



# HRL Rail Leveler

## Product Specifications



### DESIGN HIGHLIGHTS

- Leveler Powered Down to Working Range via Constant Pressure Push-Button
- "Quick Cycle" Powered-In/Powered-Out Hydraulic Lip Activation
- 20" Lip Standard (508 mm)
- Steel NEMA 12 Control Panel (Interlock Capable) with Raise, Lower, Lip In, Lip Out, Mushroom-style Stop, Amber and Green Illuminated Operation Indicator Lights (Optional side shift control)
- Integrally Mounted Power Unit, Valves and Solenoids
- Manual Side Shift Capability
- Amber Pilot Light Indicates Power On
- 6" High Runoff Guards (152.4 mm)
- Structural Channel Deck Beams
- Integral Maintenance Lock Bar with Lock-Out/Tag-Out Capability
- Includes Endloading Capability

### AVAILABLE OPTIONS

- Hydraulic Side Shift
- Lockable Key Switch on Control Station
- Remote Hand Held Push Button Station
- Remote Power Pack
- Additional Embedded Rail Lengths (10'/3.05 m) \_\_\_\_\_ (specify qty)
- Abrasive Deck Surface
- Special Paint Color
- Flush Mount Track Assembly
- Lip Taper \_\_\_\_\_ (specify)
- Other \_\_\_\_\_ Note: Curve Track Consult Factory

### ACCESSORIES

- Master Control Panel
- Combination Control Panel
- Other \_\_\_\_\_

### CAPACITY

- 45K lb (20.4K kg)
- 50K lb (22.7K kg)
- 60K lb (27.2K kg)

