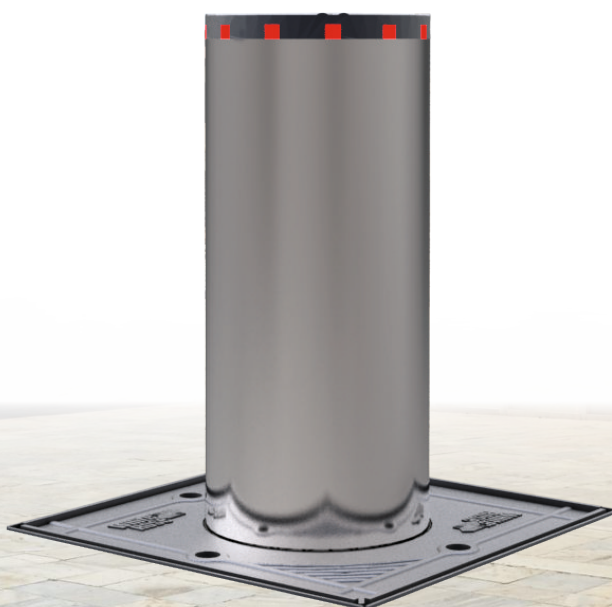


RISING BOLLARD SYSTEMS

Useful and Safe





GENT STREET W1

Superdry

FOR COMFORT AND SAFETY OF ANYTHING YOU CARE IN YOUR LIFE



We always ask ourselves this question: How can we provide both comfort and safety at the same time? Yes, in fact, comfort and safety are two conflicting words... But we ourselves create miracles with these two words... just with some knowledge, intelligence and ability... which are our key words en route to serve humanity. With these key words, we fit comfort and safety into a frame and here emerges White Rose. We, as White Rose, questioning continuously, have rendered our products suitable for people, not the other way around.

What are their needs, how can we assist them in their daily life? First, we discussed all these questions with our professional team and then we could answer them observing the needs of our people.

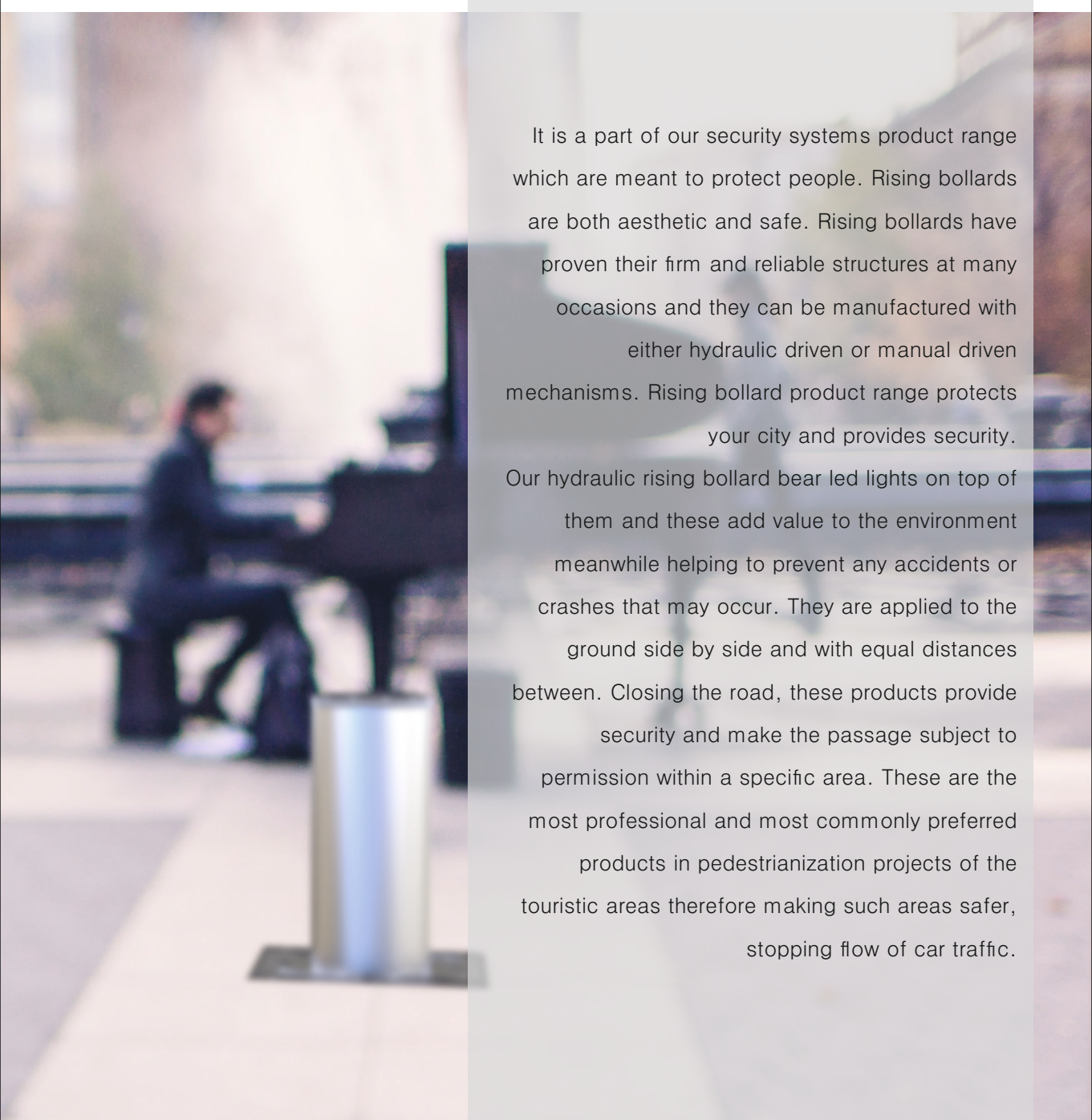
Thus, under three titles, we made use of our cutting-edge technology for humans comfort and safety. With our Industrial Automation, Urban Automation and Home Automation products we obtained answers of our questions and so we became an unrivaled company in Turkey, ranking among leading companies in the World. Thanks for deciding to get familiar with advanced technology we offer.



SAFE AND INTUITIVE ENOUGH
TO TAKE ITS PLACE IN YOUR MEMORIES



WHAT ARE RISING BOLLARD SYSTEMS?



