrained. The signal bar ensures the R.I.G. is properly engaged before it activates the green light on the inside control panel. With other restraint designs, if the tip of the locking member contacts something under the truck, or if the locking member doesn't fully rise or rotate, the restraint can falsely signal that the truck/trailer is engaged. Pentalock HFR32 Vehicle Restraint's signal bar ensures that this can't happen.



Competitors locking member under R.I.G. (improperly restrained)

Pentalock HFR32 Safety System Operation is operator Controlled

The non-impact operation of the Pentalock HFR32 Vehicle Restraint ensures continuing trouble free performance and eliminates damage to the restraint system or to an incoming vehicle's rear impact guard. Other non-impact models are available, but only the Pentalock Model HFR32 Vehicle Restraint provides a structural protective guard as standard equipment. The structural guard withstands accidental impact to the operating components caused by unusually low incoming vehicles and snowplows. The compact design reduces the projection from the dock face as well as the lowered height of the restraint, thereby minimizing the risk of accidental impact from the incoming vehicles, exterior cross traffic or snow removal equipment.



Competitors impact operation can cause damage

The Pentalock HFR32 Safety System Features

- 32,000 lb restraining capacity
- Ease of operation
- Understandable, advanced high visibility communication system
- Meets 1998 NHTSA rear impact guard bar regulations for trailers
- Low profile height of 10 1/2"
- Operation range of 10 1/2" to 28 1/2"
- Dual side-by-side hook arrangement effectively increases the rear impact guard holding strength and the maximum restraining capacity of the restraint
- Open structural guard allows dirt and debris to naturally move away from restraint components as opposed to competitive designs with boxed in housings that retain and hold dirt and debris that fall into the restraint. The boxed in housing causes cleaning of the restraint to be more involved and more frequently
- Heavy-duty structural components
- Reliable, low-maintenance hydraulic operation
- Audible alarm
- Interlocking capabilities with other dock equipment
- Watertight and corrosive duty limit switches ensures reliability

Other Available Options include: Zinc Plated Finish, Pit Extension plate and Cast in concrete weld plate.

Note: Some photos may reflect products with optional features. All Pentalift Equipment products are subject to design improvement through modification without notice.

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