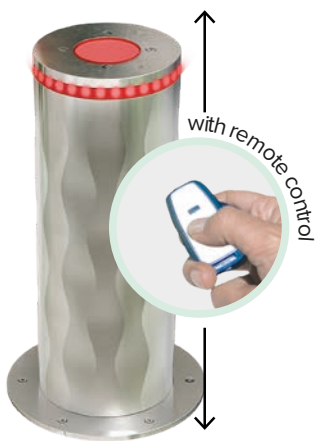# BENITO

–Urban
–Light
–Play
–Covers

STAINLESS STEEL

AUTOMATIC BOLLARDS

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

with remote control

Automatic Ø220
Automatic Ø275

with key

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

with key

Removable **Ø114**

With LED luminous ring

Petrus bollards
Fixed, made of concrete

SECURITY AND ACCESS CONTROL SOLUTIONS.

BENITO

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. BENITO 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.**

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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

Retractable bollard

Remote control

4mm thickness   (reference H**6004R**)
8mm thickness   (reference H**6008R**)

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**.

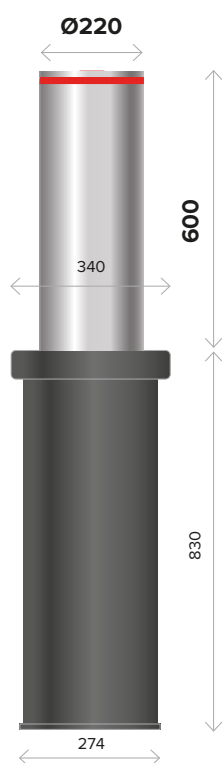**Positive security,** if the power supply is cut out, the stem lowers.

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.
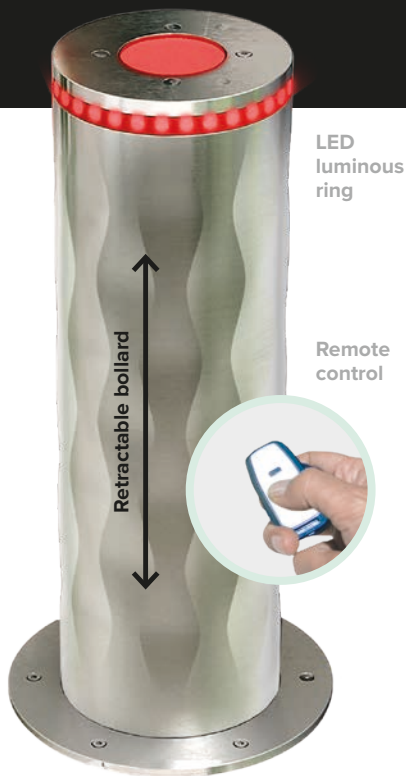
Red light
Raised position

Green light
Lowered position

Ø220

600

340

830

274

		H**6004R** bollard	H**6008R** 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	-20ºC + 80ºC	-20ºC + 80ºC
	IP Code	IP67	IP67
	Rising strength	1,400NW	1,400NW
	Rising time	3-4 seconds	3-4 seconds
	Lowering time	3-4 seconds	3-4 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

LED luminous ring

4mm thickness (reference H**7504R**)
8mm thickness (reference H**7508R**)

