



## VEHICLE RESTRAINTS

- ▶ Stop Trucks® Automatic wheel blocking
- ▶ Manual blocking system for trucks



**EXPRESSO France SAS**

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## 1.9. STOP TRUCKS® - AUTOMATIC WHEEL BLOCKING



**BLOCKED TRUCK =  
SECURE TRANSSHIPMENT**

**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.

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.



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<sup>(1)</sup>** : 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<sup>(2)</sup>**
- ▶ **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



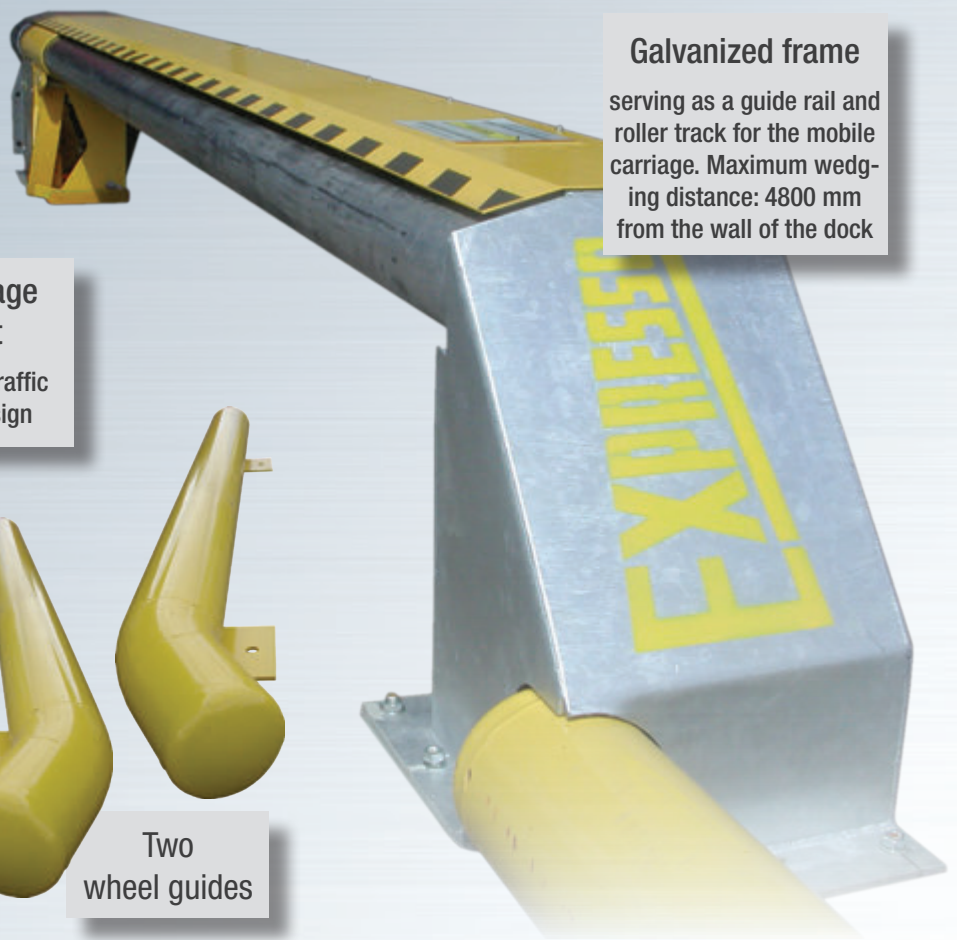
**Outside signage equipment**  
with bi-coloured traffic lights and road sign



