

BALTIC



Machine Description

This Industrial Vehicles washing unit is made of a steel gantry structure, moving on tracks fixed to the ground, washing with three brushes (two vertical, one horizontal brush) sprinkling water, detergent and, optionally, finishing chemicals.

The control panel is on board. There's no pneumatic control.

Baltic includes few versions:

Baltic "standard" - Baltic Overlapping – Baltic Total High Pressure – Baltic Side H.P.



Baltic "standard"





Baltic H.P. with Overlapping



Baltic Total High Pressure

Main Characteristics

Brushes Bristles

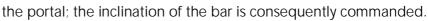
- The brushes bristles are fixed with stainless steel screws and are easily replaceable
- Colours available are: black-blue, rainbow, light green-dark green, light blue-dark blue

Horizontal High Pressure Arch

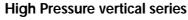
The horizontal high pressure arch performs touch less wash action, keeping an optimal distance from the vehicle's surface, being equipped with specific sensors. The nozzles are placed on a rotating bar. It can turn and position the nozzles towards the vertical surfaces in the front/rear end of the truck or towards other vertical surfaces present on the truck (e.g. at the end of the driving cockpit). The electronics and sensors



equipping the plant can detect the increase/decrease of the shape's height during the movement of



The sprinklers themselves are rotating; they're made to clean with the same impact as the normal sprinklers, but they have the plus of creating a cone 20° or 26° wide, which allows a total coverage of the surface to be washed.



The side bars equipped with nozzles can wash the sides of the vehicle.

The impact is able to guarantee a very effective removal action.



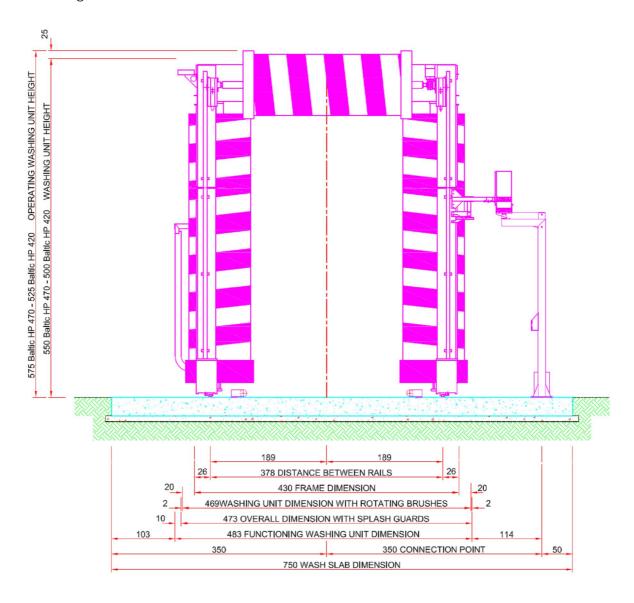
- Cooling Water sprinkling
- Detergent sprinkling
- Rinse Water sprinkling
- Chemicals tanks of 25 litres
- Water supply with 3 external pump (basic version), one of 3 kW for the cooling and soak action, three of 7.5 kW for the water sprinkling at high pressure, up to 70 bar (ALT. 1 pump of 37.5 kW for a water pressure up to 30 bar)
- Supply hoses are supported by a cable supporting rod

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Dimensions

Max.	width	2,7 m	
Мах.	height	4,2 m	(ALT 4,7 m
Мах.	length	12 m	(ALT 18 m

During the wash phase, protrusions longer than 600 mm will be overcome automatically. The gantry is furthermore equipped with a special program in order to avoid the external rear mirrors damage.



