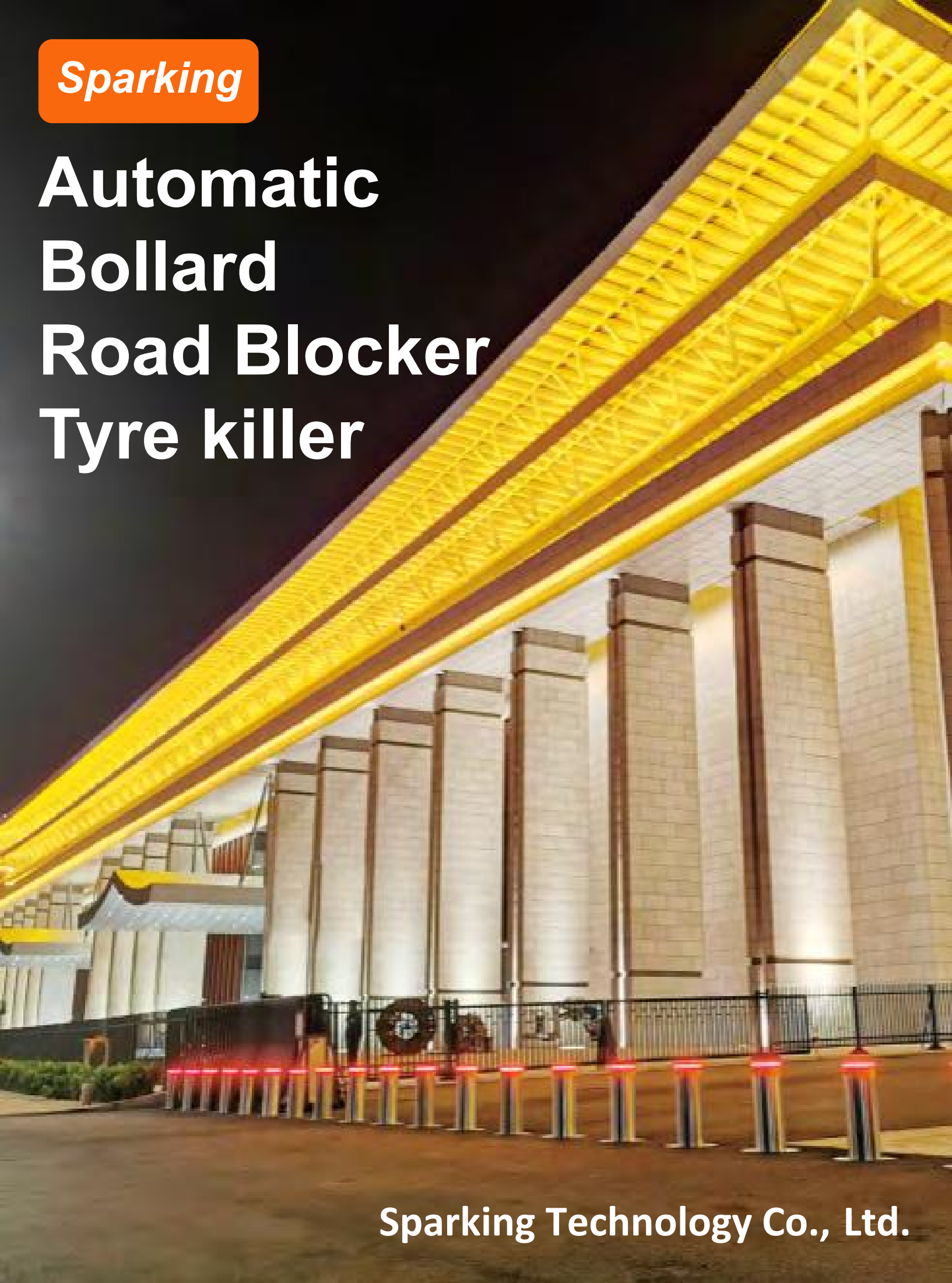


The background image shows a large, modern building with a prominent yellow-lit roof structure. In the foreground, a row of bollards with red lights at the top is visible, suggesting a security or access control system. The overall scene is illuminated with warm, yellow light, creating a high-tech and secure atmosphere.

Sparking

Automatic Bollard Road Blocker Tyre killer

Sparking Technology Co., Ltd.

