



GENERAL CATALOG

- ▶ Loading dock safety
- ▶ Transshipment equipment

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EXPRESSO France SAS | Design | Realization | Installation | Servicing A-S service

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LOADING DOCK SAFETY

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WEDGING AND SIGNALIZATION



1.1. WHEEL CHOCK FOR TRUCKS

Rubber wheel chock - Ref. CLCC200

Very strong molded rubber wheel chock with handle and fixings to add a retaining chain. Resistant to UV, salts, oils, fuel and ozone.

Wheel chock CLCC200 accessories:

- Steel wall stand SUCL200 : This metallic frame allows to store the wheel chock before and after use. It is delivery with 2 fixing plugs and a 6 m standard retaining chain (different length on demand).



Steel wheel chock - Ref. CLAC001

- ▶ Very strong design
- ▶ Anti-slip rubber under the wheel chock for a good grip on the ground
- ▶ Metallic handle
- ▶ 2 brackets for fixing a retaining chain



Wheel chock CLAC001+ Accessory : Yellow handle with stop sign Ref. ACCL10

Accessory : Polyamid castors and handling lever kit

Wheel chock CLAC001 accessories :

- 6 m chain
- Wall stand for wheel chock Ref. SUCL6001 that allow to store the wheel chock before and after use. (Delivery with the chain and 2 fixing plugs).
- Kit : handling lever, Ø100 mm polyamid castors and stop sign.
- Yellow handle with stop sign Ref. ACCL10.

Model	Length	Width	Height	Weight
Rubber wheel chock CLCC200	254 mm	185 mm	193 mm	6 kg
Steel wheel chock CLAC001	390 mm	208 mm	220 mm*	10 kg

(* Height including rubber)



Wheel chock CLAC001 with yellow handle and stop sign on the wall stand accessory SUCL6001



Wheel chock CLAC001 with lever and castors kit

1.2. ELECTRIC WHEEL CHOCKS

Electric curve wheel chock CLEL6x

- ▶ Steel electric wheel chock with servo control dock leveller, door or other. Standard handle and anti-slip rubber under the wheel chock. Delivery with 6m cable.
- ▶ Option : Kit : handling lever, Ø100 mm polyamid castors and stop sign Ref. LVCL501 / RLCL501

Galvanized wheel chock with eccentric CLEL73x

- ▶ Electric wheel chock with steel handling eccentric lever
- ▶ Rubber stop sign
- ▶ Polyamid castors Ø160 mm
- ▶ Anti-slip rubber under the wheel chock
- ▶ Wheel chock CLEL736 : 1.5 m high strength spiral cable stretchable to 6.5 m
- ▶ CLEL731 : simple 7m cable
- ▶ CLEL734 : cable with 10m automatic cable reel
- ▶ CLEL735 : cable with 20m automatic cable reel
- ▶ Wireless wheel chock CLEL737 (no need cable or automatic cable reel), a transmitter is present in the wheel chock and a receiver in the control box

Accessories :

- Galvanized plate with slots for hanging 1000 x 360 mm Ref. ACCL7021
- Metallic chain to protect the cable and the wheel chock
- 10m or 20m automatic cable reel
- Steel protection above the cable reel



Benefits of the product

When it is in contact with the wheel of the truck, the electric wheel chock has a detection system to activate a transmitter (wired or wireless) to a servo control system of traffic lights and/or other handling equipments.

The handling eccentric lever allows to easier remove the wheel chock from the wheel of the truck in 2 or 3 movements back and forth up and down !



Steel protection above the 10m cable reel



20m cable reel

Model	CLEL6xx	CLEL73x
Height	214 mm	250 mm
Length	410 mm	390 mm
Width	210 mm	235 mm
Weight	12 kg	23 kg
Castors diameter	100 mm	160 mm



Wheel chock CLEL737 on galvanized plate with slots



Wheel chock CLEL737

1.3. VISUAL AND WEDGING KIT

Visual kit - Ref. KIFE720 / KIFE800

The visual and wedging kit allows to secure economically the loading docks by the implementation of a light signalling system coupled with a wheel chock. The door or the dock leveller are servo controlled to the wheel chock according to a predefined logic diagram.

- ▶ Electric wheel chock with eccentric CLEL7xx or universal with eccentric CLEL8xx with their standard equipment : handling eccentric lever, Ø160 mm castors, stop sign and rubber anti-slip under the wheel chock
- ▶ Electrical command box with integrated buzzer and light indicator "Chocked"
 - Power supply (provided by customer) :
Main supply voltage 230 ou 400 V 50 Hz (to specify when ordering) + earth / Control voltage : 24VDC
 - switch "PIT operator authorization" on the front side of the control box
 - Dock leveller working authorization
- ▶ External signalling :
Bicolour LED traffic light (red / green) Ø100 mm / IP65
- ▶ Internal signalling :
Red and green LED lights Ø65 mm on the control box

Options :

- Inductive sensor "Lip in rest position" or limit switch "Leveler in rest position" (replace the switch Pit operator authorization)
- Optical sensor "Door closed" (CRAM recommendation)
- Optical sensor "Door open" to avoid deterioration of the door panels
- BETJ70 Wireless trailer jack stands with servo control system
- Arrow sticker for traffic-light

Benefits of the product

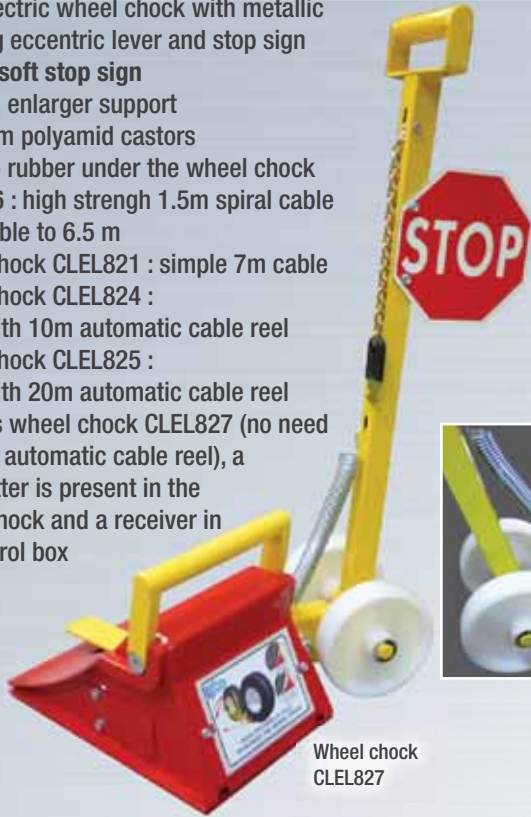
The system ignores the type of equipment using to make the link between the dock and the trailer. With dock levellers, ramps or other, it is possible, thanks to the kit, to ensure the safety of people. The system can be use in all weather from -15°C to 50°C.



1.4. UNIVERSAL WHEEL CHOCK

Universal wheel chock - Ref. CLEL8x

- ▶ Steel electric wheel chock with metallic handling eccentric lever and stop sign
- ▶ Rubber soft stop sign
- ▶ Rotating enlarger support
- ▶ Ø160 mm polyamid castors
- ▶ Anti-slip rubber under the wheel chock
- ▶ CLEL826 : high strength 1.5m spiral cable stretchable to 6.5 m
- ▶ Wheel chock CLEL821 : simple 7m cable
- ▶ Wheel chock CLEL824 : cable with 10m automatic cable reel
- ▶ Wheel chock CLEL825 : cable with 20m automatic cable reel
- ▶ Wireless wheel chock CLEL827 (no need cable or automatic cable reel), a transmitter is present in the wheel chock and a receiver in the control box



Wheel chock CLEL827



Easy to remove thanks to the eccentric lever

Benefits of the product

The rotating enlarger support allows, when it is in upper position, to chock the big diameter wheels.

When it is folded on the front (in the lower position), thanks to its lower height, the wheel chock can easily be put under the mudguard of LCV* and can chock small and medium wheels.

(* Sometimes because of wheel guides, it is impossible to chock the rear wheel. In this case the wheel chock has to be put on the front wheel where the ground clearance is often reduced.



Wireless technology

Model	CLEL8xx
Height (Big wheel) rotating enlarger support raised	273 mm
Height (small wheel) rotating enlarger support down	190 mm
Wheel chock width	235 mm
Weight	22 kg
Polyamid castors diameter	160 mm



BIG WHEEL

SMALL WHEEL

1.5. DEPOT SYSTEM FOR WHEEL CHOCK – TYPE CALEBOX

CaleBox Depot system - Ref. ACCL000174

Benefits of the product

The CaleBox depot system allows to store the wheel chock (presence check) and especially to manage the use of the wheel chock with a token lock system and an orange fire light. The token is provided to the driver of the truck by the operator of the site in exchange for an ID card that will be returned to its owner after storage of the wheel chock and restitution of the token.

- ▶ CaleBox depot system for wheel chocks CLEL7xx et CLEL8xx,
Height without traffic-lights : 1000 mm
Height with traffic-lights : 2000 mm
Length x width : 600 x 300 mm
- ▶ Token lock system with contactor
- ▶ Buzzer
- ▶ Orange signalling light
- ▶ Equipped to the electrical connection, with cable or optional with 10 or 20m automatic cable reel
- ▶ Wedging procedure (for drivers) on the CaleBox Depot system



Options :

- CaleBox depot system with wireless receiver and wireless wheel chock
- 10m or 20m automatic cable reel
- Nestable support for bicolor LED traffic light - Ref. SUFE003

CaleBox “Mini” wall version - Ref ACCL000172

The depot system CaleBox “Mini” (metallic frame 175 x 175 x 105 mm + ABS box 161 x 121 x 87 mm IP65) is designed to be fixed on the wall, near the dock. It allows to manage the traffic-light during the wedging operations.

The traffic-light and the wheel chock are included in the visual kit. The orange signalling light on the box of the CaleBox informs the user of the

See also : Token lock system wall version (see p 20).



Token lock system wall version

Ref. ACCL000191

This metallic frame 175 x 175 x 105 mm with token lock system is fitting near the dock. It allows to secure different type of products like wheel chocks, trailer jack stand, ...

The token given by the loading site administrator in return of a driving licence or ID, for example, will be give back after the storage of the wheel chock.



Token lock system wall version

1.6. GUIDANCE KIT WITH SOLAR ROAD LED LIGHTS

Benefits of the product

The solar LED light with dusk sensor-operated lighting used in this kit allowed to facilitate docking at night or when visibility conditions are unfavorable without coring and trenching.

Solar guidance kit

Réf. KIGR001

- ▶ Environmentally friendly and maintenance-free!
- ▶ 2 ultra-bright FLASH LED
- ▶ 1 reflector on the front
- ▶ 1 pot of Sikadur® for floor fixing
- ▶ Each solar light recharges the day with its solar cell
- ▶ Width 102 x Length 82 x thickness 20 mm
- ▶ Automatic lighting for light intensity less than 200 LUX
- ▶ Molded IP67 enclosure
- ▶ 1 reflector on the back
- ▶ 2 Ni-Mh batteries



Implantation :

- 2 white FLASH LED on the driver side
- 2 blue FLASH LED on the passenger side



Solar light KIGR001

**Ultra-bright
FLASH LED!**

1.7. DOCK GUIDING FOR TRUCKS

Truck detection kit - Ref. KISP0101

- ▶ 1 control box
- ▶ 1 tricolor LED traffic light to be fixed to the wall or on the last detector column
- ▶ 2 optical sensors with columns
- ▶ Options : - optical detector for the leveler or the door or a switch button "Ramp in rest position"

Benefits of the product

The truck detection kit ensures the protection of the dock, the equipments and the trucks. it allows to avoid shocks, which would damage the bumpers, nose of dock and of course the trucks. In addition, this kit consisting of lights and detectors, provides additional security by informing the driver on the steps of the transhipment.

- 1** Docking of the truck
 - The traffic light is green
 - The truck is moving back



- 2** When moving back the truck cuts the first laser beam (about 70 cm from the stop position)
 - The orange traffic light blinks
 - Imminent stop: the truck slows down



- 3** The truck cuts the second laser beam (about 5 cm from the stop position)
 - The traffic light turns red
 - The truck stops



- 4** - Positioning of the loading ramp
 - Beginning of transhipment



- 5** - Ramp in rest position, the operator presses a button to release the truck (turns the traffic light to green)
 (This button can be replaced with ramp detection when possible)

- 6** - the traffic light is green
 - The truck can leave the dock



STV dock leveler with a truck detection kit



1.8. LOADING DOCK LIGHTS

Halogen dock spotlight - Ref. PJQU60

The halogen dock spotlight in black lacquered steel with articulated arm in steel is swiveling thanks to three articulations. The wiring is inserted into the joint tubes.



Halogen light PJQU60

- ▶ Black lacquered steel floodlight 180 x 145 mm
- ▶ Swivel steel arm equipped with 3 joints for orientation
- ▶ IP54
- ▶ Wiring integrated in the joint tubes
- ▶ On hold cable length 1.5 m (supplied)
- ▶ On / off switch for wall mounting
- ▶ Bulb 230V - 300W R7S 11 x 118 supplied
- ▶ Power 230 V single-phased (+ earth)
- ▶ Length of extended arm 1200 mm
- ▶ Voltage: 230 V, Power: 230 W
- ▶ Energy class: C, 4650 lumens
- ▶ Lifetime: 2000 hours
- ▶ Weight: 8 kg

The Espresso spotlights are delivered assembled. Fixing of the base (by 4 screws not provided) as well as the connection of the switch are made by the customer. Electrical protection is the responsibility of the customer.

Benefits of the product

The dock spotlights allows to improve security of the staff during loading and unloading operations when inside trailer brightness is reduced or during night working time. They are replacing or coming in addition to eventual existing lights installed on the handling machines. Those, when existing, see indeed their efficiency most of the time limited by the transported load. It is then peremptory to install an extra dock spotlight.

EC products conform to the following directives:

Directive 2004/108/CE - Directive 2006/95/CE - Directive 2011/65/CE



LED loading dock spotlight for directional lighting - Ref. PJQU100

Installing an additional light allows to illuminate the most hazardous areas and to counteract the luminous contrasts requiring a pupil time adaptability, potential source of hazard.



Limit the risk of collision due to lack of lighting!
According to the Directive INRS ED6059

- ▶ 17 LED floodlight 24V DC, 50 Watt
- ▶ Polycarbonate glass Ø130 mm
- ▶ Extended length: 1150 mm
- ▶ IP64 floodlight
- ▶ Integrated Transformer 230 V, 24V DC, 80 VA
- ▶ Class 2
- ▶ IP55 On / off switch for wall mounting
- ▶ Lighting inside of trailers (10 m): 110 lux in conformity with INRS ED6059
- ▶ Lifetime: 25 000 hours
- ▶ Usable from -25°C to +55°C
- ▶ Black projector with articulated yellow handling arm
- ▶ Plastic operation handle
- ▶ Power: 230V single-phase
- ▶ Weight 9 kg

EC products conform to the following directives:
Directive 2004/108/CE - Directive 2006/95/CE - Directive 2011/65/CE

LED loading dock spotlight with a wide lighting angle - Ref. PJQU90



Provides illumination of areas thanks to its wide lighting angle

- ▶ L x H X D of the floodlight 260 x 182 x 40 mm
- ▶ Extended length: 1150 mm
- ▶ IP65 spotlight
- ▶ Power supply 230V AC 50 Watt (+earth)
- ▶ IP55 On / off switch for wall mounting
- ▶ Light restoration ≈ 4000 lumens
- ▶ Lifetime: 25 000 hours
- ▶ Usable from -8°C to +45°C
- ▶ White spotlight with yellow swivel arm
- ▶ Plastic operation handle
- ▶ Weight 7 kg

EC products conform to the following directives:
Directive 2004/108/CE - Directive 2006/95/CE - Directive 2011/65/CE





VEHICLE RESTRAINTS



1.9. STOP TRUCKS® - AUTOMATIC WHEEL BLOCKING



**BLOCKED TRUCK =
SECURE TRANSSHIPMENT**

The STOP TRUCKS®, patented system automatic wedging system for trucks, recognized for its reliability and its robustness is already in place on many sites in the industry, transport and services.

STOP TRUCKS®

Automatic intelligent
detection:

The blocking arm rises contactless against the tire. Once the arm deployed the mobile carriage begins to move back in front of the wheel then sticks to it. The locking height varies automatically depending on the diameter of the wheel to ensure an optimal locking. The trailer is blocked and can not accidentally leave the dock.



WATCH THE VIDÉO

Benefits of the product

- ▶ **Automatic detection of the wheel for an optimal truck locking.** The locking arm adapts to all types of wheels. The locking height changes automatically according to the diameter of the wheel to ensure an optimal locking of the truck while preserving mudguard.
- ▶ **Flat blocking arm** which can pass between the mudguards and the wheels of the trucks.
- ▶ **Fits all roadways⁽¹⁾** : Negative or positive slope. There is no element on the ground.
- ▶ **Blocking arm in position = Truck immobilized.** This prevents all risks of accidents or damage to the vehicle.
- ▶ **Blocks all types of trucks⁽²⁾**
- ▶ **Reduced civil engineering**, only two concrete studs (one at the front and one at the rear) are sufficient for a solid fixing of the monobloc frame.
- ▶ Before the truck locking, **no obstacle preventing the docking of trucks.**
- ▶ **It is not restricted (broken pallets) nor snow nor rising water up to 80 mm (complete immersion is optional).** The option "Complete immersion" for flood-prone areas, allows to the Stop Trucks® do not to be damaged by full immersion (Non-operational during immersion).

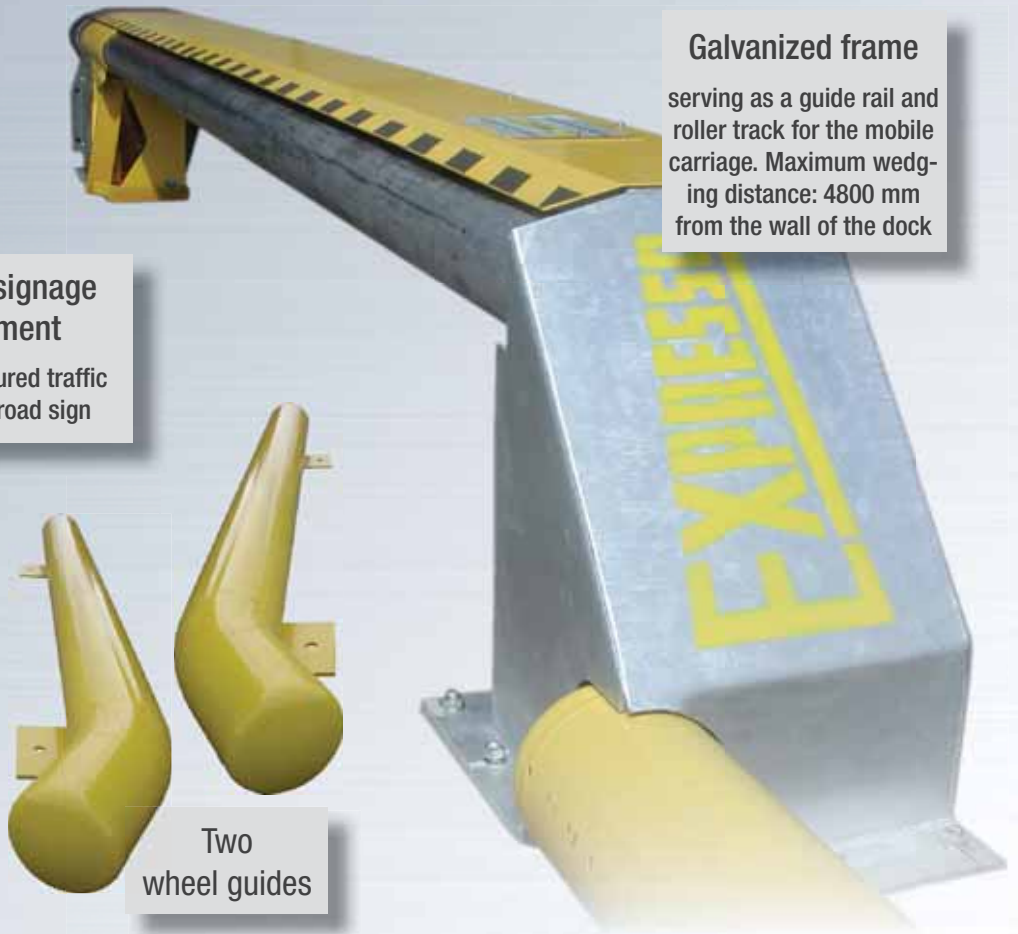
(1) In case of counter-slope, provide plans for feasibility study (2) sauf ceux entièrement carénés



1.10. STOP TRUCKS® COMPOSITION AND FUNCTIONING



Outside signage equipment
with bi-coloured traffic lights and road sign



Galvanized frame
serving as a guide rail and roller track for the mobile carriage. Maximum wedging distance: 4800 mm from the wall of the dock



Two wheel guides



Electrical box IP65
grouping together the buttons of command, the signalling internal lights and the buzzer.

Modèle	Stop Trucks®
Length	5565 mm
Total length with wheel guide	7650 mm
Maximum locking distance	4850 mm
Width (locking arm in rest position)	495 mm
Height	642 mm
Wheel guide length	2200 mm
Weight	995 kg



Mobile carriage
integrating all the components: equipped with an optical detector and a mobile blocking arm.

Blocking arm

Optical detector

Emergency Stop



The Stop Trucks® adapts to all road surfaces (Negative or positive slope)

1.11. COMBINED HYDRAULIC TRUCK LEVELER AND STOP TRUCKS®



The hydraulic truck leveler allows to lift or to lower the back of the trucks, Thus to adjust at will the height and the slope of the floor of load. Their implementation does not require civil engineering. Liveries ready for the installation, with electric control box integrating the commands "Up / Down".

Thanks to the truck leveler, there is no risk for the truck to damage the door of the dock, in case of high slope. It also allows to avoid the flow of the rainwater inside the warehouse by streaming on the roof of the truck, by inverting the slope.

hydraulic truck leveler:

- ▶ Supply : 380 V/Tri 50Hz + Earth
- ▶ Power supply : 1,5 Kw
- ▶ Control box : 1 push button type "Dead man", "Up - Down"
- ▶ 24V control voltage
- ▶ Emergency stop in all positions with reset button
- ▶ Lockable disconnect switch
- ▶ Système parachute de blocage de sécurité en cas de rupture de flexible

Benefits of the product

The combination Stop Trucks® and hydraulic truck leveler, ensures 3 important functions:

- ▶ **Wheel-guide function:** Canalize trucks for a good accosting in the axis of the post of load
- ▶ **Levelling function:** Flatness correction of the floors of truck and adjustment of optimal level
- ▶ **Function of safety:** Perfect immobilization of the vehicle during the operations of transshipment



1.12. MANUAL BLOCKING SYSTEM EXPRESSO

The manual blocking system patented by Expresso allows to secure the transshipment operations by blocking the truck at dock. Once in dock location, any untimely truck departure during loading/unloading operations is impossible, excluding all risks of staff or handling equipment falling down the dock.

