



ISTOBAL HW'PROGRESS2
Machine-made progress



HW'PROGRESS2, a more efficient wash

The ISTOBAL HW'PROGRESS2 model from the washing range for industrial vehicles has an optimal design incorporating comprehensive technological innovations as currently on demand by transport businesses.

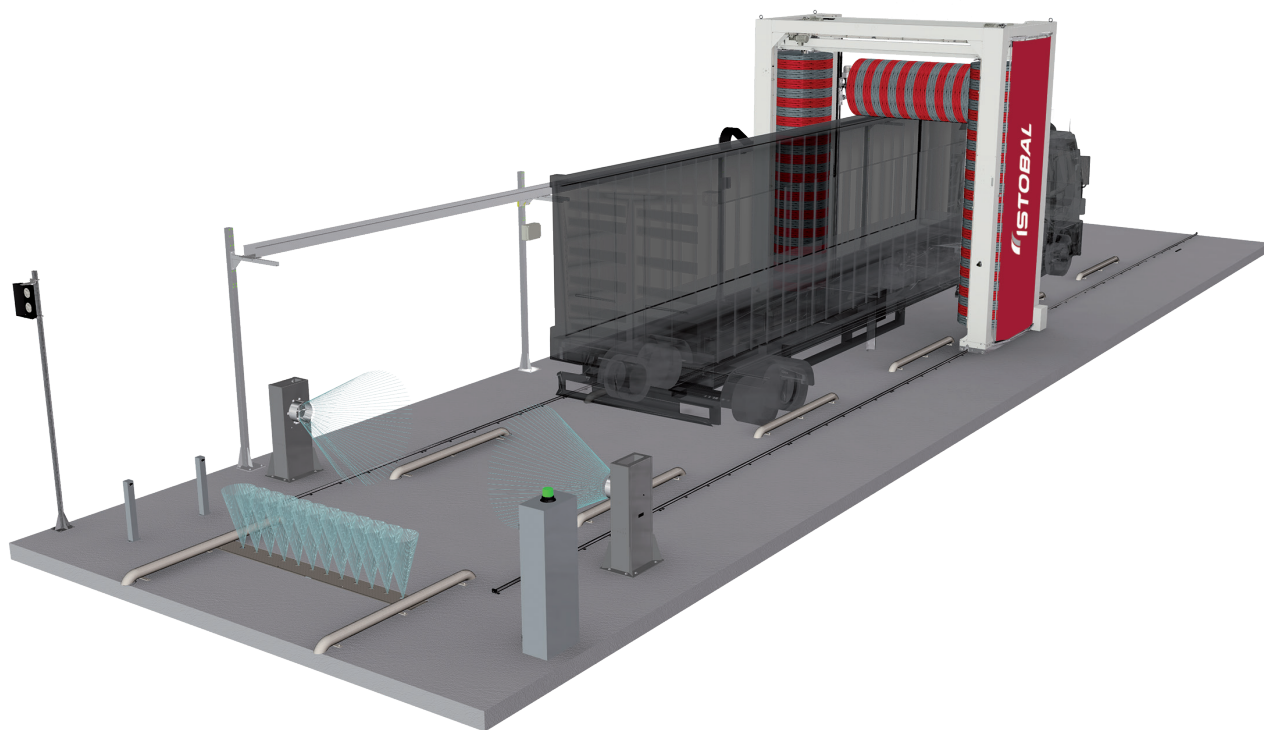
The latest evolution of the ISTOBAL HW'PROGRESS2 industrial vehicle car wash incorporates an optimised redesign of the hydraulic circuit that provides optimum washing with up to 25% less water consumption and using up to 6% less energy.

The sectorisation of the water circuit for brush rinsing, which allows the water flow to be cut off to the horizontal brush while it is not working, together with the resizing of the main water supply, enables optimisation of the main water pump.

ISTOBAL HW'PROGRESS2 is the most flexible industrial vehicle car wash on the market, capable of covering all segments, from vans to irregular vehicles, and other vehicles with special characteristics.

The equipment is made up of a robust cubic structure made of hot-dip galvanised steel and has vertical brushes with a double scrubbing function and shampoo injection using a dosing pump.

A flexible configuration with up to 31 programs and functions which the customer can freely select, a touchscreen control panel and various types of connections for supplying the rollover: by chain, loops or via a fixed or pendulum post. The structure of the rollover can be customised in 23 different colours and the polyethylene brushes come in 4 colours to adapt to any brand image.



