



Loading technology

Energy-efficient complete solutions for quick and safe operations

HÖRMANN

Mechanical dock levellers

With uniform fleet and low height difference to the building floor

1 Flexible dock leveller platform

The platform is made of moulded, slip-resistant steel S 235 (6 / 8 mm thick).

2 Robust self-cleaning hinged lip

The hinged lip supplied is made of moulded, slip-resistant steel S 355 JO (12 / 14 mm thick).

The closely spaced hinge strips (32 units on a 2 m wide dock leveller) enable improved force distribution in comparison to hinge bushings. The open design prevents the collection of dirt in the hinge. The angle of the lip allows a convenient support on the loading surface.

3 overall construction resistant to working stresses

As is the case with hydraulic dock levellers, the self-supporting steel joint construction is resistant to working stresses up to 60 kN as standard (rated load according to EN 1398). Particularly narrow versions up to 1500 mm can be loaded with max. 45 kN.

4 Simple operation

The platform is raised using the control bar.

The hinged lip folds out in an opposing movement and is positioned on the loading surface.

The force is within the limits set by EN 1398.

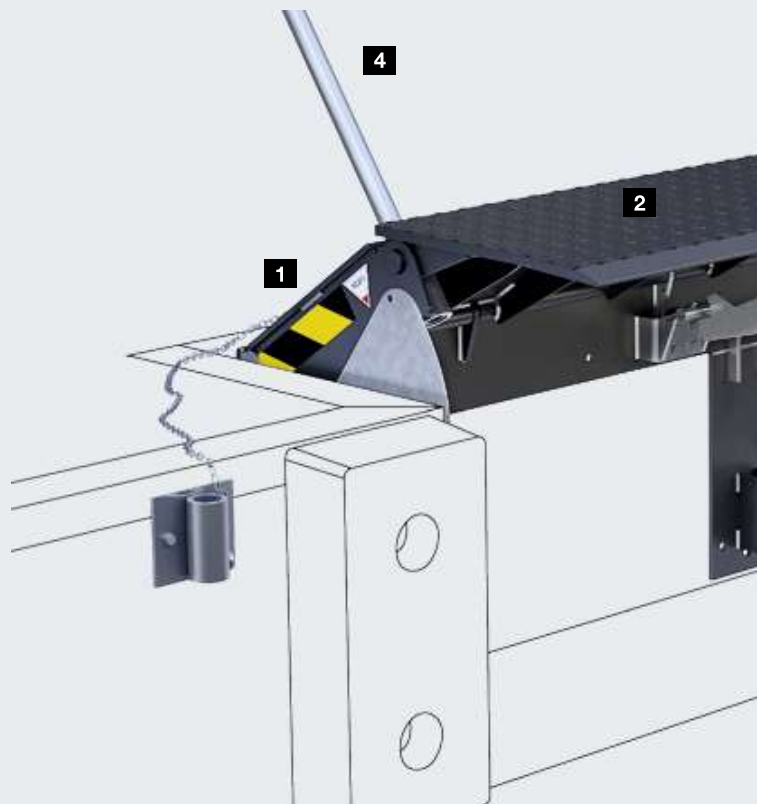
5 Gas spring support

The gas spring ensures counterbalance and facilitates the operation.