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

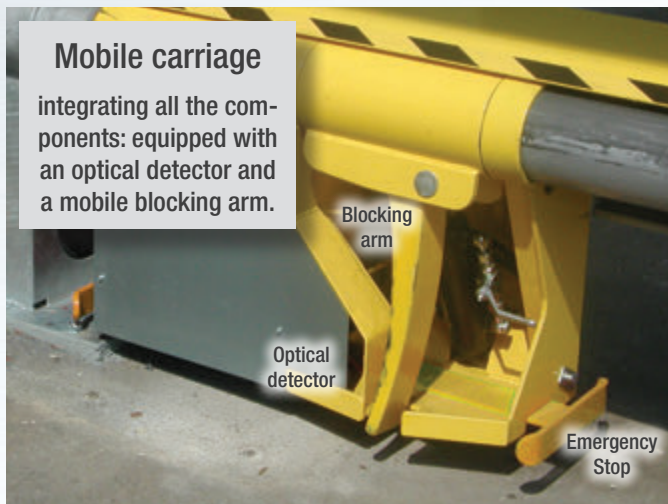


Two  
wheel guides



**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

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

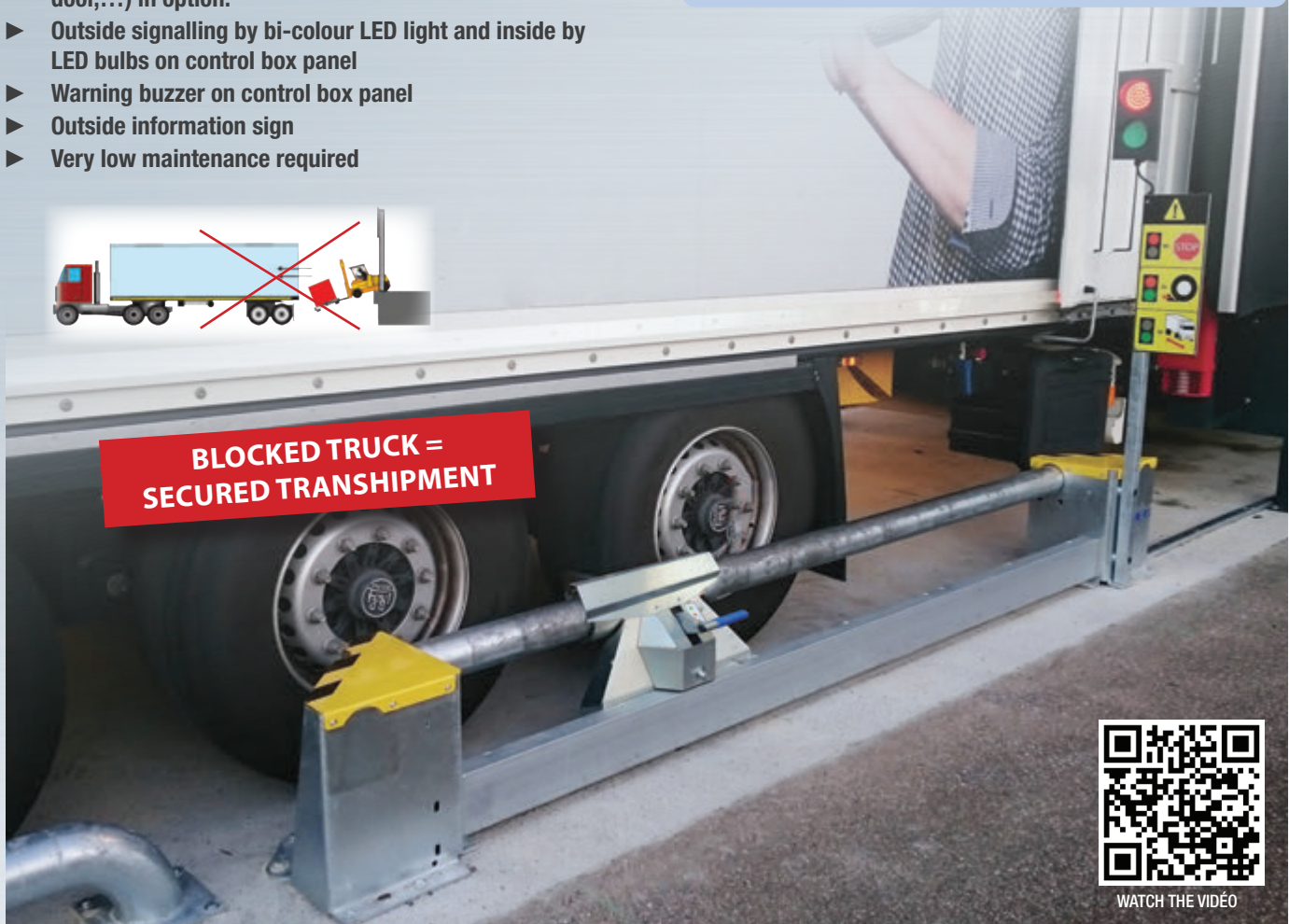
### Benefits of the product

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**

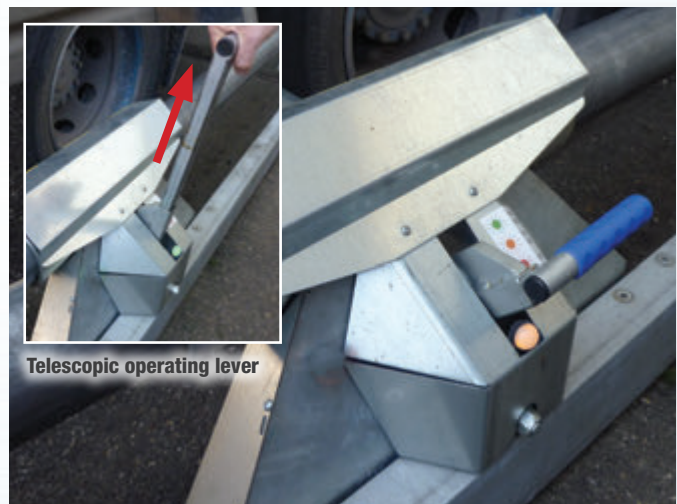


WATCH THE VIDÉO

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



# EXPRESSO France since 1959



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