

BENITO

- Street Lighting
- Street Furniture
- Play and Sport Equipment
- Covers and Grates

provided by... **ipl** group

- www.iplgroup.com
- info@iplgroup.com
+353 (0) 41 983 2591

AUTOMATIC BOLLARDS

PROTECTION AND GUIDANCE
FOR A RANGE OF APPLICATIONS

BENITO

- Street Lighting
- Street Furniture
- Play and Sport Equipment
- Covers and Grates

The Automatic Bollard applies a simple yet effective electrohydraulic mechanism ensuring a smooth and efficient movement of the bollard. It is designed to be a very secure product in preventing unauthorized access, and are often used in conjunction with permanent bollards or automatic barriers.

Why choose our automatic rising bollards?

- The most sensitive electrical components are placed in the top so that water contact is always avoided.
- The hydraulic system keeps watertight.
- The only bollard in the market without inner metal cores meaning that it keeps working in case of blows. In the event of a heavy impact only the piston needs to be replaced saving on replacing the whole system.

Where should I install an automatic bollard?

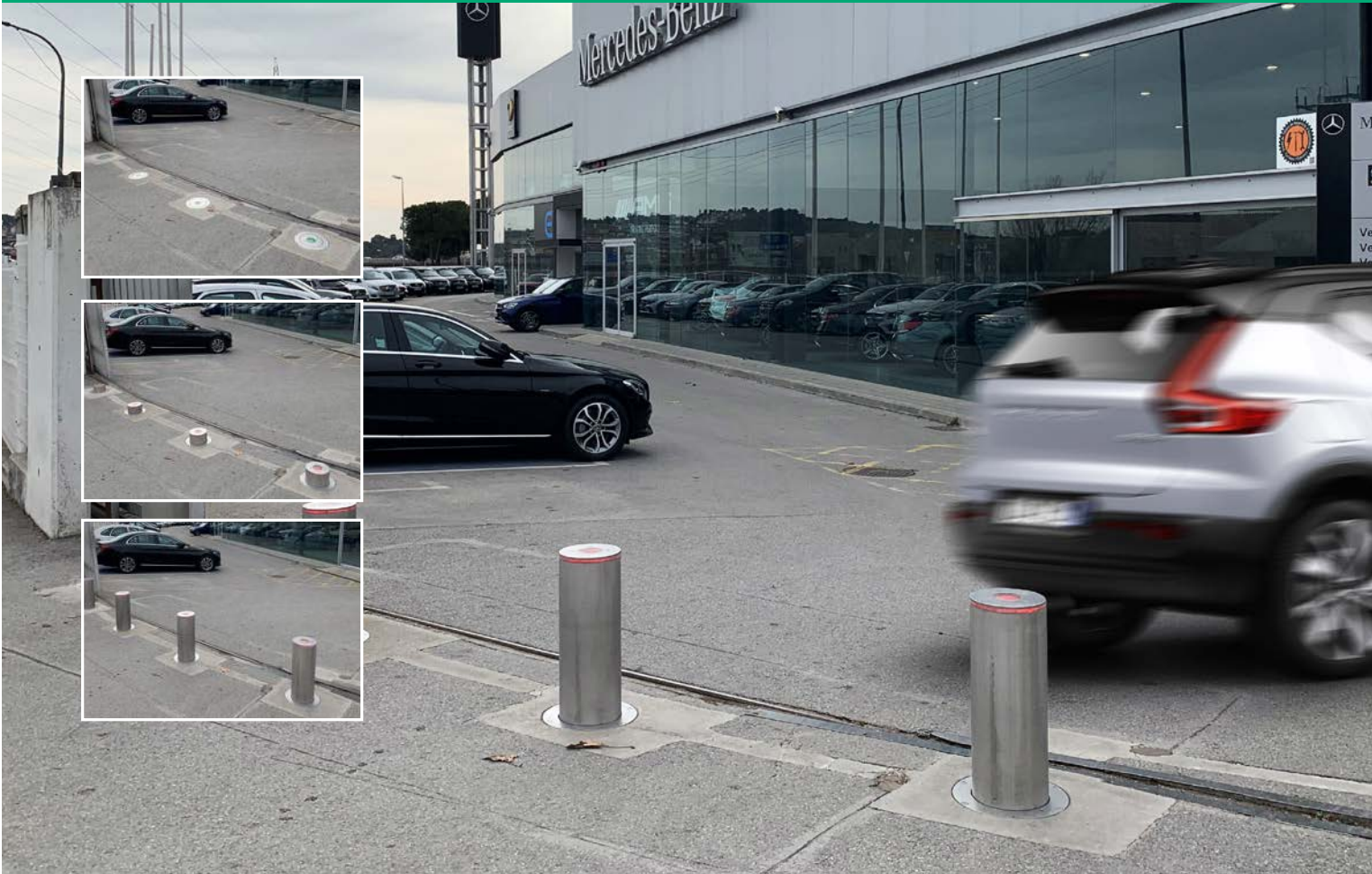
It makes them a very useful for places where access changes multiple times per day or week.

