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DOOR PARTS

TRADE SUPPLIERS

TECHNICAL DATA SHEET

v03.2017

HIDRA NR

DOCK LEVELLER MODEL HIDRA NR

It is the perfect link between the warehouse and the loading vehicle. The system of stackable lip bridges the void between the ramp and the truck bed in the most standard situations.

It is very easy to handle, which allows it to be used by drivers or workers not specifically qualified.

The fastening process to the construction is by a steel frame attached to the floor, making easier the assembly and maintenance tasks.

Standard dimensions

Stackable lip

Element	Material	Details
Frame / ramp frame	Steel angular profile of 80x80mm	Anchoring on the perimeter. Brackets to be fastened to the concrete.
Base	Hot-dip laminated steel	Made by angles and structural tubes.
Platform	Deck	Steel stud plate 6mm/8mm thickness
	Support	IPN beams
	Stackable lip	Steel stud plate 13mm/15mm thickness
	Hinges	Steel plate 12mm/20mm thick
	Hinges shaft	Steel Ø29mm
		Non-slip sheet.
		Welded to the deck.
		Non-slip. 450mm lip to increase support on the loading vehicle.
		Laser cutting.
		Bichromated or zinc- plated finishing.

Finishing

- ✓ Electrostatically pulverised polyester powder. Thus, a higher penetration in all points is achieved, including the less accessible areas.
- ✓ Polymerization in high temperature furnace, allowing maximum adhesion on treated surfaces.
- ✓ Increased resistance to the wear caused by the usual work.
- ✓ High resistance to the discolouring.
- ✓ Painted in RAL 5010 blue.

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Options

✓ Hot-dipped galvanized steel

⚠ The process of hot-dip galvanizing involves immersing the ramp in molten zinc at 450°C. Performing this process can cause deformations to the dock leveller. The deformations are corrected in factory, but there might still be some. These deformations will not affect the proper operation of the ramp, but may be aesthetic alterations in both the finishing and the movement.

✓ Ramp surface and lip in stainless steel / Chassis in hot-dipped galvanized steel.

✓ Stainless steel.

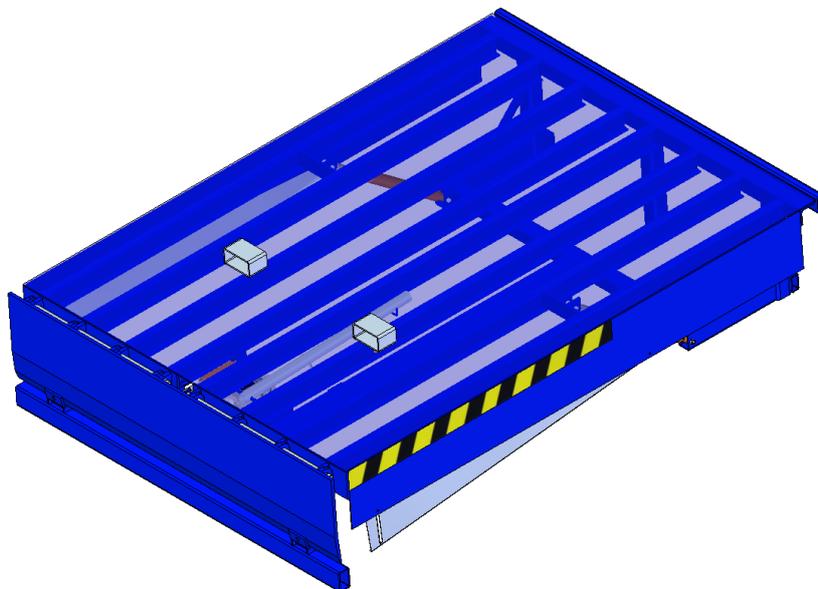
✓ Galvanized or stainless embedment frame.

✓ Standard rubber bumpers (see catalogue of bumpers to choose the most suitable model for installation).

✓ Side sealing joints in EPDM and PVC.

✓ Paint with special colours.

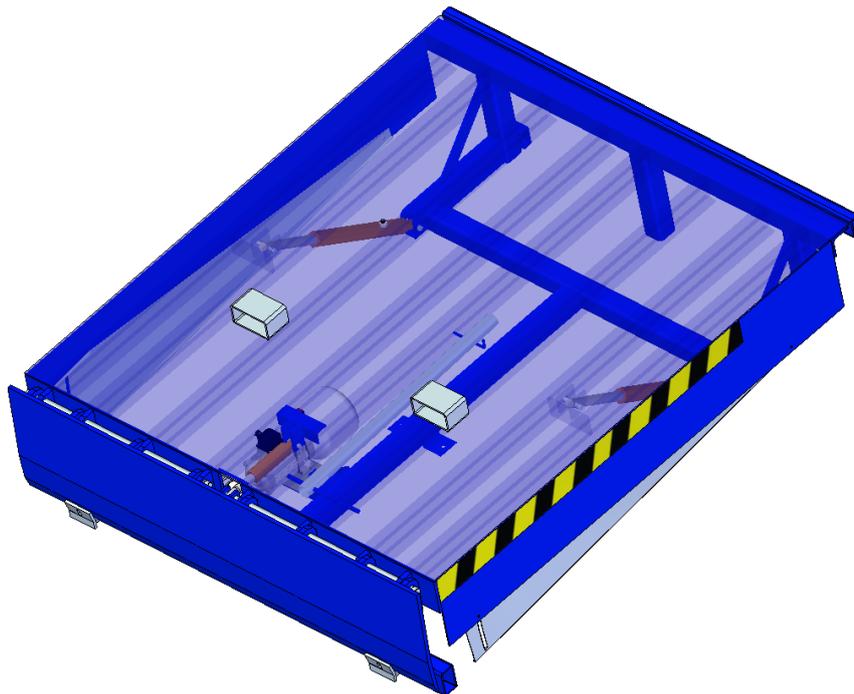
PRODUCT DIMENSIONS





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Model	Ramp					Pit	
	Width	Sheet length	Total length (extended lip)	Total length (folded lip)	High	Width	Length
Hidra NR 18.20	1840	2060	2510	2190	500	1880	2190
Hidra NR 20.21	2000	2180	2630	2310	600	2040	2310
Hidra NR 20.23	2000	2380	2830	2510	600	2040	2510
Hidra NR 20.26	2000	2680	3130	2810	600	2040	2810
Hidra NR 20.28	2000	2880	3330	3010	600	2040	3010

