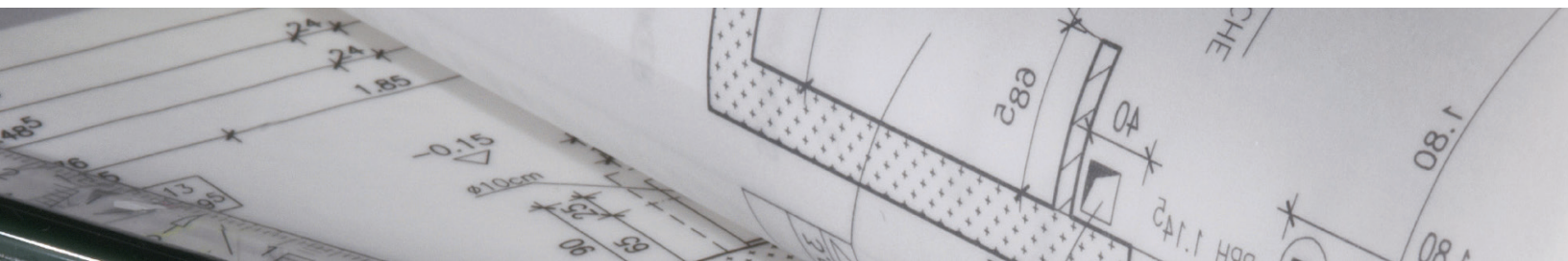




## Pentalift UHR40 Vehicle Restraint System

The Ultimate Vehicle Restraint Safety System

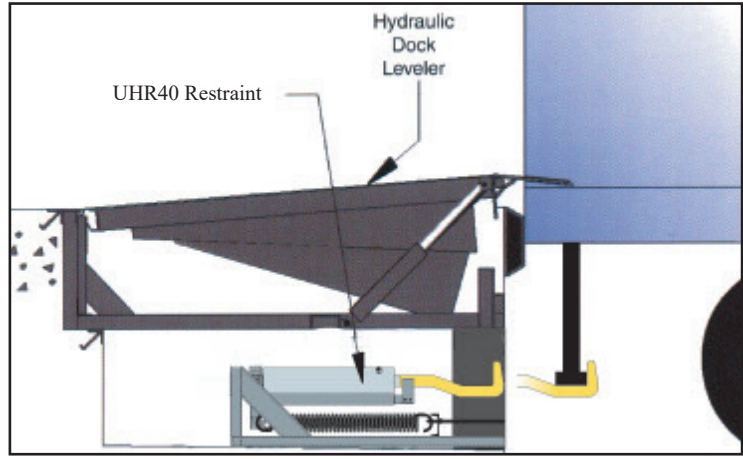


# Engineered for Safety

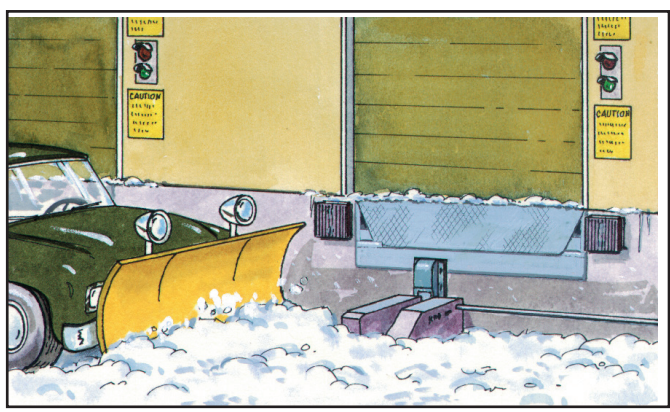


# Installation Placement Positions the UHR40 as the Ultimate Vehicle Restraint System

Important safety equipment should not be affected by the elements commonly present at the face of every loading dock. The fact the UHR40 is protected under the dock leveler (as shown just below) results in the following benefits:



**Benefits:** The "under dock" position of the restraint protects the restraint from adverse conditions on the outside of the dock area. Only the restraint arm is exposed to the external adverse elements at the loading dock. The concerns highlighted below are eliminated.



**Eliminate** damage and costly repairs to the restraint or snow removal equipment caused by hidden impact. **Eliminate** difficulty of negotiating equipment close enough to face of the dock for proper snow removal.



**Eliminate** downtime and maintenance costs caused by accumulation of snow, ice and debris. These conditions can also cause the vehicle restraint to indicate false signals.

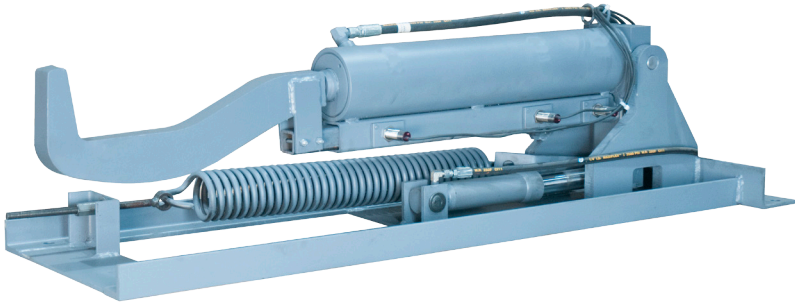
## Pentalift UHR40 Vehicle Restraint System Operation and Function



Once the truck is positioned the UHR40 reaches out and pulls in to hook and securely holds the trailer while loading / unloading takes place. The only component that extends beyond the pit is the heavy-duty steel hook. When the restraint engages, it draws firmly up against the rear impact guard of the trailer. Unlike other types of restraints there is no "gap". The benefit of eliminating the gap is that it stops the trailer from gaining momentum in the event of an unscheduled departure attempt. If momentum is gained it increases the forces applied to all the components holding the trailer. These include the rear impact guard of the trailer, the foundation wall that the restraint is attached to and the restraint itself. Other designs of restraints permit a gap and momentum to exist. The restraint and the restraint communication system (see page 4 for more information on communication system) function in conjunction to create a safe and reliable loading dock.

