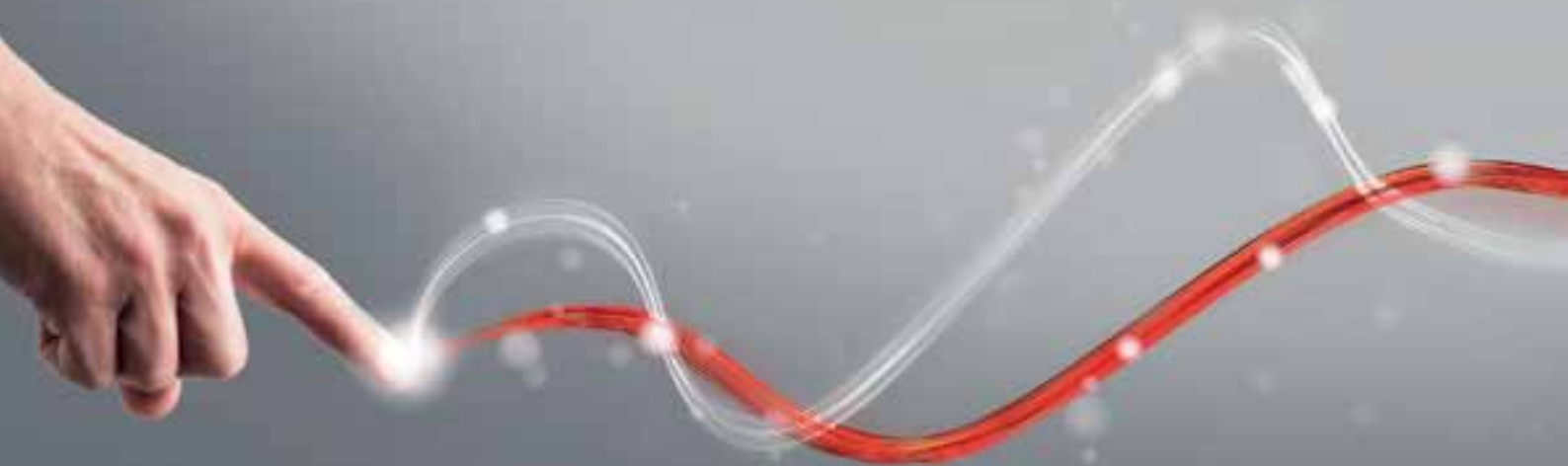




Empowered by
U-LINK



New power
in **your** hands.



Be ahead

Welcome to
the innovative
U-Link world!

What is U-Link?

The innovative technology that gives you new power

U-Link, Universal Link is an exclusive Bft platform for creating technological ecosystems, allowing communication with all access automation devices of any brand. So you save time and can control everything with ease, without any worries.

It is intuitive

Easy to install and use

It is scalable

Allows an unlimited number of devices to be added

It is flexible

Allows the creation of groups of interconnected products

It is practical

Works with or without a web connection

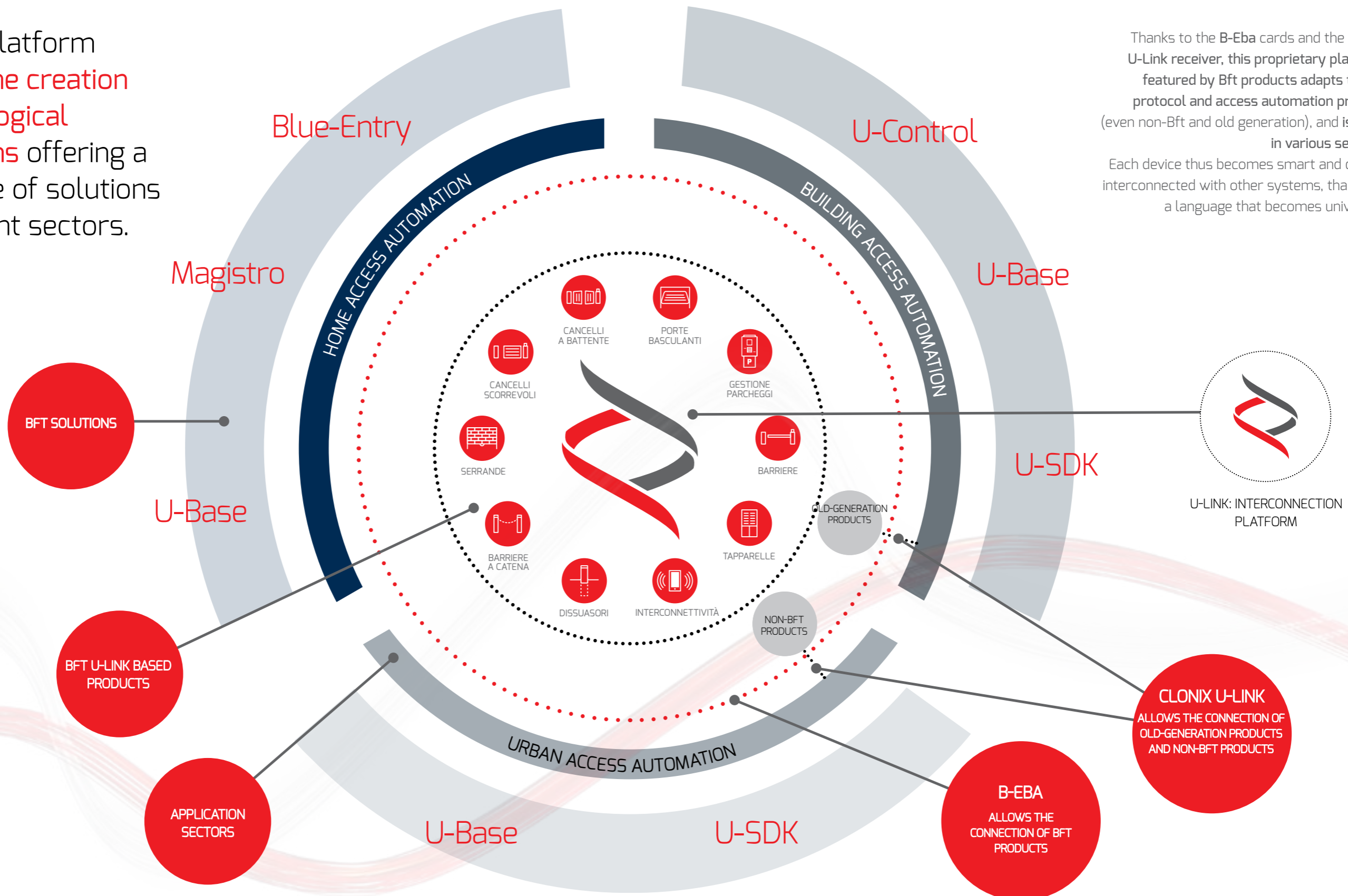
It is functional

Parameters can be controlled remotely via dedicated applications

All in one scheme: discover this amazing technology

A unique platform
allowing the creation
of technological
ecosystems offering a
wide range of solutions
for different sectors.

Thanks to the B-Eba cards and the Clonix U-Link receiver, this proprietary platform featured by Bft products adapts to any protocol and access automation product (even non-Bft and old generation), and is used in various sectors. Each device thus becomes smart and can be interconnected with other systems, thanks to a language that becomes universal.



Bft technologies that allow interconnection

The B-eba expansion card and Clonix U-Link receiver complete the exclusive Bft platform.

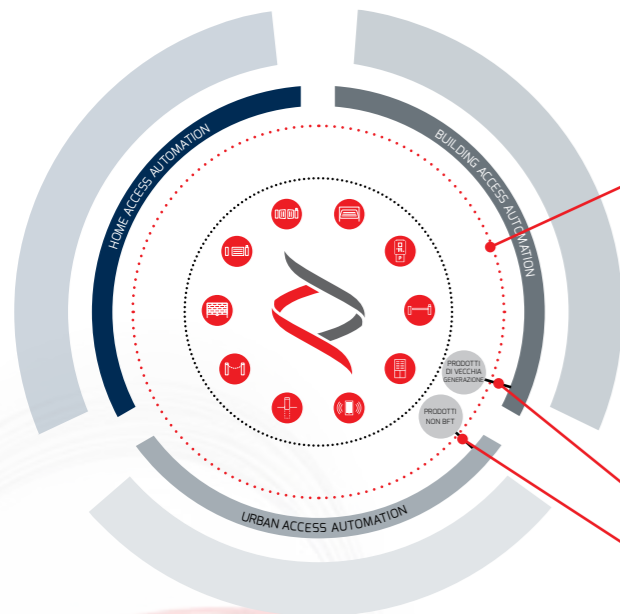
Two products that allow U-link to be connected to Bft and non-Bft operators.



B-eba

A direct line with your operators.

B-eba expansion cards allow the connection of external devices, such as PCs, smartphones and tablets, to a Bft operator or Clonix receiver, or the connection of several Bft products in a U-Link network. These accessories integrate with U-Link technology and Bluetooth, Z-Wave, TCP/IP protocols, as well as the RS485 serial connection. A device that fully translates what Bft intends as interconnectivity.



Universal. A word that fully represents the essence of U-Link. This platform is able to create technological ecosystems, by connecting Bft products to your smartphone, thanks to B-eba card. Clonix U-Link, on the other hand, allows U-link to be integrated with all operators, regardless of whether they are Bft or non-Bft. Two innovations that make U-link suitable for any configuration, solution and need. A truly boundless platform.



Clonix U-Link

Allows the connection of old-generation products or non-Bft products to U-Link systems.

Old-generation Bft operators or a product belonging to other brands: can they be connected to U-link? Yes, thanks to the Clonix receivers. Accessories that know no limits.



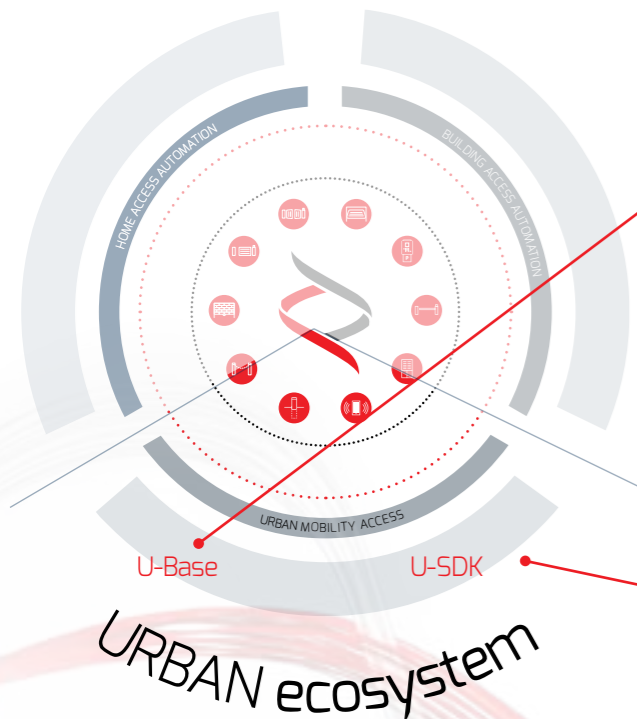
-
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 - U-Base 2 | Software to control everything. pg_14
 - U-SDK | The products communicate with each other pg_16
 - All the solutions of the Urban Access Automation world pg_18
 - All the products of the Urban Access Automation world pg_52
 - Team up with us: Be Ahead! pg_64
-