Remote control

Retractable bollard

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

Ø220

750

340

1.060

274
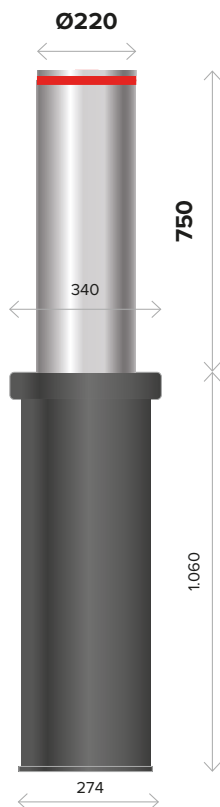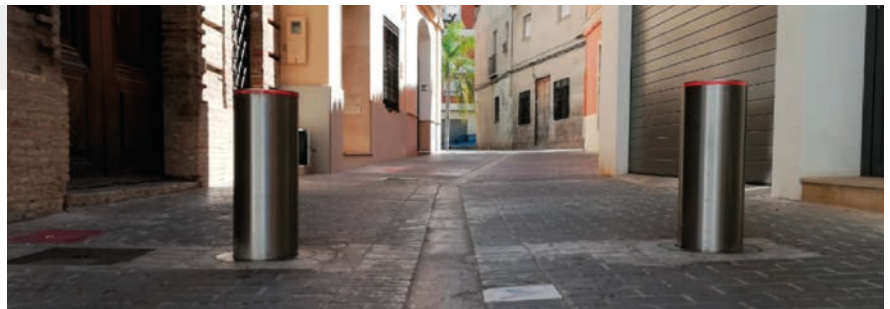
		H**7504R** bollard	H**7508R** bollard
Dimensions and materials	Height from the ground	750mm	750mm
	Bollard diameter	220mm	220mm
	Bollard thickness	**4mm**	**8mm**
	Embedding base dimensions	340x340x1,060mm	340x340x1,060mm
	Bollard material	Stainless steel	Stainless steel
	Bollard finish	Satin AISI 304	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	-20ºC + 80ºC	-20ºC + 80ºC
	IP Code	IP67	IP67
	Rising strength	1,400NW	1,400NW
	Rising time	3-4 seconds	3-4 seconds
	Lowering time	3-4 seconds	3-4 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

LED luminous ring

4mm thickness   (reference H**6004**)
8mm thickness   (reference H**6008**)

Retractable bollard

Remote control

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.

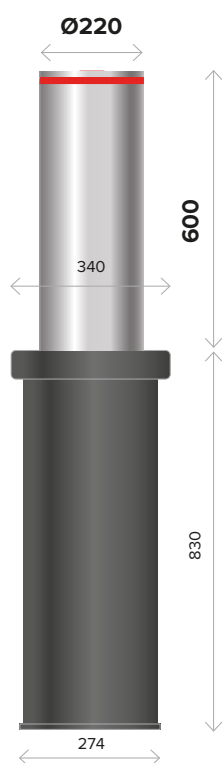**Optional: immediate safety response**
The magnetic loop detects vehicles and lowers the bollard automatically. In case of people or other obstacles, a pressure sensor will operate to lower the bollard to the slightest sign of impact.

Red light
Raised position

Green light
Lowered position

Ø220

600

340

830

274

		H**6004** bollard	H**6008** 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	-20ºC + 80ºC	-20ºC + 80ºC
	IP Code	IP67	IP67
	Rising strength	1,400NW	1,400NW
	Rising time	3-4 seconds	3-4 seconds
	Lowering time	3-4 seconds	3-4 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

6

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

LED luminous ring

4mm thickness (reference H**7504**)
8mm thickness (reference H**7508**)

