

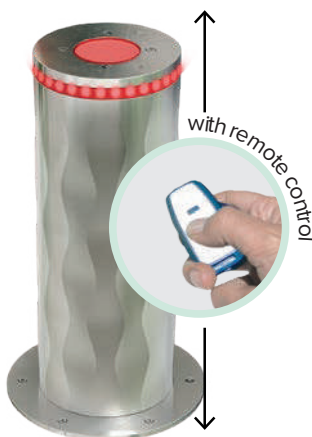


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- Urban
- Light
- Play
- Covers

STAINLESS STEEL AUTOMATIC BOLLARDS

Semi-automatic, high-security
 fixed, removable, flexible...



Automatic Ø220
 Automatic Ø275



Semi-automatic Ø220
 Semi-automatic Ø140
 Semi-automatic Ø114



Removable Ø114



With LED luminous ring

Petrus bollards
 Fixed, made of concrete

SECURITY AND ACCESS CONTROL SOLUTIONS.

- Street lighting
- Urban furniture
- Playground equipment
- Covers and grates

Our experience and continuous research have allowed us to develop a range of bollards **able to meet all needs**, including the most demanding ones.

The success and strength of our products are based on quality as well as our customers' satisfaction. **is the right choice** and we keep proving it in every installation.

Our goal is to maintain a firm commitment to new trends by the specialisation of our research, development and manufacturing departments, thus allowing us to grow.

- Automatic Bollards.
- Security Bollards.
- Semi-Automatic Bollards.
- Removable Bollards.
- Flexible Bollards.
- Rubber Bollards.
- Fixed Bollards.
- Speed Reducers.
- Access Control.
- Automation Accessories.
- Control Equipments.



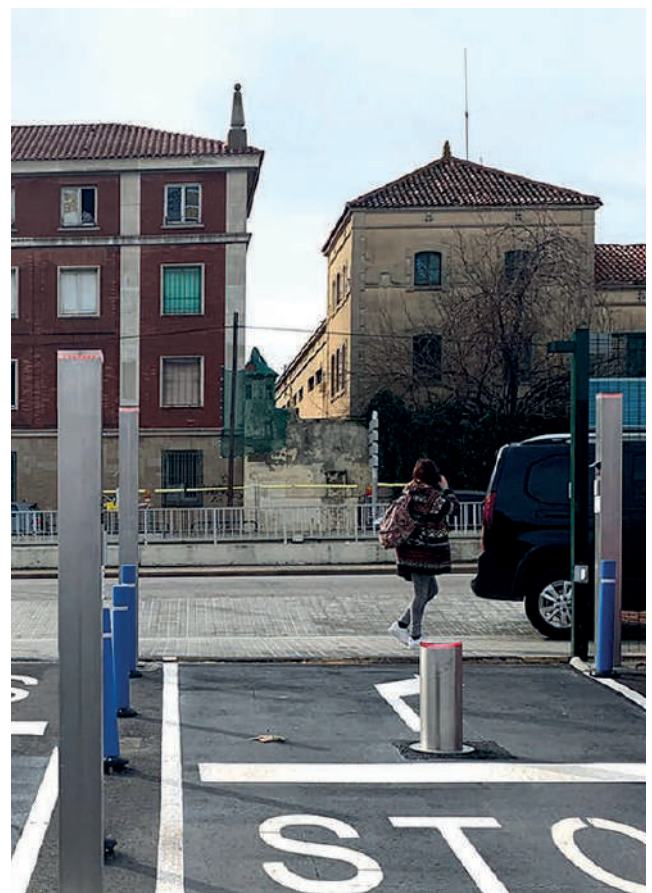
Installation of a 750mm high high-security **automatic bollard** in a car dealership.



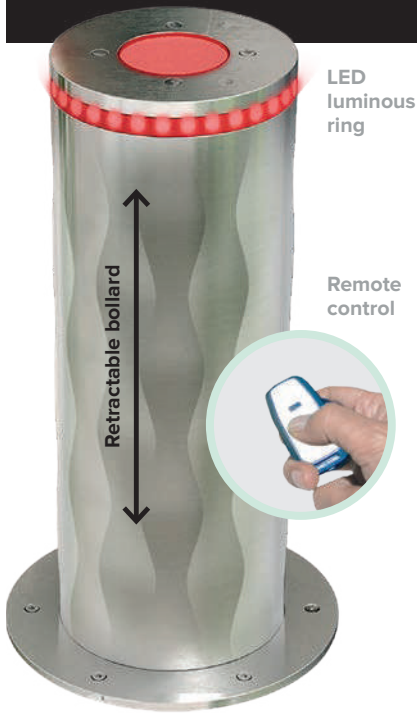
Installation of a 600mm high high-security **AUTOMATIC BOLLARD** in the headquarters of the Spanish Ministry of Defence in the Paseo de la Castellana in Madrid.



Installation of a 600mm high **AUTOMATIC BOLLARD** with two traffic lights. Intercom and pass reader integrated in the stainless steel **TOTEM**.



Automatic bollard with remote control and LED luminous ring, Ø220 and 600mm height



LED
luminous
ring

Remote
control

4mm thickness (reference H6004R)
8mm thickness (reference H6008R)

Bollard designed to control the access to the public road, condominiums, companies, etc.

Operation by remote control or other devices.

High visibility thanks to its LED ring, traffic light function.

Positive security, if the power supply is cut out, the stem lowers.

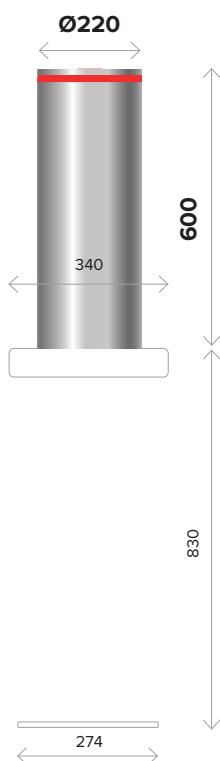
Optional: immediate safety response

The magnetic loop detects vehicles and lowers the bollard automatically. In case of people or other obstacles, a pressure sensor will operate to lower the bollard to the slightest sign of impact.

