



# Tripod Turnstiles



## ES3000

### Universal Box Electric Tripod Turnstiles

Tripod Turnstiles is an intelligent entrance control equipment. Essence's ES3000 is equipped with an extremely robust mechatronics bridge tripod mechanism with outstanding performance. The whole design is rational and functional with anti-trailing properties. Easy and quick installation means it is a very cost effective device on performing security entrance control plus deterring ruffian on less than ideal situation.



railway/subway/ bus stations



parks , scenic spots



office buildings and industrial plants



clubs, movie theatres ,exhibition centers

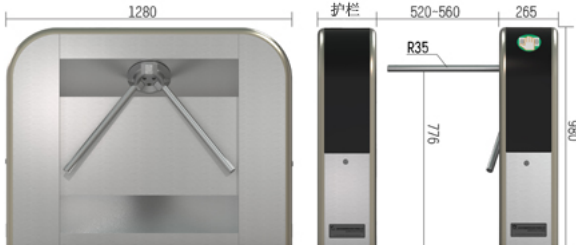


airport and export ports, quays

# ES3000 Universal Box Electric Tripod Turnstiles

## Technical Specifications

### Physical dimension (mm) and Weight(kg)



Length:1280mm (50.394 inches)  
Width:265mm (10.433 inches)  
Height:980mm (38.583 inches)  
Weight:100kg (220.462 pounds)  
Packaging: length(1400mm),width(400mm),height (1200mm)

### Main materials

Housing: 1.5mm thick SUS304 Grade Brush stainless steel  
Framework: 2.0mm SUS304 stainless steel  
Electromechanical unit: 45# steel with Zinc plated  
Flange: Cast aluminum with Sand Blasted finishing.  
Crossbar: 1.5mm thick SUS304 Grade Brush stainless steel

### Electromechanical unit performance

Transmission mode: servo-position drive  
Safe mode:the arm dropping function provides free and unobstructed safe passage for users in case of power failure  
Power-assist drive:DC brushless motor  
Crossbar control: clutch device with strength over 80kg  
Noise:≤52db; gate opening and closing:≤55db  
Passage width:520--560mm  
Passthrough rate:30 passages/minute  
Driver life: 5 million times

### Features

- Unique DC 24V mechanical bearing locking and multilevel sensor positioning structure provide high security and silent smooth operation.
- The system is equipped with stepless positioning apparatus and the operation is controlled by sensors without mechanical impact.
- Digital-controlled (CNC) processing technology, fine surface treatment and corrosion resistance.
- Anti-trailing: security level 3 (See Remarks)

- Crossbar orientation: one or both directions(optional); adjustable passthrough rate; optional operation modes.
- Lightning protection and leakage protection.
- Protection functions: anticollision, antistall, over voltage, over current and powersurge.
- Preventing and warning the illegal operations.
- Standard external electric interface with photoelectric isolation enhance incorporate all kinds of control equipments thus extremely convenient for system integration.
- Remote control and setup.

### Electrical and operating requirements

Power supply:100V to 240V AC  
Frequency range:single-phase 50Hz to 60Hz  
Operating voltage:DC 24V  
Current: 300mA in standby condition; 3A(maximum operating current)in working condition  
Operating temperature: -20 to 70°C(-4 to 158°F)  
Storage temperature: -40 to 80°C(-40 to 176°F)  
Relative humidity: 0% to 95%RH

### Communication

Standard RS232 port  
Digital I/O  
Industrial RS485/CAN BUS (optional)

### Operation instructions(user's choice)

Orientation pictogram



Status LED

Indicator LED

### Operation interface (user's choice for expansion)

Available in the installation environment for card reader  
Available in the installation environment for LED or LCD monitor  
Available in the installation environment for other user control equipments

### Installation

Single-phase power supply 3A 110 to 220V AC+ground (earth)  
Connecting electrical wiring to the control equipments  
Slab to be drilled on Structural Slab Level and dowelled on Finished Floor Level to secure in position  
Please refer to ES3000 Installation Drawing

### Remarks:

Security level 1: Provide basic anti-trailing system; relatively short equipment; basic level of single passage regulation in both directions;  
Security level 2: Provide the best length and structure for anti-trailing identification system; basic level of single passage regulation in both directions and identification to child and trolley;  
Security level 3: This equipment is equipped with mechanical device and sensors to identify bi-direction passage and prevent trailing.