

Series MD Mechanical Dock Leveler

The Pentalift Series MD Mechanical Dock Leveler offers many beneficial operational and safety features. These features are shown on the following pages.



Model MD6835 shown

Series MD Mechanical Dock Leveler Structural Features

- 1 High-strength, 4-way safety tread Plate, deck and lip assembly: 55,000 psi yield.
- 2 Full-width self cleaning, heavy-wall hinge tube: 70,000 psi yield.
- 3 Gussets on lip and headboard hinge maximize support.
- 4 3/8" Thick, 50,000 psi yield, headboard with bridged gaps.
- 5 Structural, precision-formed "C" beams; 65,000 psi yield. Specially designed beams allow Pentalift to create and build the deck support with optimal strength-to-weight ratio for a Dock Leveler. Utilizing 10 beams assures an even load distribution and maximum deck support.
- 6 Central deck beam for added support of three wheeled vehicles.
- 7 Rear frame assembly features five vertical structural members with eight points of even support for the full width of the rear hinge.
- 8 Heavy-duty front frame provides full width, cross traffic support and superior building aesthetics.
- 9 Night locks prevents unauthorized entry when overhead door is locked on top of Dock Leveler.
- 10 Full width, structural channel tail board and one piece, full width rear hinge, complete with heavy steel gussets. Pentalift's unique welded assembly provides a box section for superior support and strength.

Pentalift Series MD Mechanical Dock Leveler Operating Features

The Pentalift Series MD Mechanical Dock Leveler incorporates unique and important operating features to achieve the most safe and reliable operation available in a Mechanical Dock Leveler. These operating features are described in more detail below.

A Easy Float™ Hold-Down (See following page for more details)

The patented Pentalift "Easy Float" Hold-Down represents the best design for addressing Dock Leveler Hold-Down concerns. Refer to the following page for a more detailed description of how it works and the benefits it provides over competitive designs.



B Posilock™ Lip Lock Mechanism

The patented Pentalift Posilock Lip Lock Mechanism is an all in one design that always allows the dock attendant to deploy the Dock Leveler in a safe and controlled manner. Other competitive designs, take away control from the dock attendant by using hydraulic shocks to control the decent of the lip. This forces the dock attendant to rush walking down the Dock Leveler platform. The Pentalift mechanism maintains extension of the lip, then automatically retracts once the truck departs. The lip is yieldable if contacted in the extended position during truck/trailer positioning.

C Lifting Assembly

Computer optimized cam profile and lifting arm geometry result in extremely efficient lifting forces and lower walk down weight requirements. These reduced forces also result in reduced wear on the Dock Leveler. Spring adjustment is made at a single point that is easily accessible from the front of the Dock Leveler. There is no requirement to crawl under the Dock Leveler to adjust it.

D Fixed Rear Hinge

Fixed rear hinge remains flush with the rear of the pit to eliminate pinch points and surface obstructions. Small gap at deck plate and frame conjunction reduces impact or bump for fork lift operator compared to competitive designs.

E Mechanical Safety Legs

Mechanical Safety Legs limit platform free fall in the event of premature truck departure; includes Below Level Control.