- ▶ Manual blocking system
- ▶ Automatic lock up enslaved to dock equipments (leveler, door,...) in option.
- ▶ Outside signalling by bi-colour LED light and inside by LED bulbs on control box panel
- ▶ Warning buzzer on control box panel
- ▶ Outside information sign
- ▶ Very low maintenance required

Benefits of the product

Manual blocking is fast and easy.

The driver uses the manoeuvre arm to slide it up to the wheel and put it down to release it. Once the blocking arm is up in front of the wheel, lock up validation can be done by push-button on control box panel or automatically, by enslaved door or dock leveler.



BLOCKED TRUCK = SECURED TRANSHIPMENT



WATCH THE VIDÉO

The transshipment zones of goods (loading docks) with handling equipment, pedestrians and trucks are hazardous areas in which accidents can be fatal.



Blocking arm flat and very strong
who easily slides between wheels and mud-guards avoiding any damage onto it.



Telescopic operating lever



- ▶ High resistant hot galvanized frame
- ▶ Electrical control box 230V or 400V 50 hz + ground / 24V control voltage
- ▶ External signalling :
 - Bi-colour LED light (red/green) IP65 Ø100 mm
 - Locking light indicator at the base of the lever
- ▶ Internal signalling : LED bulb (red/green) Ø65mm mounted on control box panel.
- ▶ Optical sensors for leveler and door closed
- ▶ Warning buzzer on control box panel
- ▶ One right wheel-guide on opposite side ref. GRFI20515-galva
- ▶ Outside information sign
- ▶ Blocking height 420 mm
- ▶ Outside dimensions 3950 x 450 mm

Options :

- Optical sensor door opened
- Additional wheel-guide



Frame anchored on the ground on two concrete bases





PEOPLE SAFETY



1.13. ANTI-CRUSHING LOADING RAMPS AND DOCK LEVELER

OUR SOLUTION :

Refuge area (3 possible variants)

1) 800 mm telescopic lip dock leveler

Solution : Embed a telescopic lip leveler into the dock structure and install bumpers to create a 500 mm refuge area.

On the levelers type STV (see p 50) or STVP (see p 52), a deployed lip of 800 mm or more (in option) can cross the refuge area and align on the trailer floor.



Objective

Control the risk of crushing the body and/or the head between the dock and the trailer when the truck is moving back or between the trailer and the uprights of the dock door.

2) Anti-fall dock leveler with refuge area

Double protection :

- Anti-crushing system to protect people during the truck's approach
- Anti-fall protection for handling equipments thanks to its retractable obstacle (see p. 54).



3) Stationary drawbridge leveler on monobloc frame

The aluminium profile ramps type 8860 on monobloc frame (see p 77) or 8861/62 on external loading frame (see p 79) may have a refuge area to protect people against crushing (when the truck is moving back).

Monobloc or loading frame also allows the good docking of trucks and protects the leveler against abnormal manoeuvring of the trailers, thus guaranteeing the longevity of the equipment.



THESE 3 VARIANTS ALLOW TO FIT:

- to the standard NF EN 349 on the risks of crushing the human body
- to the Recommendation of INRS/CRAM ED6059



Telescopic lip mini-leveler with anti-squash safety zone - Ref. STVA (see p 68)



External loading frame for loading ramp 8861 with anti-crushing refuge area

1.14. SAFETY DOCK BARRIERS

Swivelling dock barrier ref. BQPI011

Swivelling dock barrier with two steel leaves to secure the area around the loading dock when the doors are open.

This dock barrier is very robust, it is designed for resisting heavy use.

The barrier can be equipped with an optional position detection system for door or dock leveler.



Intensive use

Benefits of the product

Loading areas safety

Dock falls can lead to serious accidents.

This dock barrier complies with the labor regulations relating to the staff safety (art. R233.45 and L230.2 of "Code du Travail").



- ▶ 90° opening manual barrier
- ▶ Leaf standard length 1500 mm (Possible length up to 2000 mm to be defined before the order)
- ▶ Swivel post H=1145 mm, 140 x 140 mm with black plastic square cap on top.
- ▶ Barrier tube Ø42 mm with stop sign
- ▶ Epoxy paint color finish : Mobile part : Yellow RAL1023 - Fixed part : Blue RAL 5003
- ▶ Option : manual opening from 90 ° to 270 ° in steps of 45 °

Barrier for delimitation area ref. BQST1820/30

Steel tube dock barrier which can be used as zone delimitations of warehouses and loading docks, with a simple fixing system with hooks to fix the barriers to each other. Two large steel legs of 500 x 100 mm ensure good stability.

Finishing : Epoxy paint yellow RAL 1023

Model	Length	Height	Weight
BQST1820	2000 mm	1800 mm	26 kg
BQST1830	3000 mm	1800 mm	34 kg

Autres dimensions possibles sur demande



1.15. STEEL LOADING DOCK STAIRS



Escalier de quai galvanisé

- ▶ Sheet steel structure and non-slip steps
- ▶ Fixing holes with plugs supplied
- ▶ Painted finish or hot-dip galvanized
- ▶ Standard options :

- Bearing in self-cleaning grating:
width 700, 800, 900 or 1000 mm
- Horizontal railings or handrailing:
Height 900, 1000, 1100 or 1200 mm



Standard models	Height	Width	Steps No.
ESQU000001	900 mm	700 mm	4
ESQU000002	900 mm	800 mm	4
ESQU000003	900 mm	900 mm	4
ESQU000004	900 mm	1000 mm	4
ESQU000005	1000 mm	700 mm	5
ESQU000006	1000 mm	800 mm	5
ESQU000007	1000 mm	900 mm	5
ESQU000025	1000 mm	1000 mm	5
ESQU000008	1100 mm	700 mm	5
ESQU000009	1100 mm	800 mm	5
ESQU000010	1100 mm	900 mm	5
ESQU000011	1100 mm	1000 mm	5
ESQU000012	1200 mm	700 mm	6
ESQU000013	1200 mm	800 mm	6
ESQU000014	1200 mm	900 mm	6
ESQU000015	1200 mm	1000 mm	6



Non-slip steps
(sheet steel structure)



Self-cleaning grating (option)



Special manufacturing - Mobile stair



1.16. WHEEL GUIDES

Galvanized wheel guides to bolt ref. GRFI2400

Optimize the docking of trucks : wheel guides ensure a perfect centring along the dock axis. This makes it possible to protect both the equipment (bumpers, leveller, shelters, but also the building itself).

- ▶ Galvanized steel tube strong construction $\varnothing 168 \times 4,5$ mm.
- ▶ 3 support points : baseplates 350 x 350 mm thickness 8 mm
- ▶ Dowel fixing on the ground or on concrete blocks

Benefits of the product

Anti-crushing ! The wheel guides, by guiding trucks, allows to prevent a person from being crushed between 2 vehicles ! The wheel guides ensure the protection of vehicles, equipments and people



Universal wheel guides - Ref. GRFI24140

The symmetric construction allows installation on the left or right side.

- ▶ Strong construction steel tube $\varnothing 140 \times 4$ mm
- ▶ Finish : galvanized or powder coating yellow RAL 1021
- ▶ 2 support points, baseplates 250 x 250 mm thickness 8 mm
- ▶ Dowel fixing on the ground or on concrete blocks
- ▶ No civil engineering on concrete floor



Model	GRFI2400	GRSC2400	GRFI24140 Galva. or yellow	GRSC24140	GRBE3000 (concrete)
Length	2400 mm	2210 mm	2400 mm	2400 mm	3000 mm
Total height	300 mm	800 mm	265 mm	765 mm	300 mm
Height from the ground	300 mm	300 mm*	265 mm	300 mm*	300 mm
Weight per unit	71 kg	73 kg	36 kg	40 kg	660 kg
Diameter	168 mm	168 mm	140 mm	140 mm	-



Wheel guides to bolt GRFI2400



Universal wheel guides GRFI24140 yellow powder coating

Concrete wheel guides - Ref. GRBE3000

- ▶ Reinforced concrete 300 kg/m³
- ▶ Length 3000 mm
- ▶ Height 300 mm
- ▶ Width 250 mm
- ▶ Forklift pockets
- ▶ Fixing hole Ø80 mm for ground anchoring
- ▶ Delivered with anchor irons and quick setting mortar



Benefits of the product

Concrete wheels guides are highly resistant to shocks, their rounded shape allows not damage the trucks in case of bad trajectory. The wheel guides ensure the protection of vehicles, equipments and people.



Implementation on concrete or macadam ground

Photo non contractuelle

Concrete-embedded galvanized wheel guides Ref. GRSC2400

This model of wheel guide In galvanized steel tube is designed to be sealed in concrete, it has anchoring tabs to seal.



- ▶ Strong construction, galvanized steel tube Ø140 x 4 mm
- ▶ Off anchoring tabs (for casting into concrete)
- ▶ Overall height 800 mm
- ▶ Recommended height above the ground : 300 mm
- ▶ Other features: see table on the left page

Universal concrete-embedded galvanized wheel guides - Ref. GRSC24140

- ▶ Strong construction, galvanized steel tube Ø140 x 4 mm
- ▶ Off anchoring tabs (for casting into concrete)
- ▶ Overall height 765 mm
- ▶ Recommended height above the ground : 300 mm
- ▶ The symmetric construction allows installation on the left or right side. Delivered by pair, folded off anchoring tabs.



Reversible Wheel guides

Delivered in pairs, Off anchoring tabs folded





SAFETY TRAILER JACK STANDS AND TRESTLE TRAILER JACK



1.17. SAFETY TRAILER JACK STAND - TYPE JACK B/H/SB

- ▶ Screw lifting cylinder (flat thread) and reversible ratchet
- ▶ Lifting jack function :
It can be used as a jack, for example, if the standing legs of the trailer are too deeply setted in the ground.
- ▶ Hinged resting surface or “hats” Ø160 mm to compensate the eventual ground inclination.
- ▶ 2 rubber wheels fitted with roller bearings.
- ▶ Detachable operating handle
- ▶ OPTION : Larger resting “hat” Ø250 mm

How to use :

- 1) Never install the safety stand before complete uncoupling of the trailer.
- 2) Ensure that the wheels of the trailer are locked by a manual wedge or an automatic wedging system (see p 25) and that the trailer is stabilized on its parking stands.
- 3) Put the two trailer jack stand under the trailer and adjust the height with the reversible ratchet. Do not lift the trailer with the trailer jack.



Easy to put in place thanks to the removable lever and its Ø200 mm solid wheels

Benefits of the product

The standard safety trailer jacks stands Expresso, are intended to stabilize trailers during transshipment when they are uncoupled from the tractor. The trailer jack stands placed under the trailer prevent it to fall over.

The shortest model type SB is particularly suitable for stabilizing trailers equipped with pneumatic suspensions.



JACK/SB

JACK/B

Model	Base length	Base width	Lifting height	Static load	Weight
JACK/SB (BEST100)	450 mm	450 mm	from 670 to 970 mm	40 tons	56 kg
JACK/B (BEST200)	450 mm	450 mm	from 1150 to 1450 mm	40 tons	70 kg
JACK/H (BEST1)	450 mm	450 mm	from 1350 to 1550 mm	40 tons	71 kg



1.18. SAFETY TRAILER JACK STAND

Safety trailer jack stand - Ref. BETJ70

- ▶ Reversible ratchet mechanism left / right
- ▶ Support surface length : 610 mm
- ▶ 2 wheels Ø200 mm: Smooth-running flat tread, high elasticity, very low rolling resistance. Blue nylon rim
- ▶ 1 steel positioning wheel Ø100 mm
- ▶ Epoxy paint color finish yellow

OPTIONS :

- Locking system:

For locking the position of the safety jack under the trailer (padlock not supplied).



Locking system option

- Wireless automatic control

3 possible configurations:

Version 1 : Transmitter receiver. "Trailer jack in place" light indicator on the command box (24V power supply not included)

Version 2 : Transmitter receiver. "Trailer jack in place" light indicator on the command box (24V power supply not included). Token lock system with support.

Version 3 : Transmitter receiver. "Trailer jack in place" light indicator on the command box. Token lock system with support. Detection and light indicator "No trailer jack". (24V power supply not included).



Version 3

Light indicator "Trailer jack in place"

Light indicator "No trailer jack"

Benefits of the product

Stop to falls of uncoupled trailers during loading operations ! The safety stand comes in addition to help the trailer standing legs and avoid tilting of the trailer during loading and unloading operations done by forklift.



Trailer jack Ref. BETJ70

Ø200 wheel with black soft rubber bandage

Model	BETJ70
Adjustable lifting height	de 1000 à 1300 mm
Support surface length	610 mm
Static capacity	45 tons
Weight	68 kg



1.19. SAFETY TRAILER JACK STAND WITH CRANK HANDLE

Safety trailer jack stand - Ref. JACK/TS

The trailer jack JACK/TS has a wide support platform with rubber edging. Its solid rubber tires make maneuvering easy. Once in place under the trailer, its wide base ensures perfect stability.

- ▶ **Folding Double speed crank** : unladen the speed is faster allowing a maneuver even faster.
The height adjustment allows the trailer jack stand to adapt to all types of trailers.
- ▶ 730 mm support platform with rubber edging (in contact with the underside of the trailer)
- ▶ **Wide base ensuring perfect stability**
- ▶ Two rubber puncture-proof wheels Ø400 mm
- ▶ **Load lifter function**
- ▶ Lifting height by crank turn:
 - In charge speed: 0,6 mm
 - Unladen speed: 10 mm
 - Crank effort: 210 N

Benefits of the product

Very easy and quick to set up, this trailer jack fits all types of trailers thanks to its super fast lifting system with a double speed crank (in laden and unladen).

Carry out your loading and unloading operations safely in uncoupled trailers thanks to the safety trailer jack JACK/TS. Once in place, it is a robust and safe trailer support.

STOP TO FALLS OF UNCOUPLED TRAILERS !



Béquille JACK TS
Réf. BEST230740



Model	JACK/TS
Adjustable lifting height	de 920 à 1270 mm
Support surface length	730 mm
Depth	695 mm
Static capacity	15 tons
Weight	96 kg



1.20. SAFETY MOBILE TRESTLES

Safety mobile trestle JACK-TM

Ref. TRM0004

- ▶ It adapts to all types of trailers thanks to its adjustable height
- ▶ Adjustable height: Telescopic square tube, pin locking
- ▶ Very resistant, treated hardwood on top of the trestle
- ▶ Two wheels of Ø200 mm : Soft black rubber band, blue nylon wheels, roller bearings
- ▶ Option:
Rubber wheel chock type CLCC200 (see p 15) with metal support type SUCL201.

Benefits of the product

Perfectly balanced on its two wheels when you move it, the trestle remains horizontal during the installation. This allows a precise height adjustment to minimise the space between the bottom of the trailer and the mobile trestle.

Once positioned, the wheels no longer touch the ground and the trestle under the trailer is perfectly stable on its four stands. This prevents the trailer from tipping in case a parking stand fails or breaks.

Lowered and extended trestle JACK-TM

Ref. TRM01800

Lowered and extended, this trestle is designed to keep trailers using air suspension from tipping.



Extended trestle
Ref. TRM01800



Trestle
TRM0004

**STOP TO FALLS
OF UNCOUPLED
TRAILERS !**

Option :
Rubber wheel
chock type
CLCC200
with metal
support type
SUCL201.



Model	Useful length	Width	Adjustable height	Capacity	Weight
TRM0004	1130 mm	570 mm	from 890 to 1320 mm	15 tons	52 kg
TRM01800	1800 mm	570 mm	from 670 to 910 mm	15 tons	70 kg



JACK/TM with the option rubber wheel



Reinforced safety trestle trailer jack 25 tons Ref. TRM040

Perfectly balanced, this trestle remains horizontal during the installation. The height adjustment of the chassis is quick and accurate, allowing to minimise the space between the bottom of the trailer and the mobile security trestle.



Reinforced trestle
Ref. TRM040



- ▶ Designed to keep trailers using air suspension from tipping
- ▶ Height adjustable by using telescopic crank stands
- ▶ Very resistant, treated hardwood on top of the trestle
- ▶ Four polyamide wheels of Ø125 mm

Model	TRM040
Usable length	1584 mm
Width	600 mm
Adjustable height	from 745 to 1060 mm
Capacity	25 tons
Weight	213 kg





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TRANSSHIPMENT EQUIPMENT

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How to choose your transshipment equipment ?

In general, several criteria are necessary to determine the good choice:

I. Transshipment type - Type of vehicle

- Type of handling equipment used (according to recommendations INRS/CRAM ED6059)



Hand truck, trolley, hand pallet truck (Maximum load 1000 kg - Maximum slope 4%*)



Electric pallet truck (Maximum load 2500 kg - Maximum slope 8%*)



Forklift truck (Maximum load 6000 kg - Maximum slope 10%*)

- Dock / Vehicle



- Ground / Vehicle



(* These percentages are given for information only, they must be checked according to the equipment used and the dock configuration.

- Type of vehicles to load or unload - **Plan the future evolution of your activity**



II. Maximum level differences to catch up - Rates - Budget

- Lower than the dock level



- Higher than the dock level



- Sometimes higher and sometimes lower than the dock level



- Loading and unloading rates
- Budget

EXPRESSO offers to you a wide range of solutions

Dock / Vehicle transshipment



see p 46



see p 61



see p 62



see p 89



see p 70



see p 76



see p 80



see p 80

Ground / Vehicle transshipment



see p 90



see p 94

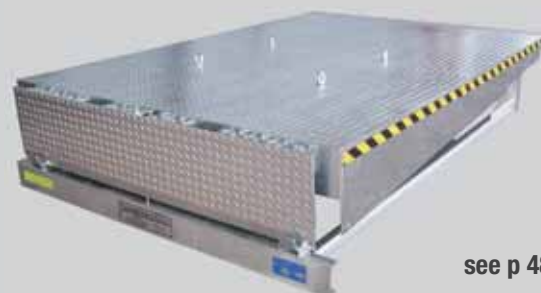


see p 95-96

Intensive use, high rates, ...



see p 52



see p 48

Depending on these criteria, several equipments should match your expectations. Our technical salesmen are at your disposal to advise you in your choice.



DOCK LEVELERS



2.1. SWING LIP DOCK LEVELER - TYPE NILA

Dock leveler - Ref. NILA2520001



Benefits of the product

This hydraulic dock leveler has a very good value for money, it is mainly intended for transshipments using manual or electric pallet trucks or forklifts for a low intensity use (up to 5 trucks per day).

EC product comply with standard NF EN 1398

Construction

- ▶ 400 mm swing lip, thickness 12/14 mm
- ▶ Solid and precise construction
- ▶ Metal sheet platform thickness 6/8 mm, folded sheet metal reinforcements 4 mm thick
- ▶ Hinges of platform in hollow blank 50 x 10 mm.
- ▶ Lip hinges "Water drop" thickness 12 mm
- ▶ Frame structure in folded profiles assembled by bolts or welds

Safety

- ▶ Fixed side protection skirts made of 4 mm sheet metal
- ▶ Protective side skirts in galvanized steel
- ▶ Safety kickstand for maintenance
- ▶ Parachute valves on the cylinders

Hydraulic

- ▶ Hydraulic and electric components used chosen for their reliability and longevity
- ▶ Onboard hydraulic unit
 - Motor power 0,75 KW
 - Power supply 400 or 230 V TRI, 50 Hz + Earth
 - 24V solenoid valve, sequence valve
- ▶ Two lift cylinders of the platform, simple rod effect Ø40 mm and a lip cylinder, single rod effect Ø30 mm

Options:

- Door optical detection
- Mobile or fixed bumpers of steel or rubber
- **Soundproof anti-slip paint** consisting of grain epoxy resin that reduces rolling noise.

Model	NILA2520001
Useful length	2850 mm
Length in rest position	2500 mm
Height in rest position	595 mm
Platform width	2000 mm
Lip length	400 mm
Capacity	6000 kg
Service range	+350 / -300 mm



Placement of the leveler with lifting sleeves or rings according to model and specifications.

2.2. SWING LIP DOCK LEVELER - TYPE STA

Benefits of the product

Our equipment is designed and manufactured to ensure:

- The safety and comfort of users
- The integrity of equipment and products
- The profitability of the investment by an exceptional durability and a minimum maintenance cost

EC product comply with standard NF EN 1398



ABS command box, IP55 protection

Intensive use

6 to 20 tons

Safety and comfort of use
Low maintenance cost



STA 6/20/20 standard
Side view: safety side skirts, maintenance stand, burglar-proof locks

ABS command box, IP55 protection:

- Motor protection by magneto-thermal circuit breaker
- Control circuit: 24 V AC
- Fuse control circuit protection
- Padlockable rotary general switch (side), light indicator "Under voltage"
- Push button (maintained pressure)
- Enclosure equipped for servoing (door, wheel chock)
- Emergency stop "Punch" type



Highly resistant oxy-cut lip hinges in the form of drops of water: The more the capacity is high, the more the number of hinges is high.



Operating mode

When the truck is immobilized at the dock thanks to a wheel chock or a Stop Trucks®, switch on the main switch located on the front of the command box, the light indicator "Under voltage" lights up. Keep pressing the "Lift" button to raise the platform, when it reaches its maximum elevation, the telescopic lip unfolds. Then release the pressure on the button, the ramp moves down, the lip is extended and comes to rest on the truck floor. Once the transhipment is complete, push the "Lift" button again, the ramp rises at the same time as the lip folds. Once the truck is gone, release the button, the ramp resumes its rest position.



