



Logistics Loading and Docking System

Wuxi Dorzone Automation Technology Co., Ltd.

Hydraulic Dock Leveler



Function of the Hydraulic Dock Leveler

Utilizing the hydraulic principle, the main cylinder lifts the platform panel, while the auxiliary cylinder rotates the lip plate. As the platform descends, the lip plate rests on the rear of the truck. This effectively establishes a seamless bridge between the warehouse and the truck.

Specification

Standard Size	Width	Length	Height	Pit Width	Pit Length	Pit Height
2000*2000	2000mm	2000mm	600mm	2030mm	2000mm	610mm
2000*2300	2000mm	2300mm	600mm	2030mm	2300mm	610mm
2000*2500	2000mm	2500mm	600mm	2030mm	2500mm	610mm
2000*3000	2000mm	3000mm	600mm	2030mm	3000mm	610mm
2000*3500	2000mm	3500mm	600mm	2030mm	3500mm	610mm
2000*4000	2000mm	4000mm	600mm	2030mm	4000mm	610mm

Note: Please refer to customization for other specifications

Load and Type Selection

Dynamic Load	Static Load	Thickness of Main Plate	Support Profile	Lip Plate	Base Frame	Range of Forklift
6 Ton	8 Ton	6mm	4mm L-Beam	12x400	100 Beam Channel	2.5 Ton
8 Ton	10 Ton	8mm	4mm L-Beam	12x400	100 Beam Channel	3.0 Ton
10 Ton	12 Ton	8mm	12# I-Beam	16x400	100 Beam Channel	3.5 Ton
14 Ton	16 Ton	10mm	12# I-Beam	16x400	100 Beam Channel	3.5 Ton

Vertical Platform



Function of the Vertical Platform

The primary advantage of the vertical platform is its compact footprint. It can be wall-mounted without the need for a foundation pit. Furthermore, it is highly versatile for both indoor cold storage installations and outdoor carriage applications, effectively improving the sealing performance of cold storage doors.

Specification

Standard Size	Width	Length	Height	Pit Width	Pit Length	Pit Height
2000*L1600	2000mm	1600mm	400mm	2030mm	1600mm	410mm
2000*L1800	2000mm	1800mm	400mm	2030mm	1800mm	410mm
2000*L2000	2000mm	2000mm	400mm	2030mm	2000mm	410mm

Note: Please refer to customization for other specifications

Load and Type Selection

Dynamic Load	Thickness of Main Plate	Support Profile	Lip Plate	Base Frame	Range of Forklift
6 Ton	6mm	4mm L-Steel	12mm	Bended Workpiece	2.0 Ton
8 Ton	8mm	4mm L-Steel	14mm	Bended Workpiece	3.0 Ton
10 Ton	8mm	I-Beam	16mm	Bended Workpiece	3.5 Ton

Note: Special size, special load capacity is available

Shear fork hydraulic



Function of the Shear Fork Hydraulic Platform

Designed to provide stable vertical lifting in specialized environments, this platform utilizes the scissor and fork mechanism to facilitate loading and unloading operations, allowing for the safe raising and lowering of goods.

Specification

Standard Size	Width	Length	Height	Pit Width	Pit Length	Pit Height
2000*1600	2000mm	1600mm	400-650mm	2050mm	1650mm	420-670mm
2000*1800	2000mm	1800mm	400-650mm	2050mm	1850mm	420-670mm
2000*2000	2000mm	2000mm	400-650mm	2050mm	2050mm	420-670mm
2000*2500	2000mm	2500mm	400-650mm	2050mm	2550mm	420-670mm
2000*3000	2000mm	3000mm	400-650mm	2050mm	3050mm	420-670mm
2000*3500	2000mm	3500mm	400-650mm	2050mm	3550mm	420-670mm

Note: Please refer to customization for other specifications

Load and Type Selection

Dynamic Load	Static Load	Thickness of Main Plate	Support Profile	Lip Plate	Base Frame	Range of Forklift
2 Ton	2 Ton	6mm	Square Tube	8mm	Angle Steel	Manual Vehicle
3 Ton	3 Ton	6mm	Square Tube	10mm	Angle Steel	1.0 Ton
6 Ton	6 Ton	8mm	Square Tube	12mm	Angle Steel	2.0 Ton

Note: Special size, special load capacity is available

Telescopic Dock Leveler



Function of the Telescopic Dock Leveler

Utilizing the hydraulic principle, the main cylinder lifts the platform panel, while the auxiliary cylinder extends the lip plate. As the platform descends by its own weight, the lip plate rests smoothly on the rear of the truck, effectively establishing a seamless bridge between the warehouse and the truck.

