

**PANATIN PARS**

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**Panatin Pars Design and Engineering Co.**

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**Desig, Consulting and  
execution of automatic  
doors and road blocker  
and security systems**

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# Road Blockers

## Flat Plate

### Deep flat plate

This type of barrier is designed in various models to prevent the entry of the attacking vehicle.

Defining the required resistances according to the project conditions is one of the advantages of this model.

Design with engineering software makes this system model available to the security team as a powerful tool.



### Movable barrier height

According to standard designs, the height varies from 40 to 80 cm. Height of 60 and 80 cm is more suitable for places where heavy vehicles travel and height of 40 cm is more suitable for passenger cars.

### System performance speed

6-second opening speed is the most suitable option for controlling inputs and outputs.

However, speeds greater than 1 second are applicable according to the project conditions.

Speed changes affect the design of the hydraulic circuit and jacks, which must be selected before starting the design.

### Barrier resistance

The resistance of a structure to an attacking vehicle with a specified weight and speed is defined.

It should be noted that considering the entry conditions, which car can attack and how fast it can attack.

The answer to this question makes a more accurate and optimal choice.

### Stimulus system

This type of barrier moves through the hydraulic unit system. The design of the hydraulic unit is done according to the project conditions. Opening speed, number of traffic and type of hydraulic circuits equipment are important items in the design of the hydraulic unit.

### Release the blocker

To lower the barrier during a power outage, you can use the release mechanism installed on the hydraulic unit.

It should be noted that these systems can be connected to emergency power.



# Road Blockers

## Curved Plate

The application of this system, like the flat plate model, is to deal with different types of attacking vehicles and they are designed in different types. The front curve plate keeps the distance of the collision plate from the system frame constant along the path.



## Command panel

Depending on the needs of the project, PLC control panel or microprocessor control panel is used. The number and type of peripherals and traffic control systems and the choice of control panel type are important.

## Command keys

Up, down and stop keys are the requirements of this system. Due to the need to control the guard or the relevant official on the barrier and peripheral equipment from one or more points, it will be possible to use a variety of control keys and remote control.

## Access control systems

It is possible to connect a variety of access control systems such as license plate readers, car tags, coding systems, fingerprints, etc. on the PLC control panel, and this feature is more limited when using the microprocessor control panel.

## Safety systems

It is possible to connect a variety of safety sensors such as electronic eyes or magnetic loops to ensure the safety of authorized vehicles.

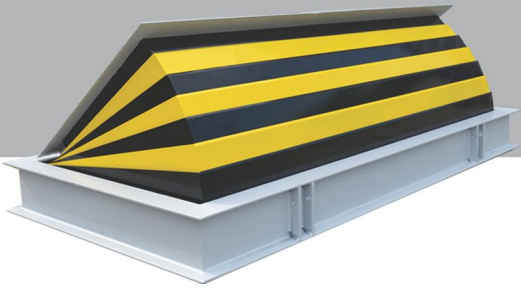
## Traffic lights

It is possible to use the green and red traffic lights to control and announce the direction of movement or stop to drivers.

# Road Blockers

## Low Depth

This type of barrier is used for places where drilling with limited depth is possible. This limitation can be the presence of facilities such as water or gas pipes, fiber optics, main power cables and so on. The required depth for drilling in different models of this type of barrier is between 25 to 50 cm.



## On Surface

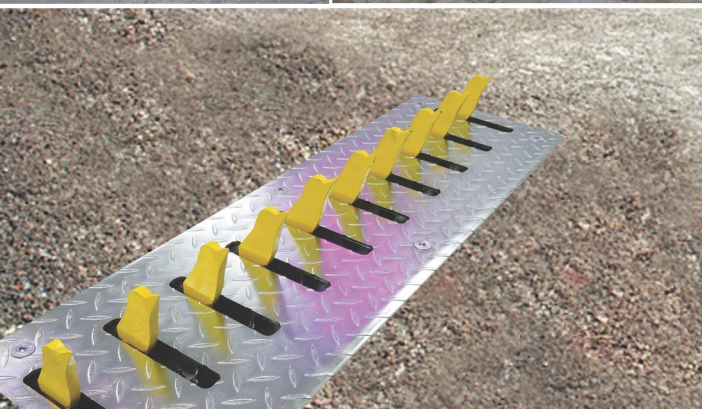
Surface blocker is suitable for places where it is not possible to dig or use it temporarily. These types of barriers are known for their quick installation and easy handling, and security applications can also be defined for them.

