

TELESCO

DOCK LEVELLER MODEL

It is the perfect link between the warehouse and the loading vehicle. The system of telescopic lip bridges the void between the ramp and the truck bed, even for large distance between them. It is very suitable for refrigerated warehouses, where it is necessary to keep the temperature or places where a perfect locking is required when the loading dock is not in use. The telescopic lip allows the door to go past the ramp and be closed without leaving gaps through which outside air could come in.

As the procedure to be fixed to the construction is by a frame attached to the floor, the task of assembling and maintenance becomes very easy.

Standard sizes

Stackable lip

STRUCTURE

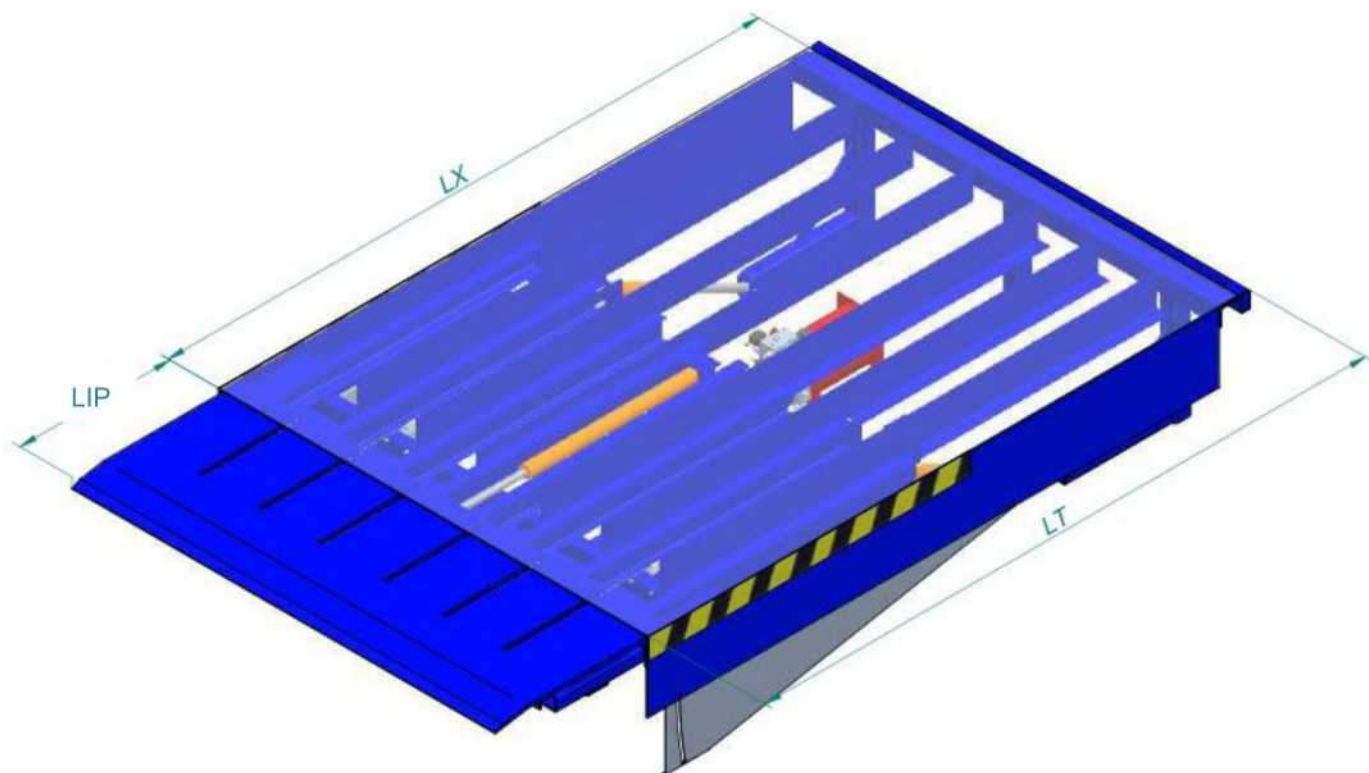
Element		Material	Details
Frame			Composed of steel angular profiles, with anchoring brackets.
Base			Tubular profiles of hot-dipped laminated steel.
Platform	Deck	Steel stud sheet	Non-slip sheet.
	Support	Steel	Structure of angular profiles supported on U-shaped crosses.
	Lip	Steel stud sheet	Supported on beams IPN.
	Shaft of hinges	Steel	Ø29 mm with bichromated or zinc-plated finishing.

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

Options	
✓	Fastening frame built with steel angular profiles, with anchoring brackets. Painted in blue RAL 5010 or hot-dipped galvanized steel or stainless steel.
✓	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.
✓	Standard rubber bumpers (see bumpers catalogue to choose the most suitable model to the installation).

The larger the ramp is, the beams will be reinforced proportionally.