s u m m a r y

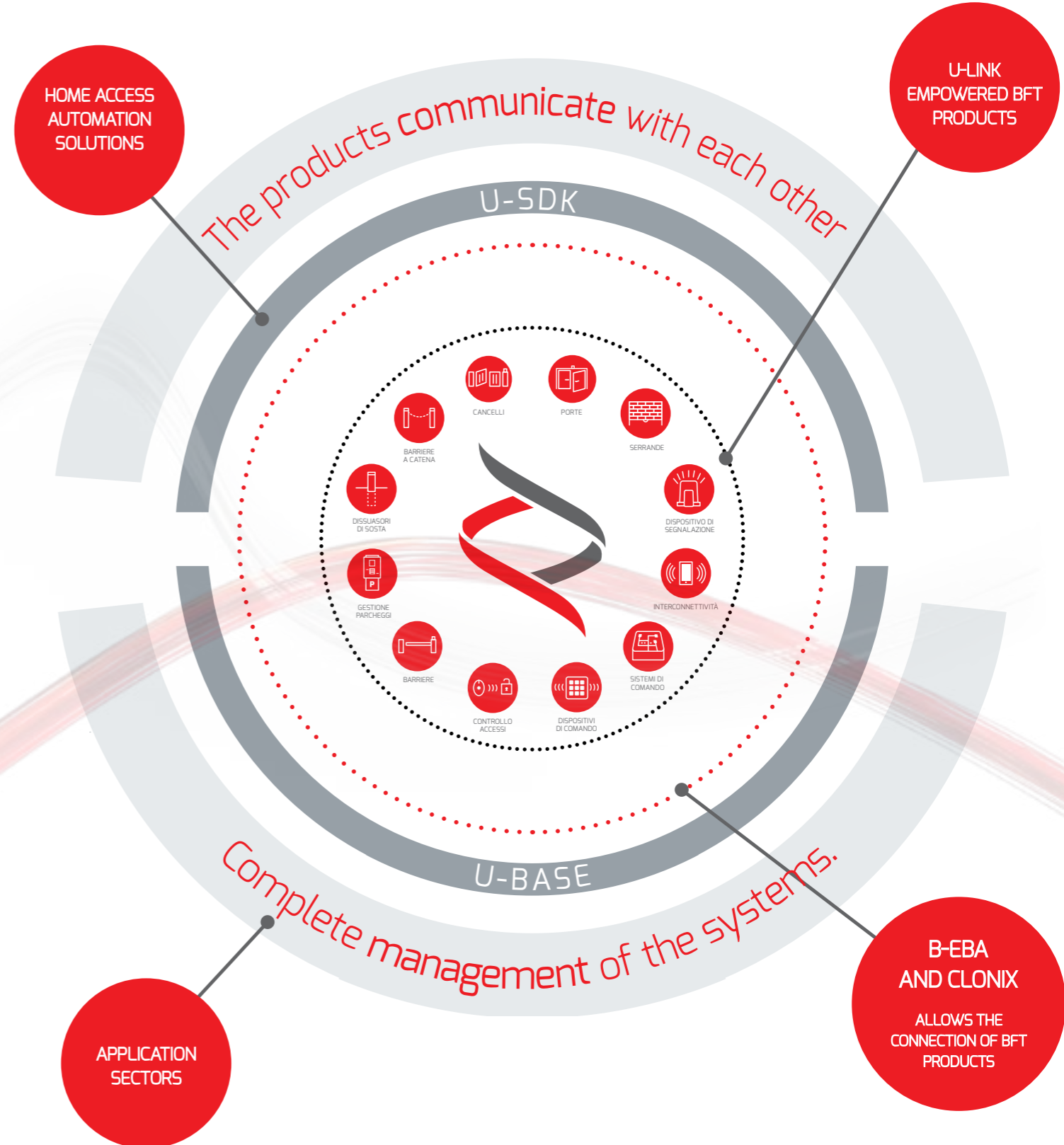
Urban Access Automation: doors open to innovation.

Urban traffic management reaches new frontiers.

Advanced parking systems, barriers and bollards integrated through the use of software dedicated to Urban Traffic Management: this is the result of the most innovative research from Bft.



With a high level of interconnectivity between the products installed, the solutions presented in this section are also adaptable to the most simple as well as multi-storey parking areas and the active management of vehicle traffic. Contexts that require maximum professionalism and the top performance of the Bft range. In addition, each solution offers dedicated services provided by the company to help customers before, during and after installation. The Bft Urban Mobility Access world consists of a high tech range of products that are highly customisable according to needs.



U-Base 2:

software to install, easily and comfortably carry out maintenance and identify any malfunction of U-link compatible operators.

Software to control everything.

Designed according to the installer's specific needs for the management and simplified maintenance of systems, the innovative U-Base 2 software features an intuitive and immediate user interface. It can operate on-line, updating data directly on connected systems or in off-line mode by operating on the information in the local database of the device on which it is installed. The B-Eba Bluetooth Gateway accessory also allows the installer to locally connect wirelessly to Bft control units and receivers (U-Link compatible) using Bluetooth technology and easily manage or reconfigure them without having to act on the operator controls. A process that can also be done via the Internet, therefore remotely, thanks to B-Eba TCP/IP. In addition to installation and maintenance, troubleshooting is also done very conveniently, minimising system running costs and quickly checking its status.

U-SDK

Allows the integration of Bft automatic barrier operators inside Urban Traffic Management software.

The products communicate with each other.

A programme which, for simplicity, is comparable to a driver for normal PC devices. Via U-SDK, the system integrators can make other brands of home automation systems communicate with Bft products interconnected in a U-link network. With an extremely simple syntax, this software translates external commands into the U-link language. Every command can be interpreted by the Bft cards, which can at the same time produce information on the system status.



-
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 - MULTI-STOREY Local management pg_22
 - MULTI-STOREY Remote management of several systems pg_24
 - CAR PARK NETWORK Multi-user remote control pg_26
 - MOTORWAY TOLL-GATE An impact-resistant boom pg_28
 - AIRPORT Maximum safety in the airport pg_30
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 - CAMPER AREA Booking via the Web pg_34
 - SUPERMARKET Many needs in a single car park pg_36
 - HISTORIC CENTRE Parking in the centre pg_38
 - BOAT RAMP Ramp for cars and boats pg_40
 - ACCESS RAMP Alternating one-way pg_42
 - "CAGE" EXIT Allows only one vehicle out at a time pg_44
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-

S u m m a r y

All the solutions of the Urban Access Automation world

MULTI-STOREY

Interconnection with a click

The new Sinua parking system can be controlled, managed and diagnosed remotely or locally.

The new Sinua parking system can be controlled remotely by Janica software with a Tcp/IP connection. The server, integrated with the B-EBA GATEWAY TCP/IP accessory, manages the car park, ensuring communication with the barriers via U-link. The operator can then do a complete diagnosis of the system and analyse the status of the automation. The new Sinua parking system, featuring TCP/IP wiring, ensures more signal, faster communication and system management via the web.



IDENTIFIED SYSTEM

- 3 SINUA-I
- 3 SINUA-U
- 4 SINUA-P CC automatic pay station
- 2 ANPR reader
- 1 Client+Server POS
- 6 MAXIMA ULTRA barriers
- 6 Vehicle detector loops
- 6 Safety loops
- 1 B-EBA TCP-IP GATEWAY

ADVANTAGES

- With the U-link protocol and the B-eba TCP-IP the operator has complete control of all components of the parking system, in being able to do the complete diagnostics and modification of the operating parameters even remotely thanks to the wired system in TCP-IP network.



Sinua I/U Entry/exit column

- TCP/IP wired system
- RFID proximity reader
- 2D fanfold ticket reader-writer



Sinua P CC Automatic pay station

- TCP/IP wired system
- 2D fanfold ticket reader-writer
- Credit card reader
- Digital intercom



Client and Server POS

PC for manual pay station management with Windows 7 Professional operating system licence and Janica software, pc server management with windows server 2012 licence and database



Single space management system

Monitoring of vacant parking space with ultrasound sensor



Maxima Ultra barrier

- barrier for very intensive use
- useful passage up to 5 m



ANPR system

HD camera for reading the number-plate



B-EBA TCP-IP GATEWAY

Card for connection to the U-link system via TCP-IP network

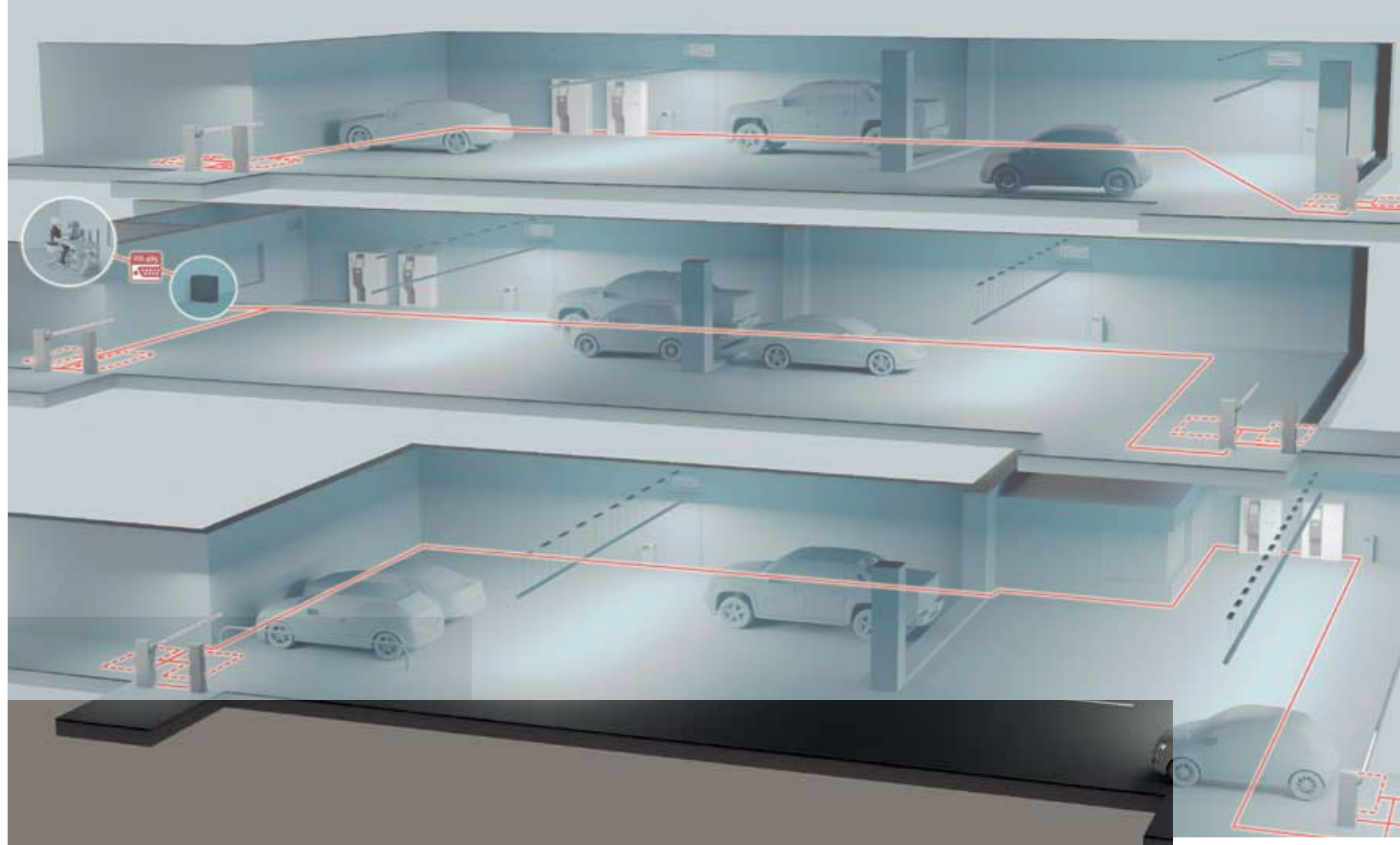
MULTI-STOREY

Local management

THE new Sinua parking system can be controlled, managed and diagnosed.

The new Sinua parking system can be controlled by Janica software, locally with an RS 485 connection.

The server, integrated with the accessory, manages the car park, ensuring communication with the barriers via U-link. The operator can then do a complete diagnosis of the system and analyse the status of the automation. The new Sinua parking system, featuring TCP/IP wiring, ensures more signal, faster communication and system management via the web.



IDENTIFIED SYSTEM

- 3 SINUA-I
- 3 SINUA-U
- 4 SINUA-P CC automatic pay station
- 2 ANPR reader
- 1 Client+Server POS
- 6 MAXIMA ULTRA barriers
- 6 Vehicle detector loops
- 6 Safety loops
- 1 B-EBA 485 GATEWAY

ADVANTAGES

- With the U-link protocol the operator has complete control of all components of the parking system, in being able to do complete diagnostics and modification of the operating parameters.



