



DOCKING SYSTEMS



TABLE OF CONTENTS



DOCK LEVELERS

DOCK SHELTERS

DOCK HOUSES

EXTERNAL FRAMES

MECHANICAL DRAWBRIDGES

ACCESSORIES

TECHNICAL SPECIFICATIONS

DOCK LEVELERS





DLHHI series



☐ Electrohydraulic dock leveler with hinged lip of ☐ Electrohydraulic dock leveler with telescopic lip of DSI series



☐ Electrohydraulic dock leveler with hinged lip cantilevered type of DLHHI(C) series



☐ Mechanical dock leveler of MODL series



☐ Mechanical dock leveler of MDLM series

CATO dock levelers are designed to act as bridge between warehouses and truck body and to provide quick and unimpeded movement of forklifts during loading/unloading. They can be used with trucks which are equipped with tail-lifts.

CATO produces five types of dock levelers:

- dock leveler with hinged lip of DLHHI series;
- dock leveler with telescopic lip of DSI series;
- dock leveler of MODL series;
- dock leveler of MDLM series (Minidock);
- dock leveler with hinged lip cantilevered type of DLHHI(C) series.

DOCK SHELTERS





☐ Dock shelter with aluminium retractable structure



☐ Dock shelter with non-collapsible structure



☐ Inflatable dock shelter

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. CATO 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 HOUSES





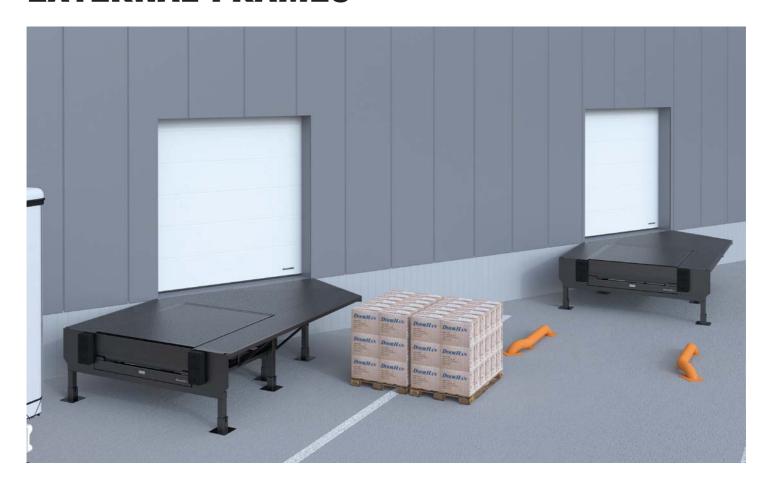


☐ Standard dock houses

☐ Light series 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. CATO 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. The walls of DH are made of coorugated sheet or sandwich panels.

EXTERNAL FRAMES





External frames are installed in the dock or in front of the opening as a stand-alone unit, including a dock leveler. One of the main advantages of external frames is a possibility to modernize them without changing design of the main building. External frames can be used in places, where trucks can not be parked transversely to the building. All types of dock levelers can be used with external frames. External frames are available with 4 angular adjustments — 90° , 60° , 45° , 30° . Since the external frames are preassembled the installation time is quite short.

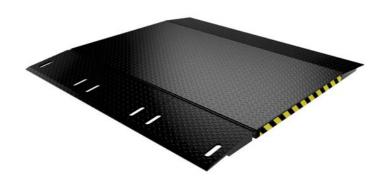
MECHANICAL DRAWBRIDGES





☐ Mechanical drawbridges

FT mechanical drawbridge 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 drawbridge can have stationary or sliding design. Sliding drawbridge allows you to load/unload goods in several places, moving along the guide rail from one place to another.



☐ Mobile bridge

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

ACCESSORIES

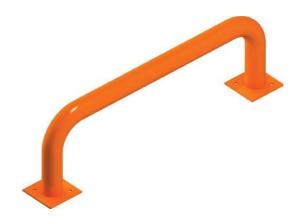
WHEEL GUIDES -

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.



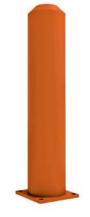
GUARDS -

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.



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.