WASH DIMENSIONS

WASH HEIGHT	3.610 / 3.880	3.730 / 4.000	4.230 / 4.500	4.730 / 5.000
WASH WIDTH	2.830	2.830	2.830	2.830
RAIL LENGTH*	24.000	24.000	24.000	24.000
MACHINE HEIGHT	4.590 / 4.780	4.710 / 4.900	5.210 / 5.400	5.710 / 5.900
MACHINE WIDTH**	4.740	4.740	4.740	4.740

*Standard length: 24 meters. Can be expanded using modules.

**Recommended track width: 5400 mm

All dimensions in mm.

WASH CHARACTERISTICS



External control panel

The outdoor control station with colour touch screen allow easy and intuitive navigation through the machine menu. It has push-buttons for manual movement of the machine and brushes as well as selection of up to 12 programmes by direct access from the controller.

The new and improved control station incorporates selectors for direct disconnection of high pressures and/or application of chemicals without interrupting the programme. Thanks to this flexible setup, the programs can be adjusted for each wash, optimising speeds for each operation.



Vertical brushes

The polyethylene brushes, with a diameter of 1100 mm, offer a much more complete wash. They can reach even the most difficult corners due to their improved penetration properties. The lower part is made up of high density brushes, increasing the durability of the brushes and providing better results.



Horizontal brush

The horizontal high-density polyethylene brushes are equipped with a variable frequency drive to smooth out upward and downward movements, as well as 5 different pressure levels to suit different vehicle profiles. In addition, thanks to its flexible configuration, this model allows for up to 4 obstacle-avoidance profiles for mirrors or sunscreens.

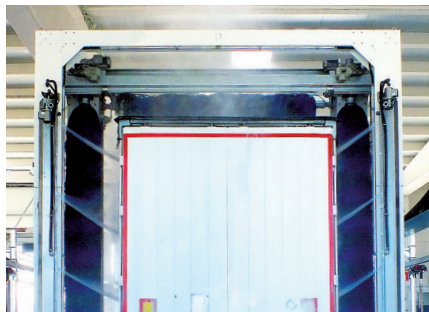
OPTIONAL FEATURES

AUTOMATIC PRE-WASH SYSTEMS



Lower high-pressure

The perfect option to complement brush washing on the lower part of vehicles or in those tough-to-reach corners such as rims, undercarriages or tanks. This option consists of 16 zero-angle nozzles for washing at 70 bar and 84L/min. or 126L/min., and works with an oscillating motor (up-down) and a rotating cylinder (front-back) to clean this area in depth from various angles.



Side high-pressure

This option is recommended for thorough washing of the upper side of vehicles, especially tankers, refuse trucks or special profiles, to reach areas where the vertical brushes cannot wash.

16 nozzles	$h > 5m$
20 nozzles	h_{max}



Upper high-pressure

This model is especially developed for the brushless washing of the front and top areas of vehicles or to optimise wash results for the most demanding fleets. This model is fitted with 16 zero-angle nozzles at 70 bar and 126L/min. and with an oscillating motor, and a rotating motor that allows for program-controlled 180° movement. A new scanning system is optionally available to automatically profile the vehicle and adapt the high-pressure nozzle's trajectory to the vehicle profile.



Foaming chemical spray

The automatic application of the chemical pre-wash program saves time and controls consumption per wash. Its foamy texture boosts chemical efficiency thanks to a longer reaction time on the vehicle surface. This option includes stainless steel pipes and foamers for mixing with air, 100L premix tank and a high-pressure pump operating at 100 bar and 28L/min.



Lower side high-pressure wash

High-pressure drive-through wash for lower parts programmed at 70 bar and 126 L/min. It is installed at the beginning of the wash track and has infeed photocells for automatic operation. It can work with the same high-pressure pump rack that feeds the rollover.



High-pressure racks

We have electrical pump racks for high-pressure washing at 70 bar and 84-126L/min, with a total power of 11 or 16.5 kW, consisting of 2 or 3 electrical pumps respectively operating at 70 bar and a power of 5.5 kW. They include a raised 200 L water tank positioned to correctly feed the electrical pumps and a bypass valve with pressure regulator. Its 100 micron inlet filter protects the electrical pumps and prevents the nozzles from clogging.



Second chemical for acid applications

Alternative or additional chemical application for the foaming chemical spray. This treatment can be applied as an acidic chemical pre-wash, to clear dirt comprising limescale or inorganic matter, as well as to apply disinfectants. Thanks to the 900 l/min pump and optimal nozzle distribution, this new chemical application is designed to evenly cover the surface of the vehicle to be washed.