Sinua I/U Entry/exit column

- TCP/IP wired system
- RFID proximity reader
- 2D fanfold ticket reader-writer



Sinua P CC Automatic pay station

- TCP/IP wired system
- 2D fanfold ticket reader-writer
- Credit card reader
- Digital intercom



Client and Server POS

PC for manual pay station management with Windows 7 Professional operating system licence and Janica software, pc server management with windows server 2012 licence and database



Single space management system

Monitoring of vacant parking space with ultrasound sensor



Maxima Ultra barrier

- Barrier for very intensive use
- Useful passage up to 5 m



ANPR system

HD camera for reading the number-plate



B-EBA TCP-IP GATEWAY

Card for connection to the U-link system via TCP-IP network

MULTI-STOREY

Remote management of several systems

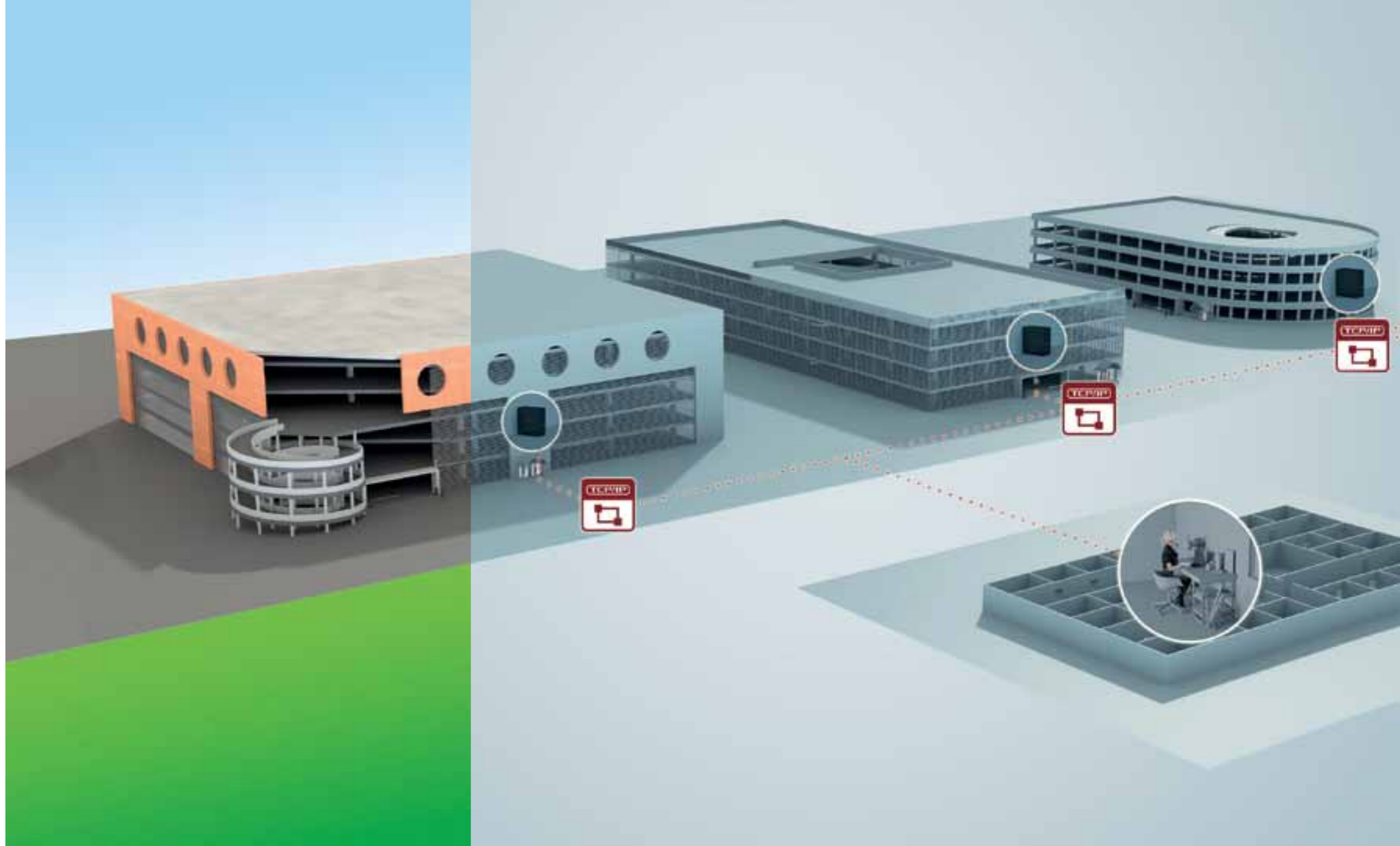
IT can control, manage and diagnose multi-systems, connected in a network.

The new Sinua parking system can be controlled by Janica software remotely through a Tcp/IP connection or locally with an RS 485 connection.

The server, integrated with the B-EBA GATEWAY accessory (485 or TCP/IP depending on the type of connection), manages the car park, ensuring communication with the barriers via U-Link. The operator can then do a complete diagnosis of the system and analyse the status of the automation. The new Sinua parking system, featuring TCP/IP wiring, ensures more signal, faster communication and system management via the web. Therefore the operator can simultaneously control several Sinua parking systems remotely.

IDENTIFIED SYSTEM

- 4 Client + Server Pos
- 3 B-EBA TCP-IP Gateway
- 3 SINUA-I
- 3 SINUA-U
- 3 SINUA-P CC
- 6 GIOTTO 30-S BT



ADVANTAGES

- Thanks to the TCP-IP wiring, the operator can manage several systems included in the same network and, thanks to the U-Link protocol, modify the operating parameters of components of the various systems with a click, even many km away



Sinua I/U Entry/exit column

- TCP/IP wired system
- RFID proximity reader
- 2D fanfold ticket reader-writer



Sinua P CC Automatic pay station

- TCP/IP wired system
- 2D fanfold ticket reader-writer
- Credit card reader
- Digital intercom



Client and Server POS

- PC for manual pay station management with Windows 7 Professional operating system licence and Janica software, pc server management with windows server 2012 licence and database



Giotto 30-S BT barriers

- barrier for intensive use
- useful passage up to 3 m
- opening time 2.5 sec
- impact reaction: reversible



B-EBA TCP-IP GATEWAY

- card allowing connection to the u-link system via TCP-IP network

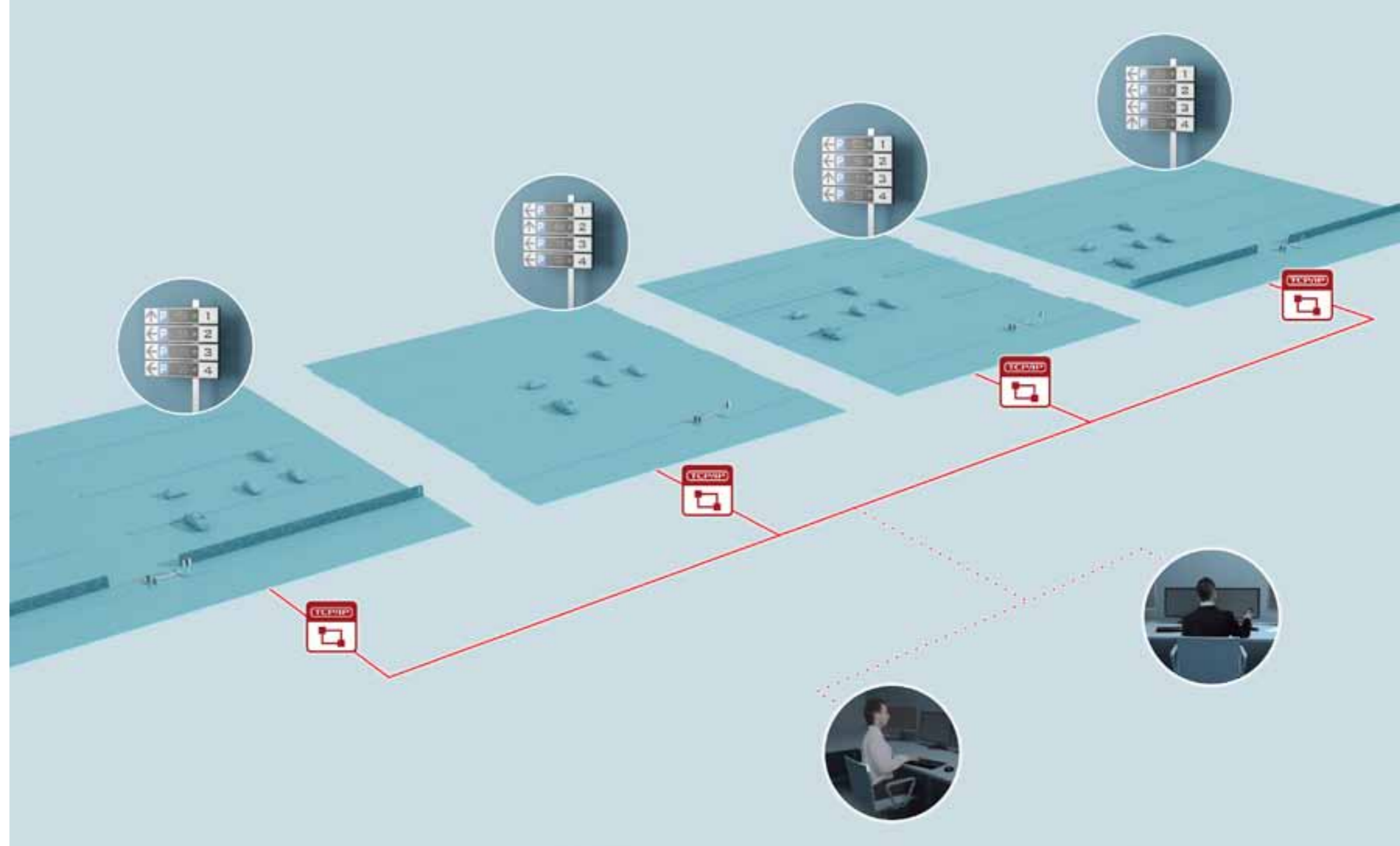
NETWORK OF CAR PARKS

Multi-user remote control

The system can be managed via the web, through the TCP-IP connection of all components of the Sinua parking system.

This also allows the simultaneous management of multi users in several systems. For example, a number of parking areas can be managed by a municipality and a private agency at the same time. The network built thanks to the U-link communication protocol also allows the vacant spaces to be displayed through special panels, indicating the spaces remaining in all the parking areas belonging to the network.

In this way customers can know all the vacant spaces available in parking areas even kilometres away.



IDENTIFIED SYSTEM

- 4 LED indicator panel
- 4 B-EBA TCP-IP
- 4 Client + Server POS



LED indicator panel

- Integratable with traffic light
- Possibility of integrating up to 4 panels for managing different areas



B-EBA TCP-IP GATEWAY

- card allowing connection to the U-link system via TCP-IP network



Client and Server POS

- PC for manual pay station management with Windows 7 Professional operating system licence and Janica software, pc server management with windows server 2012 licence and database

ADVANTAGES

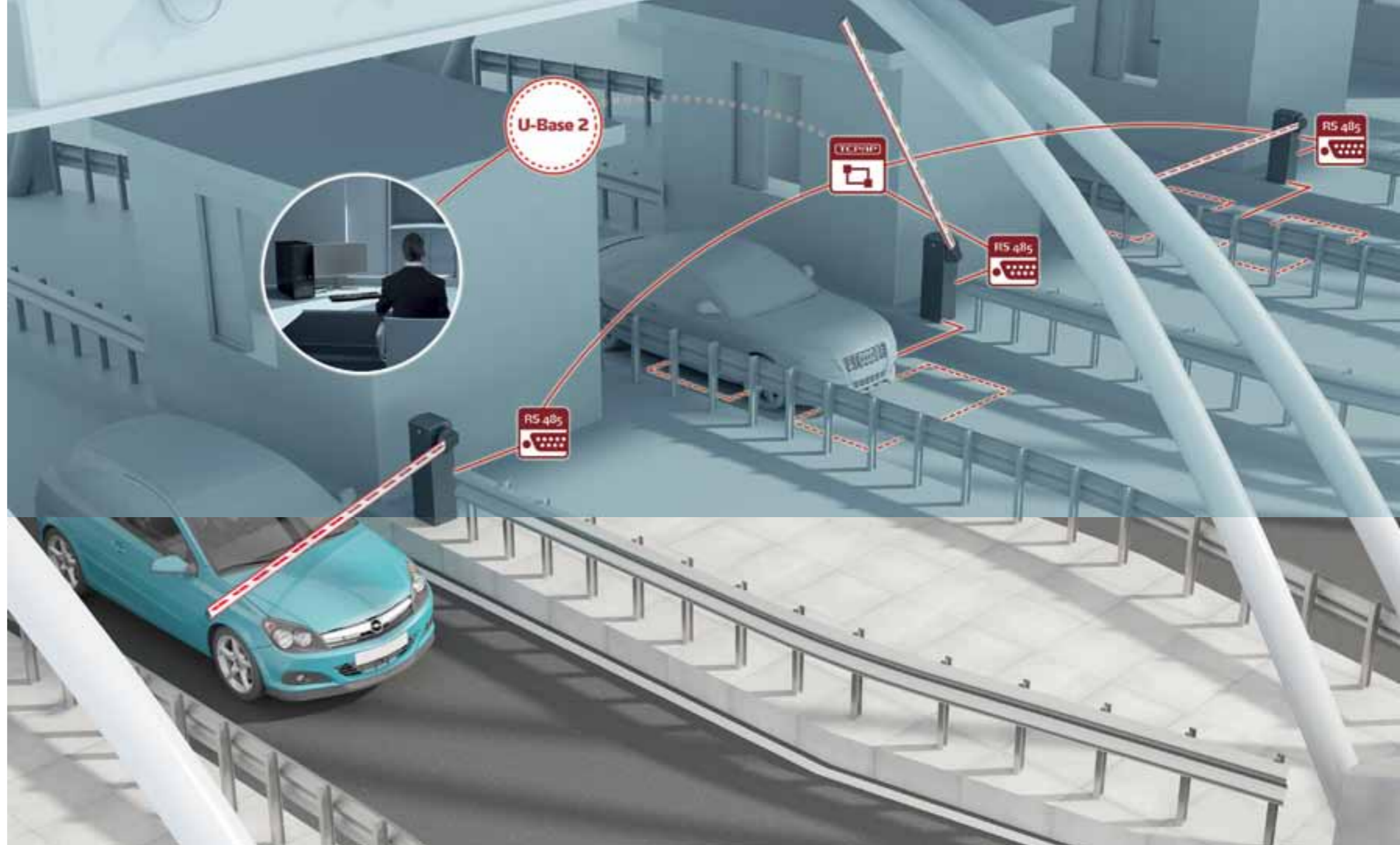
- The U-Link protocol supported by a communication in TCP-IP network allows the communication of data between the indicator panels, in order give the customer an overview of available spaces also in other car park systems.
- The network allows the supervision of the systems of several public or private users.