Construction

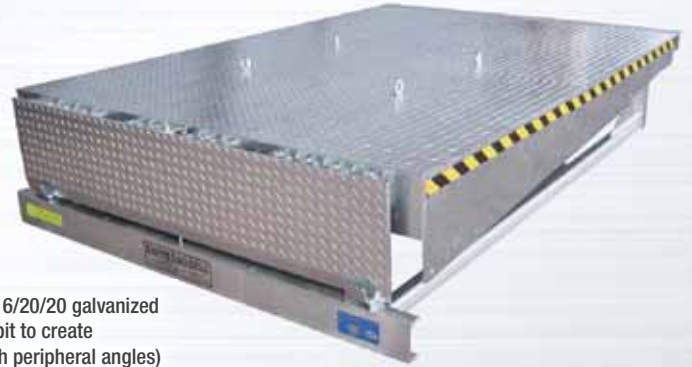
- ▶ Dynamic load capacity: 6/9/12 tons and up to 20 tons on request
- ▶ Extremely robust construction with an exceptional resistance capacity
- ▶ Oxygen-cut lip hinges thickness 30 mm H=150 mm
- ▶ IPE platform reinforcements from 100 to 140 mm (according to model)

Safety

- ▶ Fixed side protection skirts made of 4 mm sheet metal
- ▶ Protective side skirts in galvanized steel
- ▶ Safety kickstand for maintenance
- ▶ Parachute valves (centered between the 2 cylinders)
- ▶ Emergency stop "Punch" type with reset button

Hydraulic

- ▶ Hydraulic and electrical components used chosen for their reliability and longevity
- ▶ Onboard hydraulic unit
 - 1.1 KW motor power flow 5 l / min
 - Supply 400 or 230 V TRI, 50 Hz + earth
 - Control voltage 24 volt, Sequence valve
- ▶ Two cylinders for the lifting of the platform, rod Ø40 to 45 mm
 - Lip cylinder, single effect
 - Rod Ø30 to 45 mm according to model



STA 6/20/20 galvanized for pit to create (with peripheral angles)



STA 6/20/20 Coffered leveler ready for setting up

Options:

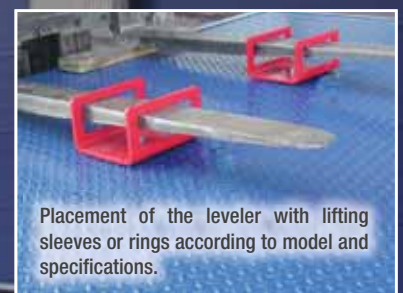
- Door optical detection
- Mobile or fixed bumpers of steel or rubber
- **Soundproof anti-slip paint** consisting of grain epoxy resin that reduces rolling noise
- 500 mm lip

Model	STA 20/20	STA 20/22	STA 25/20	STA 25/22	STA 30/20	STA 30/22	STA 35/20	STA 35/22	STA 40/20	STA 40/22
Length in rest pos.	2000 mm	2000 mm	2500 mm	2500 mm	3000 mm	3000 mm	3500 mm	3500 mm	4000 mm	4000 mm
Useful length	2350 mm	2350 mm	2350 mm	2350 mm	3400 mm	3400 mm	3900 mm	3900 mm	4400 mm	4400 mm
Platform width	2000 mm	2200 mm	2000 mm	2200 mm	2000 mm	2200 mm	2000 mm	2200 mm	2000 mm	2200 mm
Lip width	2000 mm	2200 / 2000	2000 mm	2200 / 2000	2000 mm	2200 / 2000	2000 mm	2200 / 2000	2000 mm	2200 / 2000
Capacity	6 à 12 t	6 à 12 t	6 à 12 t	6 à 12 t	6 à 12 t	6 à 12 t	6 à 12 t	6 à 12 t	6 à 12 t	6 à 12 t
Service range	+300/-300	+300/-300	+350/-300	+350/-300	+400/-300	+400/-300	+450/-300	+450/-300	+500/-300	+500/-300



Our research department offers solutions for ALL POSSIBLE CONFIGURATIONS

Already existing pit / outer frame, very intensive use / heavy loads



Placement of the leveler with lifting sleeves or rings according to model and specifications.



Options: Soundproof anti-slip paint and lip marking

2.3. TELESCOPIC LIP DOCK LEVELER - TYPE STV

Benefits of the product

- Fast and very precise adjustment of the lip on the floor of the trailer
- Lip extension of 500 mm or 800, 1000 mm according to model (see on the right page). The telescopic extension makes it possible to reach the trailer floor far away even in the case of lateral unloading
- The lip remains rigid in a parachute situation
- The telescopic lip leveler removes all the disadvantages described below



Fast and very precise adjustment of the lip !

(*) Lip of 800 mm or more

EC product comply with standard NF EN 1398



ABS Command box, IP55 protection

Unlike the STV levelers, the swing lip dock levelers could be insufficient in some cases:

- ▶ Very low trucks (lowers) filled with pallets up to the doors. These trucks can not be unloaded because it's not possible to put the lip on the trailer floor. In this case the vehicle has to move forward to be able to position the lip of the leveler. In the case of trailers without a tractor, transshipment is not possible.
- ▶ Containers on trays offset from the rear of the vehicle. The swing lip is not long enough to reach the floor of the container.
- ▶ In case of untimely departure of the truck during transshipment, the parachute valve blocks the platform and the "floating" swing lip closes.

ABS Command box, IP55 protection:

- Motor protection by magneto-thermal circuit breaker
- Control circuit: 24 V AC
- Fuse control circuit protection
- Padlockable rotary general switch (side), light indicator "Under voltage"
- Push buttons: "Raise" functions with reset, "Lip out", "Lip back" maintained pressure on push button and "Lower" impulse on push button
- Command box equipped for servoing (door, wheel chock)

Operating mode

When the truck is immobilize on the dock, switch on the main switch located on the front of the command box. The "Under voltage" indicator lights up. Push the button "Raise" : the platform rises. When it reaches the required elevation, push the button "Lip out", the telescopic lip advances till the floor of the vehicle. When the lip is sufficiently out, release the button, the ramp moves down and arises on the truck floor (10 cm). Once the transshipment is complete, push the button "Lip back", the ramp rises at the same time as the lip moves back. When the lip is fully retracted, the ramp moves to the rest position.



STV leveler on external frame



Construction

- ▶ Dynamic load capacity: 6/9/12 tons
- ▶ Lip length of 500, 800 or 1000 mm
- ▶ Extremely robust construction with an exceptional resistance capacity
- ▶ IPE platform reinforcements, oxygen-cut lip hinges, UPN frame
- ▶ Side lip guides with polyethylene coating for sliding

Hydraulic

- ▶ Hydraulic and electrical components used chosen for their reliability and longevity
- ▶ Onboard hydraulic unit
 - 1.1 KW motor power flow 5 l / min
 - Supply 400 or 230 V TRI, 50 Hz + earth
 - Control voltage 24 volt, Sequence valve
- ▶ Two cylinders for the lifting of the platform, rod Ø40 to 45 mm
- ▶ One cylinder to push the lip, double effect, rod Ø40 mm

Safety

- ▶ Side protection skirts in sheet metal of 6 or 8 mm (according to model)
- ▶ Safety locks for maintenance
- ▶ Parachute valves (centered between the 2 cylinders)
- ▶ Emergency stop "Punch" with locking and unlocking by rotation



Telescopic 500 mm lip out. Les béquilles d'appui articulées facilitent le rangement de la lèvre, surtout à partir d'une position de travail négative



Options:
Soundproof anti-slip paint and lip marking

Options:

- Door optical detection
- Mobile or fixed bumpers of steel or rubber
- **Soundproof anti-slip paint** consisting of grain epoxy resin that reduces rolling noise
- Lip marking 150 mm in red

Model	STV 20/20	STV 20/22	STV 25/20	STV 25/22	STV 30/20	STV 30/22	STV 35/20	STV 35/22	STV 40/20	STV 40/22
Length in rest pos.	2000 mm	2000 mm	2500 mm	2500 mm	3000 mm	3000 mm	3500 mm	3500 mm	4000 mm	4000 mm
Lip length	500 mm	500 mm	500 mm ⁽¹⁾	500 mm ⁽¹⁾	500 mm ⁽²⁾	500 mm ⁽²⁾	500 mm ⁽²⁾	500 mm ⁽²⁾	500 mm ⁽²⁾	500 mm ⁽²⁾
Useful length	2500 mm	2500 mm	3000 mm	3000 mm	3500 mm	3500 mm	4000 mm	4000 mm	4500 mm	4500 mm
Platform width	2000 mm	2200 mm	2000 mm	2200 mm	2000 mm	2200 mm	2000 mm	2200 mm	2000 mm	2200 mm
Lip width	1950 mm	2150 / 2000	1950 mm	2150 / 2000	1950 mm	2150 / 2000	1950 mm	2150 / 2000	1950 mm	2150 / 2000
Capacity	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t
Service range	+300/-300	+300/-300	+350/-300	+350/-300	+400/-300	+400/-300	+450/-300	+450/-300	+500/-300	+500/-300

All other length and width on request / Capacity 15 tons or more on request

(1) 800 mm lip length on request (2) 1000 mm lip length on request



Cofferred STV dock leveler



2.4. TELESCOPIC COMB LIP DOCK LEVELER - TYPE STVP Patented system

Benefits of the product

- Improved working comfort for the pit operator : Health preserved, decreased back problems
- Security of goods : No more repeated shocks, the risk of fall of the load is reduced. Possibility to slide large volumes on the platform (surface without break)
- Higher structural resistance to load and the intensity of work : The STVP dock leveler has almost the double of IPE reinforcements as a standard telescopic leveler, it is the case on the platform and on the lip.
- Fast and very precise adjustment of the lip on the floor of the trailer
- Lip extension of 500 mm or 800, 1000 mm according to model (see on the right page). The telescopic extension makes it possible to reach the trailer floor far away even in the case of lateral unloading

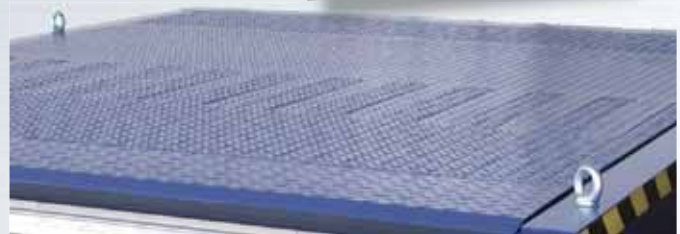
6 to 12 tons

Intensive use



STVP dock leveler in rest position with options feet for pit and front covering skirt

FAST AND VERY PRECISE ADJUSTMENT OF THE LIP !



(*) 800 mm lip or longer

EC product comply with standard NF EN 1398

ABS Command box, IP55 protection



ABS Command box, IP55 protection:

- Motor protection by magneto-thermal circuit breaker
- Control circuit: 24 V AC
- Fuse control circuit protection
- Padlockable rotary general switch (side), light indicator "Under voltage"
- Push buttons: "Raise" functions with reset, "Lip out", "Lip back" maintained pressure on push button and "Lower" impulse on push button
- Command box equipped for servoing (door, wheel chock)

Operating mode

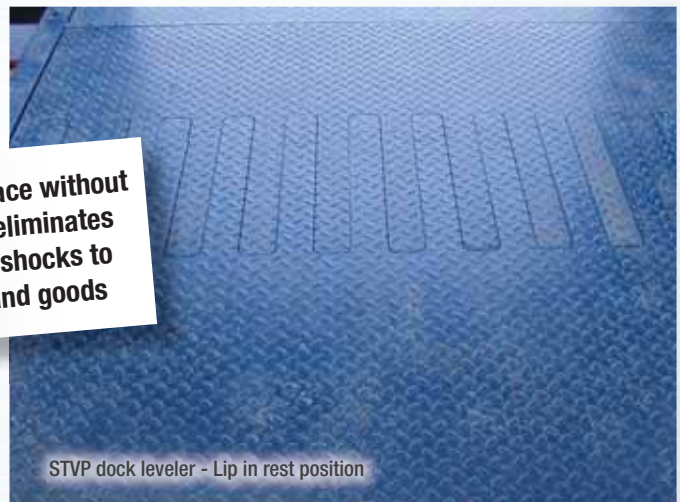
The telescopic lip of a standard dock leveler (without comb) is under the platform (in rest position). This thickness added to the necessary space for a good functioning, causes an annoying overthickness and harmful during repeated passages of handling equipment, for both staff and equipment. This is particularly felt by forklift drivers who complain of "back pain". The comb lip eliminates this disadvantage.

The rolling surface thus offers a smooth surface, without slope between the platform and the lip, favorable to the well-being of the users and to the durability of equipments and goods. In addition, by design, this ramp is particularly suitable for heavy loads and intensive use.



STVP dock leveler - Lip out

Smooth surface without slope that eliminates damaging shocks to forklifts and goods



STVP dock leveler - Lip in rest position

Construction

- ▶ Dynamic load capacity: 6/9/12 tons
- ▶ Lip length of 500, 800 or 1000 mm
- ▶ Extremely robust construction with an exceptional resistance capacity
- ▶ IPE platform reinforcements, oxygen-cut lip hinges, UPN frame
- ▶ Side lip guides with polyethylene coating for sliding

Safety

- ▶ Side protection skirts in sheet metal of 4 mm
- ▶ Safety locks for maintenance
- ▶ Parachute valves (centered between the 2 cylinders)
- ▶ Emergency stop “Punch” with locking and unlocking by rotation

Hydraulic

- ▶ Hydraulic and electrical components used chosen for their reliability and longevity
- ▶ Onboard hydraulic unit
 - 1.1 KW motor power flow 5 l / min
 - Supply 400 or 230 V TRI, 50 Hz + earth
 - Control voltage 24 volt, Sequence valve
- ▶ Two cylinders for the lifting of the platform, rod Ø45 mm
- ▶ One cylinder to push the lip, double effect, rod Ø40 mm



Options:
Soundproof anti-slip paint and lip marking



Options:

- Door optical detection
- Mobile or fixed bumpers of steel or rubber
- **Soundproof anti-slip paint** consisting of grain epoxy resin that reduces rolling noise
- Lip marking 150 mm in red

Model	STVP 20/20	STVP 20/22	STVP 25/20	STVP 25/22	STVP 30/20	STVP 30/22	STVP 35/20	STVP 35/22	STVP 40/20	STVP 40/22
Length in rest pos.	2000 mm	2000 mm	2500 mm	2500 mm	3000 mm	3000 mm	3500 mm	3500 mm	4000 mm	4000 mm
Lip length	500 mm	500 mm	500 mm	500 mm	500 mm ⁽¹⁾	500 mm ⁽¹⁾	500 mm ⁽¹⁾	500 mm ⁽²⁾	500 mm ⁽²⁾	500 mm ⁽²⁾
Useful length	2500 mm	2500 mm	3000 mm	3000 mm	3500 mm	3500 mm	4000 mm	4000 mm	4500 mm	4500 mm
Platform width	2000 mm	2200 mm	2000 mm	2200 mm	2000 mm	2200 mm	2000 mm	2200 mm	2000 mm	2200 mm
Lip width	1840 mm	2040 / 2000	1840 mm	2040 / 2000	1840 mm	2040 / 2000	1840 mm	2040 / 2000	1840 mm	2040 / 2000
Capacity	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t	6 to 12 t
Service range	+300/-300	+300/-300	+350/-300	+350/-300	+400/-300	+400/-300	+450/-300	+450/-300	+500/-300	+500/-300

All other length and width on request / Capacity 15 tons or more on request

(1) 800 mm lip length on request (2) 1000 mm lip length on request



Our research department offers solutions for
ALL POSSIBLE CONFIGURATIONS
Already existing pit / outer frame



2.5. ANTI-FALL / ANTI-SQUASH DOCK LEVELER - TYPE BODY GUARD

Benefits of the product

1. **Retractable obstacle**
 - To control the risk of dock falls of handling equipment
 - To protect the sectional doors
2. **Anti-squash safety zone to control the risk of crushing of the body between the dock and the trailer during the transshipment operations.**



EC product comply with standard NF EN1398, NF EN349 and the guide ED6059 from INRS / CRAM resuming the recommendations of the best practices of the profession.

6 or 9 tons



Construction

- ▶ Dynamic load capacity: 6/9/12 tons
- ▶ Mechanic welded construction with oversized elements giving it an exceptional robustness
- ▶ Length: from 2500 mm

Safety

- ▶ Fixed side protection skirts made of 4 mm sheet metal
- ▶ Protective side skirts in galvanized steel
- ▶ Safety kickstand for maintenance
- ▶ Parachute valves (centered between the 2 cylinders)
- ▶ Emergency stop "Punch" type with reset button

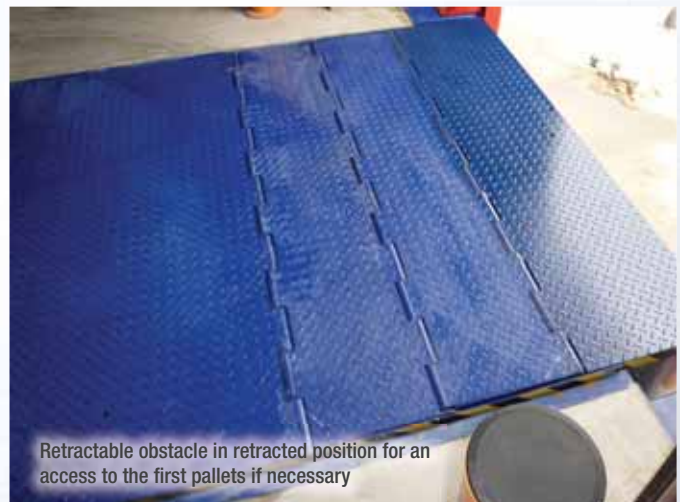
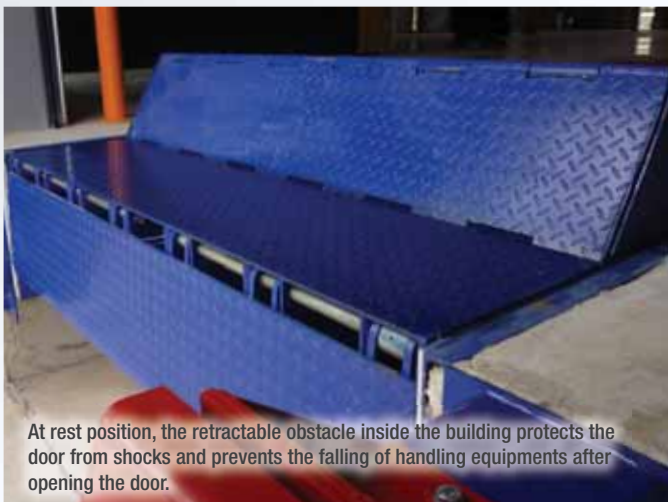
Operating mode

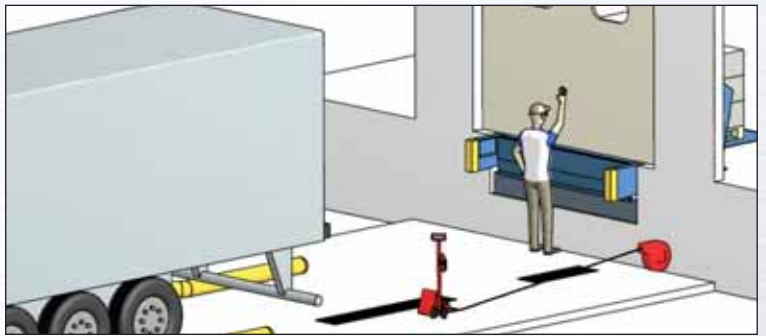
At rest position, the retractable obstacle inside the building protects the door from shocks and prevents the falling of handling equipments after opening the door.

When the truck is immobilized on dock (leveler authorization given by the wedge), the leveler is allowed to deploy completely, lip retracted (see picture above) to unload the first pallets at the end of the trailer. Then the lip goes out to reach the floor of the vehicle to finish the transshipment.

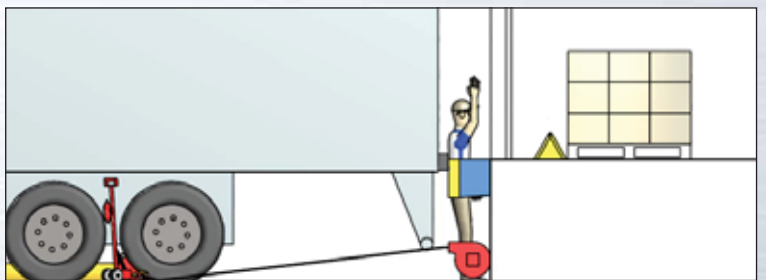
Hydraulic

- ▶ Hydraulic and electrical components used chosen for their reliability and longevity
- ▶ Onboard hydraulic power : Engine 1,5 KW output 5 l/mn, 400 or 230 V TRI, 50 Hz + Earth, control 24 V
- ▶ 2 lift cylinders diameter 40 to 45 mm for the platform
- ▶ 1 cylinder lip single or double acting





The refuge area, allows to protect a careless person from being crushed, here per example, the second driver who is knocking on the door of a warehouse while his colleague moves back to dock.



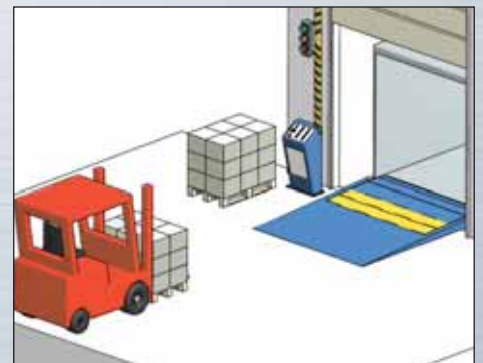
The person is protected by the 500 mm refuge area. In addition, located behind the door, the obstacle of the leveler also protects the door from the pallets temporarily placed on the leveler in addition to its anti-fall function.



The truck is docked, the door is open but a pallet placed at the end of the trailer prevents full deployment of the leveler ...



First pallets position : The onstacle retracts at the same time the refuge fills and allows the truck to take the first pallets at the end of the trailer.



Then the connecting lip can be deployed on the floor of the trailer in order to finish the loading or unloading operations.



2.6. APPENDIX 1 - PITS FOR DOCK LEVELERS

All our models of levelers are manufactured according to the configuration chosen with the project manager, so as to adapt mainly to three types of pits.

A. Pits for new installations

Leveler for pit with outside steel angles (with or without tailback reserve)



The leveler is equipped with a back steel angle which will be welded on pit angle. The front cross bar will be welded sur the vertical pit angles.

Advantages:

- No additional civil engineering
- Easy subsequent leveler removal

Drawbacks:

- High engineering cost

NB: The detailed pits plans are provided to the order

Leveler for pit with rabbet for self-carried upper frame or hanged frame (with or without tailback reserve)



The leveler shows on its upper part, a peripheral frame with wall anchors on 3 sides, which will be putted on the rabbet around the pit. Wall anchors will be welded on the resting concrete steel, than concrete is underpoured up to ground level.

Advantages:

- Low engineering cost
- Fast assembly without apparent welding

Drawbacks:

- Civil engineering after installation
- Later uninstal difficulties

Coffered leveler (formwork) for non defined pit (with or without tailback reserve)



The leveler is fully coffered on 3 sides which are equipped with wall anchors. It is putted on the bed plate equipped with resting concrete steel on the 3 sides which will be welded on wall anchors and then filled with concrete.