Retractable bollard

Remote control

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

Ø220

750

340

1.060

274
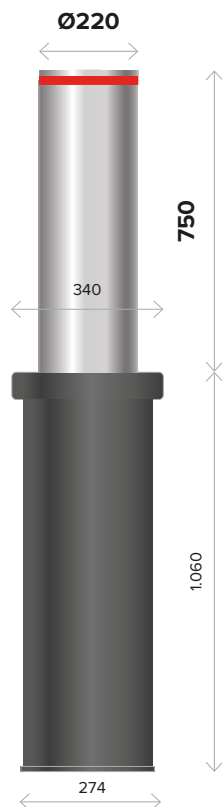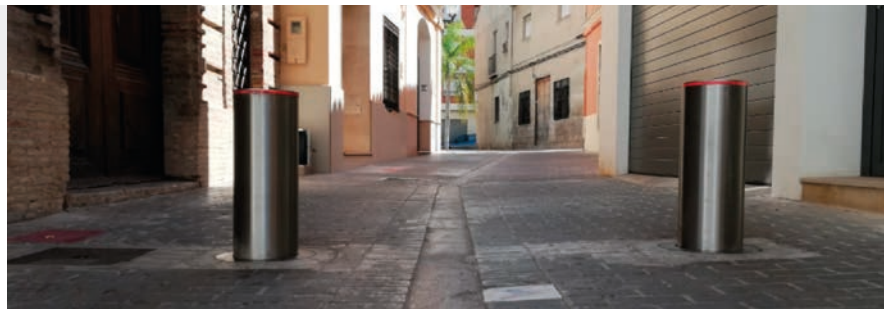
		H7504 bollard	**H7508** bollard
Dimensions and materials	Height from the ground	750mm	750mm
	Bollard diameter	220mm	220mm
	Bollard thickness	**4mm**	**8mm**
	Embedding base dimensions	340x340x1,060mm	340x340x1,060mm
	Bollard material	Stainless steel	Stainless steel
	Bollard finish	Satin AISI 304	Satin 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	-20ºC + 80ºC	-20ºC + 80ºC
	IP Code	IP67	IP67
	Rising strength	1,400NW	1,400NW
	Rising time	3-4 seconds	3-4 seconds
	Lowering time	3-4 seconds	3-4 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 H**60013**)
750mm height (reference H**75013**)

Pilona retráctil

Círdona luminosa LED

Mando distancia

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

Operation by remote control or other devices.

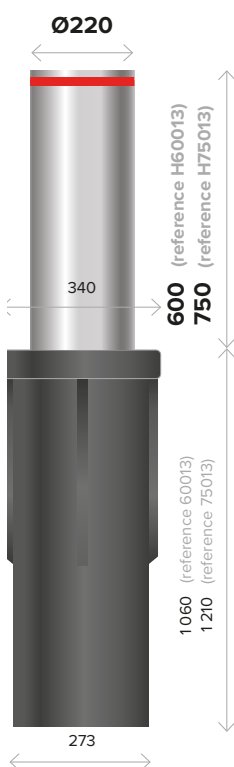High visibility thanks to its **LED ring, traffic light function**.

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	Green light
Raised position	Lowered position

Ø220

340

600 (reference H60013)
750 (reference H75013)

1060 (reference 60013)
1 210 (reference 75013)

273

		H**60013** bollard	H**75013** 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	-20ºC + 80ºC	-20ºC + 80ºC
	IP Code	IP67	IP67
	Rising strength	1,400NW	1,400NW
	Rising time	3-4 seconds	4 seconds
	Lowering time	3-4 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

With
LEDs

Reflective
band

Remote
control

reference H**275AHG**

Retractable bollard

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

Ø275

600

450

957

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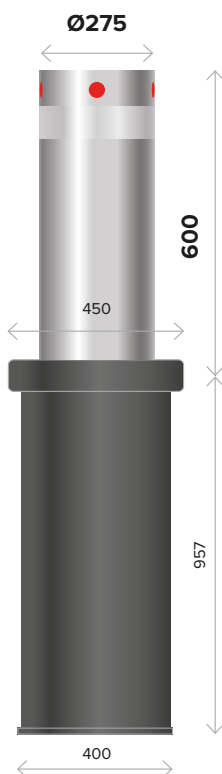
		H**275AHG** bollard
Dimensions and materials	Height from the ground	600mm
	Bollard diameter	275mm
	Bollard thickness	4mm
	Embedding base dimensions	450x450x1,000mm
	Bollard material	Stainless steel
	Bollard finish	Satin AISI 304
Characteristics	Voltage	230V 50Hz
	Consumption	700W
	Engine power	300W (3,000rpm)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

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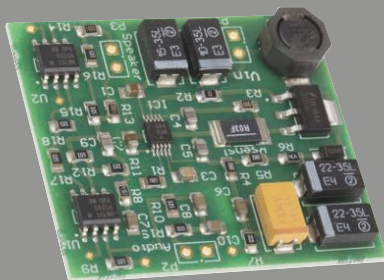
Which components need to be installed to **control the bollard remotely**?

