

# STARTRUCK





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# Catalogue

# STARTRUCK

#### STARTRUCK TECHNICAL FEATURES

Supporting structure in tubulars and hot-dip galvanized steel, consisting of four columns in the lower part at the bottom of the roll-over, and connected into the upper part by beams, on which is fixed the group that bears the vertical brushes trolleys.

Cabinet for the electrical board, and cabinet for hydro-pneumatic groups and chemical products, realized in glass fiber with modern and functional design.

Water-proof gearboxes, in special anti-corrosion allay.

Wide programming possibilities in order to wash automotically: trucks, buses, vans, cars, with possibility of specific management of various type of mirrors, spoilers, platforms with side banks, trailers, backs, rear hydraulic platforms, etc..

Front and rear double brushes overlapping.

Supplying till four different chemical products.

Color display screen 7" for the total management of the programs and settings, with shatterproof buttons for a simple and quick programs selection.

#### Cutting-edge technology for a lasting success and reliability.

#### DATA SHEET

Technical data

Machine dimensions (mm)

Washing heigh	4.200	4.600
Machine heigth	5.200 (4870*)	5.600 (5270*)
Machine width		5.000
Washing width	3.500	
Machine depth	2.900	
Machine weight (kg)	2.250	
Distance between the rails	3.800 [3.700 o 3.900 o 4.000 upon demand]	
Rolls length	18.000 [26.000 optional]	
With horizontal brush at rest		

Hz

High flow medium pressure (optional)

Data are just overage and indicative

#### Structure

- Hot-dip galvanized steel frame
- Roll-over direct drive, through inverter
- Stainless steel fasteners

#### Vertical Brushes

- Four-beam guide in hot-dip galvanized steel
   Power electronic control
- Electrical moving through toothed belt
- Front and rear double brushes overlapping
- Sofety devices for excess brushes pressure

#### Horizontal brush

- Electric lifting through inverter
- Power electronic control
- Guides in hot-dip galvanized steel
   Double lifting belt with safety sensors

#### Medium pressure and high flow pre-wash

Lower side medium pressure [optional]

with numeric key-pad and color display

- Side medium pressure (optional)
- Side medium pressure with rotating heads (optional)

#### Standard features

- Hydraulic circuit with electro-valves and dedicated ramps
- Shampoo dosing pump
   Control terminal in wall bax

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#### The power of technology

