



DOCKING SYSTEMS

SAFETY · RELIABILITY · EFFICIENCY · DURABILITY

DOCK LEVELERS



DoorHan dock levelers are designed to act as bridge between warehouses and trucks' or trailers' bodies and to provide quick and unimpeded movement of forklifts during loading/unloading. They can be used with trucks which are equipped with tail-lifts. DoorHan produces four types of dock levelers:

- electrohydraulic with hinged lip of DLHHI series;
- electrohydraulic with telescopic lip of DSI series;
- mechanical of MODL series;
- mechanical of MDLM series (Minidock).

ELECTROHYDRAULIC WITH HINGED LIP OF DLHHI SERIES



Technical specifications	Parameters
Length, mm	2 000/2 500/3 000/3 500/4 000/4 500
Width, mm	1 800/2 000/2 200
Lip length, mm	400 (500 — option)
Working range, mm	From -350 to +550
Amount of lift cylinders	One as standard/two upon request
Load capacity, kg	6 000/10 000 (other upon request)
Operating temperature range, °C	-30... +50**
Colour*	Signal blue (RAL 5005) (other upon request)

* Powder painting of frame and framework with preliminary shot blasting.

** It's necessary to use low temperature oil if temperature is below -20°C.

ELECTROHYDRAULIC WITH TELESCOPIC LIP OF DSI SERIES



Technical specifications	Parameters
Length, mm	2 500/3 000/3 500/4 000
Width, mm	2 000/2 200/2 400
Lip length, mm	500/1 000
Working range, mm	From -430 to +480
Amount of lift cylinders	2
Load capacity, kg	6 000/10 000 (other upon request)
Operating temperature range, °C	-30... +50
Colour*	Signal blue (RAL 5005) (other upon request)

* Powder painting of frame and framework with preliminary shot blasting.

MECHANICAL DOCK LEVELER OF MODL SERIES



Technical specifications	Parameters
Length, mm	2 300
Width, mm	1 800/2 000
Lip length, mm	400
Working range, mm	From -300 to +310
Load capacity, kg	6 000
Operating temperature range, °C	-30... +50
Colour*	Signal blue (RAL 5005) (other upon request)

* Powder painting of frame and framework with preliminary shot blasting.

MECHANICAL DOCK LEVELER OF MDLM SERIES



Technical specifications	Parameters
Length, mm	500
Width, mm	1 600/1 800/2 000/2 200
Lip length, mm	300 (400 — option)
Working range, mm	From -100 to +100
Load capacity, kg	6 000
Operating temperature range, °C	-30... +50
Colour*	Signal blue (RAL 5005) (other upon request)

* Powder painting of frame and framework with preliminary shot blasting.

MECHANICAL FOLDING TRACKS

FT mechanical folding tracks are installed on open ramps to compensate height difference up to 360 mm, depending on a model. They are designed for work with trucks or trailers, which have approximately the same height. When loading/unloading the track can be lowered in the truck body using the side handle until the lip rests on the truck. After loading/unloading is completed, the track rises and returns to its original position. Mechanical folding tracks can have stationary or sliding design. Sliding folding track allows you to load/unload goods in several places, moving along the guide rail from one place to another.

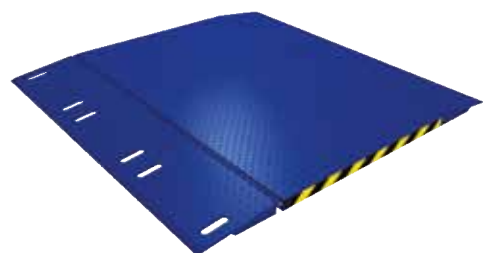


Technical specifications	Parameters
Length, mm	1 000/1 500
Width, mm	1 200/1 500/1 800/2 000
Lip length, mm	210
Working range, mm	From -180 to +180
Load capacity, kg	4 000
Maximal point load, N/mm ²	1,3
Operating temperature range, °C	-30... +50
Colour*	Signal blue (RAL 5005)

* Powder painting of frame and framework with preliminary shot blasting.

