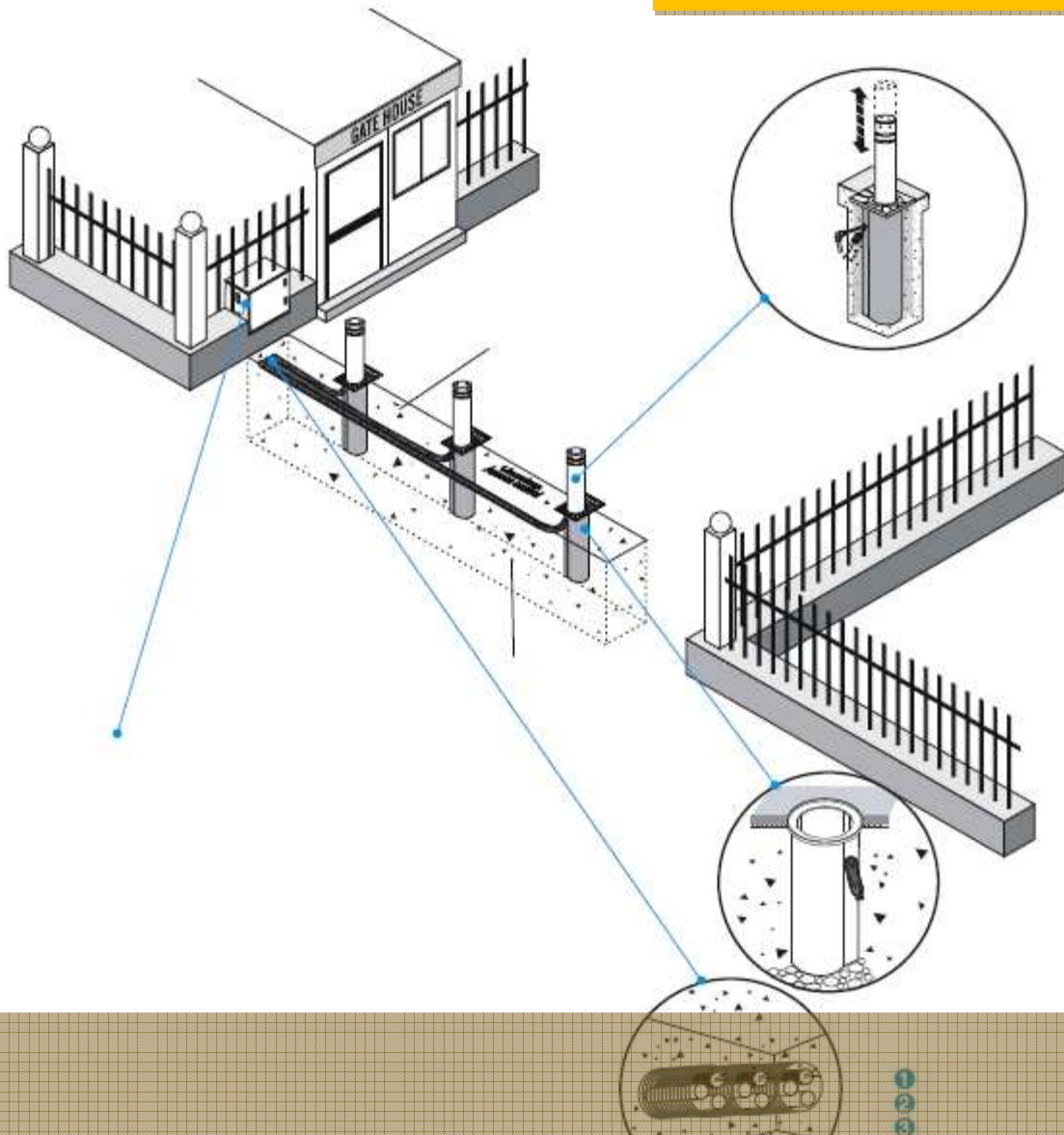




**Scorpio Automation™**

[www.scorpioautomation.in](http://www.scorpioautomation.in)

## Automatic Rising Bollards



### Applications:

- Bus Gates
- Congestion Zones
- Residential Areas
- Car Parks
- Private Security
- Pedestrian Zones
- Government Buildings
- Shopping Centers
- Commercial/Industrial Sites
- Nuclear Installations

## Automatic Bollards:

Electric-automatic bollard is normally used for public carport management and private yard access control. It can meet the demands of high frequency access control. Delos electric-automatic bollard adopts the low voltage direct current machine with electronic brake as the power unit. It is safe and reliable with low power consumption, fast lifting speed, low noise, stable running as well as other advantages. Control the lifting of electric-automatic bollard by connecting with third part access control system (smart card, RFID, remote control and program control). You can choose ground sensor, buzzer, infrared anti-collision and other kinds of auxiliary devices according to system demand. The rise/fall time is 3-5 seconds, satisfying the access control demands of high frequency entrance/exit.

## Features:

- No strong current, safe and reliable system
- Electronical control, automatically rise/fall
- High system independence
- Unrestricted application
- Economical and practical

# Automatic Hydraulic Bollard

Model: 275/K4-700A  
Drive : Hydraulic  
Diameter : 275mm  
Block Height : 700mm  
Weight: 387KG  
Material: Steel FE510  
Thickness: 10mm  
Surface Finish: Polyester powder painting-color grey anthracite  
Operation Control Button/Remote Control/Card Reader and other System.  
Rise Speed: 10cm/s  
Fall Speed : 20cm/s  
Frequency: High working frequency; service life>2,000,000 times &2,000 daily operations  
Temperature: -15°C~70°C Heating system is available if the temperature is too low (optional)  
Impact Resistance : 700,000J

## 1. SMBH-275/K-700A Automatic Rising Bollards

275 K4 700 Anti Terrorist Rising Bollards are crash tested bollards designed to K4 standard, and are able of stopping a 6.8 tonne truck travelling at 30mph.