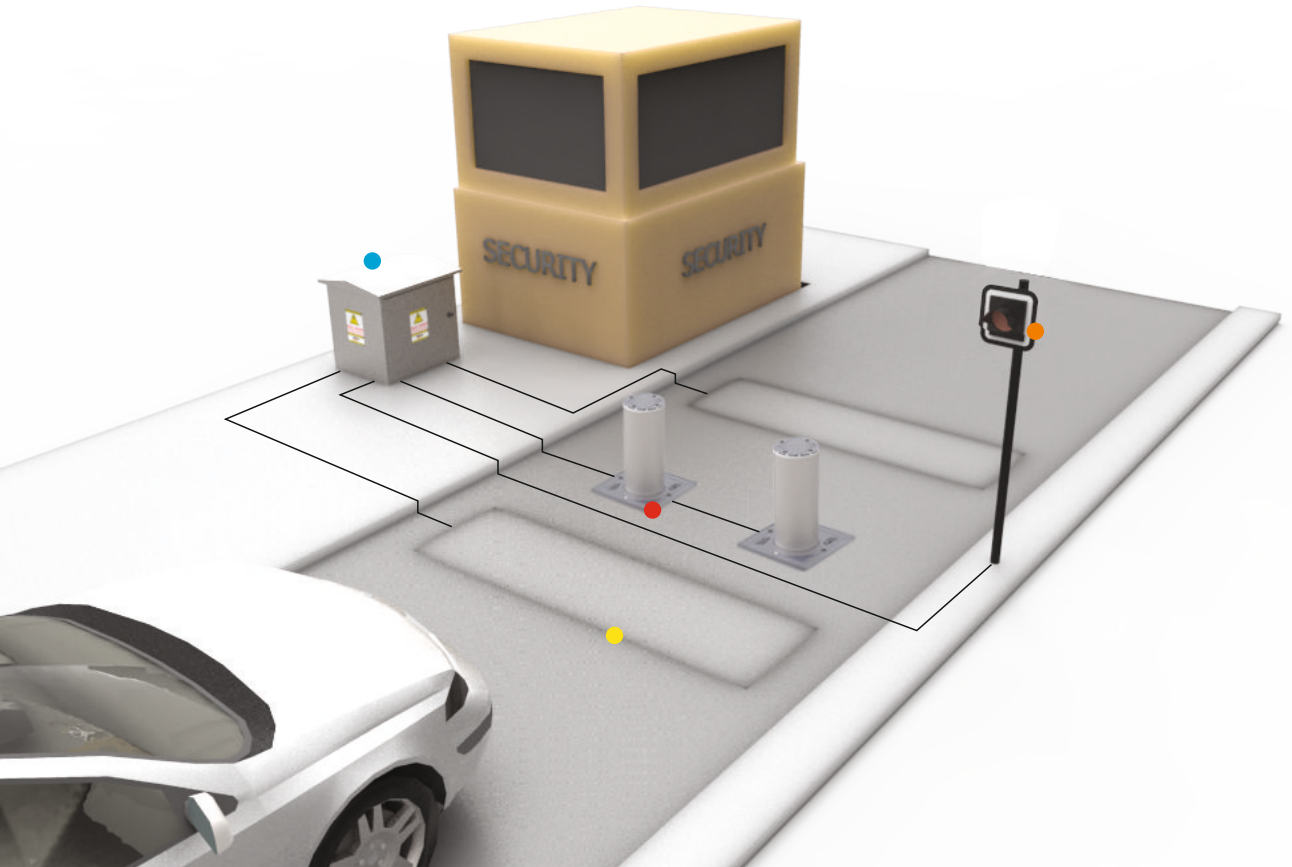
It is a part of our security systems product range which are meant to protect people. Rising bollards are both aesthetic and safe. Rising bollards have proven their firm and reliable structures at many occasions and they can be manufactured with either hydraulic driven or manual driven mechanisms. Rising bollard product range protects your city and provides security. Our hydraulic rising bollard bear led lights on top of them and these add value to the environment meanwhile helping to prevent any accidents or crashes that may occur. They are applied to the ground side by side and with equal distances between. Closing the road, these products provide security and make the passage subject to permission within a specific area. These are the most professional and most commonly preferred products in pedestrianization projects of the touristic areas therefore making such areas safer, stopping flow of car traffic.

WE KNOW HOW VALUABLE TIME IS

Time plays a significant role in our lives. We value your time therefore use our time efficiently. Our rising bollards have been developed in a way that will save you time. Hydraulic rising bollards rise within 3–6 seconds and do not make you wait. It is a quick security solution because it is quick in its descent as well. We have developed our rising bollard systems as time went by throughout the years, and in the meanwhile they are updated as per what is offered by the new technology.



YOU WILL APPRECIATE THE TECHNOLOGY UTILIZATION IN OUR PRODUCTS



● Rising Bollard

● Hydraulic Unit

● Traffic Lamp

● Loop Detector

THIS TECHNOLOGY GIVES CONFIDENCE

As you get to know our variety of rising bollard systems products; you will find that any solution you may need, is already included. So, please visit our website.

www.whiterose.com.tr



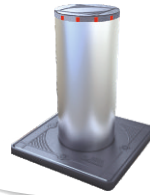
WHAT WE OFFER IS; TOP GRADE SECURITY

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TANK COMPACT SERIES
RISING BOLLARD

