

CAR WASH

Professional solutions for car washing

Your trusted partner in dosing solutions

About us

With a **legacy spanning decades**, Injecta specializes in the design and manufacture of dosing systems for diverse industrial sectors.

Safety is at the heart of our mission: we understand the risks associated with chemical handling, therefore we provide **solutions engineered to mitigate critical operational risks.**

Leveraging our **technical expertise**, we guide clients in **optimal material selection** and the **integration of dedicated safety systems.**



Efficiency in car washing

In the **automotive sector**, cars and commercial vehicles require effective, uniform, and consistently reliable washing, whether in automatic portals and wash bays, or using high-pressure washers for manual operations.

Automatic dosing systems and high-precision pumps ensure that every detergent is dispensed in the ideal quantity, minimizing waste, containing operational costs, and promoting sustainable and responsible facility management.

Importance of chemical treatment

From single-nozzle **foam application** to **manual lances, chemical dispensing systems** ensure the **correct amount of product** regardless of **flow** and **pressure variations**.

This allows for precise control of consumption, preventing insufficient amounts from compromising wash quality or excessive dosing from generating waste.

Professional pumps and systems are designed to handle the **majority** of **chemicals** used in vehicle washing and can be adjusted to suit different concentrations and applications, optimizing results and operational efficiency.



Dosing pumps

HYDRA



- Materials** PVDF Head
Ceramic balls
PTFE Diaphragm
Special seals for car wash applications
- Flow Rate** 2 flow rate ranges:
0÷20% with selector in position "P"
0÷100% with selector in position "C"
Internal Microswitch
- Range** Flow rate: 3 – 5 l/h
Pressure: 8 – 10 bar

ATHENA BX-BL



- Materials** PVDF Head
Ceramic balls
PTFE Diaphragm
- Flow Rate** Flow rate adjustable via a knob on the front panel
POWER-ON
0÷20%, 0÷100% dual manual flow regulation
- Range** Flow rate: 7 – 18 l/h
Pressure: 16 – 1 bar

HYDROPUMP



- Materials** Body: PP or PVDF
Seals: FPM, EPDM, AFLAS
- Operating mode** Volumetric hydraulic motor, integrated mixing, no electrical power required
Self-priming function, ensuring suction of concentrate up to **4 m**
- Range** Flow rate: 10 l/h - 2.5 m³/h
Pressure: 0.3 - 6 bar
- Dosing** 0.2 - 10% (depending on model)

Professional dosing in car washing



Our dosing pumps are designed to handle most **chemicals** used in car washes and detailing centers, ensuring constant and safe performance.

They offer various dosing ranges, from intense treatment for particularly **dirty surfaces** to reduced settings for **ultra-concentrated products**, easily adjustable via a simple manual control.

Cleaning systems

CAR WASH 01 B



Rinse aid system for car washes and detailing centers

Dosing

Based on Venturi technology free of moving parts

Range

Operating pressure: 2 – 6 bar
Water temperature: up to 50 °C
Water flow rate: 7 l/min

Equipment

- Lightweight black hose
- PVC spray lance
- Installation kit with quick connections
- Connection kit 3/4" – length 2 m
- Built-in hose holder

CAR WASH 01 D



Detergent system for car washes and detailing centers

Dosing

Based on **PVDF** Venturi technology resistant to corrosive agents

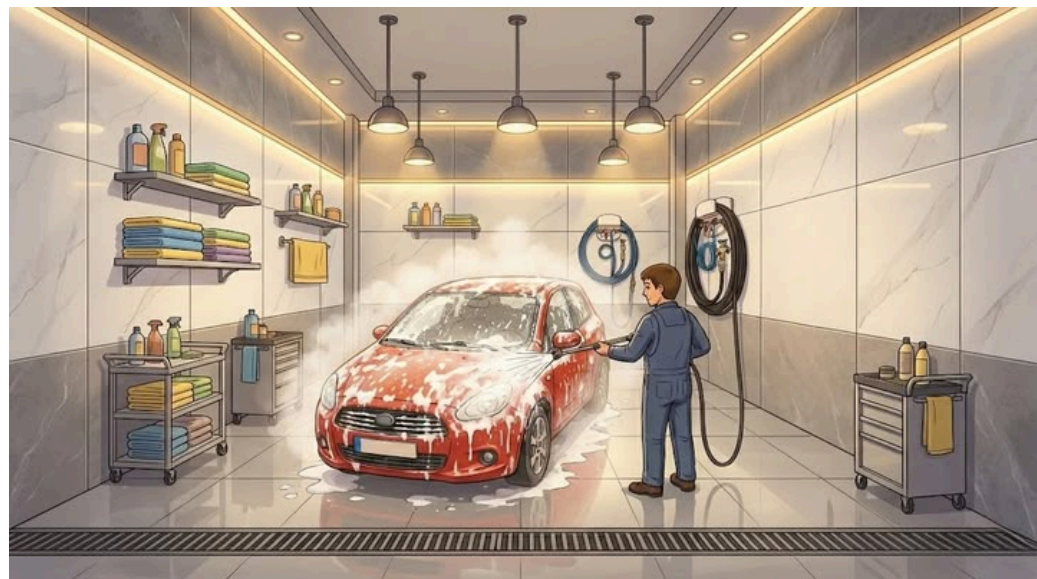
Range

Operating pressure: 2 – 6 bar
Water temperature: up to 50 °C
Water flow rate: 4.2 l/min

Equipment

- Lightweight black hose
- Stainless steel spray lance
- Installation kit with quick connections
- Connection kit 3/4" – length 2 m
- Built-in hose holder

Technologies used in car washing



Based on **high-reliability Venturi technology**, these systems ensure **uniform detergent nebulization**, optimizing water and product consumption.