Main Characteristics

The unit is made of:

- Galvanised 12/10 steel structure, optionally painted
- Stainless steel in-sight screws
- Closing doors in pre-galvanised 15/10 iron
 - In the columns you can find all the spaces for the electric panel and the hydraulic equipment, including also the chemicals reservoirs
 - In one column you can find the horizontal brush moving devices as well as the horizontal high pressure arch moving devices
 - The closing doors have an IP55 protection degree
- Translation allowed by motors equipped with Inverter for a better control and movement
- Overturning-proof device

Rails

- Section rails for a heavy duty performance
- Safety stop devices at the ends

Brushes

- Horizontal Brush electrically moved, with pressure control on the vehicle through power absorption devices;
 - The horizontal brush moves on galvanised steel tracks, fixed on the side columns and directly attached to the motor;
 - Steel chain support the horizontal brush allowing its suspension and positioning movement
 - The horizontal brush motor is a self breaking type
 - The rotation is inverted during the back movement of the portal
- Vertical Brushes on moving trolleys with controlled opening movement, and pressure control on the vehicle through multi-thresholds power devices
 - Vertical brushes close driven by on purpose motors / Vertical Brushes close by gravity
 - Safety proximity sensors
 - Each trolley is fitted with a rotation motor that is attached to the brush, which is allowed to move according to the vehicle shape
 - The rotation is inverted during the back movement of the portal

Brushes Bristles

- The brushes bristles are fixed with stainless steel screws and are easily replaceable
- Colours available are: black-blue, rainbow, light green-dark green, light blue-dark blue

Hydraulic Equipment

- Cooling Water sprinkling
- Detergent sprinkling
- Rinse Water sprinkling
- Chemicals tanks of 25 litres
- Water supply with 1 external pump (basic version) of 3 kW for the cooling and soak action
- Supply hoses are supported by a cable supporting rod / Supply hoses are supported by a specific caterpillar



Push Buttons

The Push buttons are on a dedicated structure equipped with

- Key selector
- Programs switches
 - Start Push Button
 - Vertical and Horizontal brushes opening switches
 - Stop Push Button
 - Emergency Stop

Control Panel

The Electrical Panel, connected to a PLC is water proof

Ancillary circuits are supplied at 24V

Electrical door lock

Motors are equipped with safety magneto-thermal switches

Uniop

Device for diagnostic and cycles programming





Technical Characteristics

Unit dimensions and weight (STANDARD 4,2 mt height dimension)

Portal speed		_6 / 12 m/min
	Supply cable (400V)	_5x2.5 sq. mm
	Standard supply	_400 ± 10% V - 50 Hz
	Water pressure	. 2.5 - 3.5 bar
	Water inlet	_R 1 1/2"
Conr	nections	
	Length	_18 m
	Gauge	_3780 mm
Rails		
	Weight	_1 680 Kg
	Height	
	Length	_2 800 mm
	Width	_4 600 mm

Total power supply required ______10.4 kW

MOTORS

Action	Quantity	Power	
		(kW)	
Transfer	2	0.37	
Horizontal brush rotation	1	0.75	
Vertical brush rotation	2	0.75	
Horizontal brush movement	1	0.37	
Trolleys opening	1	0.37	

Available Optional

• On board side splash shields



Splash guards

- Pump and arch for self drying chemical
- Automatic Winter Discharge
 - Activated by thermostat
 - Water supply stop and air blowing in the pipes
 - Brushes quick rotation for self drying

Traffic light

Two lights traffic light with movable supports. It could be installed on board or on columns.



Under Chassis

Different types of Under chassis and High Pressure side wash are available.







Robowash

On Board High Pressure washing system for wheel and lower truck body device.



• Wheel guides

- Big thickness (90 mm)
- First module 5,5 m; Intermediate module 5 m



· Self service cards reader

- To activate the wash plant in *self service* mode
- Equipped with key selector

• Single post cable support

- To support hydraulic and electric connections up to 18 m.
- Made in hot zinc coated steel
- Columns made of two pieces for an easy transport
- Fixed to the ground with steel *Fischer* or with counter plates

• Triple cable support moving on guide

- To support hydraulic and electric connections up to 26 m.
- Made in hot zinc coated steel
- Columns made of two pieces for an easy transport
- Fixed to the ground with steel *Fischer* or with counter plates

Wall Cable support

Caterpillar

Installation on columns, to the wall, or on the ground



Programs