MOTORWAY TOLL-GATE

A boom that withstands impacts

Faults in the barriers are often due to accidental impacts against the boom. Hence the Bft solution that withstands impacts and quickly returns operational.

Thanks to the hinged boom release mechanism, the barrier minimises damage to the device in case of impact, thus allowing rapid reinstatement of the automation. The entire toll-gate barrier system is controlled remotely from a single computer with the U-BASE 2 software which allows prompt and precise diagnostics of the barriers included in the U-Link network.



IDENTIFIED SYSTEM

- 1 U-BASE 2
- 1 B-EBA TCP/IP
- 3 B-EBA 485
- 3 Maxima Ultra 35
- 3 OMEGA ATM FRA U35
- 3 ATM30
- 3 RME2
- 6 Safety loops



U-BASE 2

Management and diagnostics software for automation systems on U-Link networks



Maxima Ultra 35

- 230V electromechanical barrier for very intensive use
- Up to 20000 op/day (3m)
- Inverter
- Three-phase induction motor.
- Compatible with U-Link protocol



OMEGA ATM FRA U35

Fracture system clamping for Maxima Ultra 35 with ATM bar



B-EBA TCP/IP

Expansion module for inclusion of Maxima Ultra barriers in TCP/IP network

ADVANTAGES

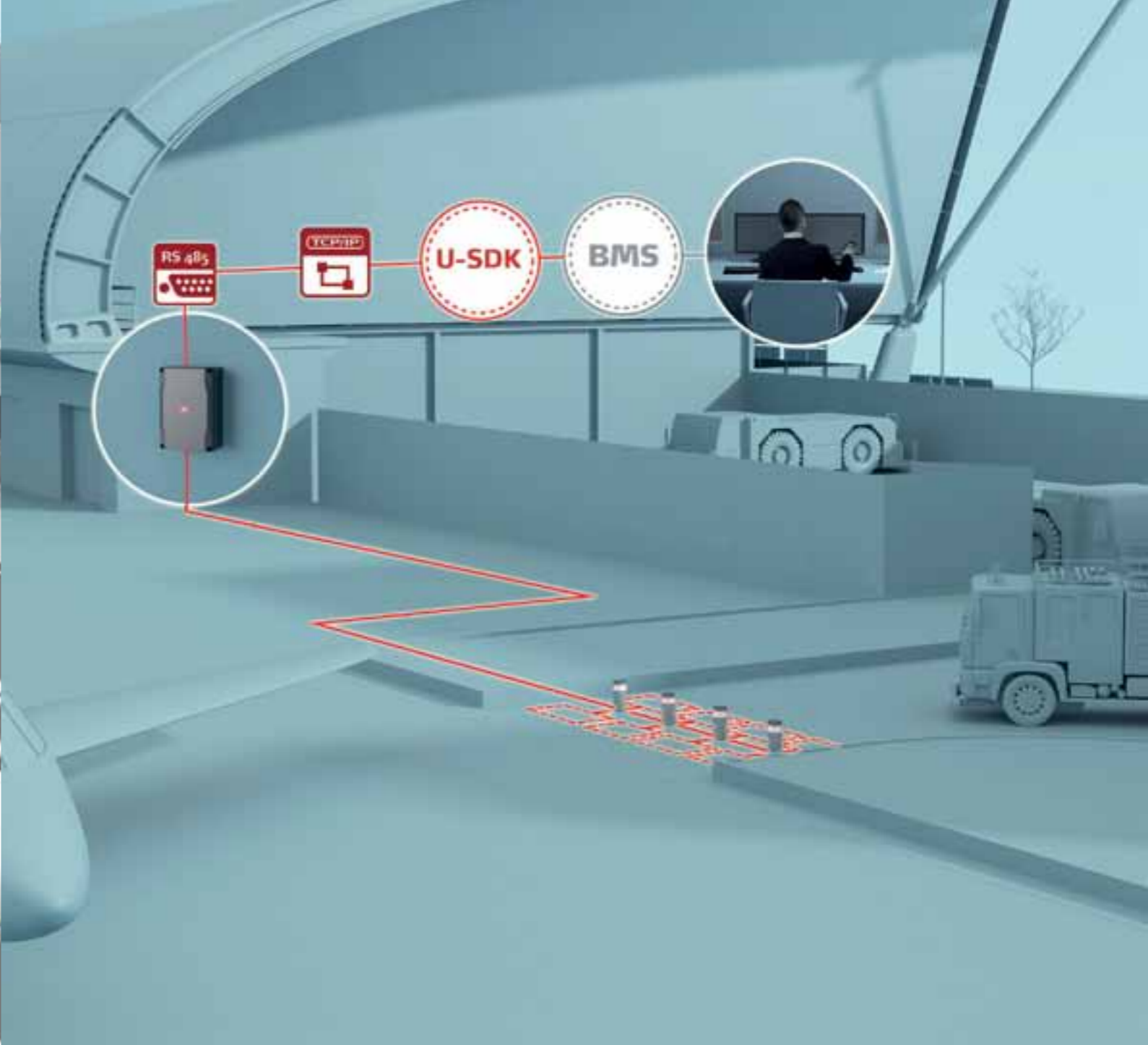
- The boom will not be damaged in case of impact
- Quickly resettable system
- Centralised remote control
- Barrier diagnostics

AIRPORT

Maximum safety in airports

To ensure maximum safety on runways or landing strips and in all those large areas closed to the public inside an airport, Bft offers Pillar B bollards.

These devices are used to control accesses on large areas, guaranteeing maximum security at all times. The caps have high-visibility LED lights and there is also a version of the product in stainless steel for maximum resistance to atmospheric agents. As well as offering high breaking resistance, the Pillar B can also be connected via Perseo Cbe to the B EBA TCP/IP Gateway card and managed centrally by a BMS (Building Management System).



IDENTIFIED SYSTEM

- 1 U-SDK
- 1 B-EBA TCP/IP
- 1 B-EBA RS485
- 4 PILLAR B 275/600.6C L
- 1 Perseo CBE
- 4 RME2
- 8 Safety loops

ADVANTAGES

- Safety system integratable in a BMS
- Centralised control
- High safety



U-SDK

Software for integrating the U-Link protocol in external systems and software



B-EBA TCP/IP

Expansion module for inclusion of control unit in TCP/IP network



Perseo CBE

- New control unit for bollards
- Controls up to 4 bollards
- Compatible with U-Link protocol



Pillar B

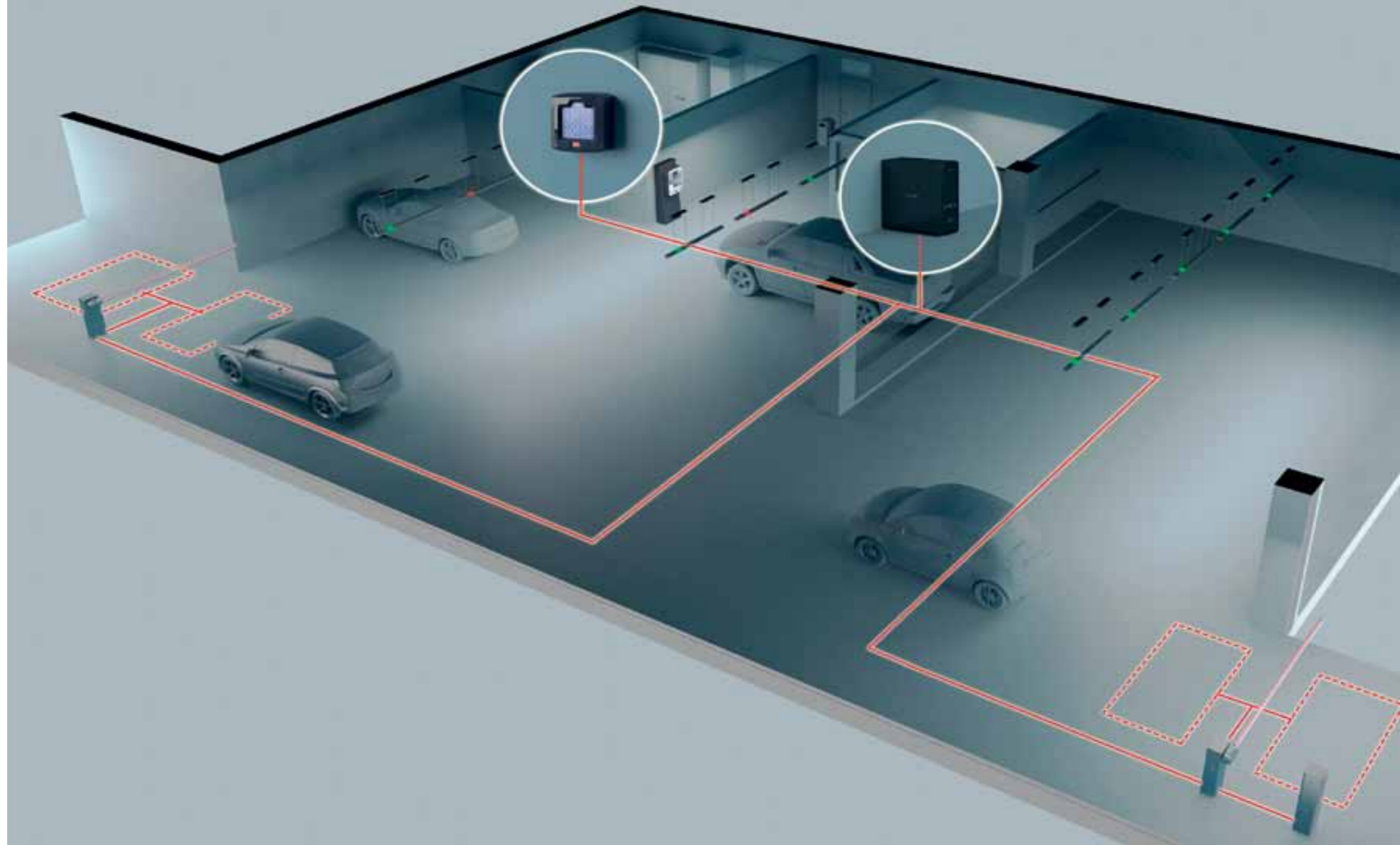
- Hydraulic bollard
- Suitable for intensive use
- High breaking resistance

ACCESS INTEGRATION

A ticket for all access points

By integrating the Espas 30 parking system and Axxedo, controlled by Janica software, just a ticket is needed to open all gates.

With this solution, the ticket issued by the 30 Espas system on accessing the car park allows the customer to enter limited access areas: just type the ticket code on the Axxedo Q.BO DC reader and Axxedo Stand Alone will open the gate of the area dedicated only to car park users. The entire system is controlled by a single computer on which the Janica software for managing the parking system is installed.



IDENTIFIED SYSTEM

- 1 Espas 30 I
- 1 Espas 30 U
- 1 30 P CC automatic pay station
- 1 Vacant space identification system
- 1 Client+Server POS
- 2 Giotto 30-S BT barriers
- 2 Vehicle detector loops
- 2 Safety loops
- 1 Axxedo Stand Alone
- 1 Axxedo Q.bo DC

ADVANTAGES

- The customer can use the same ticket for payment of the parking fee and also to have access to restricted areas of the car park.



