



# HK Series Hydraulic Dock Leveler

## Product Specifications



### DESIGN HIGHLIGHTS

- Patented SafeTFrame™ design
- Lug style lip hinge & lambda™ beam structure
- Hydraulic lip extension
- T.E.N.V. pump/motor assembly & regenerative hydraulics
- NEMA 4X rating push-button control panel (non-interlock capable)
- Single phase or three phase power
- Hydraulic velocity fuse safety stop
- Open subframe design
- Automatic retracting 60,000 lbs. (27.2 K kg) structural dock level support legs
- Full operating range toe guards
- Below-dock endloading capability
- 16" lip standard (406 mm)
- Fixed rear hinge - no pinch points
- Integral maintenance strut & lip support latch
- Heavy-duty B410-14F dock bumpers
- Reduced lip crown/extended lip chamfer

### AVAILABLE OPTIONS

- Non-metallic NEMA 4X rating control panel (interlock capable)
- HK option 1 package:
  - Automatic return-to-dock
  - Non-metallic NEMA 4X rating interlock capable control panel
- HK option 2 package:
  - Mushroom-style stop button
  - Independent hydraulic lip control
  - Non-metallic NEMA 4X rating interlock capable control panel
- HK option 3 package:
  - Option 2, plus:
  - Automatic return-to-dock
  - Weatherseal (brush only)
- Independent hydraulic lip control
- Brush weatherseal
- ENERGY GUARD® perimeter weatherseal system
- 24" pit conversion (607 mm)
- Spray foam insulated deck
- Abrasive surface
- 18" Lip (457 mm)
- 20" Lip (508 mm)
- Spray metalize (deck, lip & subframe)
- Special paint color
- Lip taper \_\_\_\_\_ (specify)
- High lip crown
- Pan option: For installation without preformed concrete pits, dock leveler supplied with integral pre-formed steel pan for pour-in-place construction. Dock leveler shall be in an enclosed steel pan structure complete with its own six-piece welded structural curb angles and concrete anchors. The dock leveler is to be concreted in place as the floor is poured.
- Other \_\_\_\_\_

### ACCESSORIES

- STAR® vehicle restraint \_\_\_\_\_
- HIDDEN HOOK™ recessed restraint
- MANUAL SURFACE CHOCK™ wheel restraint
- SURFACE CHOCK™ wheel restraint
- AUTO CHOCK® wheel restraint
- VERSACHOCK wheel restraint
- Digital master or combination control panel with HMI \_\_\_\_\_

### BUMPER OPTIONS

- B410-14       B610-14       B610-14F       VB420-11F
- VB420-11 Steel Faced       Other \_\_\_\_\_

### CAPACITY

- 30K lb (13.6K kg)       35K lb (15.8K kg)       40K lb (18K kg)
- 45K lb (20.4K kg)       50K lb (22.7K kg)

