



Modular dock leveller DLE-M

The electro hydraulic dock leveller with sliding (telescopic) lip.

Features

- Very robust and reliable
- Self-supporting base frame
- 4-switch operation with “auto-return”
- 2 main cylinders and 1 lip cylinder
- Large variety of models and options
- CE mark and conform to EN 1398

Operation

With a 4-switch operation, the movement of the platform and telescopic lip can be individually controlled and they can therefore be accurately moved to the required position.

The operation is very simple. By keeping the 'raise push button' pressed, the platform moves up from the rest position until it reaches the correct loading height. By means of the 'lip out push button', the lip can subsequently slide onto the truck floor until the desired support is realised. When the button is released, the platform and lip will descend automatically to the level of the vehicle bed.

The telescopic lip is fixed into position after being extended to avoid the lip from moving away from the truck floor during loading and unloading. During loading and unloading, each up and down (suspension) movement of the vehicle is automatically followed.

After the loading and unloading process has been completed, by continuously pressing the 'R-button' the dock leveller can be returned to the rest position. In this position, the DLE-M rests onto sturdy steel supports to prevent the platform from lowering unexpectedly as a result of load stress by cross traffic.

The dock leveller DLE-M is also suitable to load or unload so-called last cargo below the dock level.

Materials

Platform and lip are made of high-quality durbar plate: durbar plate 8/10 for the platform and durbar plate 12/14 for the lip. Depending on the width, the telescopic lip is reinforced with six profiles in longitudinal direction. Ramps wider than 2000mm are reinforced by eight profiles. This ensures an optimum connection between lip and truck floor while a high lateral torsion of the platform is guaranteed.

The rear of the platform is connected to the lower frame by means of three hinges. Between the hinges, the platform is additionally supported for a smooth transition between platform and pit frame.

The self-supporting characteristics enable either an open or closed pit floor to be selected, or for a so-called letterbox opening to be used. Furthermore the front beam fixed to the lower frame provides protection for the hydraulic and mechanical components on the underside of the dock leveller.

Drive

The platform is powered by two hydraulic cylinders with chrome hardened plunger and double seal. The telescopic lip is powered by a separate, double acting cylinder. The hydraulic system is completely closed and cannot, even under the most extreme circumstances, be affected by dirt, sand or dust. Thanks to the over sized cylinders, a low working pressure of approximately ± 100 bar is created.

The compact hydraulic power pack is positioned under the platform to prevent it from any possible damages.

All these characteristics ensure a safe hydraulic system with a long life span and a minimum of maintenance.

Building-in possibilities

Because of varying client requirements and constructional elements, a large range of build-in possibilities can be offered, such as a suspending (hang-in) frame, box model, prefab concrete elements, steel stand and dock pods. By making the correct choice, considerable cost savings can be made. Detailed build-in drawings are available on request.

Dimensions

The DLE-M dock leveller can be supplied to customer specifications. For the standard types with a height of 700 or 1000 mm, eight platform sizes are available.



BH = building height O = effective working range above platform
L2 = platform length U = effective working range under platform

L2	BH	500 mm lip		1000 mm lip (*)	
		O ±	U ±	O ±	U ±
3500	700	375	365	435	405
4000	700	350	350	400	385
4500	1000	400	640	450	700
5000	1000	400	640	450	700

Platform width: 2000 or 2250 mm All dimensions in mm
(*) Optional

Standard safety provisions

- Full hydraulic safety stop
- Emergency stop switch with reset facility (panic stop)
- Fixed toe-guards
- Sturdy steel supports for transverse movements (cross traffic)
- Black/yellow safety markings
- Maintenance strut
- Motor safeguard by means of a thermal relay
- Control panel instruction symbols

Technical specifications

Standards.....	CE
Capacity (EN 1398).....	60 kN
Building height.....	700, 1000 mm
Lip length.....	0-500 mm
Lip angle.....	$\pm 5^\circ$
Motor.....	0,75 kW
Power supply.....	400 V / 50 Hz / 2,5 A
Control current.....	24 VDC
Protection class.....	IP 54
Working pressure.....	± 100 bar
Outside diameter main cylinder.....	50 mm
Outside diameter main cylinder(L2>=4500 mm).....	110 mm
Outside diameter lip cylinder.....	50 mm
Operating temperatures between.....	-30° and +50°
Standard colour.....	RAL 9005 black

Options / accessories

- Various types of pit construction
- Special dimensions
- Air seals on three sides of the platforms
- Primer
- Mandurax anti-slip coating on deck and lip
- RAL colour as required
- Polyurea anti-slip and soundproofing coating on deck and lip
- Bottom side of the platform provided with PU insulation
- Other voltage
- Tapered lip on both sides
- Sliding side segments 1:1 on the lip to adjust to different vehicle widths
- Greater lip length
- Hot dip galvanised
- Rest position switch for control of traffic light, door, etc.
- Dock leveller-/door interlocking
- Upgraded protection class