Parking lots, squares, pedestrian areas, old town centers, residential compounds that only allow vehicle access at certain times or to certain people.

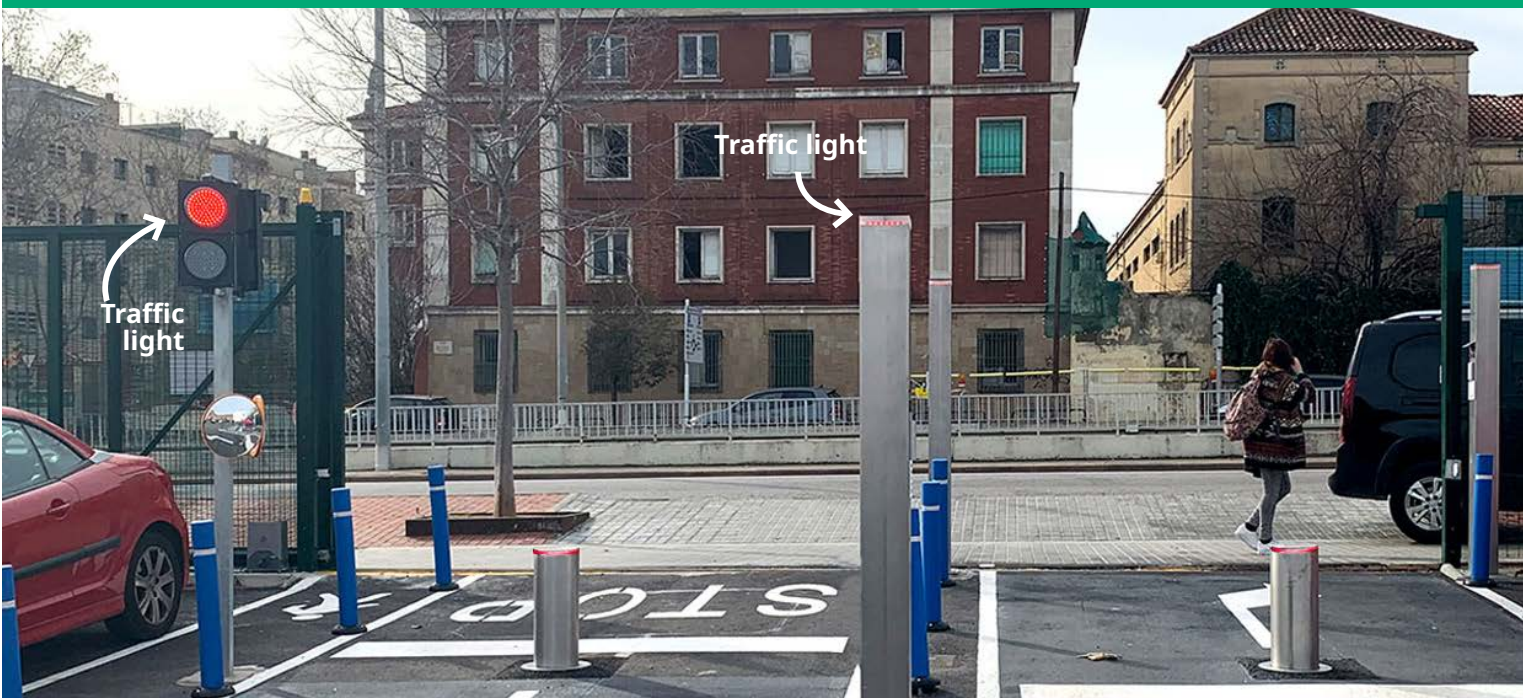
- Automatic Bollards.
- Security Bollards.
- Semi Automatic Bollards.
- Removable Bollards.
- Flex Bollards.
- Rubber Bollards.
- Fixed Bollards.
- Speed Bumps & Humps.
- Access Control.
- Accessories for automation solutions.
- Control Equipment.



Installation of high security automatic bollards 750mm height (Barcelona)



Installation of 600mm height automatic bollards with two-light traffic light post, intercom and card reader integrated in a totem pole.



Automatic Bollard with remote control and red/ green LED traffic light ring, Ø220 and 600mm height

4mm thickness (ref. H6004)

8mm thickness (ref. H6008)



This bollard is recommended for use in any pedestrian areas, residential compounds, corporate buildings, parking lots amongst other applications.

Automatic bollard made with AISI 304 satin brushed stainless steel piston. Top lid, chassis, clamping and screws all made of stainless steel.

