

## 253NG Dock Leveller



### Modular Combidock Leveller

The latest generation of electro-hydraulic Combidock Levellers with telescopic slide.

#### Features

- Suitable for delivery vans carrying loads up to 2000 kg and lorries up to 6000 kg.
- The lip is segmented in three parts to enable loading of delivery vans.
- Standard weight compensation upwards and downwards for the leveller when loading and unloading delivery vans.
- Working range to 1350 mm
- Very robust and reliable
- Self-supporting lower frame
- Mandatory selection between loading and unloading lorries and delivery vans by way of 6-button control with 'auto-return'.
- Acoustic signal for exceeding the load capacity in the 20 kN position.
- 2 deck cylinders and 2 slide valve cylinders
- Selection of finishes and options
- CE marking and EN 1398 compliance



### Special features of the Combidock

With the lip being divided into three sections, the leveller can be used for loading both lorries and delivery vans.

When loading delivery vans the weight of the leveller will be compensated, to prevent the van from over-loading



### Operation

The continuously variable 6-way control button controls all the platform movements, as well as the telescopic slide valves that can be moved into any position. The hydraulic unit activates both the platform and the slide valve independently.

The controls are extremely easy to operate. A selection must initially be made for either the 60 kN or the 20 kN mode by pressing one of the buttons. By holding down the 'up-button', the platform rises from the rest position up to the desired height. With the 'out-button' the slide can be slid against the lorry or delivery van floor to the desired position. Once the button is released, the platform lowers and the slide automatically goes to the level of the lorry floor.

While in the 60 kN mode during loading and unloading, the up and down movements of the lorry (suspension) are automatically followed. While in the 20 kN mode, the leveller weight is compensated to ensure a maximum of 100 kg is put on the delivery van. This occurs whenever the delivery van rises up when the load is no longer on the leveller.

The extended position of the telescopic slide valve is fixed and cannot be pushed back, which prevents the slide valve from sliding back from the lorry floor when loading or unloading.

Once the loading or unloading is complete, the Dock Leveller can simply be put back to the rest position using a single button (R button). As soon as the 253NG is in the rest position, the robust supporting legs allow cross traffic.

The 253NG Dock Leveller is also ideal for loading and unloading so-called end-freight under loading bay level.

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### Materials

Platform and slide are made from high quality tear plate: tear plate 8/10 for the platform and 12/14 for the slide. Depending on the width, the 253NG slide is reinforced lengthwise with eight profile sections. This guarantees an optimal connection between the slide and the lorry floor, while the giving the platform high lateral torsion.

Thanks to the self-supporting design, you can choose an open pit floor with a so-called letterbox opening. The front beam on the lower frame also protects the hydraulic and mechanical units under the Dock Leveller.

### Drive mechanism

The platform is moved by two hydraulic cylinders fitted with chromed hardened plungers and double seals. The telescopic slide is driven by separate double-acting cylinders.

The hydraulic system is completely sealed and cannot be affected by dirt, sand or dust even in the most extreme conditions. The working pressure is only  $\pm 100$  bar thanks to the over-sized cylinders.

The compact hydraulic unit is mounted on the Dock Leveller platform and protects it from damage from external sources.

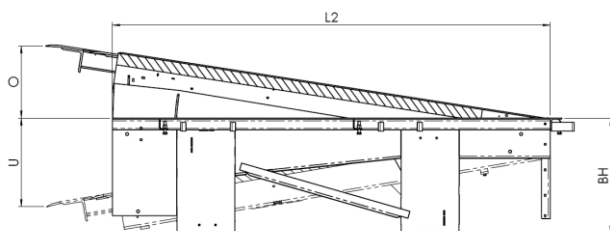
The result of all these features is a safe hydraulic system with a long life-cycle and low maintenance requirements.

### Installation alternatives

There are also a number of extra installation possibilities for customer-specific requirements and on-site structural elements, including built-in frame, prefabricated concrete elements, opening frames and load housings. Great saving can be made on construction costs by making the right choice. Detailed installation drawings are available on request.

### Dimensions

The 253NG Dock Leveller can be made to the customer's specifications. There are six different platform dimensions available with the standard model. In the 60 kN mode, the slide width is 1960 / 2210 mm and in the 20kN mode, the first 300 mm of the slide is 1200 mm wide.



BH = profile

O = effective working range above loading bay

L2 = platform length U = effective working range under loading bay

In compliance with EN 1398 it is not permitted to operate the Dock Leveller where the slope on the platform exceeds 12.5% ( 7°)

L2	BH	500 mm		1000 mm (*)	
		O±	U±	O±	U±
3000	800	480	600	560	690
4500	900	540	660	600	720
6000	1000	510	740	560	800

Platform width: 2000 or 2250 mm  
All dimensions in mm

### Standard safety devices

- Full hydraulic safety stop
- Main switch (can also be used as emergency switch)
- Fixed and moving toe guards
- Robust adjustable support legs for cross traffic
- Black/yellow safety markings
- Permanent maintenance support
- Thermal relay electric motor protection
- Operating pictograms
- Mandatory selection of operating mode
- Acoustic signalling for overload in 20 kN mode

### Technical data

Standards.....	CE certified
Capacity (EN 1398).....	60/20 kN
construction Height.....	800-1000 mm
Sliding length.....	0-500 mm
Lip angle .....	$\pm 5^\circ$
Motor.....	1.1 kW
Power supply.....	400 V / 50 Hz / 2.5 A
Control current.....	24 VDC
Protection class.....	IP 54
Sealed hydraulic system.....	$\pm 100$ bar
Outside diameter main cylinders.....	65 mm
Outside diameter lip cylinder .....	50 mm
Operating temperature between.....	$-30^\circ$ & $+50^\circ$
Standard colour.....	RAL 9005 black

### Options/accessories

- Various types of pit construction, pit 310, 330 & 360
- Special dimensions
- Air seal on three sides of platform
- Primer
- RAL colour as selected
- PU insulation underneath the upper deck
- Other voltage
- Tapered lip on both sides (l x b = 200 x 100 mm)
- Longer slide length
- Galvanized finish
- Rest position switch for the controlling traffic light, door, etc.
- Leveller / door interlocking
- Raised IP value