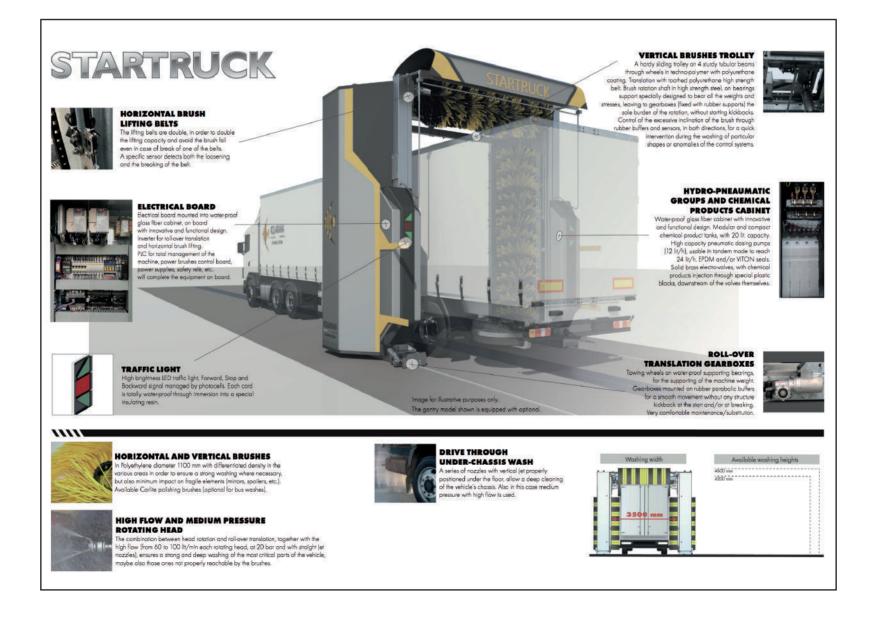
# STARTRUCK







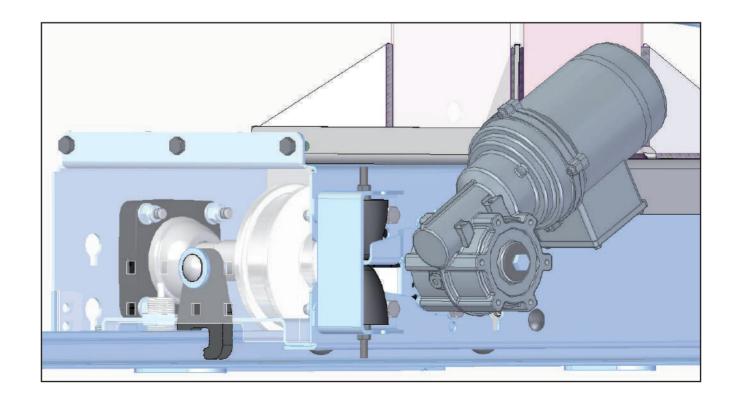
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#### **ROLL-OVER TOWING**

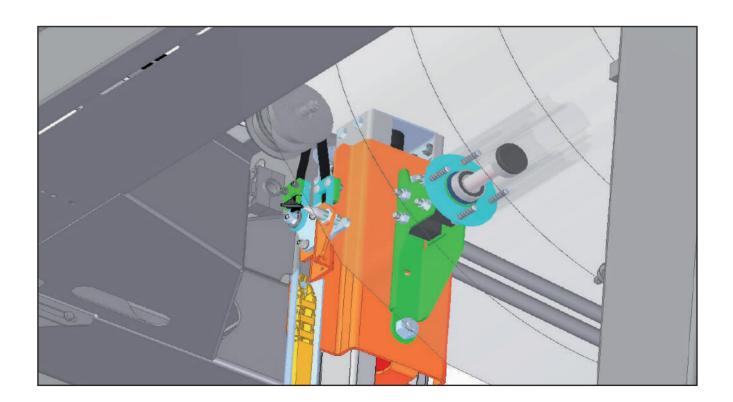
- Towing wheels on water-proof supporting bearings with additional seals
- Water-proof gearboxes in special anti-corrosion alloy
- Gearboxes fixed on rubber parabolic buffers
- Fluid movement without kickbacks for the general structure at starting and / or at braking
- Simplified maintenance / replacement
- Inverter





#### HORIZONTAL BRUSH LIFTING BELTS

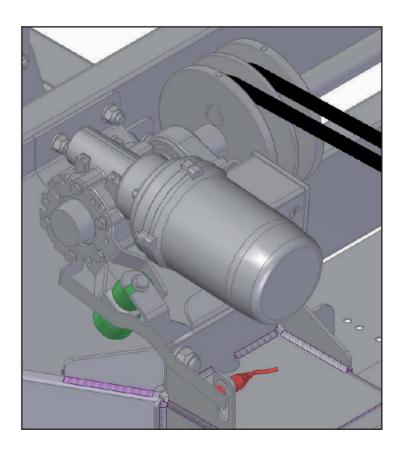
- Double lifting belts
- Double lifting capacity
- Safety against brush fall, even in case of a belt breakage Detecting, loosening and belt breaking sensor





#### HORIZONTAL BRUSH LIFTING GEARBOX

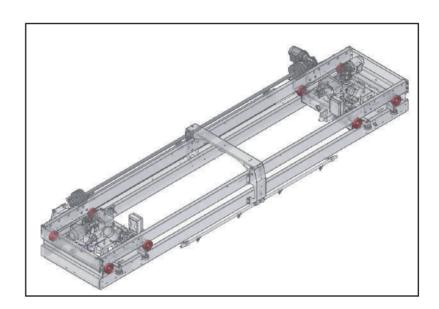
- Water-proof gearboxes in special anti-corrosion alloy with IP65 parking brake
- Gearboxes fixed on rubber parabolic buffers
  Fluid movement without kickbacks
- Safety in case of hooking of the horizontal brush under the side banks, refrigerators, etc.
- Inverter