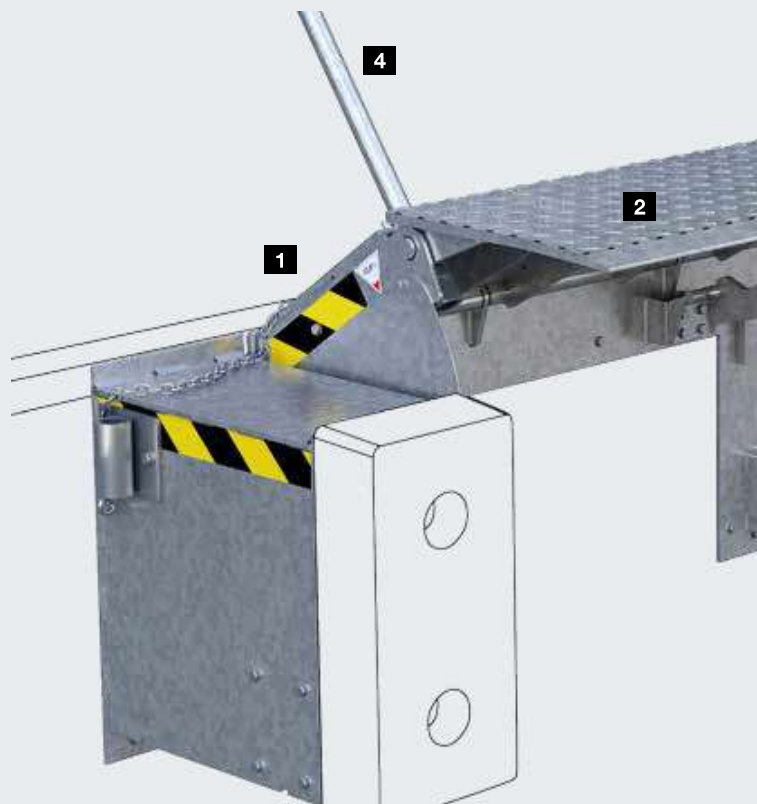
6 Corrosion protection

The steel surfaces are sandblasted and supplied in 2C PU-coated Traffic black RAL 9017. Upon request, the surface is also available in Ultramarine blue RAL 5002, RAL to choose or galvanized. The support brackets on the MRS dock leveller are generally galvanized.

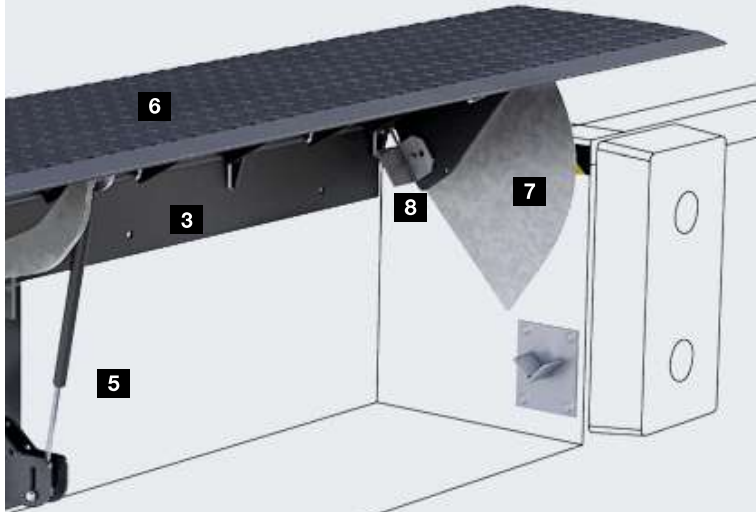
Tip: We generally recommend the galvanized version for dock levellers in outdoor areas.



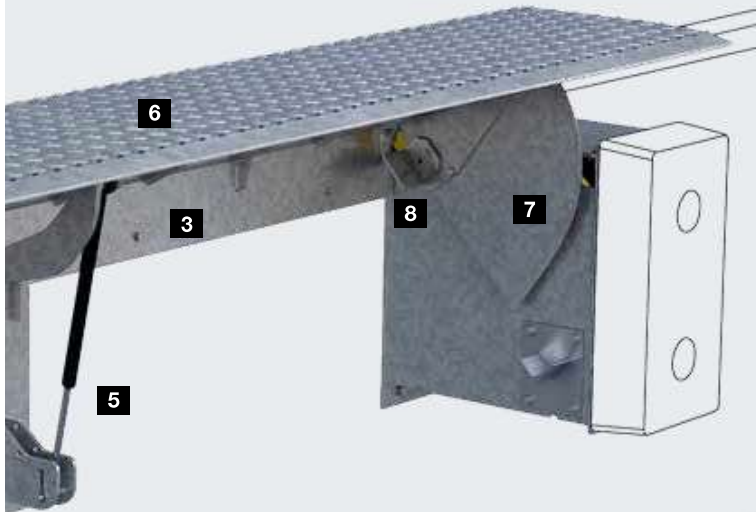
Mechanical dock leveller MLS in Traffic black RAL 9017



Mechanical dock leveller MRS-V in galvanized version



Tip: Protect the ramp and vehicles with buffers, preferably type DB15 or DB15 PU with a depth of 100 mm. Ensure a sufficient support depth (at least 100 mm) on the loading surface.



Tip: For MRS dock ramps, use a flap dock shelter e.g. DSS, with at least 900 mm depth to bridge the fitting depth of the side brackets and buffers.

Reliability through safety components

7 Foot guard plates

Side sheets prevent the foot from becoming trapped between the loading platform and dock leveller.

Anti-slip profiling

Upon request, the platform and lip are additionally equipped with anti-slip coating in class R11 according to DIN 51130 made of Twaron fibre-reinforced polyurethane, if necessary also with sound-absorbing features.

Safety marking

The black-yellow marking indicates the working position.

8 Maintenance supports

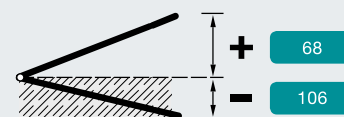
They allow the safe performance of maintenance work.

