



Engineered For Safety

## Mechanical Dock Leveler



### Operation

Series MD mechanical dock leveler is manually operated. To activate the dock leveler the release chain is pulled. The upward biased multi-spring counterbalanced assembly raises the dock leveler deck and lip assemblies. The positive lip lock mechanism rotates and holds the hinged lip in the extended position. The dock leveler can now be walked down into position on the trailer bed for loading / unloading.

### Model Sizing:

Model	Nominal size
MD66	6' x 6'
MD68	6' x 8'
MD610	6' x 10'
MD6.56	6.5' x 6'
MD6.58	6.5' x 8'
MD6.510	6.5' x 10'
MD76	7' x 6'
MD78	7' x 8'
MD710	7' x 10'

### Common Options

Longer Lip Lengths (18" and 20")
Weather Seal (Rubber or Brush)
Dock bumpers (Molded, Laminated Steel Face)
Pour In Place Pan
Integrated Vehicle Restraint System
Shim Kits (To fit dock leveler to deeper pits)
Spray Foam Insulation
Full Range Toe Guards

MD dock options page: <https://pentalift.com/loading-docks/mechanical-dock-leveler-options.php>

### Capacities:

Pentalift MD Dock Levelers are available in 25, 30, 35, 40, 45, 50,000 lbs. capacities.

## Structure / Construction:

Series MD mechanical dock leveler utilizes structural precision formed “C” beams to assure even load distribution and maximum deck support with a central deck beam for three wheeled vehicles. Gussets on lip and headboard hinge maximize strength. The full width structural channel tail board and one piece rear hinge mounted in compression with Pentalift’s unique welded assembly provides a box section for superior strength. The rear frame assembly features four vertical structural members with six points of even support for the full width of the rear hinge.



## Ratchet Hold-Down

Ratchet and pawl teeth are precision machined for consistency, reliability and are engineered for superior holding ability while reducing release force. The float spring (inside the spring tube) allows the dock leveler deck to float with the trailer during loading/unloading. The ratchet and pawl teeth configuration with oversized pulleys result in a lowered pull force required to release the Hold-Down.



## Posilock™ Lip Lock Mechanism

The patented Pentalift Posilock™ Lip Lock Mechanism is an all in one design that allows the dock attendant to deploy the dock leveler in a safe and controlled manner. Other competitive designs take control away 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 Posilock mechanism maintains extension of the lip, then automatically retracts once the truck departs. The lip is yieldable if impacted in the extended position during truck / trailer positioning.



## Lifting Assembly

Pentalift’s cam profile design and lifting arm geometry result in extremely efficient lifting forces and lower walk down weight requirements. By reducing these forces there is less stress and wear generated on the dock leveler hold-down assembly. 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 the main lift spring tension.

Consult a Pentalift Sales Representative for additional information or equipment recommendations

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

# PENTALIFT EQUIPMENT CORPORATION