## Mini Blockers

These types of barriers have a structure similar to blocking and functional barriers such as bollard column barriers, with the explanation that the movement of people and motorbikes from its shutter is possible and are defined in widths of 30 to 100 cm.

## Blade Blocker and Tire Killer

This model of barrier with a height of 30 to 60 cm is offered automatically as a security barrier and with a height of 12 cm as a spring as a deterrent device for one-way traffic and in forbidden entry routes.



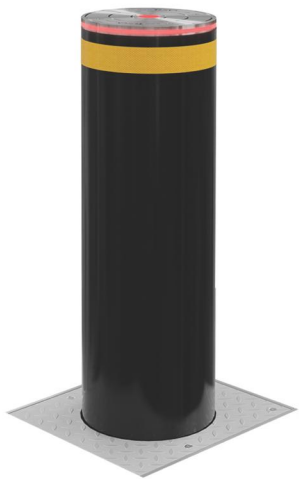
# Bollards

## Automatic and Fix

Bollard barriers are introduced with security anti-terrorism and urban traffic applications. Security models have thicker columns that block the passage of attacking vehicles, and traffic models are less thick and lighter.



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### Control panel and accessories

Depending on the need, PLC control panel or microprocessor control panel is used and it is possible to use various types of control keys, remote control, safety systems, traffic lights and various types of access control systems.

### Movable barrier height

According to standard designs, the height varies from 50 to 120 cm.

### System performance speed

6-second opening speed is the most suitable option for controlling inputs and outputs. However, speeds of more than 2 seconds are applicable according to the project conditions.

### Barrier resistance

The resistance of a structure to an attacking vehicle with a specified weight and speed is defined. The number and distances of the columns from each other are determined according to the required application and resistance.

### Stimulus system

This type of barrier is driven by hydraulic unit system or electromechanical systems. The design of the drive system is done according to the project conditions.

### Releasing the barrier

To lower the barrier during a power outage, you can use the release mechanism installed on the hydraulic unit.

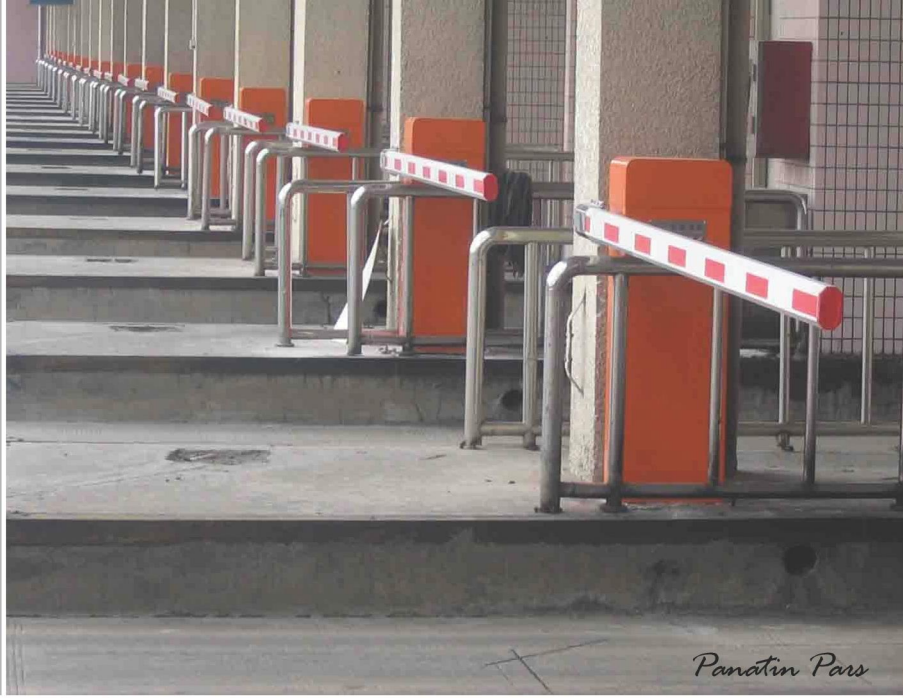


# Barriers

## Hydraulic and Electromecanical

Barriers with arm length of 3 to 8 meters  
In various models suitable for high traffic  
With different operating speeds from  
3 to 8 seconds

Ability to connect to a variety of safety sensors  
Ability to connect to a variety of access  
control systems



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Double-sided fence above and below the arm

One-sided fence under the arm



## Parking area keeper

Parking area keeper The height and width of the obstacles are done according to the order. are produced in small and large types in automatic and manual models