page 11



TANK PL SERIES
RISING BOLLARD

page 14



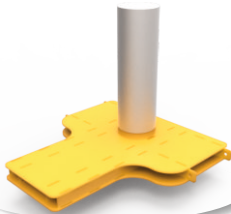
TANK PS SERIES
RISING BOLLARD

page 16



PANZER SERIES
RISING BOLLARD

page 22



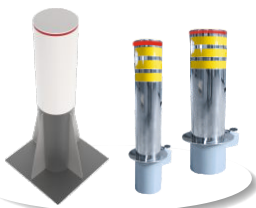
SAFE SERIES
FIXED BOLLARD

page 24

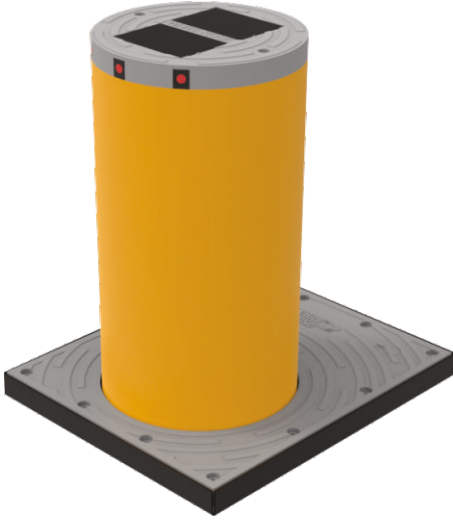


SBL - 1 FIXED
BOLLARD

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FIXED AND MANUEL
BOLLARDS

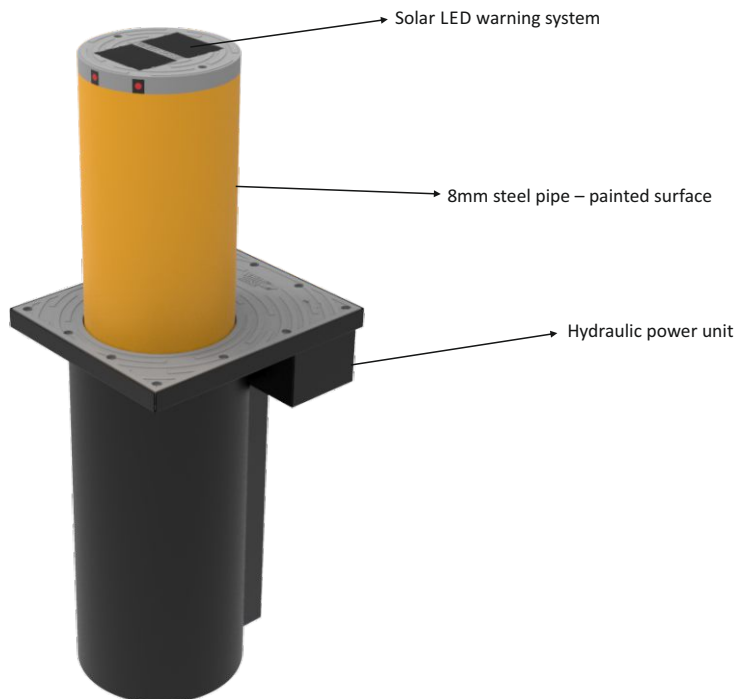


TANK COMPACT SERIES RISING BOLLARD

integrated design

Tank compact series which is featuring firm structure and modern design; also bears a high lumen led system on its top, which is highly resistant to external factors. As its control system is coupled within itself, unit's cabinet is not located outside, hence not causing visual pollution comparing the other bollards systems.





Type	TANK COMPACT SERİSİ
Operation	Hydraulic
Motor power	0,25 Kw
Min Pressure	20 Bar
Max Pressure	40 Bar
Power Supply	220V / 50-60 Hz
Rising Speed	10 cm / sn
Descent Speed	20 cm / sn
Cylinder Dia	273 mm
Cylinder Height	500 mm
Cylinder Thickness	8 mm
Protection Class	IP 67
Impact Resistance	30.000 J
Break Resistance	160.000 J
Operation Temperature	-20 +70
Hydraulic Unit	Internal

THIS TECHNOLOGY GIVES CONFIDENCE

As you get to know our variety of rising bollards systems products; you will find that any solution you may need, is already included. So, please visit our website.

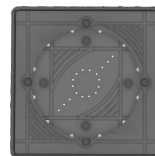
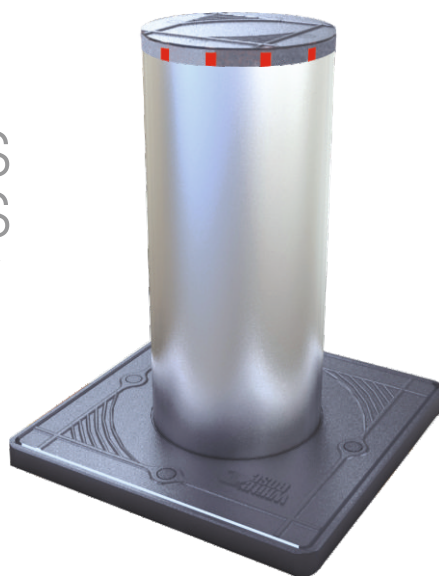
www.whiterose.com.tr



TANK PL SERIES RISING BOLLARDS

continuously

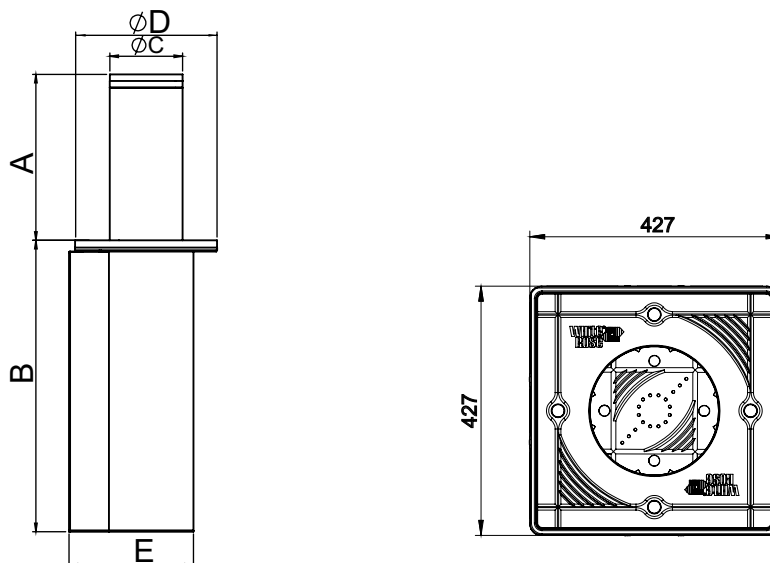
Tank PL series rising bollards have been designed to be able to rise between 4–6 seconds therefore allowing efficient traffic flow and during a possible electricity cut-off it can be descended manually. As an option, it is also available with a mechanism that rises in just 1 second.



top view



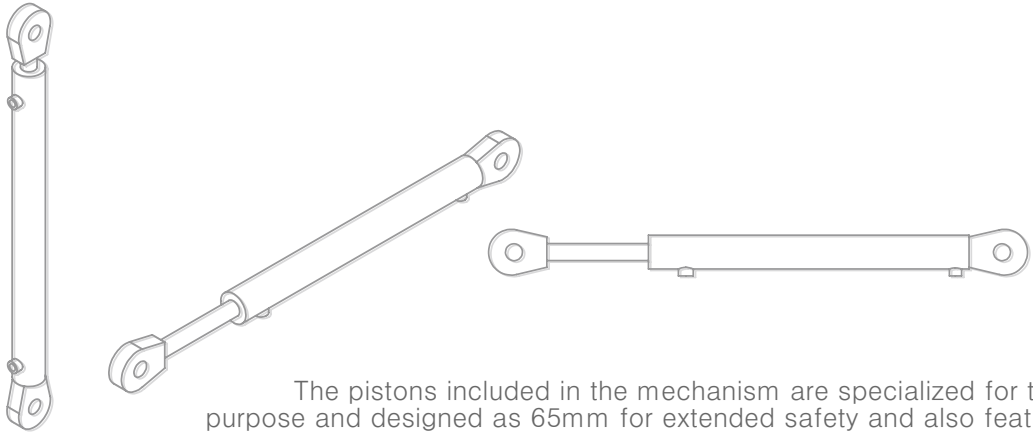
product information



Moving part	A / mm	B / mm	C / mm	D / mm	E / mm
50 Openable	500	850	220	416	375
60 Openable	600	950			
70 Openable	700	1050			
80 Openable	800	1150			
90 Openable	900	1250			
100 Openable	1000	1350			

