



ISTOBAL HW'PROGRESS

Progress turned into a machine



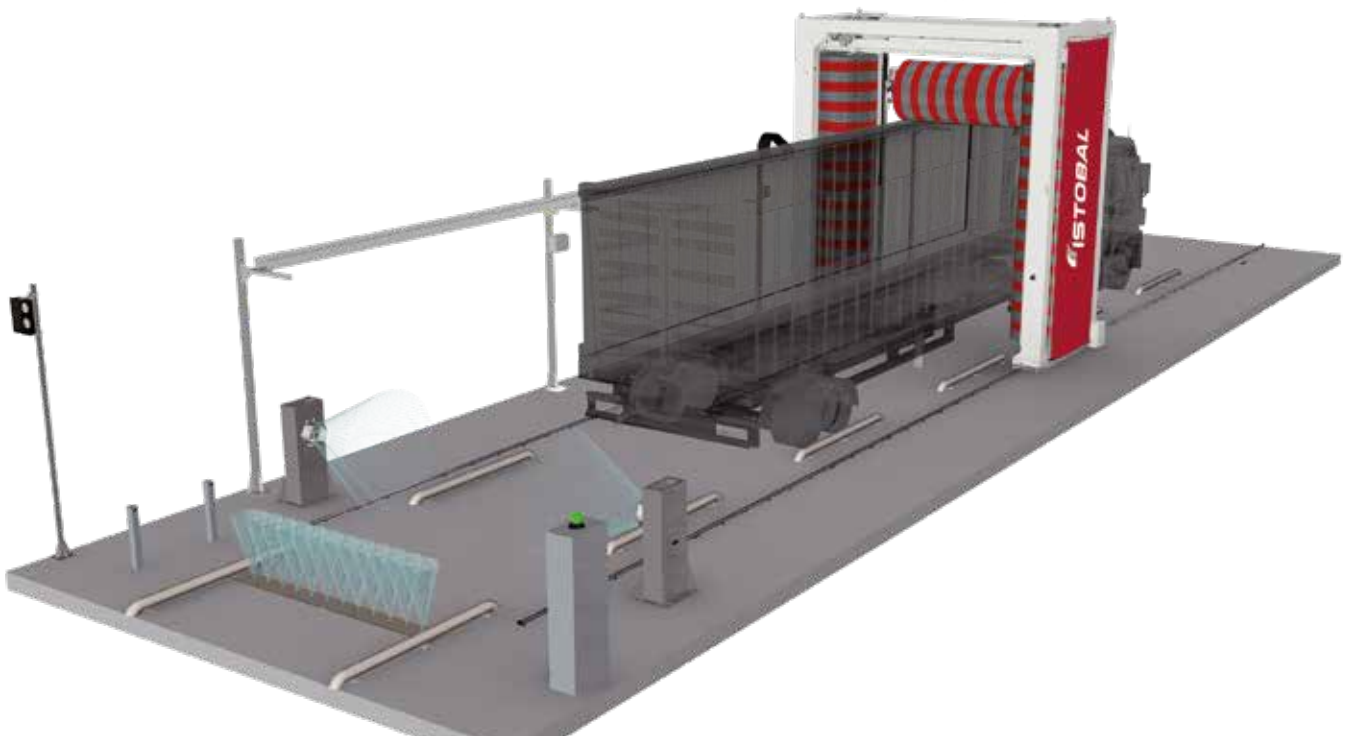
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HW'PROGRESS

Model **ISTOBAL HW'PROGRESS** of the commercial vehicle range has an optimised design and incorporates all the technological developments currently demanded by transport professionals. **ISTOBAL HW'PROGRESS** is the most flexible commercial vehicle rollover in the market, and can be adapted to the specific requirements of each type of vehicle fleet: vans, trailer trucks, buses, tankers, garbage trucks, vehicles for the construction industry and other special vehicles.

The equipment consists of a robust cubic structure made of hot-dip galvanised steel. It has self-driven vertical brushes with an overlapping scrub function and shampoo-injection via a dosing pump, flexible configuration by user with up to 15 programs, a touch-screen control panel, and a choice of service connections: energy chain, loop connection, or a fixed or swinging post. For corporate image consistency, the rollover structure can be customised in 23 and the polyethylene brushes in 4 different colours.



WASH DIMENSIONS

MAX. VEHICLE HEIGHT	3,610 / 3,880	3,730 / 4,000	4,230 / 4,500	4,730 / 5,000
VEHICLE ACCESS WIDTH	2,830	2,830	2,830	2,830
LENGTH OF RAILS*	24,000	24,000	24,000	24,000
HEIGHT OF MACHINE	4,590 / 4,780	4,710 / 4,900	5,210 / 5,400	5,710 / 5,900
WIDTH OF MACHINE**	4,740	4,740	4,740	4,740

* Standard length 24 m. Modules can be added.