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.

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

4mm thickness   (reference H**1144**)

Reflective band
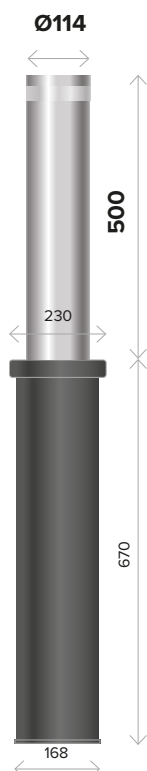
Retractable bollard

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.

Ø114

500

230

670

168

		H**1144** 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

Reflective band

10mm triangular key

Retractable bollard
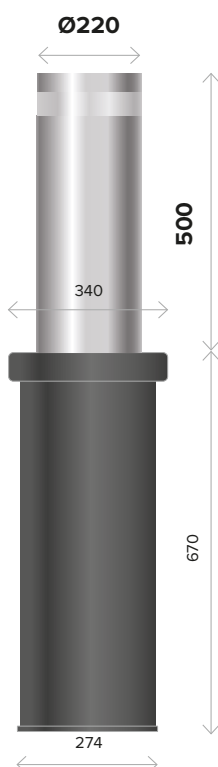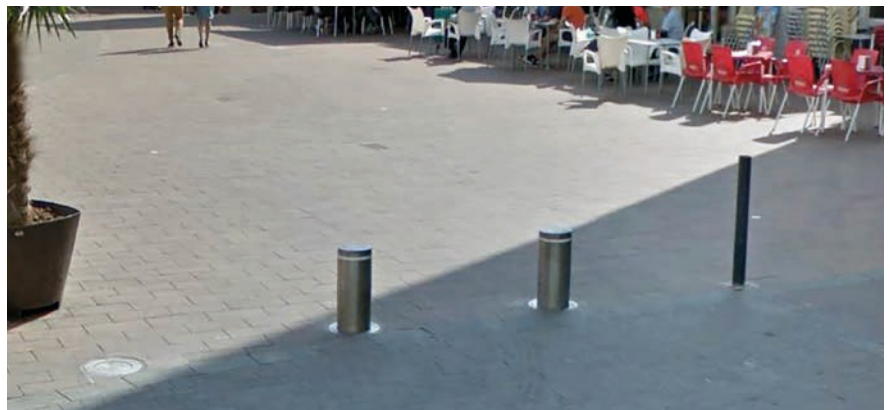
4mm thickness   (reference H**2204**)
8mm thickness   (reference H**2208**)

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.

Ø220

500

340

670

274

		H**2204** bollard	H**2208** 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**

Retractable bollard

4mm thickness   (reference H**220L4**)
8mm thickness   (reference H**220L8**)

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.

Ø220

500

340

670

274
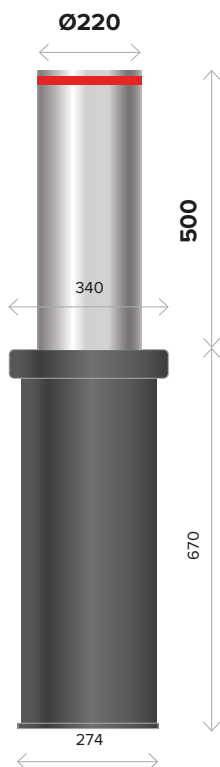
		H**220L4** bollard	H**220L8** bollard
Dimensions and materials	Height from the ground	500mm	500mm
	Bollard diameter	220mm	220mm
	Bollard thickness	**4mm**	**8mm**
	Embedding base dimensions	340x340x680mm	340x340x680mm
	Bollard material	Stainless steel	Stainless steel
	Bollard finish	Satin AISI 304	Satin 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

