

Hydraulic Road Blocker



Product Description

Safeway System - AT5300 hydraulic road blocker is widely used in highway toll station, checkpoints, prisons, airports, government buildings, embassies, military base-stations, customs, ports, banks, industrial and mining companies, warehouse, parking and all requested places to control vehicle in and out. Operator sends a command through the hydraulic drive to make the road block device quickly lift, preventing the vehicle from forcing through.

Configuration

The underground built road block system is mainly composed of three parts: mainframe, Hydraulic transmission station, electric controller.

1. Mainframe:

The road block mainframe mainly include the flip body or lift body and base composition. The material is 16 mm GB A3 mold steel plate, with strong load-bearing and crash resistance; The mainframe inside have no electricity and power cables, which make the product waterproof and safe. The device is built underground in the lane or the designated location outside the door, controlling the vehicle traffic.

2. Hydraulic transmission station :

Mainly include the fuel tank, manual oil pump, a full set of hydraulic solenoid valve group, high-power motor, oil pump, fuel tank, oil table, oil standard, exterior level device, GB high pressure hydraulic wire and other components. It offer the whole roadblock system power source. The device is installed one side of the roadblock (through the control valve to change the rise and fall rate). In case any power failure, it can be manually placed baffle, also can be manually raised.

3. Electronic controller:

Automatic electronic controller part include controller board, sub-control board, leakage switch, no contact noise high life-time contactor, precision start time set (anti-cylinder stroke in place increased fuel tank life). It cans set the automatic rise (with optional built-in loop detector, the pole will release after car pass). The controller box, remote control and manual button, etc. can be operated by the duty officer.

Advantages

1. Fast response & Low Noise:

Lifting time up to 3 ~ 6s seconds adjustable, much faster than the same size of other manufacturers of roadblock machine, which is extremely valuable. Because of its use of hydraulic drive unit, action up, soft and calm, a good solution to the traditional pneumatic lift due to the problem of large noise pump work.

2. Controller sensitivity:

Controller unit employ multi-functional logic controller, which can adjust a variety of different functional modes to meet the different needs. In addition, the adjustable stroke design, the user can freely control the height of the spikes, effectively save energy consumption.

3. Unique structure

The core part of the hydraulic unit and the mechanical power mechanism as a one-piece design, which can effectively transfer the mechanical energy to the hydraulic drive unit, to acheive action efficient. Hydraulic unit part is with the unique design of the pressure of the helicopter, to acheive excellent performance

4. Safe and reliable:

In case of power outages and other emergencies, the manual operation can be an emergency stop, block the teeth can be dropped to open the channel to release vehicles. The upper and lower parts of the internal fixing mechanism are respectively equipped with current sensing sensors and electromagnetic sensors, thus realizing the effective limit of overcurrent protection and operation of the power unit, and the operation is stable and reliable.

5. Low cost

Because of their own hydraulic drive mode, environmental protection and energy saving, low consumption, lower failure rate, longer life, reducing maintenance costs. In addition, the use of non-traditional steering mechanism design, which make the installation and maintenance, more simple and quick.

Specification:	
Control system	electric hydraulic
Power	380v (three phase four wire)
System power	4.0kw
Weight capacity	100T
Opening time	3~6s (can be adjustable)
Closing time	3~6s (can be adjustable)
Communication	RS485≤1200M
Blade height	635mm
Operating temperature	-35°C-75°C
Storage temperature	-40°C-75°C, waterproof, dustproof
Body size	Barrier machine Dimensions 3400(L)*1280(W)*760(H)mm
Hydraulic pressure is adjustable, the normal pressure should be adjustable below 50KGF, the maximum can not exceed 70KGF.	
Clamshell height 635+-5mm, height and length of the size can be customized according to customer needs.	
Product features:	
1.Durable, Operate Smoothly, Low Noise, Fast speed, long life-time.	
2. Micro-control technology makes system stable and reliable, Easy integrate into other systems.	
3. Compatible with road barrier, turnstiles and other access system control to achieve automatic control.	
4. Advanced and mature Hydraulic pressure technologies, make the system high reliability, security and stability.	
5. Manual setting meet anti-fire management's requirements. In the case of a power failure or in the event of a system broken-down, if the roadblock is in a raised state, it can move the raised roadblock cover to a horizontal position by manual operation; if the roadblock is in the off state, it can raise the roadway cover by manual operation to prevent the vehicle from entering.	
6. Automatic hydraulic system device Remote control device: Remote control system realize wireless control up&down within 100 meters range. Manual button device: by the manual switch button in the control box.	
7. Optional functions: Swiping card system: built-in card reader to control bollards up&down. Barrier and car stop linkage: with barrier (block device) / access control, can achieve barrier, access control and carlock linkage. Connect to the computer tube buried system or charging system: can connect tube embedded system and charge system, computer unified control.	
8. Convenient maintenance: when the structure fails or the body is overhauled, the motor control box can be opened, and the corresponding operation can be carried out	