Red light
Raised position

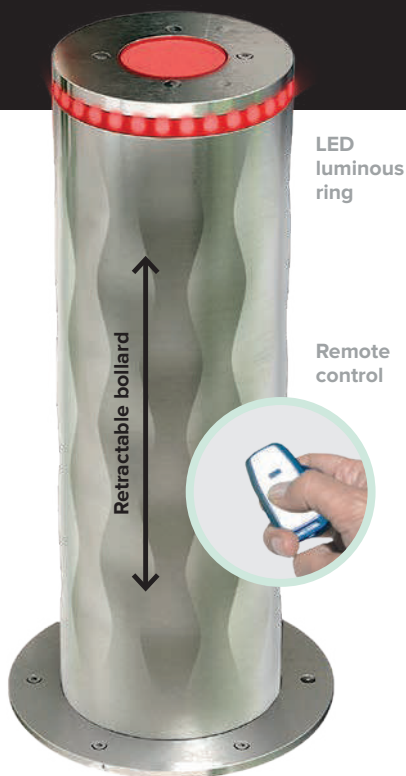


Green light
Lowered position



		H6004R bollard	H6008R bollard
Dimensions and materials	Height from the ground	600mm	600mm
	Bollard diameter	220mm	220mm
	Bollard thickness	4mm	8mm
	Embedding base dimensions	300x300x830mm	340x340x830mm
	Bollard material	Stainless steel	Stainless steel
	Bollard finish	Satin AISI 304	Satin AISI 304
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
	Temperature range	20-°C + 80°C	20-°C + 80°C
	IP Code	IP67	IP67
	Rising strength	1,400NW	1,400NW
	Rising time	4-3 seconds	4-3 seconds
	Lowering time	4-3 seconds	4-3 seconds
	Control module	BC20	BC20
	Impact resistance	100,000 Joules	250,000 Joules
	Luminous ring	Yes, RGB LED	Yes, RGB LED
	Traffic light function	Yes	Yes
Optional features	Reflective band	Optional	Optional
	People and objects safety	Optional	Optional

Automatic bollard with remote control and LED luminous ring, Ø220 and 750mm height



4mm thickness (reference H7504R)
8mm thickness (reference H7508R)

Bollard designed to control the access to the public road, condominiums, companies, etc.

Operation by remote control or other devices.

High visibility thanks to its LED ring, traffic light function.

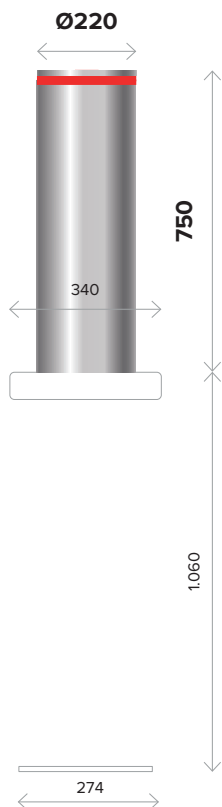
Positive security, if the power supply is cut out, the stem lowers.

Optional: immediate safety response

The magnetic loop detects vehicles and lowers the bollard automatically. In case of people or other obstacles, a pressure sensor will operate to lower the bollard to the slightest sign of impact.

Red light
Raised position

Green light
Lowered position



		H7504R bollard	H7508R bollard
Dimensions and materials	Height from the ground	750mm	750mm
	Bollard diameter	220mm	220mm
	Bollard thickness	4mm	8mm
	Embedding base dimensions	340x340x1,060mm	340x340x1,060mm
	Bollard material	Stainless steel	Stainless steel
	Bollard finish	Satin AISI 304	Satin AISI 304
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
	Temperature range	20-°C + 80°C	20-°C + 80°C
	IP Code	IP67	IP67
	Rising strength	1,400NW	1,400NW
	Rising time	4-3 seconds	4-3 seconds
	Lowering time	4-3 seconds	4-3 seconds
	Control module	BC20	BC20
	Impact resistance	100,000 Joules	250,000 Joules
	Luminous ring	Yes, RGB LED	Yes, RGB LED
	Traffic light function	Yes	Yes
Optional features	Reflective band	Optional	Optional
	People and objects safety	Optional	Optional

Automatic bollard with remote control and LED luminous ring, Ø220 and 600mm height



4mm thickness (reference H6004)
8mm thickness (reference H6008)

Bollard designed to control the access to the public road, condominiums, companies, etc.

Operation by remote control or other devices.

High visibility thanks to its LED ring, traffic light function.

Positive security, if the power supply is cut out, the stem lowers.

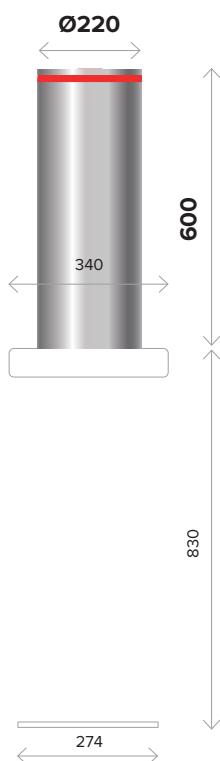
Optional: immediate safety response

The magnetic loop detects vehicles and lowers the bollard automatically. In case of people or other obstacles, a pressure sensor will operate to lower the bollard to the slightest sign of impact.

Red light
Raised position



Green light
Lowered position



		H6004 bollard	H6008 bollard
Dimensions and materials	Height from the ground	600mm	600mm
	Bollard diameter	220mm	220mm
	Bollard thickness	4mm	8mm
	Embedding base dimensions	300x300x830mm	340x340x830mm
	Bollard material	Stainless steel	Stainless steel
	Bollard finish	Satin AISI 304	Satin AISI 304
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
	Temperature range	20-°C + 80°C	20-°C + 80°C
	IP Code	IP67	IP67
	Rising strength	1,400NW	1,400NW
	Rising time	4-3 seconds	4-3 seconds
	Lowering time	4-3 seconds	4-3 seconds
	Control module	BC20	BC20
	Impact resistance	100,000 Joules	250,000 Joules
	Luminous ring	Yes, RGB LED	Yes, RGB LED
	Traffic light function	Yes	Yes
Optional features	Reflective band	Optional	Optional
	People and objects safety	Optional	Optional

Automatic bollard with remote control and LED luminous ring, Ø220 and 750mm height



4mm thickness (reference H7504)
8mm thickness (reference H7508)

Bollard designed to control the access to the public road, condominiums, companies, etc.

Operation by remote control or other devices.

High visibility thanks to its LED ring, traffic light function.

