KV - VERTICAL DOCK LEVELER
ARCHITECTURAL DATA SHEET

ALAPONT LOGISTICS SOLUTIONS USA

The Vertical Dock stores vertically inside the building. The overhead door closes in front of the leveler reducing energy loss often associated with a conventional pit style leveler. It also act as a barrier protecting overhead doors from damage. ASL's vertical dock levelers features a folding lip that allows for perfect adaptation of the lip to the truck. Our Vertical Dock leveler provide enhanced cleanliness, protection for overhead doors, heightened security, increased productivity, and simplified maintenance.

IDEAL APPLICATION

Places that require strict temperature control and high levels of cleanliness, as the food industry.

STANDARD FEATURES

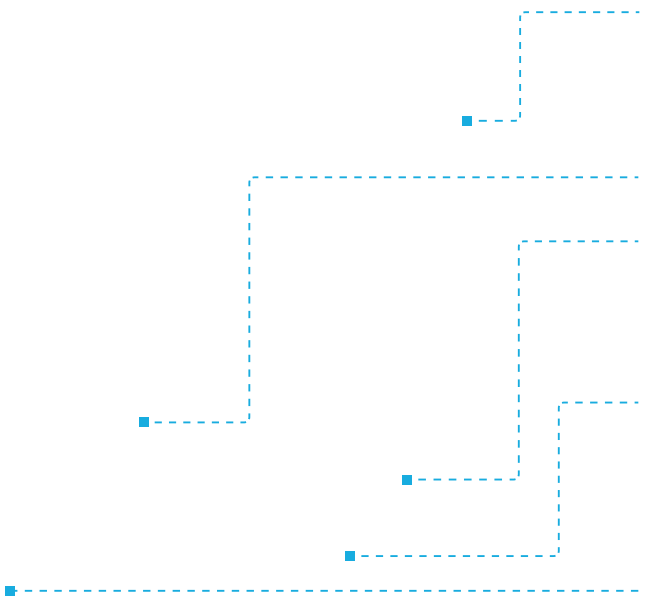
- **Black Lacquered paint RAL 9005.**
- **Anti-corrosion treatment and powder painted with oven-polymerized paint at 392 °F.**
- **10" Above, 8" Below Dock Service Range.**
- **Full Featured Push Button Control Box.**
- **Structural Steel Support Members.**
- **Power-Up and Power-Down Control.**
- **3" High Run-off Guards.**

STANDARD CAPACITIES

35.000 Lbs

60.000 Lbs

All standard models can be manufactured with all load capacities.



RUN-OFF GUARDS
Prevent forklifts from driving off side of leveler.

SENSOR INDICATING POSITION

NON-RETURN VALVE
Prevents the platform from falling in the event of the rupture of a hose or failure of the hydraulic solenoid.

SENSOR
That enables the constant levelling of the dock on the HGV facilitating loading and avoiding harsh knocks during transport.

MAINTENANCE LOCKING BAR
With lockout pin prevents use while maintenance or cleaning is in process.

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APPLICATION

Truck doors can be opened from inside the building, avoiding the break in the cold chain and facilitating the operations at the logistics center.



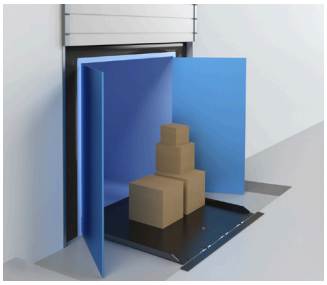
1 Vertically stored center, allowing the overhead door to remain closed, providing a tight seal.



2 Trailer doors can re-main closed and the truck driver does notneed to get out of the cab.



3 Dock attendant opens the trailer doors inside of the building and lowers the leveler into position.



4 The loading and unloading process takes place like a standard pit-mounted leveler.

TECHNICAL DATA

CONSTRUCTION

PLATFORM	• Constructed of1/4" diamond plate.
	• Reinforced by (Depending on the Capacity of the Dock)
	  • < 35.000 Lbs: Heavy duty U-beam. Quality: 235
	  • > 35.000 Lbs: Heavy duty HEB beam. Quality: 235
	• Hinges: reinforced with plates and 1" shaft ensure maximum strength
	• Operating Range (Depends on the Lenght of the Dock): +-10" or +- 12"

LIP PLATE	• Made of 1/2" diamond plate. • Projection: 16", 18" or 20" • Lip hinges: reinforced with plates and has a 1" shaft.