Advantages:

- Low engineering cost
- No additional civil engineering
- Fast assembly without apparent welding

Drawbacks:

- Difficulty of de-installation

B. Adaptations in an existing pit

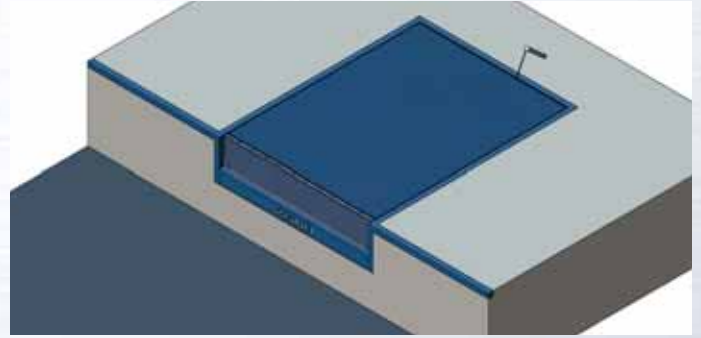
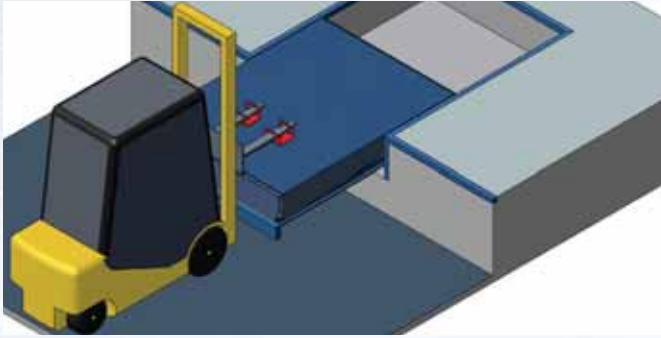
As part of a dock renovation, we adapt the leveler at the existing pit.
The leveler is custom made.

- 1) The old equipment is removed (on client fee)
- 2) A new leveler with overdimension peripheral steel angles is installed in the pit and welded

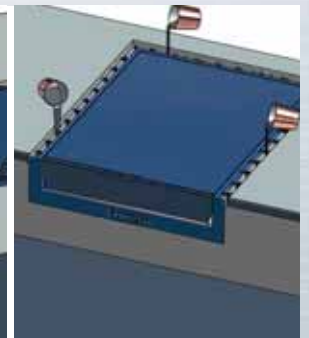
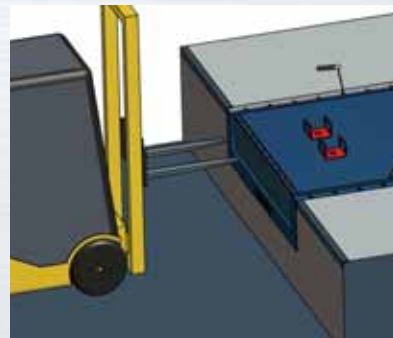
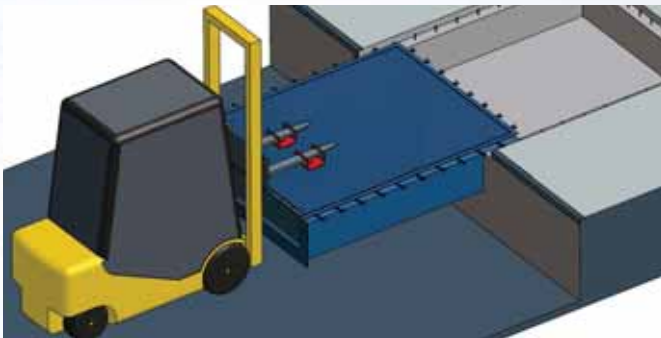


Pits for levelers – Pits for new installations

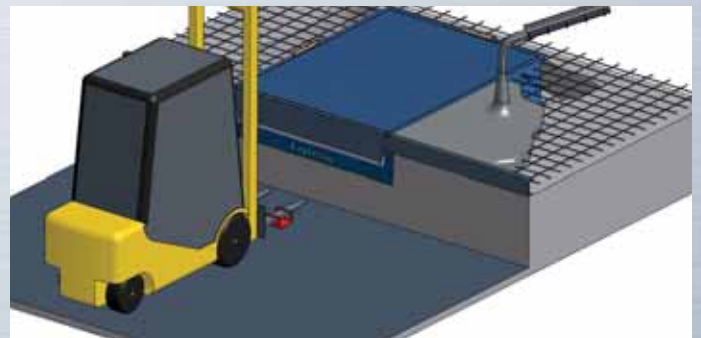
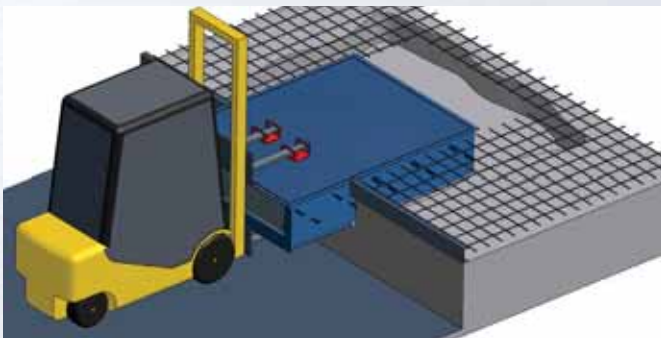
Leveler for pit with outside steel angles (with or without tailback reserve)



Leveler for pit with rabbet for self-carried upper frame or hanged frame (with or without tailback reserve)



Coffer leveler (formwork) for non defined pit (with or without tailback reserve)



Adaptations in an existing pit



2.7. APPENDIX 2 - EXTERNAL FRAME FOR DOCK LEVELER

Benefits of the product

When the configuration allows it, that the court depth is sufficient, **The self-supporting frame leveler is an economical solution.**

Height adjustable Feets that adapt to the configuration of the ground and the height of the dock.



STA dock leveler on an external frame

STA dock leveler on external frame with safety handrails

Different sort of frames to answer to the most configurations:

- External frame with side crash barrier or safety handrails
- External frame with tailift space
- Internal frame to fit to all existing pits
- Enlarged external frame with dock tunnel (Metal frame + weatherboarding or cover + dock shelter).

Welding fixing or chemical anchors against the wall of the dock and on the ground. Metal plates ensure good load balancing.



STA dock leveler on an external sidewalk frame

Options:

- Fixed or mobile dock bumpers
- Dock cover cap for a reinforced dock fixing (eg in case of absence of edge angle sealed on the dock nose). Standard length: 250 and 300 mm
- Dock cover neb cap with folded end to anchor the cap to the dock
- Safety handrails



Option: Enhanced sliding bumpers with refuge area



Option: Dock cover cap



STA dock leveler on 3 meters large external frame with safety handrails and sliding bumpers



STV dock levelers on external frames with safety handrails and sliding bumpers

2.8. APPENDIX 3 - DOCK TUNNELS FOR LEVELER



Benefits of the product

Dock tunnels for levelers on external frame allows to ensure comfortable working conditions, as well for staff as goods transhipped, especially when the building does not have dock roof in the loading area, or this one is too short.

- ▶ **Metal frame and cover:**
External frame surmounted by a metallic tube armature which can, according to the needs (rain and wind simple protection or maintaining the temperature inside the warehouse) be coated with a tarpaulin cover, simple or isolated weatherboarding.
- ▶ **Dock shelter:** To complete the sealing of the front of the tunnel : setting up of a dock shelter : Simple model with hanging frame, foam dock seal model or Inflatable dock shelter (see p 104).
- ▶ **Door or curtains:** Optionally, the tunnel can be equipped with a closure : metal curtain, sectional or fast door.
- ▶ There is a lot of models of frames to answer to the most configurations.



Saving space inside the buildings
Protection against cold and bad weather thanks to the loading tunnel !





DOCK MINI-LEVELERS



2.11. ALUMINIUM MECHANICAL EDGE-OF-DOCK MINI-LEVELER



- ▶ **Robust aluminium construction**
- ▶ **Delivered ready for assembly with 2 metal pedestal and 1 operating lever**
- ▶ **2 standard rubber bumpers BUCC13 (see p 111)**
- ▶ **Easy installation : in new construction or under renovation:** fixed, either by welding on a "iron" sealed in the platform, or thanks to a metallic "cap"
- ▶ **Economic solution without civil engineering**

Options:

- **Steel sliding bumpers BUM0115 or galvanized sliding bumper BUM01151 (see p 113)**
- **Galvanized metal pedestal for bumpers**
- **Dock cover cap :** when the dock is damaged, it is often necessary to use a metal dock cover cap covering the nose of the dock. It is fixed on the top, on the wholesome part of the dock and reinforces the fixing of the ramp.
- **Dock cover neb cap with folded extremity** which allows to anchor the cap to the dock.

Operating mode

After docking the truck against the bumpers, simply pull the lever towards you to lift the mini-leveler, when it is vertical, a simple pressure on the lever allows to deploy the lip on the trailer floor (this ramp adapts to the positive and negative range). At the end of the transshipment, it automatically returns to its rest position after the departure of the truck, the Pit operator can also repeat the previous operation to make the bridge return to its rest position before the truck leaves the dock.



Model	Capacity	Useful width	Overall width	Length in rest pos.	Total length lip deployed	Service range
PSE 27/20	6000 kg	2000 mm	2750 mm	500 mm	700 mm	± 130 mm
PSE 30/22	6000 kg	2250 mm	3000 mm	500 mm	700 mm	± 130 mm



Mechanical aluminium edge-of-dock mini-leveler with option: sliding bumpers BUM0115



Mechanical aluminium edge-of-dock mini-leveler on an external frame with rubber bumpers BUCC13

2.12. STEEL MECHANICAL EDGE-OF-DOCK MINI-LEVELER



Benefits of the product

Once the lip is deployed on the floor of the truck trailer, the ramp ref. POLA28211 offers a wheeling surface nearly flat very well adapted to the handling equipments and electric stackers.

Operating mode

The same as the mini-leveler of the previous page.

Very simple and robust mechanism
Maintenance free

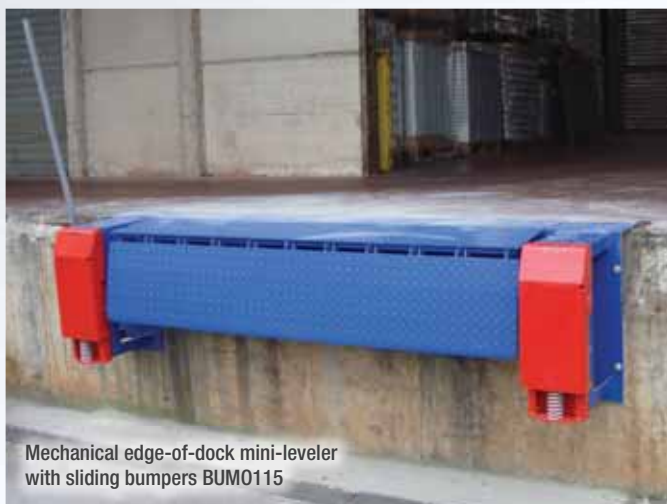
- ▶ Delivered ready for assembly with 2 metal pedestal, 1 operating lever and 1 maintenance stand
- ▶ 2 standard rubber bumpers BUCC13 (see p 111)
- ▶ Economic solution without civil engineering
- ▶ Easy installation : in new construction or under renovation: fixed, either by welding on a "iron" sealed in the platform, or thanks to a metallic "cap"

Options:

- Sliding bumpers BUMO115 or fixed bumpers type BULA
- Standard dock cover cap
- Dock cover neb cap with folded extremity which allows to anchor the cap to the dock.
- Soundproof anti-slip paint consisting of grain epoxy resin that reduces rolling noise



Model	Capacity	Useful width	Overall width	Length in rest pos.	Total length lip deployed	Service range
POLA28211	6000 kg	2100 mm	Depending on bumpers type	380 mm	700 mm	± 100 mm
POAC26181	9000 kg	1830 mm	Depending on bumpers type	380 mm	705 mm	± 130 mm
POAC26201	9000 kg	1980 mm	Depending on bumpers type	380 mm	705 mm	± 130 mm



2.13. ELECTRIFIED HYDRAULIC MINI-LEVELER



Economic solution without civil engineering

Electrified hydraulic mini-leveler - Ref. POAC26201 with option bumpers BULA31

Benefits of the product

This mini-leveler is easy to manoeuvre thanks to a single push button on the command box.

Easy installation : in new construction or under renovation: fixed, either by welding on a "iron" sealed in the platform, or thanks to a metallic "cap"

Control box ABS, IP55 protection:

- Engine fuse protection
- Control circuit : 24 V
- Control circuit fuse protection
- Lockable rotary disconnect switch, light indicator "Power on" in front of the box
- Pressure maintained push button with reset
- Control box equipped for servo control (door or dock, ...)



- ▶ Delivered ready for assembly with 2 metal pedestal, 1 operating lever and 1 maintenance stand
- ▶ 2 standard rubber bumpers BUCC13 (see p 111)
- ▶ Hydraulic power on separate bracket with retention tray
- ▶ Engine power 0.75 KW, Supply 400 or 230 V TRI, 50 Hz + Earth, Solenoid valve 24 V and sequence valve
- ▶ Lifting cylinder, single acting rod Ø45 mm
- ▶ Lip cylinder, single acting rod Ø20 mm
- ▶ Length of swinging lip : 380 mm
- ▶ Tear sheet metal platform
- ▶ Tear sheet metal lip
- ▶ Platform's hinges (drops of water form) thickness 10 mm + Ø28 mm stretched axle

Options:

- Steel sliding bumpers BUM0115 or fixed bumpers type BULA
- Dock cover cap
- Dock cover neb cap with folded extremity which allows to anchor the cap to the dock.
- Cowling of the hydraulic group



Model	Capacity	Useful width	Overall width	Length in rest pos.	Total length lip deployed	Service range
Electrified POLA28211	6000 kg	2100 mm	Depending on bumpers type	380 mm	700 mm	± 100 mm
Electrified POAC26181	9000 kg	1830 mm	Depending on bumpers type	380 mm	705 mm	± 100 mm
Electrified POAC26201	9000 kg	1980 mm	Depending on bumpers type	380 mm	705 mm	± 100 mm



Standard hydraulic mini-leveler with rubber bumpers BUCC13



2.14. SWING LIP MINI-LEVELER WITH ANTI-SQUASH SAFETY ZONE Patented system



Anti-squash protection

Anti-squash safety zone 500 mm

EC product comply with standard NF EN1398, NF EN349 and the guide ED6059 from INRS / CRAM resuming the recommendations of the best practices of the profession.

- Benefits of the product**
- This mini-leveler ref. STAA has an anti-squash refuge area that protects people from crushing between the dock and the trailer during the trucks docking.
 - At rest, the raised position of the ramp allows to prevents falls of people from the dock.
 - Allows to unload the first pallets when there is not enough space to put the lip on the trailer floor

- Control box ABS, IP55 protection:**
- Motor protection - 24 V control circuit
 - Control circuit fuse protection
 - Lockable rotary general switch
 - Push buttons : "Reset Rest position", "First pallets", "Loading Unloading", light indicator "Power on", light indicator "Access denied"



Economic solution without civil engineering

Operating mode

- **Starting up** (after truck locking or blocking) : Turn the switch disconnecter on "I", the functioning white light indicator lights. Pulse on the push button "Rearment rest position"
- **Access to the first pallets:** Button "First palettes" maintained during the setting up of the lip. The red "Access denied" flashes during operation. Access is permitted when the red light goes out.
- **Working position:** Button "Unloading Loading" maintained until the positioning of the lip on the trailer.
- **Rest position:** pulse on the pushbutton "Reset Storage", the bridge is raised in rest position.



STAA mini-leveler at work, lip out



STAA mini-leveler in position to access to the first pallets



Construction

- ▶ Tear sheet metal platform thickness 6/8 mm
- ▶ Platform reinforcements in 4 mm folded profile
- ▶ Tear sheet metal lip thickness 12/14 mm with extended reinforcements
- ▶ Monobloc frame with integrated bumpers

Safety

- ▶ Removable side skirts in 3 mm sheet
- ▶ Safety kickstand for maintenance
- ▶ Parachute valve
- ▶ Anti-squash safety zone 500 mm
- ▶ Anti-fall system for handling equipment and people thanks to the raised ramp in the rest position

Hydraulic

- ▶ Onboard hydraulic power
- ▶ Supply 400 or 230 V TRI, 50 Hz + earth
- ▶ Cylinder single acting lifting platform
- ▶ Cylinder single acting lifting lip



Model	STAA
Capacity	6 tons
Lip : Length	400 mm
Lip : Useful length	250 mm
Lip : Width	2200 mm
Platform length	804 mm
Overall width	2880 mm
Useful length	1062 mm
Dock cover neb cap L x W	2750 x 250 mm
Service range	± 125 mm



Option:
Soundproof anti-slip paint
and lip marking

2.15. TELESCOPIC LIP MINI-LEVELER WITH ANTI-SQUASH SAFETY ZONE Patented system



Benefits of the product

- This mini-leveler Ref. STVA has an anti-squash refuge area that **protects people from crushing** between the dock and the trailer during the trucks docking.
- **The very precise adjustment of the lip can allow the unloading of the first pallets**
- At rest, the raised position of the ramp allows to **prevents falls of people from the dock.**
- **Allows pedestrian access** when the lip is retracted for opening the truck door

Control box ABS, IP55 protection:

- Motor protection
- 24 V control circuit, fuse control circuit protection
- Lockable rotary general switch
- Light indicator "Power on"
- Light indicator "Access denied"
- Push buttons: "Reset Rest position", "First pallets", "Loading Unloading"



Operating mode

- **Pedestrian access** (lip retracted for opening the trailer door) : maintained pressure on the push button "Pedestrian access". The platform moves down and stop at the horizontal, the operator can safely go to open the door. The red light indicator on the command box is lit.
- **Working position**: push the button "Up" and the push button "Lip out" (maintained pressure) to make move down the ramp on the trailer floor.
- **Very precise adjustment of the lip** : it can allow the **unloading of the first pallets**. The red light indicator on the command box is off.
- **Rest position**: pulse on the push button "Reset Storage", the bridge is raised in rest position.



STVA dock leveler with galvanized bumpers BUM01151





Construction

- ▶ Tear sheet metal platform thickness 6/8 mm
- ▶ Platform reinforcements in 4 mm folded profile
- ▶ Tear sheet metal lip thickness 15/17 mm with extended reinforcements
- ▶ Monobloc frame with integrated bumpers
- ▶ The 790 mm rest length with bumpers BUM0115 allows to install a 900 mm deep dock shelter

Safety

- ▶ Removable side skirts in 4 mm sheet
- ▶ Safety kickstand for maintenance
- ▶ Parachute valve
- ▶ Emergency stop "Punch" type with reset button
- ▶ Anti-squash safety zone 500 mm
- ▶ Anti-fall system for handling equipment and people thanks to the raised ramp in the rest position

Hydraulic

- ▶ Onboard hydraulic power
- ▶ Supply 400 or 230 V TRI, 50 Hz + earth
- ▶ Cylinder single acting lifting platform
- ▶ Cylinder single acting lifting lip



Economic solution without civil engineering

Model	STVA
Capacity	6 tons
Lip : Length	250 mm
Lip : Width	2150 mm
Length in rest position	790 mm
Useful length	1000 mm
Platform width	2200 mm
Working position High / Low	± 125 mm
Low mechanical stop	- 250 mm



STVA mini-leveler in working position, lip out



Safety kickstand for maintenance



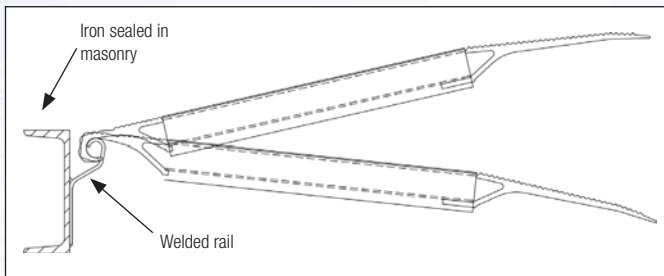
LOADING RAMPS



2.16. DRAWBRIDGE LEVELER ON RAIL - TYPE PAR

these ramps allows transshipment of vehicles of which the floor is higher or lower than the dock, They are articulated in a special rail in the dock.

- ▶ Capacity 4000 kg
- ▶ Robust loading ramp in aluminum profile
- ▶ Automatic locking lock in vertical position, the unlocking is done manually
- ▶ Low lateral moving possible to adjust to the more or less precise location of trucks
- ▶ Maintenance free



The rail is delivered in lengths of 2 to 3 m can be juxtaposed. It is either welded to an existing well-sealed iron, or fixed with chemical anchors and bolts for anchoring in the concrete of the dock. In the case of very damaged dock noses and for a better fixing, we recommend a platform cap with chamfered holes on the platform.

Model	Capacity	Length	Width	Service range	Weight
PAR 6515	4000 kg	650 mm	1500 mm	± 85 mm	34 kg
PAR 6517	4000 kg	650 mm	1750 mm	± 85 mm	40 kg
PAR 6520	4000 kg	650 mm	2000 mm	± 85 mm	46 kg
PAR 7515	4000 kg	750 mm	1500 mm	± 100 mm	38 kg
PAR 7517	4000 kg	750 mm	1750 mm	± 100 mm	45 kg
PAR 7520	4000 kg	750 mm	2000 mm	± 100 mm	51 kg
PAR 9515	4000 kg	950 mm	1500 mm	± 120 mm	46 kg
PAR 9517	4000 kg	950 mm	1750 mm	± 120 mm	54 kg
PAR 9520	4000 kg	950 mm	2000 mm	± 120 mm	62 kg

Other possible dimensions on request



PAR loading ramp with bumper frame

For an easy docking of trucks, and to facilitate the work in safety, we advise you to create a sloping gently dock in the case of a new dock, or the implementation of a metallic frame as on the picture below on the left in the case of a renovation.



PAR loading ramp with dock cover cap



PAR 7515 loading ramp on a very long metal frame



Automatic locking lock in vertical position, Unlocking is manual

2.17. SLIDING DRAWBRIDGE LEVELER ON RAIL - TYPE 8861/8862

These ramps have a automatic locking system integrated in the the ball joints of the springs which keeps its long-term effectiveness because the unlocking is also automatic (a single strong pressure of the hand to the front is enough).

