



Pentalift MD Series Mechanical Dock Levelers



MD Series Mechanical Dock Levelers are designed and built to provide superior product value through prolonged, trouble-free performance. Its semi-automatic operation requires no manual lifting. MD Series Mechanical Dock Levelers are operated by a simple pull chain release at the rear of the deck. All lift dock levelers are factory-tested before shipping.



Features:

- patented Easy-Float hold-down assembly
- ergonomic hold-down only requires a maximum of 8 lb of release force
- adjustable brake band permits deck assembly to float during loading/unloading
- yieldable lip is mechanically activated and spring assisted
- fixed rear hinge assembly facilitates deck canting
- maintenance stand
- night lock
- yellow/black safety striping

Description:

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Operation:

When the operator pulls the release ring located at the rear of the deck, the deck rises to its full height. During the upward deck motion, the lip automatically extends into position. The operator then "walks" the deck down until the extended lip rests on the truck/trailer bed. The deck floats over the entire operating range to accommodate the movement of the truck/trailer suspension. All MD Series Mechanical Dock Levelers use the patented Easy-Float hold-down assembly. After truck/trailer departure, the lip automatically retracts behind the dock bumpers.

Structural Features:

- High-strength safety checker plate deck and lip assembly, 55,000 psi yield.
- Full-width, self-cleaning, heavy-wall hinge tube, 65,000 psi yield.
- Gussets on lip and headboard hinge maximize support.
- 50,000 psi yield headboard with bridged gaps and radii on all inside corners for maximum strength
- Structural "C" beams. Structural "C" beams allow it to create and build the deck support with optimal strength-to-weight ratio for a dock leveler. Utilizing six (6) beams assures an even load distribution and maximum deck support.
- Central deck beam for added support of three-wheeled vehicles.
- Full-width, structural channel tailboard and one-piece, full-width rear hinge complete with heavy steel gussets. This unique, welded assembly provides a box section for superior support.
- Rear frame assembly features eight points of even support for the full-width rear hinge.
- Heavy-duty front frame provides full-width, cross-traffic support and superior building aesthetics.
- Night lock prevents unauthorized entry when overhead door is locked on top of dock leveler.

Operating Features:

- Positive lip lock assembly maintains extension of the lip, then automatically retracts once the truck departs. Lip is yieldable if contacted in extended position during truck/trailer positioning.
- Lip-assist spring assembly counterbalances the weight of lip for smoother extension and retraction.
- Computer optimized cam profile reduces "walkdown" forces.

- Mechanical safety legs, with below level center, limit platform freefall in the event of premature truck/trailer departure.
- Full-range telescopic toe protection assures total dock attendant safety. Section features a "bend relief" to increase strength.
- Fixed rear hinge remains flush with rear of the pit to eliminate potential pinch points and surface obstruction. Design allows 4" of lateral deck compensation to accommodate canted truck/trailer beds.
- Heavy-duty, adjustable lift springs.
- Safe, easy maintenance with only three adjustment points, conveniently located at the front of the leveler, eliminate the need to enter the pit.

Easy-Float hold-down assembly

The Easy-Float hold-down assembly ensures stress-free operation. The Easy-Float hold-down assembly can be released in any position with a minimal release force of 8 lb. Contact between the lip and truck/trailer bed is guaranteed since the Easy-Float hold-down automatically compensates for the up and down movement of the truck/trailer suspension.

Options:

- pour-in-place design
- Mechanical failsafe with below level control
- foam insulated deck
- full range toe guards
- weather seal (rubber or brush)
- 18" or 20" lip length
- other options available
- Models available in rated capacities of 25,000 lb to 50,000 lb.