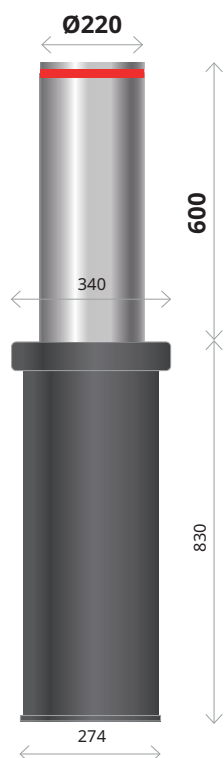
Active lowering in the event of a fault. Automatic lowering in case of malfunction or emergency, this allows lowering without electricity or auxiliary means.

Optional: a metallic mass detector can be included for improved security. This device detects vehicles and lowers the bollard automatically. In case of individuals or other obstacles, a pressure sensor will operate to lower the bollard to the slightest sign of impact.

Red light when raised



Green light when lowered



		Bollard H6004	Bollard H6008
Dimensions and materials	Moving Cylinder Height	600mm	600mm
	Moving Cylinder Diameter	220mm	220mm
	Moving Cylinder Thickness	4mm	8mm
	Dimensions of the box	300x300x830mm	340x340x830mm
	Material	Stainless steel	Stainless steel
	Finish	AISI 304 satin brushed	AISI 304 satin brushed
Characteristics	Voltage	230V 50Hz	230V 50Hz
	Consumption	700W	700W
	Engine power	300W (3.000rpm)	300W (3.000rpm)
Functional features	Speed	90mm/s 130mm/s	90mm/s 130mm/s
	Operating Temperature	-20°C + 80°C	-20°C + 80°C
	Protection grade IP	IP67	IP67
	Strength when rising	1.400NW	1.400NW
	Rising Speed	3-4 seconds	3-4 seconds
	Lowering Speed	3-4 seconds	3-4 seconds
	Control Unit	BC20	BC20
	Impact Resistance	45.000 J	100.000 J
	Led lighting ring	Yes, LED RGB	Yes, LED RGB
	Traffic Light function	Yes	Yes
Optional features	Reflective strip	Optional	Optional
	People and object security	Optional	Optional



Automatic Bollard with remote control and red/ green LED traffic light ring, Ø220 and 750mm height

4mm thickness (ref. H7504)

8mm thickness (ref. H7508)

This bollard is recommended for use in any pedestrian areas, residential compounds, corporate buildings, parking lots amongst other applications.

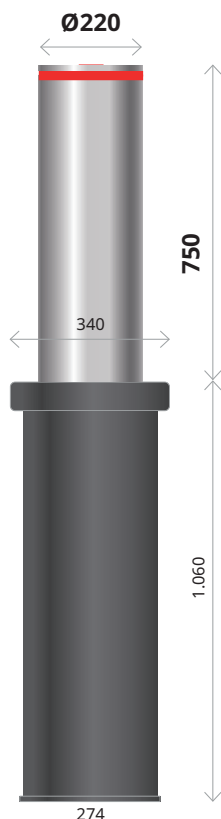
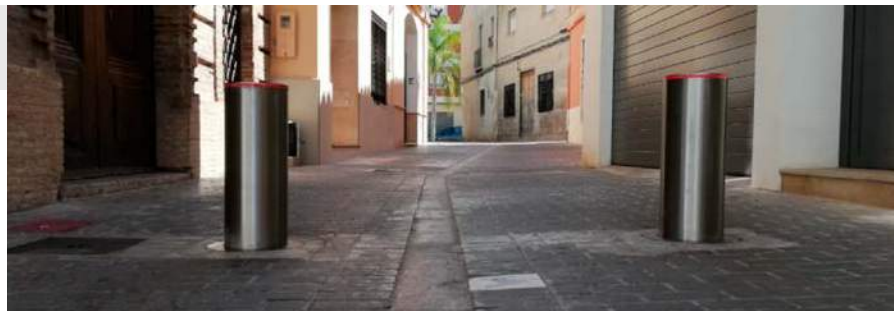
Automatic bollard made with AISI 304 satin brushed stainless steel piston. Top lid, chassis, clamping and screws all made of stainless steel.

Active lowering in the event of a fault. Automatic lowering in case of malfunction or emergency, this allows lowering without electricity or auxiliary means.

Optional: a metallic mass detector can be included for improved security. This device detects vehicles and lowers the bollard automatically. In case of individuals or other obstacles, a pressure sensor will operate to lower the bollard to the slightest sign of impact.