ESPAS 30 I/U
Entry/exit column

- Wired system
- RFID proximity reader
- 2D fanfold ticket reader-writer



ESPAS 30 P CC
Automatic pay station

- Wired system
- 2D fanfold ticket reader-writer
- Credit card reader
- Digital intercom



30S BT Giotto barrier

- Barrier for intensive use
- useful passage up to 3 m
- Opening time 2.5 sec
- Impact reaction: reversible



BC bonus on-line automatic validator and POS Server

- Ticket barcode reading device for the allocation of bonus time or money
- RS485 interface
- POS server: manual payment station with integrated server



Single space management system

- Monitoring of vacant parking space with ultrasound sensor



Axxedo Stand Alone

- One in/one out configurable Master-slave device



Axxedo Q.bo DC

- Capacitive keypad with proximity reader 125KHz
- Integrated twilight sensor

CAMPER AREA

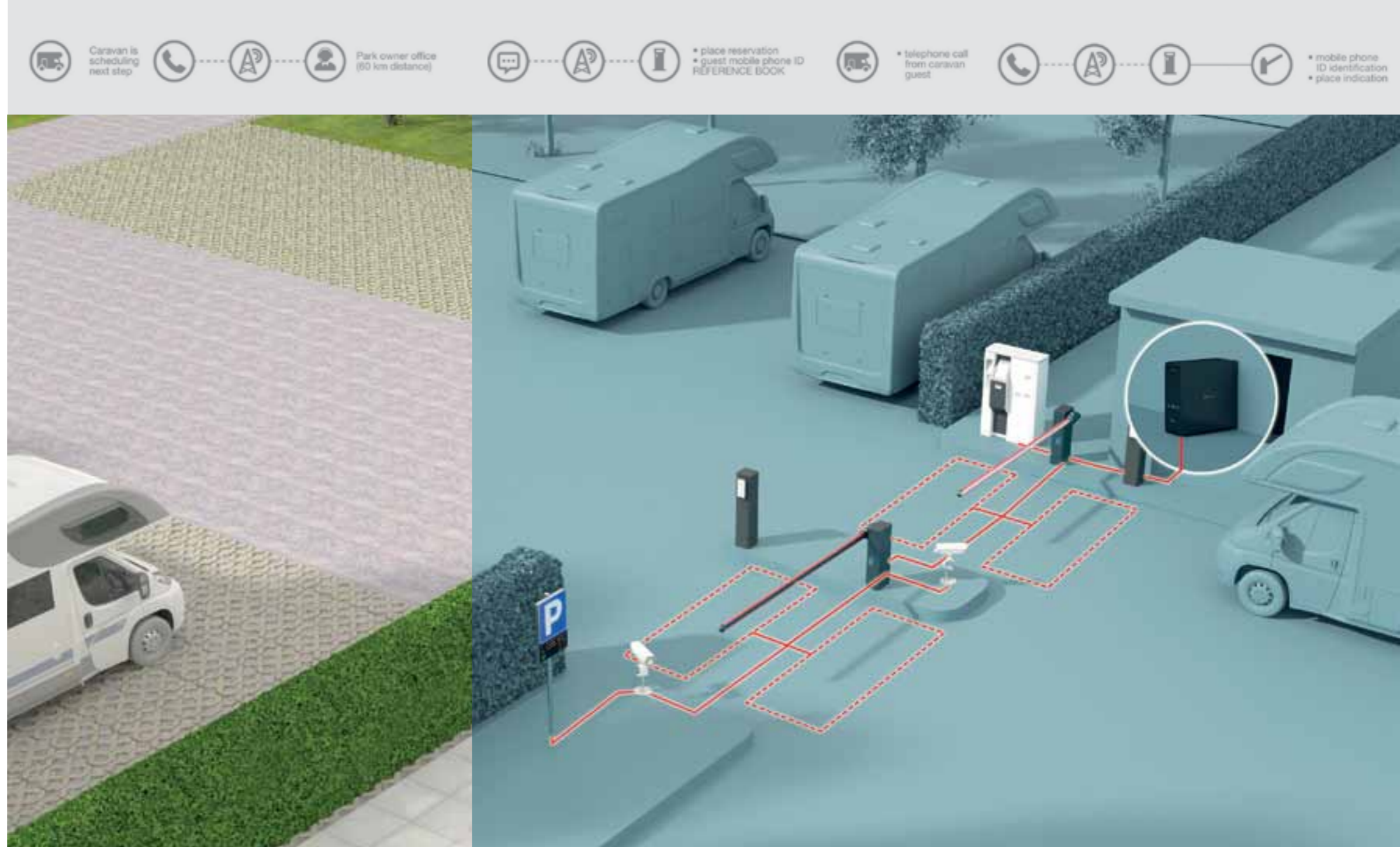
Booking via web

Especially in summer it is important that campers enter the dedicated area only if there are vacant spaces, and to give them the opportunity to book parking.

With a Janica system, integrated with a web parking space booking system, booking is immediate. Campers book the parking space by communicating their number-plate; the space is automatically taken off and the new value shown on the indicator panel. Campers arriving will have immediate access to the reserved parking area via reading of their number-plate.

ADVANTAGES

- Thanks to management of the parking system via the web, the operator can integrate web-based booking systems. The number-plate reading system enables the transit of plates registered at the time of booking, making access by the vehicle easy and immediate.



IDENTIFIED SYSTEM

- 1 SINUA-I
- 1 SINUA-U
- 1 SINUA-P CC automatic pay station
- 1 Indicator panel
- 1 Client + Server POS
- 2 Giotto 30-S BT barriers
- 2 ANPR reader (CCTV camera)
- 2 Vehicle detector loops
- 2 Safety loops

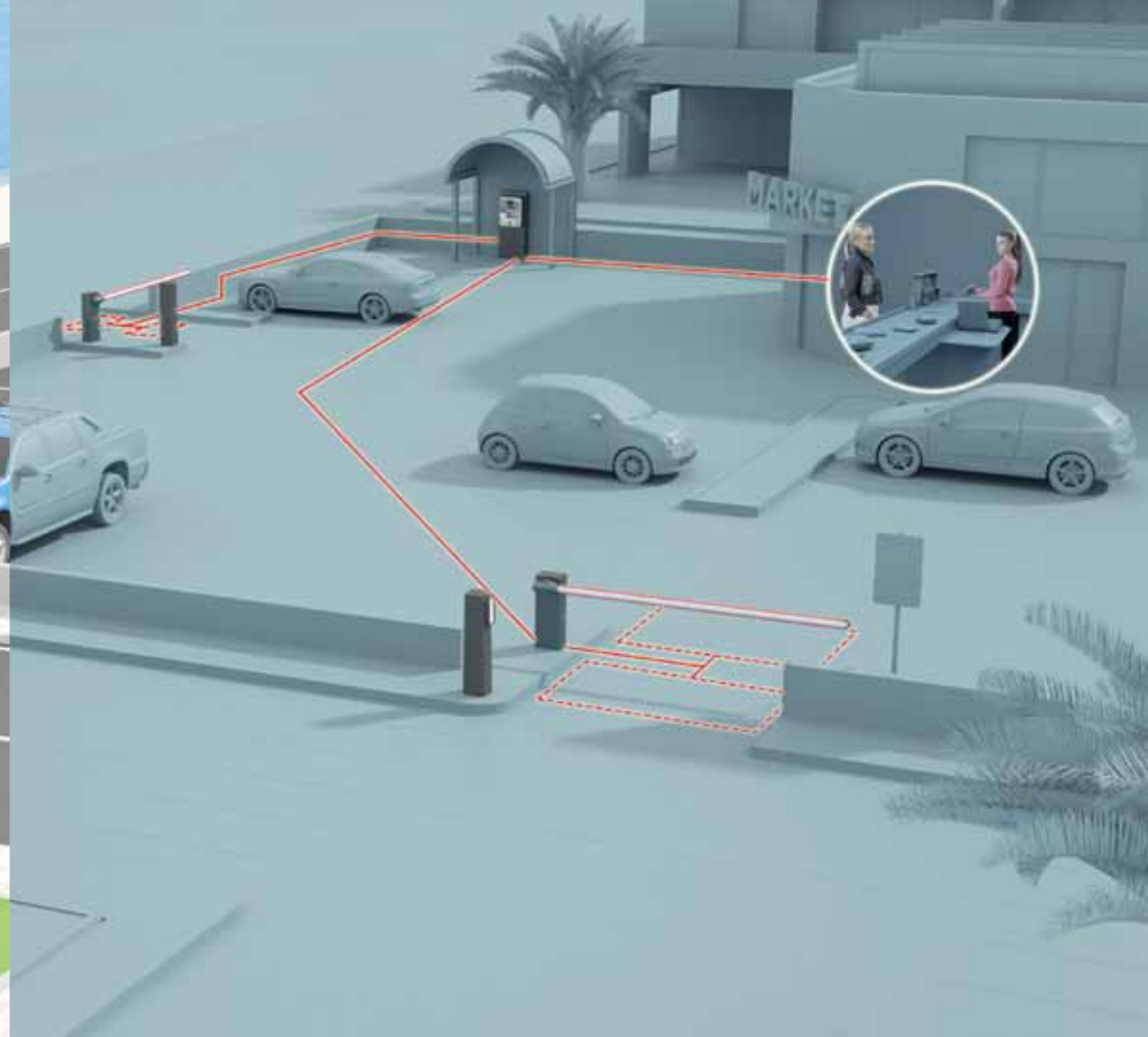
 <p>Sinua I/U Entry/exit column</p> <ul style="list-style-type: none"> - TCP/IP wired system - RFID proximity reader - 2D fanfold ticket reader-writer 	 <p>Sinua P CC Automatic pay station</p> <ul style="list-style-type: none"> - TCP/IP wired system - 2D fanfold ticket reader-writer - Credit card reader - Digital intercom 	 <p>Giotto 30-S BT barriers</p> <ul style="list-style-type: none"> - barrier for intensive use - useful passage up to 3 m - opening time 2.5 sec - impact reaction: reversible 	 <p>Client and Server POS</p> <p>PC for manual pay station management with Windows 7 Professional operating system licence and Janica software, pc server management with windows server 2012 licence and database</p>
 <p>ANPR system</p> <p>HD camera for reading the number-plate</p>	 <p>LED indicator panel</p>		

SUPERMARKET

Many different needs in the same car park

How to differentiate the charge for supermarket customers and occasional car park users?

The solution uses an Espas 30 P CC system connected to a BC BONUS ONLINE device and Espas 30 I and Espas 30 U columns at the car park entry and exit and connected to barriers and magnetic loops. With this solution, tickets are validated by the cashier through the BC BONUS OFFLINE validator for supermarket customers. For occasional users, who did use the point of sale, payment of the ticket is through Espas 30 P CC automatic pay station.



IDENTIFIED SYSTEM

- | | |
|--|--------------------------|
| 1 Espas 30 I | 1 POS Server |
| 1 Espas 30 U | 2 Indicator panel |
| 1 30P cc automatic pay station | 2 Vehicle detector loops |
| | 2 Safety loops |
| 1 BC bonus on-line automatic validator | 2 Giotto 30S Bt barriers |

ADVANTAGES
the different rates are programmed for:

EMPLOYEES: access via RFID badge reading by the proximity reader on the ESPAS 30I station.

USER CAR PARK: ticket payment at the ESPAS 30P automatic pay station.

SUPERMARKET CUSTOMERS: free parking; the ticket is validated by the cashier via the BC BONUS validator.

The car park is free of charge for the whole day for customers spending over € x.

For those who spent less than the fixed amount, exiting is free if occurring within one hour of issue of the supermarket receipt.