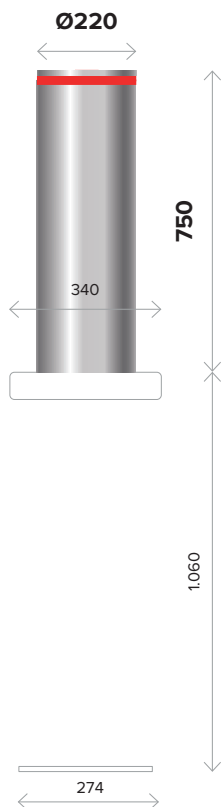
Positive security, if the power supply is cut out, the stem lowers.

Optional: immediate safety response

The magnetic loop detects vehicles and lowers the bollard automatically. In case of people or other obstacles, a pressure sensor will operate to lower the bollard to the slightest sign of impact.

Red light
Raised position

Green light
Lowered position



		H7504 bollard	H7508 bollard
Dimensions and materials	Height from the ground	750mm	750mm
	Bollard diameter	220mm	220mm
	Bollard thickness	4mm	8mm
	Embedding base dimensions	340x340x1,060mm	340x340x1,060mm
	Bollard material	Stainless steel	Stainless steel
	Bollard finish	Satin AISI 304	Satin AISI 304
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
	Temperature range	20-°C + 80°C	20-°C + 80°C
	IP Code	IP67	IP67
	Rising strength	1,400NW	1,400NW
	Rising time	4-3 seconds	4-3 seconds
	Lowering time	4-3 seconds	4-3 seconds
	Control module	BC20	BC20
	Impact resistance	100,000 Joules	250,000 Joules
	Luminous ring	Yes, RGB LED	Yes, RGB LED
	Traffic light function	Yes	Yes
Optional features	Reflective band	Optional	Optional
	People and objects safety	Optional	Optional

Automatic bollard with remote control and LED luminous ring, Ø220 and 13mm thickness



600mm height (reference H60013)
750mm height (reference H75013)

Bollard designed to increase security in sensitive buildings, car dealerships, companies, airports, etc.

Operation by remote control or other devices.

High visibility thanks to its LED ring, traffic light function.

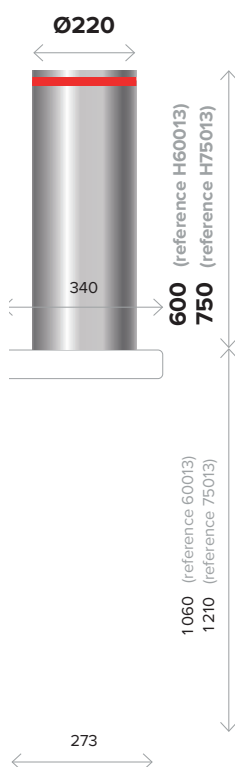
Negative security, if the power supply is cut out, the stem does not lower.

Optional: immediate safety response

The magnetic loop detects vehicles and lowers the bollard automatically. In case of people or other obstacles, a pressure sensor will operate to lower the bollard to the slightest sign of impact.

Red light
Raised position

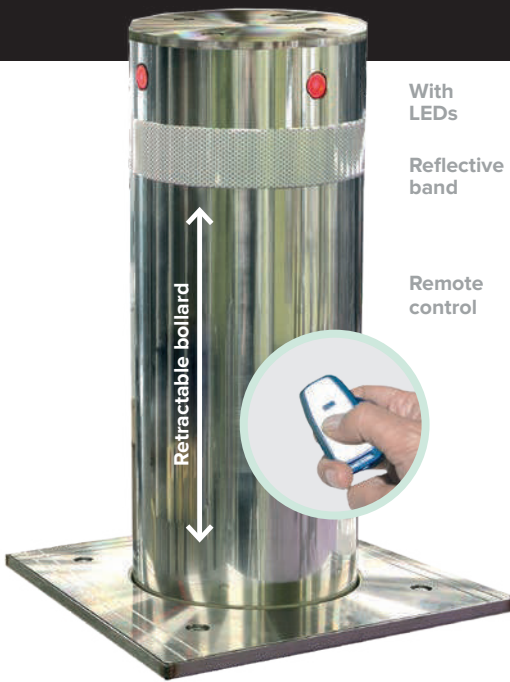
Green light
Lowered position



		H60013 bollard	H75013 bollard
Dimensions and materials	Height from the ground	600mm	750mm
	Bollard diameter	220mm	220mm
	Bollard thickness	13mm	13mm
	Embedding base dimensions	340x340x1.060mm	340x340x1.060mm/1.210mm
	Bollard material	Stainless steel	Stainless steel
	Bollard finish	Satin AISI 304	Satin AISI 304
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
	Temperature range	20-°C + 80°C	20-°C + 80°C
	IP Code	IP67	IP67
	Rising strength	1,400NW	1,400NW
	Rising time	4-3 seconds	4 seconds
	Lowering time	4-3 seconds	4 seconds
	Control module	BC20	BC20
	Impact resistance	750,000 Joules	750,000 Joules
	Luminous ring	Yes, RGB LED	Yes, RGB LED
	Traffic light function	Yes	Yes
Optional features	Reflective band	Optional	Optional
	People and objects safety	Optional	Optional

Automatic bollard with remote control, reflective band and 4 LEDs, Ø275 and 600mm height

reference H275AHG



Bollard designed to control the access to the public road, condominiums, companies, etc.

Operation by remote control or other devices.

High visibility thanks to its LED ring, traffic light function.

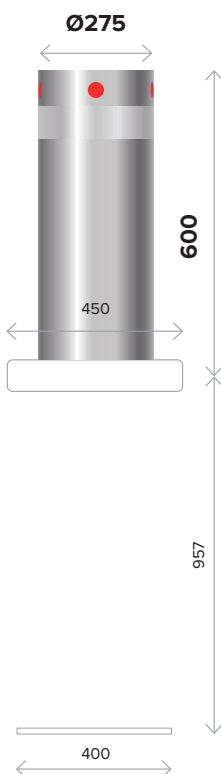
Positive security, if the power supply is cut out, the stem lowers.

Optional: immediate safety response

The magnetic loop detects vehicles and lowers the bollard automatically. In case of people or other obstacles, a pressure sensor will operate to lower the bollard to the slightest sign of impact.