Ideal for car washes and detailing centers, they offer ease of installation, compatibility with aggressive detergents, and maximum operational efficiency, contributing to **professional and repeatable cleaning results**.

Nebulization systems

CAR WASH 02



Detergent and Rinse Aid Nebulization System

Dosing

Based on Venturi technology free of moving parts

Range

- Operating pressure: 2 – 6 bar
- Water temperature: up to 50 °C
- Water consumption: 4.2 l/min (Detergent)
7 l/min (Rinse Aid)
- Dilution ratio: **Washing:** 0.5 – 12.9%
Rinsing: 0.4 – 13.4%

Equipment

- Lightweight black hose
- Stainless steel spray lance (detergent)
- PVC spray lance (rinse aid)
- Installation kit with quick connections
- 3/4" connection kit – length 2 m
- Built-in hose holder

CAR WASH 03



Acid or Alkaline Product Nebulization System

Specific for wheel rim cleaning

Dosing

Based on Venturi technology free of moving parts

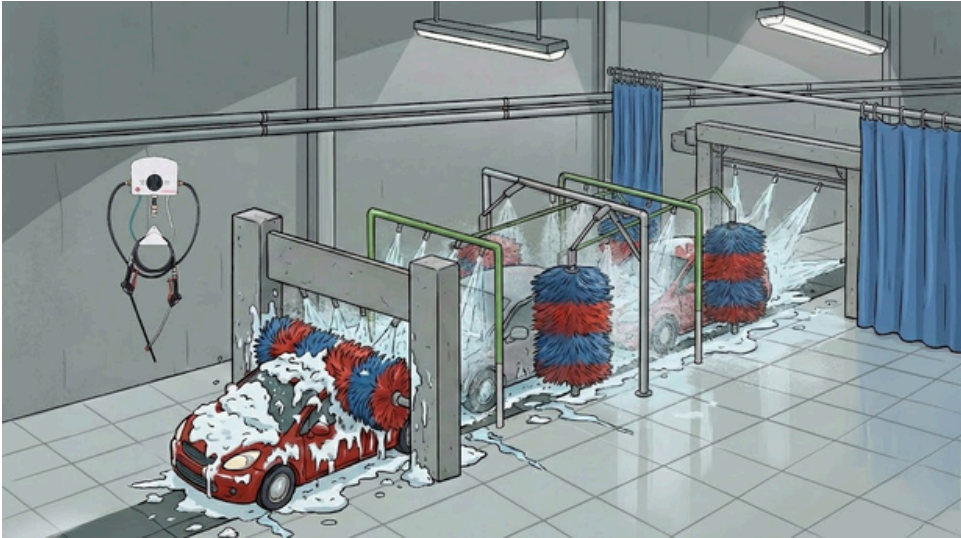
Range

Operating pressure: 2 – 6 bar
Water temperature: up to 50 °C
Water flow rate: 4.2 l/min

Equipment

- Chemically resistant grey hose
- PVC spray lance
- Installation kit with quick connections
- 3/4" connection kit – length 2 m
- Built-in hose holder

Technologies used in car washing



The adoption of **nebulization systems** for **detergents, rinse aids, and chemical treatments** represents the professional choice for car washes and detailing centers.

The **Venturi technology** without moving parts ensures reliability and precision in product dosing, with **uniform distribution** that optimizes consumption and operating times.

Foam Systems

FOAM SYSTEM



Dry foam with rinsing / without rinsing

Temperature	Up to 50 °C
Range	Water Pressure: 2–6 bar Compressed Air Pressure: 2–6 bar (optimal 3.5 bar) Dilution ratio: 19–22%
Accessories	The station is equipped exclusively with the foam lance Water and compressed air pressure gauges included

FOAM CANNON



Acid or Alkaline Product Nebulization System

Operating mode	The chemical product is pre-mixed with water and the system operates solely with compressed air, constantly connected
Range	Pressure: 10 bar
Versions	24 or 50 l
Equipment	- Stainless steel lance 10 m blue hose

JET FOAMER



Mobile foam generator

Materials	Body: Polyethylene Pump: Santoprene or Viton
Versions	40 L or 90 L
Operation	With pre-mixed solution
Pressure	From 2.7 to 5.5 bar (40–80 psi)
Accessories	Ball valve Nozzle in AISI 304/316

JET NEAT



Mobile foam generator

Materials	Body: Polyethylene Pump: Santoprene or Viton
Range	Water/Air Pressure: 1.8 – 6 bar Temperature: 50 °C Dilution ratio: 1:10 – 1:250
Operating mode	- Automatic mixing of concentrate only at the point of use - ON/OFF functions controlled by trigger lever - Adjustable spray: wide fan or powerful solid stream
Accessories	Calibrated nozzle Spray nozzle Spray gun / lance
Versions	1,4 L 2,5 L



Via Maestri del Lavoro, 1/A
02100 Rieti (RI)

0746 221438

info@injecta.com

injecta.com

