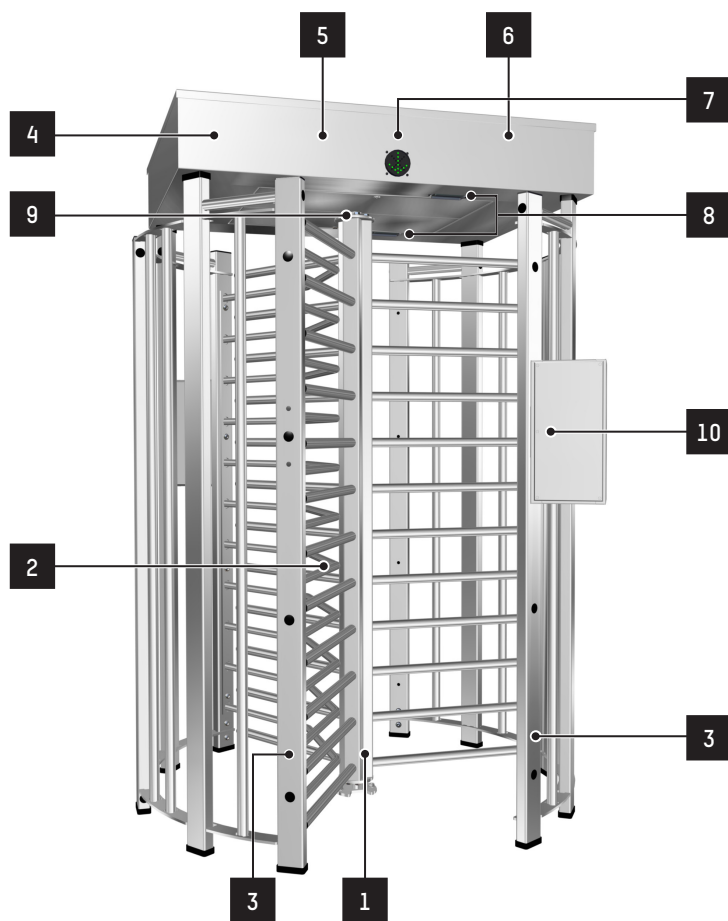


TRS 370

Datasheet

Rev. I

AUTOMATIC
SYSTEMS



The TRS 37x Series security turnstiles are designed to ensure high-security access control and pedestrian traffic management.

The fruit of more than 40 years of experience, the sturdiness of their design and their total autonomy makes them particularly suitable to the external security of high-traffic sensitive sites, such as industrial, sports and commercial complexes, offices, airports, power plants, amusement parks, military bases, parking facilities, etc.

The turnstiles in the range are bidirectional and manually operated. They can also be linked together in line.

In this Series, the **TRS 370** is a **3-arm, single-lane turnstile**, offering users comfortable passage in a **120° segment**.

DESCRIPTION

1. **Rotating obstacle with 3 combs** positioned at 120° to one another. Each comb consists of steel tubes welded to a vertical upright. The whole item is fixed to the upper rotating part and to the lower central wheel disc.
2. **Fixed comb** limiting passage to half of the turnstile, consisting of steel tubes bolted to the vertical uprights of the curved parts **3**.
3. **Curved parts** limiting passage, consisting of vertical tubular steel profiles (rectangular and round), welded to a curved plate. This structure also supports the head unit **4**.
4. **Head unit** holding the feed mechanism **5** and the control logic **6**, in sheet steel, with a double door fixed by lock and key. Diamond point roof for evacuation of water.
5. **Feed mechanism** consisting of:
 - Compensation arms with tension springs to keep the obstacle in neutral after passage.
 - Hydraulic damper slowing movement at end of cycle to enhance ease of use.
 - Mechanism preventing return of obstacle after 60° rotation, preventing passage fraud in the opposite direction.
 - Electromagnet(s) and cams ensuring mechanical locking of the obstacle in neutral position (only if at least one direction of passage is controlled).
6. **Control logic** (only if at least one direction of passage is controlled), the main functions of which are :
 - Parameters set using an integrated keyboard and LCD screen, or a Modbus link with remote control.
 - Connection block for various commands (readers, unlocking ...) and recovery of information (position, counting ...).
 - Configuration of controlled operating mode.
 - Management of time delays (of absence of passage for instance).
 - Memorization of passage requests.
7. **Orientation pictograms** on the head unit.
8. **Passageway lighting** in the head unit.
9. **Dust-free seal** between the central axis of the obstacle and the head unit.
10. **Aluminum reader box**, equipped with a front panel in Trespa®, mounted on the TRS upright. If the opening is controlled in both directions, this type of box can be installed in direction A or direction B. (available as an option).
11. Automatic Systems supplies the anchoring bolts to fix the equipment upon firm flooring.



MODES OF OPERATION

For each direction of passage, the possible configurations are the following (to be specified with the order):

1. Free access (obstacle turning freely).
2. Permanently locked (obstacle blocked mechanically).
3. Locked, but unlocked in case of power failure.
4. Electrically controlled (free, locked, passage subject to authorisation) and locked mechanically in case of power failure.
5. (Standard) Electrically controlled (free, locked, passage subject to authorisation) and unlocked in case of power failure.