Red light when raised

Green light when lowered



		Bollard H7504	Bollard H7508
Dimensions and materials	Moving Cylinder Height	750mm	750mm
	Moving Cylinder Diameter	220mm	220mm
	Moving Cylinder Thickness	4mm	8mm
	Dimensions of the box	340x340x1.060mm	340x340x1.060mm
	Material	Stainless steel	Stainless steel
	Finish	AISI 304 satin brushed	AISI 304 satin brushed
Characteristics	Voltage	230V 50Hz	230V 50Hz
	Consumption	700W	700W
	Engine power	300W (3.000rpm)	300W (3.000rpm)
Functional features	Speed	90mm/s 130mm/s	90mm/s 130mm/s
	Operating Temperature	-20°C + 80°C	-20°C + 80°C
	Protection grade IP	IP67	IP67
	Strength when rising	1.400NW	1.400NW
	Rising Speed	3-4 seconds	3-4 seconds
	Lowering Speed	3-4 seconds	3-4 seconds
	Control Unit	BC20	BC20
	Impact Resistance	65.000 J	155.000 J
	Led lighting ring	Yes, LED RGB	Yes, LED RGB
	Traffic Light function	Yes	Yes
Optional features	Reflective strip	Optional	Optional
	People and object security	Optional	Optional

Automatic Bollard with remote control and red/ green LED traffic light ring Ø220 and 13mm thickness

600mm height (ref. H60013)

750mm height (ref. H75013)



Sensitive sites that require demand a high level of security while selectively authorizing the passage of authorized vehicles.

Active rising in the event of a fault. Automatic rising in case of malfunction or emergency, this allows rising without electricity or auxiliary means.

Optional: a metallic mass detector can be included for improved security. This device detects vehicles and lowers the bollard automatically. In case of individuals or other obstacles, a pressure sensor will operate to lower the bollard to the slightest sign of impact.

Red light when raised

Green light when lowered



		Bollard H60013	Bollard H75013
Dimensions and materials	Moving Cylinder Height	600mm	750mm
	Moving Cylinder Diameter	220mm	220mm
	Moving Cylinder Thickness	13mm	13mm
	Dimensions of the box	340x340x1.060mm	340x340x1.060mm/1.210mm
	Material	Stainless steel	Stainless steel
	Finish	AISI 304 satin brushed	AISI 304 satin brushed
Characteristics	Voltage	230V 50Hz	230V 50Hz
	Consumption	700W	700W
	Engine power	300W (3.000rpm)	300W (3.000rpm)
Functional features	Speed	90mm/s 130mm/s	90mm/s 130mm/s
	Operating Temperature	-20°C + 80°C	-20°C + 80°C
	Protection grade IP	IP67	IP67
	Strength when rising	1.400NW	1.400NW
	Rising Speed	3-4 seconds	4 seconds
	Lowering Speed	3-4 seconds	4 seconds
	Control Unit	BC20	BC20
	Impact Resistance	250.000 J	250.000 J
	Led lighting ring	Yes, LED RGB	Yes, LED RGB
	Traffic Light function	Yes	Yes
Optional features	Reflective strip	Optional	Optional
	People and object security	Optional	Optional

Automatic Bollard with remote control, reflective strip and 4 LEDs, Ø273 and 600mm height

ref. H275AHG



Automatic bollard made with Ø273 mm x 600 mm (h) AISI-304 stainless steel piston. Surface cover, chassis, fixings and bolts in stainless steel.

Signaling consists of 4 red LEDs and a white reflective band on top. It features two security loop systems and a remote control.

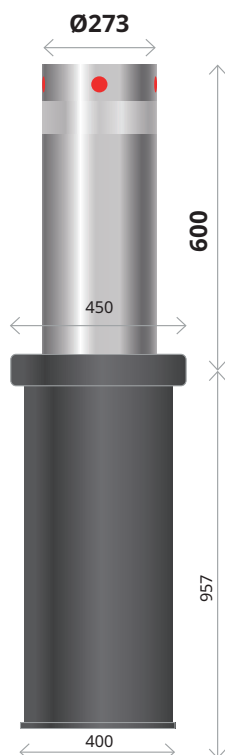
Excellent visibility thanks to its LED traffic light system indicator (green and red).

when raised

when lowered



Bollard H275AHG



Dimensions and materials	Moving Cylinder Height Moving Cylinder Diameter Moving Cylinder Thickness Dimensions of the box Material Finish	600mm 275mm 4mm 450x450x1.000mm Stainless steel AISI 304 satin brushed
Characteristics	Voltage Consumption Engine power	230V 50Hz 700W 300W (3.000rpm)
Functional features	Speed Operating Temperature Protection grade IP Strength when rising Rising Speed Lowering Speed Control Unit Impact Resistance Led lighting ring Traffic Light function	90mm/s 130mm/s -20°C + 80°C IP67 1.400NW 3-4 seconds 3-4 seconds BC20 250.000 J Yes, 4 LEDs Yes
Optional features	Reflective strip People and object security	Optional Optional

How to control the rising and lowering of the automatic bollard?



Control and Command. Access control options

Remote control and radio transmitter/receiver to monitor the automatic bollard.



Proximity card reader



Long-distance vehicle tag system



Electric key switch to enable lowering



How does the user communicate with us in case of incidents?

Video intercom system and entry phone system. We will receive a call in our phone or tablet.



Can we allow the access without having to do anything at all?