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

reference H**275TR**

Reflective bands

10mm triangular key

Retractable bollard
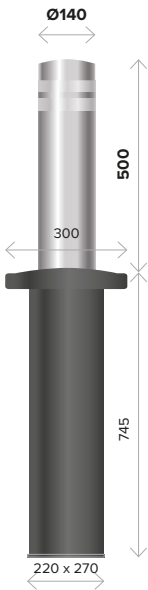
Bollard designed to control the access to the public road, condominiums, companies, etc.
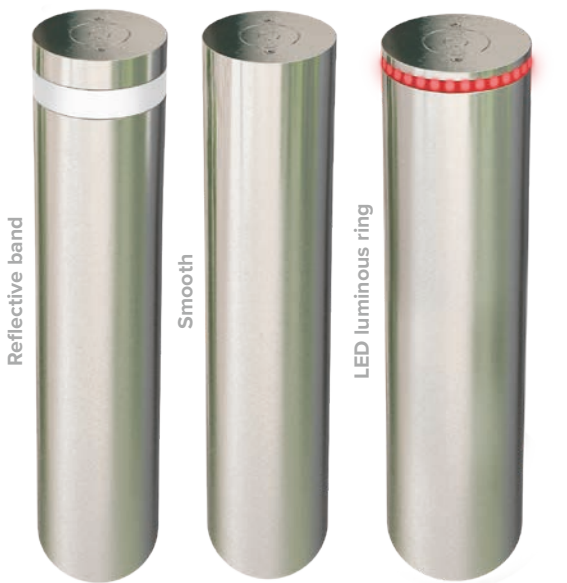
Automatic rising, easy and quick, manual lowering.

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

Ø140

500

300

745

220 x 270

		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

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Embedded fixed bollard
Ø220 or Ø114

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

Reflective band

Smooth

LED luminous ring

Bollard designed to prevent the passage of vehicles permanently.

		H**E114** bollard	H**E220** bollard
Dimensions and materials	Total height	800 / 900 / 1,000 / 1,200mm	800 / 900 / 1,000 / 1,200mm
	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

Reflective band

Smooth

LED luminous ring

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

		H**P114** bollard	H**P220** bollard
Dimensions and materials	Total height	800 / 900 / 1,000 / 1,200mm	800 / 900 / 1,000 / 1,200mm
	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 H**S1200**)
1,500mm height (reference H**S1500**)

Reflective band / 1,200 - 1,500mm height

Smooth / 1,200 - 1,500mm height

LED luminous ring / 1,200 - 1,500mm height

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

		H**S1200** bollard	H**S1500** bollard
Dimensions and materials	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 H**EXT**

10mm triangular key

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

Unlocking with 10mm triangular key

		H**EXT** bollard
Dimensions and materials	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	Optional
	LED ring	No

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Embedded fixed bollard with LED ring
Petrus LED H374L

800mm total height

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

bollard H**374L**

Dimensions and materials		
	Total height	800mm
	Bollard diameter	220mm
	Bollard material	Precast concrete

