

DOCK LEVELER  
HYDRAULIC

**KELLEY**<sup>®</sup>



## THE KELLEY HYDRAULIC LEVELERS MEET DOCK CHALLENGES DAY-IN AND DAY-OUT

Kelley Hydraulic Dock Levelers — HP Series, HK Series, HHC Series and the VERSA Series—are designed to handle the fast pace of busy loading docks. Advanced hydraulic technology and standard features like regenerative hydraulics, premier lug-style lip hinges, Lambda® beam structure and unique open-frame designs keep productivity high and maintenance costs low. Kelley Hydraulic Dock Levelers meets the demand of the busy loading dock and delivers safety, convenience and reliability. The patented SafeTFrame provides exceptional structural support. Available in capacity ratings from 30,000 to 80,000 pounds.



### PRODUCT DETAILS

1. Lambda beam design and construction
2. Automatic retracting 60,000 lb. (27,216 kg) structural steel dock level support legs for full, unrestricted working range
3. Integral support strut keeps ramp raised for routine maintenance and cleaning
4. 4" (102 mm) diameter regenerative hydraulic cylinder mounted at front of ramp for maximum strength and efficiency
5. Totally enclosed, non-ventilated, unitized hydraulic pump and motor assembly for longer life and lower maintenance cost
6. Unique open frame design for easy access and cleaning
7. Patented SafeTFrame™ provides superior structural support and level interface with warehouse floor.
8. Integral lip lock keeps lip raised for routine maintenance and cleaning
9. Self-cleaning lug-style lip hinge with rated lifetime warranty
10. Full operating range toeguard

# FEATURES

## SUPERIOR HYDRAULICS

Kelley hydraulic dock levelers utilize a totally enclosed, non-ventilated, regenerative hydraulic system. Old systems expose the cylinder to air, moisture and oxidation, but Kelley's regenerative system bathes the entire cylinder in oil in the stored position, eliminating rust in the cylinder and wear on the seals.

Many other hydraulic systems place the hydraulic cylinder in the center of the deck, putting enormous strain on the front of the dock leveler. Kelley hydraulic cylinders are positioned at the front of the deck to provide even distribution of the load weight, especially in a free-fall situation. Additionally, the chrome-plated cylinder rods are protected under the deck structure, well above the pit floor and away from dirt, debris and potential damage.

## DESIGNED FOR IMPROVED SAFETY

Kelley hydraulic dock levelers come standard with a hydraulic velocity fuse built into each cylinder, which restricts free fall of a loaded ramp to three inches, should a truck pull away from the dock prematurely.

A stop button with unique safety stop solenoid valve comes equipped on Kelley hydraulic dock levelers, which can interrupt the flow of hydraulics to stop the dock leveler at any stage of operation.

- Regenerative hydraulic system provides longer life and greater reliability
- Totally enclosed hydraulic pump and motor in one assembly for longer life and lower maintenance costs
- Exclusive SafeTFrame® design for superior structural support and durability
- Hydraulic velocity fuse safety stop to restrict free-fall in case a trailer pulls away from the dock prematurely
- Proven lug style lip hinge and lambda beam structure provide longer life and require less maintenance
- Open-frame design for easy pit cleanout
- Full operating range toe guards for safety
- Reduced lip crown/extended lip chamfer
- Below dock end loading capability
- Fixed rear hinge - no pinch points



### SafeTFrame™

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 installation errors, as installers are often working under the leveler in a cramped environment and may not use the correct size shim or weld the shim properly. The result: the leveler can suffer structural fatigue, which may lead to expensive repair or replacement.



### DESIGN ADVANTAGES

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

## FULL RANGE CONTROLS OPTIONS

### TOUCH CONTROL

Kelley hydraulic dock leveler functions are controlled through a Digital HMI control panel. The operator pushes the button to raise the ramp. When the button is released, the dock leveler descends into position.



### FULL HYDRAULIC CONTROL

Kelley hydraulic dock levelers are available with optional independent lip extension and hydraulic stop buttons to provide optimum operational efficiency and safety. They can also be fitted with automatic return-to-dock activation. Master Panels integrate all equipment controls into one simple panel, saving wiring costs and improving efficiency and safety.



# MODELS

## HP SERIES

The HP Series Hydraulic Dock Leveler is built for productivity and easy operation. Automatically operated with single push-button activation along with a mechanically activated lip, the HP Series' unique Gravity Lip™ Extension automatically extends the lip in a smooth, quiet fashion as the dock leveler descends into the trailer.



## HK SERIES

The HK Series Hydraulic Dock Leveler is built with performance and efficiency in mind. It provides full hydraulic operation with single push-button activation. The HK hydraulic dock leveler can be equipped with a steel safety barrier lip.

