



HK-S Series Hydraulic Dock Leveler

Product Specifications



DESIGN HIGHLIGHTS

- Exclusive SafeTFrame™ design
- 5" (127 mm) steel safety barrier lip design rated to 10,000 lbs. (4.5k kg) at 4 mph (6.43 kph)
- 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 leveler 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 control panel (interlock capable)
- 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:
 - 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 metalize (deck, lip & subframe)
- Automatic return-to-dock
- 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. 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

- 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 _____

COMPANY _____

ADDRESS _____

DATE _____

1. **General:** "HK-S" series dock leveler to be complete package, including unitized motor and pump assembly, integral support strut and lip lock, full operating range toe guards, and two heavy duty dock bumpers as standard. Unit conforms to ANSI MH14.1-1987 performance requirements. Unit to be manufactured by Kelley.
2. **Construction, Platform Assembly:** Platform to be 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 5/16" (7.9 mm) thick on 40K-50K lb. (18K-22.7K kg) capacities.
3. **Lip Assembly:** Lip to be 1/4" (17.5 mm) on 40K-50K lb. (18K-22.7K kg) capacities. Self-cleaning lug-style lip hinge with full-time solid steel 5" (127 mm) vertical barrier prevents accidental forklift roll-off. 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 (102 mm) of side to side deck twist.
6. **Power Unit:** 1 hp T.E.N.V. unitized hydraulic pump and motor assembly.
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 with minimum 4" (102 mm) diameter bore. Lip cylinder with minimum 2" (51 mm) diameter piston. 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.
9. **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 capability.
10. **Product Finish:** Enamel green finish.
11. **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.
12. **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.
13. **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.
14. **Float Compensating:** Allows for vertical carrier deflection when the lip is in contact with the truck bed.
15. **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 76 mm) 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" (38.1 mm) range using a 1/2" (12.7 mm) socket, compensating for even the worst pit conditions.
16. **Operation:** Kelley's "HK-S" 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 with endloads.
17. **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 and 24" (607 mm) for 10' (3.05 m) long units. Pit construction to be in accordance with certified Kelley pit detail drawings. Contact Kelley for current cost and nearest distributor.
18. **Limited Warranty:** Limited parts & labor warranty on all components under normal use for a 1-year "Base Warranty Period" beginning on the completion of installation or the sixtieth (60th) day after shipment, whichever is earlier. Additional limited 4-year parts only warranty on hydraulic power unit and cylinders. Limited prorated 10-year structural warranty available upon engineering approval of written application.
19. **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



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