Simple, safe and reliable to fit

- Supplied including lifting equipment for fork-lifts
- MLS: fitting by welding in a prepared pit. Alternatively with casting box: self-supporting base frame, closed on three sides, provided with edge brackets and anchors for fitting by casting in an on-site timber mould.
- MRS: fitting by welding in front of the loading platform. Side support brackets, either vertical (MRS-V) or horizontal (MRS-H), with screw-in sleeves for easy buffer fitting

Working range and dimensions

	MLS, MRS				
Working range	At max. 12.5 % slope according to EN 1398: above level 68 mm, below level 106 mm				
Ordering widths (mm)	1250	1500	1750	2000	2250
Overall length dock leveller (mm)	Approx. 735				
Positioning (mm)	Approx. 150				
Depth of support brackets	Type MRS: 435 mm without buffers				



All dimensions in mm

Hydraulic dock levellers

With changing vehicles and larger height differences to the building floor

1 Flexible, load-bearing platform

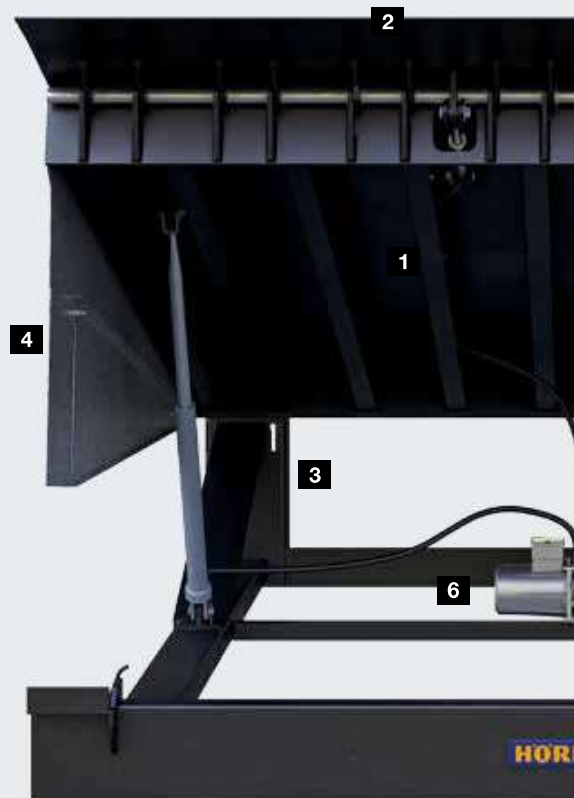
- The S 235 moulded steel platform is made of a single piece up to a size of 2000 × 3000 mm. With wider and longer dock levellers, a carefully made weld seam joins the plates, resulting in a continuously sturdy platform.
- Precise profile dimensioning on the bottom platform edge and dual cylinder hydraulics enable an extremely high capacity for torsion without sacrificing stability. This allows the dock leveller to move along with the lorry loading surface, even with asymmetrical side inclinations. The number and design of the girders prevent deformation (track groves) beyond the degree required by EN 1398.
- The platform on hinged lip dock levellers is 6 / 8 mm thick as standard, 8 / 10 mm thick on telescopic lip dock levellers. On request, a 8 / 10-mm-thick platform is also available for hinged lip dock levellers e.g. to avoid deformation when reach trucks regularly roll over the platform.

2 Sturdy lip

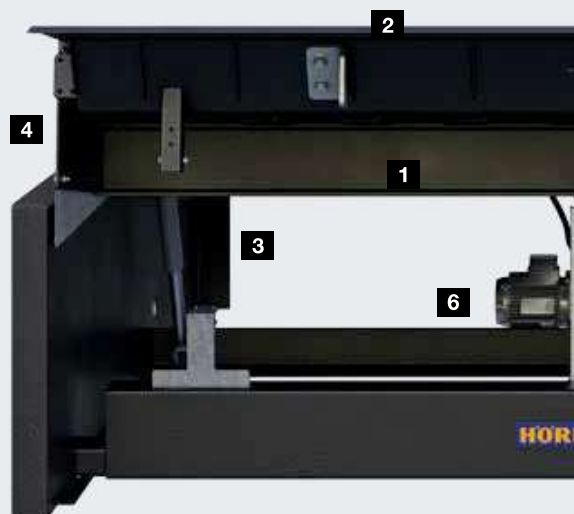
- The hinged lip and telescopic lip are made of running plate from a single piece.
- The lip made of moulded steel S 355 JO fulfils all requirements with a thickness of 12 / 14 mm.

3 overall construction resistant to working stresses

- The dock leveller can be loaded as standard up to 60 kN, optionally up to 90 kN (rated load according to EN 1398). For particularly heavy goods, the hinged lip dock leveller can also be supplied for rated loads up to 180 kN.
- The dock leveller is designed for a temperature range of -10 to +50°C in the area of the hydraulic system, i.e. below the dock leveller. The use of special oils makes sense at low temperatures.



Hinged lip dock leveller, type HLS 2 pit model P
for fitting by welding



Telescopic lip dock leveller, type HTL 2 frame model FR
with self-supporting base frame for fitting by casting