STANDARD TECHNICAL CHARACTERISTICS

Power supply ^(*)	Single phase 120 Vac - 60 Hz
Rated power ^(*)	70 W (without optional heater)
Ambient operating temperature	From 14 °F to 122 °F (-10 °C to +50 °C) without optional heater
Relative ambient humidity	95%, without condensation
Net weight	730 lb (331 kg)
Flow	15 to 20 passages per minute, depending on the reaction time of the access control system
MCBF (Mean cycles between failures)	3,000,000 cycles, in compliance with recommended maintenance
MTTR (Mean Time To Repair)	20 minutes
IP Rating	IP43
	ETL Listed no 3117963 Conforms to UL std 325 Certified to CAN/USA std C22.2 NO 247

OPTIONS

Canopy, lateral dripping, climb proof.
Heating (450W 120V fan heater) for operation in ambient temperature down to -31 °F (-35 °C) .
Non standard RAL color. ⁽¹⁾
Fixing frame to be embedded in a concrete slab - Single passage.
Key-operated firemen's release (per French standards). 
Twilight photocell ^(*) .
Rotating arms made of stainless steel 304 - 3 arms at 120° - Single passage.
Rotatings arms with antibacterial cover - 3 arms at 120° - Single passage.
Heel protector on the lowest arms of the rotor - Single passage.
Reader integration (reader supplied by customer).
Two (large) boxes for integration of access control features - Single passage - A & B directions ^(*) .
Treatment for aggressive saline environment. ⁽²⁾

 Configuration required.

⁽¹⁾ RAL to be specified when ordering.

⁽²⁾ Recommended for an installation within 6 miles (10 km) of the coast: sandblasting + Alu Zinc plating 80µm outside (40µm inside) + polyzinc 80µm + 80µm powder coat.

^(*) Only for a turnstile equipped with a control logic, that is to say operating in mode 3, 4 or 5, at least in one direction.



SURFACE TREATMENT

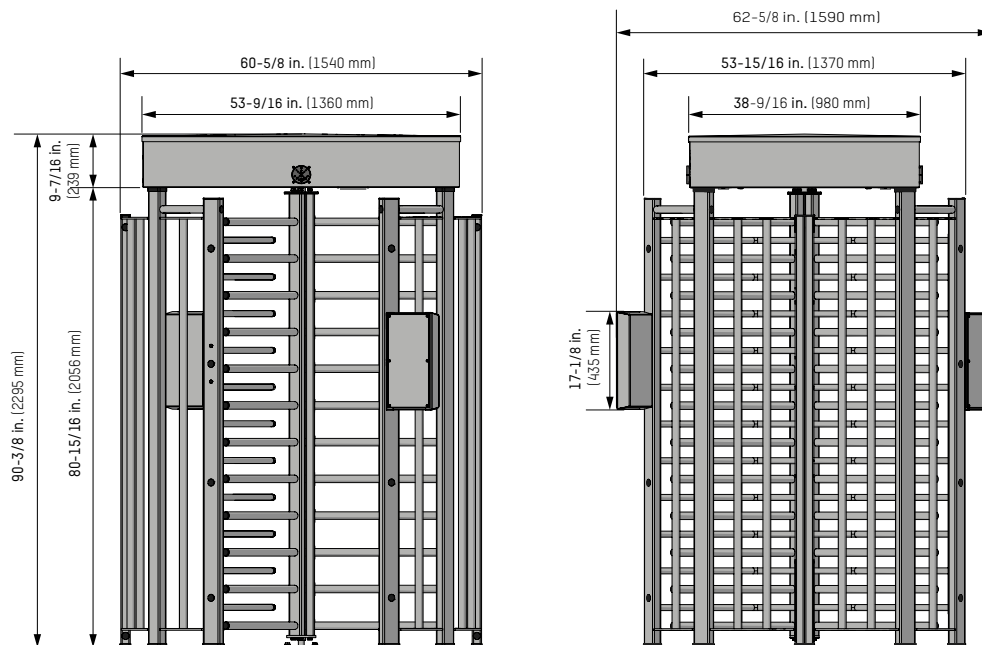
- Galvanized internal mechanical parts.
- **Housing:**
 - Turnstile obstacle **1**, galvanized fixed comb **2** and panel **3** galvanized.
 - Head unit **4** treated by electrophoresis.
 - Two coats of paint RAL7038 (Agate Gray).

WORKS TO BE PROVIDED BY THE CUSTOMER

- Masonry work as required per general layout drawing.
- Power supply ^(*).
- Anchoring to the floor.
- Electrical connections to the access control system ^(*).

^(*) Only for a turnstile equipped with a control logic, that is to say operating in mode 3, 4 or 5, at least in one direction.

STANDARD DIMENSIONS (INCH & MM)



 **Automatic Systems America Inc.**
4005, Boulevard Matte
Local D, Brossard
Quebec J4Y 2P4 – Canada

 sales.nam@automatic-systems.com

 (450) 659-0737 or (800) 263-6548

 www.automatic-systems.ca
www.automatic-systems.us



NAM-TRS 370-FT-EN-I