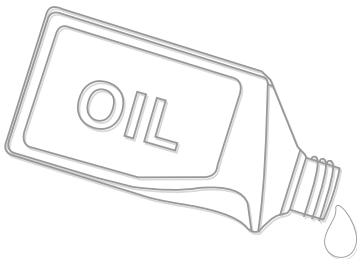
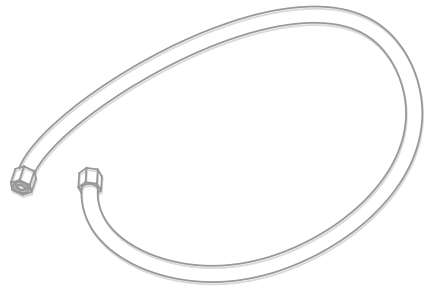
Type	TANK PL SERIES					
Dimensions	500x220x8mm					
Model	TPL-1	TPL-2	TPL-3	TPL-4	TPL-5	TPL-6
Rising bollard number of	Unary	Binary	Triad	Quad	Quinary	Senary
Moving part	On 6mm ST37 steel pipe, 2mm 316 quality, stainless					
Working system	Hydraulic					
Power source	380 V 3 Phase 50/60 Hz					
Control unit	T-mag control unit or (optional PLC)					
Current draw	2,1 A	3,5 A	6,6 A		8,2 A	11,2 A
Motor power	0,75 KW	1,5 KW	3 KW		4 KW	5,5 KW
Turn on-turn off duration	4-6 seconds					
Continuously of operation	100%					
Lifting power per rising bollard	750 Kg					
Limit switch type	Adjustable motor operational					
Minimum operational pressure	20 Bar					
Maximum operational pressure	75 Bar					
Manuel opening	Through ball valve					
Manuel shut down	Optional hand pump					
Hydraulic oil type	Hydraulic oil No.32 or 46					
Ral colour for bollard	Polisage stainless steel					
Notification light	Specially designed led system in top-hat					
Hydraulic pipe	3/8 r2 330 bar					
Operational temperature	-20°C min +70°C max					
Bollard ground weight	110 Kg	110 Kg x 2	110 Kg x 3	110 Kg x 4	110 Kg x 5	110 Kg x 6

WE HAVE BROUGHT TOGETHER THE PARTS WHICH ARE IMPORTANT FOR US AND SAFE FOR YOU

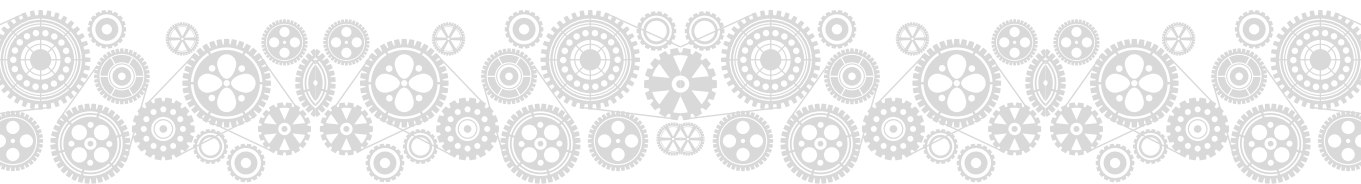


The pistons included in the mechanism are specialized for this purpose and designed as 65mm for extended safety and also feature special valve system against hose breakages. Road Blocker's mentioned important part bears loads up to 2750kg.

Systems veins: 3/8 R2 330 Bar hydraulic hose is unbreakable and leak proof. It can work for long years with your road blocker, with continuous high performance.



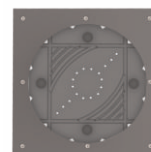
Another hero behind the power that we present for you, is the hydraulic oil no 32 or 46. Having passed the heavy duty performance tests, the hydraulic oil is in place of the system's blood.



TANK PS SERIES RISING BOLLARD

professional security

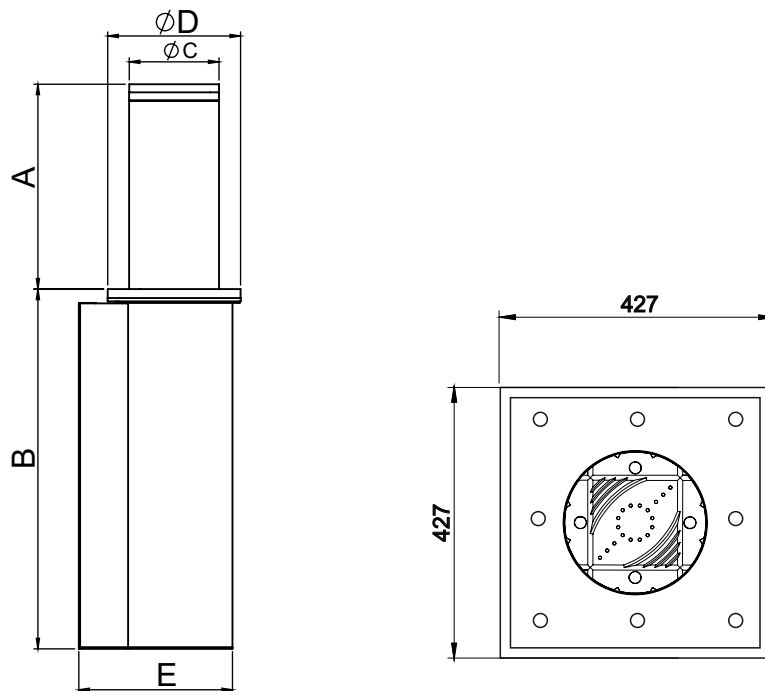
Wherever high security is needed, it is used due to its stainless steel build and hydraulic system technology. Tank PS Series Rising Bollard is very strong and durable and suitable for heavy duty use as well as being commonly used against assassination & attack attempts by use of vehicles. The item offers perfect security performance.



top view



product information



Moving part	A / mm	B / mm	C / mm	D / mm	E / mm
70 Openable	700	1150	220	350	375
80 Openable	800	1250			
90 Openable	900	1350			
100 Openable	1000	1450			
110 Openable	1100	1550			
120 Openable	1200	1650			

