

HYDRAULIC DOCK LEVELER

KH - SUBMITTAL SHEET

Product Description

The Alapont Logistics Solutions KH Model (Hydraulic Dock Leveler) is characterized by its strength and safety. It's the most economical and easy way to bridge the gap between the building and the back of the truck bed. It has a hinged lip that allows the lip to adapt perfectly to the truck. It incorporates 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.

General Data

Capacity: 35.000 lbs, 45.000 lbs, 60.000 lbs

Platform Size: 6' x 6', 6' x 8', 7' x 6', 7' x 8'

(Additional measures can be provided upon request.)

Lip Length: 16", 18", 20"

Operating Range (Depends on the Length of the Dock):

- 6ft Length: 10" above and 10" below dock height
- 8ft Length: 12" above and 12" below dock height

Materials & Constructions

Platform:

Heavy duty multi-beam deck construction with I-beam.

Constructed of 1/4" Diamond Plate Sheet Metal

Quality: ASTM A36

Platform Reinforcement:

(Depends on the Capacity)

- < 35.000 Lbs: 4" I beam. Quality: ASTM A36
- > 35.000 Lbs: 6" I beam. Quality: ASTM A36

(Depends on the Width)

- 6tf Width: 8 Heavy duty I beam 4" .
- 7tf Width: 10 Heavy duty I beam 4" .

Front and Rear Header Plate:

Heavy-duty steel frame with gusset reinforcements

Lip:

Made of 1/2" Diamond Plate Sheet Metal. Quality: ASTM A36

Lip hinge:

(Depends on the Capacity)

- < 35.000 Lbs: Reinforced with plates and 1" shaft.
- > 35.000 Lbs: Reinforced with plates and 1 1/4" shaft.

Paint Finish:

Anti-corrosion treatment and powder coated painted with oven-polymerized paint at 392 °f.

MODEL	DIM.	CAPACITY
KH6635	6 ft x 6 ft	35.000 Lbs
KH6645	6 ft x 6 ft	45.000 Lbs
KH6660	6 ft x 6 ft	60.000 Lbs
KH6835	6 ft x 8 ft	35.000 Lbs
KH6845	6 ft x 8 ft	45.000 Lbs
KH6860	6 ft x 8 ft	60.000 Lbs
KH7635	7 ft x 6 ft	35.000 Lbs
KH7645	7 ft x 6 ft	45.000 Lbs
KH7660	7 ft x 6 ft	60.000 Lbs
KH7835	7 ft x 8 ft	35.000 Lbs
KH7845	7 ft x 8 ft	45.000 Lbs
KH7860	7 ft x 8 ft	60.000 Lbs

Competitive Features

Safety and Efficiency

- UL listed electrical components.
- Cylinder with velocity fuse.
- Safety stop and control device.
- Folding lip cylinder.
- Service range.
- Toe guards.
- IP64.

Installation & Maintenance

- Accessible hydraulic system.

Reliability & Durability

- Reinforced structure & hinges.
- Anti-corrosion treatment.

Easy Use

- Single-button push activation.

Customization

- Lip length.
- Dock size.
- Capacity.

After-Sales Service

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Electrical Information

Control System:

- Control Panel
 - Option 1: Simple
 - Option 2: Complete (Emergency Stop Button)
- Activation: Single push button activates the hydraulic pump for operating both lip and hoist cylinders.
- Certifications: All components, connections and wiring are UL Listed or recognized.
- Lip Activation: Hydraulic-powered hinged lip for seamless vehicle access

Voltage Options:

- 115V 1Ph
- 230V 1Ph
- 230V 3Ph
- 460V 3Ph

Nominal Current: 10.3 A
Degree of protection IP64

Safety Features:

- Emergency stop button (Only Complete Control Panel)
- Startup Indicator Light (Only Complete Control Panel)
- Velocity fuse to prevent sudden free fall
- Full-range toe guards
- Enclosure

Hydraulic Information

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 integrated to power the vehicle restraint system if equipped. It is completely sealed to prevent entry of dirt, dust, or sand.

MODEL	HS 71D2		HL 71C2	HL 71C2
	Opt. 1	Opt. 2		
Power	1.1 kW	1.32kW	1.1 kW	0.75kW
Voltage	230/400V 3 ph	277/480V 3 ph	230V 1 ph	115V 1 ph
Consumption	4.5/2.6A	4.5/2.6A	7.4A	9.4A
Revolutions / min	2720 min	3260 min	2500 min	3400 min
Frequency	50Hz	60Hz	50Hz	60Hz
Power factor	cos phi 0.80	cos phi 0.82	cos phi 0.95	cos phi 0.98
Protection rating	IP 54	IP 54	IP 54	IP 54

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Installation Requirements

Pit Requirements

- Front Depth: 20"
- Rear Depth: 19"
- Width:
 1. 6 tf Width: 74" Width
 2. 7 tf Width: 85" Width
- Length
 1. 6 tf Length: 63" Width
 2. 8 tf Length: 87" Width
- Level tolerance: +/- 0.25"

Mounting

- Welded to the concrete pit edges

Maintenance Requirements






Preventive Maintenance:

- Lubrication of moving parts every 3 months
- Inspection of hydraulics and hoses annually
- Check for wear and tear on lip and platform

Recommended Spare Parts:

- Hydraulic hoses
- Seals for hydraulic cylinders
- Control buttons

Options and Accesories

- 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 

Compliance Standards

The hydraulic dock leveler complies with the following standards and codes:

- ANSI MH30.1: Safety standards for dock levelers.
- OSHA 1910.26: Requirements for dock boards.
- UL 508A: Certification for electrical control panels.

Warranty

Coverage:

- 10-year structural warranty.
- 1-year hydraulic system warranty.
- Exclusions: Damage due to improper use, overloading, or lack of maintenance.

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Approval Section

CLIENT	
COMPANY	
JOB	
ADDRESS	
QUANTITY	
MODEL	
SIZE	
CAPACITY	
SUPPLY VOLTAGE	
DATE	

Signs

APPROVED BY	
CONTRACTOR	
ENGINEER	
CLIENT / OWNER	