More options

Highlights:



Fast drive-through wash programs for coaches

The drive-through and fast bus wash modes offer an optimal fleet management solution, in situations where high machine performance is required, significantly shortening wash times.

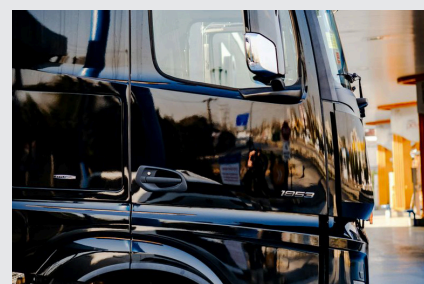


Centering guides

Hot-dip galvanised steel guides. These guides center the vehicle and thus prevent any incorrect positioning of the vehicle on the wash track.

Dimensions:

Length 2,300 mm x Height 120 mm



Wax dosing pump

For situations where the washed vehicle needs an extra quality finish, the wax rinse option improves water drainage and offers a top quality finish.

In addition to:

- ISTOBAL esens® chemical
- Demineraliser panel
- Splash guards for vertical and horizontal brushes
- Recycling equipment

SAFETY

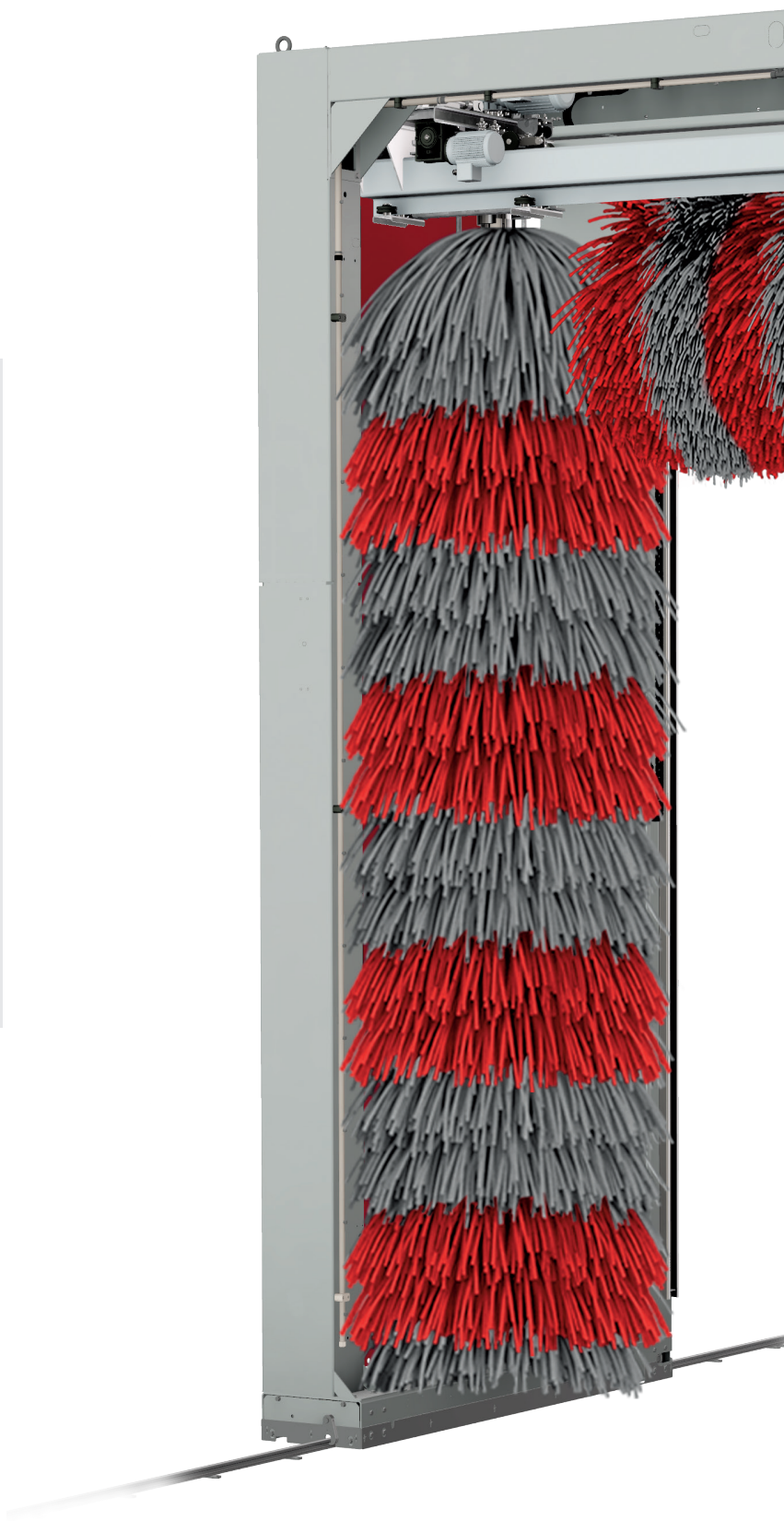
ISTOBAL HW'PROGRESS2

On track

- > Acoustic movement signal Required on machines working in unattended mode.
- > External anomaly alarm.

On machine

- > External profiles.
- > This safety system is required when the machine is less than 0.5 m from the adjacent surface: fence, pillar, walls, etc.
- > Track obstacle detection.





WATER TREATMENT



Physical Plus Recycler

It achieves a water recycling rate of up to 92%, depending on the wash machine, its options and wash programme, and manages 100% of the water entering the pouring stage. It reduces the contamination of the water resulting from the wash process, removing odours in the wash facility. Furthermore, it improves the quality of the recycled water by decreasing the level of turbidity, organic matter and the amount of surfactants in the water. This equipment offers Smartwash-capable connectivity.



Hydrocarbon separator

System for treating water before it is released or reused, the main function of which is to remove hydrocarbons, oils and greases entrained in the wash process that have been mixed with the water. Our hydrocarbon separator with coalescing cell and automatic shutter is Class I compliant with EN 858 (<5 mg/L) and achieves 94% reduction in hydrocarbons in treated water, thus retaining traces from fuel and vehicle engines.

Reference	Equipment
5060000	HYDROCARBIDE SEPARATOR 15L/S
5060100	HYDROCARBIDE SEPARATOR 3 L/S
5060200	HYDROCARBIDE SEPARATOR 6 L/S
5060300	HYDROCARBIDE SEPARATOR 10 L/S
5WSH1000	HYDROCARBIDE SEPARATOR 15L/S



High-flow, high-salinity osmosis equipment (4DA6000)