F Full Range Toe Protection

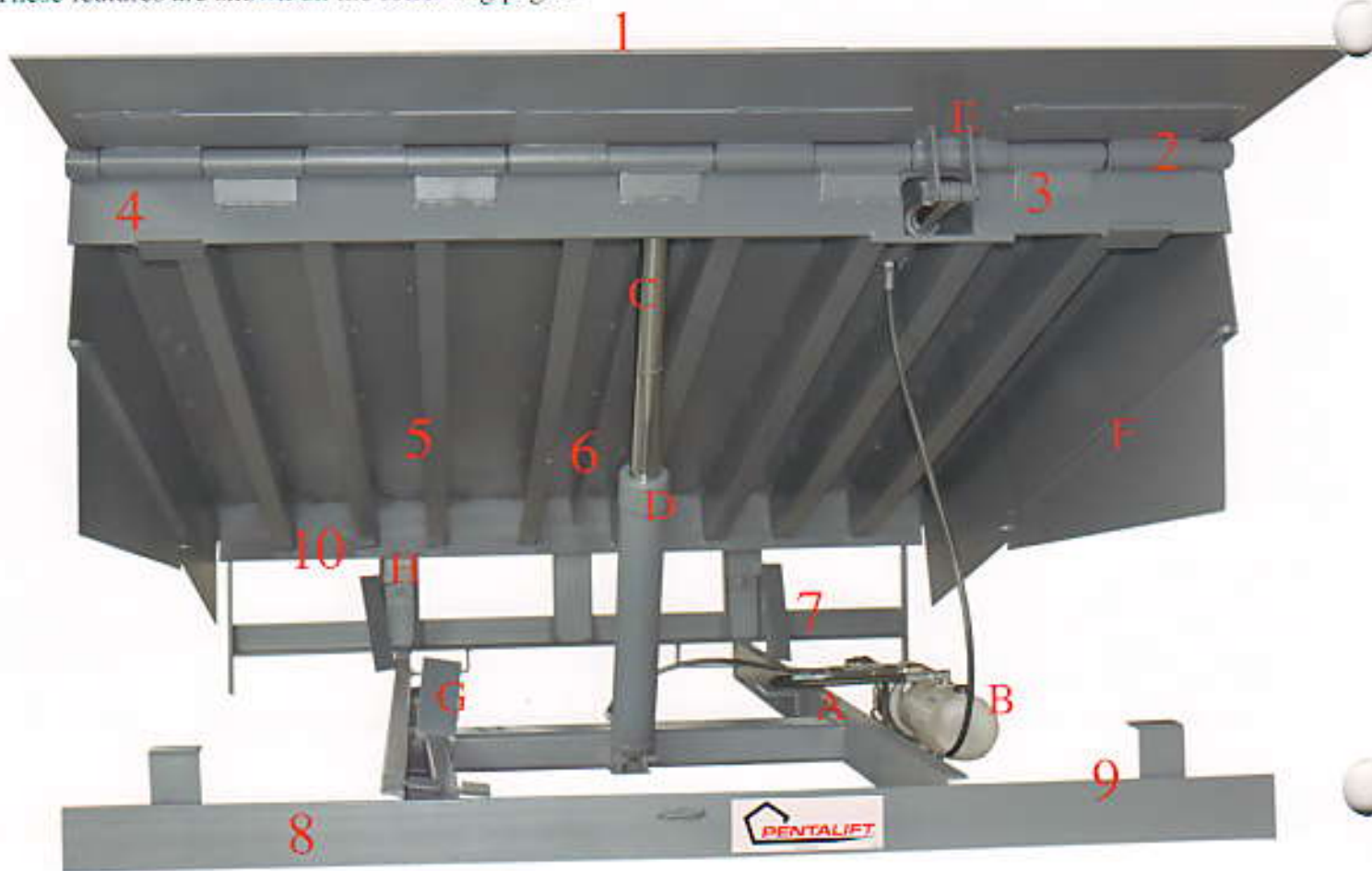
Full Range Telescopic Toe Protection; upper and lower sections feature a "bend relief" to increase strength.

G Integral Maintenance Stand (See opposite page for photo in Dock Leveler & shown in stored position)

Integral Maintenance Stand facilitates support during routine support and Maintenance. Pentalift Maintenance stand supports the lip as well the Dock Leveler deck assembly.

Pentalift Series HD Hydraulic Dock Leveler

The Pentalift Series HD Hydraulic Dock Leveler offers many beneficial operational and safety features. These features are shown on the following pages.