PRODUCT DIMENSIONS



Model	Ramp				Pit		
	Width (LP)	Sheet length (LX)	Total length (extended lip) (LE)		Total length (folded lip) (LT)	Width	Length
			Lip 700	Lip 1000			
Telesco R 20.21	2000	2250	3000	-	2300	2040	2310
Telesco R 20.23	2000	2450	3200	3500	2500	2040	2510
Telesco R 20.26	2000	2750	3500	3800	2800	2040	2810
Telesco R 20.28	2000	2950	3700	4000	3000	2040	3010
Telesco M 20.31	2000	3250	4000	4300	3300	2040	3310
Telesco M 20.33	2000	3450	4200	4500	3500	2040	3510

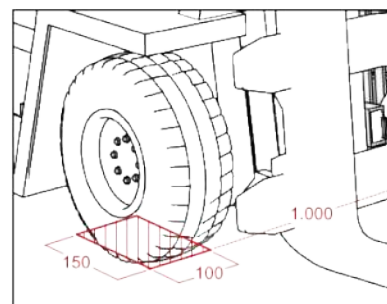
All units in mm

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

Element	Units	Value
Lip length	mm	700 / 1000
Maximum dynamic load	Tn	6
Side warp allowed	mm	± 100

Note: In accordance with the UNE-EN 1398 standard, our ramps are designed to withstand the dynamic effects of the moving truck and the safety factor on the elastic limit. Axial loads are calculated following the same standard. In a 6 Tn ramp they correspond to a double footprint of 100x150mm, separated 1,000 mm from each other.

For larger loads the footprint varies.



MOTORISATION

- × **Cylinders**
 - ✓ Two cylinders for lifting the platform
 - ✓ Double-acting cylinder for the lip movement

- × **Motor – pump:**

Element	Characteristics
Voltage in volts	230 / 400 V three-phase.
Frequency in Hz	50 Hz
Power	1... 1.8 CV / 0.73... 1.32 kW, depending on ramp size.
Flow	1.5 cm ³ /rev
Maximum operating pressure	170 bar
Oil deposit	5 L
Oil (thickness at 40°C)	32 cSt
Hydraulic logic block	Sequentially, allowing control on all movements.
Valves located in the manifold	<ul style="list-style-type: none"> ✓ Pressure controller. ✓ Lip speed controller. ✓ Speed controller for the ramp lowering. ✓ Safety controller.
Blockage electrovalve	In absence of voltage or emergency stop.
Protection	IP54

- × **Motor's power depending on leveller model:**

Model	Motor	
	50 Hz	60 Hz
Telesco R 20.21	1 CV / 0.73 kW	1.5 CV / 1.1 kW
Telesco R 20.23	1 CV / 0.73 kW	1.5 CV / 1.1 kW
Telesco R 20.26	1 CV / 0.73 kW	1.5 CV / 1.1 kW
Telesco R 20.28	1 CV / 0.73 kW	1.5 CV / 1.1 kW
Telesco M 20.31	1.5 CV / 1.1 kW	2 CV / 1.5 kW
Telesco M 20.33	1.5 CV / 1.1 kW	2 CV / 1.5 kW

These powers are generic. The exact power of the dock leveller will not be known until tested in factory.

ELECTRICAL SYSTEM

Control panel	
Model	RS300V, electronic.
Keys on exterior cover	Switches to lift the ramp, and output and input of the lip. Auto-return switch for automatic collection. Voltage breaker.
Hydraulic unit supply	Through power contactor. .
Contactor maximum load capacity	2.2 kW, 6 A
Blockage	In case of power cut.
IP box	PVC, with polyamide cable glands in entrances and exits.
IP box protection	IP 65
Voltages	Power supply: 230 / 400 V three-phase Manoeuvre: 24 V
Connectable accessories	Blockage signal because door closed.
Protection provided by owner / customer	Maximum 10 A, characteristic K.
Control panel electrical installation to the motor	Installation protected from the panel to the ground, through metal IP box.

Control panel – optional	
Model	MT3V, electromechanical
Keys on exterior cover	Switch to lift the ramp, and output and input selector of the lip. Voltage breaker.
Hydraulic unit supply	Through power contactor.
Contactor maximum load capacity	6 A
Blockage	In case of power cut.
IP box	ABS, with polyamide cable glands in entrances and exits.
IP box protection	IP 66 offset with cable glands.
Voltages	Power supply: 230 / 400 V three-phase Manoeuvre: 24 V
Maximum central consumption	0.9 A
Connectable accessories	Blockage signal because door closed.
Control panel electrical installation to the motor	Installation protected from the panel to the ground, through metallic IP box.

OTHER CHARACTERISTIC ELEMENTS / QUALITIES / OPTIONS

- ✓ Includes supports for the handling, by forklift, when installing it on place.
- ✓ PVC inner flap, for signalling the way out movement of the lip. It hides and protects the bottom of the dock leveller

× 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 or standards.

STANDARD electrical characteristics	
Voltage V	230 / 400 V three-phase
Frequency Hz	50 Hz
Power kW	0.83... 1.6 kW, depending on the ramp size.

SAFETY

Safety	Used procedure
Spring safety valve in the main cylinder	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.
Operating lock relay	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 lock 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