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 ($250 \times 250 \times 100$ mm);
- large bumper (500 \times 250 \times 100 mm);
- console type bumper ($500 \times 250 \times 100$ mm); sliding bumper ($500 \times 250 \times 100$ mm);
- rubber bumper with steel plate (500×250×100 mm);
- steel bumper with damping insert (500×255×205);
- steel bumper with damping insert (800×255×205).













TECHNICAL SPECIFICATIONS

DOCK LEVELER WITH HINGED LIP OF DLHHI SERIES

Technical specifications	Parameters
Length, mm	2000/2500/3000/3500/4000/4500
Width, mm	1800/2000/2200
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	6000/10000 (other upon request)
Operating temperature range, °C	-20 +50**
Colour*	black (RAL 9005) and 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.

DOCK LEVELER WITH HINGED LIP CANTILEVERED TYPE OF DLHHI(C) SERIES

Technical specifications	Parameters
Length, mm	2000/2500/3000/3500
Width, mm	1800/2000/2200
Lip length, mm	400 (500 — option)
Amount of lift cylinders	one as standard/two upon request
Load capacity, kg	6000/10000 (other upon request)
Operating temperature range, °C	-20 +50**
Colour*	black (RAL 9005) and 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 $^\circ\text{C}$.

DOCK LEVELER WITH TELESCOPIC LIP OF DSI SERIES

Technical specifications	Parameters
Length, mm	2500/3000/3500/4000
Width, mm	2000/2200/2400
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	-20 +50
Colour*	black (RAL 9005) and blue (RAL 5005), other upon request

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

MECHANICAL DOCK LEVELER OF MODL SERIES

Technical specfications	Parameters
Length, mm	2300
Width, mm	1800/2000
Lip length, mm	400
Working range, mm	from -300 to +310
Load capacity, kg	6000
Operating temperature range, °C	-30 +50
Colour*	black (RAL 9005) and blue (RAL 5005), other upon request

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

MECHANICAL DOCK LEVELER OF MDLM SERIES

Technical specfications	Parameters
Length, mm	500
Width, mm	1 600/1 800/2 000
Lip length, mm	300 (400 — option)
Working range, mm	from -100 to +100
Load capacity, kg	6000
Operating temperature range, °C	-30 +50
Colour*	black (RAL 9005) and blue (RAL 5005), other upon request

 $^{^{\}star}$ Powder painting of frame and framework with preliminary shot blasting.

DOCK SHELTER WITH ALUMINIUM RETRACTABLE STRUCTURE

Technical specifications	Parameters
Width, mm	3000/3200/3400
Height, mm	3000/3200/3400/4400
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 + 50

DOCK SHELTER WITH NON-COLLAPSIBLE STRUCTURE

Technical specifications	Parameters
Width, mm	3000/3200/3400
Height, mm	3000/3200/3400/4400
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 + 50

INFLATABLE DOCK SHELTER

Technical specifications	Parameters
Width, mm	3410/3610
Height, mm	3300/3800/4900
Dock shelter depth, mm	800 (other upon request)
Upper cushion extension, mm	900 (1200 — 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 cusion material (Cordura 1000), mm	0,5
Operating temperature range, °C	-35 + 50

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
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
Outside/inside wall colour*	signal white (RAL 9003), other upon request
Frame colour*	black (RAL 9005) and blue (RAL 5005), other upon request
Wall edging profile colour*	white aluminium (RAL 9006), other upon request
Operating temperature range, °C	-35 + 50

^{*} 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 corrugated C44
Maximal snow load (roof), kN/m ²	3,0
Inside/outside wall colour*	signal white (RAL 9003) / grey ground
Frame colour*	black (RAL 9005) and blue (RAL 5005), other upon request
Operating temperature range, °C	-35 + 50

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

MECHANICAL DRAWBRIDGES

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	4000
Maximal point load, N/mm²	1,3
Operating temperature range, °C	-30 +50
Colour*	black (RAL 9005) and blue (RAL 5005)

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

MOBILE TRACK

Technical specifications	Parameters
Length, mm	2000
Width, mm	1800/2000
Turning/fixed lip length, mm	410
Working range, mm	0–240 (above the dock)
Load capacity, kg	4000
Maximal point load, N/mm²	1,3
Operating temperature range, °C	-30 +50
Colour*	black (RAL 9005) and blue (RAL 5005)

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