

# Cleaning Innovation

*Detail is our mission*

The new roll-over **STARGATE S10** aims to meet everyone's needs in terms of design, quality, high technology, efficiency and low maintenance

## Design

Modern, clean, futuristic, dynamic and with clear features that distinguish Aquarama's washing roll-overs range. The new Hi-Line claddings set-up looks to the future, meeting at the same time the needs of aesthetics and functionality.



At the front, two vertical LED walls mounted on the doors and one horizontal positioned on the top cladding give a high-tech and modern look to the classic communication system. The graphic and textual representations of the washing phases, the functions of the positioning traffic light, the customizable communications, meet the needs of practicality, clarity and aesthetics.

The led vertical walls are available in different sizes.

Front and rear the Hi-Lights, luminous inserts on the top claddings, creep into the darkness for a sure scenic effect.

## Dimensions / Measurements in millimeters

Washing height	2.100	2.300	2.400	2.500	2.800
Machine height at rest	3.070	3.070	3.270	3.270	3.570
Machine height during wash	3.070	3.275	3.375	3.475	3.775
Machine width	3.770				
Minimum splash guard width	3.880				
Washing width	2.550				
Machine depth	2.430				
Machine depth Version "R" (photocells' barrier) - Optional	2.430				
Machine weight	2.250	2.250	2.400	2.400	2.550
Distance between rails	3.000 (2.700-2.800-2.854 on request)				
Rails length	10.000	10.000	10.000	10.000	12.000

## Dimensions of washing bay for vehicles 5 meters length

Height	3.100	3.300	3.400	3.500	3.800
Width	4.880 - **4.100				
Length	10.700 - **9.800				

\*\* With optional anti-crush devices

## Technical data

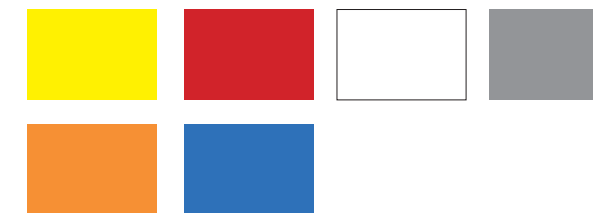
Translation speed	m/min	0-22
Water pressure	Bar	3-5
Air pressure	Bar	8
Tension	Hz	400 3/N/PE 50
Total power	kW	16
Voltage control	V	24
Drying power	kW	2x3 roof + 2x4 side

The data are indicative and not binding

## High pressure pumps / Optional

Water high pressure	Bar	80
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## Available colours



[www.aquarama.it](http://www.aquarama.it)

# STARGATE S10



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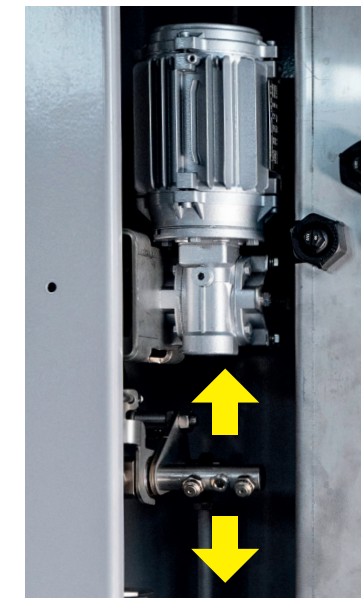
## Technology and efficiency in one single product

### FLEXUS SYSTEM - THE VERTICAL BRUSHES INCLINATION SYSTEM (PATENTED)

The exclusive tiltable system of the vertical brushes on the front and back of the vehicles represents a new evolution in roll-over washes. The inclination is motorized by inverter and synchronized with the movement of the roll-over itself; the perfect detection of the inclination of the various areas of the vehicle is guaranteed by the photocells' barrier scan. At the front, it allows to perform the overlapping without stopping the towing and to synchronize it with the wheel washer, on any type of vehicle. The inclination, in both directions, also allows areas under the front and rear bumpers, and on the rear window, until today something unthinkable.