Automatic Number Plate Recognition

For frequent users just entry the car number plate in the data base and the reader allows the lowering of the bollard.



How to response when an emergency vehicle needs to enter the secured area?

Siren Detector for Automatic Lowering for Emergency Services.



There is also the option of a siren detector, which enables automatic activation of the bollard and allows emergency services access to the protected area.



From simple management to smart control

Access control systems to meet every possible operational requirement.



This device allows the user to view the access to determine if the system is working properly, or to verify that the equipment is in order (lights, bollards, loops).

Optional: WIFI, GSM or ETHERNET.



In case of emergency this device and a simple SIM phone card allow the lowering of the bollard with a free phone call.



Adding a timer allows the area to be accessible during specific times. In high security areas.



No electric source is required



Solar-powered system to provide voltage (230V).



Power battery back-up for locations without power supply. The batteries are being charged overnight from the main street lighting network.



A wide range of additional options



Heating pack enabling the bollard to operate at very low temperatures avoid freezing with automatic regulation.



Traffic Light Post and LED technology.



Stainless Steel control cabinet with traffic light function. meant to be fixed to the ground on its embedding base. Technical compartment is accessible from the front.

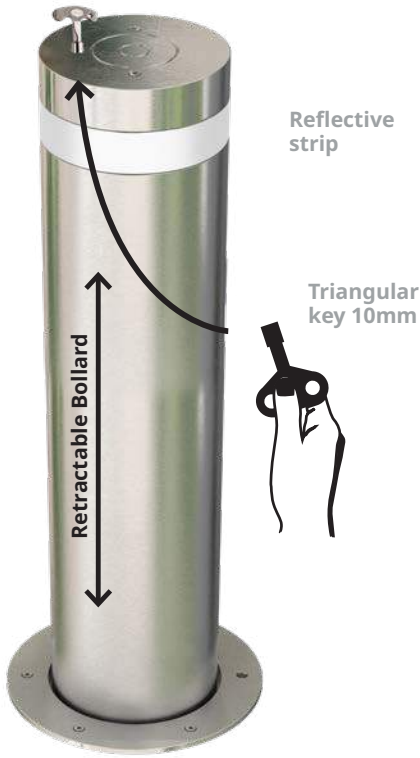


Metal masses detection for cars and trucks to avoid the rising of the bollard and prevent impacts.



Semi automatic Bollard and reflective strip, Ø114mm and high 500mm

4mm thickness (ref. H1144)



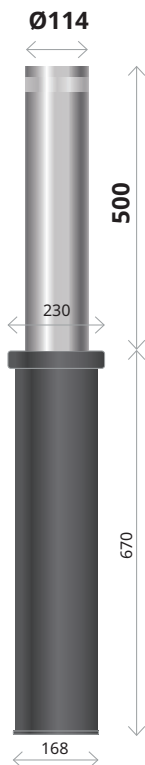
The semi-automatic bollard is adapted to low-traffic area management such as a square opened a few times per month for particular events, or a reserved area.

Automatic rising / manual lowering.

Automatic locking in both up and down position, unlocking with DIN3223 triangular key.

When deployed in their raised position, the bollards provide a clear visual barrier to vehicles.

OPTIONAL with customized key.



bollard H1144

Dimensions and materials	Moving Cylinder Height	500mm
	Moving Cylinder Diameter	114mm
	Moving Cylinder Thickness	4mm
	Dimensions of the box	230x230x680mm
	Material	Stainless steel
Functional features	Finish	AISI 304 satin brushed
	Rising Mechanism	Gas cylinder
	Strength when rising	300 Newton
	Lowering mechanism	Manual
	Reflective strip	Yes
	Led ring	No
Operation key	Triangular 10mm	
Impact resistance	6.000 J	
Use cycles	More of 500.000	

Semi automatic Bollard and reflective strip, Ø220mm and 500mm height

4mm thickness (ref. H2204)

8mm thickness (ref. H2208)

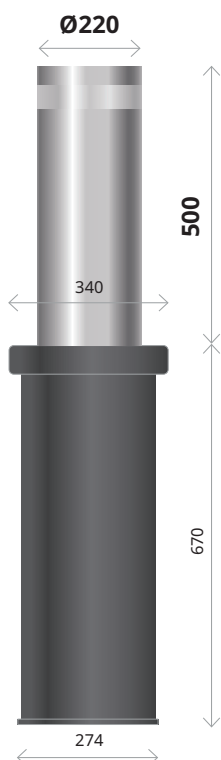


The semi-automatic bollard is adapted to low-traffic area management such as a square opened a few times per month for particular events, or a reserved area

Automatic rising / manual lowering.

Automatic locking in both up and down position, unlocking with DIN3223 triangular key.

