VH Series Hydraulic Leveler

Specification Sheet & Submittal

25K - 80K	6’ - 7’	6’ - 12’
CIR	WIDTH	LENGTH

Standard Features

Fluid logic block	Translucent reservior
Internal tamerproof velocity fuse	Below dock end loading capability
Low pressure hollow ram hoist cylinder	CleanSweep frame design
Push-button activation	Four-sided box construction deck assembly
Retractable lip cylinder	Lockout/tagout maintenance strut
Safety yellow full-range toe guards	Night locks/cross traffic support
Structural support members	Designed and manufactured in the USA

General Description

All Poweramp® VH Series dock levelers incorporate the use of hydraulics to raise and lower both the platform and lip. A single push button activates a hydraulic pump for operating both lip and hoist cylinders. Systems, LLC is an active member of Loading Dock Equipment Manufacturers (LODEM), a product section of the Material Handling Industry. Unit conforms to OSHA, and is manufactured in compliance with the American National Standard of Safety Performance and Testing of Dock Leveling Devices (ANSI) MH 30.1. unit manufactured by Systems, LLC.

Standard Operation Features

The VH Series Leveler is controlled remotely from wall mounted control panel. An array of optional control panel features are available. Service range is from 12” above to 12” below dock level. Lip keepers welded to frame members provide nighttime security and cross-traffic support. Full operating range toe guards are provided as standard. Maintenance prop with ‘Lock-out Tag-out’ capability is provided as standard. Factory finish includes rust inhibitive prime coat industrial grade finish. Special coating and colors are optional. Each VH Series leveler is shipped with two (2) (B410-14) 4½”thick x 10”h x 14”w laminated bumpers as standard. 6” thick bumpers are provided as standard on 60,000 lb and 80,000 lb CIR.

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Construction

The platform is constructed of ¼" thick 4-way high strength, low alloy 50,000 minimum yield A572 steel safety treadplate. A 3/8" treadplate is used on the 80,000 lb Comparative Industry Rating (CIR) units. Platform is reinforced and supported by full-length structural "C" channels and/or "I" beams. Front and rear header plate is of either ½" x 7" or ½" x 8" hot rolled steel. Poweramp VH Series lips are made of 4-way safety treadplate, the 25,000 lb CIR are 1/2" thick, the 30,000, 35,000 and 40,000 lb CIR are 5/8" thick, and the 45,000 50,000 and 60,000 lb CIR are 3/4" thick. Lip-plates for the 80,000 lb CIR units are 1" T1 smooth plate with non-skid abrasive coating. Standard lip length 16" on 25,000, 30,000, 35,000, 40,000, 45,000, & 50,000 CIR, 18" on 60,000, and 80,000 lb CIR. Hinge tubes are 1 3/4" OD x 5/16" wall, 1 7/8" x 3/8" wall, 2 1/8" x ½" wall, 2 5/8" x 3/4" wall, or 3 1/8" x 1" wall depending upon CIR. All lip hinge pins are 1" M1044 steel. Steel lip gusset are standard on 50,000, 60,000 and 80,000 lb CIR models. Steel header gussets are standard on all models 35,000 lb CIR and above. All platforms are designed to compensate for up to 4" of canted truck beds.

Hydraulics

Fluid Logic block is a close-grained ductile casting with precision machined "logic" paths and ports for control of all hydraulic functions. Hoist cylinder is 3 ½" hard chrome-plated hollow ram design. Lip operation is controlled by a cylinder having a 2 ½" ID bore and is fully yieldable. Lip cylinder is nickel plated for extended durability. Every hoist cylinder is equipped with an integral tamperproof velocity safety stop to limit free fall of loaded platform to 3"(±1"). Hydraulic system is designed to operate at low pressures from 275 to 325 psi. Elevated, frame mounted pump and motor assembly keeps clear of debris accumulation in pit.