The ramps 8862 are in every way similar to ponts 8861, with the only difference that they are not mobile laterally.



8861 ramps on a sloping gently dock



8862/1720 loading ramps - Stationary model

Benefits of the product

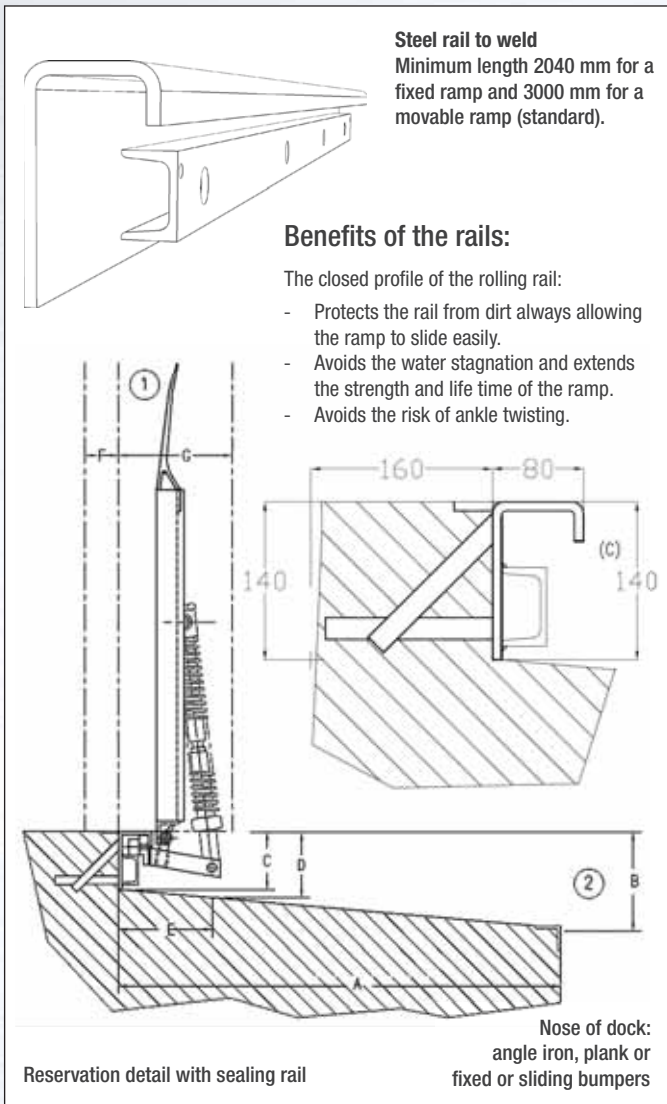
The 8861 loading ramps are particularly adapted to messaging halls and warehouses. They offer, thanks to their lateral mobility, multiple possibilities for docking unhitched trucks or semi-trailers. They are equipped with compensation springs for an easy use (up and down).

- ▶ Capacity 5000 kg (up to 6000 kg optional)
- ▶ Robust construction in aluminum profile
- ▶ Positiv and negativ service range
- ▶ 2 compensating springs for effortless and easy handling
- ▶ Auto lock in the vertical position
- ▶ Auto Unlock:
just a simple pressure of the hand unlocks the ramp
- ▶ Chain or lifting lever (depending on model)
- ▶ Fixing in a steel rail . This rail can be welded to an existing iron or directly sealed during the casting of the concrete slab.



In the case of a new building: the creation of a sloping gently dock (as in the picture opposite) offers many advantages: the rail is set back from the platform, there is no danger of falling into the void for the user in case of missteps. In addition, the ramp and the rail are protected in the event of wrong operation of the vehicle.





Model	Capacity	Length	Width	Service range	Weight
1115	5000 kg	1150 mm	1500 mm	± 180 mm	57 kg
1117	5000 kg	1150 mm	1750 mm	± 180 mm	66 kg
1120	5000 kg	1150 mm	2000 mm	± 180 mm	75 kg
1315	5000 kg	1300 mm	1500 mm	± 200 mm	63 kg
1317	5000 kg	1300 mm	1750 mm	± 200 mm	73 kg
1320	5000 kg	1300 mm	2000 mm	± 200 mm	83 kg
1515	5000 kg	1500 mm	1500 mm	± 250 mm	71 kg
1517	5000 kg	1500 mm	1750 mm	± 250 mm	82 kg
1520	5000 kg	1500 mm	2000 mm	± 250 mm	94 kg
1715	5000 kg	1750 mm	1500 mm	± 280 mm	81 kg
1717	5000 kg	1750 mm	1750 mm	± 280 mm	94 kg
1720	5000 kg	1750 mm	2000 mm	± 280 mm	108 kg
2015	5000 kg	2000 mm	1500 mm	± 300 mm	91 kg
2017	5000 kg	2000 mm	1750 mm	± 300 mm	106 kg
2020	5000 kg	2000 mm	2000 mm	± 300 mm	120 kg

Other dimensions possible on request

Options:

- Reinforcements for a 6 tons capacity
- Beveled lip
- External frame
- Fixed or sliding bumpers
- Shorter right lip



2.18. SLIDING DRAWBRIDGE LEVELER ON RAIL - TYPE 8860



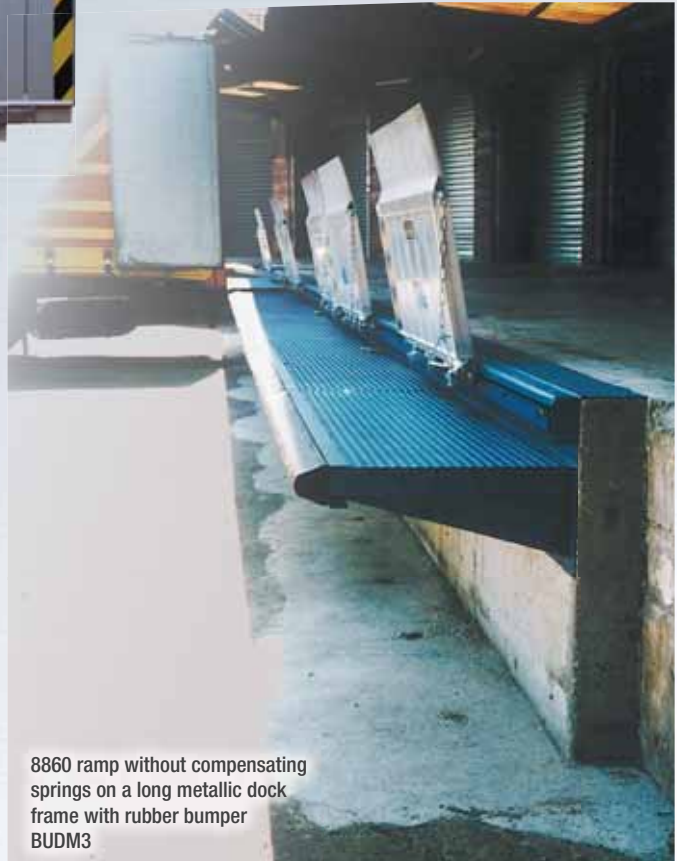
To facilitate their use, some models of 8860 ramps are compensating with a compression spring (see availability on the array of the page on the right).

The rail is delivered in length of 3 m. **Several rails can be assembled along the entire length of the dock.** They are either welded to an existing well-sealed iron, or delivered with sealing tabs ready to be sealed in concrete.

- ▶ Capacity up to 5000 kg
- ▶ Robust construction in aluminum profile
- ▶ Lateral displacement effortlessly
- ▶ Positiv and negativ service range
- ▶ Compensating springs for effortless and easy handling on some models
- ▶ Auto lock in the vertical position
- ▶ Auto Unlock:
just a simple pressure of the hand unlocks the ramp
- ▶ Chain or lifting lever (depending on model)
- ▶ Fixing in a steel rail . This rail can be welded to an existing iron or directly sealed during the casting of the concrete slab.

Benefits of the product

Very flexible, only one ramp can be use on multiple loading stations and adjust to the more or less precise location of the trucks.



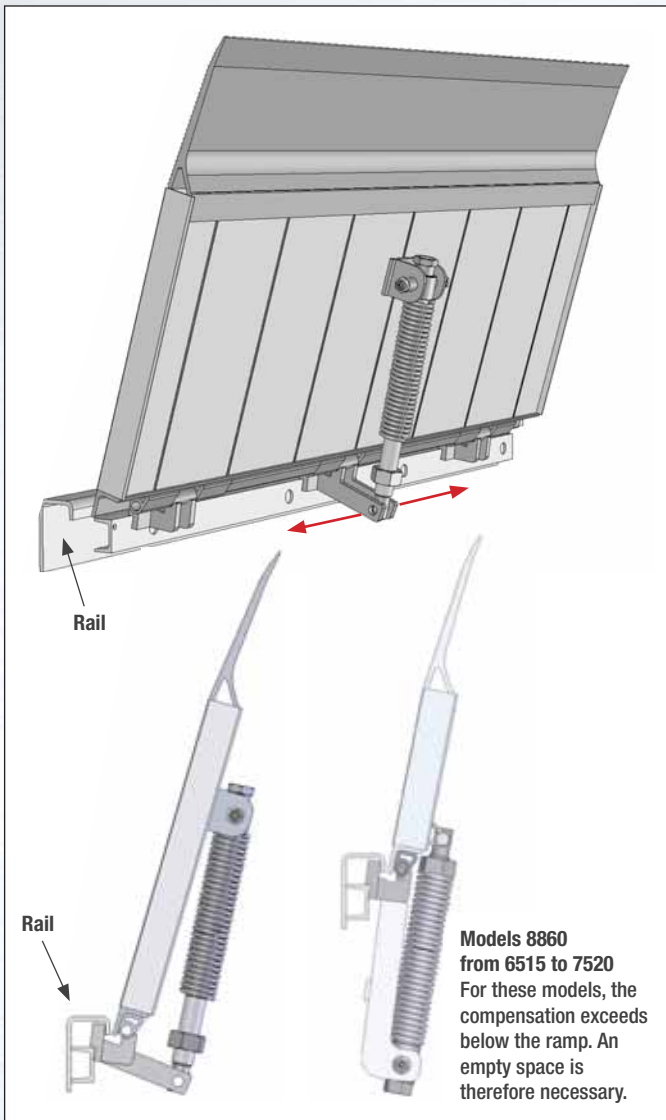
8860 ramp without compensating springs on a long metallic dock frame with rubber bumper BUDM3

A long metal dock frame is a good solution in the case of renovation or upgrading of an existing loading dock. It permits to avoid civil engineering while ensuring safe work. The rolling rail is closed, so protected from dirt. A single ramp can be used on multiple trucks.



8860 loading ramp on a special frame





Model	Capacity	Length	Width	Service range	Compensat.	Weight
8860 6510	5000 kg	650 mm	1000 mm	± 85 mm	No	35 kg
8860 6512	5000 kg	650 mm	1250 mm	± 85 mm	No	40 kg
8860 6515	5000 kg	650 mm	1500 mm	± 85 mm	No	46 kg
8860 6517	5000 kg	650 mm	1750 mm	± 85 mm	No	52 kg
8860 6520	5000 kg	650 mm	2000 mm	± 85 mm	No	63 kg
8860 65201	5000 kg	650 mm	2000 mm	± 100 mm	Yes	46 kg
8860 7515	5000 kg	750 mm	1500 mm	± 100 mm	No	50 kg
8860 7517	5000 kg	750 mm	1750 mm	± 100 mm	No	57 kg
8860 7520	5000 kg	750 mm	2000 mm	± 100 mm	No	63 kg
8860 75201	5000 kg	750 mm	2000 mm	± 100 mm	Yes	68 kg
8860 9515	5000 kg	950 mm	1500 mm	± 120 mm	No	58 kg
8860 9517	5000 kg	950 mm	1750 mm	± 120 mm	No	66 kg
8860 95171	5000 kg	950 mm	1750 mm	± 120 mm	Yes	71 kg
8860 9520	5000 kg	950 mm	2000 mm	± 120 mm	Yes	80 kg

Options:

- Beveled lip
- External frame
- Metallic dock frame with rail and rubber bumper Ref.BUDM3
- Fixed or sliding bumpers



2.19. STATIONARY DRAWBRIDGE LEVELER WITH MONOBLOC FRAME - TYPE 8860

8860 ramp on standard monobloc frame

The ramp and the frame are delivered ready to install. The standard frame is equipped with fixed bumpers BULA3 (see p 112).



Economic solution without civil engineering

- ▶ Capacity 5000 kg
- ▶ Robust construction in aluminum profile
- ▶ Positiv and negativ service range
- ▶ Side handrails
- ▶ Auto lock in the vertical position
- ▶ Auto Unlock:
just a simple pressure of the hand unlocks the ramp
- ▶ Standard dock cover cap (with countersunk heads dowels)
It is strongly recommended for frame depth 800/820 mm and when there is a doubt about the solidity of the nose of dock



8860 ramp with sliding bumpers BUM0115 and serrated grating floor

Benefits of the product

The steel monobloc frame with integrated bumpers facilitates the docking of trucks and protects the ramp from wrong operations of the vehicle, thus guaranteeing the longevity of the material. Economic solution without civil engineering.

Model	Capacity	Length x ramp width (mm)	Frame depth	Frame width	Service range
8860 6517	5000 kg	650x1000	500 mm	2300 ⁽¹⁾ /2500 ⁽²⁾	± 85 mm
8860 6520	5000 kg	650x1250	500 mm	2500 ⁽¹⁾ /2750 ⁽²⁾	± 85 mm
8860 6522	5000 kg	650x1500	500 mm	2800 ⁽¹⁾ /3000 ⁽²⁾	± 85 mm
8860 7517	5000 kg	750x1750	600 mm	2300 ⁽¹⁾ /2500 ⁽²⁾	± 100 mm
8860 7520	5000 kg	750x2000	600 mm	2500 ⁽¹⁾ /2750 ⁽²⁾	± 100 mm
8860 7522	5000 kg	750x2000	600 mm	2800 ⁽¹⁾ /3000 ⁽²⁾	± 100 mm
8860 9017	5000 kg	900x1500	750 mm	2300 ⁽¹⁾ /2500 ⁽²⁾	± 120 mm
8860 9020	5000 kg	900x1750	750 mm	2500 ⁽¹⁾ /2750 ⁽²⁾	± 120 mm
8860 9022	5000 kg	900x2000	750 mm	2800 ⁽¹⁾ /3000 ⁽²⁾	± 120 mm

(1) Frame with fixed bumpers BULA3 (2) Frame with sliding bumpers BUM0115

- ▶ Compensated model: Compensating spring for easy and effortless handling.
- ▶ Not compensated model: with an automatic locking bolt in the vertical position. Foot unlocking
- ▶ Chain or lifting lever

Options:

- Steel sliding bumpers ref. BUM0115
- Metal pre-frame for setting a dock shelter
- Checker plate or serrated grating floor
- Dock cover neb cap with folded extremity which allows to anchor the cap to the dock.



Stationary drawbridge leveler with anti-squash monobloc frame - Type POEL9020



Electrified stationary drawbridge leveler with anti-squash monobloc frame - Type 8860



Equipped with a hydraulic unit with command box, this ramp is very easy to use, it is very appreciable when docking are frequent. Once raised, the ramp makes is like a barrier behind the door permitting to reduce the risk of accidents: falls of people or handling equipment.

- Onboard hydraulic unit:
Engine power 0.5 KW flow rate 3.7 l / min, power supply 400 or 230 V TRI 50 Hz + Earth, solenoid valve 24 V
- Lifting cylinder, single acting rod Ø30 mm
- Parachute valve at the bottom of the cylinder
- Dimensions of the aluminum ramp (except frame): Width 2000 mm, Length 900 mm
- Capacity 5000 kg
- Service range ± 150 mm



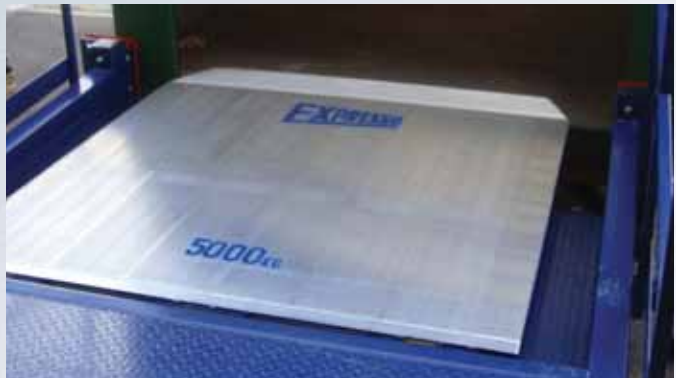
2.20. EXTERNAL FRAME WITH LOADING RAMP

Standard loading frame



Benefits of the product

- **No civil engineering:** no need to create pits.
- **Truck docking assistance:** when the trucks is against the bumper, just put the loading ramp with a slight pressure of the hand.
- **Safety of the staff:** There is no gap between the dock and the truck.
- **Protection of the ramp, the rail and the building** from the shocks during the docking operations of trucks.



- ▶ Capacity 5000 kg
- ▶ External frame with height adjustable legs
- ▶ Aluminium loading ramp - Type 8862 (see p 72) or 8860 (see p 74)
- ▶ Rubber bumpers Ref. BUCC20 (see p 111)
- ▶ Side handrails
- ▶ Quick installation by pegs against the dock

Options:

- Steel sliding bumpers BUM0115 (see p 113)
- Taillift space (see page on the right)
- Taillift space with rear table that extends the frame behind the ramp (see picture below)
- Standard dock cover cap (with countersunk head pegs)
- Dock cover neb cap with folded extremity which allows to anchor the cap to the dock (with countersunk head pegs)



Loading ramp with external frame with tailback reserve and anti-squash refuge area



Model	Capacity	Frame width	Frame depth	Ramp length	Ramp width	Service range	Loading ramp weight
8862 1115	5000 kg	2300 / 2100 mm*	1000 mm	1150 mm	1500 mm	± 180 mm	57 kg
8862 1117	5000 kg	2300 / 2100 mm*	1000 mm	1150 mm	1750 mm	± 180 mm	66 kg
8862 1120	5000 kg	2300 / 2100 mm*	1000 mm	1150 mm	2000 mm	± 180 mm	75 kg
8862 1315	5000 kg	2300 / 2100 mm*	1150 mm	1300 mm	1500 mm	± 200 mm	63 kg
8862 1317	5000 kg	2300 / 2100 mm*	1150 mm	1300 mm	1750 mm	± 200 mm	73 kg
8862 1320	5000 kg	2300 / 2100 mm*	1150 mm	1300 mm	2000 mm	± 200 mm	83 kg
8862 1515	5000 kg	2300 / 2100 mm*	1350 mm	1500 mm	1500 mm	± 250 mm	71 kg
8862 1517	5000 kg	2300 / 2100 mm*	1350 mm	1500 mm	1750 mm	± 250 mm	82 kg
8862 1520	5000 kg	2300 / 2100 mm*	1350 mm	1500 mm	2000 mm	± 250 mm	94 kg
8862 1715	5000 kg	2300 / 2100 mm*	1600 mm	1750 mm	1500 mm	± 280 mm	81 kg
8862 1717	5000 kg	2300 / 2100 mm*	1600 mm	1750 mm	1750 mm	± 280 mm	94 kg
8862 1720	5000 kg	2300 / 2100 mm*	1600 mm	1750 mm	2000 mm	± 280 mm	108 kg
8862 2015	5000 kg	2300 / 2100 mm*	1850 mm	2000 mm	1500 mm	± 300 mm	91 kg
8862 2017	5000 kg	2300 / 2100 mm*	1850 mm	2000 mm	1750 mm	± 300 mm	106 kg
8862 2020	5000 kg	2300 / 2100 mm*	1850 mm	2000 mm	2000 mm	± 300 mm	120 kg

Other possible dimensions on request (*) with fixed bumpers BUCC20 / with sliding bumpers BUMO or fixed bumpers BULA





DOCK PLATES AND DOCK BOARDS



2.21. ALUMINIUM LOADING DOCK PLATES - TYPE L / L8779

Aluminium loading dock board with retractable handles - Ref. L8779

- ▶ Capacity 4000 kg
- ▶ Anti-Shake rigid rounded profile
- ▶ Non-skid grooved aluminum profile for an important passage frequency
- ▶ For hand trucks, roll, pallet truck and forklift trucks max. 4000 kg
- ▶ Anti-skid safety stop on underside
- ▶ Retractable handles

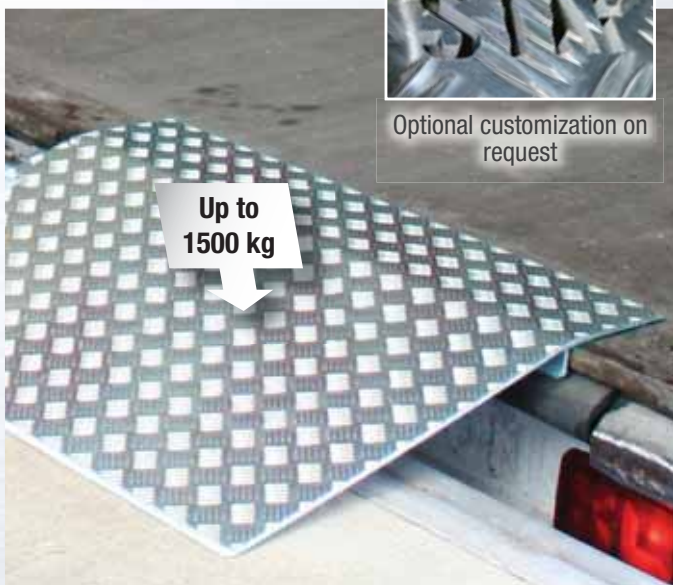


Aluminium dock plate - Ref. L

- ▶ Capacity up to 1500 kg
- ▶ Very resistant non-skid aluminum tread plate
- ▶ For hand trucks and electric or manual pallet truck max. 1500 kg
- ▶ Safety stop on underside to avoid the plate to slide
- ▶ Handhold cutouts on either side



Optional customization on request



Model	Capacity	Length	Width	Service range	Weight
L8761	1000 kg	800 mm	1000 mm	± 150 mm	18 kg
L8763	1000 kg	1000 mm	800 mm	± 170 mm	18 kg
L8764	1000 kg	1500 mm	800 mm	± 280 mm	30 kg
L8769	1000 kg	1000 mm	1000 mm	± 170 mm	21 kg
L8770	1000 kg	1200 mm	1000 mm	± 220 mm	26 kg
L8781	1500 kg	800 mm	1250 mm	± 150 mm	25 kg
L8783	1500 kg	1000 mm	1250 mm	± 170 mm	30 kg
L8790	1500 kg	1200 mm	1250 mm	± 220 mm	39 kg
L8784	1500 kg	1500 mm	1250 mm	± 280 mm	47 kg
L8779/1250	4000 kg	550 mm	1250 mm	± 75 mm	26 kg
L8779/1500	4000 kg	550 mm	1500 mm	± 75 mm	30 kg
L8779/1750	4000 kg	550 mm	1750 mm	± 75 mm	36 kg
L8779/2000	4000 kg	550 mm	2000 mm	± 75 mm	40 kg