It is characterised by its ability to handle salinity waters up to 8000 ppm TDS and flexible production flow with extensions from 1 to 4 membranes, and can produce from 4 to 22 m³/d. Stainless steel membrane containers, built-in conductivity controller and components for high pressure work.

CONNECTIVITY

In a digital world, it goes without saying that your car wash facility should be digital too. Thanks to the connectivity system developed by ISTOBAL, we can boost the profitability of your business. Thanks to the increased uptime of your machines, advanced maintenance and management services and access to all your equipment data, you can enjoy full control of your facility and offer the best possible service:

- > **Improving machine uptime.**
- > **Improving the response time of our technical service.**
- > **Improving the repair time offered by our technical service.**

In addition, a connected facility is more energy-efficient and cost-effective, making it the best possible option to be a little more sustainable every day.



And much more:

- ✓ Machine telemetry and IOT data reporting.
- ✓ Real time error and warning reporting.
- ✓ Statistics reports.
- ✓ Economic accountants reporting.
- ✓ Washing history reporting.
- ✓ Control of consumptions.

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Reliable, robust and easy to use

Our range includes a line of payment systems where technology meets user experience, producing one of the most cost-effective options on the market.

ISTOBAL's payment terminals meet the latest market demands and stand out due to their reliability, robustness and ease of use. Our terminals are totally flexible and universal, they can adapt to all markets and streamline purchasing process thanks to the most efficient payment methods worldwide.



Codec

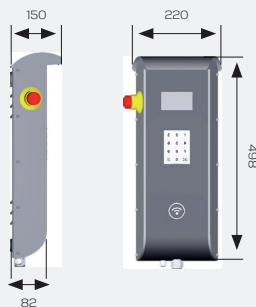
- > The design of the CODEC payment terminal is elegant and yet simple.
- > The stainless steel components increase durability and resistance in outdoor washdown environments (potentially in harsh weather conditions).
- > There are two installation options – standing and wall-mounted – users can easily adapt the terminal to different spatial configurations.
- > Users can activate the wash options using a bar code, QR code, digital input and/or loyalty card. Some outlets also accept payments by bank card (check availability with the sales department).