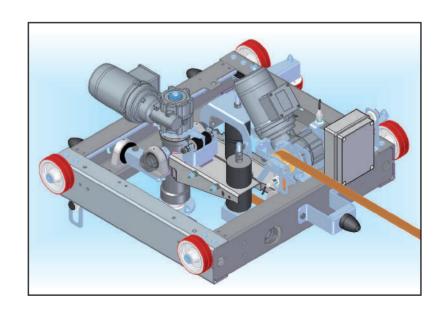




#### **VERTICAL BRUSHES TROLLEY**

- Sliding trolley on 4 strong tubular beams.
- Techno-polymer wheels with polyurethane coating
- Toothed belt in high T32 polyurethane resistance
- High resistance brush shaft,
- Bearings support to bear weights and stresses
- Gearboxes, in special anti-corrosion alloy
- Gearbox for rotation only, with rubber supports, no kickbacks at starting
- Control of the excessive lateral inclination of the brush using rubber buffers and sensors
- Control of the excessive front / back inclination of the brush using rubber buffers and sensors
- Back and front brushes overlapping
- Frontal brush overlapping with 1 or 2 brushes







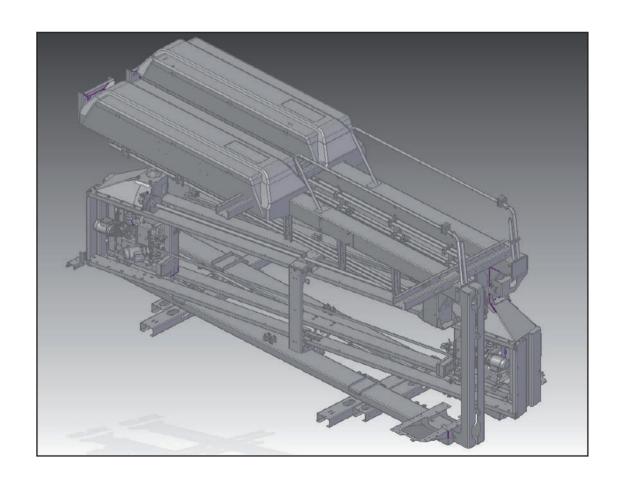
#### **BRUSHES**

- Large diameter brushes 1100 mm
- Speed of the power relief sensitivity and related control
- Available CarLite ® brushes (optional for bus washes)
- New rotation directions
- New brush control concepts.
- Back and front brushes overlapping
- Frontal brush overlapping with 1 or 2 brushes



# **TRANSPORT**

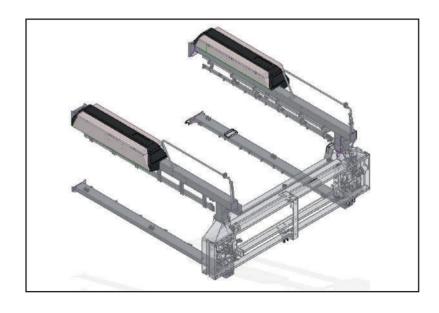
- Monoblock completely assembled and wired Transport on standard truck Container transport kit

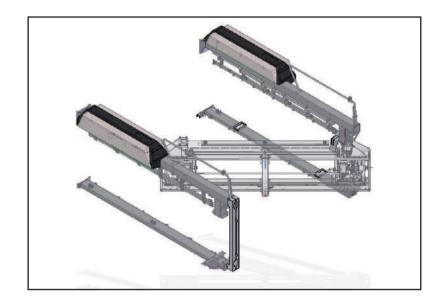




# **INSTALLATION**

- Opening at installation
  Wiring already performed
  Vertical and horizontal brushes to be fixed on site

