

Access controlled... Future secured.



RB xx

RISING BOLLARDS

AS **AUTOMATIC**
SYSTEMS
VERBODEN GROUP

VEHICLE



Automatic Systems rising bollards combine integration and security. Their design make them suitable for the protection of sites in both urban and prestigious environments. In the raised position, these rising bollards close a road to vehicles, without restricting access to pedestrians. In the lowered position, they are hidden, allowing access to vehicles.



SECURITY

- High impact resistance
- Proven robustness and reliability
- Blocking of all access points, regardless of width

PERFORMANCE

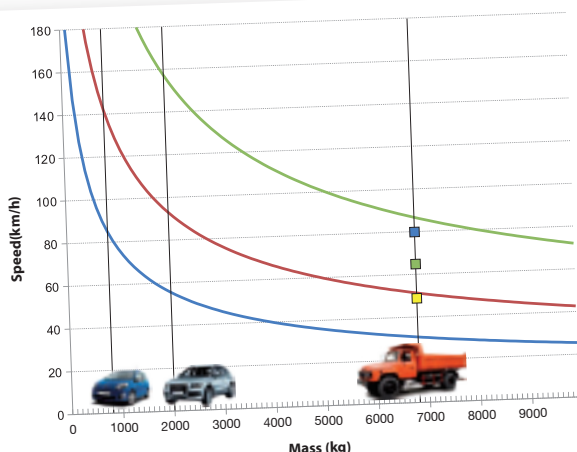
- Designed for intensive use (hydraulic operator)
- Resistant to the passage of heavy vehicles (in lowered position)
- Rapid and powerful rising, preventing fraud attempts
- The cylinder tolerates modest impacts (due to the hydraulic pump being located outside the cylinder)

CUSTOMISATION

- Several options and accessories available
- The functions and operating modes are easily adaptable
- No distance limitation between the bollards and the control unit

AESTHETICS

- Unassuming and elegant design
- Available in stainless steel or steel (in various paint colors)
- Inconspicuous appearance in lowered position



Breakout resistance for:
 — MB 50 / RB 60 / RB 80 — RB 70 S — RB 90 HS / RB 120 HS
Certification:
 ■ M50 / K12 ■ M40 / K8 ■ M30 / K4

Automatic Systems' family of bollards offer many impact resistance categories to suit your needs

- "Impact resistance without deformation" does not lock the bollard or damage the structural and action mechanisms. These bollards offer a resistance from 20 KJ (800 kg at 25 km/h) to 50 KJ (2000 kg at 25 km/h)
- "Breakout resistance" applies to the impact of a vehicle causing the bollard permanent damage to its active and structural mechanisms. These bollards offer a resistance from 250 KJ (800 kg at 90 km/h) to 2000 KJ (6800 kg at 87 km/h)

RISING BOLLARDS

Automatic Systems rising bollard products are all offered with a 275 mm diameter.

URBAN RISING BOLLARD SERIES

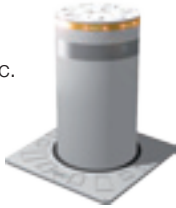
The RB 60/RB 80 automatic and MB 50 manual rising bollards are intended for controlling the access to a site, while protecting it from intrusion.

Ability to resist dynamic impacts by vehicles:

- Impact resistance without deformation: 20 KJ
- Breakout resistance: 250 KJ

MB 50

- Height: 500 mm
- Rising speed: 2.5 sec.



RB 60

- Height: 600 mm
- Rising speed: 4 sec.



RB 80

- Height: 800 mm
- Rising speed: 5.3 sec.



SECURITY RISING BOLLARD SERIES

The RB 70 S automatic rising bollards are very robust. They stop unauthorised passage and protect sensitive sites.

Ability to resist dynamic impacts by vehicles:

- Impact resistance without deformation: 30 KJ
- Breakout resistance: 700 KJ (M30/K4)

RB 70 S

- Height: 700 mm
- Rising speed: 7 sec.



HIGH SECURITY RISING BOLLARD SERIES

The RB 90 HS and 120 HS automatic rising bollards offer the highest level of security. They have been specially designed to protect sites that are exposed to risks of terrorism.

