

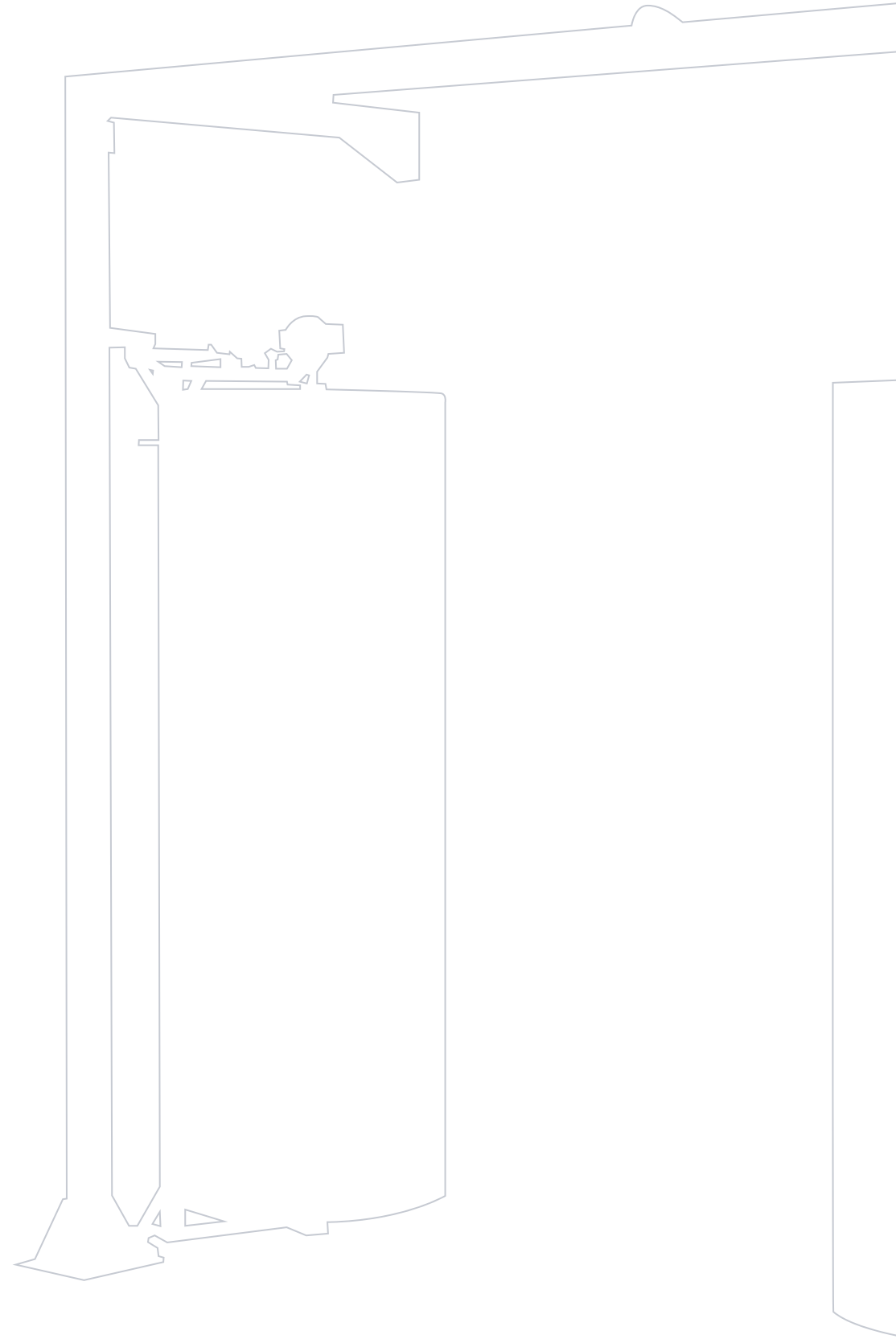
HEAVYWASH TRAIN THROUGH COMPREHENSIVE WASH SOLUTIONS FOR THE RAILWAY INDUSTRY

HEAVYWASH TRAIN THROUGH by ISTOBAL is an automatic wash system for the railway industry (trains, trams, light rail, underground trains, etc.), based on proven technology that excels in speed, efficiency and versatility, but above all excellence in the result.

We offer turnkey solutions that include advice, design, production, installation and lifetime maintenance. Solutions made up of standardised modules that make the installation more flexible and provide it with maximum versatility and adaptability. A technological model that allows the development of drive-through wash systems, stationary wash by means of rollovers with movement on rails or the combination of both systems, with one-way or two-way solutions.

We have an international network of partners specialised in turnkey railway systems and construction companies. Istobal is globally qualified by some of them and our customers include important players in the sector.

We not only develop wash equipment but also water treatment systems, electrical cabinets and chemical solutions, which guarantees complete control over the installation.



ISTOBAL HW'TRAIN THROUGH
Choose the path to efficiency

ISTOBAL HW' TRAIN THROUGH



SPRAY ARCHES

Applications

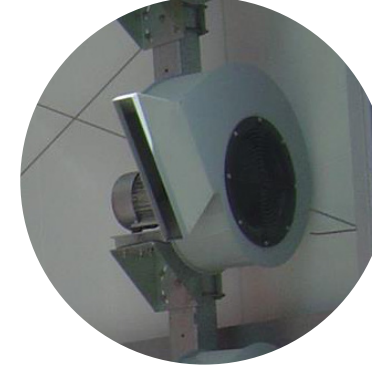
- 1) Pre-rinse or rinse
- 2) Pre-wash where an alkaline or acid chemical is applied in a foaming way to optimise the contact time with the vehicle.
- 3) Final rinse, with or without demineralised water, with the possibility of controlled introduction of drying wax.



