TRS 373

Datasheet

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The TRS37x range full-height turnstile is designed to ensure high-security access control and management of the flow of persons.

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 activated manually. They can also be linked together in line.

In this range, the **TRS 373** is a **double gate turnstile with 4 wings**, thereby offering a 90° passage section, ensuring a reduction of attempts to breach the single nature of passage.

STANDARD EQUIPMENT

1. Rotating obstacle with 4 combs positioned at 90° 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 central fixed panel (**10**).
3. Fixed panels limiting passage, consisting of vertical tubular steel profiles (rectangular and round) welded together. These structures also support the upper box section (**4**).
4. Upper box section holding the feed mechanism (**5**) and the control board (**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 the end of the cycle to enhance ease of use.
   - Mechanism preventing return of obstacle after 45° 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: see "Operating modes" paragraph).
6. Control board (only if at least one direction of passage is controlled: see "Operating modes" paragraph), 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 (for instance, absence of passage).
   - Memorization of passage requests.
   - Etc.
7. Orientation pictograms on the upper box section (*).
8. Passageway lighting in the upper box section (*).
9. Dust-free seal between the central axis of the obstacle and the upper box section.
10. Automatic Systems supplies the necked-down bolts to fix the equipment upon firm flooring.

OPERATING MODES

For each direction of passage, the possible configurations are the following (to be set using the control):

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 / 230 VAC - 50/60 H [1]
Consumption [*]	70 W [1]
Ambient operating temperature	From -10 to +50°
Relative ambient humidity	95%, without condensation
Net weight	690 kg
Flow [1]	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
CE	Complies with European standards

[1] Per lane.

SURFACE TREATMENT

- Galvanized internal mechanical parts.
- **Housing:**
  - Turnstile obstacle (**1**), galvanized fixed comb (**2**) and panel (**3**) galvanized.
  - Upper box section (**4**) and central uprights (**10**) treated by electrophoresis.
  - Finished in 2 coats RAL7038, RAL6005, RAL7016 or RAL9010.

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 [*].

OPTIONS

1. Key-operated firemen's release (per French standards). ⓘ
2. Light sensitive switch [*].
3. Heating for operation up to -35°C.
4. Power supply 120V 60Hz (compliant with UL standard).
5. Non standard RAL colour. [1]
6. Treatment for aggressive saline environment. [2]
7. Rotating arms made of stainless steel 304 - 4 arms at 90° - Double passage.
8. Rotatings arms with antibacterial cover - 4 arms at 90° - Double passage.
9. Heel protector on the lowest arms of the rotor - Double passage.
10. Canopy.
11. Four (big) boxes for integration of access control features - Double passage - A & B & C & D directions [*].
12. LED pictograms on boxes (double lane) - A & B & C & D directions.
13. Fixing frame - Double passage.

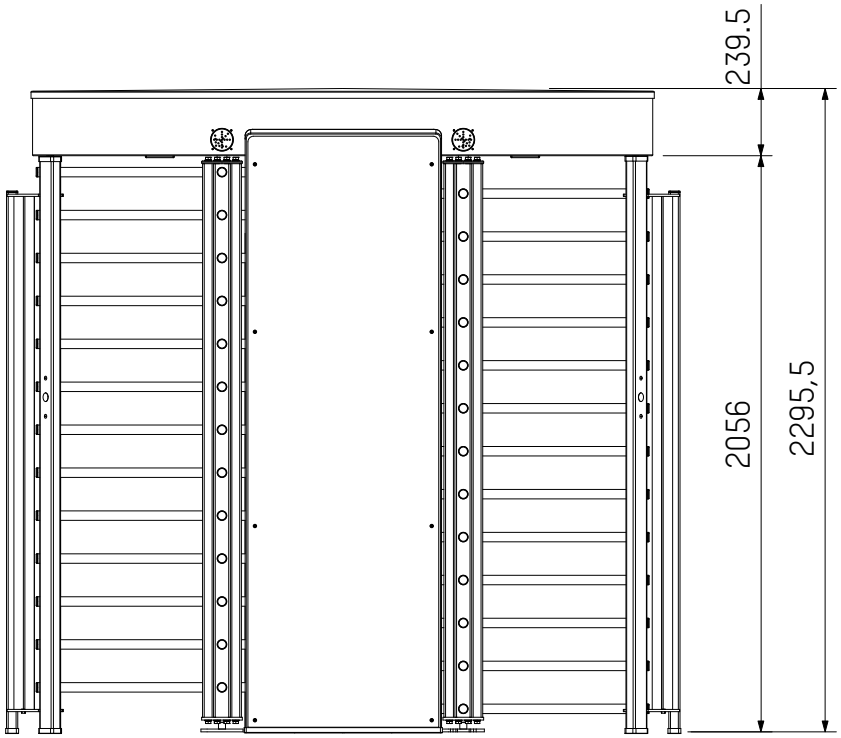
ⓘ Configuration required.

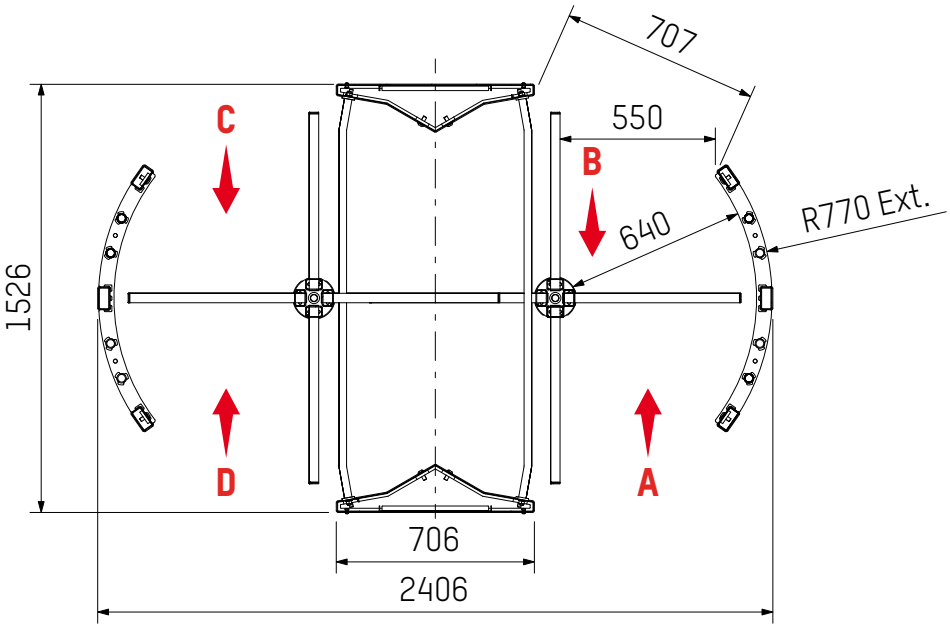
[1] RAL to be specified when ordering.

[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 board, that is to say operating in mode 3, 4 or 5, at least in one direction.

STANDARD DIMENSIONS (MM)





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