## Pentalift UHR40 Vehicle Restraint Safety System Design Features

Based on its installation location, simple reliable hydraulic operation, no gap restraint hook positioning, and restraining capacity, the Pentalift UHR40 is the ultimate vehicle restraint. The UHR40 is installed under the dock leveler which reduces maintenance and maximizes the reliability. When restraining the trailer, the only component that extends is the heavy steel hook. When not in use the entire assembly is safely stored and protected under the dock leveler. The main working components are away from weather, dirt and debris. This results in an extended product life expectancy relative to face mounted vehicle restraints. The UHR40 operation assures that there is no "gap" between the restraining hook and the rear impact guard of the trailer. The elimination of any "gap" further increases the holding power of the UHR40, by not permitting a restrained trailer to develop momentum during an unscheduled departure attempt.



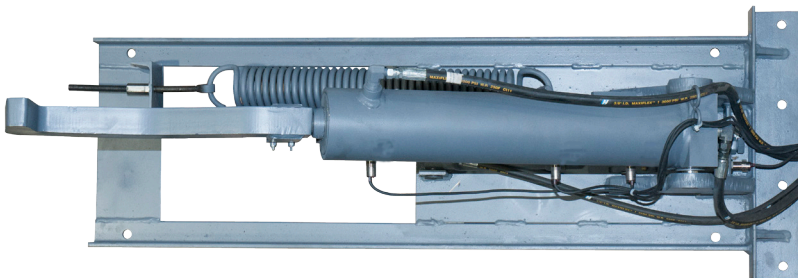
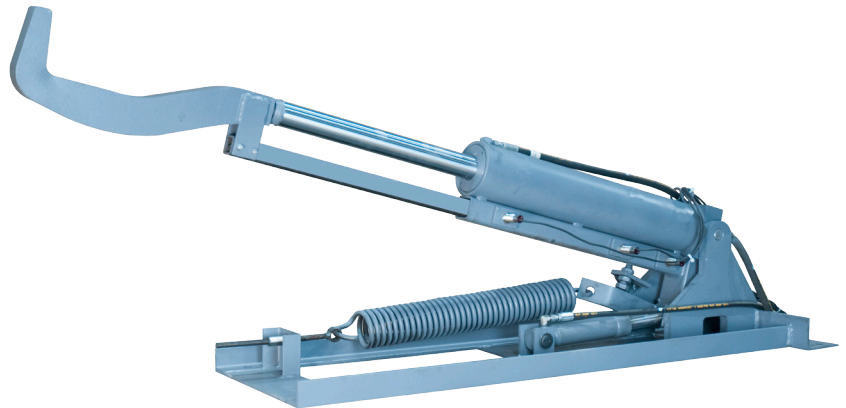
Shown in the retracted and lowered position. Operating range of 9" to 29" and a restraining capacity of 40,000 lb.

Hydraulic cylinders offer the ultimate in reliability (proven in industries such as aircraft and heavy construction equipment), eliminating problems associated with external electric motors, linear activators and / or gas spring operation.

Shown in the raised and extended position. The external float spring facilitates easy adjustment and allows the UHR40 to fully "float" with the trailer suspension.

Heavy-Duty Steel Hook, constructed from 1-3/4" thick, 50,000 PSI minimum yield steel plate provides a 40,000 lb. draw bar rating.

Submersion rated proximity switches sense the restraints position and provide feed back to the control PLC.



Top View

Simple reliable design.

Open design maximizes maintenance access and facilitates easier and faster installation. Recessed installation location increases life expectancy relative to face mounted vehicle restraints.

Note: Some images show the UHR40 with an optional yellow restraining hook.



# Pentalift UHR40 Vehicle Restraint Communication System



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



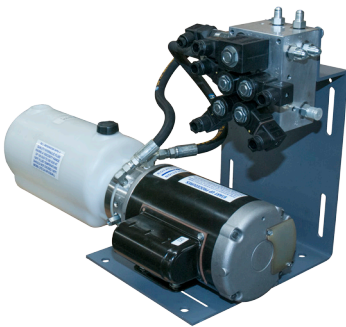
Interior sign directs lift truck operator to load/unload on green light signal only.



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 switch to accommodate "override" mode. Combination control panel (shown above) combines 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 standard.



UHR40 is shown in the stored position, ready to accept the trailer. All of the restraint components are protected under the dock leveler, away from snow, ice and debris. The installation provides a "clean" appearance.



The UHR40 hydraulic power unit is compact and easily installed on an interior wall of loading dock. 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 restraint and hydraulic dock leveler are combined into one single hydraulic power unit and one common control panel which result in easier installation, simpler and safer operation, decreased maintenance and increased reliability.

Individual Product Catalogs are available and can also be found on our website. Pentalift also manufactures a complete line of Lift Tables for your in plant material handling needs.

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



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