Placing a L dock plate



Aluminium dock board Ref. L8779
Capacity 4000 kg

2.22. ALUMINIUM LOADING DOCK BOARDS - TYPE L8773 / L8778

Aluminium dock board - Ref. L8773

- ▶ Anti-Shake rounded profile (3 ply)
- ▶ High resistance grooved aluminum sheet: ensures good adhesion to handling equipment
- ▶ For hand trucks and electric or manual pallet truck max. 2000 kg (4000 kg for the reinforced models)
- ▶ Anti-skid safety stop on underside
- ▶ Handhold cutouts on either side



Model	Capacity	Length	Width	Service range	Weight
L8773/10	2000 kg	700 mm	1000 mm	± 100 mm	16 kg
L8773/15	2000 kg	700 mm	1500 mm	± 100 mm	25 kg
L8773/17	2000 kg	700 mm	1750 mm	± 100 mm	29 kg
L8773/20	2000 kg	700 mm	2000 mm	± 100 mm	33 kg
L8773/15R	4000 kg	700 mm	1500 mm	± 100 mm	36 kg
L8773/17R	4000 kg	700 mm	1750 mm	± 100 mm	42 kg
L8773/20R	4000 kg	700 mm	2000 mm	± 100 mm	48 kg
L8778/15	6000 kg	800 mm	1500 mm	± 115 mm	68 kg
L8778/20	6000 kg	800 mm	2000 mm	± 115 mm	90 kg

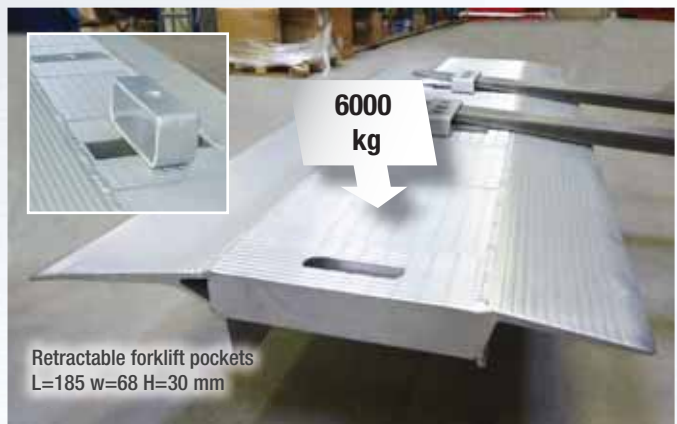


L8773



Aluminium loading dock board with forklift pockets - Ref. L8778

- ▶ Capacity 6000 kg
- ▶ Rigid dock board high strength aluminum profile
- ▶ Retractable forklift pockets
- ▶ Non-skid grooved aluminum profile for a significant frequency of passage
- ▶ For hand trucks, roll, pallet truck and forklift trucks
- ▶ Anti-skid safety stop on underside
- ▶ Handhold cutouts



Retractable forklift pockets
L=185 w=68 H=30 mm



Alluminium loading dock board L8773



L8778 loading dock board with standard forklift pockets

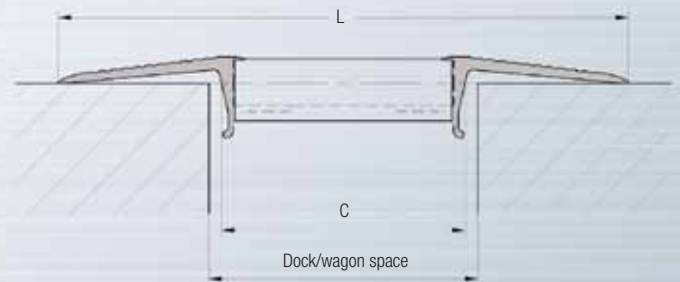
Alluminium dock board specific dock/wagon or truck - Ref. TW

- ▶ Capacity 4000 kg
- ▶ Wagons transhipment (or trucks)
- ▶ High resistance aluminum profile
- ▶ Non-skid grooved surface
- ▶ For hand trucks, roll, pallet truck and forklift trucks
- ▶ Anti-skid safety stop on underside
- ▶ Handhold cutouts on either side
- ▶ 6 ton models on request



Model	Length	Width	Service range	Space dock/wagon	C	Poids
TW 7205	520 mm	1500 mm	+50 mm	190 to 290 mm	185 mm	27 kg
TW 7210	590 mm	1500 mm	+60 mm	260 to 360 mm	255 mm	29 kg
TW 7215	690 mm	1500 mm	+70 mm	360 to 460 mm	355 mm	33 kg

Other widths (multiple of 250 mm) on request



Options:

- Retractable forklift pockets
L=185 w=68 H=30 mm
- Displacement castorréf.
ACPO6 Ø125 mm



TW dock board used here between a dock and the trailer of a truck



TW dock board used here between a dock and a wagon

2.23. MANUAL LOADING DOCK BOARDS - TYPE SM

Benefits of the product

These aluminium dock boards very light and very manageable are composed of a single profile (of two moving parts) which perfectly compensates for the imperfections of the ground on the access lip. It is thus easy to transfer loads of 5000 kg.

- ▶ High resistance aluminum profile loading dock board with non-skid surface
- ▶ Articulated access lip
- ▶ Non-slip rubber band and noise canceling at the support point of the ramp on the floor
- ▶ Anti-skid safety stop on underside
- ▶ Castors on the edge
- ▶ Handhold cutouts



A stop (trailer side) and a non-slip rubber band (in contact with the floor of the dock) ensure a perfect stability during loading and unloading operations.

The rubber band also has a sound-absorbing function.

Model	Capacity	Length	Width	Service range	Weight
SM 7005	5000 kg	1270 mm	1255 mm	+ 200 mm	52 kg
SM 7010	5000 kg	1270 mm	1505 mm	+ 200 mm	62 kg
SM 7025	4500 kg	1560 mm	1255 mm	+ 250 mm	61 kg
SM 7030	4500 kg	1560 mm	1505 mm	+ 250 mm	72 kg
SM 7035	4300 kg	1760 mm	1255 mm	+ 285 mm	67 kg
SM 7040	4300 kg	1760 mm	1505 mm	+ 285 mm	79 kg
SM 7045	4000 kg	1960 mm	1255 mm	+ 320 mm	73 kg
SM 7050	4000 kg	1960 mm	1505 mm	+ 320 mm	86 kg



SM dock board



SM dock board

2.24. MANUAL LOADING DOCK BOARDS - HORIZONTAL MOVEMENT - TYPE BSM

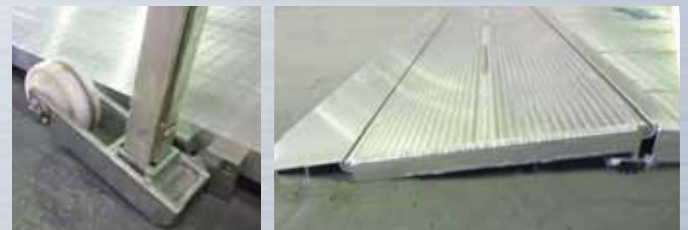


Model	Capacity	Length	Width	Service range	Weight
BSM 1515	4500 kg	1500 mm	1500 mm	+ 225 mm	91 kg
BSM 1517	4700 kg	1500 mm	1750 mm	+ 225 mm	104 kg
BSM 1520	5000 kg	1500 mm	2000 mm	+ 225 mm	117 kg
BSM 2015	4000 kg	2000 mm	1500 mm	+ 300 mm	115 kg
BSM 2017	4200 kg	2000 mm	1750 mm	+ 300 mm	132 kg
BSM 2020	4500 kg	2000 mm	2000 mm	+ 300 mm	149 kg
BSM 2515	3500 kg	2500 mm	1500 mm	+ 375 mm	139 kg
BSM 2517	3700 kg	2500 mm	1750 mm	+ 375 mm	160 kg
BSM 2520	4000 kg	2500 mm	2000 mm	+ 375 mm	181 kg
BSM 3015	3000 kg	3000 mm	1500 mm	+ 450 mm	163 kg
BSM 3017	3200 kg	3000 mm	1750 mm	+ 450 mm	188 kg
BSM 3020	3500 kg	3000 mm	2000 mm	+ 450 mm	213 kg
BSM 3515	2500 kg	3500 mm	1500 mm	+ 525 mm	187 kg
BSM 3517	2700 kg	3500 mm	1750 mm	+ 525 mm	216 kg
BSM 3520	3000 kg	3500 mm	2000 mm	+ 525 mm	245 kg

Benefits of the product

The lever allows to lift the ramp, on its castors it can easily be moved to the truck. For safety, the castors are not in contact with the ground during the transshipment and an anti-slip rubber at the support point of the bridge, on the dock, ensures adhesion.

- ▶ High resistance aluminum profile loading dock board with Non-skid surface
- ▶ Articulated access lip
- ▶ Anti-skid safety stop on underside
- ▶ Non-slip rubber band and noise canceling at the support point of the bridge on the floor
- ▶ 2 retractable castors
- ▶ Removable operating lever: Thanks to the lever and the side castors, this dock board can be maneuvered easily by one person (even for longer models up to 3.5 m).



2.25. STEEL MANUAL LOADING DOCK BOARDS - HORIZONTAL MOVEMENT - TYPE B



Benefits of the product

Thanks to the removable operating lever and side castors, this large mobile loading ramp can be maneuvered easily by one person.

The lever allows to lift the ramp, on its castors it can easily be moved to the loading dock.

For safety, the castors are not in contact with the ground during the transshipment and an anti-slip rubber at the support point of the bridge, on the dock, ensures adhesion.

- ▶ **Capacity up to 4000 kg**
according to model
- ▶ **Robust steel loading ramp**
- ▶ **Articulated access lip**
- ▶ **Anti-skid safety stop on underside**
- ▶ **Non-slip rubber band and noise canceling at the support point of the bridge on the floor**
- ▶ **2 retractable polyamide castors Ø125 mm**
- ▶ **Removable operating lever:**
Thanks to the lever and side castors, this large mobile loading ramp can be maneuvered easily by one person.



Model	Capacity	Length	Width	Service range	Weight
B 8840	4000 kg	1500 mm	1250 mm	+250 mm	141 kg
B 8840 E	4000 kg	1500 mm	1500 mm	+250 mm	175 kg
B 8850	4000 kg	1875 mm	1250 mm	+300 mm	150 kg
B 8850 E	4000 kg	1875 mm	1500 mm	+300 mm	200 kg
B 8852	4000 kg	2300 mm	1250 mm	+370 mm	182 kg
B 8854	3500 kg	2725 mm	1250 mm	+450 mm	210 kg



B steel loading ramp



B steel loading ramp

2.26. LOADING RAMPS DESIGNED TO BE PUT IN PLACE WITH A FORKLIFT - TYPE FR

- ▶ Capacity 6000 kg
- ▶ Robust steel construction with reinforcements
- ▶ Steel forklift pockets in the loading ramp structure
- ▶ 2 articulated lips with handhold cutouts
- ▶ Non-skid grooved steel sheet
- ▶ Anti-skid safety stop on underside
- ▶ Two anti-slip and noise-reducing rubber pads

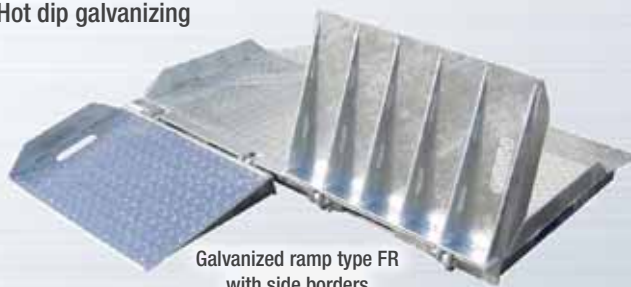


Placing with forklift truck



Options:

- Lateral borders
- Hot dip galvanizing



Galvanized ramp type FR with side borders



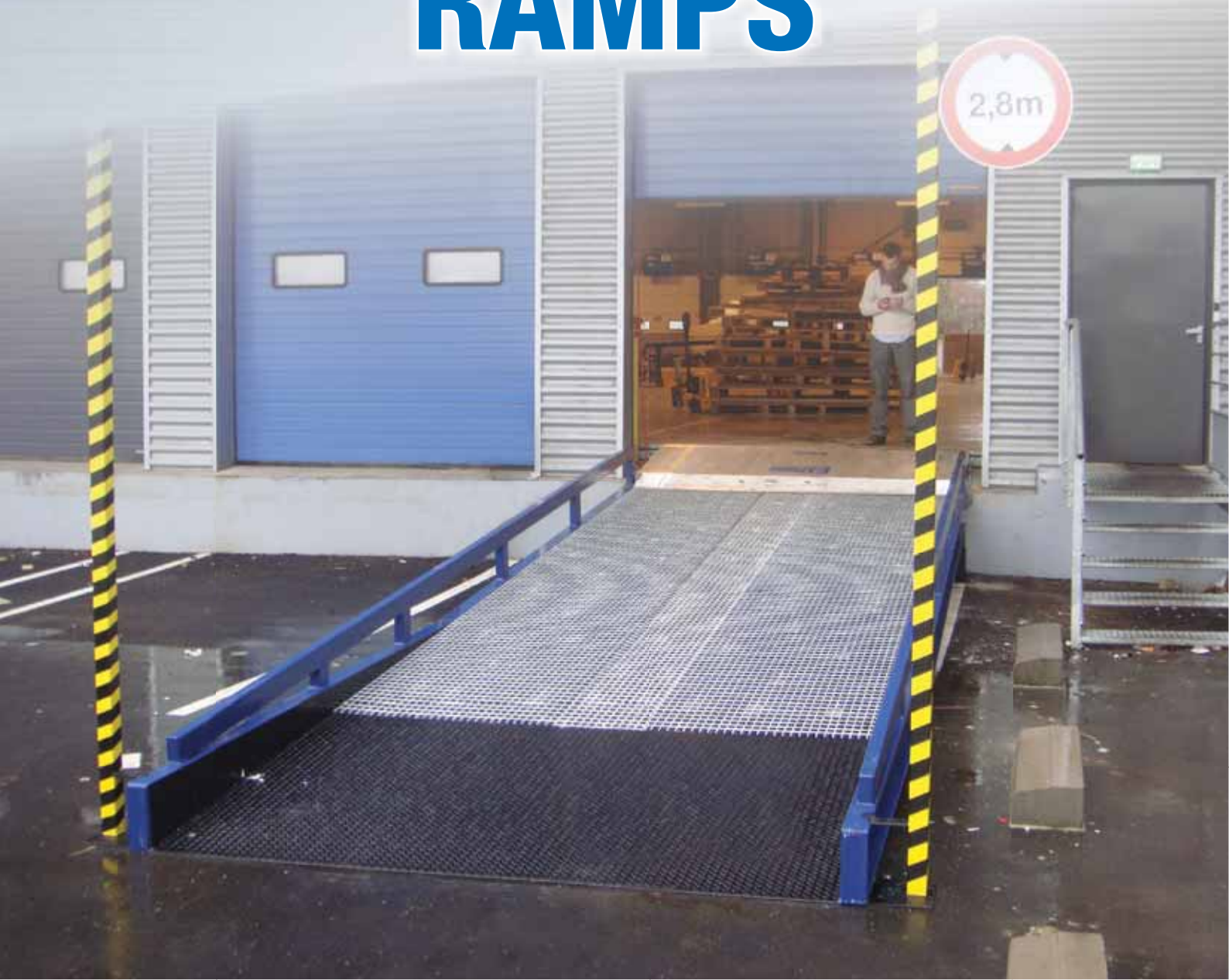
Galvanized ramp type FR with side borders

Model	Capacity	Length	Width	Service range	Weight
FR 1515	6000 kg	1500 mm	1500 mm	+ 250 mm	207 kg
FR 1520	6000 kg	1500 mm	2000 mm	+ 250 mm	276 kg
FR 1522	6000 kg	1500 mm	2500 mm	+ 250 mm	303 kg
FR 2015	6000 kg	2000 mm	1500 mm	+ 300 mm	310 kg
FR 2020	6000 kg	2000 mm	2000 mm	+ 300 mm	380 kg
FR 2022	6000 kg	2000 mm	2500 mm	+ 300 mm	400 kg
FR 2515	6000 kg	2500 mm	1500 mm	+ 375 mm	340 kg
FR 2520	6000 kg	2500 mm	2000 mm	+ 375 mm	450 kg
FR 2522	6000 kg	2500 mm	2500 mm	+ 375 mm	500 kg
FR 3015	6000 kg	3000 mm	1500 mm	+ 450 mm	430 kg
FR 3020	6000 kg	3000 mm	2000 mm	+ 450 mm	550 kg
FR 3022	6000 kg	3000 mm	2500 mm	+ 450 mm	600 kg





LOADING YARD RAMPS



2.27. STATIONARY LOADING YARD RAMP



Options:

- Side handrails (height 1000 mm)
- Deployed metal on the slope (see p 91)
- Finish : Hot dip galvanizing



Benefits of the product

The stationary yard ramp is the ideal solution in all cases you need an access ramp but that:

- You can not afford to stop the dock for several days (in the case of a concrete ramp)
- You are renting and do not want to invest
- You may need to change the location of this ramp

Stationary yard ramp with or without intermediate legs, delivered and installed in your dock in less than one day.

- ▶ Side crash barrier (height 300 mm)
- ▶ Anti-skid and self-cleaning galvanized serrated grating rolling surface
- ▶ 2 adjustable fixed legs⁽¹⁾ (± 50 mm) or metal cap⁽²⁾ covering the noise of dock
- ▶ Treadplate access



Model	Capacity	Slope length	Overall width	Service range	Weight
RF/08-06	6000 kg	8000 mm	2200 mm	80 à 90 cm	3 t
RF/08-10	10000 kg	8000 mm	2200 mm	80 à 90 cm	3,2 t
RF/10-06	6000 kg	10000 mm	2200 mm	100 à 110 cm	3,4 t
RF/10-10	10000 kg	10000 mm	2200 mm	100 à 110 cm	3,5 t
RF/12-06	6000 kg	12000 mm	2200 mm	120 à 130 cm	4,5 t
RF/12-10	10000 kg	12000 mm	2200 mm	120 à 130 cm	4,6 t

Other dimensions on request



2.28. YARD RAMP

**Short and long term renting
on the model : Loading ramp 12 m 10 tons**



**Economic
solution without civil
engineering**



stowage chains



Tidy towing bar



Adjustable
standing legs



Wheels with solid filled tires

Benefits of the product

The mobile yard ramp allows forklifts trucks to access directly inside trucks, containers or wagons and perform loading or unloading without breaking the load in an optimal time.

- Mobility of loading posts
- Acceleration of loading rates
- Labor saving
- Civil engineering saving (compared to a fixed dock)
- The ramp is delivered on a flatbed truck, ready to use
- The yard ramp fits all vehicles with its hydraulic system.

- ▶ Capacity from 6 to 10 tons (or more on request)
- ▶ Anti-skid and self-cleaning galvanized serrated grating rolling surface
- ▶ Side crash barrier height 300 mm
- ▶ 2 wheels with solid filled tires Ø450 mm
- ▶ 2 hydraulic cylinders operated by hand pump, lift stroke from 950 to 1750 mm
- ▶ 2 adjustable standing legs pin height adjustable
- ▶ 2 stowage chains for safety
- ▶ Removable towing bar
- ▶ Standard length 12 and 16 m
- ▶ Standard working width 2200 mm
- ▶ Horizontal part 2500 mm

Operating mode

- 1) Operate the hand pump to raise the ramp to a height higher than the floor of the truck.
- 2) Make approach the truck, act on the hydraulic valve: the ramp goes down and comes to rest on the vehicle.
- 3) Fix the stowage chains, adjust the safety standing legs, transshipment can begin.



16 meters yard ramp



Moving the ramp with the towing bar



Deployed metal



Covered yard ramp



Orientable forklift pocket



Widen mobile ramp with side handrails and access ladder



Electric kit: control box + hydraulic unit + control unit

Options:

- **Electric kit:**
Hydraulic unit, Electrical control box, control unit, power 220/380 V 50HZ TRI + Earth
- **Side handrails** (height 1100 mm) overcoming the guardrail
- **Orientable forklift pocket** to adjust the positioning of the ramp with the aid of a forklift truck
- **Deployed metal**
- **Covered structure:** metallic frame in steel tube covered with a PVC fabric with translucent strips



Covered yard ramp



2.29. YARD RAMP WITH ENLARGED HORIZONTAL PART



Benefits of the product

This ramp has a 3 meters enlarged horizontal part which facilitates transshipment maneuvers and can be used to simultaneously load multiple trucks or wagons.

On the horizontal part, the both sides of the horizontal part have optional rails with drawbridge levelers type PAR (see p 71).

In the case of lateral loading, the ramp is resting on its legs. A crank allows to adjust their height (± 450 mm).

The ramp is delivered ready to use, its hydraulic adjustment system makes it easy to adapt to all vehicles.

Thanks to its removable towing bar, the perfectly balanced ramp on its wheelset, can easily be moved with a forklift.

- ▶ Enlarged horizontal part width 3000 mm
- ▶ Rail for loading ramps on one or two sides (optional)
- ▶ 2 or 4 aluminium drawbridge levelers type PAR 600 x 1000 mm (optional)
- ▶ Anti-skid and self-cleaning galvanized serrated grating rolling surface
- ▶ Side crash barrier height 300 mm
- ▶ 2 wheels with solid filled tires $\varnothing 450$ mm
- ▶ 2 hydraulic cylinders operated by a manual pump
- ▶ 2 adjustable standing legs pin height adjustable
- ▶ 2 stowage chains for safety
- ▶ Removable towing bar
- ▶ Standard length 12 and 16 m,
 - Horizontal part length 2500 mm
 - Horizontal part width 3000 mm
 - Standard working width 2200 mm
- ▶ Same options as the standard yard ramp (see p 90)



12/10/BR yard ramp with its 3 meters enlarged horizontal part



12/10/BR yard ramp with removable side crash barriers

2.30. LEVELING RAMP FOR LCV



Economic solution without civil engineering

Benefits of the product

On the loading docks for trucks, the light commercial vehicles (LCV) can not be unloaded as they are too low.