Suitable for many high security projects where the need for a higher crash rating is not required, the bollards come in 275mm diameter and 700mm height.



Diameter:	275mm
Height:	700mm
Finish:	RAL painted or stainless steel
Flashing LED (optional)	LEDs around bollard head,

## 2. SMBH-275/K-900A Automatic Rising Bollards

275 K12 900 Anti Terrorist Rising Bollards are crash tested to K4 standard, meaning they are able to withstand vehicle encroachment of a 6.8 ton truck travelling at 30mph. This make the bollards suitable for a wide range of high security projects where anti terrorist bollards may be required, such as military bases and embassies



Diameter:	275mm
Height:	900mm
Finish:	RAL painted or stainless steel
Flashing LED (optional)	LEDs around bollard head, \

## TECHNICAL DATASHEET OF HYDRAULIC DBO-275/K-700 – FE 6 mm

Drive	Hydraulic
Driven cylinder	Steel FE 510 – thickness 10 mm
Treatment undergone by driven cylinder	Polyester powder painting- color grey anthracite <sup>*1</sup>
Driven cylinder diameter	275 mm.
Driven cylinder run	700mm
Cylinder top(head)	Anticorodal cemented aluminium
Treatment undergone by cylinder top	Polyester powder painting-color light grey ( RAL7006 )
Drive speed	Rise speed 10 cm/sec Fall Speed 20 cm/sec
Hydraulic pump	230V Alimentation +/-10% 50Hz
Protection class	IP 67
Capacitor for pump	18µF
Electrical input	220W 230V
<b>Work frequency – resistance class</b>	Intensive use >2.000.000 life cycle 2.000 daily operations
Refractive adhesive band	Standard height 55 mm
Work temperature	- 15°C + 70°C <sup>*2</sup>
Overall weight with pit	330kg
Manual lowering	YES <sup>*3</sup>
Resistance to impact (without permanent damage)	30,000 Joules
Resistance to impact (with permanent damage)	700,000 Joules
Dimensions of pit to be walled	640x640x1160H
<b>Standard cable length</b>	10 m <sup>*4</sup>

\*1 optional: personalized spray painting with RAL color

\*2 optional: heating devices for temperature up to -25°C

\*3 optional: automatic lowering in case of black-out

\*4 optional: on request cable length 50m – 30 m if \*3

# Automatic Pneumatic Bollard

Drive : Hydraulic

Weight: 120KG

Material: Steel FE 37

Thickness: 6mm

Surface Finish: Polyester powder painting-color grey anthracite

Operation Control Button/Remote Control/Card Reader and other System.

Rise Speed: 10cm/s

Fall Speed : 20cm/s

Frequency: High working frequency; service life>2,000,000 times &2,000 daily operations

Temperature: -15°C~70°C Heating system is available if the

Temperature is too low (optional)

Impact Resistance : 250,000J

## 1. SMBH- 220P4-600 Automatic Rising Bollards

Automated Bollards flagship rising bollard combines exceptional strength with elegance. The bollards pleasing aesthetics enhance the look of the area; a non-stop duty cycle ensures lasting performance, whilst the added safety pressure switch offers additional protection.

Standard FE37 RAL painted matt steel and polished stainless steel optional finishes allow the bollard to blend seamlessly with the surroundings, whilst still offering the protection needed.



Diameter: 275mm

Height: ≤600mm

Finish: RAL painted or stainless steel

Flashing LED (optional) LEDs around bollard head,

## 2. SMBH-275/P4-900 Automatic Rising Bollards

The features of the 275/P4 900 make it suitable for applications where there is an increased risk of impact from larger vehicles or vehicle travelling at higher speeds



Diameter:	275mm
Height:	900mm
Finish:	RAL painted or stainless steel
Flashing LED (optional)	LEDs around bollard head.

### TECHNICAL DATASHEET OF HYDRAULIC DBO-275/K-700 – FE 6 mm

Drive	Hydraulic
Driven cylinder	Steel FE 510 – thickness 10 mm
Treatment undergone by driven cylinder	Polyester powder painting- color grey anthracite <sup>*1</sup>
Driven cylinder diameter	275 mm.
Driven cylinder run	700mm
Cylinder top(head)	Anticorodal cemented aluminium
Treatment undergone by cylinder top	Polyester powder painting-colour light grey ( RAL7006 )
Drive speed	Rise speed 10 cm/sec Fall Speed 20 cm/sec
Hydraulic pump	230V Alimentation +/-10% 50Hz
Protection class	IP 67
Capacitor for pump	18µF
Electrical input	220W 230V
<b>Work frequency – resistance class</b>	Intensive use >2.000.000 life cycle 2.000 daily operations
Refractive adhesive band	Standard height 55 mm

Work temperature	- 15°C + 70°C * <sup>2</sup>
Overall weight with pit	250kg
Manual lowering	YES * <sup>3</sup>
Resistance to impact (without permanent damage)	8,000 Joules
Resistance to impact (with permanent damage)	250,000 Joules
Dimensions of pit to be walled	640x640x1160H
<b>Standard cable length</b>	10 m * <sup>4</sup>

\*1 optional: personalized spray painting with RAL color

\*2 optional: heating devices for temperature up to -25°C

\*3 optional: automatic lowering in case of black-out

\*4 optional: on request cable length 50mt – 30 mt if \*3