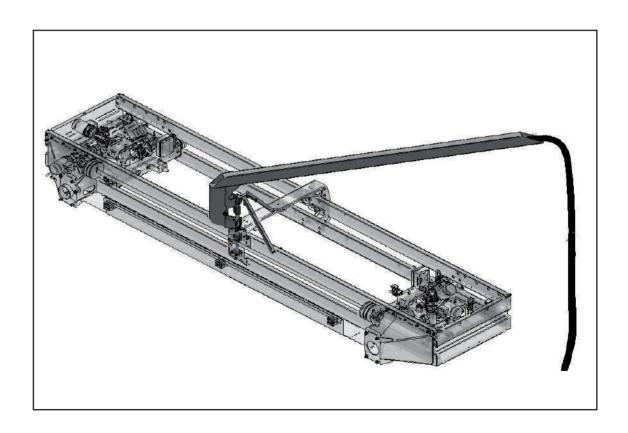






## MOBILE ARM FOR MACHINE SUPPLY

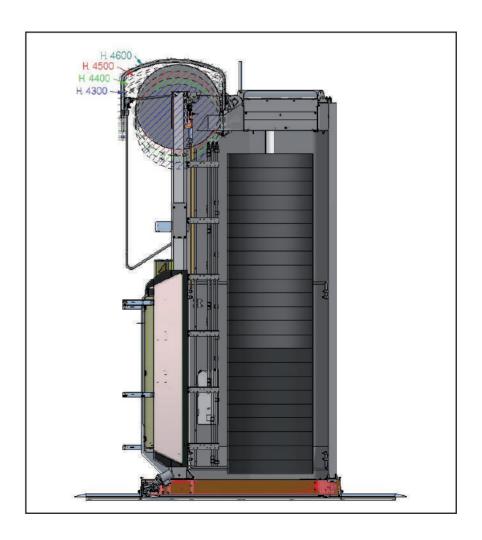
- Simple solution
- Single object for both supplying sides
  Currently NOT available for medium pressure





## HEIGTH ADAPTATION FOR CLOSED BAYS

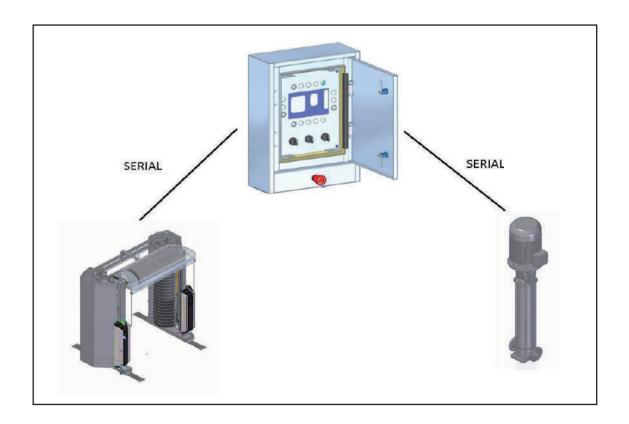
- 4 upper positions for horizontal brush 4 washing heights: 4600 4500 4400 4300 Adjustable upper splash guard





## **ELECTRIC STRUCTURE**

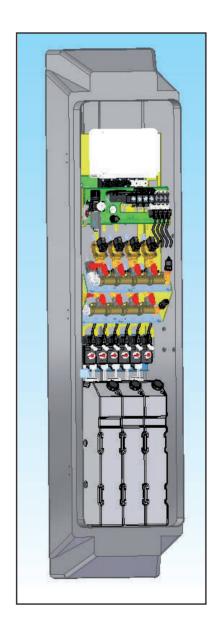
- Control panel on the ground outside the bay, operator safety
- Serial communication between roll-over and control panel, and between control panel and technical room
- Quick and safe wiring





## **VALVES AND PRODUCTS CABINET**

- Cabinet for hydro-pneumatic groups and chemical products in glass fiber with modern and functional design
- No corrosion
- Chemical injection in plastic block.
- Pneumatic dosing pumps 6 and 12 [l / h] up to 24 [l / h] each product (with 2 pumps)
- EPDM seals for alkaline, VITON for acids
- 20-liter modular tanks [l]





#### CONCEPT

- Medium pressure 20 [bar]
- High flow rate from 270 to 540 [I / min]
- Large diameter nozzles
- Dirt removal based on impact of the liquid and not on pressure
- Much efficacy even at a greater distance from the jet

#### **UNDERBODY**

- Underbody at passage at the beginning of the bay
- Medium pressure and high flow
- Same pumps of the roll-over medium pressure
- Photocell activation

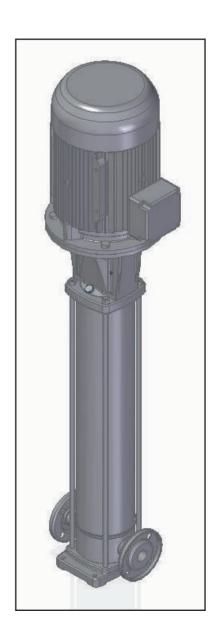
#### MEDIUM PRESSURE

- Pneumatic MP valve groups on board (if necessary)
- Side MP pre-wash
- Intensive MP pre-wash, low part
- Fixed upper MP pre-wash
- Possibility, by program, of MP exclusion on delicate parts of the vehicle



