

Mechanical Dock Levelers

Serco mechanical dock levelers incorporate premium features such as a single point adjustment extension spring counterbalance, unlimited float hold-down, and an integral maintenance strut & lip support latch, thereby setting the industry standard for dependability and operator safety.

POSI-TRAC® hold-down: Smooth, fingertip operation

Throughout loading operations, trailers move up and down, putting strain on float springs and increasing wear on conventional ratchet/pawl style mechanical levelers. With the increased use of air-ride suspension trailers, restoring the dock leveler off the back of the trailer becomes even more difficult. Time and energy are wasted and replacement parts increase operational costs. That's why Serco developed Posi-Trac.

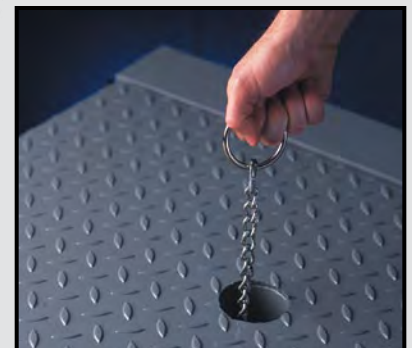
The patented Serco Posi-Trac hold-down offers an extended float range throughout the leveler's working range and provides easy fingertip release. This is accomplished with an exclusive brake band and a 32-tooth spur gear assembly that replaces maintenance-intensive conventional hold-downs. The Posi-Trac eliminates "bouncing" from float spring fatigue. The lip maintains level contact with the truck bed, even with air-ride suspension trailers. In below-dock operations, the Posi-Trac's hold-down compensates to counteract the main spring counter-balance of the leveler.

Serco's unique design is easy to operate, produces less wear on components, is more dependable than ordinary float spring units and provides an overall lower lifetime cost of ownership than conventional mechanical dock levelers.



INTEGRATE YOUR EQUIPMENT FOR IMPROVED SAFETY AND EFFICIENCY.

When combined with Serco vehicle restraints, mechanical dock levelers and other dock devices provide a safer operation.



▲ Posi-Trac fingertip leveler release requires only 10 lbs. of lifting force.

The W series mechanical dock leveler

HYDRA CAM™ LIP CONTROL: Lite-Step Walkdown For Easy Positioning.

Serco's patented HYDRA CAM™ lip control is designed to decrease walk-down force on levelers including heavy capacity levelers and levelers with larger lips.

The HYDRA CAM lip control counterbalance mechanism improves lip extension. When the hold-down is released, the dock leveler raises and the lip is extended gently, without the violent action of other lip mechanisms. With Serco's HYDRA CAM, the lip remains extended until the operator starts to walk the leveler down. A hydraulic shock absorbing cylinder controls the rate of lip fall as the leveler is walked down to the truck. The lip is yieldable throughout the entire working range.



STRUCTURAL SAFETY LEGS: SAFETY WITHOUT FREE FLOAT INTERFERENCE.

Serco W Series mechanical levelers are equipped with structural steel safety legs to provide emergency support should a trailer depart with a load on the leveler platform. The safety leg system is not disengaged or deactivated by lip movement. The safety legs are designed to allow an extended free float range and to prevent premature engagement when operating below dock by incorporating an innovative Anti-Interference Cam.



Product Specifications

- ① *Integral deck maintenance strut with lock-out capability*
- ② *Working range toe guards (Full-range optional)*
- ③ *High tensile steel lip and deck*
- ④ *Structural steel safety legs stop leveler platform at dock level*
- ⑤ *Posi-Trac hold-down provides unlimited float through leveler working range*
- ⑥ *Unique oil-tempered chromium silicone steel extension spring counterbalance with single point adjustment for easy routine maintenance. Spring position above pit floor provides greater reliability than floor mounted springs.*
- ⑦ *Exclusive SafeTFrame™ provides superior structural support and level interface with warehouse floor*
- ⑧ *CLEAN FRAME® pit design allows unobstructed access for easy clean up of spills, trash removal and routine maintenance.*
- ⑨ *Integral lip support latch*
- ⑩ *Lip keepers secure leveler when overhead door is down*
- ⑪ *Exclusive HYDRA CAM™ extends and holds the lip at the top of its cycle. The lip remains yieldable throughout the loading operation*

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A Safer, stronger dock leveler



For decades all dock levelers installed in a concrete pit have required an installer to

place and weld steel shim under the rear frame in order to level the device and provide long-term support. This conventional process can lead to install errors as installers are often working under the dock leveler in a cramped environment and may not use the correct size shim and/or weld the shim properly. The result... the dock leveler can suffer structural fatigue which may lead to expensive repair or replacement.



SAFETFRAME ADVANTAGES:

- Greater structural strength & durability
- Eliminates installation issues common with conventional dock levelers
- Ensures level transition from warehouse floor to dock leveler
- Eliminates premature structural fatigue due to improperly shimmed/installed dock leveler

DON'T JUST OBSERVE IT, LIVE THE EXPERIENCE.

Serco® leads the industry in specialty hydraulic dock levelers, safety products and programmable control systems, offering a comprehensive portfolio of loading dock and warehouse solutions. We are delighted to invite you to our 6,000 square foot showroom, known as the Entrematic Academy in Carrollton, Texas. The Entrematic Academy gives you a very special opportunity to get to know our products in person. Gain hands on experience and enjoy one-on-one interaction with our engineering and manufacturing team in this state-of-the-art facility.



CAN'T MAKE THE TRIP TO DALLAS? Let our Mobile Academy come to you. Our 53' completely enclosed and temperature-controlled trailer features over 25 full-sized, fully-functional dock equipment demo units. Call 1-877-778-DOCK (3625) to schedule an appointment and we'll drive our solutions straight to your door.



1612 Hutton Dr., Suite 140
Carrollton, TX 75006

Tel: 800.933.4834
Fax: 972.323.2639

email: serco@entrematic.com
www.sercoentrematic.com

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A continuing research program is in effect at Entrematic. We reserve the right to incorporate product improvement at any time without prior notice.