ESPAS 30 I/U
Entry/exit column

- Wired system
- RFID proximity reader
- 2D fanfold ticket reader-writer



ESPAS 30 P CC
Automatic pay station

- Wired system
- 2D fanfold ticket reader-writer
- Credit card reader
- Digital intercom



30S BT Giotto barrier

- Barrier for intensive use
- Useful passage up to 3 m
- Opening time 2.5 sec
- Impact reaction: reversible



BC bonus on-line automatic validator and POS Server

- Ticket barcode reading device for the allocation of bonus time or money
- RS485 interface
- POS Server: manual payment station with integrated server



Traffic-light panel

- Green red traffic light indicating "Vacant", "Full"
- 220V power supply
- Integratable via relay on entry station

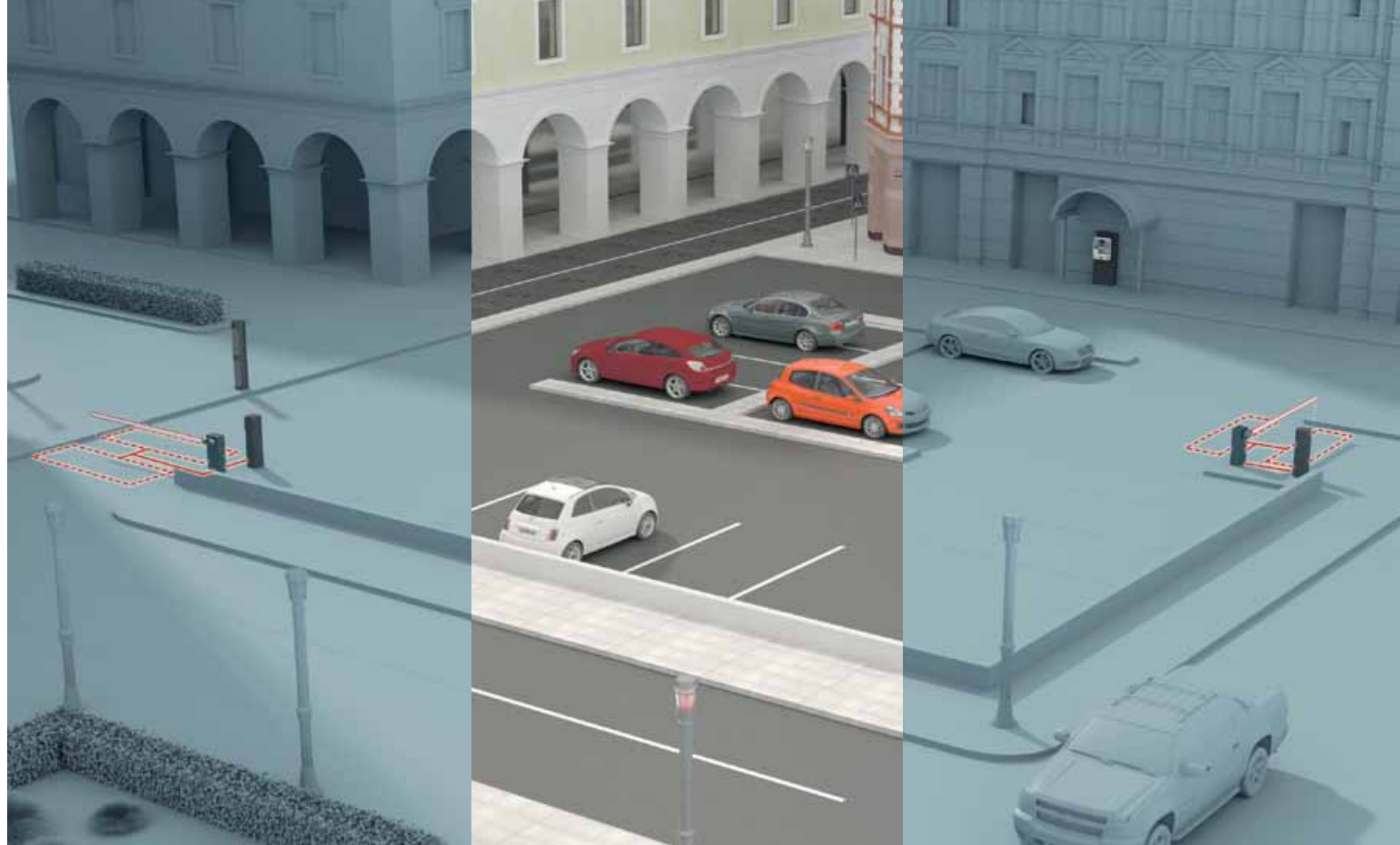
HISTORIC CENTRE

Parking in the centre

A solution consisting of three Bft products, allowing easy management of a parking area in the historic centre.

The parking area is provided with the ESPAS 20I entry and ESPAS 20 U exit stations, both connected to a barrier and two magnetic loops. The tickets are issued to users thanks to the ESPAS 20 P automatic pay station, designed to operate in stand alone parking systems. This is why installation does not require wiring between the pay station and the entry and exit columns, but only the power supply.

This has low impact on public land and big savings in installation costs.



IDENTIFIED SYSTEM

- 1 Espas 20-I
- 1 Espas 20-U
- 1 Espas 20-P
- 2 Giotto 30-S BT barriers
- 2 Vehicle detector loops
- 2 Safety loops

ADVANTAGES

- The Espas 20 system does not require for wiring and invasive excavation work, and is therefore ideal for particular installations, such as in areas of historical significance.

Easy installation and start-up are the advantages of this system based on stand-alone structure



Espas 20-I/U
Entry/exit column

- Stand alone
- RFID proximity reader
- 2D fanfold ticket reader-writer



Espas 20-P
Automatic pay station

- Stand alone
- 2D fanfold ticket reader-writer
- Complies with European regulations for the disabled

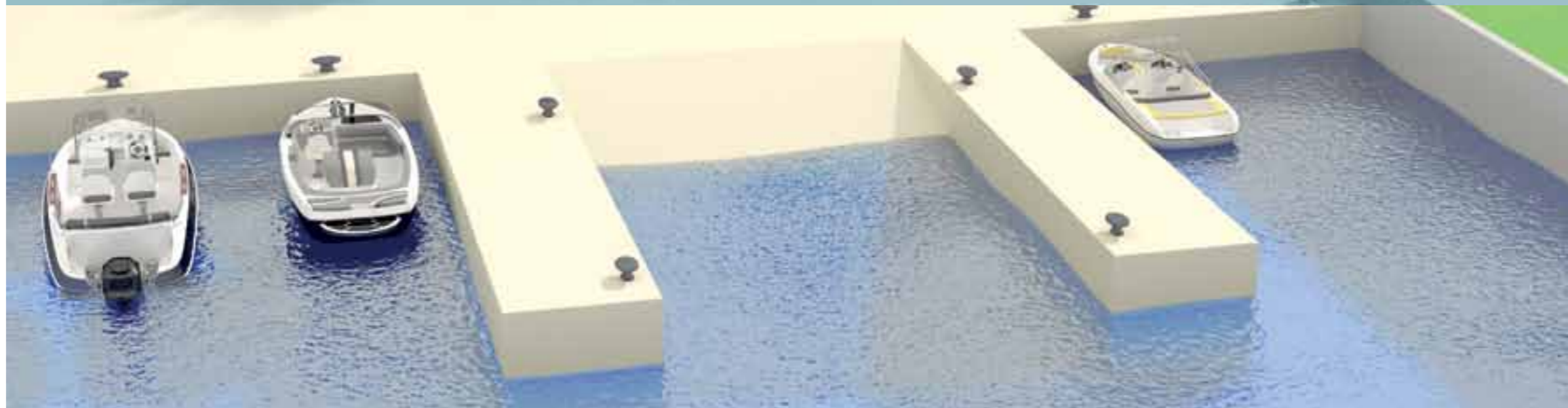


Giotto 30-S BT barriers

- Barrier for intensive use
- Useful passage up to 3 m
- Opening time 2.5 sec
- Impact reaction: reversible

BOAT RAMP

Ramp for cars and boats



Easy to install, easy to use.

In this installation case the system proposed by Bft is as simple as it is effective. In addition to the barrier and two magnetic loops, an Espas 10 money box is placed at the entrance of the dedicated area and which, by payment, will allow cars and boats to enter. After moving the boat from the ramp to the sea, the car can exit the area through another barrier.

Easy to install, this solution does not require maintenance and software to be operational.

IDENTIFIED SYSTEM

- 1 Espas 10 money box
- 2 GIOTTO 30-S BT barriers
- 2 Safety loops
- 2 Vehicle detector loops



Espas 10 money box

- payment of a fixed amount with coins, front opening for better accessibility



Giotto 30-S BT barriers

- barrier for intensive use
- useful passage up to 3 m
- opening time 2.5 sec
- impact reaction: reversible

ADVANTAGES

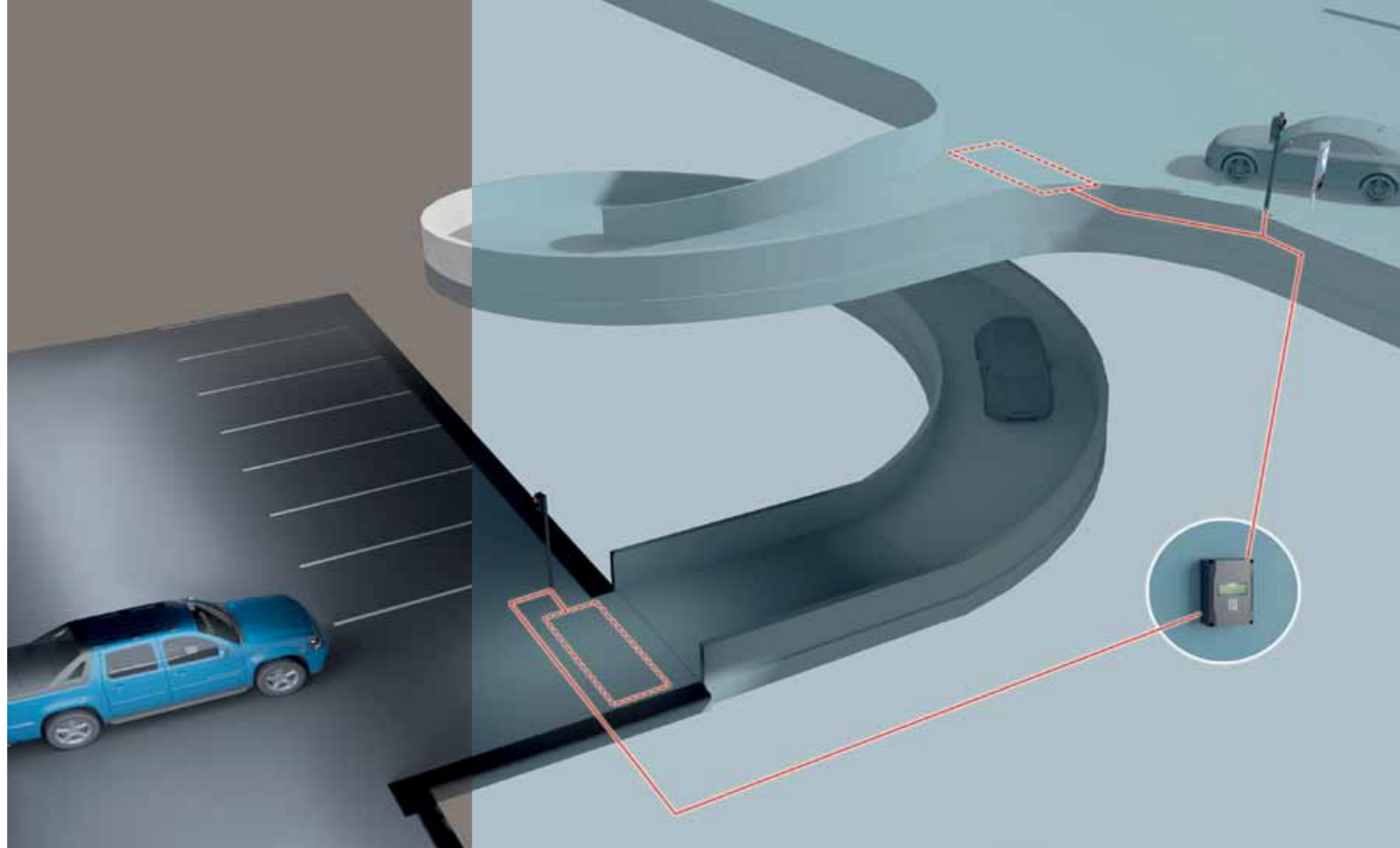
- The solution is easy to install, easy to maintain and economical, ideal for small unattended car parks

ACCESS RAMP

Alternating one-way

A simple, effective and quick to install solution to prevent head-on collisions between two cars.

This system, consisting of two magnetic loops and as many traffic light panels, all connected to a capacity kit, prevents collisions between two cars in case transit is only one way. Driving over the loop activates the panels: one indicating go, and the other stop.