Standing terminal



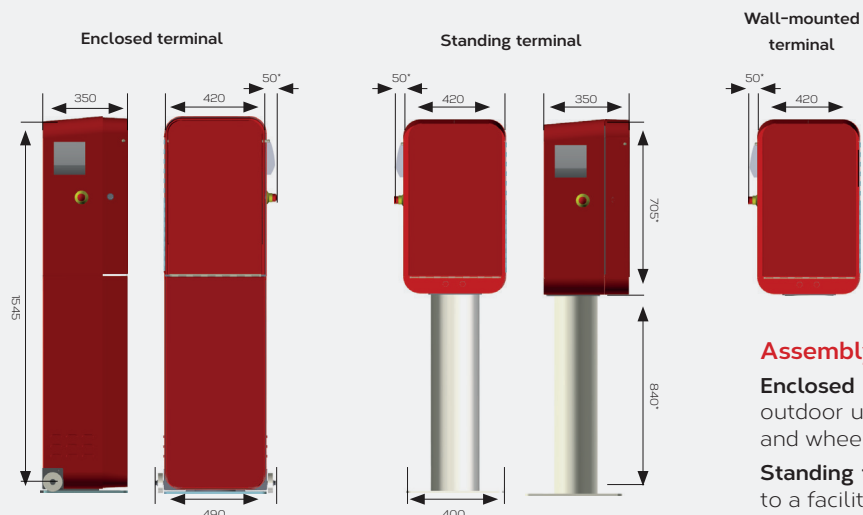
Wall-mounted terminal



PAYMENT TERMINALS

Connect-a

- The CONNECT-A payment terminal continues to come in a simple customisable design with a range of available colours.
- The terminal is manufactured in galvanised and powder-coated sheet metal for durability and strength in washdown and outdoor environments (potentially in harsh weather conditions). In addition, options such as the lock and the safety door are available, offering protection against vandalism.
- There are three installation options: enclosed, standing and wall-mounted, users can easily adapt the terminal to different spatial configurations.
- Unlike the CODEC, users can pay with coins, tokens and/or various bank card options. Furthermore, the terminal can include a communications system to help settle any queries.

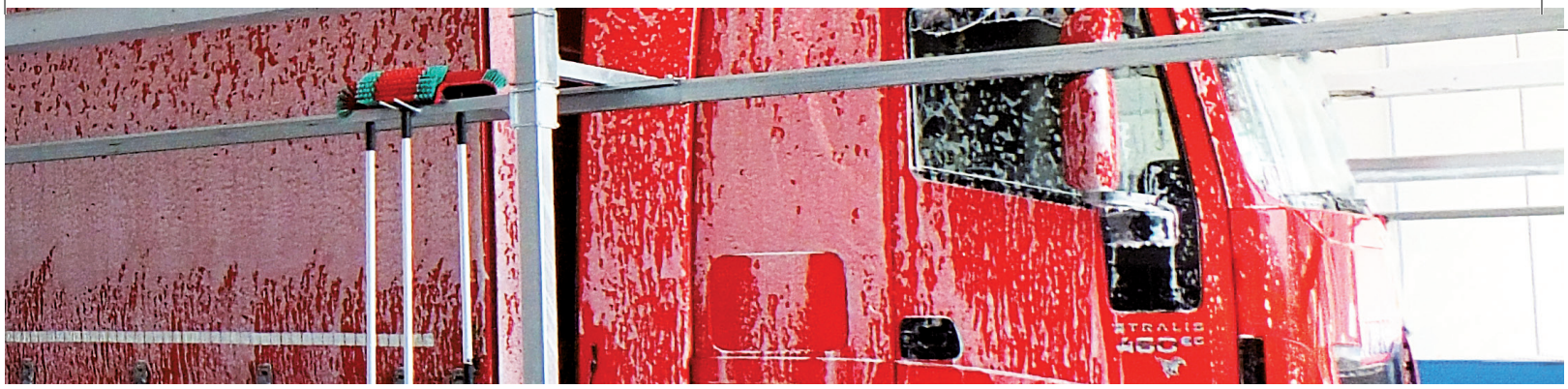


Assembly:

Enclosed terminal: The most robust option for outdoor use. Includes an optional vandalproof door and wheels for transport.

Standing terminal: can be installed at the entrance to a facility for easy user access.

Wall-mounted terminal: The ideal choice for enclosed facilities with a support wall.



