

HYDRAULIC SPECIFICATIONS

HK SERIES DOCK LEVELER



Design Highlights

- Patented SafeTFrame™ Design
- Lug Style Lip Hinge & Lambda™ Beam Structure
- Hydraulic Lip Extension
- T.E.N.V. Pump/Motor Assembly
- Nema 4X 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. (27,215 kg) Structural 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

Project Information

Job Name _____
 Address _____
 General Contractor _____
 Distributor _____
 Model _____ Quantity _____ Voltage/Phase _____

Certified For Construction

By _____
 Company _____
 Address _____
 Date _____



Available Options

- Non-Metallic Interlock Capable Control Panel
- HK Option 1 Package:
 - Automatic Return-to-Dock
 - Non-Metallic Interlock Capable Control Panel
- HK Option 2 Package:
 - Mushroom-style Stop Button
 - Independent Hydraulic Lip Control
 - Non-Metallic Interlock Capable Control Panel
- HK Option 3 Package:
 - Same Features as Option 2, Plus:
 - Automatic Return-to-Dock
 - Weatherseal (Brush Only)
- Independent Hydraulic Lip Control
- Brush Weatherseal
- ENERGY GUARD® Perimeter Weatherseal System
- 18" Lip (457 mm)
- 20" Lip (508 mm)
- Spray Metalized (Deck, Lip & Subframe Only)
- Special Paint Color
- Lip Taper _____ (specify)
- High Lip Crown
- Pan Option:
 - For installation without pre-formed 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 _____



Pan Option

Accessories

- STAR® Vehicle Restraint _____
- HIDDEN HOOK™ Recessed Restraint
- MANUAL SURFACE CHOCK Wheel Restraint
- SURFACE CHOCK™ Wheel Restraint
- AUTO CHOCK® Wheel Restraint
- Master or Combo Control Panel _____

Bumper Options

- B410-14 VB420-11F
- B610-14 VB420-11 Steel Faced
- B610-14F Other _____

Capacity

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

HK SERIES DOCK LEVELER HYDRAULIC SPECIFICATIONS

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 requirements. Unit to be manufactured by Kelley.

2. Construction, Platform Assembly: Platform constructed of unitized, robotically welded high tensile steel safety tread plate. Exclusive Lambda deck beams optimize twist resistance and stress distribution. Deck to be 1/4" (6.3 mm) thick on 30K-45K lb. (13.6K-20.4K kg) capacities and 3/8" (9 mm) thick on 50K lb. (22.7K kg).

3. Lip Assembly: Lip to be 5/8" (16 mm) thick on 30K-35K lb. (13.6K-15.8K kg) capacity units and 1 1/16" (17.5 mm) thick on 40-50K 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 3/4" (19 mm) thick 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 (can be remote mounted.)

7. 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.

8. Power Unit: Power unit is an electric hydraulic pump and valve assembly (remote mounting available).

9. 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).

10. 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 (T.E.N.V.) hydraulic pump and motor assembly with single hose per cylinder for longer life and lower maintenance costs.

11. Control Panel: Heavy-duty, single push-button activation. Optional Automatic Return-to-Dock (A.R.T.D.) and interlocking with other dock equipment available for added safety.

12. Product Finish: Enamel green finish.

13. Safety Legs: Automatic 60,000 lbs. (27.2K kg) structural dock level support legs. Drop tested to the full rated capacity of the dock leveler.

14. 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.

15. Toe Guard Protection: Full operating range toe guards with two galvanized sliding guards (yellow OSHA required markings per ANSI/Z535.1) provided on the sides of the dock leveler.

16. 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.

17. Float Compensating: Allows for vertical carrier deflection when the lip is in contact with the truck bed.

18. 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 level position without extending lip to service low trucks and endloads.

19. 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. Contact Kelley for current cost and nearest distributor.

20. 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.

21. 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	WIDTH	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)