Raised position

Lowered position



H275AHG bollard

Dimensions and materials	Height from the ground Bollard diameter Bollard thickness Embedding base dimensions Bollard material Bollard finish	600mm 275mm 4mm 450x450x1,000mm Stainless steel Satin AISI 304
Characteristics	Voltage Consumption Engine power	230V 50Hz 700W 300W (3,000rpm)
Functional features	Speed Temperature range IP Code Rising strength Rising time Lowering time Control module Impact resistance Luminous ring Traffic light function	90mm/s 130mm/s 20-°C + 80°C IP67 1,400NW 4-3 seconds 4-3 seconds BC20 120,000 Joules Yes, RGB LED Yes
Optional features	People and objects safety	Optional

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

How to lower the bollard?

Remote control and radio receiver to activate the automatic bollard.



Proximity reader via radio for **proximity key rings or passes**.



Long range reader **similar to electronic tolls** to detect the pass automatically.



Electric lock to **lower automatic bollards with a key**.



How to communicate with us if there is an incident?

Thanks to the **video intercom kit**, we receive the video call on a mobile phone or control tablet.



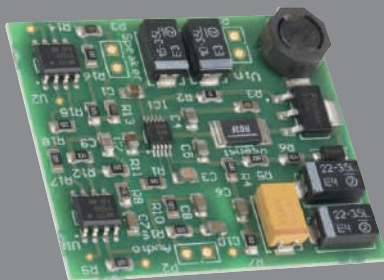
How to allow an easy access to users?

For regular users, **enter their plate number in the database** so that the automatic bollard lowers after the plate is read.



What happens if an **emergency vehicle** needs to access a restricted area?

Allows the entry of ambulances, firefighters or the police **without having to stop**. Thanks to the **sound detector**, the bollard lowers when sirens are on.



Which components need to be installed to control the bollard remotely?



Routers to control the bollard remotely from a PC. These devices **inform if there is a fault as well as allowing the user to know the condition of the bollard and solve problems remotely.** The ideal solution to control the bollard remotely.
Optional: WIFI, GSM or ETHERNET.



In case of incident, **the bollards can be lowered via a free phone call** thanks to a module which integrates a SIM card.



Timer to program the operation of the bollard: daily or weekly schedule, etc.



You do not have an electrical installation?



Solar-powered system to supply voltage (230V) to automatic bollards.



Power kit with batteries for automatic bollards that charge at night, using the street lighting installation.



Other accessories for installations with automatic bollards.



Heating kit for the automatic bollard to **prevent the freezing of bollards installed in cold environments,** with automatic control.



Traffic light with LED technology for outdoors, resistant to water and moisture.



Stainless steel **control totem** with LED luminous ring, **traffic light function.**



Metallic mass detector to **detect the presence of vehicles,** preventing the bollard from rising, thus avoiding impacts.



Semi-automatic bollard with reflective band, Ø114mm and 500mm height



Reflective band

4mm thickness (reference H1144)

10mm triangular key

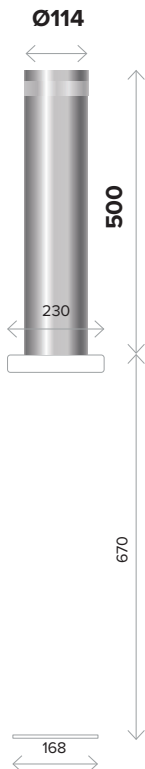


Bollard designed to control the access to the public road, condominiums, companies, etc.

Automatic rising, easy and quick, manual lowering.

Automatic locking in both raised and lowered positions, unlocking by means of a DIN3223 triangular key.

OPTIONAL: special key.



H1144 bollard

Dimensions and materials	Height from the ground	500mm
	Bollard diameter	114mm
	Bollard thickness	4mm
	Embedding base dimensions	230x230x680mm
	Bollard material	Stainless steel
	Bollard finish	Satin AISI 304
Functional features	Rising mechanism	Gas spring
	Rising strength	300 Newton
	Lowering mechanism	Manual
	Reflective band	Yes
	LED ring	No
	Operation key	10mm triangular
	Impact resistance	25,000 Joules
Normal use cycles	More than 500,000	

Semi-automatic bollard with reflective band, Ø220mm and 500mm height



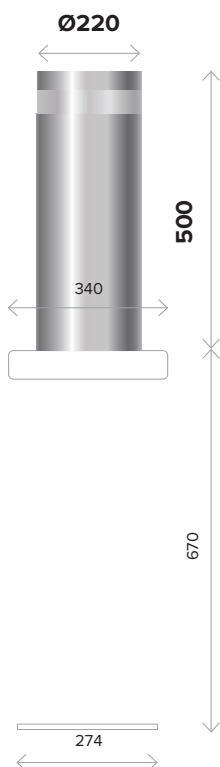
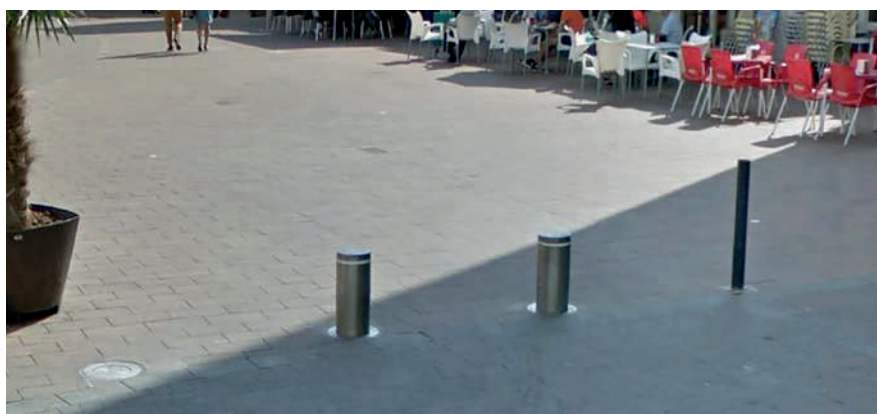
4mm thickness (reference H2204)
8mm thickness (reference H2208)

Bollard designed to control the access to the public road, condominiums, companies, etc.

Automatic rising, easy and quick, manual lowering.

Automatic locking in both raised and lowered positions, unlocking by means of a DIN3223 triangular key.

OPTIONAL: special key.