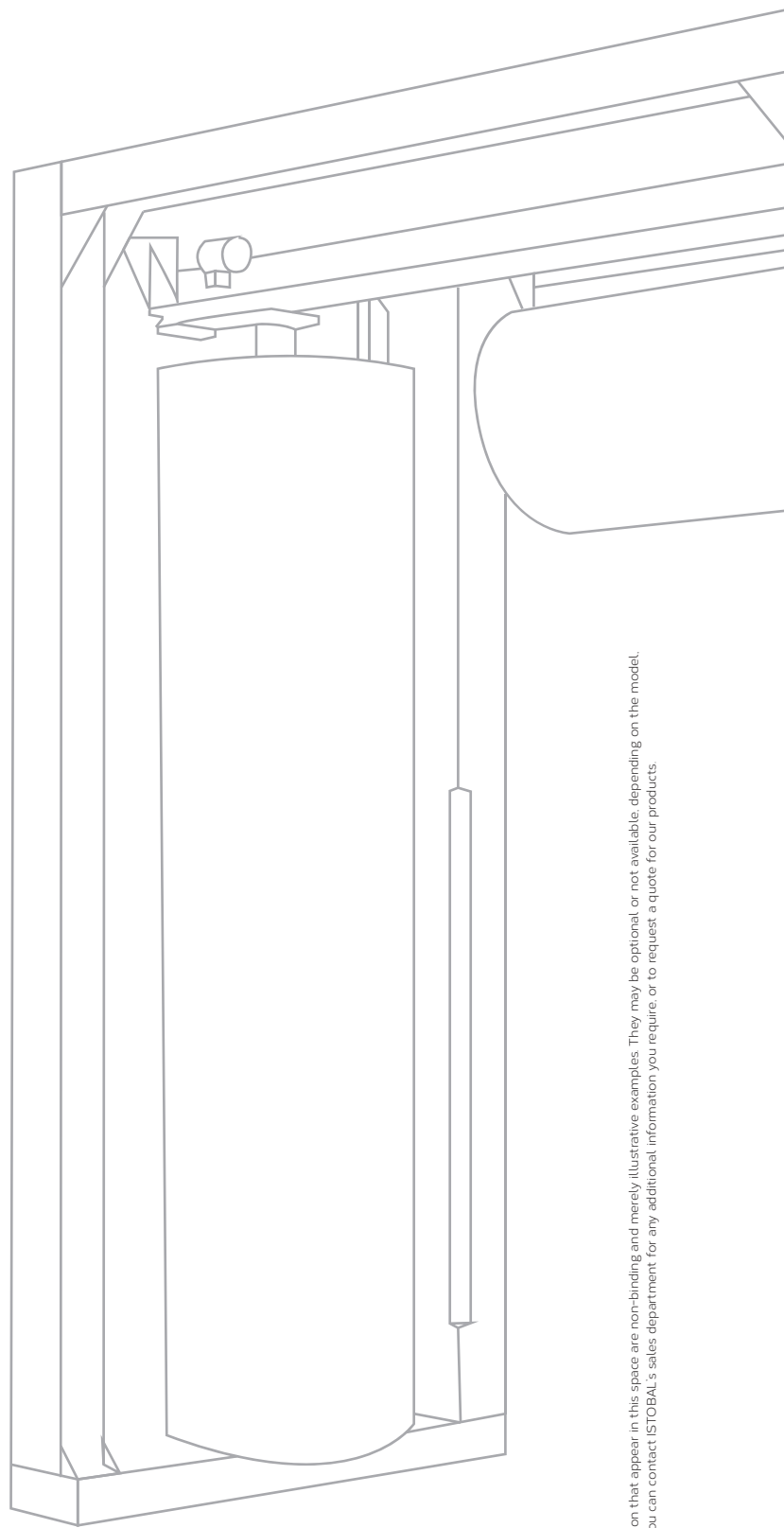
Codec

- > 4.3" High-Contrast LCD Display.
- > INOX code numeric keypad.
- > Payment systems for bank and mobile cards.
- > Barcode readers or loyalty cards.
- > Pedestal or wall mounting.
- > Robustness and protection against adverse weather and vandalism.
- > Cost-effective and easy to amortise.
- > Coded operation possible, no connection to Terminal Shop.



Connect-a

- > 4.3" High-Contrast LCD Display.
- > INOX code numeric keypad.
- > Coin and/or token validator.
- > Various payment systems for bank card and mobile.
- > Optional barcode reader and loyalty cards.
- > Cabinet, pedestal or wall mounting.
- > Wide variety of colours.
- > Resolution of queries via the communicator option.
- > Possibility to incorporate control equipment in cabinet version.



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