OPTIONAL with customized key.



		bollard H2204	bollard H2208
Dimensions and materials	Moving Cylinder Height	500mm	500mm
	Moving Cylinder Diameter	220mm	220mm
	Moving Cylinder Thickness	4mm	8mm
	Dimensions of the box	340x340x670mm	340x340x680mm
	Material	Stainless steel	Stainless steel
	Finish	AISI 304 satin brushed	AISI 304 satin brushed
Functional features	Rising Mechanism	Gas cylinder	Gas cylinder
	Strength when rising	400 Newton	400 Newton
	Lowering mechanism	Manual	Manual
	Reflective strip	Yes	Yes
	Led ring	No	No
	Operation key	Triangular 10mm	Triangular 10mm
	Impact resistance	15.000 J	20.000 J
	Use cycles	more of 500.000	more of 500.000

Semi automatic Bollard and LED lighting ring, Ø220 and high 500mm

4mm thickness (ref. H220L4)

8mm thickness (ref. H220L8)

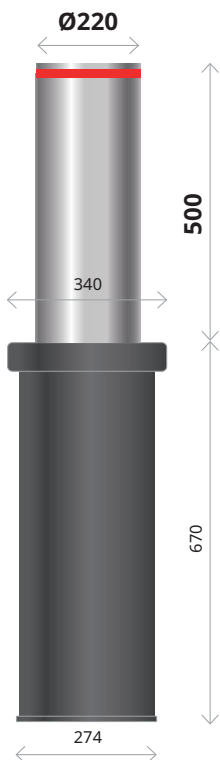


The semi automatic bollard is adapted to the low-traffic areas management such as a square opened a few times per months for particular events, a reserved area.

Automatic rising / manual lowering.

Automatic locking in both up and down position, unlocking with DIN3223 triangular key.

OPTIONAL: customized key.



		bollard H220L4	bollard H220L8
Dimensions and materials	Moving Cylinder Height	500mm	500mm
	Moving Cylinder Diameter	220mm	220mm
	Moving Cylinder Thickness	4mm	8mm
	Dimensions of the box	340x340x680mm	340x340x680mm
	Material	Stainless steel	Stainless steel
	Finish	AISI 304 satin brushed	AISI 304 satin brushed
Functional features	Rising Mechanism	Gas cylinder	Gas cylinder
	Strength when rising	400 Newton	400 Newton
	Lowering mechanism	Manual	Manual
	Reflective strip	No	No
	Led ring	Yes	Yes
	Operation key	Triangular 10mm	Triangular 10mm
	Impact resistance	15.000 J	20.000 J
Use cycles	More of 500.000	More of 500.000	

Retractable Bollard with two reflective strips, Ø140 and 500mm high

ref. H275TR

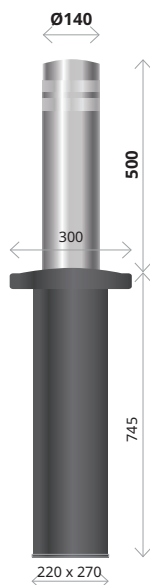


The semi automatic bollard is adapted to the low-traffic areas management such as a square opened a few times per months for particular events, a reserved area.

Automatic rising / manual lowering.

Automatic locking in both up and down position, unlocking with DIN3223 triangular key.

OPTIONAL: customized key.



		bollard 275TR
Dimensions and materials	Moving Cylinder Height	500mm
	Moving Cylinder Diameter	140mm
	Moving Cylinder Thickness	2mm
	Dimensions of the box	300x300x750mm
	Material	Stainless steel
	Finish	AISI 304 satin brushed
Functional features	Rising Mechanism	Gas cylinder
	Strength when rising	400 Newton
	Lowering mechanism	Manual
	Reflective strip	Yes
	Led ring	No
	Operation key	Triangular 10mm
	Impact resistance	6.000 J
Use cycles	More of 500.000	

Embedded fixed bollard Ø220 or Ø114

4mm o 8mm thickness
total height 800mm / 900mm / 1000mm / 1200mm



Fixed bollards are the ideal solution to complete an automatic bollards installation keeping the same aesthetic.

		bollard HE114	bollard HE220
Specifications	Total height	800 / 900 / 1000 / 1200mm	800 / 900 / 1000 / 1200mm
	Diameter	Ø114mm	Ø220mm
	Thickness	4mm / 8mm	4mm / 8mm
	Material	Stainless steel	Stainless steel
	Finish	AISI 304 satin brushed	AISI 304 satin brushed