One solution is to set up a leveling ramp with an horizontal part that allows to place the vehicles at the desired height.

- ▶ Side crash barrier (height 300 mm)
- ▶ Anti-skid and self-cleaning galvanized serrated grating rolling surface
- ▶ Treadplate access
- ▶ Optional side handrails (height 1000 mm)

When the height difference is low (< 350 mm) truck wheel risers (see p 114) can also be used but do not always allow to position the vehicles flatwise.



15 meters ramp wide in 5 elements



When vehicles are always of the same type, it is possible to use ramps in two parts specially adapted to their size.

If it's not the case, it is better to install a monobloc ramp that will ensure the comfort and safety of users independent of the type of LCV.



2.31. STATIONARY RAMP WITH INTEGRATED DOCK LEVELER

Multiple configurations are possible according to your needs. The specifications are the same as those for standard stationary loading yard ramp (see p. 89).

Ramps are usually made to measure.

Benefits of the product

The stationary ramp with integrated leveler is the ideal solution when you do not have a loading dock and that you want to avoid significant civil engineering costs.



**A complete 2 in 1 solution:
Dock leveler and loading ramp**

Options:

- **Covered structure** : metallic frame in steel tube covered with a PVC fabric with translucent strips
- **Inlet structure**
- **Side handrails** (height 1100 mm) overcoming the side crash barriers
- **Adjustable ramp height** (hydraulic adjustment of the ramp height in addition to the dock leveler height)
- **Deployed metal**
- Dock shelter (see p 104)
- Fixed or sliding bumpers (see page 112) on the leveler



Economic solution without civil engineering



Stationary ramp with integrated dock leveler, covered structure and dock shelter



Stationary ramp with inlet structure and integrated dock leveler

2.32. ALUMINIUM FOLDING WALK RAMPS

Folding walk ramp - Ref. L/8772/20

Lightweight and easy to store in a small vehicle, this aluminium ramp is ideal for loading with hand trucks or 4-wheeled trolley. Non-slip aluminium profile.



Ramp L/8772/20 with removable castors accessory Ø80 mm ref. ACRA3

Folding ramp with two parts - Ref. L/8772/44

Light and easy to store in small vehicles, the anti-slip aluminium profile ramp consisting of two parts is equipped with four handles. Perfect for loading using a hand truck or a four-wheel cart.



Model	Capacity	Length	Width	Service range	Weight
L/8772/20	400 kg	2000 mm	800 mm	+600 mm	32 kg
L/8772/26	240 kg	2600 mm	800 mm	+750 mm	40 kg
L/8772/44	300 kg	2000 mm	2x400 mm	+600 mm	2x16 kg



Folding ramp L/8772/44



Folding ramp L/8772/20

2.33. ALUMINIUM WALK RAMP - TYPE WAL



- ▶ Articulated access lip with non-slip rubber band and noise-canceling (at the support point of the ramp on the ground)
- ▶ Anti-skid high-strength aluminum profile to transverse grooves as strong as steel but 50% lighter
- ▶ Two transport wheels
- ▶ Anti-skid safety stop on underside
- ▶ Handhold cutouts

Model	Capacity	Length	Width	Service range	Handhold cutouts	Weight
WAL2007	4000 kg	2000 mm	750 mm	+ 600 mm	2	46 kg
WAL2010	4000 kg	2000 mm	1000 mm	+ 600 mm	2	61 kg
WAL2507	3400 kg	2500 mm	750 mm	+ 750 mm	2	57 kg
WAL2510	3400 kg	2500 mm	1000 mm	+ 750 mm	2	75 kg
WAL3007	2700 kg	3000 mm	750 mm	+ 900 mm	2	68 kg
WAL3010	2700 kg	3000 mm	1000 mm	+ 900 mm	2	89 kg
WAL3507	2300 kg	3500 mm	750 mm	+ 1050 mm	4	79 kg
WAL3510	2300 kg	3500 mm	1000 mm	+ 1050 mm	4	104 kg
WAL4007	1900 kg	4000 mm	750 mm	+ 1200 mm	4	90 kg
WAL4010	1900 kg	4000 mm	1000 mm	+ 1200 mm	4	118 kg
WAL4507	1700 kg	4500 mm	750 mm	+ 1350 mm	4	101 kg
WAL4510	1700 kg	4500 mm	1000 mm	+ 1350 mm	4	132 kg
WAL5007	5000 kg	5000 mm	750 mm	+ 1500 mm	4	111 kg
WAL5010	5000 kg	5000 mm	1000 mm	+ 1500 mm	4	146 kg

It is essential to indicate the service range height at the order

Options:

- Side edges 30 mm high



Articulated access lip



Handhold cutouts



Wheel Ø125 mm



Walk ramp WAL4010 with side edges 30 mm high



2.34. LOADING RAMPS FOR VEHICLE LOADING

Aluminium loading ramps for vehicle Type RA



- ▶ These aluminium ramps are used by pairs, they are specially designed for loading light vehicles on trailers
- ▶ High-strength non-slip aluminum profile with transverse grooves as strong as steel but 50% lighter
- ▶ Articulated access lip with non-slip rubber band and noise-canceling (at the support point of the ramp on the ground)
- ▶ Anti-skid safety stop on underside

Model	Capacity	Length	Width	Service range	Weight (pair)
RA202	4000 kg	2000 mm	250 mm	+ 400 mm	19 kg
RA205	4000 kg	2000 mm	500 mm	+ 400 mm	34 kg
RA252	3500 kg	2500 mm	250 mm	+ 500 mm	23 kg
RA255	3500 kg	2500 mm	500 mm	+ 500 mm	42 kg
RA302	3000 kg	3000 mm	250 mm	+ 600 mm	28 kg
RA305	3000 kg	3000 mm	500 mm	+ 600 mm	50 kg
RA352	2600 kg	3500 mm	250 mm	+ 700 mm	33 kg
RA355	2600 kg	3500 mm	500 mm	+ 700 mm	58 kg
RA402	2300 kg	4000 mm	250 mm	+ 800 mm	38 kg
RA405	2300 kg	4000 mm	500 mm	+ 800 mm	66 kg
RA452	2000 kg	4500 mm	250 mm	+ 900 mm	42 kg
RA455	2000 kg	4500 mm	500 mm	+ 900 mm	74 kg
RA502	1500 kg	5000 mm	250 mm	+ 1000 mm	47 kg
RA505	1500 kg	5000 mm	500 mm	+ 1000 mm	82 kg



Ramps RA505 with optional side edges

Options:

- Side edges 30 mm high





LOADING TABLES AND LOADING PLATFORMS



2.36. STATIONARY LOADING PLATFORM

Loading platform extending the dock or serving as a loading dock

The loading platform (or dock loading table) can be very useful in some configurations to optimize the loading dock and transhipment operations.

The loading platform can be equipped with aluminium loading ramp(s) type 8861 (See p 72) or PAR (See p 71). These ramps can be mobile (in a rail) or fixed.

- ▶ Structures of steel profiles
- ▶ 2 possible rolling surfaces:
 - Anti-skid and self-cleaning galvanized serrated grating
 - Chequer plate sheet rolling surface
- ▶ Legs with adjusting screw and support plates
- ▶ Peripheral guardrails
- ▶ Bespoke construction

Access platform for external storage

An outdoor metal platform can be a real transshipment and storage hall closed with sectional doors with dock leveler, dock shelter, dock spotlight ...



Benefits of the product

In the absence of the loading dock or in addition of it, or to increase the storage surface, it is possible to use stationary or mobile metal loading tables.



Platform 8 x 8 m with covered structure + 2 loading docks (doors, levelers and dock shelters)



Customized transshipment platform integrating under an existing yard



Platform with stationary yard ramp, equipped with aluminium drawbridge levelers type 8860 and a covered structure

2.37. HEIGHT-ADJUSTABLE MOBILE LOADING TABLE

Benefits of the product

In case of extra temporary activity, of rented warehouses or if there is no loading dock (or as a complement of it) :

Mobile loading table can be used alone or in conjunction with a mobile ramp, its adjustable height allows to quickly adapt to all vehicles.



Economic solution without civil engineering



Aluminium drawbridge levelers type 8860

- ▶ Moving metal loading dock
Capacity 6000 kg (or more on demand)
- ▶ Anti-skid and self-cleaning galvanized serrated grating or chequer plate sheet rolling surface
- ▶ Removable side handrails, height 1100 mm with crash barriers on 2 sides
- ▶ 2 pairs of telescoping legs with crank, one equipped with pads and the other with wheels
- ▶ Foldaway swivel wheel equipped with a towing bar
- ▶ Removable access ladder with handrail
- ▶ 2 or 4 aluminium optional drawbridge levelers 600 x 1000 mm type PAR (see p 71) or type 8860 (see p 74) with continuous rail on one or two sides
- ▶ Adjustable height of the platform from 1000 to 1450 mm
- ▶ Standard dimensions : Length x Width 3000x3000, 4000x3000, 5000x3000, 3000x4300, 4000x4300, 5000x4300 mm



Access ladder



Telescopic leg with crank and casters



Operating mode

1. Once the truck is in place and immobilized about 30 cm from the mobile loading table
2. Adjust the legs height using cranks to adapt the height of the table to the height of the trailer
3. If the table has been moved, retract the swivel wheel
4. Lock the legs wheels if necessary
5. Lower the drawbridge levelers on the trailer
6. The transhipment can start safely



Tarpaulin cover over steel structure



Electrified mobile table on rails



Forklift pockets for moving the platform

Options:

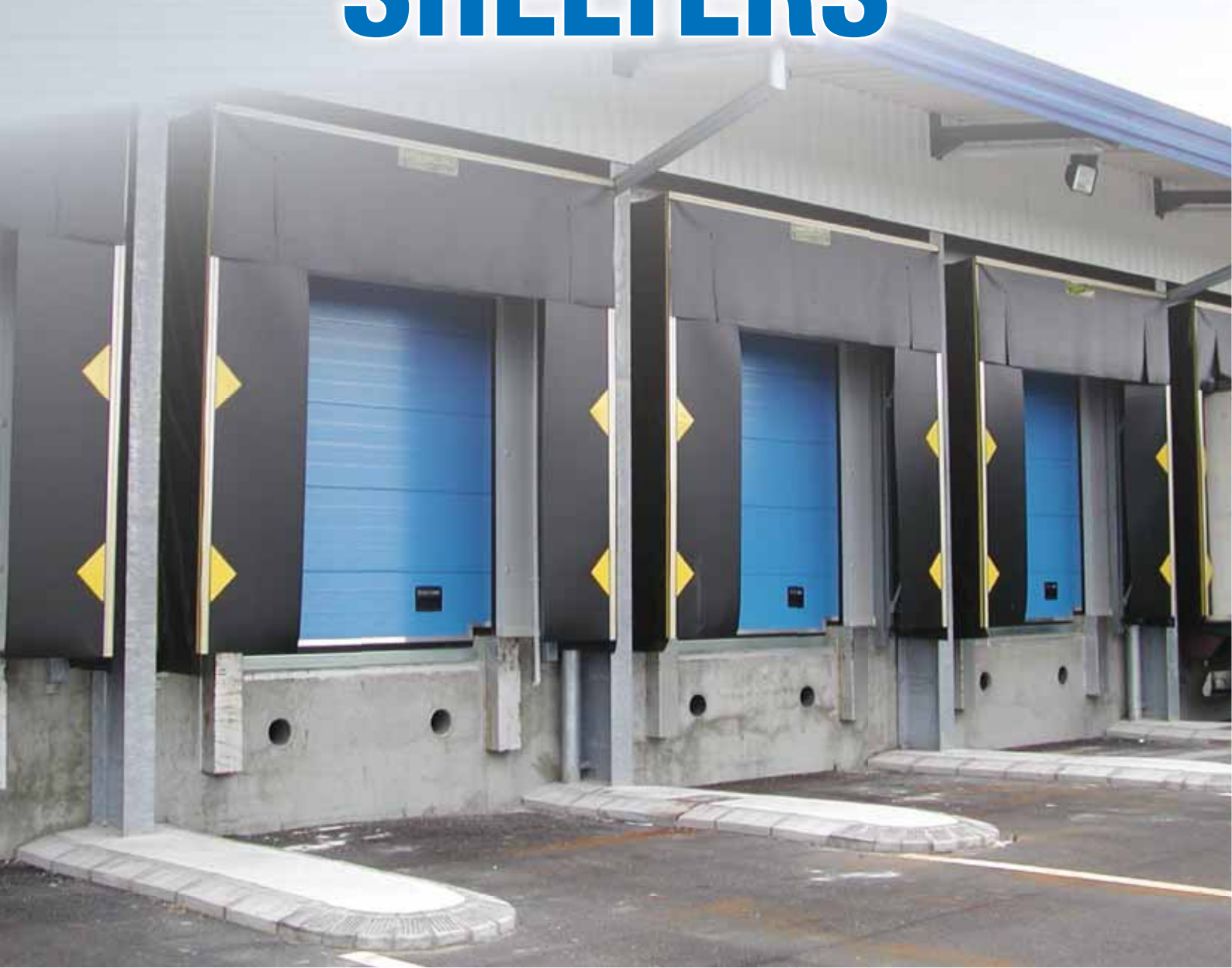
- Covered steel metal frame
- Docking device with traffic lights
- Rubber protection bumper Type BUDM3 (see p 111)
- Mobile table on rail (wheeled wagon type)
- Forklift pockets for forklift trucks
- Fixed side crash barriers for forklift trucks
- Electrification kit



Mobile table with rubber protection bumper
Ref. BUDM3



DOCK SHELTERS



2.38. FOAM DOCK SEAL



Tear resistance K/1 (S0505) : ≈ 500 N
 Resistant to traction (ISO283) : $\approx 4600/4000$ N/5 cm
 Temperature resistance (DIN 53361) : de -25°C à 80°C

Options:

- Scales thickness 1600 g/m^2 on side panels: they follow the upward and downward movements during the transshipment
- Height-adjustable horizontal top panel (up to 250 mm)
- Height-adjustable motorized top panel (up to 700 mm)



Benefits of the product

The foam dock seal is usually installed on doors of cold storage with controlled temperature

The vertical side panels may be covered with scales following the upward and downward movements of trucks during loading and unloading, that allows to make the cushions more resistant to tearing.

- ▶ **Quality robust elastic polyurethane foam cushions** (minimum density 30 kg/m^3), surrounded by their polyester fiber cover Trevira® with PVC cover on both sides that allow the truck to come directly into contact with the walls of the depot by compressing the cushions
- ▶ **1 horizontal panel and 2 vertical panels** (width 300 mm x Depth 300 mm)
- ▶ **Vertical panels (right/left)** : Foam cushion glued to a 40 mm treated wooden support covered by a protective canvas with scales
- ▶ Polyester fabric cushions cover fabric with self-extinguishing type double PVC coating, weight 750 gr/m^2 , fitted with anti-wear inserts welded to the side cushions, canvas thickness : 1600 g/m^2
- ▶ **Yellow guide strips** on side canvass for drivers
- ▶ **Side anodized aluminium profiles**

Model	KDC-F
Width	2900 mm
Height	3000 mm
Cushions width x depth	300 x 300 mm
Recommended mounting height	4200 mm

Standard dimensions to be adapted according to the dimensions of the bay.



2.39. RAISED DOCK SHELTER WITH SELF-SUPPORTING FRAME

KDRL model



Benefits of the product

The dock shelter ensures tight connection between the trailer of the truck and the warehouse wall.

It allows to minimize heat loss and protects personnel and goods from the weather during the loading and unloading operations of docking trailers.

- ▶ Retractable galvanized steel structure steel tube 60 x 30 x 2 mm
- ▶ Upper PVC curtain, bevelled corners
- ▶ Guide strips for drivers on side curtains
- ▶ Reinforced PVC side curtains
- ▶ Curtains : 2 thicknesses monofil polyester double side PVC coated (Upper curtain 2,7 kg/m², Side curtain 3,6 kg/m²)
- ▶ Antistatic material 100% rot-proof, non-staining
- ▶ Good resistance to acids, bases and salts (except concentrated sulfuric acid and saltpeter)
- ▶ Highly resistant curtains to UV and weathering
- ▶ Anthracite color RAL 7016



The dock front for receiving dock shelters must be perfectly flat and aligned. In addition, the weatherboarding must stop at 30 mm around the dock shelter. The installation of a frame is advised.

Tear resistance K/1 (ISO505) :

- Upper curtain: longitudinal \approx 750 N cross \approx 900 N

- Side curtains: longitudinal \approx 700 N cross \approx 900 N

Rupture strength (ISO283) : \approx 250 N/mm

Temperature range (DIN 53361) : from -30°C to 90°C



DSC-R model

The dock shelter DSC-R is composed of a metal frame formed by a front frame and rear galvanized steel. The frames are interconnected by means of articulated arms. This dock shelter is closed with an integral peripheral covering, the upper part is provided with a side outlet for rainwater. Side curtains are provided with a yellow guide strip to help drivers to dock.

- ▶ Retractable galvanized steel structure steel tube 70 x 35 x 2 mm
- ▶ Upper PVC curtain in 3 parts
- ▶ Guide strips for drivers on side curtains
- ▶ Reinforced PVC side curtains
- ▶ Curtains : The curtains of 3000 g/m² consist of polyester bi-component fibers, flexible layers in the longitudinal direction and rigid in the widthwise direction.
- ▶ Antistatic material 100% rot-proof, non-staining
- ▶ Good resistance to acids, bases and salts (except concentrated sulfuric acid and saltpeter)
- ▶ Highly resistant curtains to UV and weathering

Model	DSC-R	KDRL
Overall width	3400 mm	3400 mm
Overall height	3400 mm	3500 mm
Overall ground height ⁽¹⁾	600 mm	700 mm
Side curtains width	600 mm	700 mm
Upper curtain height	1000 mm	1000 mm
Depth	600 mm	650 mm
Maximum pressing-in ⁽²⁾	400 mm	400 mm

(1) Recommended installation height
 (2) For a pressing-in of 400 mm the dock shelter goes up of 130 mm



Tear resistance K/1 (ISO505) :
 - Upper curtain : longitudinal ≈ 750 N cross ≈ 900 N
 - Side curtain : longitudinal ≈ 700 N cross ≈ 900 N
 Rupture resistance (ISO283) : ≈ 250 N/mm
 Temperature resistance (DIN 53361) : from -30°C to 90°C



2.40. INFLATABLE DOCK SHELTER

Twin-turbine inflatable dock shelter Ref. SAG0600

Thanks to its two turbines, its galvanized protection stops and its side skirts in galvanized sheet, this new generation inflatable dock shelter combines efficiency, robustness and aesthetics.



- ▶ **High-strength PVC canvas**
- ▶ **Preassembled structure (roof and sides) galvanized tubes covered**
- ▶ **Pre-painted galvanized sheets thickness 0,8 mm**
- ▶ **Drain of rainwater on the sides of the dock shelter**
- ▶ **PVC high-strength airbags** protected by 3 front PVC high-strength curtains thickness 3 mm, protecting airbags against rain, wind and sun.
- ▶ **2 turbines with high flow and low pressure** not voluminous and judiciously placed to avoid possible shocks of the biggest vehicles (Inflate 5 to 6 sec)
- ▶ **Integrated elastic cords and counterweight for deflation**
- ▶ **The deflation allows to release the truck** after 10 seconds thanks to the complete retraction of the airbags behind the PVC canvas (no risk of tearing the dock shelter during the trucks docking)
- ▶ **Closure of the lower corners by inflatable corner cushion**
- ▶ **Galvanized protection stops**
- ▶ **"On / Off" switch**

Model	Overall width	Frame depth	Overall height	Overall ground height ⁽¹⁾	Min / max height of the vehicle	Minimal width of the vehicle	Falling from the front curtain
PS 550 (SAGO801)	3700 mm	815 mm	3600 mm	4800 mm	de 3350 à 4200 mm	2300 mm	1470 mm
PSH 550 (SAGO802)	3700 mm	815 mm	3600 mm	4800 mm	de 3350 à 4200 mm	2300 mm	1470 mm
SAG0600	3400 mm	800 mm	3500 mm	4700 mm	de 3500 à 4200 mm	2200 mm	1200 mm

(1) Recommended installation height



2.41. FLEXIBLE TRANSPARENT CURTAINS

Overlaps:

minimum overlap 1/3 often used for low-rise interior walls, medium overlap 2/3 (most cases), Total overlap : double strips overlap

Dimensions: 200 x thickness 2 mm (for pedestrians), 300 x thickness 3 mm (for motorized equipment), 400 x thickness 4 mm (intensive use)

Curtain specifications:

Tearing DIN 53515 : 50 N/mm - Sound attenuation >35 dB
Operating temperature from -15 ° C to + 50 ° C (rupture -35°C)
Resistance to UV, oxygen, ozone - Antistatic - Hydrophobic
Alimentary BgW and FDA, biological neutrality

SUSPENSION SYSTEMS

These flexible doors can be mounted either in the wall (against the support) or under the lintel (under the support).

Hook system - Ref. PTLT1

Quick snap and quick release of the transparent strips. Each strip curtain can be unhooked individually and partially (seasonal use). This flexible PVC strip curtains are attached to a bracket which is fixed on or under your support.

Fixed system - Economic model Ref. PTLT6

The transparent strips are attached (pinch) permanently between 2 flat irons
The flexible curtain is delivered in one or more sections ready to install and marked.

Sliding support on rail - Ref. PTLT3

Variant of the model PTLT6 mounted on mobile supports (bearings) and guided in a rail. It's allow to move the strip curtain in front of the opening or against the wall (in continuation). Fast and convenient when you want to clear the opening (check if you have the necessary space for the release of the flexible curtain). The flexible curtain is delivered in one or more sections ready to install and marked.

Articulated oscillating support - Ref. PTLT2

Recommended system for large heights, to better accompany the flexible curtain in the 2 directions (in/out). The strips are permanently attached to a tube which circularly rotates around its axis. Recommended system if the free opening height exceeds 4.5 m. The flexible curtain is delivered in one or more sections ready to install and marked.

Benefits of the product

Made of transparent flexible PVC strips, these flexible curtains allow to close any opening or passageway while maintaining the light, in improving the **thermal insulation**, the **protection against dust, splashing and noise**.