MOBILE TRACK

MT mobile tracks are used for loading/unloading when standard dock leveler or folding track can not be used. They are designed for using with trucks which have approximately the same height above the ramp level. The mobile track can compensate height difference up to 240 mm. The track can be transported to the required place using a forklift.



Technical specifications	Parameters
Length, mm	2 000
Width, mm	1 800/2 000
Turning/fixed lip length, mm	410
Working range, mm	0-240 (above the dock)
Load capacity, kg	4 000
Maximal point load, N/mm ²	1,3
Operating temperature range, °C	-30... +50
Colour*	Signal blue (RAL 5005)

* Powder painting of frame and framework with preliminary shot blasting.

DOCK SHELTERS



Dock shelters act as a seal between the warehouse door opening and the truck body ensuring maximum impermeability. Dock shelters prevent dust, wind, rain, insects and draughts from entering into facility. DoorHan dock shelters are available in two types: inflatable and curtain type. The curtain type dock shelters can be non-collapsible or with retractable structure. It is especially convenient to use dock shelters at warehouses where perishable goods require a special loading conditions.

DOCK SHELTER WITH ALUMINIUM RETRACTABLE STRUCTURE



Technical specifications	Parameters
Width, mm	3 000/3 200/3 400
Height, mm	3 000/3 200/3 400/4 400
Dock shelter depth, mm	600 (900 — option)
Upper sheet	Single as standard/double upon request
Profile colour	White aluminium (RAL 9006) (other upon request)
Thickness of front PVC sheet, mm	3
Thickness of side PVC sheet, mm	0,5
Operating temperature range, °C	-35... +90

DOCK SHELTER WITH NON-COLLAPSIBLE STRUCTURE



Technical specifications	Parameters
Width, mm	3 000/3 200/3 400
Height, mm	3 000/3 200/3 400/4 400
Dock shelter depth, mm	600 (900 — option)
Upper sheet	Single as standard/double upon request
Profile colour	White aluminium (RAL 9006) (other upon request)
Wall panel colour	Signal white (RAL 9003) (other upon request)
Thickness of front PVC sheet, mm	3
Operating temperature range, °C	-35... +90

INFLATABLE DOCK SHELTER



Technical specifications	Parameters
Width, mm	3 410/3 610
Height, mm	3 300/3 800/4 900
Dock shelter depth, mm	800 (other upon request)
Upper cushion extension, mm	900 (1 200 — option)
Side cushion extension, mm	600
Upper decorative curtain, mm	500
Side decorative curtain, mm	200
Average time of cushion inflation, s	40
Thickness of cushion material (Cordura 1000), mm	0,5
Operating temperature range, °C	-35... +90

DOCK HOUSES



The dock house is a loading dock outside of the warehouse space. It has an extended dock shelter and dock leveler. This combination provides excellent protection against external elements and ensures stable temperature in the warehouse. The dock house saves space in a warehouse and therefore increases the storage capacity. DoorHan produces two types of dock houses: straight and angled. Angle dock houses are installed at 30°, 45° or 60° to the building areas, where it is impossible to park trucks perpendicular to the dock wall. It's possible to install light or standard type of a dock house.

STANDARD SERIES DOCK HOUSES



Technical specifications	Parameters
Dimensions	Depend on dimensions of dock shelter and dock leveler
Angle	90°/60°/45°/30° (other upon request)
Thickness of sandwich panel walls, mm	40
Maximal wind load, kN/m ²	0,65
Roof	Galvanized sheet C44
Maximal snow load (roof), kN/m ²	3,0
Outside/inside wall colour*	Signal white (RAL 9003) (other upon request)
Frame colour*	Signal blue (RAL 5005) (other upon request)
Wall edging profile colour*	White aluminium (RAL 9006) (other upon request)
Operating temperature range, °C	-35... +70

* Powder painting of frame and framework with preliminary shot blasting.