		H2204 bollard	H2208 bollard
Dimensions and materials	Height from the ground	500mm	500mm
	Bollard diameter	220mm	220mm
	Bollard thickness	4mm	8mm
	Embedding base dimensions	340x340x670mm	340x340x680mm
	Bollard material	Stainless steel	Stainless steel
	Bollard finish	Satin AISI 304	Satin AISI 304
Functional features	Rising mechanism	Gas spring	Gas spring
	Rising strength	400 Newton	400 Newton
	Lowering mechanism	Manual	Manual
	Reflective band	Yes	Yes
	LED ring	No	No
	Operation key	10mm triangular	10mm triangular
	Impact resistance	40,000 Joules	80,000 Joules
Normal use cycles	More than 500,000	More than 500,000	

Semi-automatic bollard with LED luminous ring, Ø220 and 500mm height



LED
luminous
ring

10mm
triangular
key

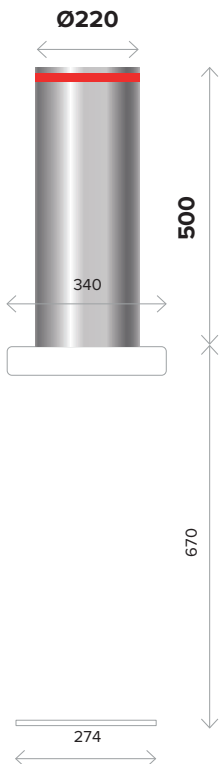
4mm thickness (reference H220L4)
8mm thickness (reference H220L8)

Bollard designed to control the access to the public road, condominiums, companies, etc.

Automatic rising, easy and quick, manual lowering.

Automatic locking in both raised and lowered positions, unlocking by means of a DIN3223 triangular key.

OPTIONAL: special key.



		H220L4 bollard	H220L8 bollard
Dimensions and materials	Height from the ground	500mm	500mm
	Bollard diameter	220mm	220mm
	Bollard thickness	4mm	8mm
	Embedding base dimensions	340x340x680mm	340x340x680mm
	Bollard material	Stainless steel	Stainless steel
	Bollard finish	Satin AISI 304	Satin AISI 304
Functional features	Rising mechanism	Gas spring	Gas spring
	Rising strength	400 Newton	400 Newton
	Lowering mechanism	Manual	Manual
	Reflective band	No	No
	LED ring	Yes	Yes
	Operation key	10mm triangular	10mm triangular
	Impact resistance	40,000 Joules	80,000 Joules
	Normal use cycles	More than 500,000	More than 500,000

Semi-automatic bollard with two reflective bands, Ø140 and 500mm height

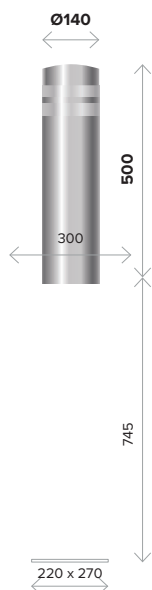
reference H275TR



Bollard designed to control the access to the public road, condominiums, companies, etc.

Automatic rising, easy and quick, manual lowering.

Automatic locking in both raised and lowered positions, unlocking by means of a DIN3223 triangular key.



		275TR bollard
Dimensions and materials	Height from the ground	500mm
	Bollard diameter	140mm
	Bollard thickness	2mm
	Embedding base dimensions	300x300x750mm
	Bollard material	Stainless steel
	Bollard finish	Satin AISI 304
Functional features	Rising mechanism	Gas spring
	Rising strength	400 Newton
	Lowering mechanism	Manual
	Reflective band	Yes
	LED ring	No
	Operation key	10mm triangular
	Impact resistance	6,000 Joules
	Normal use cycles	More than 500,000

Embedded fixed bollard

Ø220 or Ø114



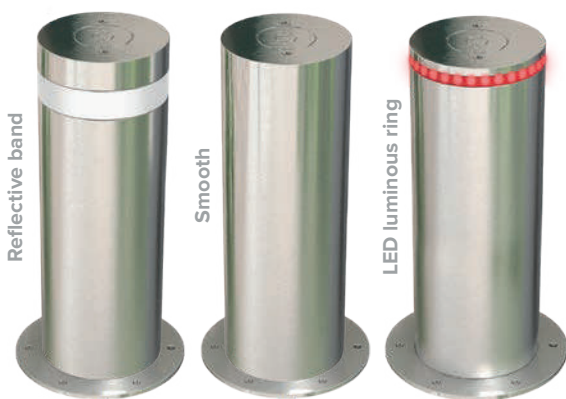
4mm or 8mm tube thickness
800mm / 900mm / 1,000mm / 1,200mm total height

Bollard designed to prevent the passage of vehicles permanently.

Dimensions and materials		HE114 bollard	HE220 bollard
		Total height	1,200 / 1,000 / 900 / 800mm
Bollard diameter		Ø114mm	Ø220mm
Bollard thickness		4mm / 8mm	4mm / 8mm
Bollard material		Stainless steel	Stainless steel
Bollard finish		Satin AISI 304	Satin AISI 304

Fixed bollard with base

Ø220 or Ø114



4mm or 8mm tube thickness
800mm / 900mm / 1000mm / 1,200mm total height

Bollard designed to prevent the passage of vehicles permanently on grounds in which embedding is impossible.

Dimensions and materials		HP114 bollard	HP220 bollard
		Total height	1,200 / 1,000 / 900 / 800mm
Bollard diameter		Ø114mm	Ø220mm
Bollard thickness		4mm / 8mm	4mm / 8mm
Bollard material		Stainless steel	Stainless steel
Bollard finish		Satin AISI 304	Satin AISI 304

High-security fixed bollard Ø220 and 8mm tube thickness



1,200mm height (reference **HS1200**)
1,500mm height (reference **HS1500**)

Bollard designed to prevent the passage of vehicles permanently in sensitive areas which require a high-security protection.

Dimensions and materials	HS1200 bollard	HS1500 bollard
Height from the ground	1,200mm	1,500mm
Bollard diameter	Ø220mm	Ø220mm
Bollard thickness	4mm / 8mm	4mm / 8mm
Bollard material	Stainless steel	Stainless steel
Bollard finish	Satin AISI 304	Satin AISI 304

Removable bollard Ø114 with reflective band, 4mm tube thickness and 800mm height

reference **HEXT**



Bollard designed to prevent the passage of vehicles in pedestrian areas with the possibility of removing it when necessary.

