

# Hydraulic Bollard Barrier System

## AT5200



### Introduction

AT5200 Hydraulic bollard barrier system is widely used in airports, customs, ports, embassies, military bases, banks, prisons, government building, parking lots, etc. to control vehicle access. Through the control system, the bollards are hydraulically driven to up and down quickly.

AT5200 adopts hydraulic drive technology, which is stable and fast. The operation is simple and flexible. It has strong load-bearing and anti-collision capability, low noise, safe and reliable.

### Product highlights

➤ **Fast speed and low noise**

The fastest time of lifting is 3.9 seconds, adjustable. With a hydraulic drive unit, its operation is low noise.

➤ **Convenient Control**

The control unit uses a versatile logic controller, with a variety of functional modes to meet different requirement by clients. The movement can be set to time controlled and the user can freely control the lift height to save energy consumption.

➤ **Unique Design**

The core part of the hydraulic unit and mechanical mechanism is integrated. Mechanical energy can be effectively transmitted to the hydraulic drive unit, and the operation is efficient. Hydraulic unit is a unique design to increase the pressure directly.

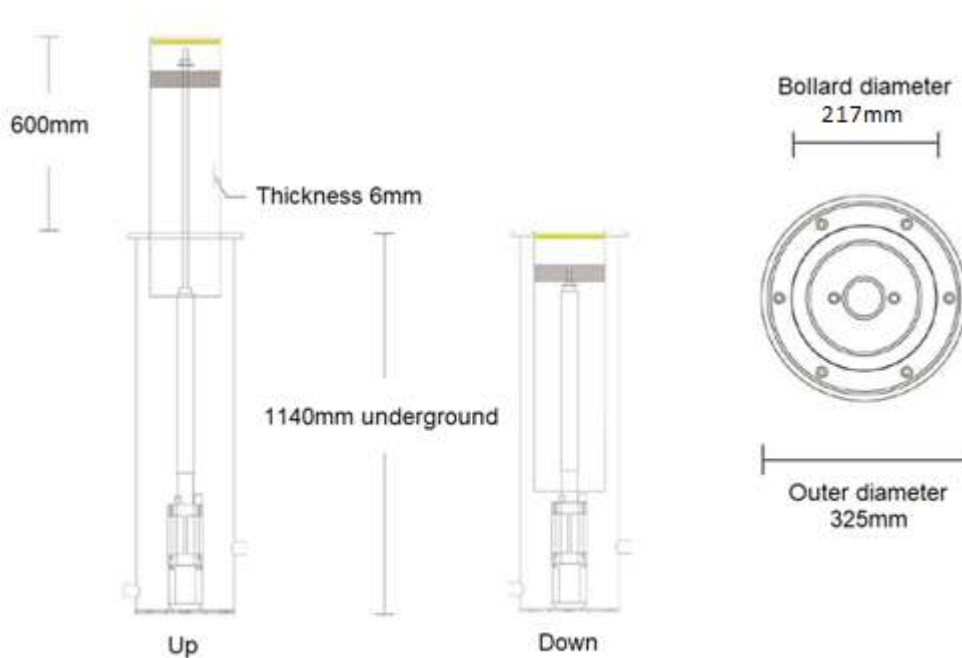
➤ **Safe and Reliable**

In case of power outage and other emergency, the bollards can be controlled manually by emergency button to decrease. Top and bottom internal fixed parts are equipped with a current detection sensor and a magnetic sensor respectively, to avoid over-current and limit the bollard movement.

**Structure and components**

**1) Bollard body**

The bollard body is mainly composed of a lifting cylinder and a machine base. The bollard body is made of 304 stainless steel. It is made of 6mm thick seamless steel pipe, with high strength bearing and impact resistance. It equipped with yellow reflective tape and high-bright LED light.



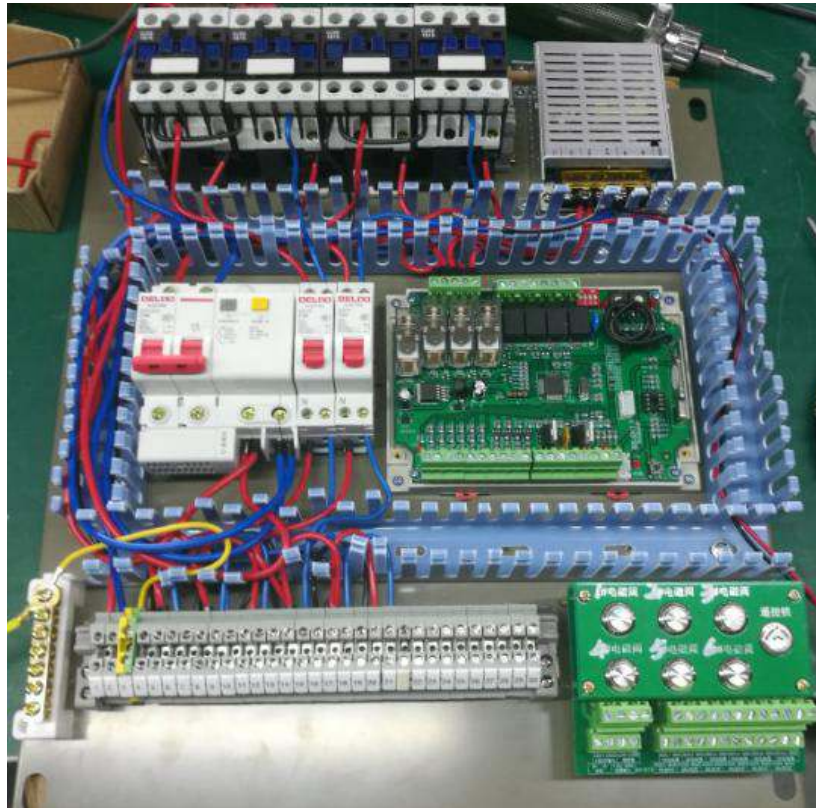
**2) Hydraulic moving core**

The hydraulic core consists of a fuel tank, a motor and an oil pump. It is the power source of the hydraulic bollard barrier system. It is installed inside the bollard body and used together with the bollard. The rising and falling speed can be changed by the regulating valve. In case of power cut, it can be manually lowered by the backup power supply.

**3) Electronic controller**

It includes master control board, auxiliary control board, leakage switch, non-contact noise long-life contactor, precise starting time setting (To increase the service life of the cylinder by avoiding the impact force generated when the cylinder stops). Automatically rise is an option (by adding the ground sensor). Automatic controller: including control box, remote control, manual button, etc. controlled by the officer on duty.





## General specification

- Control System: Electric Hydraulic
- Power consumption: 300W per bollard
- Maximum bearing capacity: 100 tons
- Opening time: 3.9s (adjustable)
- Closing time: 3.9s (adjustable)
- Communication: RS485
- Bollard height after rising: 600 mm
- Bollard diameter: 217 mm
- Warning sign: Yellow reflective tape and high-bright LED light
- Remote control distance: 30m
- Hydraulic pressure: 50 KFG, maximum 70 KFG

## Operating environment

- Power supply voltage: 220V
- Working temperature: -30 C~55 C
- Storage requirement: -30 C~55 C rainproof, moisture-proof and dust-proof
- Working humidity:  $\leq 95\%$  (no condensation)