## MEDIUM PRESSURE PUMPS

- Vertical multistage centrifugal pump
  Seals subjected to no particular wear
  Low water quality required
  Currently pump of 15 [kW] of 270 [l / min] usable single or in tandem

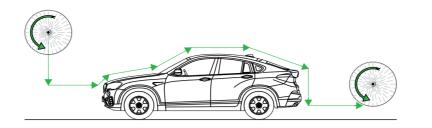


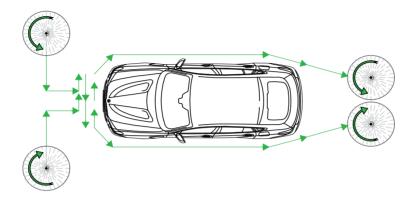


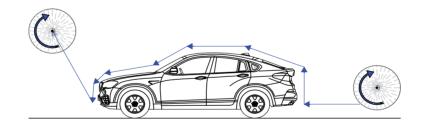
#### MEDIUM PRESSURE ROTATING HEAD

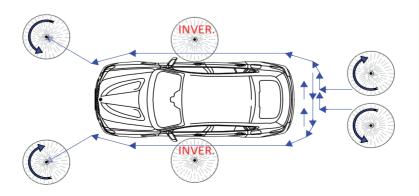
- Reaction rotating head with hydraulic brake Low pressure losses even at high flow rates 2 each side for side MP prewash 1 each side for intensive MP prewash, low part 2 each side for upper fixed MP prewash