Ability to resist dynamic impacts by vehicles:

- Impact resistance without deformation: 50 KJ
- Breakout resistance: 2000 KJ (M50/K12)

RB 90 HS

- Height: 900 mm
- Rising speed: 3.6 sec.



RB 120 HS

- Height: 1200 mm
- Rising speed: 4.8 sec.
- M50 certified



BENEFITS

- Site protection
- Easy integration into your site
- Great return on investment
- Low operating costs

MARKETS

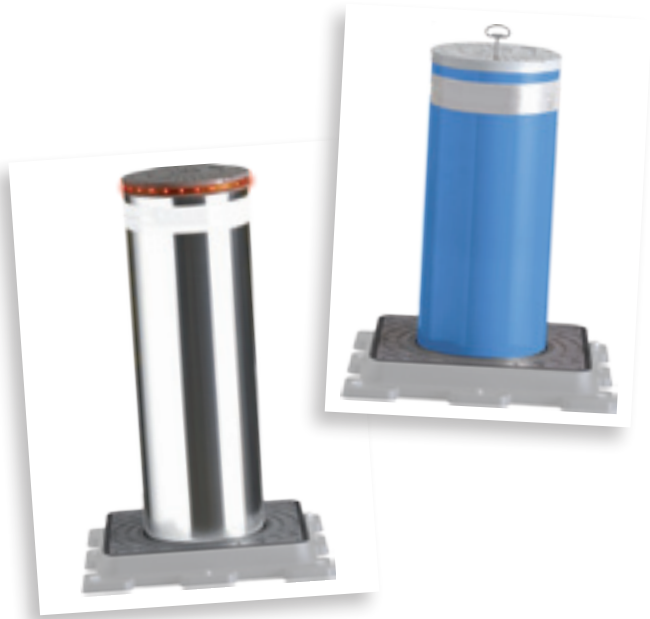
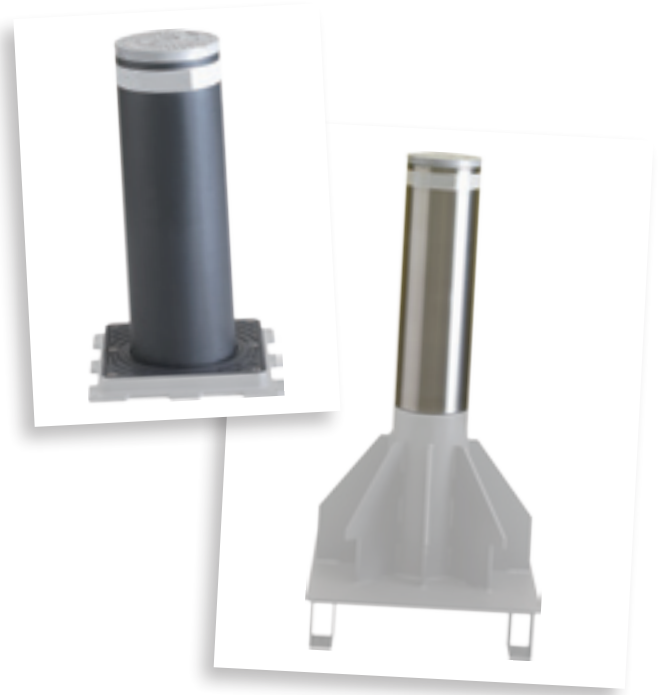
- Perimeter access
 - Residential
 - Service industry
- Sensitive sites
 - Embassies, military bases, ports, industry...
- Secured parking areas

OPTIONS & ACCESSORIES

Choose from our selection of options and accessories to adjust the level of control and security as well as enable a fluid integration of the bollard in your environment.

SECURITY & SAFETY

- Emergency fast opening (1 sec.)
- Unit lowers in case of power failure
- Fixed bollards with appearance, dimensions and breakout resistance similar to the associated automatic bollard (275 mm diameter)



AESTHETICS & CUSTOMISATION

- Painted steel or brushed stainless steel finish
- Flashing light and buzzer signalisation
- Up/Down position indicator
- Heater, immersion pump...

CONTROL & COMMAND

- Column for the integration of accessories: traffic lights, intercom...
- Retractable structure for automatic control unit
- Radio receiver/transmitter, inductive loops, presence detectors, push button boxes...



* Option availability may vary, please consult your representative