Specification

Width	Length	Height	Pit Width	Pit Length	Pit Height	Selescoping Length
2000mm	2000mm	600mm	2030mm	2000mm	610mm	650mm
2000mm	2300mm	600mm	2030mm	2300mm	610mm	980mm
2000mm	2500mm	600mm	2030mm	2500mm	610mm	980mm
2000mm	3000mm	600mm	2030mm	3000mm	610mm	980mm
2000mm	3500mm	600mm	2030mm	3500mm	610mm	980mm
2000mm	4000mm	600mm	2030mm	4000mm	610mm	980mm
2000mm	5000mm	600mm	2030mm	5000mm	610mm	980mm

Note: Please refer to customization for other specifications

Load and Type Selection

Dynamic Load	Static Load	Thickness of Main Plate	Support Profile	Lip Plate	Base Frame	Range of Forklift
6 Ton	8 Ton	6mm	4mm U-Steel	14x400+8x700	100 Beam Channel	2.5 Ton
8 Ton	10 Ton	8mm	4mm U-Steel	16x400+8x700	100 Beam Channel	3.0 Ton
10 Ton	12 Ton	8mm	12# I-Beam	16x400+8x700	100 Beam Channel	3.5 Ton
14 Ton	16 Ton	10mm	12# I-Beam	16x400+8x700	100 Beam Channel	3.5 Ton

Side platform



Function of the Side Platform

Mounted on the exterior wall beside the delivery dock, this platform establishes a loading and unloading ramp between the dock and the truck. It allows for both electric and manual adjustment to accommodate varying truck bed heights.

Specification

Standard Size	Width	Length	Height
W2200*L500	1600+300+300	500mm	500mm
W2400*L500	1800+300+300	500mm	500mm
W2600*L500	1800+400+400	500mm	500mm
W2800*L500	1800+500+500	600mm	600mm
W3000*L500	2000+500+500	600mm	600mm
W3500*L500	2000+750+750	600mm	600mm

Note: Please refer to customization for other specifications

Load and Type Selection

Dynamic Load	Static Load	Thickness of Main Plate	Support Profile	Lip Plate	Base Frame	Range of Forklift
2 Ton	2 Ton	6mm	Beam Channel	8mm	Angle Steel	Manual Vehicle
3 Ton	3 Ton	6mm	Beam Channel	10mm	Angle Steel	1.0 Ton
6 Ton	6 Ton	8mm	Beam Channel	12mm	Angle Steel	2.0 Ton

Note: Special size, special load capacity is available



The function of mobile hydraulic boarding bridge

The method of mobile operation is used to load and unload the ground of the stationcar and the truck car, and the lifting principle is used to meet the needs of the car operationwith different heights. Height adjustment can be achieved using electrohydraulic or manualrocker arm brackets.

Specification

Dynamic Load	Kingpost	Width	Length	Lift Height	Guardrail Height	Range of Forklift
6 Ton	25# I-Beam	2200mm	9800mm	1700mm	40x60x400	2.5 Ton
8 Ton	28# I-Beam	2400mm	10800mm	1750mm	40x60x400	3.0 Ton
10 Ton	36# I-Beam	2400mm	11800mm	1750mm	40x60x400	3.5 Ton

Frame platform



Function of the Frame Platform

When there is a significant height difference between the indoor and outdoor areas, and no pit can be reserved indoors, the frame platform provides an ideal solution to facilitate extended loading and unloading operations.

Specification

Standard Size	Width	Length	Height
2600*2000	1800+400+400	2000mm	500mm+750mm
2800*2000	1800+500+500	2000mm	500mm+750mm
3000*2000	1800+600+600	2000mm	500mm+750mm
3000*2500	2000+500+500	2500mm	600mm+650mm
3200*2500	2000+600+600	2500mm	600mm+650mm
3600*3500	2000+800+800	3500mm	600mm+650mm

Note: Please refer to customization for other specifications

Load and Type Selection

Dynamic Load	Static Load	Thickness of Main Plate	Support Profile	Lip Plate	Base Frame	Range of Forklift
6 Ton	8 Ton	6mm	Beam Channel Frame	12mm	Square Tube	2.0 Ton
8 Ton	10 Ton	6mm	Beam Channel Frame	14mm	Square Tube	3.0 Ton
10 Ton	12 Ton	6mm	Beam Channel Frame	16mm	Square Tube	3.5 Ton

Note: Special size, special load capacity is available

Loading room



Function of the Loading Room

When indoor space is limited, the loading room extends a transition bridge corridor to the outdoors for loading and unloading operations. Equipped with adjustable platforms, it accommodates varying truck bed heights. Furthermore, when paired with door seals, it provides excellent sealing and weather protection.