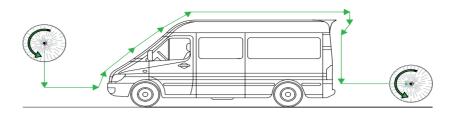


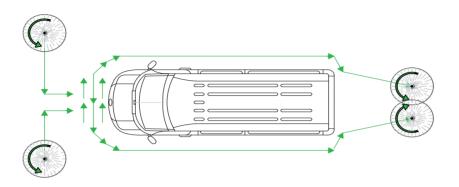


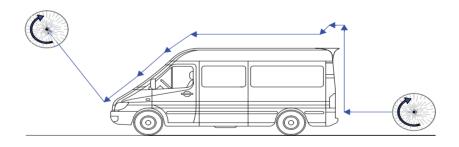


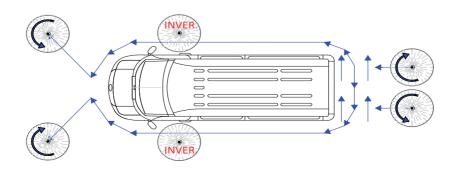


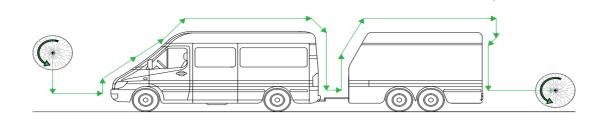


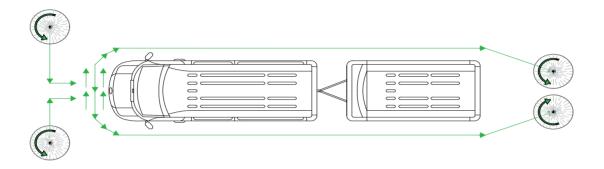


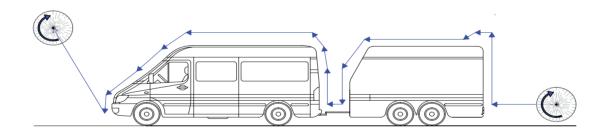


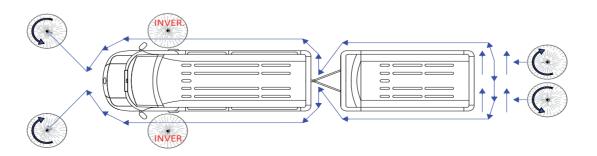


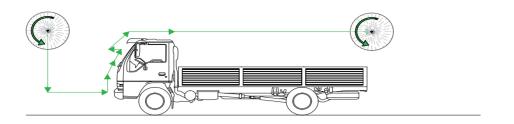


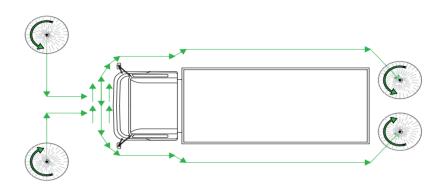


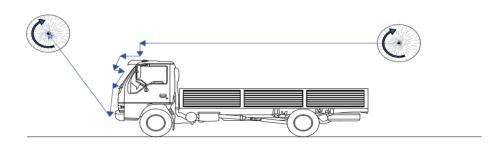