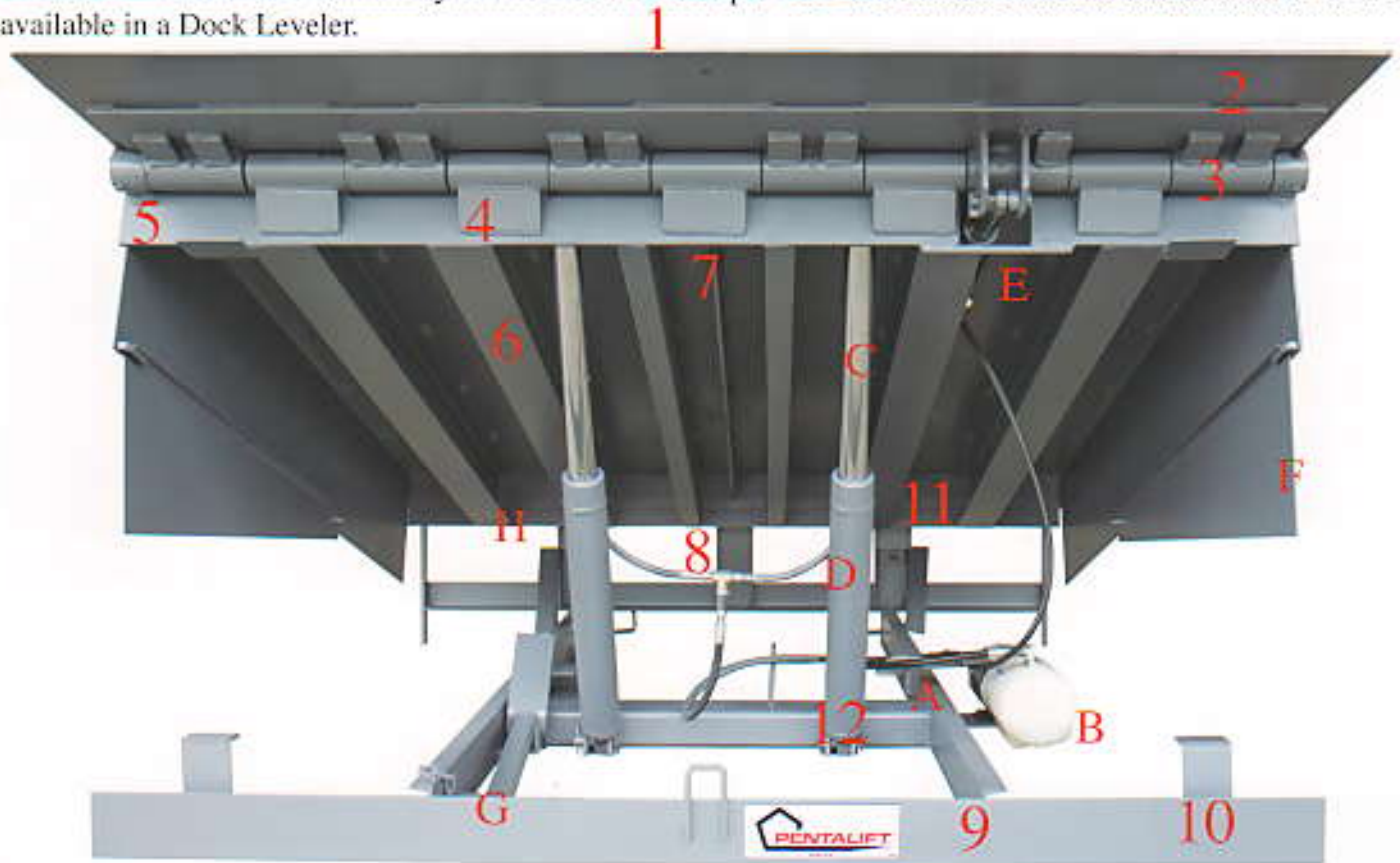
Model HD6835 shown

Series HD Hydraulic Dock Leveler Structural Features

- 1 High-strength, 4-way safety tread Plate, deck and lip assembly: 55,000 psi yield.
- 2 Full-width self cleaning, heavy-wall hinge tube: 70,000 psi yield.
- 3 Gussets on lip and headboard hinge maximize support.
- 4 3/8" Thick, 50,000 psi yield, headboard with bridged gaps.
- 5 Structural, precision-formed "C" beams; 65,000 psi yield. Specially designed beams allow Pentalift to create and build the deck support with optimal strength-to-weight ratio for a Dock Leveler. Utilizing 10 beams assures an even load distribution and maximum deck support.
- 6 Central deck beam for added support of three wheeled vehicles.
- 7 Rear frame assembly features five vertical structural members with eight points of even support for the full width of the rear hinge.
- 8 Heavy-duty front frame provides full width, cross traffic support and superior building aesthetics.
- 9 Night locks prevents unauthorized entry when overhead door is locked on top of Dock Leveler.
- 10 Full width, structural channel tail board and one piece, full width rear hinge, complete with heavy steel gussets. Pentalift's unique, welded assembly provides a box section for superior support and strength.

Pentalift Series HU Ultima Hydraulic Dock Leveler

The Pentalift Series HU Ultima Hydraulic Dock Leveler provides the Ultimate value in function and structure available in a Dock Leveler.



Model HU6845 shown

Series HU Ultima Hydraulic Dock Leveler Structural Features (45000 lbs capacity)

1. Deck Plate High-strength, 4-way safety tread Plate, deck and lip assembly: 55,000 psi yield.
2. Lip Plate Assembly High-strength safety checker plate lip assembly, 1" rear laminated; c/w 3/8" x 6" reinforcing plate, 55,000 psi yield.
3. Full-width self cleaning, heavy-wall hinge tube, 2-1/2" OD X 1-1/2" ID: 70,000 psi yield.
4. 3/8" thick gussets on lip and headboard hinge maximize support.
5. 3/8" Thick, 50,000 psi yield, headboard with bridged gaps.
6. "I" Beam deck support 6" structural "I" Beams @ 12 lbs per foot.
7. Central deck beam for added support of three wheeled vehicles.
8. Rear frame assembly features five vertical structural members with eight points of even support for the full width of the rear hinge.
9. Heavy-duty front frame provides full width, cross traffic support and superior building aesthetics.
10. Night locks prevents unauthorized entry when overhead door is locked on top of the Dock Leveler.
11. Full width, structural channel tail board and one piece, full width rear hinge, complete with heavy steel gussets. Pentalift's unique, welded assembly provides a box section for superior support and strength.
12. Dual deck lift cylinders.

Note: In addition to the 45,000 lbs capacity model shown here, Series HU Ultima Hydraulic Dock Levelers are available in 30,000 and 35,000 lbs capacities. These capacities maintain "I" Beam construction. Lip plate thickness, "I" Beam sizing, lip hinge tubes and lip hinge pin diameters are all reduced in size relative to the 45,000 lbs capacity model reflected above to correspond with the capacity ratings reduction. These two capacities incorporate single deck cylinders. Contact your Pentalift Representative for more details.