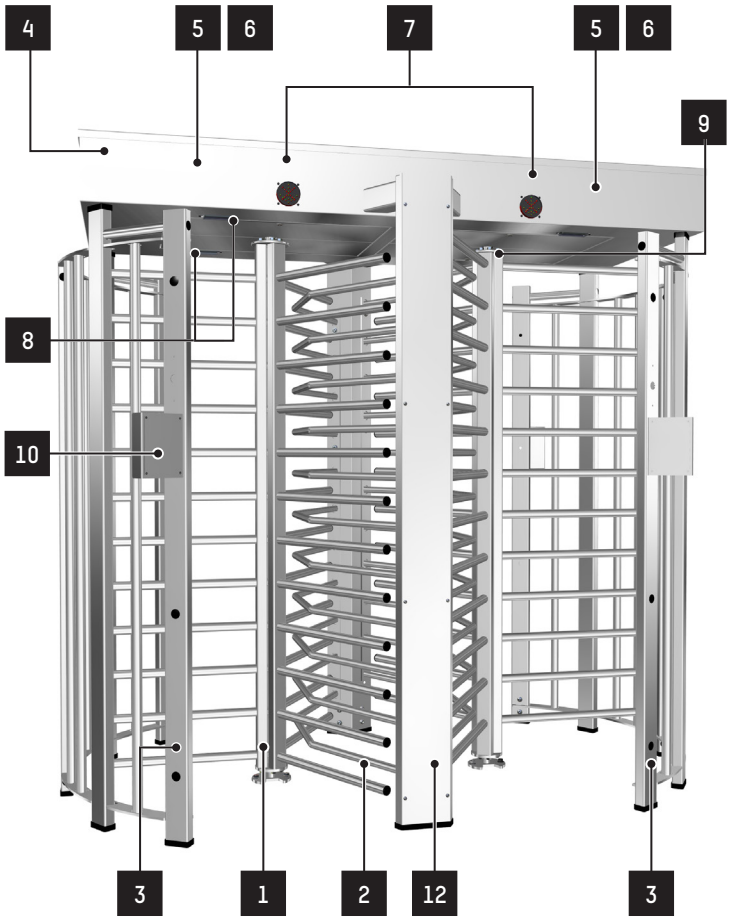
# TRS 372

## Datasheet

Rev. G•

AUTOMATIC SYSTEMS

WARRANTY 2 YEAR




The TRS 37x range 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 bi-directional and manually operated. They can also be linked together in line.

In this range, the **TRS 372** is a **3-arm, dual-lane turnstile**, offering users comfortable passage **in a 120° segment**.

## DESCRIPTION

1. **Two rotating obstacles 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 combs** limiting passage to half of the turnstile, consisting of steel tubes bolted to centre uprights 12.
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:
   - Compensating 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. **Reader box** in powder coated steel (available as an option) fixed to the upright of the TRS. If opening is controlled in all four directions, this type of box can be fixed in direction A & B & C & D.
11. Automatic Systems supplies the anchoring bolts to fix the equipment to the ground.

## 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 | 1204 lb (546 kg) |
| Flow | 15 to 20 passages per minute per lane, 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<br>Certified to CAN/USA std C22.2 no. 247 |

## OPTIONS

| |
|---|
| Canopy - Double passage AB+CD. |
| Heating (450W 120V fan heater) for operation down to -31 °F (-35 °C) |
| Non standard RAL color. (1) |
| Fixing frame to be embedded in a concrete slab - Double passage. |
| Key-operated firemen's release (per French standards - Per passage AB or CD. ⓘ |
| Twilight photocell (*). |
| Rotating arms made of stainless steel 304 - 3 arms at 120° - Double passage. |
| Rotating arms with antibacterial cover - 3 arms at 120° - Double passage. |
| Heel protector on the lowest arms of the rotor - Double passage. |
| Reader integration (reader supplied by customer). |
| Four (big) boxes for integration of access control features - Double passage - A & B & C & D directions (*). |
| LED pictograms on boxes (double lane) - A & B & C & D directions. |
| Treatment for aggressive saline environment. (2) |

ⓘ Configuration required.