### PROJECT INFORMATION

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

ADDRESS \_\_\_\_\_

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

DISTRIBUTOR \_\_\_\_\_

MODEL \_\_\_\_\_

QUANTITY \_\_\_\_\_

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

### CERTIFIED FOR CONSTRUCTION

BY \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

DATE \_\_\_\_\_

- General:** "HRL" Series Rail Leveler with hydraulic operated platform and hydraulic lip extension and retraction. Unit conforms to OSHA and ANSI/MH14.1 1987 performance requirements. Unit to be manufactured by Kelley.
- Construction, Platform Assembly:** Platform constructed of high tensile steel safety tread deck plate supported by high tensile channel beam design construction on 45K lb. (20,411 kg) and 50K lb. (22,679 kg) units and structural I-beams on 60K lb. (27,215 kg) units. Structural members fully welded to front header. Deck to be  $1/4"$  (6.3 mm) thick on 45K lb. (20.4K kg) capacity units and  $3/8"$  (9.5 mm) thick on 50K lb. (22.7K kg) and 60K lb. (27.2K kg) capacity units.
- Lip Assembly:** Lip to be 20" (508 mm) high tensile steel safety tread lip plate with beveled leading edge. Lip to be  $5/8"$  (16 mm) thick on 45K lb. (20.4K kg) and  $3/4"$  (19 mm) on 50K lb. (22.7K kg) and 60K lb. (27.2K kg) capacity units. Lip hinge to have full width structural front header and heavy wall tubing with a minimum of  $1/2"$  (12.7 mm) wall thickness on 45K lb. (20.4K kg) and 50K lb. (22.7K kg) and  $3/4"$  (19 mm) wall thickness on 60K lb. (27.2K kg) capacity units. Lip hinge shaft is to be a minimum of 1" (25.4 mm) solid steel on 45K lb. (20.4K kg) and 50K lb. (22.7K kg) and  $1-1/4"$  (32 mm) on 60K lb. (27.2K kg) capacity units.
- Deck Extensions:** All units will be equipped with two steel deck extension arms to be used during end load operations. The arms are a minimum of 1" (25.4 mm) wide by 5" (127 mm) tall structural steel and extend to provide deck support during end load operations. The arms will be provided with a locking feature to lock them at any extension length.
- Carriage Assembly:** Structure utilizes sealed roller bearing wheels to enable side to side movement of vertically stored dock leveler along a track assembly. Structure to support rear hinge assembly, lower main cylinder mount and power pack. Structure to be minimum 60,000 lbs. (27.2K kg) capacity. Rear hinge assembly to utilize 4 rear hinge pins on 45K and 50K lb. (20.4K-22.7K kg) capacity units and 6 pins on 60K lb. (27.2K kg) capacity units. All pins to be a minimum of 1" (25.4 mm) diameter.
- Track Assembly:** Two heavy steel tracks mounted on an embedded structural channel. Minimum 60,000 lbs. (27,215 kg) capacity.
- Power Pack:** Power pack is an electric/hydraulic motor pump and valve assembly. (Can be remote mounted.)
- Electrical:** Motor is 1 h.p., NEMA Standard T.E.N.V./56C frame. Standard motor voltages available are 240V single phase or 208/240V/480V and 575V three phase. RPM: 3450. Control panel has built-in motor overload protection as standard. Optional remote solenoid valves and power pack supplied with standard wall mount bracket.
- Hydraulic:** Main cylinder minimum  $3-1/2"$  (88.9 mm) diameter bore. Lip cylinder to be a minimum of  $2-1/2"$  (63.5 mm) diameter bore. All weather hydraulic fluid with viscosity of 15 cSt at 40°C (100° F).
- Side Shift:** Mechanical side shift standard. Hydraulic side shift upon request.
- Control Panel:** NEMA 12, thermal overload, UL approved. Mushroom-style STOP button. Independent controls for raise, lip extend and lip retract. (Optional side shift control) Amber and green pilot lights indicate power and safe operation respectively.
- Product Finish:** Waterborne air dry direct to metal enamel green paint.
- STOP Button:** Will stop the leveler instantly when depressed at any time to help prevent an accident. The STOP button disconnects power to the solenoid valve on the leveler. The dock attendant does not have to continuously hold the STOP button to maintain the leveler in a "stop" position.
- Quick Cycle Lip:** Properly sized cylinders and the LIP EXTEND/LIP RETRACT button ensure quickest leveler cycle time by not having to fully raise the unit to extend or retract the lip.
- Projection:** Unit to project a maximum of 14" (355 mm) from dock face when in the vertical stored position (lip vertical).
- Float Compensation:** Allows for vertical deflection when lip is in contact with rail car bed.
- Operation:** Kelley's "HRL" Hydraulic Rail Leveler will be supplied with a carriage assembly, a track assembly, a platform and lip assembly, an electrical power-pack assembly including motor and pump, and a hydraulic final assembly including cylinders, hosing and valving. Platform and Lip to be operated by independent hydraulic cylinders controlled by a remote push button station. To operate leveler dock attendant pulls the "STOP" button (amber light indicates power on) on control panel. Attendant pushes and holds "LOWER" button to lower leveler onto the railcar floor. Audible alarm will sound anytime leveler is stopped between stored position and operating range. Above operating range, while motor is running, releasing the "LOWER" button will stop all leveler motion. Pressing the "STOP" button at any time will immediately stop all movement. When leveler lowers to near operating range, the motor will stop and the platform will automatically float down to rest on the rail car floor. The green light will illuminate to indicate the leveler has reached the operating range. Pressing the "LIP EXTEND" or "LIP RETRACT" button will extend or retract the lip at any point in the leveler cycle. Rail leveler is restored by pressing the "RAISE" button and holding until the platform and lip are in their vertical storage positions. (Lip must be in vertical position). To perform an end load the dock attendant pulls the "STOP" button and then presses the "LOWER BUTTON" to lower the leveler. Once the unit has descended partially, the attendant presses the "LIP RETRACT" button, retracting the lip to a pendant position. The attendant then lowers the unit to several inches above the rail car bed, pushes the "STOP" button and while standing on the unit (supported hydraulically), manually extends the support arms to the desired length. With the arms correctly positioned, the attendant pulls the "STOP" button and then allows the unit to float down to the rail car floor. The leveler will have 6" above and 6" below dock operating range maximum, independent of leveler length.
- Installation:** Unit shipped partially assembled. Track assembly supplied by Kelley is embedded at site by mounting carriage assembly to the track assembly and then mounting the deck/lip assembly and the power unit to the carriage. Hydraulic components on deck/lip are pre installed, enabling easy power pack hook up. Control panel for remote mounting is furnished with unit to be electrically interconnected by others. Installation by others unless specifically contracted for with Kelley.
- 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.

NOMINAL DIMENSIONS		
MODEL	LEVELER WIDTH	LEVELER LENGTH
HRL86	8', 8'6", 9' (2.4, 2.6, 4.7 m)	8'6" (2.6 m)
HRL90	8', 8'6", 9' (2.4, 2.6, 4.7 m)	9' (2.75 m)
HRL96	8', 8'6", 9' (2.4, 2.6, 4.7 m)	9'6" (2.9 m)
HRL10	8', 8'6", 9' (2.4, 2.6, 4.7 m)	10' (3.05 m)
HRL106	8', 8'6", 9' (2.4, 2.6, 4.7 m)	10' (3.20 m)



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