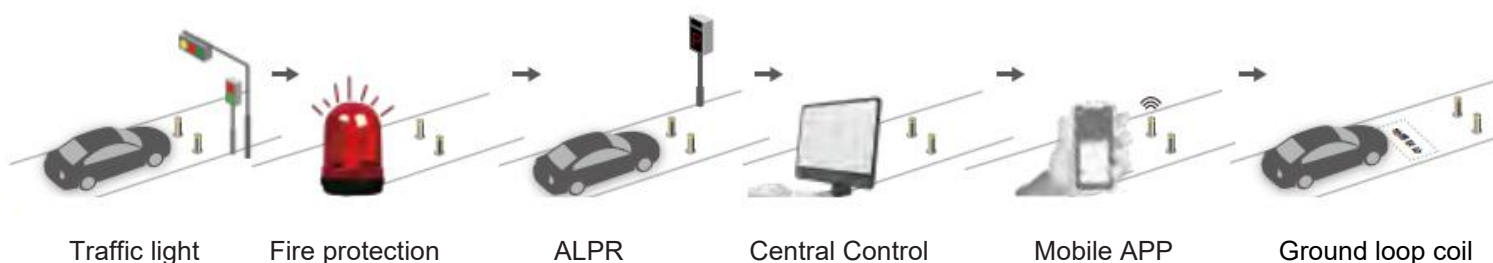
01 Product Advantage ❖

The automatic bollard successfully passed the A-class crash test of the China's Ministry of Public Security

Both the pneumatic lifting bollard and hydraulic lifting bollard have successfully passed the inspection of the China's Ministry of Public Security; After the 6.8-ton truck crashed at a speed of 80km/h in real vehicle, the relevant staff of the Ministry of Public Security tested the distance of the truck, the interception effect and the bollards after the truck hit. The damage to the descending column was fully tested. In addition to the normal wear of the column body surface and reflective sticker after impact, the column body has no tilt, no depression, no damage to the overall structure, and can be lifted normally.



Professional R & D design PLC control programming, stable performance, strong anti-interference, can be linked with mobile phone APP and computer remote control, firefighting, public security barrier and license plate recognition system docking lifting function.



The lifting column body is uniformly made of 304# stainless steel seamless pipe, which is anti-corrosion above grade 7, eliminating rust and improving product service life.



304# stainless steel seamless pipe

Selected material is strong and firm
Thickness from 6mm to 10mm

IP68 Rating

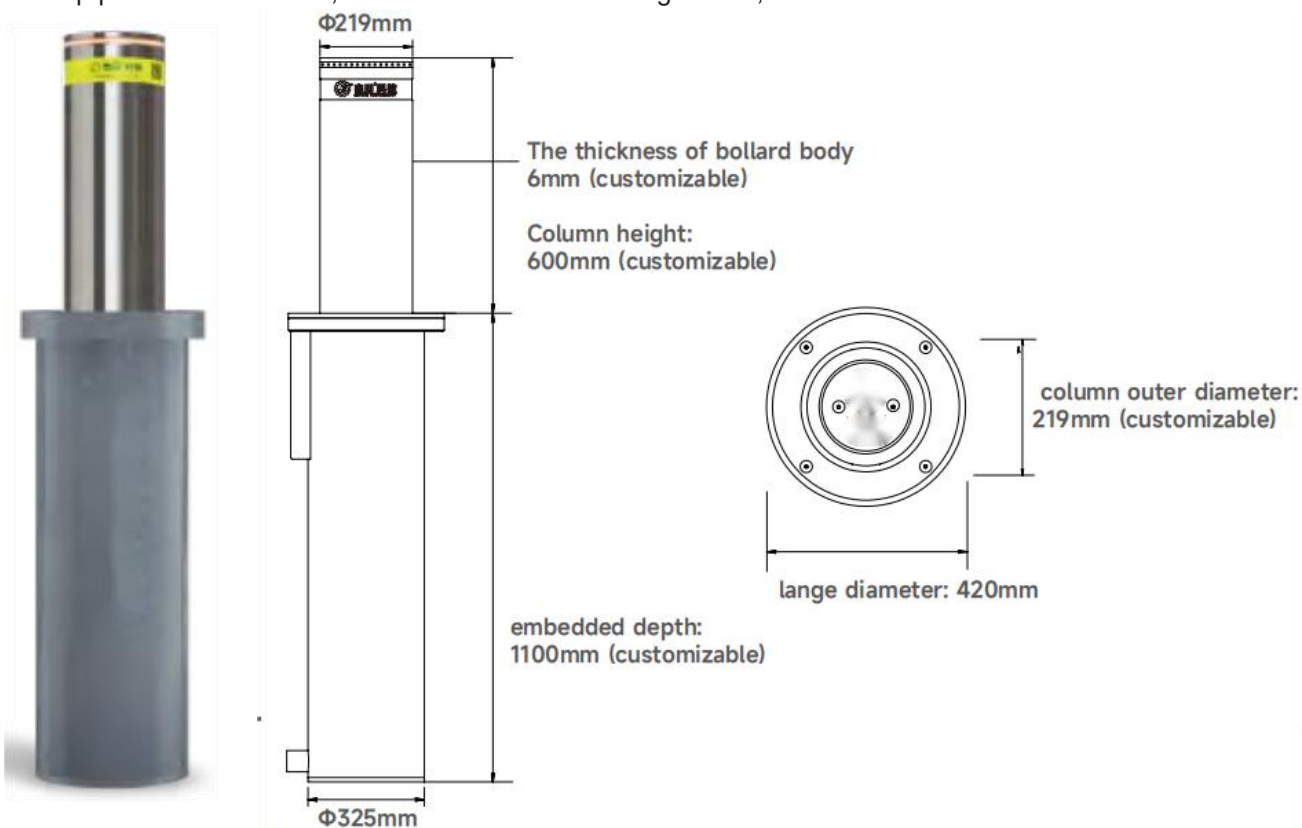
Miniature water-immersion motor design, dustproof and waterproof grade standard of the highest level.