Embedded fixed bollard
Petrus H374

785mm total height

Fixed bollard made of precast concrete, with stainless steel decorative cover.
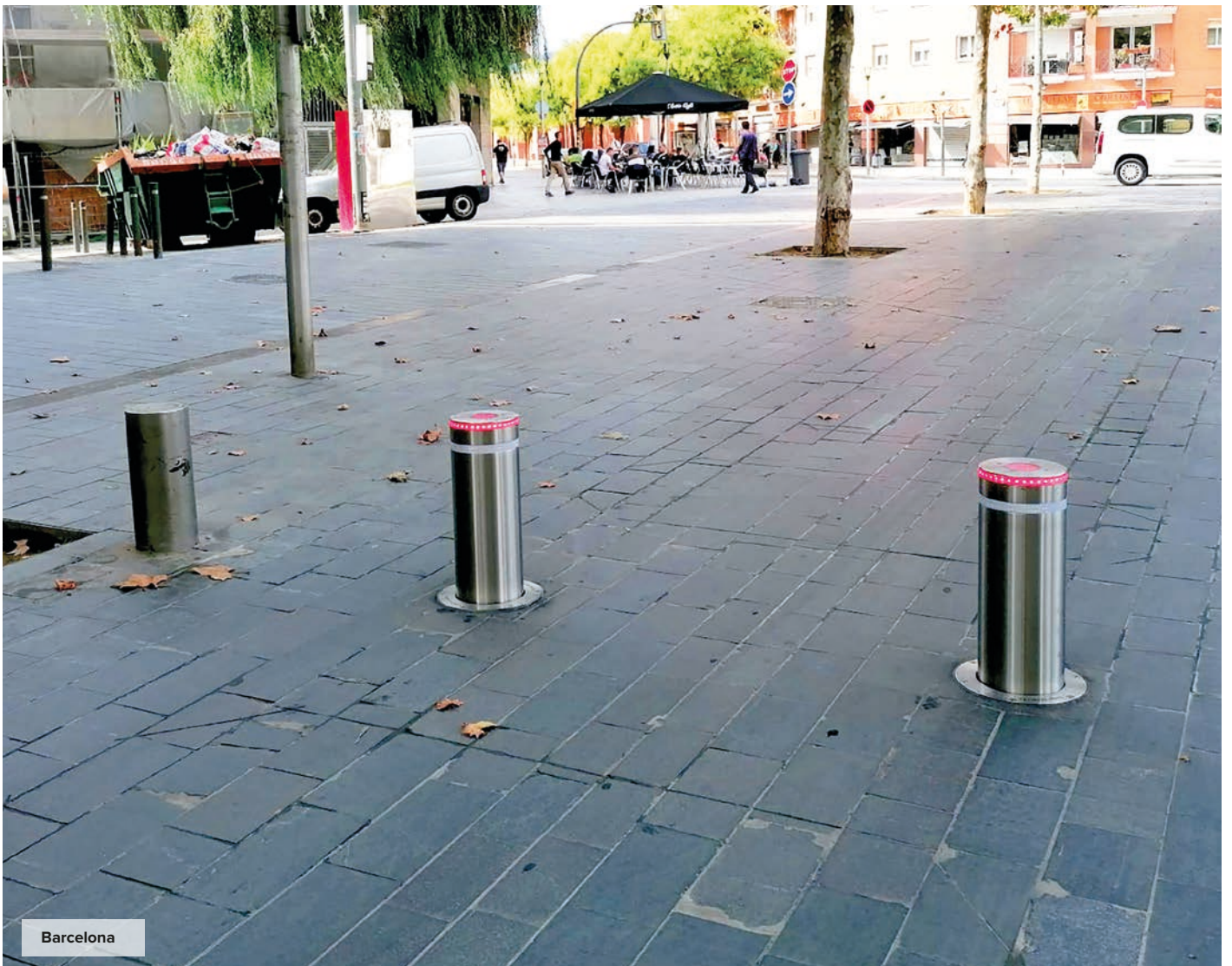
bollard H**374**

Dimensions and materials		
	Total height	785mm
	Bollard diameter	220mm
	Bollard material	Precast concrete