IDENTIFIED SYSTEM

- 2 Vehicle detector loops
- 2 Lane traffic lights
- 1 Capacity kit



Lane traffic lights

- 2 high-brightness red-green lights
- 230 V power supply



Capacity kit

- Back-lit LCD display
- 12-key numerical keypad
- 10 digital inputs
- 5 outputs for traffic light management

ADVANTAGES

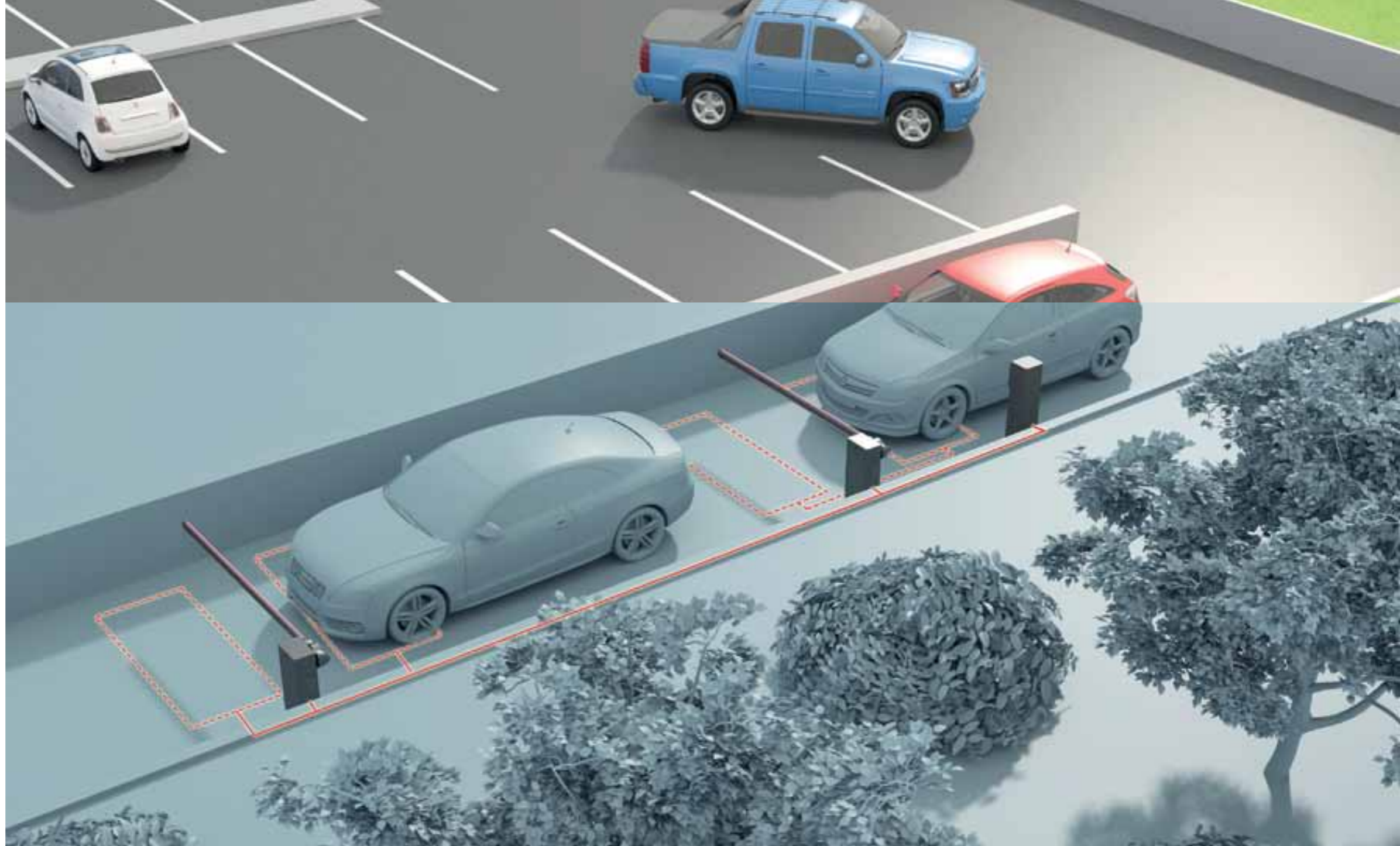
- An easy, economical and reliable solution for regulating traffic in an alternating one-way

“CAGE” EXIT

Allows only one vehicle out at a time

In some situations, vehicles can queue up and exit a car park with just one valid ticket.

To guarantee correct transit management, the Espas 30 system provides for a configuration with an exit cage obtained by positioning two barriers and four loops connected to the Espas 30 U exit column. Each of these two barriers opens only if the other is closed. In this way, only one vehicle can exit at a time.



IDENTIFIED SYSTEM

- 1 Server Espas
- 1 Espas 30 U
- 2 Giotto 30-S BT barriers
- 2 RME2
- 4 Safety loops



Espas 30 T

PC server with Windows server 2012 licence and database



Espas 30 U

- Wired system
- RFID proximity reader
- 2D fanfold ticket reader-writer



Giotto 30S

- barrier for intensive use
- useful passage up to 3 m
- opening time 2.5 sec
- impact reaction: reversible

ADVANTAGES

- Safe management of exiting vehicles with ticket payment

TUNNELS

Maximum passage height

How to fully exploit all the space between the ground and the ceiling without reducing the useful passage height?

Using the Maxima Ultra 30 barrier whose boom, upon opening, closes on itself by turning 180°. Safety is assured even in this case: the boom is equipped with red and green LED lighting to make it clearly visible in any condition.



IDENTIFIED SYSTEM

- 1 Maxima 30
- 1 Omega ATM
- 1 ATM 30 180° RG
- 1 PCA ATM3
- 1 RME2
- 2 Safety loops



Maxima 30

- 230V electromechanical barrier with three-phase induction motor
- Suitable for intensive use



ATM 30 180° RG

- 3 m boom with lights and 180° articulation

ADVANTAGES

- Maximum exploitation of an access point height
- Maximum visibility

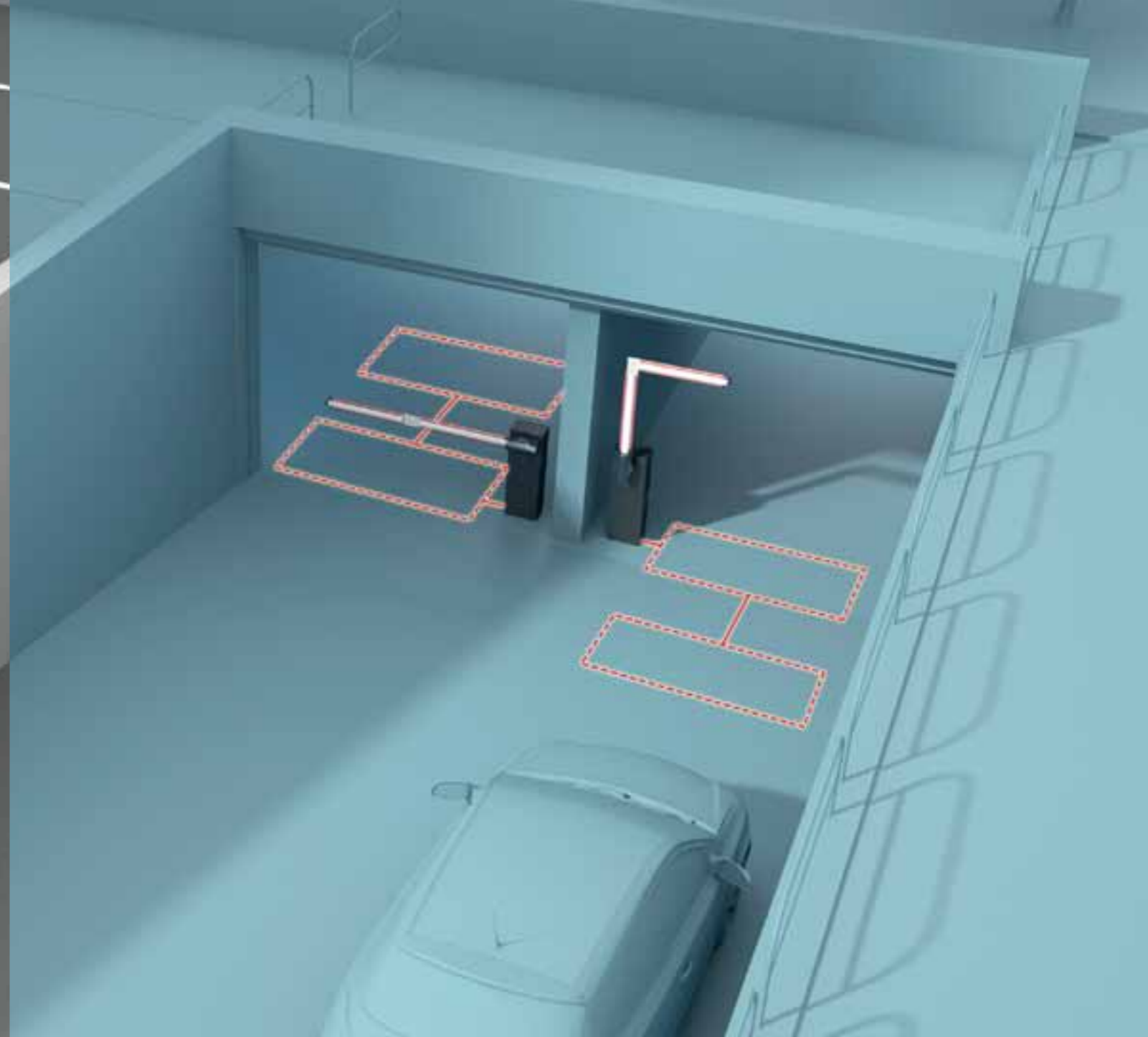
UNDERGROUND CAR PARKS

When the access point has limited height

How to manage a car park that has a wide but not high access point?

The articulated boom Art 90 Q, integrated in the Giotto30 BT barrier, is the answer. This system allows an ample access width to be covered and at the same time minimises its encumbrance when the barrier is raised.

The special articulated mechanism is fully housed in the body of the boom, with no external bracing systems.



IDENTIFIED SYSTEM

- 2 Giotto30 BT
- 2 AQ3
- 2 Omega AQ
- 2 ART90Q
- 2 RME2
- 4 Safety loops

ADVANTAGES

- Simple management of underground access points



Giotto 30 BT

- Barrier for intensive use
- Useful passage up to 3 m
- Impact reaction: reversible



ART90Q

- 90° articulation for Giotto barriers



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· MAXIMA	pg_55
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· GIOTTO	pg_57
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· ACCESSORIES	pg_60

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SINUA

Car park system.

· Fully web-based system, components connected via TCP-IP, unique design for easy payment.



SINUA-P automatic pay station

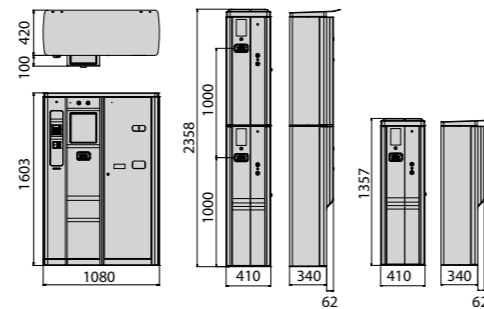
NEW
2015



SINUA-I/U entry/exit column

FEATURES

· Through the Bft U-Link proprietary protocol the operator can remotely control the state of the car park and also do operational diagnostics of the barriers installed in the system



SPECIFICATIONS

	SINUA-P	SINUA-I/U
Power supply:	230 Vac/50Hz	230 Vac/50Hz
Operating current absorption:	200 W	200 W
Current absorption when idle:	70 W	70 W
Interface:	TCP-IP	TCP-IP
Material:	Material: powder-coated galvanised steel structure	Material: powder-coated galvanised steel structure
Weight:	100 Kg	60 Kg
Operating temperature:	-20 to +50°C	-20 to +50°C
Interface:	TCP-IP	TCP-IP
Proximity reader:	RFID 125kHz	RFID 125kHz



ESPAS 30

Car park system.

Wired system for advanced installations: the system is interconnected in a standard manner via RS 485 network, maintaining the characteristics of modularity and expandability.



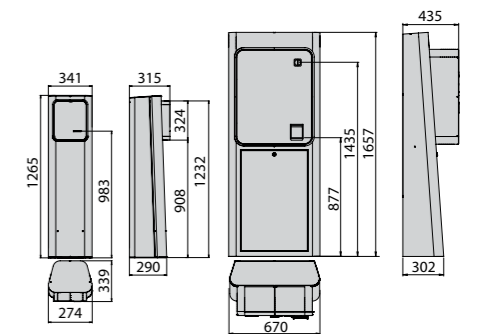
ESPAS 30 - P automatic pay station



ESPAS 30 I/U entry/exit column

FEATURES

· Versatile and expandable: it adapts to specific needs (from supermarkets to hotels, and countless other solutions, by combining accessories and products that are complementary to Espas 30)



SPECIFICATIONS

	ESPAS 30 P	ESPAS 30 I/U
Power supply:	230 Vac/50Hz	230 Vac/50Hz
Operating current absorption:	200 W	200 W
Current absorption when idle:	70 W	70 W
Material:	Material: powder-coated galvanised steel structure	galvanised steel structure, painted RAL 7015
Weight:	90 Kg	60 Kg
Operating temperature:	-20 to +50°C	-20 to +50°C
Interface:	RS-485 serial	RS-485 serial
Proximity reader:	RFID 125kHz	RFID 125kHz



ESPAS 20

Car park system.

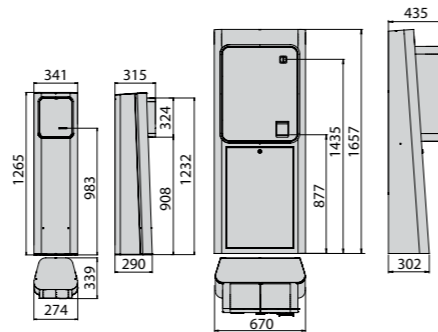
- The Espas20 system can be used to regulate entry points in small parking areas where sophisticated controls for operators, cashier work shifts and season ticket management are not required.



ESPAS 20 - P automatic pay station



ESPAS 20 I/U entry/exit column



FEATURES

- Allows the creation of an attended parking area in an economical and immediate way, without requiring lots of maintenance or specific configurations. 2D barcode ticket technology allows the operator to set rates linked to the time vehicles remain in the car park.