02 Automatic Hydraulic Bollards

The internal structure of the automatic hydraulic lifting bollard is made of stainless steel, and the barrel is pre-embedded, it is a hot-dip galvanized seamless pipe, the surface electrostatic powder spraying has strong corrosion resistance, and the lifting device is electromechanical, liquid integrated design, driven by a hydraulic system with PLC to control the rise and fall of the moving cylinder, fast speed and stable operation. The intelligent control system can implement a variety of optional functions as well, it can linkage with computer to realize remote central control, mobile phone APP control, etc.

Optional components include: ultra-bright LED warning lights, equipment status display, vehicle detection device, backup power relief module, automatic detection heating device, etc.



Automatic Hydraulic Bollards

Model	219A	219B	219C	273A	273B	168A
Cylinder height	600mm	600mm	600mm	600mm	600mm	600mm
Cylinder diameter	219mm	219mm	219mm	273mm	273mm	168mm
Cylinder thickness	6.0mm	8.0mm	6.0mm	10.0mm	10.0mm	6.0mm
Cylinder material	304# stainless steel seamless steel pipe					
Diameter of embedded barrel:	Φ273mm	Φ325mm	Φ325mm	Φ325mm	Φ377mm	Φ273mm
Height of embedded barrel:	1100mm	1100mm	800mm	1100mm	800mm	1100mm
Thickness of embedded barrel:	3.0mm	4.0mm	4.0mm	4.0mm	4.0mm	3.0mm
Lifting time:	2~4 sec					
Power:	320W					
Protection rating:	IP68					
Working temperature:	-30℃~55℃					
Drive voltage:	AC380V, AC220V, DC24V					
Warning signs:	Ultra-bright LED light and 3M reflective film					
Control mode:	PLC control system, wired desktop control, wireless remote control					
Emergency function:	Equipped with UPS emergency power supply and one-key descent					

Note: Customized dimension is available and welcome!
Pls contact sales for details.

Control System



The internal layout is standardized, reasonable and beautiful;

Electrical components are purchased from first-line high-quality brands.

Technical Parameters

Input voltage	Single-phase 220VAC/3-phase 380VAC
Output voltage	Single-phase 220VAC/3-phase 380VAC
Installation method	Floor-to-ceiling/ wall-mounted indoor/outdoor
Protection Rating	IP54
Material	Galvanized sheet
Control mode	Remote control/mobile APP
Controller	PLC
Mode of transmission	4G/5G/Wifi/LAN/WAN

Backup battery	Accumulator
Public security linkage	Support
Power outage emergency drop	Support
Remote control	Support
Buzzer	Support
Traffic light	Support
Ground sensor linkage	Support
License plate recognition	Support

Remote control



Control mode	315 MHz encryption wireless remote control
Control distance	≥ 50m
Function	Rise, down, and stop

Using frequency modulation, anti-interference, encryptor, which ensure the security of the transmission signal.

