

# Vertical Storing Dock Leveler Specification Sheet and Submittal



VS Series, 6' x 5', 40,000 CIR, frame with remote motor shown



Controller type and size vary  
with options

## STANDARD FEATURES FOR THE VS SERIES HYDRAULIC DOCK LEVELER

- Full Featured Push Button Control Box
- Structural Steel Support Members
- Power-Up and Power-Down Control
- Free Float Working Range
- Mechanical Storage Locking Mechanism provides Redundant Safety
- Push Button Release of Storage Prop
- Dual Maintenance Prop
- 3" High Run-off Guards
- 10" Above, 8" Below Dock Service Range
- Overhead Door Interlocks (Dry Terminal)
- Rear Embed Channel with Factory Installed Hinges
- Two (2) VB420-11 Laminated Dock Bumpers



# VS Series Hydraulic Dock Leveler Specification Sheet

**GENERAL DESCRIPTION:** Poweramp VS Series Vertical Storing dock levelers store vertically inside the building. The overhead door closes in front of the leveler substantially reducing energy loss often associated with a conventional pit style leveler. The VS Series leveler is ideal for the food industry where access and clean-up of the dock area is critical. Vertical storing levelers also act as a barrier protecting overhead doors from damage.

Poweramp's VS Series dock levelers incorporate the use of hydraulics to raise and lower both platform and lip. A multiple push button station permits independent raising of the deck, lowering of the deck, extending the lip and retracting the lip. 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 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 1/4" thick 4-way high strength, low alloy, 50,000 minimum yield A572 steel safety treadplate. Platform is reinforced and supported by full-length structural "C" channels and wide flanged "I" beams. Front and rear header plate is 1/2" thick, hot rolled steel. Lip plate is constructed using 4-way safety treadplate. 30,000, 35,000, and 40,000 lb Comparative Industry Rating (CIR) are 5/8" thick, the 45,000 and 50,000 lb CIR are 3/4" thick. Hinge tubes are 1 7/8" x 3/8" wall or 2 1/8" x 1/2" wall with 1" M1044 steel hinge pin depending on capacity. All platforms are designed to compensate for up to 4" of canted truck beds.

**HYDRAULICS:** A fixed displacement gear pump delivers fluid to the hoist and lip cylinder. Hydraulic system can be deck mounted or installed in remote location. Hydraulic system can also be integrated to power the vehicle restraint system if equipped. Hoist cylinder is 3.5" ID bore with anti-corrosion rod coating. Lip operation is controlled by a cylinder having a 2 1/2" ID bore. Lip cylinder is nickel plated for extended durability. Hoist cylinder is equipped with a flow control valve which meters the decent of the ramp.

**STANDARD OPERATION FEATURES:** Infinite control of the leveler and lip are standard with our multiple push button station. Power-up and power-down "dead man" control features enhance operator control and safety. A mechanical prop-kicker provides redundant safety while leveler is in the stored positions. Push button release of the mechanical prop-kicker is accomplished with a trombetta solenoid valve. Free float of the lever in the "working range" reduces the potential hazards associated with safely transitioning wheeled equipment with a non-floating power down system. An extended service range of 10" above dock and 8" below dock is standard on all 5' and 6' long units. A 12" above and below dock service range is available on 8' long units. 3" high run-off guards are standard on all platforms. Dual maintenance props are provided with each ramp for safe, long term, storage of ramp during installation or servicing or equipment. Factory finish includes rust inhibitive prime coat industrial grade finish. Each VS Series leveler is shipped with two (2) VB420-11, 4 1/2" thick 20" x 11" w dock bumpers. Optional bumper risers and load distribution plates are available.

**ELECTRICAL:** Electrical pump and motor are either 1 1/2 HP TENV at 120v or 208v single phase or 208v, 230v, 460v or 575v three phase. Electrical control panel is NEMA 12 enclosure. All 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 VS 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.

| Dimensions and Capacities<br>Select a Model and a Capacity |           |  |
|--|-----------|--|
| MODEL - NOMINAL SIZE                                       |           | DYNAMIC CAPACITY / COMPARATIVE INDUSTRY RATING |
| <input type="checkbox"/> VS-65                             | 6' x 5'   | <input type="checkbox"/> 15,000/30,000         |
| <input type="checkbox"/> VS-66                             | 6' x 6'   |  |
| <input type="checkbox"/> VS-68                             | 6' x 8'   | <input type="checkbox"/> 17,500/35,000         |
| <input type="checkbox"/> VS-655                            | 6'6" x 5' |  |
| <input type="checkbox"/> VS-656                            | 6'6" x 6' | <input type="checkbox"/> 20,000/40,000         |
| <input type="checkbox"/> VS-658                            | 6'6" x 8' |  |
| <input type="checkbox"/> VS-75                             | 7' x 5'   | <input type="checkbox"/> 22,500/45,000         |
| <input type="checkbox"/> VS-76                             | 7' x 6'   | <input type="checkbox"/> 25,000/50,000         |
| <input type="checkbox"/> VS-78                             | 7' x 8'   |  |

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

- |  |  |
|--|--|
| <input type="checkbox"/> PowerHook® Restraint (S.C.)             | <input type="checkbox"/> Remote Mounted Motor                                  |
| <input type="checkbox"/> TPR® Restraint                          | <input type="checkbox"/> CentraPower   |
| <input type="checkbox"/> TPR UniLock® Restraint                  | <input type="checkbox"/> Hoist Cylinder Embed Plate                            |
| <input type="checkbox"/> PowerStop® Restraint (manual) (S.C.)    | <input type="checkbox"/> Gusseted Bumper Brackets with Load Distribution Plate |
| <input type="checkbox"/> PowerStop® Restraint (automatic) (S.C.) | <input type="checkbox"/> Vertical Bumpers (laminated)                          |
| <input type="checkbox"/> UniChock™ Restraint                     | <input type="checkbox"/> VB420-11 <input type="checkbox"/> VB424-11            |
| <input type="checkbox"/> Grease Fittings                         | <input type="checkbox"/> 6" Thick Dock Bumpers                                 |
| <input type="checkbox"/> Lip Keepers                             | <input type="checkbox"/> Steel Faced Dock Bumpers                              |
| <input type="checkbox"/> 18" Lip                                 | <input type="checkbox"/> Wheel Chocks Model # _____                            |
| <input type="checkbox"/> 20" Lip                                 | <input type="checkbox"/> Dock Light (no bulb) Model # _____                    |
| <input type="checkbox"/> Integrated Control Panel                | <input type="checkbox"/> Other _____   |
| <input type="checkbox"/> iDock Alert Communication System        | <input type="checkbox"/> Other _____   |
| <input type="checkbox"/> Deck Mounted Motor                      | <input type="checkbox"/> Other _____   |

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

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

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

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

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

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

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

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

Certified For Construction:

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

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

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

City &amp; 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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