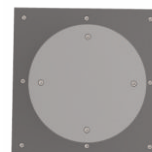
Type	TANK PS SERIES					
Dimensions	700x220x22mm					
Model	TPS-1	TPS-2	TPS-3	TPS-4	TPS-5	TPS-6
Rising bollard number of	Unary	Binary	Triad	Quad	Quinary	Senary
Moving part	On 20mm ST37 steel pipe, 2mm 316 quality, stainless					
Working system	Hydraulic					
Power source	380 V 3 Phase 50/60 Hz					
Control unit	12 input - 8 output PLC					
Current draw	2,2 A	4,4 A	6 A	8 A	11 A	
Motor power	1,1 KW	2,2 KW	3 KW	4 KW	5,5 KW	
Turn on-turn off duration	4-6 seconds					
Continuously of operation	100%					
Lifting power per rising bollard	628 Kg					
Limit switch type	Adjustable motor operational duration					
Minimum operational pressure	30 Bar					
Maximum operational pressure	50 Bar					
Manuel opening	Through ball valve					
Manuel shut down	Optional hand pump					
Hydraulic oil type	Hydraulic oil No.32 or 46					
Ral colour for bollard	Polisage stainless steel					
Notification light	Specially designed led system in top-hat					
Hydraulic pipe	3/8 R2 330 Bar					
Operational temperature	-20°C min +70°C max					
Bollard ground weight	246 Kg	246 Kg x 2	246 Kg x 3	246 Kg x 4	246 Kg x 5	246 Kg x 6



PANZER SERIES STAINLESS STEEL RISING BOLLARD WITH LEDS

strength in security

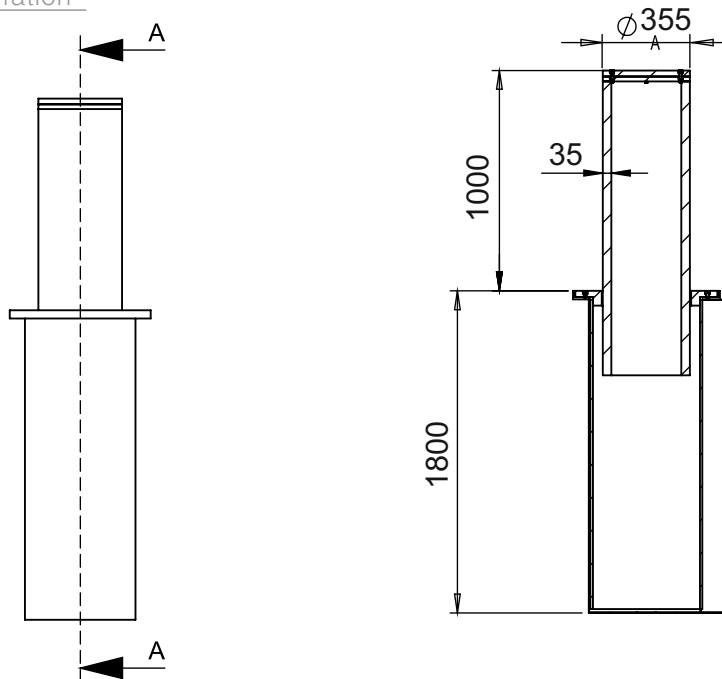
Panzer Series Stainless Steel Rising Bollards with Leds bear firm, long life hydraulic system, and stainless steel frame and are used at where top security is required. Security and comfort come together due to its compatible structure.



top view



product information



Type	PANZER SERIES					
Dimension	1000x355x35mm					
Model	PS-1	PS-2	PS-3	PS-4	PS-5	PS-6
Rising bollard unit	Unary	Binary	Triad	Quad	Quinary	Senary
Movable part	On 32mm s355 steel pipe, 3mm 316 quality stainless					
Working system	Hydraulic					
Power supply	380 V 3 Phases 50/60 Hz					
Control card	12 in - 8 out PLC					
Opening time	4-6 seconds.					
Continuously of operation	100%					
Lift power for each bollard	1000 Kg					
Limit switch type	Adjustable engine working period					
Working pressure min.	30 Bar					
Working pressure max.	50 Bar					
Manual opening	Global valve					
Manual closing	Manual pump					
Hydraulic oil type	32 or 46 number hydraulic oil					
Bollard color	Satin stainless steel					
Warning light	Led system designed specially in upper					
Hydraulic hose	3/8 r2 330 bars					
Working temperature	-20°C min +70°C max					
Accumulator supply	Yes					
Emergency close	Optional					

THIS TECHNOLOGY
GIVES CONFIDENCE

As you get to know our variety of bollard systems products; you will find that any solution you may need, is already included. So, please visit our website.

www.whiterose.com.tr





WE TRANSLATE OUR TECHNOLOGY INTO COMFORT

Most impressive part of the mentioned technology is that it is fully under your control. Aesthetic button system and connected PLC panel gives the bollard under your control.

Wr200 Button System

Wr200 button system which is the best part of our best systems, has been designed by use of very special materials. The display panels on this system, represent how comfortable an experience it makes your job. Displays show whether there is electricity on the system or not, as well as showing whether the bollard is at on or off position, leading the user to more convenient methods of use. Also at emergencies, it closes the road within 1.5 seconds meanwhile cancelling all security detectors by EFO(Emergency Fast Functioning). When the user is not presently available at the system, he/she can lock the system by the lock system available on the display, therefore preventing unauthorized use.

Control Panel

All this comfort is governed by one unit: Control Panel Control panel is the heart of the system that we have developed for your convenience. Operational performance and management infrastructure owe their success to being integrate under single control panel. When it detects heavy duty/peak use levels; it detects a possible high-temperature issue and activates ventilation/air circulation system therefore making the system work efficiently. Apart from that, the control panel also prevents damage to the movement unit that may arise due to high voltage resistances. Remote administration feature allows you increase your security.



THE CONTROL THAT YOU WOULD LOVE TO SEE

REMOTE ADMINISTRATION PLC SCREEN SPECIFICATIONS

DIGIPAN

Yes, our state of the art high security bollards are equipped with intuitive, easy to understand displays and interfaces, and therefore are easy to use. This system that connects the user and the product is called "Digipan". You can receive information about any function of the product and control any specs of it, through Digipan. And it can be operated in coordination with other computers therefore allowing the user control the system remotely.