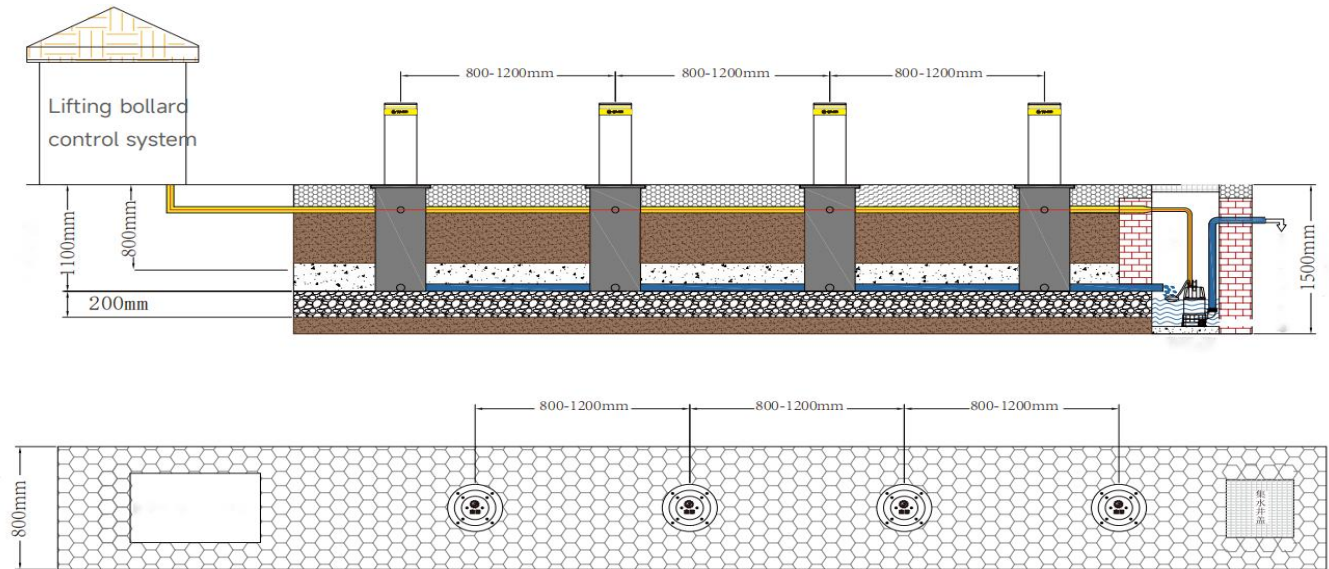
Wired Push button



Control mode	Wire control
Control distance	≥ 200m
Function	Rise, down, and stop

Installation Diagram of Automatic Hydraulic Bollard

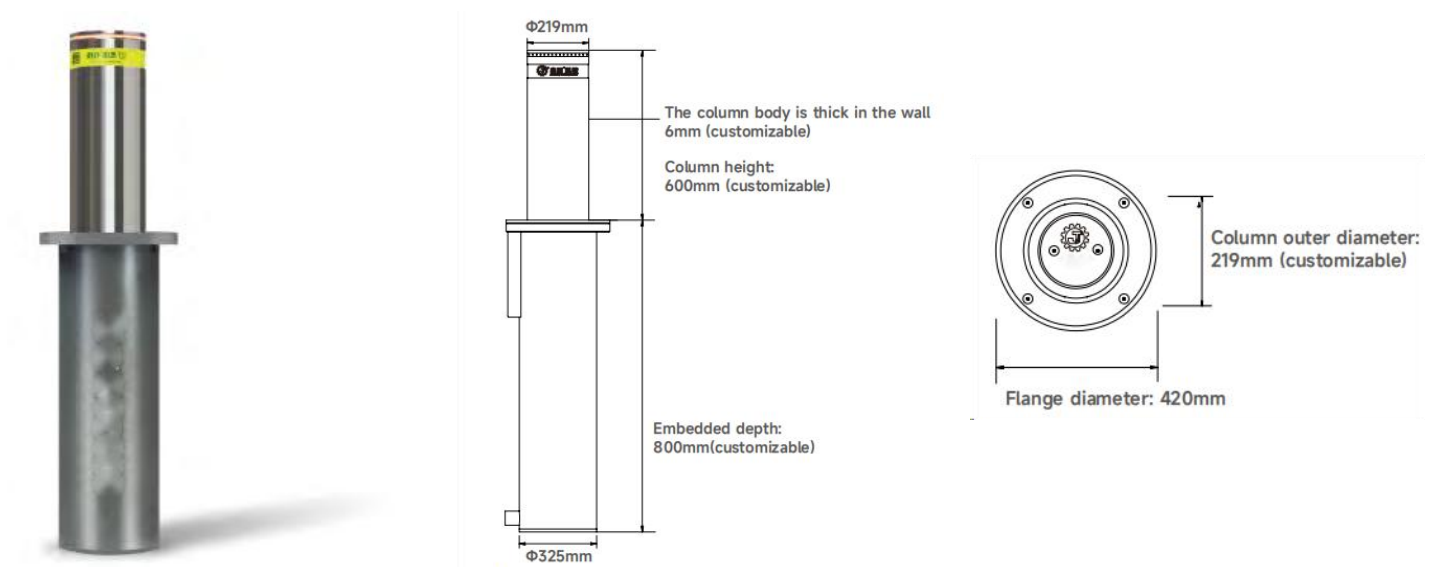
Installation requirements: Recommended distance between the center of the lifting column and the center of the lifting column is 800-1200mm (customized)
Embedded depth according to the product from 1100-800mm(customized)



03 Semi-Automatic Bollard

Semi-automatic lifting bollard, the rise is driven by the built-in gas spring, and the descent is manually assisted, which is widely used in the entrances and exits of vehicle passages with infrequent traffic (such as: fire escapes, parks, pedestrian streets, etc.). It is composed of cylinder, flange, lifting guide system, gas spring, hexagon lock structure.

At the same time, it is more economical, stable, safe, practical and reliable to use with the same shape of automatic lifting column, and can save cost.



Semi-Automatic Bollard

Technical Parameters

Cylinder height:	600mm(customized available)
Cylinder diameter:	219mm(customized available)
Cylinder thickness:	6mm(customized available)
Cylinder material:	304# stainless steel seamless steel pipe
Compressive resistance:	≥80T
Anti-corrosion treatment:	hot-dip galvanized + zinc-infiltrated baking paint treatment
Embedded barrel diameter:	Φ325mm
Embedded barrel height:	800mm
Embedded thickness:	3.0mm
Protection rating:	IP68
Working temperature:	-30°C~55°C
Drive system:	Gas spring drive
Warning signs:	Ultra-bright LED light and 3M reflective film



Ultra-bright LED warning light



3M diamond grade reflective warning film



Cylinder body 304# stainless steel seamless steel pipe