Electrical

Hydraulic pump motor either 1½HP TENV at 120v or 208v, single phase or at 208v, 230v, 460v, or 575v three phase. Electrical control panel is Nema 12 enclosure for single push-button, or NEMA 4X for iDock® Controls. All electrical components, connections and wiring are UL listed or recognized. Please Note: Unless specifically noted on quotation, all electrical requirements are the responsibility of others.

Warranty

All Poweramp VH Series models feature a full one (1) year base warranty on all structural, hydraulic and electrical parts, including freight and labor charges in accordance with Systems, LLC's Standard Warranty Policy. Structural and hydraulic components carry an additional full four (4) year extended warranty with parts and labor. Systems, LLC warrants all components to be free of defects in materials and workmanship, under normal use, during the warranty period. This base warranty period begins upon the completion of installation or the sixtieth (60th) day after shipment, whichever is earlier. Additional warranty extensions may be available upon approved submittal of application information.

Order Specifications

Dimensions and Capacities

Select a Model and a Capacity

MODEL / NOMINAL SIZE		CIR (Comparative Industry Rating)
☐ VH-66	6' x 6'	☐ 25,000 CIR
☐ VH-68	6' x 8'	☐ 30,000 CIR
☐ VH-610	6' x 10'	☐ 35,000 CIR
☐ VH-612	6' x 12'	☐ 40,000 CIR
☐ VH-656	6'6" x 6'	☐ 45,000 CIR
☐ VH-658	6'6" x 8'	☐ 50,000 CIR
☐ VH-6510	6'6" x 10'	☐ 60,000 CIR
☐ VH-6512	6'6" x 12'	☐ 80,000 CIR
☐ VH-76	7' x 6'	
☐ VH-78	7' x 8'	
☐ VH-710	7' x 10'	
☐ VH-712	7' x 12'	

Optional Equipment

Check Options Desired

- ☐ PowerHook® Restraint (S.C.)
- ☐ TPR® Restraint
- ☐ TPR UniLock® Restraint
- ☐ PowerStop® Restraint (manual) (S.C.)
- ☐ PowerStop® Restraint (automatic) (S.C.)
- ☐ UniChock™ Restraint
- ☐ UXL Restraint
- ☐ Grease Fittings
- ☐ Light Communication System
  - ☐ Dock Alert (NEMA12)
  - ☐ iDock 1.0 Alert
  - ☐ iDock 2.0 Alert
- ☐ Integrated Control Panel
- ☐ 5" Barrier Lip (smooth style)
- ☐ Lip Extend Only Button
- ☐ Mushroom Style E-Stop Button
- ☐ Combo Lip Ext/Leveler Stop Button
- ☐ 18" Lip
- ☐ 20" Lip
- ☐ Pit Steel (6 piece curb angle set)
- ☐ Pit Steel (4/angle,2/bumper)
- ☐ Pit Kit (3 sided)
- ☐ Pan Unit (4 sided)
- ☐ Foam Insulation
- ☐ Special Color_____
- ☐ Clean Sweep Frame
- ☐ Brush Weather seal
- ☐ Rubber Weather seal
- ☐ CentraPower
- ☐ Vertical Bumpers (laminated)
- ☐ ☐ VB420-11 ☐ VB424-11
- ☐ 6" Thick Dock Bumpers
- ☐ Wheel Chocks Model #_____
- ☐ Dock Light (no bulb) Model #_____
- ☐ 3-wheel Fork Truck Protection

Required Information

CUSTOMER	
JOB	
LOCATION	
NUMBER OF UNITS	
MODEL	
SIZE	
REPRESENTED BY	
SALES REP	

Certified for Construction

BY	
DATE	
COMPANY	
CITY & STATE	
VOLTAGE / PHASE	
DRAWING #	

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Consistent with our policy of continuing product improvement, we reserve the right to change product specifications without notice or obligation.
A continuing product improvement process is in effect at Systems, LLC. We reserve the right to make product changes without prior notice.