DIGIPAN - 1

- Control With Function Key
- 3.5" Screen
- 3 Different Colours Of Monochrome
- Usb Connection
- Waterproof Structure
- Heavy Duty Structure



DIGIPAN - 2

- Touch Control
- 7" Screen
- 65k Colour
- USB, RS232, Ethernet Bağlantı
- Product Movement Display With Animation
- Remote Access Supported

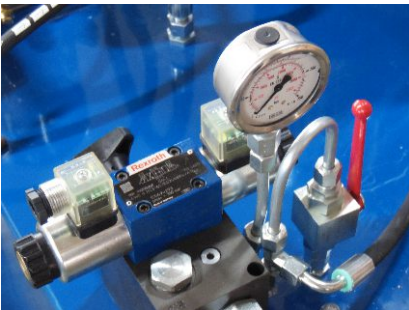


► Touch display for controls
Designated for your comfort

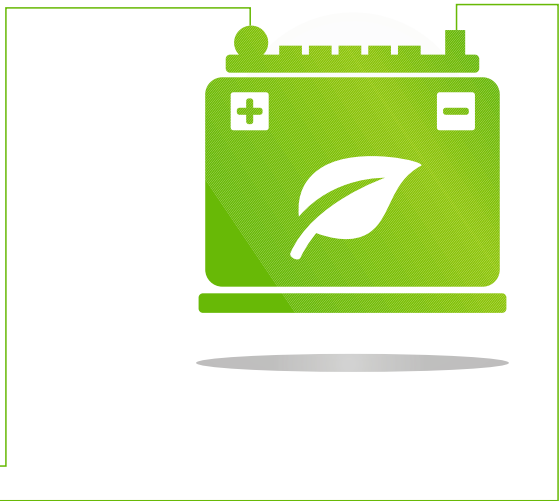
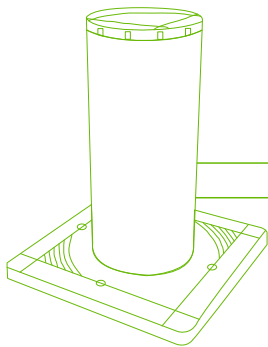
THE HERO BEHIND THE HOOD



Mechanical performance of the security expert that we present for your convenience, makes us proud. Firmness and technology compatibility are integrated within the body of the hydraulic unit, takes its endless power from you.



DON'T LET YOUR SECURITY FAIL



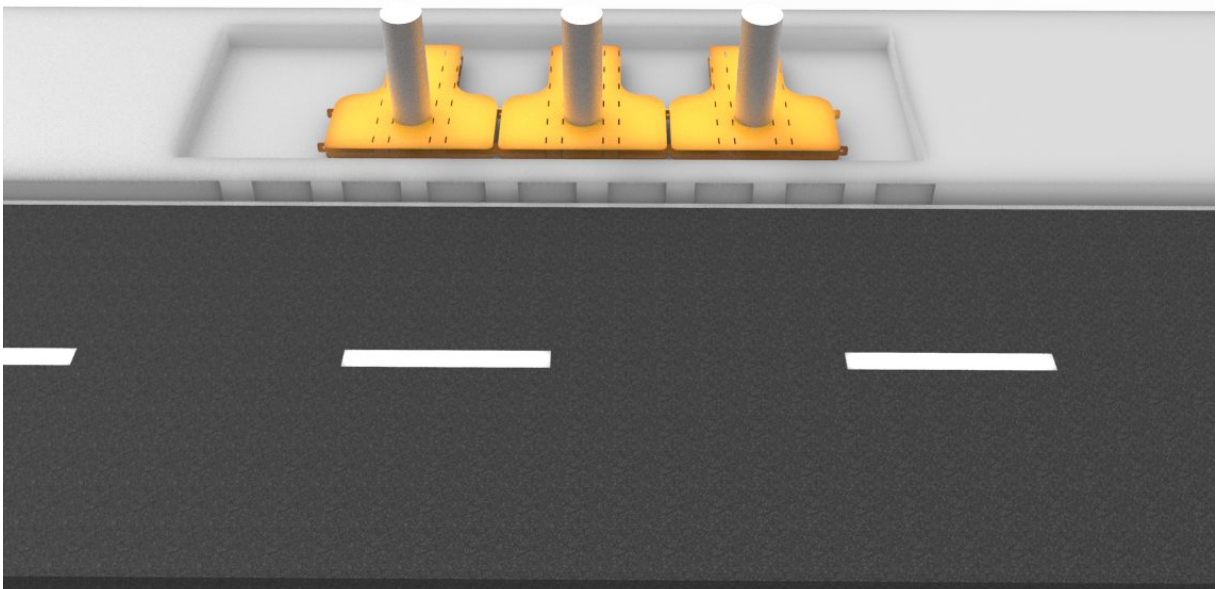
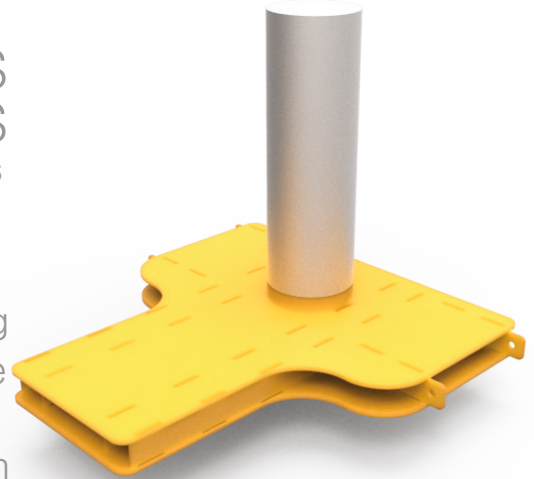
Rising Bollard Systems owes its continuous comfort, also to its extended accumulator technology. This basic property is like a proof of our care and attention for your safety. It doesn't stop protecting you even when the electricity is cut off.