(1) RAL to be specified when ordering.

(2) Recommended for an installation within 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.

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## SURFACE TREATMENT

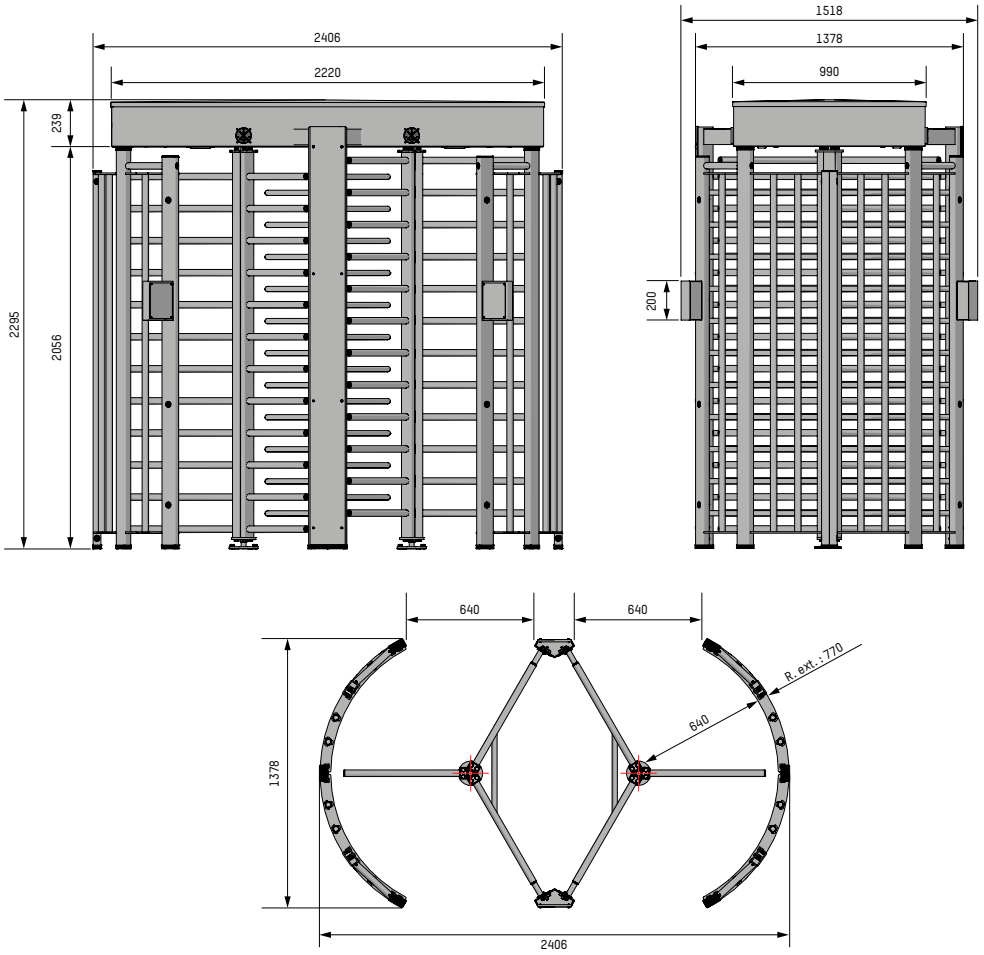
- Galvanized internal mechanical parts.
- **Housing:**
  - Turnstile obstacle 1, galvanized fixed comb 2 and panel 3 galvanized.
  - Head unit 4 treated by electrophoresis.
  - Two coats of paint RAL7038 (Agate gray).

## WORKS TO BE PROVIDED BY THE CUSTOMER

- Masonry work as required per general layout drawing.
- Power supply [*].
- Anchoring to the ground.
- 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 (MM)





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