LIGHT SERIES DOCK HOUSES

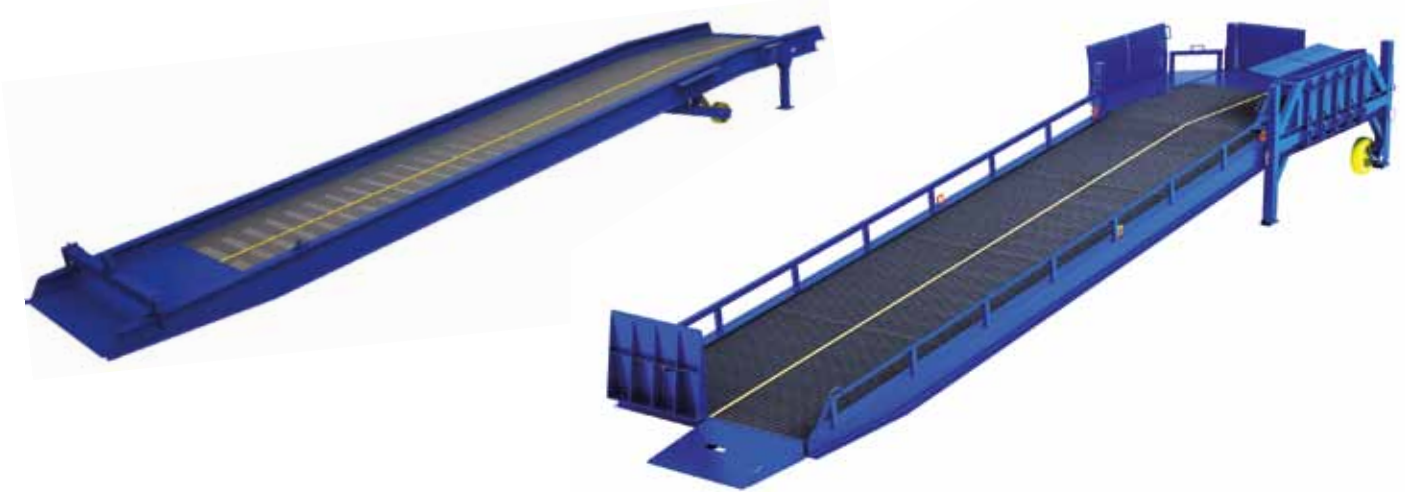


Technical specifications	Parameters
Dimensions	Depend on dimensions of dock shelter and dock leveler
Angle	90°/60°/45°/ 30° (other upon request)
Walls	Corrugated sheet — C20/21
Maximal wind load, kN/m ²	0,65
Roof	Galvanized sheet C44
Maximal snow load (roof), kN/m ²	3,0
Inside/outside wall colour*	Signal white (RAL 9003)/“Grey ground”
Frame colour*	Signal blue (RAL 5005) (other upon request)
Operating temperature range, °C	-35... +70

* Powder painting of frame and framework with preliminary shot blasting.

MOBILE RAMPS

RMH and RMY mobile ramps are used for loading/unloading from ground level when a dock leveler or folding track cannot be used. They do not require any special preparation for start-up, there is no need of a stationary ramp. After activation the ramp is lifted using manual, hydraulic or electro-hydraulic drive equipped with safety system, and moved to the truck by a forklift. After that, the ramp lowers until it reaches the truck floor. After loading/unloading is completed the ramp rises again and than it gets transported to the storage place. The ramp can be supplied with low temperature oil (up to $-50\text{ }^{\circ}\text{C}$).



Technical specifications	Parameters
Length, mm	12 000/9 000 (other upon request)
Width, mm	2 300/3 000*
Horizontal part length, mm	2 000/2 360/3 000
Passage way width, mm	1 920/1 970
Lip length, mm	340
Working range, mm	900–1 700
Amount of lift cylinders**	2
Load capacity, kg	6 000/10 000 (other upon request)
Supply voltage, V**	380, 3 phases
Colour***	Signal blue (RAL 5005) (other upon request)

* Ramp with three-side loading.