** Recommended bay width 5,400 mm.

All measurements in mm.

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FEATURES

EXTERNAL CONTROL PANEL



The external control panel with a colour touch-screen facilitates **user-friendly navigation** on the machine menu. It is equipped with push buttons for machine and brush manual movement, selection of up to 15 programs, and the possibility of on-line connection for remote control. A flexible configuration allows the user to set programs by wash pass, optimising speeds on each individual pass.

VERTICAL BRUSHES



The self-driven vertical brushes perform an overlapping scrub on the vehicle front and rear. Brush positions are controlled by means of an encoder and the brushes of high-density polyethylene work with three pressure levels for the different vehicle shapes. Patented front tilting system - for improved cleaning results on the windscreen - is optional.



HORIZONTAL BRUSH



The high-density polyethylene horizontal brush is equipped with a frequency converter to soften up and down movements, and with **5 pressure levels** to better follow vehicle profiles. Thanks to the model's flexible configuration, up to 4 'obstacle-avoidance' scans for wing mirrors and sunscreens are also possible.

OTHER OPTIONAL EXTRAS



- Quick drive through programs for buses
- Centring guides
- Wax dosing pump
- Splash screens for vertical brushes and horizontal brush
- Demineralising unit
- Recycling unit
- **ISTOBAL esens®** chemical products



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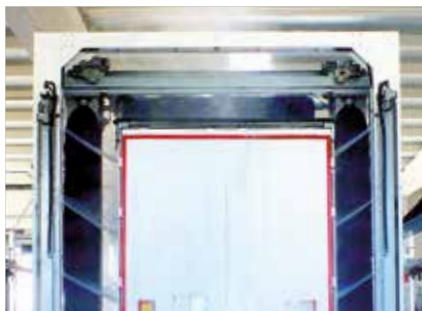
AUTOMATIC PRE-WASH SYSTEMS

HIGH-PRESSURE LOWER SIDE



The perfect optional extra to complement the brush-wash process in lower vehicle areas or on corners inaccessible to the brushes such as rims, underside, or tanks. It consists of **16 zero-angle nozzles** to operate at **70 bar** and with **84 L/min.** or **126 L/min.** It works with an oscillation motor (up-down) and a rotating cylinder (forward-backward) to thoroughly clean this area from different angles.

HIGH-PRESSURE SIDES



Recommended to thoroughly wash the upper side of the vehicle, particularly for tankers, garbage trucks or vehicles with special profiles, and to reach areas inaccessible to the vertical brushes. Consisting of **24 zero-angle nozzles** to operate at **70 bar** and **126 L/min.**, it works with an oscillation motor (up-down) and a rotating cylinder (forward-backward).

HIGH-PRESSURE TOP



Especially developed for the touchless wash of the vehicle front and upper areas or to enhance cleaning results with demanding vehicle fleets. It works with **16 zero-angle nozzles** at **70 bar** and **126 L/min.** and with an oscillating motor and a spinning motor for software-controlled **180°** motion.

MANUAL PRE-WASH GUN

This optional extra allows the user to manually improve the automatic wash with a high-pressure gun working at **160 bar** and with **18 L/min.** Using the same gun, shampoo can be applied together with the high-pressure, or a 15 bar chemical pre-wash program can be selected. The external control panel can be mounted at a distance or wall-mounted. A reel can be installed too. The unit can work with hot water and with softened water.



FOAMY CHEMICAL SPRAY



The automatic application of the chemical pre-wash saves time and controls consumption by service; its foamy texture ensures greater efficiency in the chemical through a longer reaction time on the vehicle surface. This optional extra includes stainless steel pipes and foamers for air mixing, a **100 L** pre-mix tank and a high-pressure pump working at **100 bar** and **28 L/min**.

HIGH-PRESSURE UNDERCHASSIS WASH



Drive-through underchassis wash with high-pressure, working at 70 bar and 126 L/min. With entry photocells for an automatic operation and **12 rotating zero-angle nozzles**, it is installed at the start of the bay. It can work with the same high-pressure pump rack that feeds the rollover by means of a solenoid valve.

HIGH-PRESSURE RACKS



We have water pump racks for a high-pressure wash at **70 bar** and **84-126 L/min**, with 11 or 16.5 kW total power, including -respectively- 2 or 3 70 bar pumps with 5.5 kW power. They include a **200 L** water tank at a height to adequately supply the water pumps, and a by-pass valve with a pressure regulator. A 100 micron inlet filter protects the water pumps and prevents nozzles from clogging.