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

info@benito.com   +34 **93 852 1000**

Barcelona

Madrid

Madrid

Girona

Barcelona

Guadalajara

made of polyurethane

Blanda

Bar

Bar **Solar**

Maia

HFLEX **Base Plate**

HFLEX

HFLEX **Removable with polymer base**

HFLEX **Removable with stainless steel base**

HFLEX **Solar**

HFLEX **LED**

SEMI-FLEXIBLE BOLLARDS

H75

Milos

Far

Odette

Eros

Trajana P Flex

Trajana Flex

Hospitalet **Durable**

info@benito.com   +34 **93 852 1000**

FIXED BOLLARDS

Universal

Hospitalet Anti-belier - SECURITY BOLLARD

Hospitalet

Dalia

Deca

Grey

Sol

Inox Ø90

Inox Ø220 - SECURITY BOLLARD

Hospitalet Base Plate

Protection

Vía Trajana

REMOVABLE BOLLARDS

Deca **with key**

Hospitalet **with key**

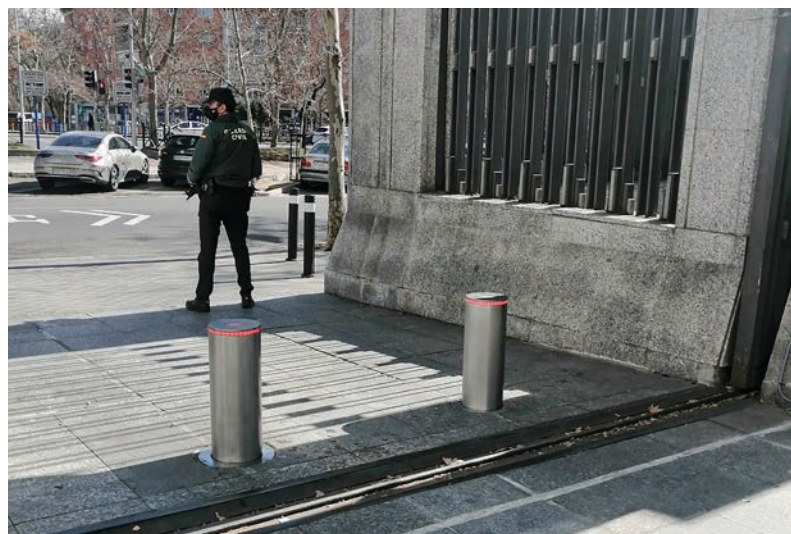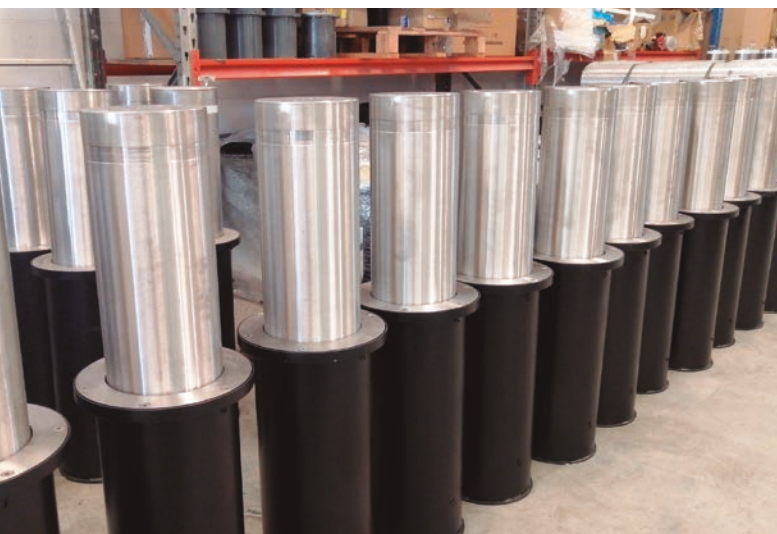Hospitalet

Dalia

Grey

Inox

Desmontable

Vía Trajana

Parking

4, 8 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!

✉ pilonas@benito.com

Once the bollard is installed...

YOU ARE NOT LEFT ON YOUR OWN
24h TECHNICAL SUPPORT
quick delivery of spare parts

✉ pilonas@benito.com

More information:

| Street Furniture | Street Lighting | Play Equipment | Covers and Grates |

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