Fixed bollard Ø220 or Ø114

4mm o 8mm thickness
800mm / 900mm / 1000mm / 1200mm height from ground level



Fixed bollard with base allowing anchoring in the ground

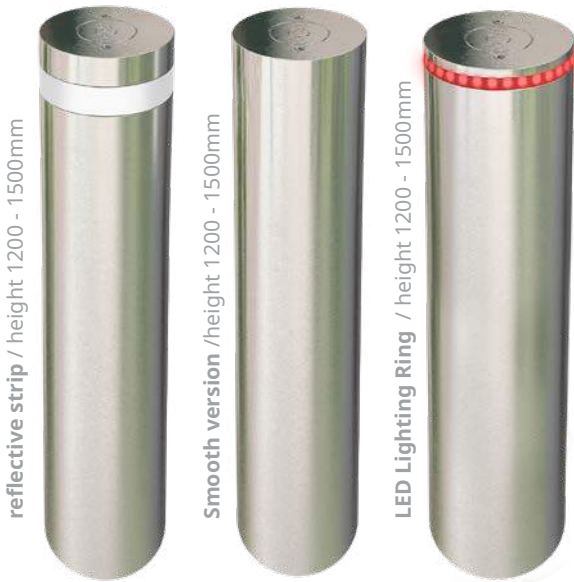
		bollard HP114	bollard HP220
Specifications	Total height	800 / 900 / 1000 / 1200mm	800 / 900 / 1000 / 1200mm
	Diameter	Ø114mm	Ø220mm
	Thickness	4mm / 8mm	4mm / 8mm
	Material	Stainless steel	Stainless steel
	Finish	AISI 304 satin brushed	AISI 304 satin brushed

High security fixed bollards Ø220 and 13mm thickness

1200mm height (ref. HS1200)

1500mm height (ref. HS1500)

To prevent the entrance of vehicles permanently in sensitive areas that require high security protection.



Specifications		bollard HS1200	bollard HS1500
Total height		1200mm	1500mm
Diameter		Ø220mm	Ø220mm
Thickness		8mm	8mm
Material		Stainless steel	Stainless steel
Finish		AISI 304 satin brushed	AISI 304 satin brushed

Stainless steel removable bollard Ø114 with one reflective strip 4mm thickness 800mm height

Ref. HEXT



The bollard is removable without any special or additional tool: a key is all they need. A locking system will deter non-authorized would-be users to open the access. A turn of the key is enough to unlock the bollard and remove it from its socket.

This is a simple and effective solution to restrict access to any area with a small budget.

Dimensions and materials		bollard HEXT
Total height		800mm
Moving Cylinder Diameter		114mm
Moving Cylinder Thickness		4mm
Dimensions of the box		200 x 168 x 168mm
Material		Stainless steel
Finish		AISI 304 satin brushed
Functional features	reflective strip	Optional
	Corona LED	No

Automatic bollards with 600mm height along with flexible bollards with led lighting ring powered by solar panels.





Automatic Barrier

Reference **B1**



Our automatic barrier control solutions are suitable for residential and commercial applications. Manufactured in galvanized steel and coated.

Adonized aluminium beam (arm).

Max Beam up to 6 meters. Customized to 3m and 4m.

24V engine to guarantee an intensive and reliable use.

Includes compensation spring and pack to install the beam.

Control and command: automatic/manual .

Ready to install accessories: opening systems, schedule control, safety loops, photocell, traffic light on the housing, presence detection.

Self-learning system of the opening and closing times.

Synchronized performance with two barriers by a module Syncro.

Optional with 24V engine with programmed rising and lowering and B-Pack battery or solar system and Eco-Logic system in case of absence of power supply.

Key switch on housing to lock barrier in closed or open position.

FLEXIBLE BOLLARDS 90°

Bollard made of flexible black color elastomeric plastic.
 UV rays resistant with a reflective strip on the top.
 Exceeds a flexion of 1500 cycles at 45° and 50 cycles at 90° without damage.
 Classification E of fire behave according to UNE-EN 13501-1:2007+A1:2010.

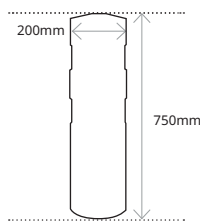
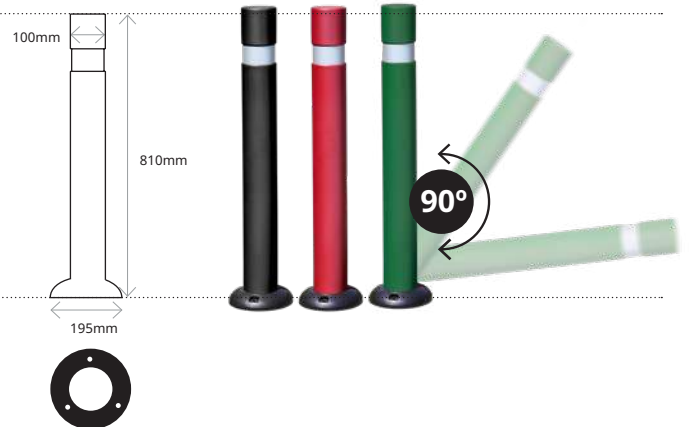
Flexible bollard H214U

Recommended anchoring: Embeddable base.
 Optional: removable mounting



Flexible bollard H414

Anchoring through three lag screws inserted at the base.



