



ENGINEERED FOR SAFETY

HD SERIES

HYDRAULIC DOCK LEVELER

DEPENDABLE PERFORMANCE. PUSH-BUTTON OPERATION.



35,000 TO 150,000 LB CAPACITIES

Built for demanding loading dock applications

CONTROLLED HYDRAULIC OPERATION

Push-button-controlled hydraulic operation raises the deck and extends the lip for positioning on the trailer bed. Full hydraulic float allows the deck to follow trailer movement during loading and unloading, maintaining a smooth transition. Hydraulic fall-safe protection enhances safety, while optional interlocking allows integration with vehicle restraints and overhead doors.

STANDARD HD CAPACITY RATINGS

35,000 | 45,000 | 60,000 | 80,000 | 100,000 | 150,000 lb

STANDARD MODEL RANGE

6 FT WIDE

HD66

6 x 6 ft

HD68

6 x 8 ft

HD610

6 x 10 ft

6.5 FT WIDE

HD6.56

6.5 x 6 ft

HD6.58

6.5 x 8 ft

7 FT WIDE

HD76

7 x 6 ft

HD78

7 x 8 ft

HD710

7 x 10 ft

COMMON OPTIONS

- Integrated vehicle restraint system
- Steel-face bumpers
- HDRS roll-off stop lip
- Auto return
- 18- or 20-inch lip
- Pour-in-place pan
- Low-temperature hydraulic oil
- Remote hydraulic power unit
- Rubber or brush weather seal
- Spray foam insulation
- Lip hinge grease fittings



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ENGINEERED DETAILS

Designed with dependable hydraulic operation and rugged dock construction.

STRUCTURE & CONSTRUCTION

10 PRECISION-FORMED C-BEAMS | 6 REAR SUPPORT POINTS

Precision-formed C-beams and a central deck beam distribute loads, while the full-width rear hinge and structural-channel tailboard form a strong, rigid box section.

BUILT-IN SAFETY

- Full-range toe protection
- Flush rear hinge reduces pinch points
- Hydraulic velocity fuse limits platform free fall to 3 inches
- Integral maintenance stand supports deck and lip during service



KEY COMPONENT 1

PENTALOGIC™ HYDRAULIC MANIFOLD

With only two moving parts, Pentalogic™ uses a simple, non-adjustable hydraulic circuit that reduces valve complexity and potential leak points. Its self-retracting lip gently returns behind the protective bumpers after trailer departure.



KEY COMPONENT 2

FORWARD-POSITIONED LIFT CYLINDER

Positioned at the deck/headboard junction, the lift cylinder provides favorable lifting geometry and directs loading forces into the frame during a hydraulic fall-safe event. Its top-fed design helps purge air and keeps hoses clear of pit debris. A hydraulic velocity fuse limits platform free fall to 3 inches.



KEY COMPONENT 3

HYDRAULIC POWER UNIT

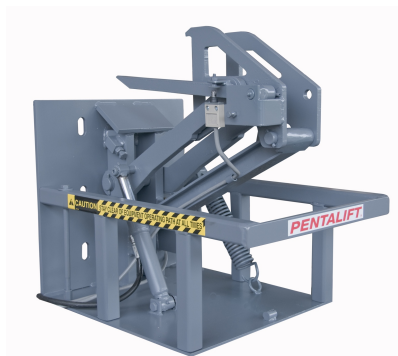
An internal filtration system and a 1 HP totally enclosed, non-ventilated motor supply flow and pressure to the Pentalogic™ manifold. Manufactured in the United States, power units are available in common single- and three-phase AC voltages.

Consult a Pentalift sales representative for application-specific recommendations.

INTEGRATED DOCK SAFETY

Pentalift vehicle restraints, inflatable shelters and interlocked controls.

PENTALIFT VEHICLE RESTRAINTS



HFR32



RVR32

Pentalift offers HFR, RVR, LPR and UHR vehicle restraints for different dock applications. Optional interlocking can prevent hydraulic leveler operation until the restraint is engaged.

INFLATABLE DOCK SEALS & SHELTERS



PSI-350AA | PSI-400 | PSI-450

Pentalift inflatable models can be interlocked with hydraulic dock levelers and vehicle restraints through a combination control panel.

Configured interlocks can coordinate inflation with other dock equipment for safer, more productive operation.

CONTROL PANELS



STANDARD CONTROL



COMBINATION CONTROL PANEL

FROM STANDARD TO INTERLOCKED CONTROL

As standard, a NEMA 12 push-button station operates the leveler. Optional factory-built combination panels coordinate the leveler, restraint, overhead door and inflatable shelter.

ILLUSTRATIVE OPERATING SEQUENCE

1. Engage the vehicle restraint
2. Inflate the dock shelter
3. Open the overhead door
4. Position the dock leveler
5. Load / Unload the trailer

Sequence depends on site-specific controls and operating procedures.