All units in mm

** The Hidra NR 225.xx models have the same dimensions except the width which is 2250mm.

Element	Units	Value
Lip length	mm	450
Maximum load	Tn	6
Side warp allowed	mm	± 100
Maximum slope as per EN 1398		12,5 %



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MOTORIZATION

× **Cylinders:**

- ✓ Two cylinders Ø60/35 for lifting the platform.
- ✓ Secondary cylinder Ø50/30 for opening the lip.

× **Motor – pump:**

Element	Characteristics
Voltage in volts Frequency in HZ	230 / 400 V three-phase. 50 / 60 Hz.
Power	1...1.5 CV / 0.73...1.1 kW, depending on ramp size.
Flow	1.5 cm ³ /rev.
Maximum operating pressure	140 bar.
Oil amount	3,5L.
Oil	Beslux Divol HV32.
Oil (Viscosity at 40°C)	32 cSt.
Viscosity index	Very high.
Hydraulic logic block	Sequentially, allowing control on all movements.
Valves located in the manifold	<ul style="list-style-type: none"> ✓ Controller / pressure limiter. ✓ Speed controller for the lip lowering. ✓ Speed controller for the dock leveller lowering. ✓ Sequence controller.
Blockage electrovalve	In absence of voltage or emergency stop.
Protection	IP54.

× **Power of the engine depending on the ramp model:**

Model	Motor	
	50 Hz	60 Hz
Hidra NR 18.20	1 CV / 0.73 kW	1 CV / 0.73 kW
Hidra NR 20.21	1 CV / 0.73 kW	1 CV / 0.73 kW
Hidra NR 20.23	1 CV / 0.73 kW	1 CV / 0.73 kW
Hidra NR 20.26	1 CV / 0.73 kW	1.5 CV / 1.1 kW
Hidra NR 20.28	1 CV / 0.73 kW	1.5 CV / 1.1 kW

Options

- ✓ Special voltages and frequencies.



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ELECTRICAL SYSTEM

Control panel – Standard	
Model	RS200L, electronic.
Operating system	Present worker.
Keys on exterior cover	Pushbuttons for the drive. Voltage switch.
Hydraulic unit supply	Through power contactor.
Contactor maximum load capacity	2.2 kW, 6 A.
Protection	Electronic.
Blockage	In case of power cut.
IP box	PVC, with polyamide cable glands in entrances and exits.
Control box IP protection	IP 65.
Voltages	Power supply: 230 / 400 V three-phase. Manoeuvre: 24 V.
Connectable accessories	Blockage signal because door open.
Protection provided by owner / customer	K type fuse (fast acting), maximum 10 A.
Electrical installation of control panel to motor	Installation protected from the panel to the ground through plastic tube.

Control panel - Optional	
Model	MH1V, electromechanically.
Operating system	Present worker.
Keys on exterior cover	Pushbuttons for the drive. Voltage switch.
Hydraulic unit supply	Through power contactor.
Protection	Through adjustable circuit breaker.
Contactor maximum load capacity	6 / 9 A.
Blockage	In case of power cut.
IP box	ABS, with polyamide cable glands in entrances and exits.
Control box IP	IP 66 displaced with cable glands
Voltages	Power supply: 230 V single-phase or 230 / 400 V three-phase Manoeuvre: 24 V
Connectable accessories	Blockage signal because door open
Protection provided by owner / customer	K type fuse (fast acting), maximum 10 A
Control panel electrical installation to motor	Installation protected from the panel to the ground through plastic tube.

Options	
<input checked="" type="checkbox"/>	Special voltages and frequencies



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OTHER CHARACTERISTIC ELEMENTS / QUALITIES / OPTIONS

- ✓ Includes supports for the handling, by forklift when placing it on site.

✗ Ramp electrical data

The voltage wiring up to the panel unit has to be completed by a licensed electrician and must be protected according to the existing rules and standards.

STANDARD electrical characteristic	
Voltage V	230 / 400 V three-phase.
Frequency Hz	50 / 60Hz.
Power kW	0.83...1.2 kW, as per ramp size and frequency.

SAFETY

Safety	Used procedure
Spring safety valve on cylinders in the platform	Slows or blocks the descent in case of unexpected departure of the truck.
Anti-entrapment protection	Protection side sheets.
Vision	Diagonal black and yellow bands to warn when the ramp is in the raised position.
Voltage switch / emergency stop	Stops the manoeuvre in any position.
Manoeuvre blockage	After an emergency stop or a power failure, a voluntary keystroke for restart is required.
Safety electrovalve	Avoids the ramp falling in case of power failure.
Maintenance blockage barrier	It enables safe working under the dock leveller during maintenance tasks.

CERTIFICATES AND STANDARDIZATIONS

Our ramps are manufactured according to the UNE-EN 1398 and UNE-EN 60204 standard and comply with the directives 2004/108CE, 2006/95/CE and 89/106/CE

The information contained in this descriptive text is general for the referenced product. In no case is it binding or contractual. OSA reserves the right to modify the features herein.