## HHC SERIES

The HHC Series Heavy-Capacity Hydraulic Dock Leveler — available in 60,000 lb. (27,215 kg) or 80,000 lb. (36,287 kg) capacities— is built to last in the most demanding environments. It's ideal for applications moving a large volume of heavy loads, such as in the paper production, auto manufacturing and steel industries. This hydraulic dock leveler integrates all the standard features that Kelley hydraulic levelers are known for, along with a rugged design for handling the toughest loads.



80,000 lb. capacity shown

## VERSADOCK™ SERIES

The VERSADOCK™ Series Hydraulic Dock Leveler's versatile design can function as a conventional dock leveler while also providing the flexibility to handle high-cube (low boy) vehicles at a single dock position. This specialty hydraulic dock leveler is designed to be a full 9' wide for unobstructed below-dock access. Both vertical bumpers and lip extension are powered with dual hydraulic main and power-in/power-out cylinders on the 60,000 lbs. (27,215 kg) and 80,000 lbs. (36,287 kg) capacity models. Service range up to 18" (457 mm) below dock depending on leveler length.



STANDARD FEATURES:	HP	HK	HHC	VERSA
Standard 16" (406 mm) lip	■	■		
Standard 18" (457 mm) lip			■	■
Automatic Retracting 60,000 lbs. (27,215 kg) Structural Support legs	■	■		
Automatic Return-to-Dock				■
Integral Maintenance Strut & Lip Support Latch	■	■		
Dual Integral Maintenance Strut & Lip Support Latch			■	■
Safety Barrier Lip Option		■	■	■
Heavy-duty Dock Bumpers	■	■	■	
Integral Steel Faced Bumpers				■
Grease Fittings			■	■
Full 9' Wide Below-dock Access				■
Nema 4X Push-button Control Panel (Non-Interlock Capable)	■	■	■	
Steel Nema 12 Push-button Control Panel (Interlock Capable)				■
Independent Hydraulic Lip Control (Quick Cycle)				■
Powered In and Out Lip Extension Control			■	■
Mushroom-style Stop Button				■
Single Phase or Three Phase Power	■	■		
Weatherseal				■

Many features are available as options on these models

## SAFETY BARRIER LIP

Pit-mounted, powered dock levelers can be equipped with an optional Safety Barrier Lips that provide a full-time 5" (127 mm) solid steel vertical barrier to prevent accidental forklift roll-off. The safety barrier lip is designed to be one of the strongest in the industry, capable of stopping a 10,000 pounds (4535.9 kg) at 4 mph (6.437 kph).

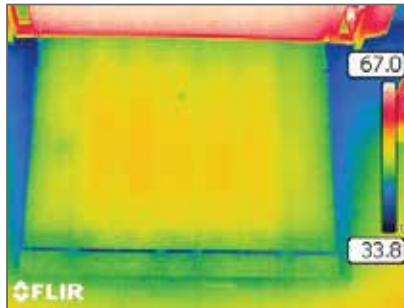


# GUARD AGAINST ENERGY LOSS

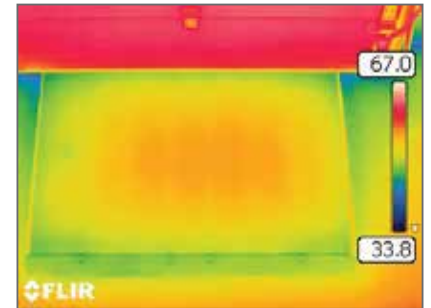
Energy Guard® prevents energy loss by providing a superior perimeter seal along the sides and rear of the leveler and blocks dirt, debris & insects from infiltrating the loading dock. The innovative design closes off the gaps between the dock leveler and concrete pit walls, preventing the mass flow of air into and out of the facility and minimizing energy loss. Energy Guard is a factory installed option available on all dock levelers.

## DESIGN ADVANTAGES

- Seal assemblies rotate rather than scrape the pit wall to reduce wear and increase effective life
- Expanded sealing range creates an effective perimeter seal up to 9" above dock level
- Rear hinge seal assembly's durable 2-ply material flexes during operation to block air flow at the rear
- Design leaves access to the pit clear for cleaning and dock leveler inspections
- Factory Installed – No field installation or pit mounted hardware
- Design avoids risk of fabric being cut, torn or damaged by trailers or debris resulting in expensive replacement
- Unrestricted access to pit for cleaning and dock leveler inspection. No curtains or fabric blocking access to the dock leveler and pit



**BEFORE:** Hot or cold air can easily transfer through perimeter gaps.



**AFTER:** ENERGY GUARD effectively seals off the perimeter gaps.

## DON'T JUST OBSERVE IT, LIVE THE EXPERIENCE.

Kelley leads the industry in specialty 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 Academy in Carrollton, Texas. The 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.



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