10mm thick flange cover



Pre-embedded convenient drainage system

04 Removable and Fixed Bollard

The removable bollard adopts detachable mobile structure design, which is convenient to operate and simple to manage, and is suitable for inlet and fire escape openings that are not commonly used. At the same time, it can be used with automatic bollard, semi-automatic bollard, fixed column, etc.

Cylinder height:	600mm(customized available)
Cylinder diameter:	219mm(customized available)
Cylinder thickness:	6mm(customized available)
Cylinder material:	304# stainless steel seamless steel pipe
Working voltage:	12v
Control mode:	Removable
Working temperature:	-30°C~55°C
Warning signs:	Ultra-bright LED light and 3M reflective film



Fixed bollard are mainly installed in enclosed areas, which are most suitable for permanent vehicle control without obstructing pedestrians, providing specific facilities and landscape protection, and can ensure vision while improving the arch openness of the place. At the same time, it can be used with automatic bollard, semi-automatic bollard, removable bollard, etc.

Cylinder height:	600mm(customized available)
Cylinder diameter:	219mm(customized available)
Cylinder thickness:	8mm(customized available)
Cylinder material:	304# stainless steel seamless steel pipe
Working voltage:	12v
Impact resistance:	≥15,000J
Working temperature:	-30°C~55°C
Warning signs:	Ultra-bright LED light and 3M reflective film



05

Honorary qualification



CE



ISO9001:2015证书



Testing report



Testing report



Utility model patent



Growing enterprise



National high-tech enterprise



Technology leading company



Premium brand

06

Typical Case