FRONT END WASH

With the Stop&Go system, a rail-mounted rollover performs an intensive wash on the front and rear of the vehicle, and divided horizontal brushes can be installed for vehicles with overhead line equipment, or even a three-brush rollover for washing underground trains.

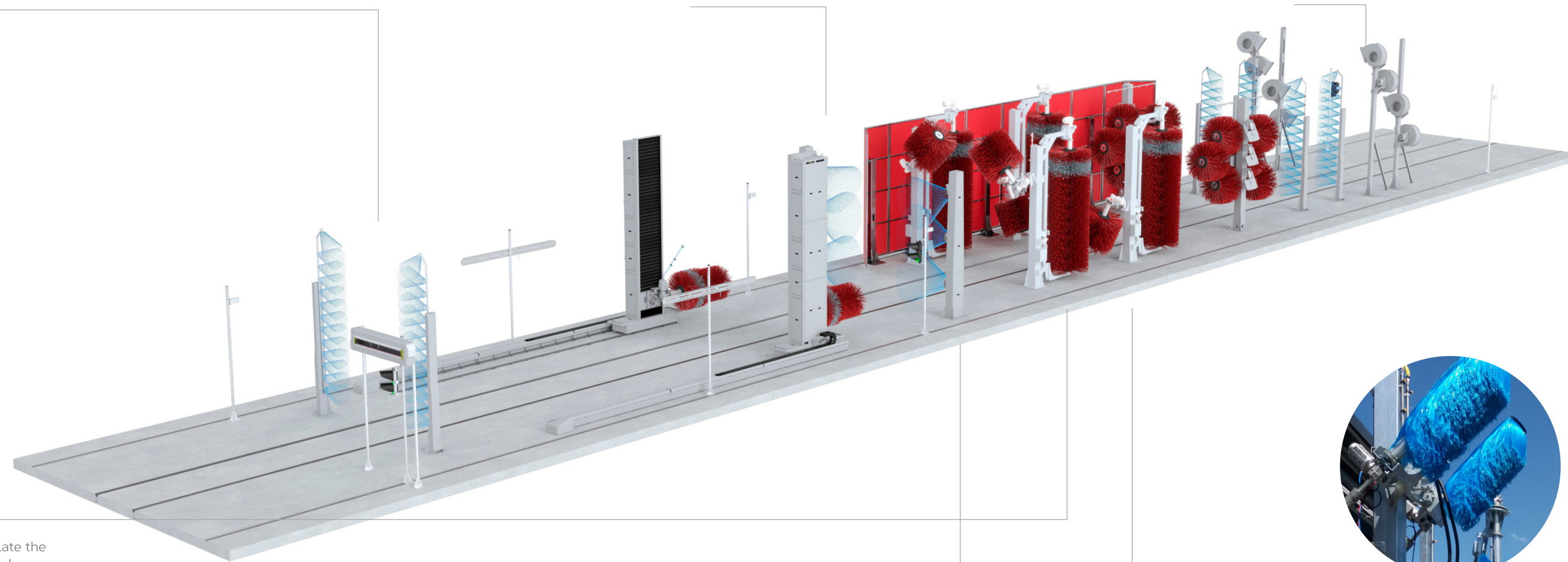
The system has positioning sensors and traffic light indication for communication with the driver as well as the possibility of dosing chemicals or high pressures for vehicles with uneven surfaces.



DRYING

To achieve a higher quality finish, Istobal has a modular drying system with up to 14 4kW turbines, which can be easily oriented to achieve a cascade effect and therefore eliminate most of the water left in the vehicle after the final rinse.

The turbines work at 1500 rpm and have a flow of 6.750 m³/h, therefore achieving long drying distances with low noise emissions.



SIDE BRUSHES

They have a pneumatic control to regulate the pressure constantly during scrubbing and a cushioning system to avoid blows and ricochets on the surface of the vehicle.

The design of the columns and the quality of the materials make it possible to minimise the maintenance of the brushes. The brushes come in different hardnesses and diameters so that they are adapted to the requirements of each installation.



HIGH PRESSURE

ISTOBAL HW'ROTATORS is the only drive through wash system on the market with motorised rotors that guarantees maximum wash pressure at constant speed and includes spray arms with stabiliser to prevent pressure loss.



BRUSHES FOR IRREGULAR SURFACES

To reach the different side profiles of the vehicles, we have brush modules for panels and upper corners, which can be adapted to the side brush columns to minimise space in the installation.

To work on vertical gaps (windows or gussets), we have a set of six brushes that rotate in opposite directions to each other for deeper cleaning.

A RELIABLE PARTNER ALWAYS AT YOUR SIDE

Comprehensive project management

Istobal has engineers specialised in the design and adaptation of our equipment to the needs of the customer, who, through our project managers, manage the implementation of each project, defining the wash bay modules, the technical room equipment and the interconnection units between them.



Strength and agility in a perfect connection

Our large manufacturing capacity allows us to develop wash technology for any corner of the planet in record time, adapting to the reality, needs and requirements of each customer. Experience allows us to perfect and develop our machines so that they offer maximum performance.



We think globally. We act locally.

An established network of subsidiaries and distributors allows us to respond quickly and flexibly to the needs of markets worldwide by offering pioneering products and services that are well-served by a global technical service.