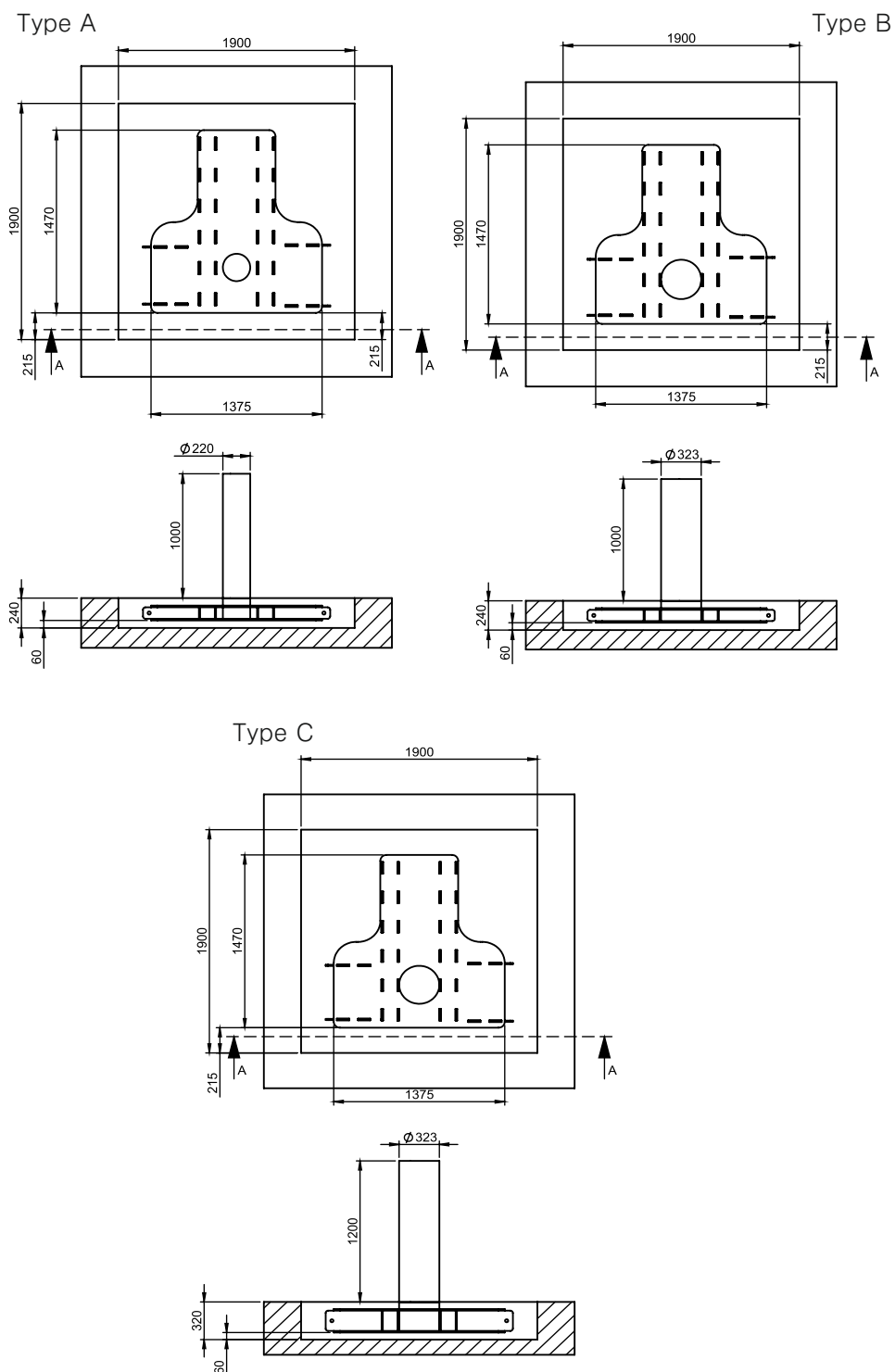
SAFE SERIES FIXED BOLLARDS

safe cities

This item is applied at where the pedestrian traffic is dense (i.e. shopping malls, plazas). These rising bollards are permanently fixed on the ground and provide security around such locations. During the installation of the unit the ground is dug less therefore causing less disturbance to underground infrastructure.



product information



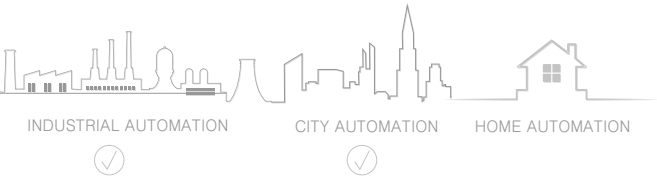


SBL-1 FIXED BOLLARD

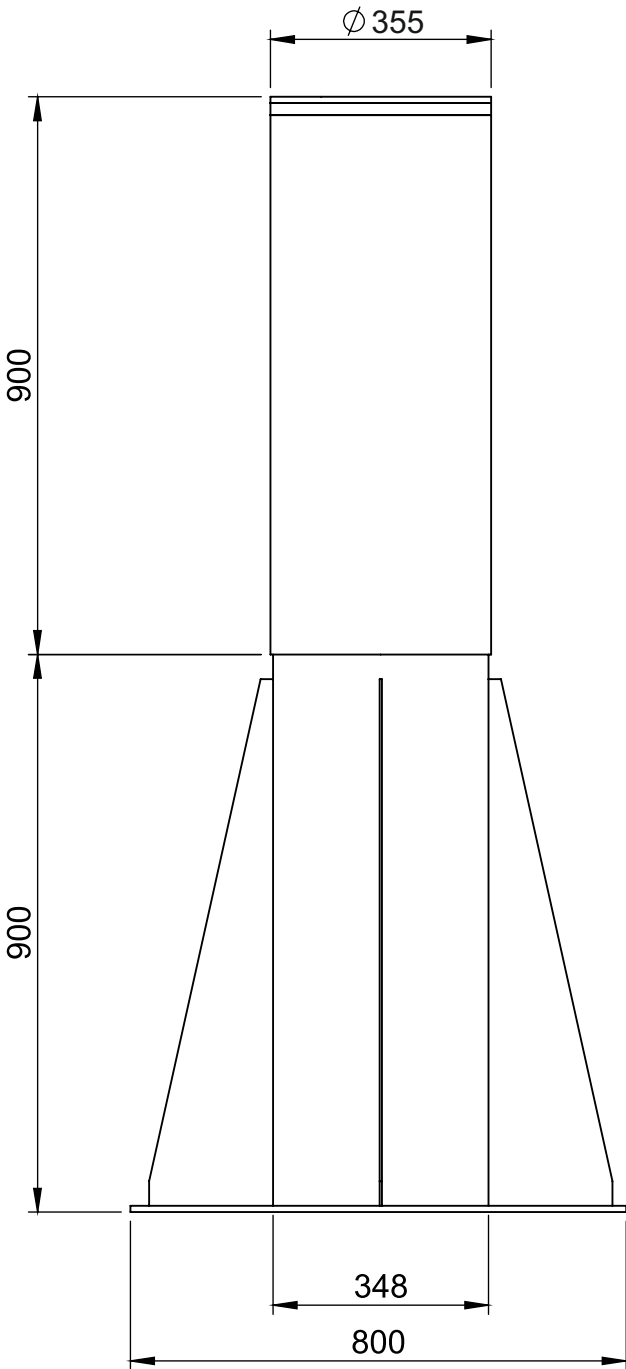
protector of your city

Just as Safe Series, this item is applied at where the pedestrian traffic is dense (i.e. shopping malls, plazas). It is fixed on the ground and provides security around such locations. It will prevent the ill-intentioned vehicles from entering the premises and with its SBL-1 rising bollards it is always ready to protect the user.



