

## VH Series Hydraulic Dock Leveler Specification Sheet and Submittal



*Controller type and size vary  
with options*

### STANDARD FEATURES FOR THE VH SERIES HYDRAULIC DOCK LEVELER

- Push Button Control Box
- Structural Steel Support Members
- Fluid Logic Block
- Hollow Ram Hoist Cylinder
- Automatic Retracting Lip Cylinder
- Low Pressure Hydraulic System
- Integral Tamperproof Velocity Safety Stop
- Lockout Tagout Maintenance Strut
- Night Locks/Cross Traffic Support
- 3-wheel Fork Truck Protection
- Overhead Door Interlocks (Dry Terminal)
- Full Range Toe Guards
- B410-14 Laminated Bumpers
- Made in the USA



# VH Series Hydraulic Dock Leveler Specification Sheet

**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.

**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.

**STANDARD OPERATIONAL 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.

**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.

## Optional Equipment for VH Series Hydraulic Dock Levelers (Check options desired)

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

## Dimensions and Capacities Select a Model and a Capacity

MODEL - NOMINAL SIZE	DYNAMIC CAPACITY / COMPARATIVE INDUSTRY RATING
<input type="checkbox"/> VH-66 6' x 6'	<input type="checkbox"/> 12,500/25,000
<input type="checkbox"/> VH-68 6' x 8'	
<input type="checkbox"/> VH-610 6' x 10'	<input type="checkbox"/> 15,000/30,000
<input type="checkbox"/> VH-612 6' x 12'	
<input type="checkbox"/> VH-656 6'6" x 6'	<input type="checkbox"/> 17,500/35,000
<input type="checkbox"/> VH-658 6'6" x 8'	
<input type="checkbox"/> VH-6510 6'6" x 10'	<input type="checkbox"/> 20,000/40,000
<input type="checkbox"/> VH-6512 6'6" x 12'	<input type="checkbox"/> 22,500/45,000
<input type="checkbox"/> VH-76 7' x 6'	<input type="checkbox"/> 25,000/50,000
<input type="checkbox"/> VH-78 7' x 8'	
<input type="checkbox"/> VH-710 7' x 10'	<input type="checkbox"/> 30,000/60,000
<input type="checkbox"/> VH-712 7' x 12'	<input type="checkbox"/> 40,000/80,000

Customer: \_\_\_\_\_

Job: \_\_\_\_\_

Location: \_\_\_\_\_

Number of Units: \_\_\_\_\_

Model: \_\_\_\_\_

Size: \_\_\_\_\_

Represented By: \_\_\_\_\_

SalesRep: \_\_\_\_\_

Certified For Construction:

By: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

City & State: \_\_\_\_\_

Voltage/Phase: \_\_\_\_\_

Drawing #: \_\_\_\_\_

A continuing product improvement process is in effect at Systems, LLC. We reserve the right to make product changes without prior notice.

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