

Pentalock LPR35 Vehicle Restraint Safety System



PENTALIFT

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

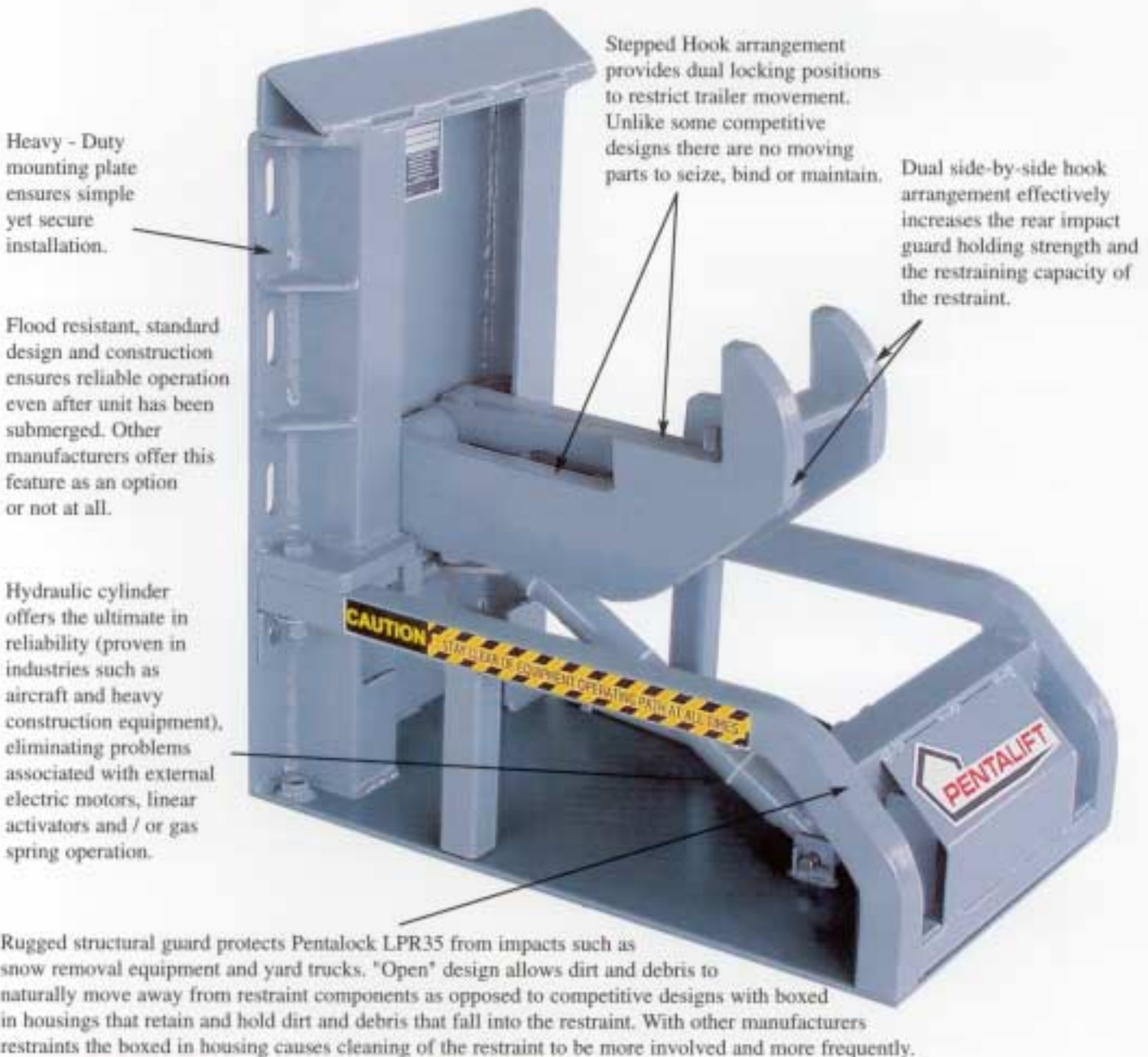
The Pentalock LPR35 Safety System reduces the potential for such an accident.

For a loading dock safety system to be effective, certain important factors must be taken into consideration. There must be clear and accurate communication between the truck operator and the dock personnel. The safety system must be easy to operate and it must perform reliably regardless of the environmental conditions or the generally abusive nature of a loading dock area. The safety system must allow trailers with lower rear impact guards to back into the loading dock without striking the restraint. The safety system must be designed, engineered and constructed to prevent a potentially serious accident at the loading dock. The Pentalock LPR35 Vehicle Restraint System successfully addresses these issues and we confidently invite you to compare it with any and all other vehicle restraints.

Features and Components: Pentalock LPR35 Safety System

Extremely low profile lowered height accommodates new trailers with lower rear impact guards. The lowered height also leaves "room" for the future in consideration of the trend for trailers being produced with lower and lower rear impact guards.

35,000 lb. Restraining Capacity



Communication System



Exterior high visibility, deluxe lights and dual image safety yellow instruction signs provided as standard. Narrow width of light and signs facilitates easy installation between dock seal side pads.

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

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.

Amber light and selector accommodate "override" mode.

Combination control panels combine the controls for all loading dock equipment into a single common panel and interlock dock equipment such as the; Vehicle Restraint System, Hydraulic Dock Leveler, Overhead Door and Inflatable Dock Shelter. 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.

Power unit is equipped with a totally enclosed motor the same style and construction as power units utilized and proven reliable on hydraulic dock levelers for over 40 years.

The Pentalock LPR35's 35,000 lb. pull rating offers protection against:

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

Why is the lowered height of the Vehicle Restraint so important?

In order for the trailer to back into the loading dock the rear impact guard of the trailer must pass over the top of the vehicle restraint. Once this has taken place the vehicle restraint is then activated to engage the rear impact guard of the trailer. Trailer manufacturers are producing trailers with the rear impact guards lower and lower. If the restraint is too high to allow the rear impact guard to pass over the top of it, two significant problems occur: 1) The trailer is unable to back up to the loading dock and cannot be loaded or unloaded. 2) The restraint is unable to engage the truck. The extremely low, lowered height of the Pentalock LPR35 restraint addresses this concern. It is significantly lower than other manufacturers restraints. It addresses concerns related to the continuing trend for lower and lower rear impact guards being supplied on trailers, for today and for the future.

Pentalock LPR35 Safety System Operation is Operator Controlled

The non-impact operation of the Pentalock LPR35 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 LPR35 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 incoming vehicles, exterior cross traffic or snow removal equipment.



Competitor's higher designs result in impacts



Competitor's impact operation can cause damage

The Pentalock LPR35 Safety System Features

- 35,000 lb. restraining capacity
- Ease of operation
- Understandable, advanced high visibility communication system
- Meets 1998 NHTSA rear impact guard bar regulations for trailers
- Extremely low profile lowered height accommodates new trailers with lower rear impact guards
- Stepped Hook arrangement provides dual locking positions to restrict trailer movement. Unlike some competitive designs there are no moving parts to seize, bind or maintain
- 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 warning signal
- Interlocking capabilities with other dock equipment
- Watertight and corrosive duty limit switches ensure reliability

Patent Pending

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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