## High pressure becomes the protagonist



### HIGH PRESSURE PUMPS SYSTEM

High pressure pumps system for an effective and accurate pre-washing. Flow rate at 42, 84 or 126 l/min. Storage tank. Available into insulated outdoor cabinet or mounted on frame for technical room.

### SIDE HP WITH MOTORIZED OSCILLATING NOZZLES, ADJUSTABLE TO 3 POSITIONS

For a better dirt removal from the side and from the front and rear parts.

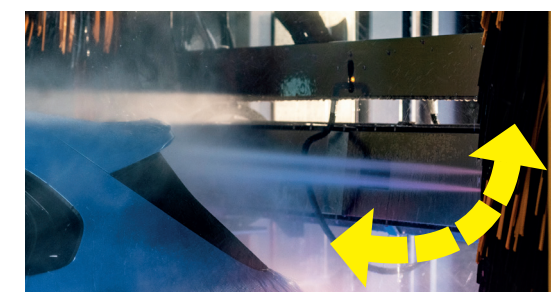
### LOW LATERAL, IN THE FOOT, WITH MOTORIZED OSCILLATING NOZZLES, ADJUSTABLE ON 3 POSITIONS

For better removal of dirt from the low sides, pre-slats and wheel arches.

### TOP CONTOUR FOLLOWING WITH MOTORIZED OSCILLATING NOZZLES

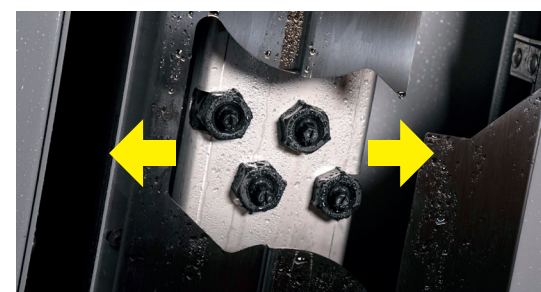
High pressure on 360° rotating drying blade for more effective dirt removal. High pressure opposite side to drying, to avoid unwanted dripping.

## An innovation that makes the difference



### WASHING FUNCTION UNDER REAR SPOILER (PATENT PENDING)

Detection of the position of the rear spoiler and related cleaning with high pressure contour following system.



### ORIENTABLE CHEMICAL DISPENSING

Up to four chemicals can be optimally dispensed with an orientation in 3 positions, for the front, side and rear of the vehicle. For a uniform dispensing without waste.



### HYDRO-PNEUMATIC GROUP

New group consisting of islands of high-tech electro-valves controlled directly by Ethercat.

- Water valves pneumatically controlled
- Pneumatic dosing pumps
- 10 L modular chemical tanks

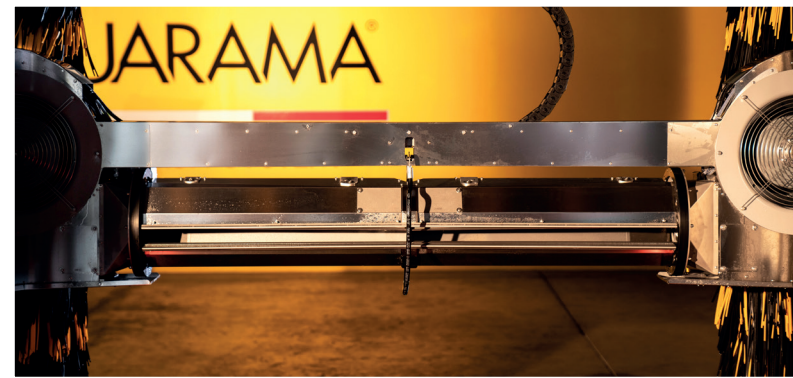


### NEW GENERATION ELECTRICAL BOARD

- Up to 5 inverters that manage 7 controlled movements
- Next Generation PLC
- Communication and data exchange by Ethercat