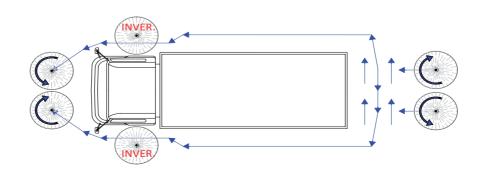


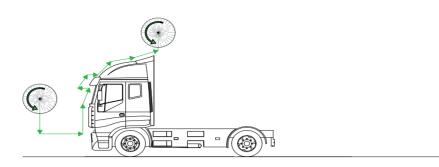


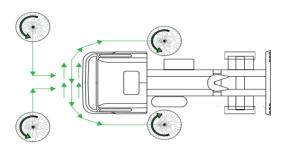


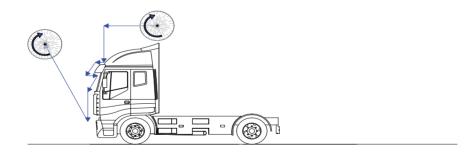


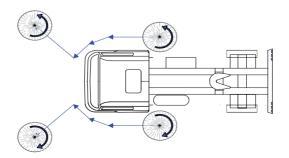


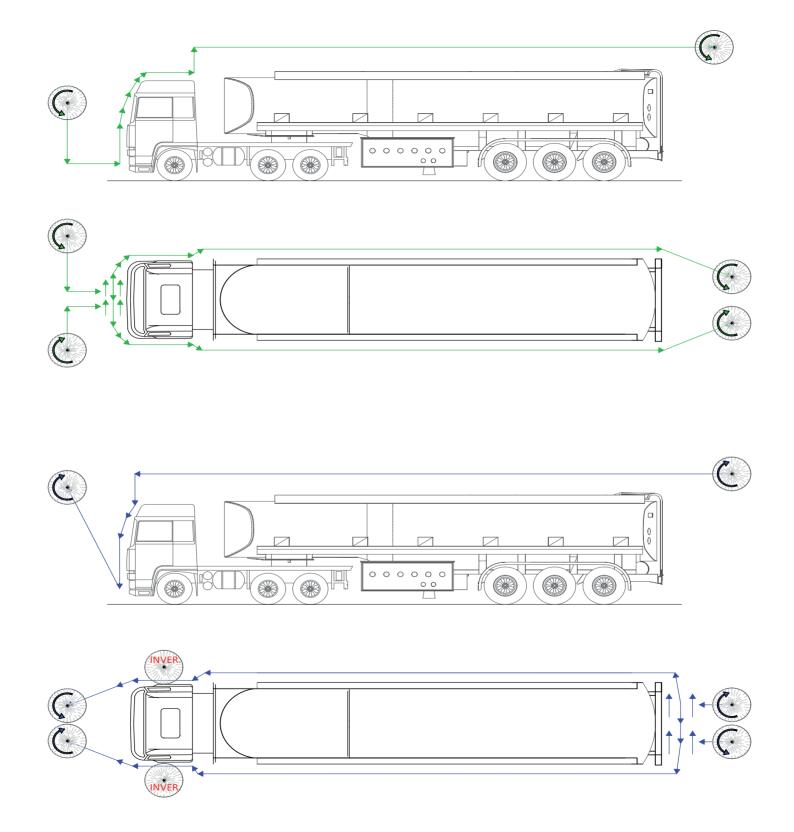


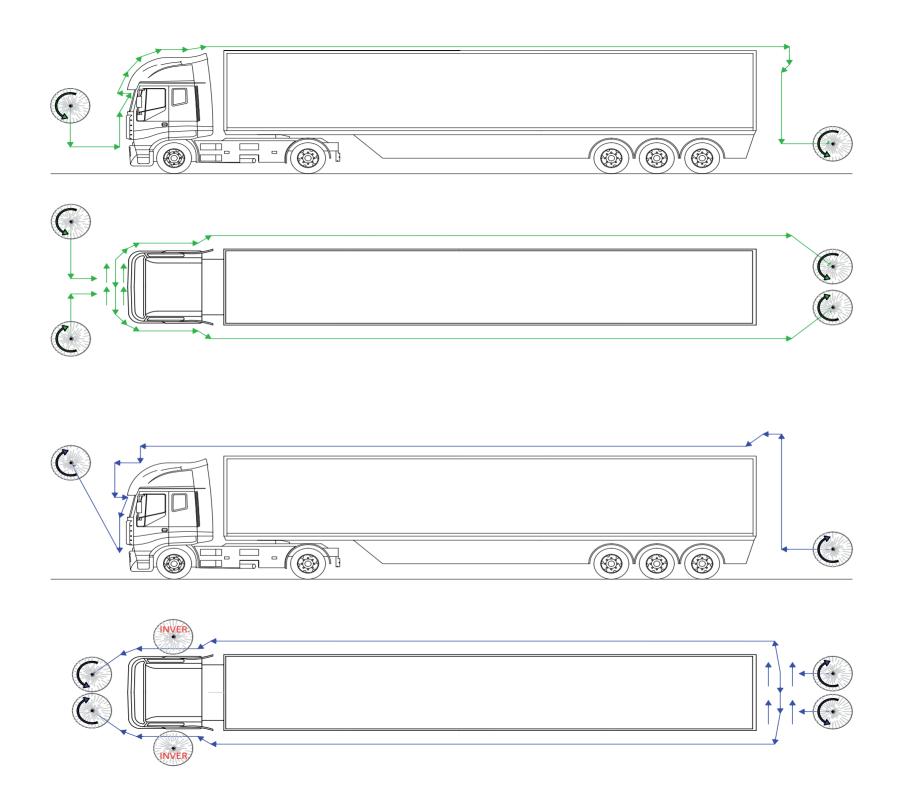


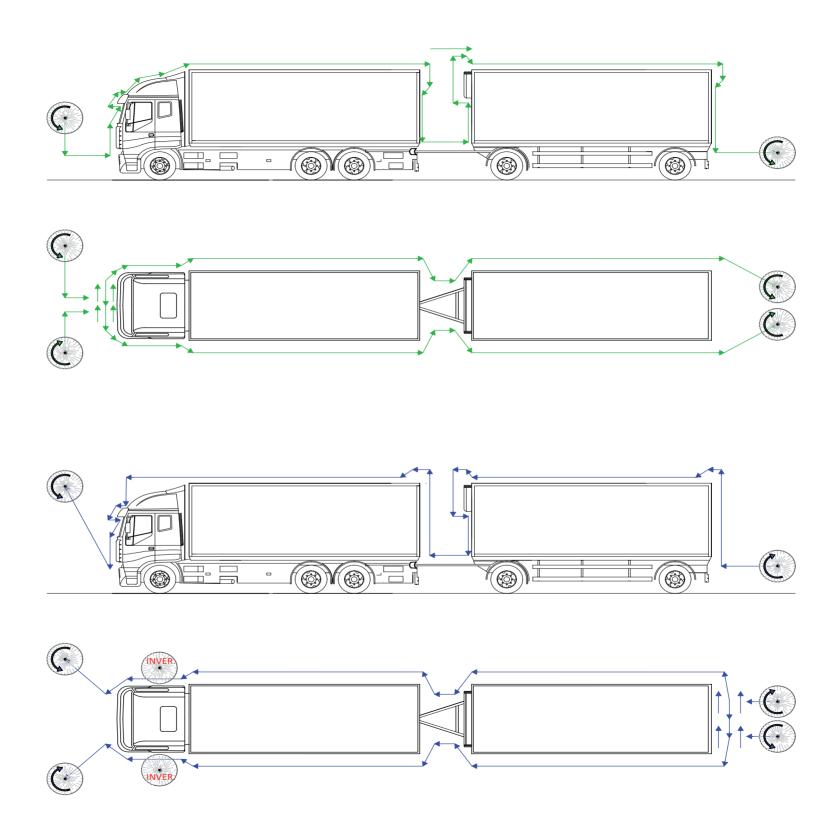


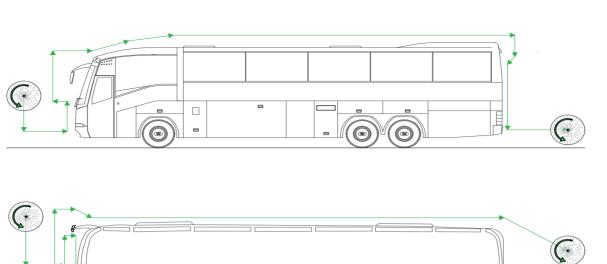


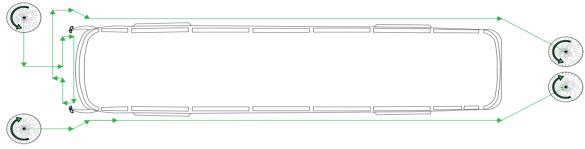