Unlocking with 10mm triangular key

Dimensions and materials	HEXT bollard
Height from the ground	800mm
Bollard diameter	114mm
Bollard thickness	4mm
Embedding base dimensions	200 x 168 x 168mm
Bollard material	Stainless steel
Bollard finish	Satin AISI 304
Optional features	Reflective band LED ring
	Optional No

Embedded fixed bollard with LED ring

Petrus LED H374L

800mm total height



**Fixed bollard made of precast concrete,
with LED luminous ring.**

bollard H374L

Dimensions
and materials

Total height
Bollard diameter
Bollard material

800mm
220mm
Precast concrete

Embedded fixed bollard

Petrus H374

785mm total height



**Fixed bollard made of precast concrete,
with stainless steel decorative cover.**

bollard H374

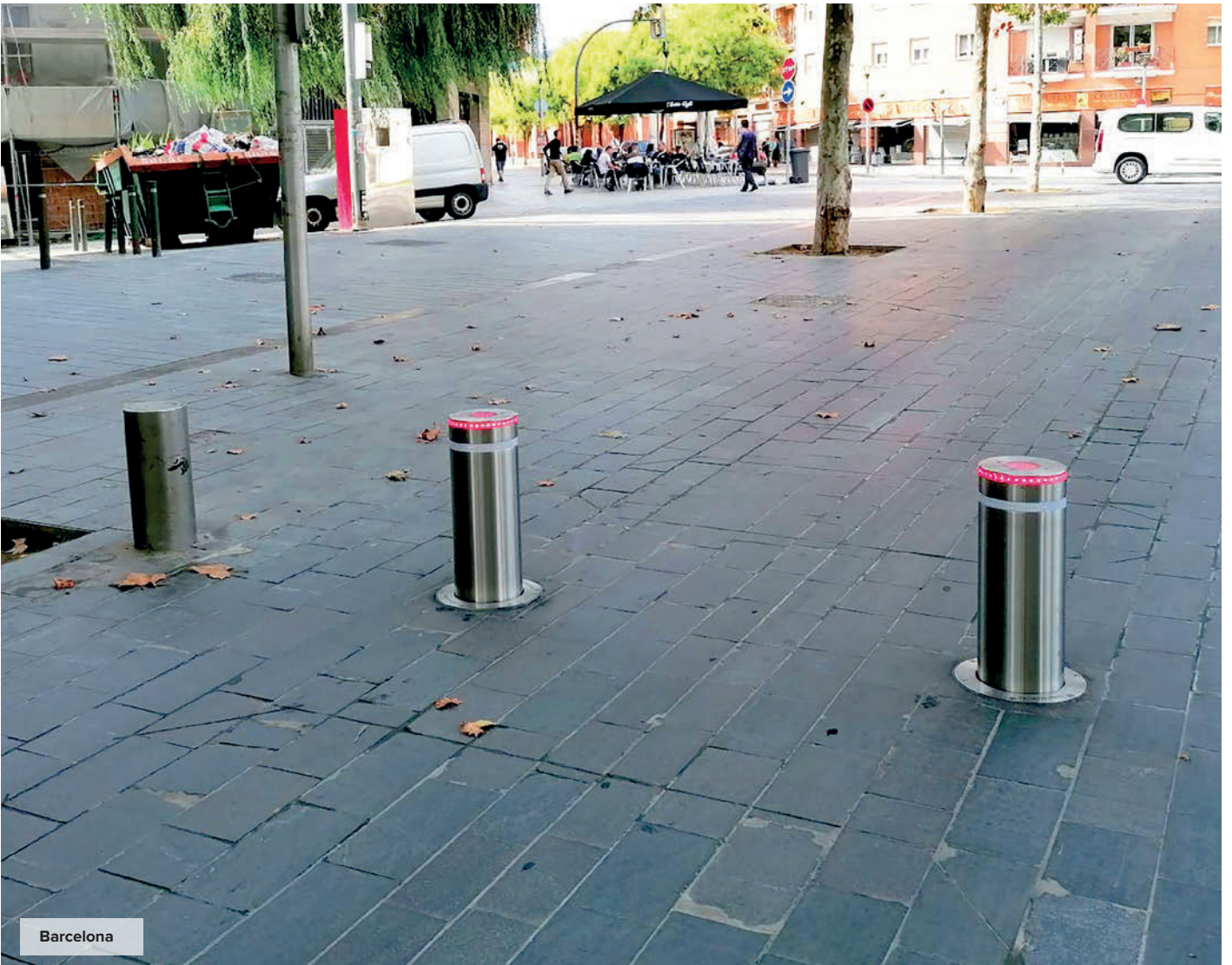
Dimensions
and materials

Total height
Bollard diameter
Bollard material

785mm
220mm
Precast concrete

Installation of a 600mm high **automatic bollard** and flexible bollards with LED luminous ring powered by solar energy.