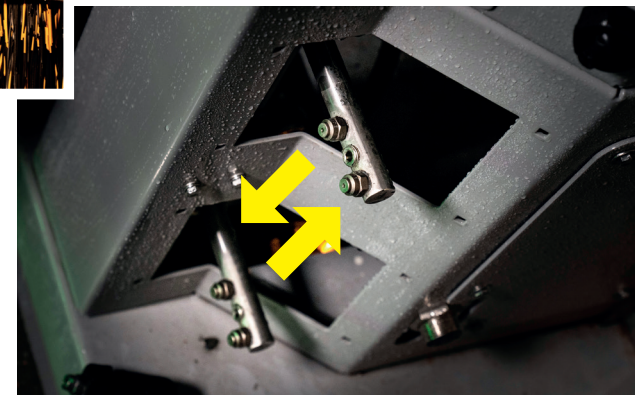
### ROTAX, THE 360° ADJUSTABLE DRYING BLADE

- High efficiency drying with electric fans at 1450 rpm/min, large flow rate and maximum silence.
- Upper conveyor in stainless steel to follow the profile, adjustable to 360°.
- 2 upper fans of 3 kW.
- 2 side fans of 4 kW.



### SAFETY

- Warning notice about loosening of the lifting straps.
- Anti-fall locking system of the drying blade and the horizontal brush.



### WHEEL WASHER OSCILLATING LOWER HP NOZZLES

The presence of nozzles at the level of the wheel washers ensures an accurate and deep cleaning of the rims.



### PHOTOCCELLS' BARRIER

Thanks to the photocells' barrier it is possible to detect any vehicle shape, optimizing the touch of the horizontal brush and the pass of the drying blade. Direct serial connection with PLC.

### DETECTION ACCURACY

of particular shapes

### AUTOMATIC DETECTION OF PARTICULAR SHAPES

Skibox, flashing lights, Pickup, Taxi lights, Police lights, etc...

### DETECTION SPEED

- First pass up to 20 m/min
- Fluidity of movement
- Drying blade and horizontal high pressure
- Horizontal brush



### AQUAPAY SELF-SERVICE PAYMENT SYSTEMS

#### Accept

- Capacitive touchscreen with high thickness crystal
- By value or by washing program Smart Coin Cards
- Banknotes, coins and/or tokens
- Credit Cards

#### Deliver

- Receipts
- Smart Coin Cards
- Coins and/or tokens



Control terminal designed for simple and intuitive use, made with burglar-proof materials to make self-service washing operational 24 hours a day.

Possibility for the operator to configure each pass to create personalized programs.

Possibility for the end user to upgrade the selected basic washing program with additional options.

## Stargate S10 technical features

### STRUCTURE

- Galvanized and painted steel frame
- ABS claddings
- Direct roll-over towing by inverter
- Aeronautical high strength riveting
- Stainless steel fasteners

### DRYING

- Horizontal stainless steel blade to follow the profile, adjustable on 360° by motorized control with inverter
- Electric lifting by inverter
- Stainless steel guides
- Side drying with 2 electric fans
- Fall arrest safety system

### HORIZONTAL BRUSH

- Electric lifting by inverter
- Rotation and electronic power control by inverter
- Stainless steel guides
- Fall arrest safety system

### VERTICAL BRUSHES

- Galvanized steel single beam guide
- Electric movement by inverter
- Rotation and electronic power control by inverter
- Overlapping on the front and back of the car
- Side inclination and locking by pneumatic cylinder
- Tow hooks safety

### STANDARD EQUIPMENT

- Hydraulic system with electro-valves and dedicated ramps
- Dosing pump for shampoo
- Dosing pump for wax
- Control terminal placed into a wall technopolymer box with 7" colour touchscreen display
- 7 inverters
- Self-Service predisposition fully integrated into machine electronics