Hito H475

Bollard made of high-quality polyethylene .
 Anchoring through a galvanized steel plate base Ø165mm diameter and 1,5mm thickness.
 Two reflective strips of 10cm width each and prismatic level II
 Manufactured according to the norm UNE 135.363, la UNE 135.330 and la EN471.

Make your high -traffic spaces safer. Traffic safety supplies are designed to efficiently reduce speed, prevent accidents, and minimize damage from minor collisions.

Cycleway stopper GOTA

775mm x 164 x 90 ref. VBA21P
 820mmx 210 x 130 ref. VBA21

CERTIFIED. Pellets of 100% recycled PVC, collected from the coating of already used electric cables (POST CONSUMPTION).
 Finishing with reflective paint based on reflective micro spheres.
 Certified product.



Speed Bumps & Humps

End side pieces 600 x 240 x 30 ref. VBA04

Inner pieces 600 x 475 x 30 ref. VBA04

Speed stopper traffic ramp made of 100% recyclable and ecological material. Modular set forming a speed-reducing band. Made of natural rubber with visible black and yellow stripes parallel to the direction of traffic. Highly retroreflective and non-skid. Adapts perfectly to the pavement, absorbs deformations, does not degrade or develop cracks; produces no noise pollution.

Recommended anchoring: Five bolts M8 and plastic anchors. (not included)



SEMI FLEXIBLE BOLLARDS 20°

Bollard made of high- and low-density compact polyethylene.

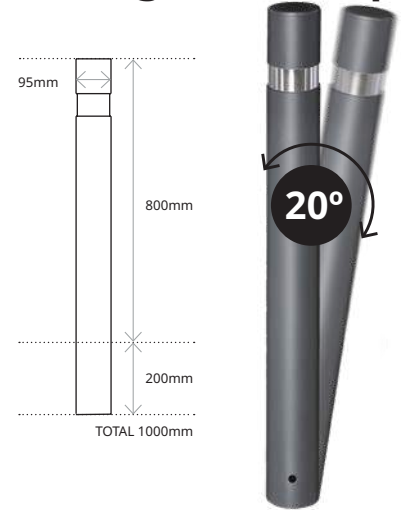
Its inner core made of recycled rubber offers high resistance to impact. With two reflecting bands at top and bottom. Highly resistant to hard weather conditions. Does not rust or absorb dirt.

Excellent UV radiation resistance. Anti-graffiti and easy to clean.

Recommended anchoring: polyurethane embedded base (with a hole in the bottom to allow drainage)

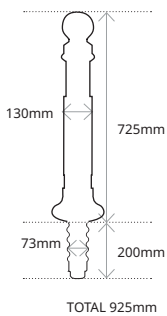


Bollard made of high impact resistance composite. 100% recyclable. With stainless steel ring on the top.



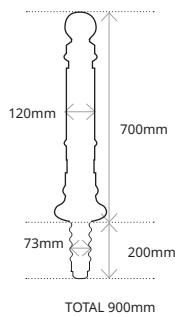
Durable H214F

Matt finishing, wrought iron color. Recommended anchoring: Embeddable base. Optional: removable mounting. 800mm at ground level.



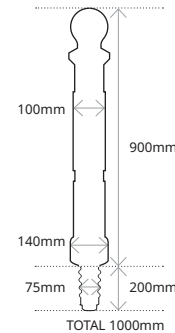
TRAJANA FLEX P H410P

With two reflective strips at top and bottom. 725mm at ground level.



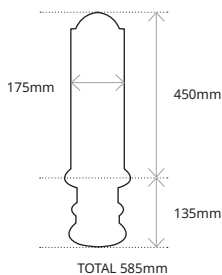
EROS FLEX H412

With two reflective strips at top and bottom. 700mm at ground level.



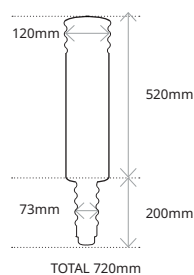
TRAJANA FLEX H410

With two reflective strips at top and bottom. 900mm at ground level.



Semi-flex Bollard H415

and dos franjas reflectantes and height desde el suelo de 450mm. **NO SE PUEDE INSTALAR COMO EXTRAÍBLE.**



Semi-flex Bollard H411

and una franja reflectante and height desde el suelo de 520mm.



Embedding removable base Made in polyurethane.

The soil should be permeable to make accumulations of water around the base easier to drain. The base has a hole in the bottom to allow drainage).

AUTOMTIC BOLLARDS
With or without LED
4mm, 8mm or 13mm
High-security
with remote control
with badge reader



RETRACTABLE BOLLARDS
With triangular key
With or without LED
114 or 220
with reflective strip



FIXED BOLLARDS
With base
Embedded
With or without LED
High security
In different diameters and heights



**Protection and
guidance for
a range of
applications.**