HYDRAULICS

GENERAL OPERATION	• Hoist cylinder with velocity fuse + Folding lip cylinder, guaranteeing safe operation • Power: 1,1 kw Hydraulic System powered by dual-cylinder hydraulics for efficient lifting and lowering. A fixed displacement gear pump delivers fluid to the hoist cylinder (2" ID bore) and lip cylinder. Hydraulic system can be deck mounted or installed in remote location. Hydraulic system can also be inte-grated to power the vehicle restraint system if equipped.It is completely sealed to prevent entry of dirt, dust, or sand.

ELECTRICAL

VOLTAGE OPTIONS	220V/3 Ph/60Hz / 380V/3 Ph/60Hz / 460V/3 Ph/60Hz
CONTROL PANEL	• Option 1: Simple • Option 2: Full Equipment Control Panel
CERTIFICATIONS	All components, connections and wiring are UL Listed or recognized.
ACTIVATION	Single push button activates the hydraulic pump for operating both lip and hoist cylinders
PROTECTION	IP 64
EQUIPPED WITH	Enclosure, Startup Indicator Light, Control Device.

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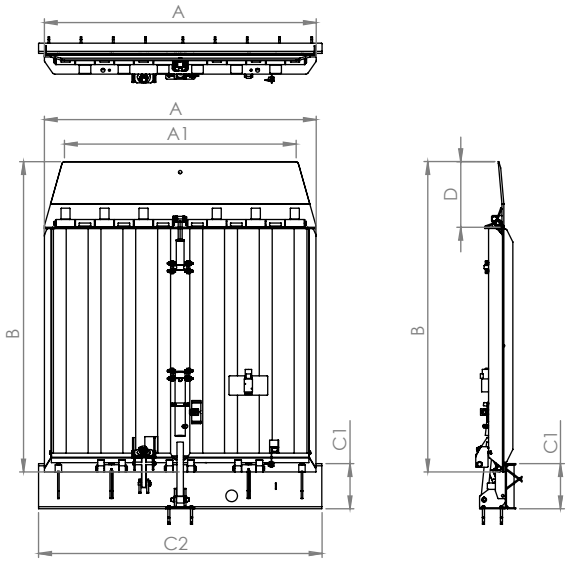
OPTIONAL EQUIPMENT

- App to calculate energy savings.
- Standard electrical control panel.
- Full equipment control panel.
- Steel Faced Dock Bumpers.
- 6” Thick Dock Bumpers.
- Vertical Bumpers.
- Dock Lights.
- Lip Keeper.
- Safety Wheel chocks.

- Available lip typology options:
  1. Chamfer: The lip narrows towards the tip.
  2. Segmented lip: The lip is segmented into multiple parts to adapt to the width of the different vehicles being operated.
- Available lip size: 16”, 18”, 20”.

- Other finishing options:
- Lacquered:
  1. Gray RAL 7011
  2. Blue RAL 5010
- Stainless steel.
- Hot dip galvanized.
- Zinc powder primer:
  1. Black RAL 9005
  2. Gray RAL 7011
  3. Blue RAL 5010

VERTICAL DOCK LEVELER GENERAL DRAWING



MODEL	A	A1(W LIP)	B(L)	C1(H BASE)	C2(W BASE)	D(LIP PROJ)	R1(MAX)	R2(MIN)
KV66	6'	A -1'	6'	11'	A +1'	16" / 18" / 20"	10"	C1-2"
KV68	6'	A -1'	8'	11'A	A +1'	16" / 18" / 20"	10"	C1-2"
KV65	6'	A -1'	5'	11'	A +1'	16" / 18" / 20"	10"	C1-2"
KV75	7'	A -1'	5'	11'	A +1'	16" / 18" / 20"	10"	C1-2"
KV76	7'	A -1'	6'	11'	A +1'	16" / 18" / 20"	10"	C1-2"
KV78	7'	A -1'	8'	11'	A +1'	16" / 18" / 20"	10"	C1-2"

(Additional measures can be provided upon request.)