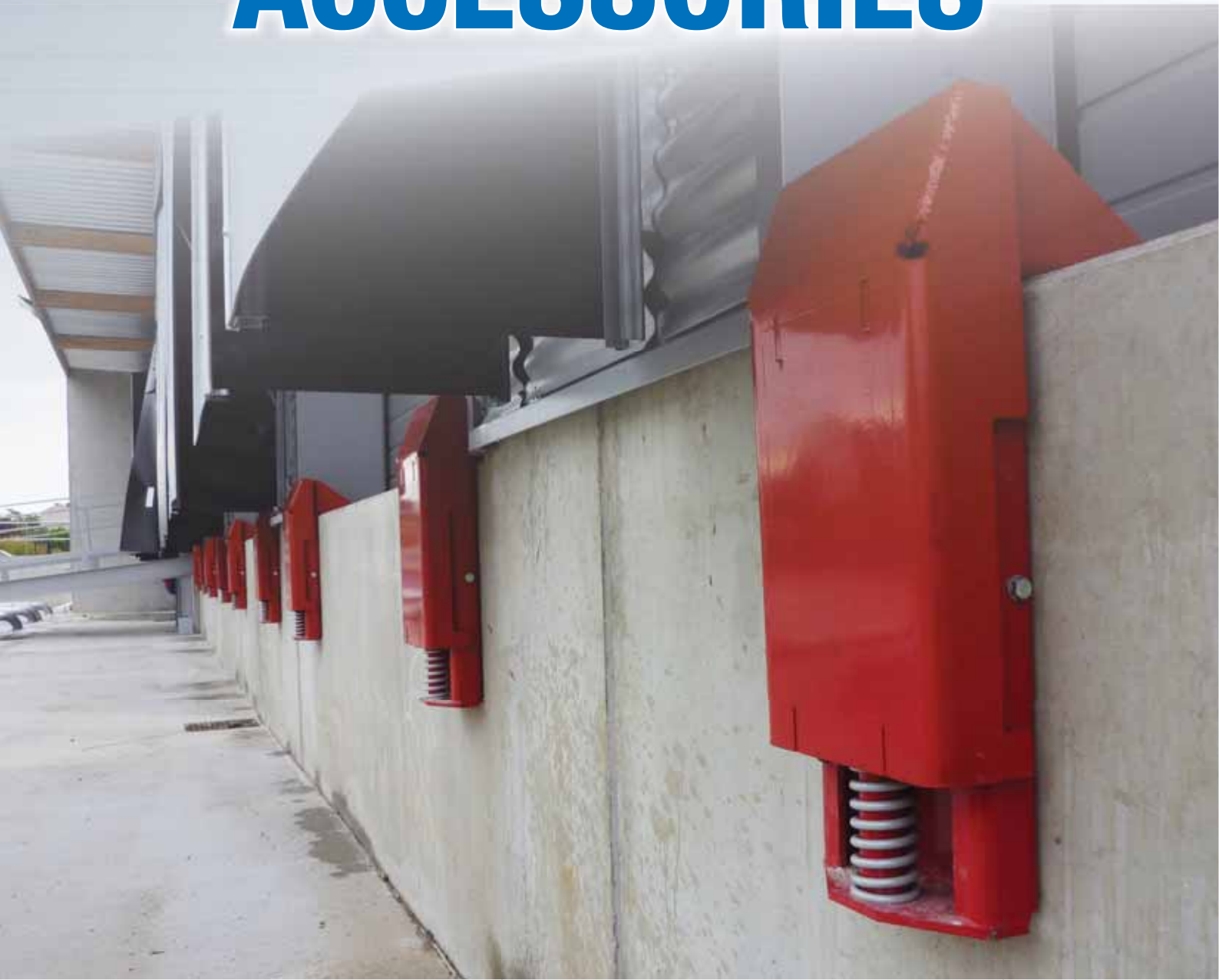
Options:

- Curtains "Extrem cold". Use from -25°C to +30°C
Rupture temperature -40°C
- Flame Retardant (M2) curtains: hardly flammable
Use from 0°C to +50°C (Rupture temperature -20°C)
- Curtains "Special welding": very high resistance to UV
- Gray or red opaque warning curtains
- Stainless steel brackets (PTLT1 model only)





DOCK ACCESSORIES



2.42. RUBBER BUMPERS

Dock bumpers - Ref. BUCC18 and BUCC13



Ref. BUCC18



Ref. BUCC13

- ▶ Molded Rubber
- ▶ Resistant to UV, salts, oils, fuel and ozone
- ▶ Fixing on concrete with dowels (not included)
- ▶ Models BUCC18, BUCC13 et BUCC20 delivery by pair (dowels not included)
- ▶ Model BUDM3 sold by the meter with dowels (included)

Rubber dock fender - Ref. BUDM3

Delivery with a steel plate to dowel (dowels included).



Ref. BUDM3



Ref. BUCC13

Bumpers - Ref. BUCC20

Delivery with a mounting plate to bolt which is placed inside the bumper in a slot provided for this purpose (dowels not included).



Ref. BUCC20

Model	BUDM3	BUCC20	BUCC13	BUCC18
Height	110 mm	116 mm	340 mm	450 mm
Length	by meter	500 mm	260 mm	250 mm
Depth	95 mm	70 mm	100 mm	105 mm
Weight	9,2 kg/m	10,34 kg*	13,10 kg*	21.40 kg*

(*) Weight of the pair



Ref. BUDM3



Ref. BUCC13

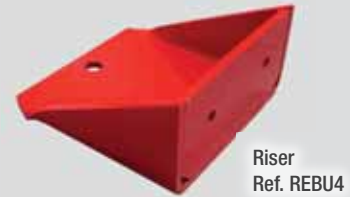
2.43. FIXED DOCK BUMPERS

Fixed bumpers to weld - Ref. BULA3/31/4/41



Options:

- Standard dock cap
280 x 200 mm ref. CABU8
- Dock bumper riser to bolt (to fixed on the edge above the dock) or to weld
H=100 mm ref. REBU4, H=150 mm ref. REBU13, H=200 mm ref. REBU17 and H=250 ref. REBU12 with a depth of 200 mm for all models



Fixed bumpers to weld and to bolt - Ref. BULA2/21 and fixed bumpers to bolt or to weld - Ref. BULA1/11



- ▶ Heavy duty steel bumpers (delivered by pairs)
- ▶ Metal bumper part to bolt and / or weld (dowels not included)
- ▶ The rubber pads (or block) can be replaced after wear
- ▶ Steel protective cover on the models BULA11, BULA21, BULA31, BULA32 and BULA41
- ▶ Standard finish : Epoxy powder coating

Model	BULA1	BULA11	BULA2	BULA21	BULA3	BULA31	BULA32	BULA4	BULA41
Useful height	500 mm	500 mm	400 mm	400 mm	400 mm	400 mm	400 mm	500 mm	500 mm
Total height	500 mm	553 mm	450 mm	450 mm	400 mm	450 mm	450 mm	500 mm	553 mm
Useful width	165 mm	200 mm	180 mm	200 mm	196 mm	178 mm	178 mm	180 mm	200 mm
Total width	270 mm	270 mm	250 mm	250 mm	230 mm	230 mm	230 mm	230 mm	230 mm
Thickness	100 mm	112 mm	108 mm	120 mm	108 mm	120 mm	120 mm	108 mm	120 mm
Steel cover	-	15 mm	-	15 mm	-	15 mm	30 mm	-	15 mm
Weight (the pair)	33 kg	67 kg	39 kg	64 kg	34 kg	58 kg	65 kg	44 kg	78 kg



BULA3 bumpers welded on external frame



BULA31 bumpers on mini leveler

2.44. STEEL SLIDING BUMPERS - REF. BUM0115



- ▶ Very strong construction
- ▶ Fixed base that can be installed on all types of loading docks (special dowels included)
- ▶ Mobile part equipped with rubber buffer pad (70 shore)
- ▶ Vertical range + or - 100 mm
- ▶ Very strong metal cover
- ▶ No maintenance, the inside rubber pad is never subjected to any damage
- ▶ Protected pressure spring, oversized, insensitive to climatic variations
- ▶ Standard finish : Epoxy powder coating (Other colors on request)

Model	BUM0115 and BUM01151
Height	535 mm
Total height	665 mm
Width	255 mm
Depth	118 mm
Weight (the pair)	91 kg



One standard bumper and one dock bumper with above dock fitment to ensure to stop multi height suspension trailers

Benefits of the product

Trucks equipped with pneumatic suspensions being more and more numerous, the fixed dock bumpers (traditional) can not longer resist to the pressure (vertical backward and forward movement) of the semi-trailers during transshipment operations. This causes a rapid deterioration of the rubber. Once the bumpers destroyed, it is the building that receives the shocks of the vehicles.

The solution : the sliding bumpers, it continuously follows the height differences of vehicles.

Options:

- Standard dock cap 280 x 200 mm ref. CABU8
- Dock bumper riser to bolt (to fixed on the edge above the dock) or to weld H=100 mm ref. REBU4, H=150 mm ref. REBU13, H=200 mm ref. REBU17 and H=250 ref. REBU12 with a depth of 200 mm for all models
- Hot dip galvanizing

Option: Levelled bumpers



Bumpers with the bumper riser option

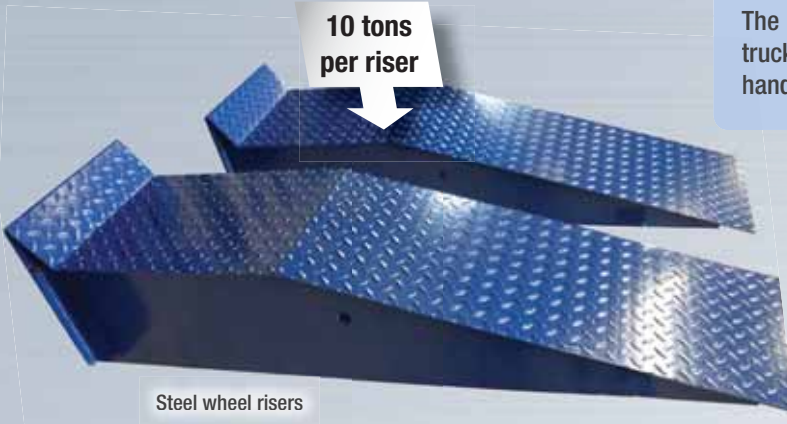
Bumper without riser



Bumpers with the bumper riser option

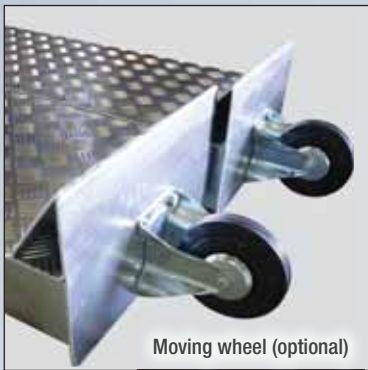
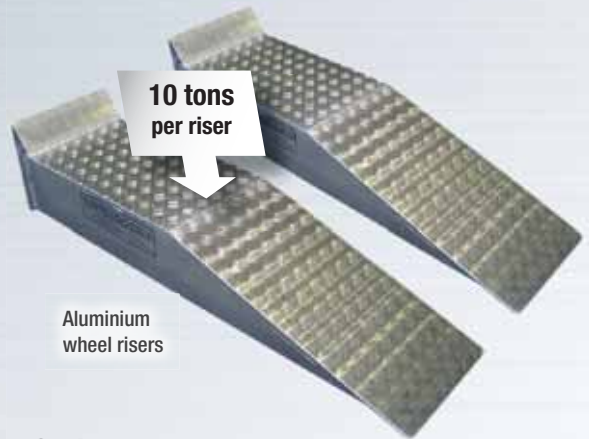
2.45. TRUCK WHEEL RISERS

Steel or Aluminium wheel risers - Type RH



Benefits of the product

The Espresso wheel risers (Sold by pair) are used when the truck is too low or when the slope becomes too high for handling equipment. Standard rear safety stop.



Options:

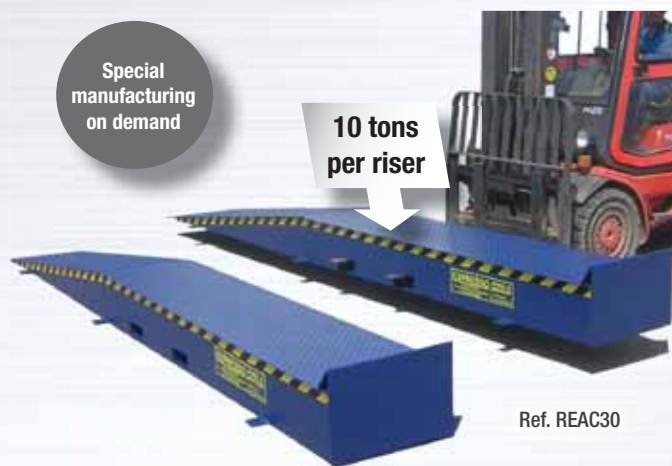
- Moving wheel with screws (one by riser)
- Tiller on wheels (to specify when ordering)
- Dowel tabs with dowels (to specify when ordering)

Model	Width	Length	Horizontal	Slope	Height	Capacity (the pair)	Aluminium riser weight	Aluminium riser weight
RH 15/400	400 mm	1560 mm	1070 mm	510 mm	150 mm	20 tons	2 x 23 kg	2 x 74 kg
RH 15/600	600 mm	1560 mm	1070 mm	510 mm	150 mm	20 tons	2 x 31 kg	2 x 98 kg
RH 20/400	400 mm	1560 mm	910 mm	680 mm	200 mm	20 tons	2 x 26 kg	2 x 86 kg
RH 20/600	600 mm	1560 mm	910 mm	680 mm	200 mm	20 tons	2 x 35 kg	2 x 112 kg
RH 25/400	400 mm	1560 mm	755 mm	835 mm	250 mm	20 tons	2 x 29 kg	2 x 95 kg
RH 25/600	600 mm	1560 mm	755 mm	835 mm	250 mm	20 tons	2 x 38 kg	2 x 123 kg
RH 30/400	400 mm	1560 mm	600 mm	1000 mm	300 mm	20 tons	2 x 32 kg	2 x 105 kg
RH 30/600	600 mm	1560 mm	600 mm	1000 mm	300 mm	20 tons	2 x 42 kg	2 x 136 kg

Other dimensions on request



Steel wheel riser with forklift pockets - Ref. REAC20/25/30



Perfectly equilibrated, these wheel risers are designed to be manipulated with a forklift truck.

This model is design with integrated forklift pockets (190 x 70 mm) enabling quick and easy installation of the risers with a forklift truck. Standard rear safety stop.

Model	REAC20	REAC25	REAC30
Capacity (the pair)	20 tons	20 tons	20 tons
Total length	4800 mm	4800 mm	4800 mm
Horizontal length	2600 mm	2600 mm	2600 mm
Slope length	2200 mm	2200 mm	2200 mm
Width	600 mm	600 mm	600 mm
Height	200 mm	250 mm	300 mm

Other dimensions on request

Wheel risers with retractable castors - Ref. RHM



Model	RHM/20	RHM/25	RHM/30	RHM/40
Capacity (the pair)	20 tons	20 tonnes	20 tonnes	20 tonnes
Total length	4800 mm	4800 mm	4800 mm	4800 mm
Horizontal length	2600 mm	2600 mm	2600 mm	2600 mm
Slope length	2200 mm	2200 mm	2200 mm	2200 mm
Width	600 mm	600 mm	600 mm	600 mm
Useful height	200 mm	250 mm	300 mm	400 mm

Other dimensions on request



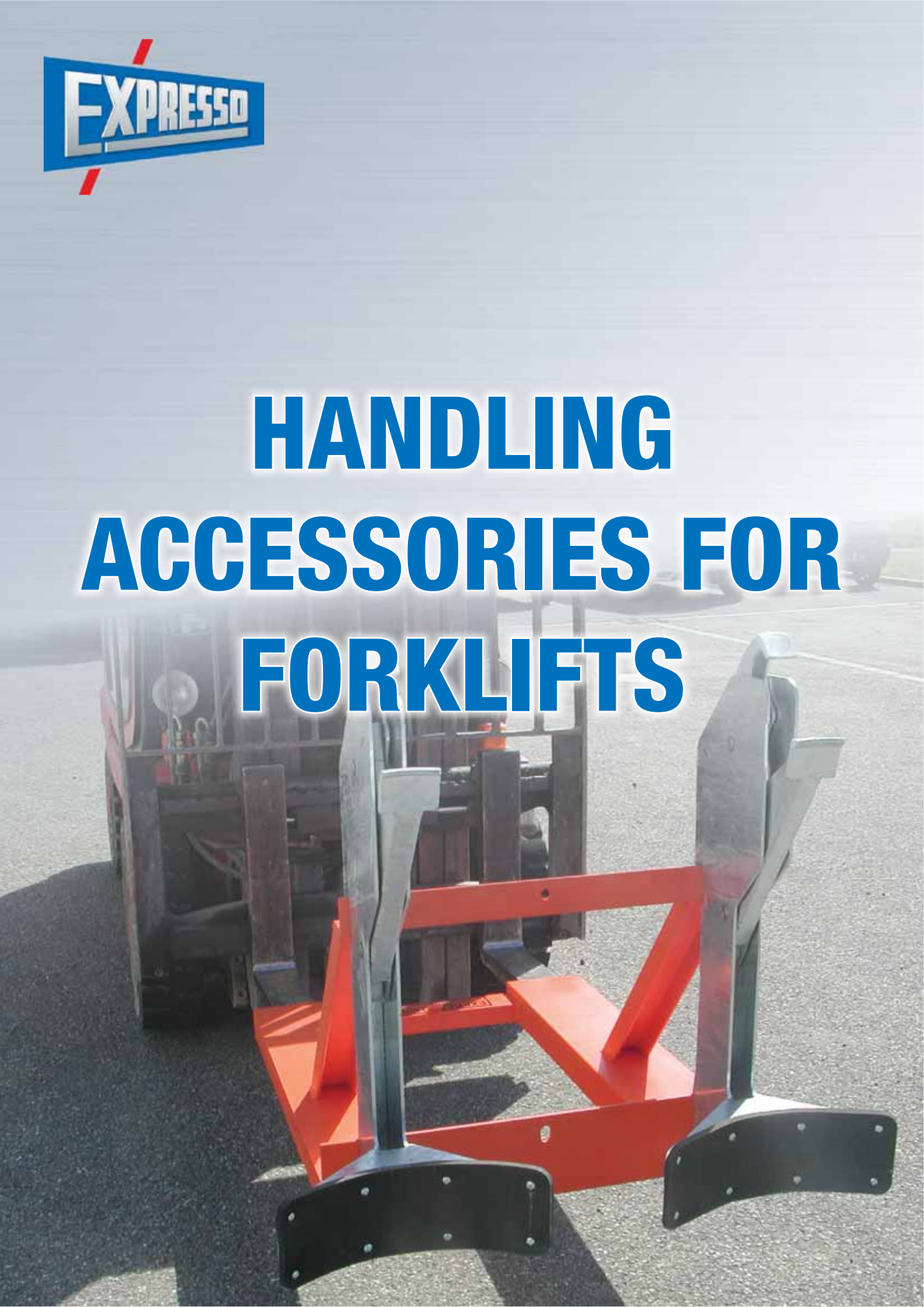
At rest, the retractable castors of the wheel risers are out. Then they are very easy to move with the tiller on wheels.

When in use, their castors are retracted and no longer touch the ground.





HANDLING ACCESSORIES FOR FORKLIFTS



3.42. COIL BOOM FOR FORKLIFT TRUCKS

Coil boom

- ▶ Designed for the handling of heavy carpet rolls , rolled rugs, hoses, etc ...
- ▶ Seamless assembled (special steel)
- ▶ Quick setting up on the forks of a forklift truck



Fork Mounted coil boom Type EPER25 with chain and lashing hook



Carriage Mounted coil boom Type EP/T

Model	Useful length	Diameter	Center of gravity	Weight	Capacity
EPER 25	2700 mm	60 mm	1020 mm	180 kg	500 kg
EP/T/25	2500 mm	70 mm	820 mm	122 kg	500 kg
EP/T/28	2800 mm	70 mm	880 mm	131 kg	500 kg
EP/T/30	3000 mm	70 mm	915 mm	138 kg	500 kg
EP/T/32	3200 mm	70 mm	950 mm	144 kg	500 kg
EP/T/35	3500 mm	70 mm	990 mm	153 kg	500 kg

Forks Extensions

- ▶ Length 1200 to 2400 mm (on request)
- ▶ Forks = 60 % of the fork extension
- ▶ Open or closed profile
- ▶ Lacquered finish: orange RAL 2000

Details to specify when ordering:

- Extension desired length
- Fork length
- Fork section
- Forklift truck capacity



Forks Extensions Type GO - "U" Open profile



Forks Extensions Type GG - Closed folded sheet, lock and stop by bolt



3.43. MIXED DRUM GRABBER FOR FORKLIFT TRUCK

- ▶ Plastic drums handling (L-Ring)
- ▶ Metal drums handling (full opening)
- ▶ Galvanized drum grabbers
- ▶ The frame has two forklift pockets
- ▶ Automatic grip the drums
- ▶ Curved bases with rubber protection
- ▶ Universal frame allowing the attachment of different models of drum grabber (from 1 to 2 grabs), orange finish
- ▶ Safety chain with hook



Model	C1PM (mixed)	C2PM (mixed)	C1NM (metal drums)	C2NM (fûts métalliques)
Number of grabs	1	2	1	2
Overall height	850 mm	850 mm	850 mm	850 mm
Overall width	780 mm	870 mm	780 mm	945 mm
Overall length	1230 mm	1230 mm	1230 mm	1230 mm
Capacity (by grab)	500 kg	500 kg	500 kg	500 kg



3.44. DRUM GRABBER FOR METAL DRUMS FOR FORKLIFT TRUCK

- ▶ Metal drums handling
- ▶ Robust mechanism : Cadmium-plated steel mechanism
- ▶ Always effective for a very fast handling
- ▶ The gripping safety is ensured even on uneven ground
- ▶ Permanent gripping independent of the weight of the drums (this allows handling of empty drums)
- ▶ Safety chain with hook

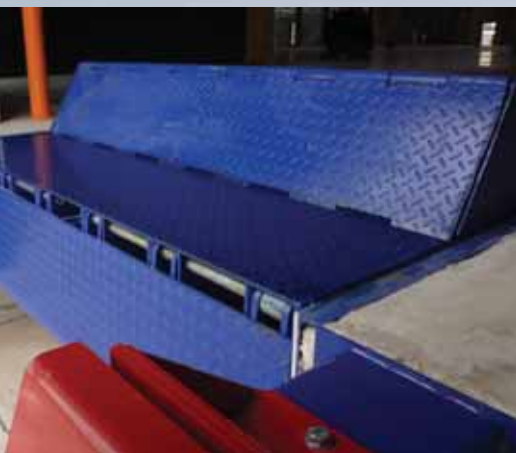


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