SPECIFICATIONS

	ESPAS 20 P	ESPAS 20 I/U
Power supply:	230 Vac/50Hz	230 Vac/50Hz
Operating current absorption:	200 W	200 W
Current absorption when idle:	70 W	70 W
Material:	galvanised steel structure, painted RAL 7015	galvanised steel structure, painted RAL 7015
Weight:	90 Kg	60 Kg
Operating temperature:	-20 to +50°C	-20 to +50°C
Interface:	non-wired system	non-wired system
Proximity reader:	RFID 125kHz	RFID 125kHz

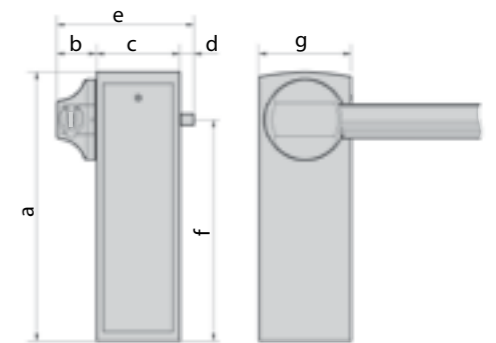


MAXIMA

Electromechanical barrier for very intensive use.

- Range of professional 230v AC electromechanical barriers for intensive use, designed and developed to operate in a wide variety of operating conditions, such as large car parks, motorway toll-gates, industrial installations. Mechanical movement with connecting rod-crank mechanism ensuring smooth movement of the boom, while managing slowdown in opening and closing. The same mechanism can ensure high anti-vandal protection for the gearmotor.

- rolling code
- Oil Gear
- Encoder



FEATURES

- Very intensive use
- Encoder technology
- Anti-vandal connecting rod-crank mechanism

DIMENSIONS

MODEL	a	b	c	d	e	f	g
MAXIMA 30	1110	120	320	40	480	950	280
MAXIMA 60	1155	170	360	60	590	950	400
MAXIMA 80	1155	170	360	60	590	950	400

SPECIFICATIONS

	MAXIMA 30	MAXIMA 60	MAXIMA 80
Useful passage	1.7 m to 3 m	4 to 6.4 m	6.5 to 8 m
Control unit	CSB-BR	CSB-BR	CSB-BR
Power supply	Single-phase 230 V	Single-phase 230 V	Single-phase 230 V
Opening or closing	1.7 sec.	9 sec.	9 sec.
Frequency of use	10,000 Op/day	2,000 Op/day	2,000 Op/day
MCBF (Mean Cycles Between Failure)	5,000,000 Op	2,000,000 Op	2,000,000 Op
Slowdown	in opening and closing	in opening and closing	in opening and closing
Impact reaction	encoder	encoder	encoder
Lock	mechanical	mechanical	mechanical
Release	inside the structure	inside the structure	inside the structure
Ambient conditions	-30°C +60°C	-30°C +60°C	-30°C +60°C
Protection rating	IP65	IP65	IP65

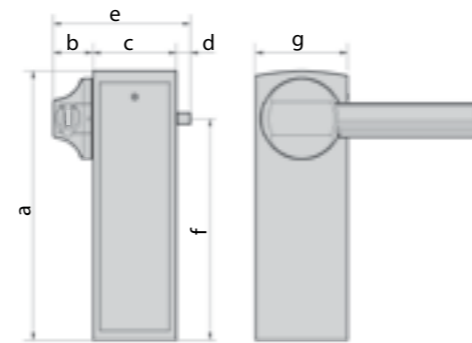


MAXIMA ULTRA

Automatic barrier.

• Range of professional 230v AC electromechanical barriers with three-phase induction motor with inverter for intensive use. Designed and developed to operate in a wide variety of conditions such as large car parks, busy motorway toll-gates, industrial installations. Possibility of setting the useful passage from electronic control unit. Mechanical movement with connecting rod-crank mechanism ensuring smooth movement of the boom, while managing slowdown in opening and closing. The same mechanism can ensure high anti-vandal protection for the gearmotor. Equipped with U-Link protocol, they allow integration in Parking Management or Building Management systems

- U-link
- rolling code
- inverter
- Oil Gear
- Block
- TRI tri
- Encoder



FEATURES

- Three-phase induction motor
- Control unit compatible with U-Link
- Anti-vandal protection with connecting rod-crank system

DIMENSIONS

MODEL	a	b	c	d	e	f	g
MAXIMA Ultra 35	1110	120	320	40	480	950	280
MAXIMA Ultra 35 SM	1110	120	320	40	480	950	280
MAXIMA Ultra 68	1155	170	360	60	590	950	400
MAXIMA Ultra 68 SM	1155	170	360	60	590	950	400

SPECIFICATIONS

	MAXIMA ULTRA 35	MAXIMA ULTRA 68
Useful passage	1.7 m to 5 m	4 m to 8 m
Frequency of use	20,000 (up to 3m) - 5,000 (up to 5m) Op/day	3000 Op/day
Control unit	CSB Xtreme	CSB Xtreme
Motor type	three-phase induction	three-phase induction
Gear unit type	in oil bath	in oil bath
MCBF (Mean Cycles Between Failure)	5,000,000 Op	2,000,000 Op
Motor power supply	230 V	230 V
Slowdown	in opening and closing	in opening and closing
Impact reaction	encoder	encoder
Lock	mechanical	mechanical
Release	inside the structure	inside the structure
Ambient conditions	-30°C +60°C	-30°C +60°C

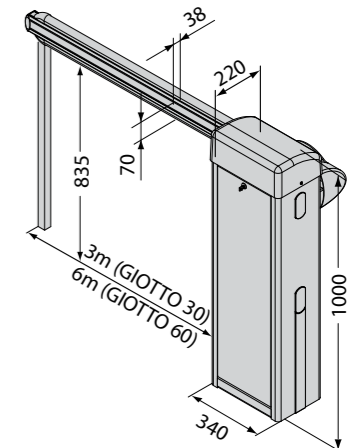


GIOTTO

Electromechanical barrier for intensive use.

- Range of barriers for semi-intensive use, able to manage useful passages up to 6 m. Available in 24V versions, they have a wide range of accessories making them ideal in any context
- Scenario programming: the LIBRA CG/CGS control panels enable extremely rapid and precise installations thanks to the scenario programming of the installation. In fact, with just a few choices made on the display it is possible to program the control unit completely, saving time and ensuring the best results
- Control unit in upper position: the control unit located at the top of the barrier and protected by a solid aluminium housing enables connection, programming and maintenance operations to be performed with maximum ease and convenience.
- 24V power supply: The gearmotor 24V power supply allows the use of the emergency power supply kit (GTO BAT battery kit) and also the ECOSOL solar power system

- rolling code
- er ready
- ee link
- 24 V



FEATURES

- Encoder technology
- Electronic limit switches
- Compatible with ECOSOL solar power system

SPECIFICATIONS

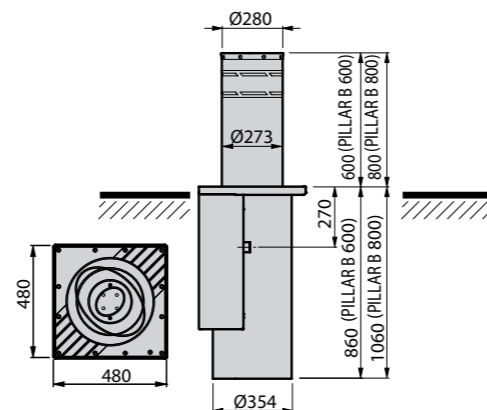
	GIOTTO 30 BT	GIOTTO 30S BT	GIOTTO 60 BT	GIOTTO 60S BT
Useful passage	3 metres	3 metres	6 metres	6 metres
Control unit	Libra C G	Libra C GS	Libra C G	Libra C GS
Motor power supply	24V	24V	24V	24V
opening or closing	4 seconds	2.5 seconds	5 seconds	4 seconds
Type of limit switch	elec.opening/closing	elec.opening/closing	elec.opening/closing	elec.opening/closing
Slowdown	adjustable	adjustable	adjustable	adjustable
Impact reaction	encoder	encoder	encoder	encoder
Lock	mechanical	mechanical	mechanical	mechanical
Release	personal key	personal key	personal key	personal key
Frequency of use	intensive	intensive	intensive	intensive
Ambient conditions	-10°C to +55°C*	-10°C to +55°C*	-10°C to +55°C*	-10°C to +55°C*
Protection rating	IP54	IP54	IP54	IP54



PILLAR B

Hydraulic bollard.

- 230v AC hydraulic bollard for very intensive use. Their size and technical characteristics make them particularly suitable in installations for the protection of sensitive sites, and in the version with SD (Security Device) the shaft can be kept raised even in case of a power failure.



FEATURES

- High breaking resistance
- Stainless steel version for maximum resistance in all types of ambient conditions
- Suitable for very intensive use

SPECIFICATIONS

	PILLAR B 275/600.6C L	PILLAR B 275/600.6C L SD PILLAR B 275/600.6C LI SD	PILLAR B 275/800.6C L	PILLAR B 275/800.6C L SD PILLAR B 275/800.6C LI SD
Voltage	230 V	230 V	230 V	230 V
Shaft height	600mm	600mm	800mm	800mm
Shaft diameter	275	275	275	275
Raise time	5 sec	5 sec	6.5 sec	6.5 sec
Operator type	hydraulic bollards	hydraulic bollards	hydraulic bollards	hydraulic bollards
Control unit	PERSEO CBD 230.P SD	PERSEO CBD 230.P SD	PERSEO CBD 230.P SD	PERSEO CBD 230.P SD
Breaking resistance	250000J	250000J	250000J	250000J
Frequency of use	3000 Op/day	3000 Op/day	3000 Op/day	3000 Op/day
Type of limit switch	reed magnetic sensor	reed magnetic sensor	reed magnetic sensor	reed magnetic sensor
Impact resistance	20,000 J	20,000 J	20,000 J	20,000 J
Manual operation	reversible with no power	reversible with no power	reversible with no power	reversible with no power
Ambient conditions	-40°C +60°C	-40°C +60°C	-40°C +60°C	-40°C +60°C



RANCH B-C-D

Fixed bollard.

- Fixed bollards used for preventing access for long periods. Bolted to the ground, their purpose is to block an access point or a road. They can integrate the use of automatic or semi-automatic bollards.



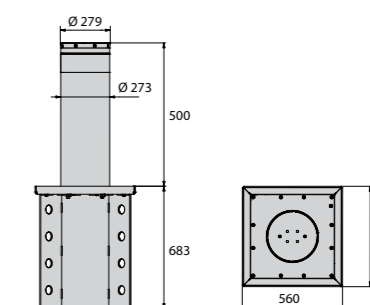
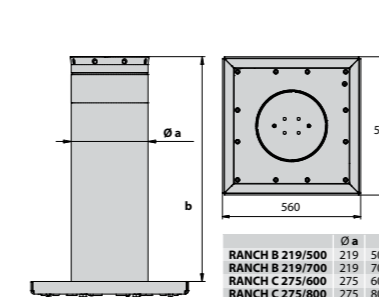
RANCH B



RANCH C



RANCH D



SPECIFICATIONS

	RANCH B 219/500	RANCH B 219/700	RANCH C 275/600	RANCH C 275/800	RANCH D 275/800
Shaft height	500 mm	700 mm	600 mm	800 mm	800 mm
Shaft diameter	220 mm	220 mm	275 mm	275 mm	275 mm
Shaft thickness	3 mm	3 mm	6 mm	6 mm	10 mm
Shaft treatment	cataphoresis	cataphoresis	RAL 7015 painted steel	RAL 7015 painted steel	RAL 7015 painted steel
Breaking resistance	150000 J	150000 J	250000 J	250000 J	730000 J

ACCESSORIES

B EBA TCP/IP

Interface card for U-link protocol in TCP-IP network



PERSEO CBE

New control panel for bollards with U-Link connectivity



LANE TRAFFIC LIGHTS



TRAFFIC-LIGHT PANEL



B-EBA TCP/IP GATEWAY

Interface card for TCP/IP protocol

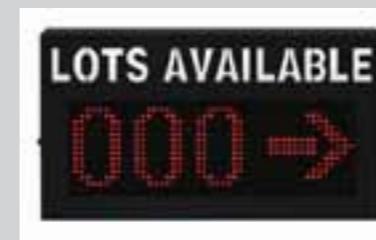


SINGLE SPACE MANAGEMENT SYSTEM

Monitoring of vacant parking space with ultrasound sensor



LED INDICATOR PANEL



ATM 30 180° RT

3m boom with lights and 180° articulation



CAPACITY KIT



BC BONUS ON-LINE

POS Server and automatic validator



ART90Q

90° articulation for Giotto barriers



OMEGA ATM FRA U35

Fracture system clamping for Maxima Ultra 35 with ATM bar



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