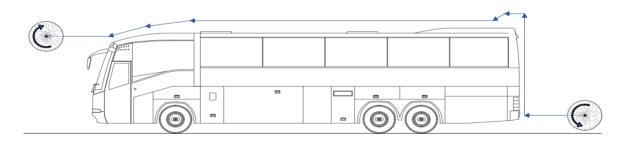


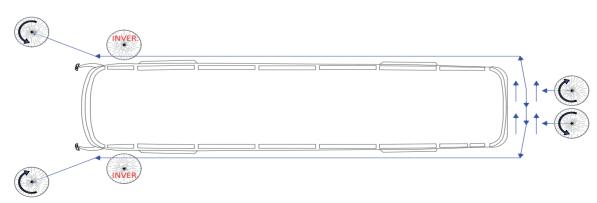


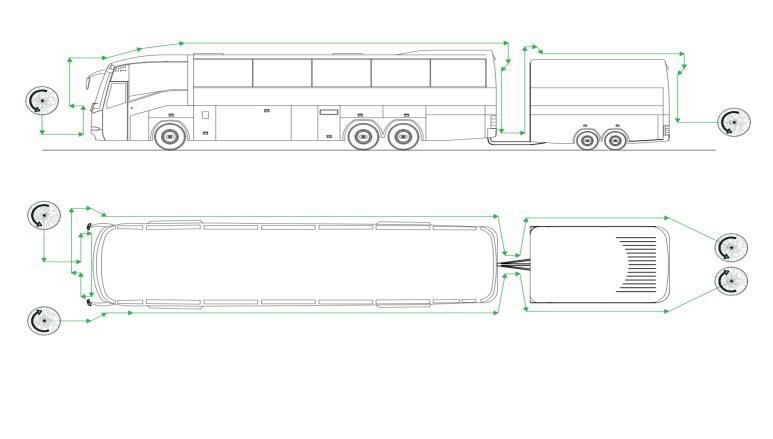


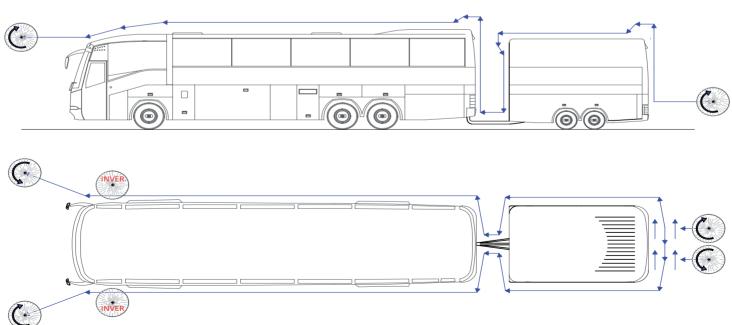










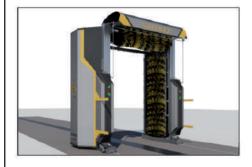




# **Competition comparison**







StarTruck



BALTIC



**OMEGA WASH** 

**(ISTOBAL** 





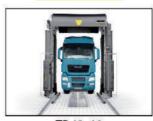


CAMBUS AE.3



ULTIMA

KARCHER



TB 42, 46

#### WashTec



**MAXIWASH VARIO** 









MAGNUM