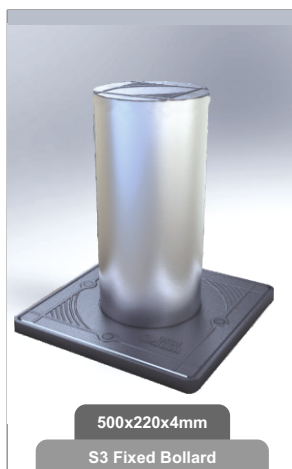


product information

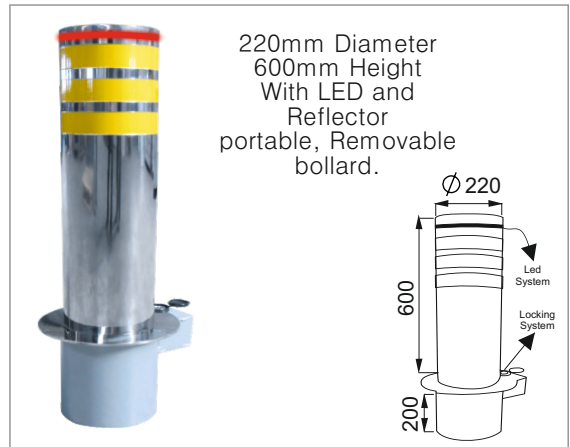
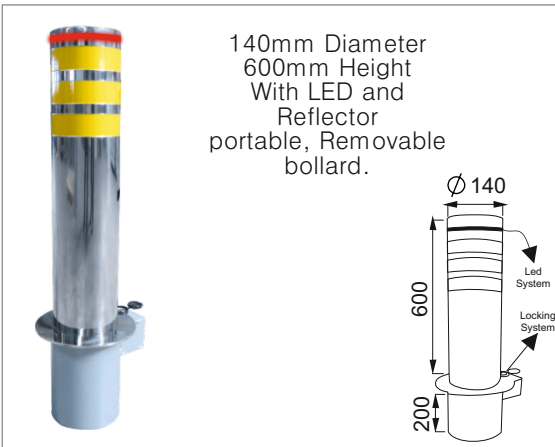
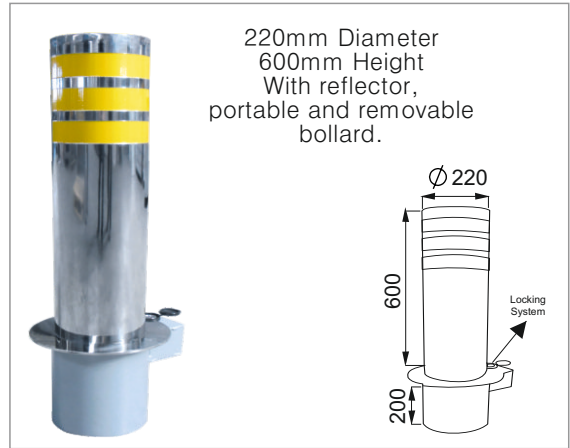
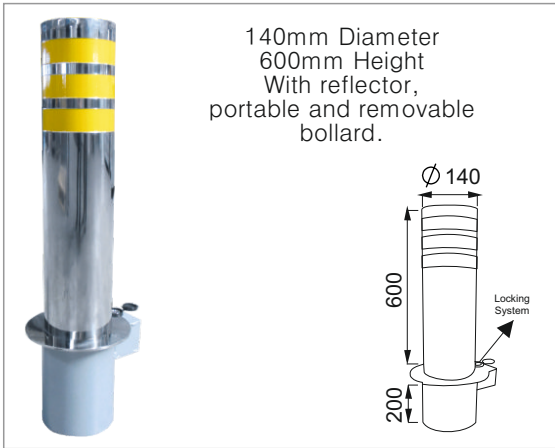


FIXED AND MANUEL BOLLARDS

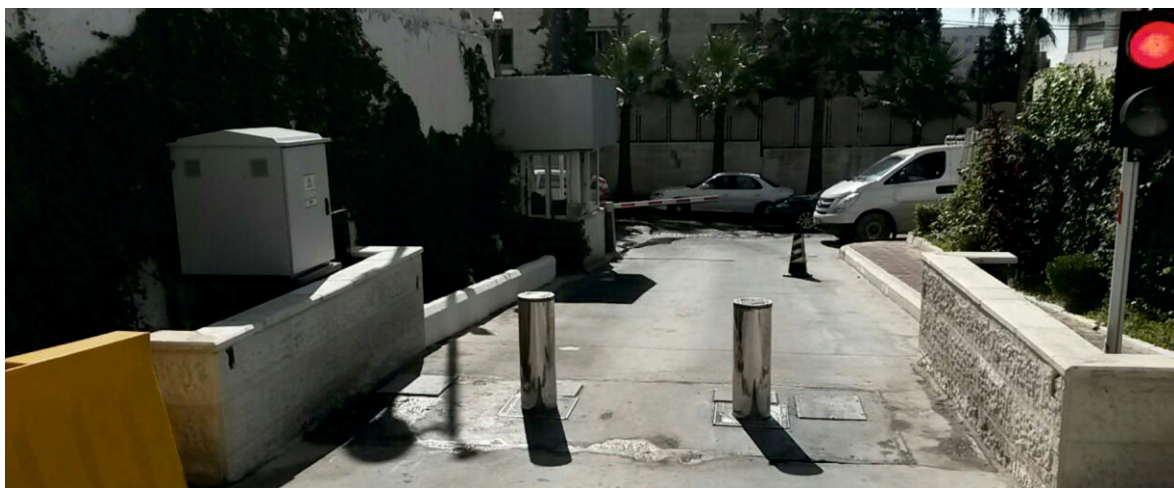
When it is about regulating the dense traffic of the life, our manual and fixed bollards will offer fine quality service and solutions. We provide you with a wide range of products at different size and specifications which will meet your every sort of requirements.



FIXED AND MANUEL BOLLARDS WILL MAKE YOUR LIFE EASIER







BEST OPTION WE OFFER

	TANK COMPACT SERIES	TANK PL SERIES	TANK PS SERIES	PANZER SERIES
Normal Control Panel	✓	✓	-	-
Plc Control Panel	o	o	✓	✓
Dc Motor	-	o	o	✓
Manuel Opening Valve/screw	✓	✓	✓	✓
Manuel Hand Pump	-	o	o	✓
Notification Led System	✓	✓	✓	✓
Accumulator Support	-	o	o	✓
Emergency Shutdown	-	o	o	o
Plc Screen	o	o	o	o
Oil Heater	o	o	o	o
Oil Cooler	o	o	o	o
Crash Test	-	-	-	✓

SYMBOLS and DESCRIPTIONS

- ✓ This Feature is Available
- o This Feature is Optional
- This Feature is Not Available

LET US GUARD
YOUR SAFETY,
YOU ENJOY
YOUR LIFE



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Please read
for the product

RISING BOLLARD SYSTEMS