Specification

Standard Size	Room Width	Room Length	Room Height
W3000*2000	1800+600+600	2200mm+600mm	1250mm+2750mm
W3200*2000	1800+700+700	2200mm+600mm	1250mm+3000mm
W3400*2000	2000+700+700	2200mm+600mm	1250mm+3200mm
W3600*2500	2000+800+800	2700mm+600mm	1250mm+3400mm
W3600*3000	2000+800+800	3200mm+600mm	1250mm+3600mm
W3600*3500	2000+800+800	3700mm+600mm	1300mm+3000mm

Note: Please refer to customization for other specifications

Load and Type Selection

Dynamic Load	Static Load	Thickness of Main Plate	Support Profile	Lip Plate	Base Frame	Range of Forklift
6 Ton	8 Ton	6mm	Beam Channel Frame	12mm	Square Tube	2.0 Ton
8 Ton	10 Ton	6mm	Beam Channel Frame	14mm	Square Tube	3.0 Ton
10 Ton	12 Ton	6mm	Beam Channel Frame	16mm	Square Tube	3.5 Ton

Note: Special size, special load capacity is available

Sponge Dock



Function of the Sponge Dock Seal (Compression Seal / Air-Cushion Seal)

Mounted on the wall surrounding the dock opening, the sponge seal is compressed against the truck. It utilizes the sponge's natural rebound resilience to create a tight seal between the warehouse and the vehicle.

Specification

Standard Size	Sponge Width	Sponge Thickness	Curtain Height	Air-tightness
2600*2800	300mm	250mm	1000mm	95%
3000*3000	300mm	250mm	1000mm	95%
3000*3300	300mm	250mm	1000mm	95%

Note:Customization of Special Size Consuation

Mechanical Dock Seal



Function of the Mechanical Seal (Door Curtain / Door Cover)

An initial rain-proof sealing effect is achieved through the close contact between the upper curtain and the side curtains against the truck carriage.

Specification

Standard Size	Top Curtain	Side Curtain	Frame	Air-tightness
3200*3400	1000-1200mm	600mm	Aluminum	Rain Proofness/Leakproofness 70%
3400*3400	1000-1200mm	600mm	Aluminum	Rain Proofness/Leakproofness 70%
3400*3600	1000-1200mm	600mm	Aluminum	Rain Proofness/Leakproofness 70%
3400*3600	1000-1200mm	600mm	Aluminum	Rain Proofness/Leakproofness 70%

Note: Customization of Special Size Consultation

Inflatable Dock Seal



Function of the Inflatable Door Seal

The airbags are continuously inflated by a fan to expand and fit tightly against the cargo vehicle. This achieves a high level of sealing performance and effectively prevents the exchange of hot and cold air between the indoor and outdoor environments.

Specification

Standard Size	Top Expansion	Side Expansion	Fan Power	Air-tightness
3400*3400	1200mm	800mm	380V	95%
3400*3600	1200mm	800mm	380V	95%
3400*3800	1200mm	800mm	380V	95%
3600*3800	1200mm	800mm	380V	95%
3600*4000	1200mm	800mm	380V	95%
3600*4500	1200mm	800mm	380V	95%

Note: The expansion length of the top airbag can reach 1200mm, and the expansion width of the side is 800mm.

Control Box

Control Box of Standard



Control Box of Telescopic Dock Leveler



Digital Display Control Box



Rubber Bumper

Rubber Bumper



250*250*100mm



400*200*100mm

Stack Rubber Bumper



300*200*100mm

D Type Rubber Bumper



2000*200*200mm

Function of the Rubber Bumper

Rubber bumpers effectively prevent damage to the building walls and safely guide vehicles to dock against the loading bay.

Truck Stop



Function of the Truck Restraint (Truck Stop)

A hydraulic cylinder pushes the hook to lock securely against the rear impact guard (ICC bar) of the trailer, effectively preventing any unintended movement of the truck during loading and unloading.

Optional Accessories

Signal Light



LED Light



Wheel Guide



Warning Column