** Ramps with hydraulic or electro-hydraulic drive.

*** Powder painting of frame and framework with preliminary shot blasting.

LIFTING TABLE

Lifting table is a fixed lifting device intended for vertical transportation of the goods from one level of production/storage room to another. They can be used at multilevel parkings, production lines, for supply of materials to the feeding unit level. It is a good alternative if a lift or stationary ramp for loading/unloading of trucks is not available.



Technical specifications	Parameters
Dimensions, mm	Upon request
Working range	Upon request
Weight	Depends on table parameters
Load capacity, kg	Up to 7 000
Electric motor	Depends on table parameters
Supply voltage, V	380, 3 phases
Operating temperature range, $^{\circ}\text{C}$	$-30\text{...} +50$
Colour*	Signal blue (RAL 5005) (other upon request)

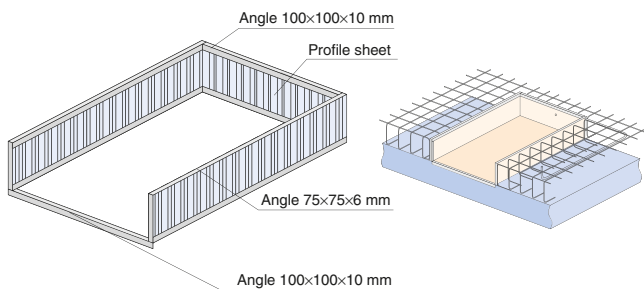
* Powder painting of frame and framework with preliminary shot blasting.

ACCESSORIES



■ Wheel guides

Wheel guides installed in front of the loading bay increase the safety and efficiency of loading and unloading operations and improve the service life of dock shelters considerably. They are designed to minimize possible contact with the truck wheel rim. The wheel guides are available in 159 mm diameter tube with bends for fastening. They are bolted into place using concrete anchors or can be sunk into the floor. As the wheel guides are exposed to high dynamic load, the model with anchor bolt fastening shall be installed only on the concrete area.



■ Frame for concreting

The frame for concreting is manufactured in accordance with dock leveler dimensions.



■ Guards

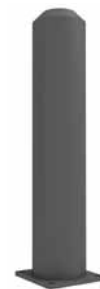
Guards are installed indoors to prevent damage of walls by forklifts or pallets. They ensure correct and safe moving of vehicles in the storage room and near the dock. The guard is a round tube with diameter of 100–159 mm. It can have any shape and can be made in accordance with customer's requirements.



■ Rubber bumpers

Rubber bumpers provide safe approach of trucks to the loading place and prevent damage to the building walls. They cushion a shock in case of incorrect parking. The bumpers are made of technical rubber, which increases their wear resistance and durability. The following models of bumpers are available:

- small bumper (250×250×100 mm)
- large bumper (500×250×100 mm)
- console type bumper (500×250×100 mm)
- sliding bumper (500×250×100 mm)



■ Protection bollards

Shock columns protect the door's vertical angles from damage by pallets or forklifts. It is installed indoors in front of the vertical angles. Shock columns are available in 100–159 mm diameter tube.

PLANTS



DOOR SYSTEMS • DOCKING SYSTEMS • AUTOMATION SYSTEMS

Russia, MOSCOW

143002, Odintsovo district,
s. Akulovo, ul. Novaya, d. 120
Tel. +7 495 933 2400
Fax +7 495 937 9550
E-mail: info@doorhan.com

China, SUZHOU

Gucun Road 188, Xukou Road,
PC: 215164
Tel. +86 512 6631 6111, 6631 6108,
Fax +86 512 6631 6106
E-mail: sales.suzhou@doorhan.com

Czech Republic, KADAN

43201, Kralovský Vrch 2018
Tel. +420 474 319 111
E-mail: europe@doorhan.com