Barcelona



Madrid



Madrid



Girona



Barcelona



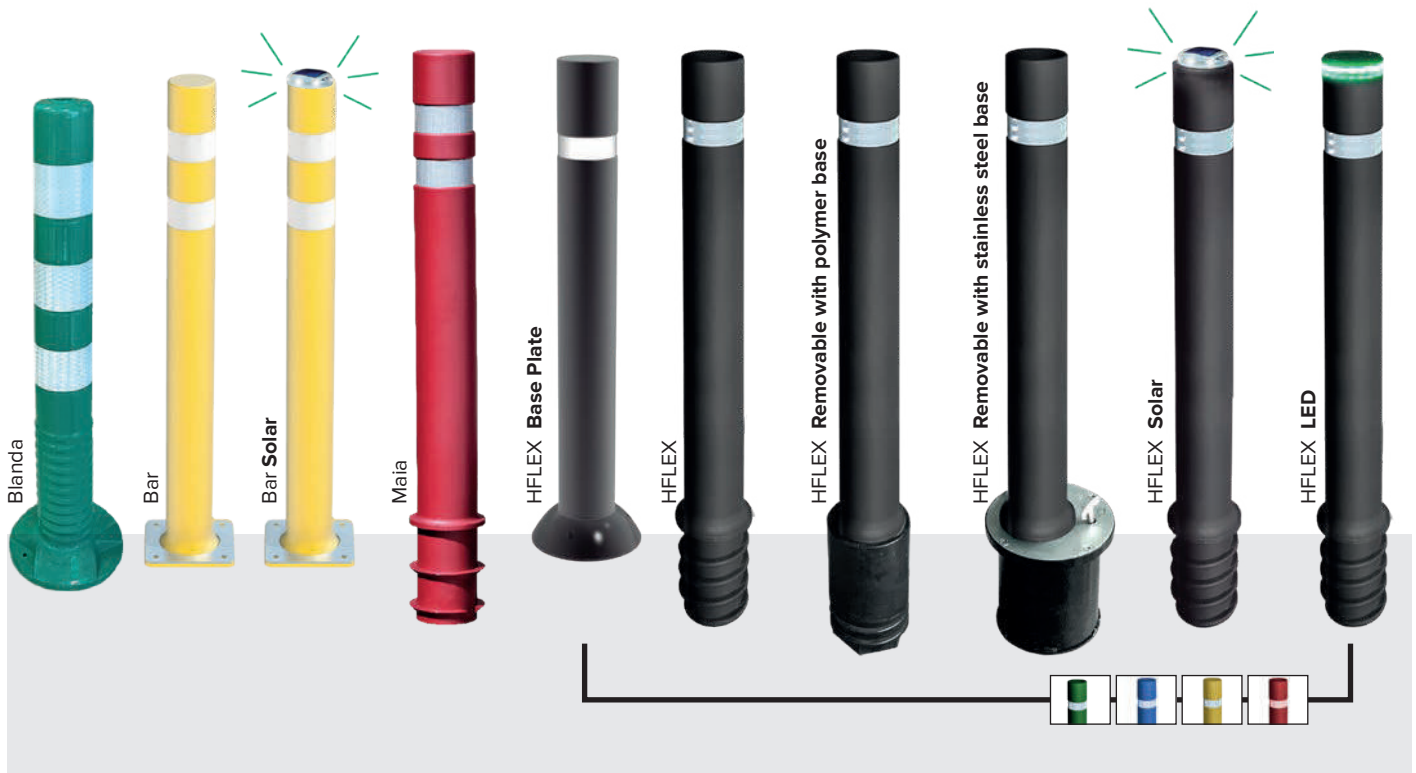
Guadalajara

FLEXIBLE BOLLARDS

made of polyurethane



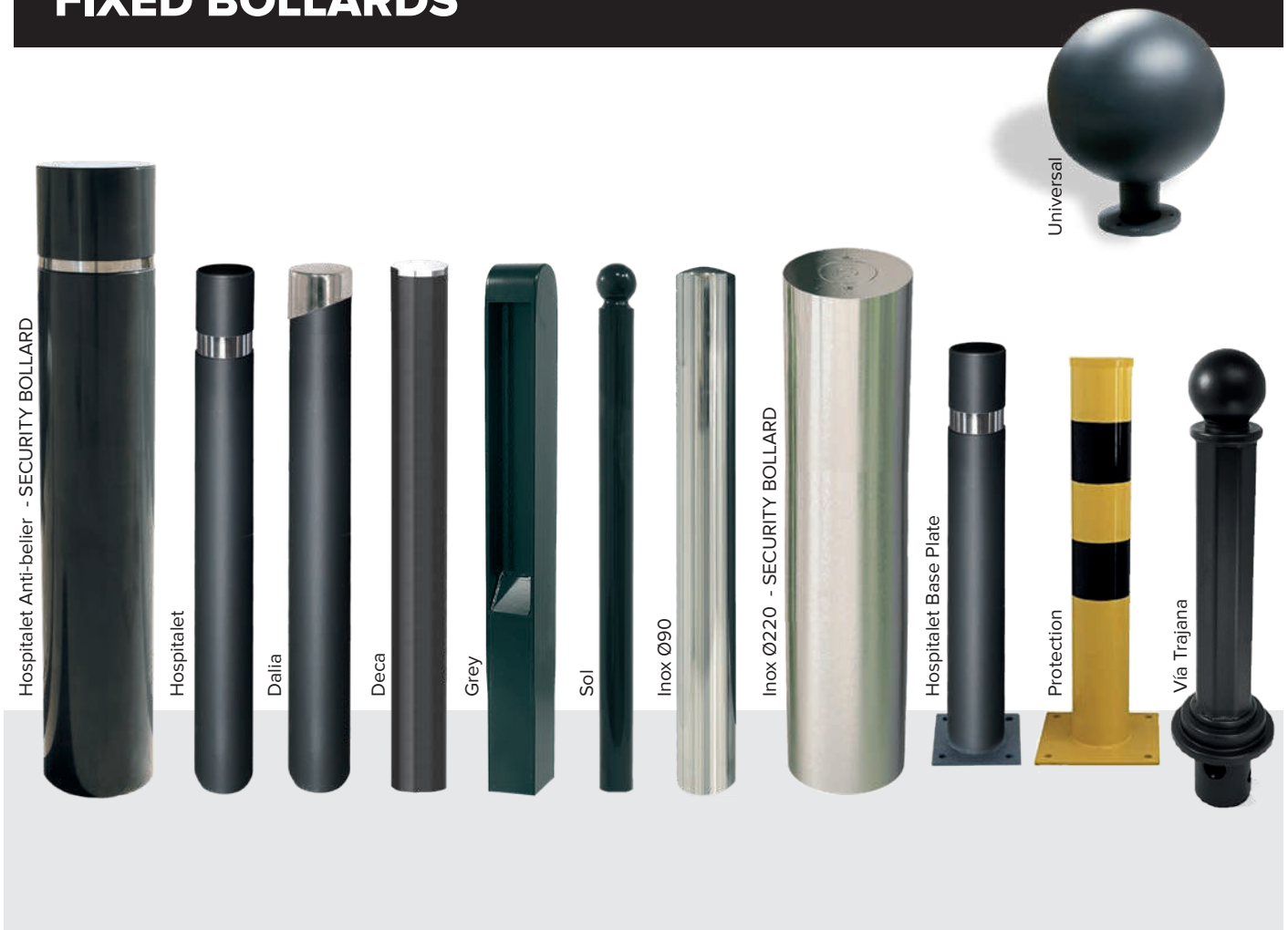
FIXED and REMOVABLE



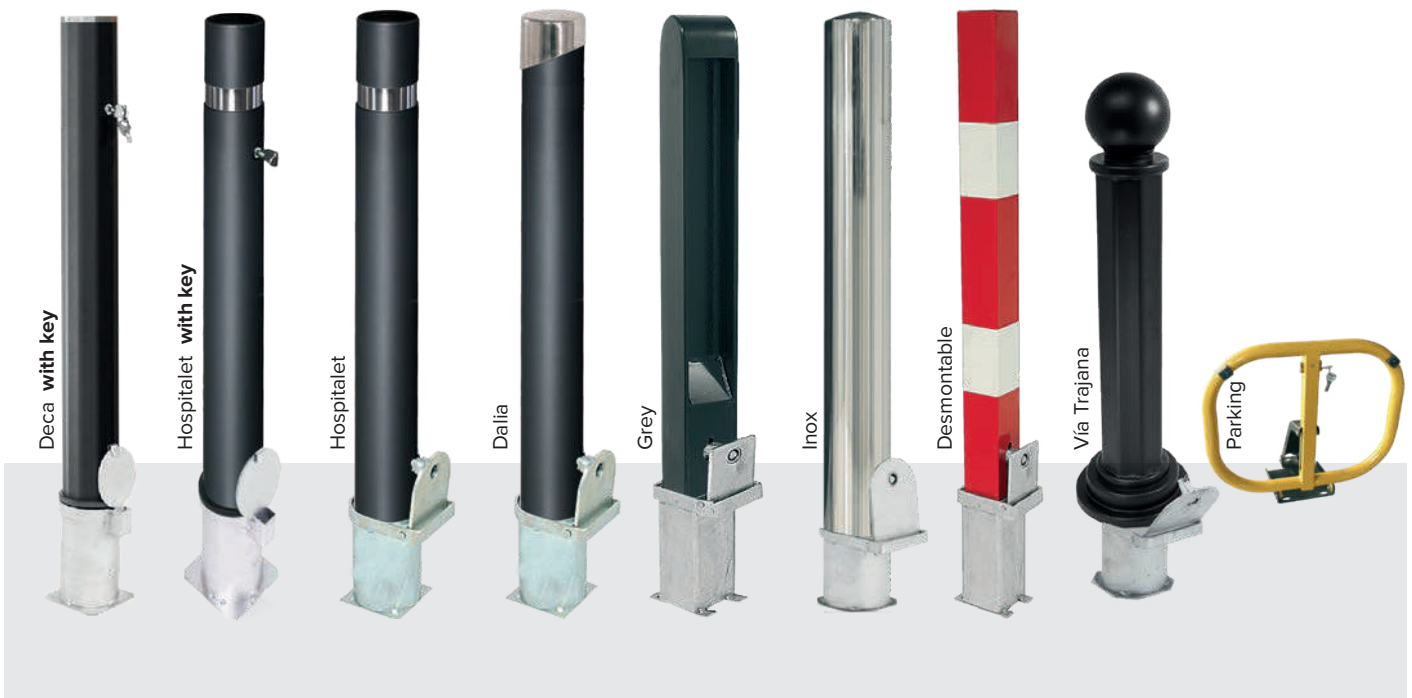
SEMI-FLEXIBLE BOLLARDS



FIXED BOLLARDS



REMOVABLE BOLLARDS



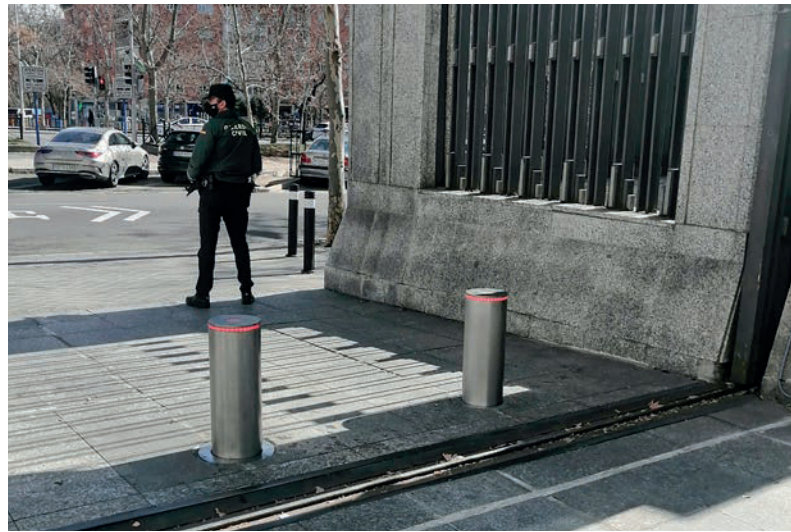
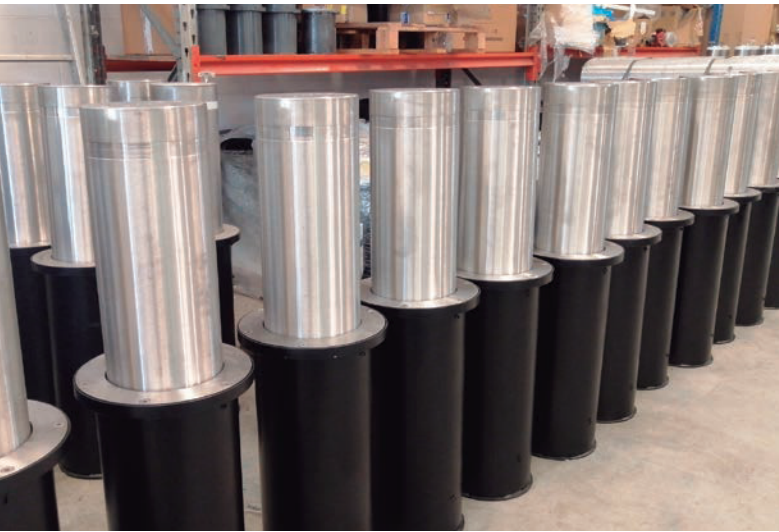
**8, 4 OR 13mm
HIGH-SECURITY
AUTOMATIC BOLLARDS
WITH OR WITHOUT LED,
WITH REMOTE CONTROL
OR PASS**



**MANUAL RETRACTABLE BOLLARDS
WITH TRIANGULAR KEY
WITH OR WITHOUT LED,
Ø114 OR Ø220
WITH REFLECTIVE BAND**



**EMBEDDED
HIGH-SECURITY
FIXED BOLLARDS
WITH BASE
WITH OR WITHOUT LED
OF DIFFERENT DIAMETERS AND HEIGHTS**



Pedestrianise an area, increase the security of specific places, control access to urban areas, etc.

You don't know where to start?
**WE ADVISE YOU WITHOUT
OBLIGATION!**


Once the bollard is installed...

YOU ARE NOT LEFT ON YOUR OWN

24h TECHNICAL SUPPORT
quick delivery of spare parts

More information:



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Street Furniture



Street Lighting



Play Equipment



Covers and Grates