### PROJECT INFORMATION

JOB NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

GENERAL CONTRACTOR \_\_\_\_\_

DISTRIBUTOR \_\_\_\_\_

MODEL \_\_\_\_\_ QUANTITY \_\_\_\_\_

VOLTAGE/PHASE \_\_\_\_\_

### CERTIFIED FOR CONSTRUCTION

BY \_\_\_\_\_ DATE \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

1. **General:** "HK" series hinged lip dock leveler with hydraulic operated platform and hydraulic lip extension and retraction. Unit conforms to ANSI/MH14.1-1987 performance requirements. Unit to be manufactured by Kelley.
2. **Construction, Platform Assembly:** Platform constructed of unitized, robotically welded high tensile steel safety tread deck plate. Exclusive Lambda deck beams optimize twist resistance and stress distribution. Deck to be 1/4" (6.3 mm) thick on 30K-35K lb. (13.6K-20.4K kg) capacities and 5/16" (7.9 mm) thick on 40-50 K lbs. (18K-20.4K).
3. **Lip Assembly:** Lip to be 5/8" (16 mm) thick on 30K-35K lb. (13.6K-15.8K kg) capacities, and 1 1/4" (17.5 mm) on 40K-50K lb. (18K-22.7K kg) capacity units. Self-cleaning lug-style lip hinge. All units to be 16" (406 mm) high tensile steel safety tread lip plate with chamfered leading edge. Lip rod to be a minimum of 1" (25 mm) solid steel on all capacities.
4. **Lip Extension:** Automatic lip extension activated by independent hydraulic lip cylinder.
5. **Rear Subframe & Hinge:** Rear structural frame consists of a welded structure constructed from 4 structural angle vertical members connecting two horizontal members. The upper rear angle has longitudinal support gussets & additional deck supports to promote structural stiffness. The hinge system consists of four lugs allowing 4 inches (101 mm) of side to side deck twist.
6. **Power Unit:** Power unit is an electric hydraulic pump and valve assembly (remote mounting available).
7. **Electrical:** Available in 120/208/240 volt single phase or 208/240V/480V and 575V three-phase. Electrical system to include motor overload protection as standard. Power unit is mounted to unit subframe (elevated off pit floor).
8. **Hydraulic:** Main cylinder has minimum 4" (101 mm) diameter bore. Lip cylinder has minimum 2" (51 mm) diameter bore. All weather hydraulic fluid with viscosity of 15 cSt at 40°C (100°F). Totally enclosed, non-ventilated hydraulic pump and motor assembly with single hose per cylinder for longer life and lower maintenance costs.
9. **Control Panel:** Heavy-duty, NEMA 4X rating single push-button activation. Optional Automatic Return-to-Dock (A.R.T.D.) and interlocking with other dock equipment available for added capability.
10. **Product Finish:** Enamel green finish.
11. **Support Legs:** Automatic 60,000 lbs. (27.2K kg) structural dock level support legs. Drop tested to the full rated capacity of the dock leveler.
12. **Structural Center Deck Support:** Standard center beam support (5" (127 mm) structural channel) to reinforce leveler for 3-wheel lift truck traffic on 40K-50K lb. (18K-22.7K kg) capacities.
13. **Toe Guard Protection:** Full operating range toe guards with two galvanized sliding guards (yellow OSHA required markings per ANS/Z535.1) provided on the sides of the dock leveler.
14. **Integral Maintenance Strut & Lip Support Latch:** A permanently mounted support strut and lip lock are provided to support the lip and leveler during routine maintenance and pit cleaning.
15. **Float Compensating:** Allows for vertical carrier deflection when the lip is in contact with the truck bed.
16. **SafeTFrame™:** Adjustable front and rear leveling system eliminates the need for installer to place and weld steel shim stock under the vertical uprights. System provides more consistent installation and prevents a gap or "bump" between the rear transition angle and curb angle. The rear SafeTFrame system consists of four heavy-duty vertical uprights at the rear of the leveler, each with an adjustable 3"x3" (76mm x 76mm) pad that sits on the pit floor. Front SafeTFrame system includes an adjustment point on each front support pedestal accessed through the open lip hinge area. Both front pedestals and rear supports can be micro-adjusted independently through a 1 1/2" (38 mm) range using a 1/2" (12.7 mm) socket, compensating for even the worst pit conditions.
17. **Operation:** Kelley's "HK" Hydraulic Dock Leveler raises when "RAISE" button is pushed and held. Lip section hydraulically extends as ramp reaches top of travel. When button is released, ramp and lip lower to truck bed. After loading or unloading is complete, dock attendant pushes "RAISE" button to activate and raise the dock leveler. Dock attendant releases push-button and dock leveler and lip descend to stored position. Ramp may be lowered to fully supported below-dock leveler position without extending lip to service low trucks and endloads. 6' (1.83 m) and 8' (2.4 m) long models to have 12" (305 mm) above and 12" (305 mm) below-dock working range. Standard working range on 10' (3.05 m) long units is 18" (457 mm) above-dock and 12" (305 mm) below-dock.
18. **Installation:** Unit shipped completely assembled and ready for installation in pre-formed concrete pit. Pit depth is 20" (508 mm) for 6' (1.83 m) and 8' (2.4 m) long units, 24" (607 mm) for 10' (3.05 m) and 12' (3.7 m) long units. Pit construction to be in accordance with certified Kelley pit detail drawings. Control panel is furnished for remote mounting and is electrically interconnected by others. Contact Kelley for current cost and nearest distributor.
19. **Limited Warranty:** Limited lifetime(rated) lip hinge warranty. Limited 1-year parts and labor base warranty with an additional limited 4-years parts only warranty on hydraulic power unit and cylinders. Limited 10-year structural warranty available upon engineering approval of written application
20. **Bumpers:** Unit to include two heavy-duty dock bumpers model B410-14F (4" Thick x 14" W x 10" H) (101mm x 355mm x 254 mm).

NOMINAL DIMENSIONS		
MODEL	LEVELER WIDTH	LEVELER LENGTH
HK6X6	6' (1.83 m)	6' (1.83 m)
HK6.5X6	6'6" (2.01 m)	6' (1.83 m)
HK7X6	7' (2.13 m)	6' (1.83 m)
HK6X8	6' (1.83 m)	8' (2.44 m)
HK6.5X8	6'6" (2.01 m)	8' (2.44 m)
HK7X8	7' (2.13 m)	8' (2.44 m)
HK6X10	6' (1.83 m)	10' (3.05 m)
HK6.5X10	6'6" (2.01 m)	10' (3.05 m)
HK7X10	7' (2.13 m)	10' (3.05 m)



SafeTFrame for greater structural strength & durability



**Kelley**  
 1612 Hutton Drive, Suite 140  
 Carrollton, TX 75006  
 800.558.6960  
[www.kelleydocksolutions.com](http://www.kelleydocksolutions.com)