



The TRS37x range full-height turnstiles are 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 370 is a **single gate** turnstile with **3 wings**, thereby allowing users easy passage in a 120° segment.

Standard equipment

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 fixed panel (3).
3. Fixed panel limiting passage, consisting of vertical tubular steel profiles (rectangular and round), welded to a curved plate. This structure also supports 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 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: see "Operating modes" paragraph).
6. AS 1300 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 (of absence of passage for instance).
 - Memorization of passage requests.
 - Etc.
7. 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 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. Electrically controlled (free, locked, passage subject to authorisation) and unlocked in case of power failure.

Surface treatment

- Galvanized internal mechanical parts.
- Bodywork:
 - Turnstile obstacle (1), galvanized fixed comb (2) and panel (3) galvanized.
 - Upper box section (4) and uprights (8) treated by electrophoresis.
 - Finished in 2 coats of pale grey paint RAL7038.

Technical characteristics

- Power supply (*): single phase 120 / 230 VAC - 50/60 Hz.
- Nominal Power consumption (*): 70 W.
- Operating temperature: from -10 to +50°C.
- Max. relative humidity: 95%, without condensation.
- Net weight: 393 kg.
- Flow: 15 to 20 passages per minute, depending on the reaction time of the reader.
- MCBF (mean cycles between failures), respecting the recommended maintenance: 1,000,000 cycles.
- MTTR (average repair time): 20 minutes.
- IP 43
- Conforms to EC standards.

At customer's charge

- Masonry work as required per general layout drawing.
- Power supply (*).

Options

- Turnstile obstacle in AISI 304 stainless steel.
- Identical RAL paint for the fixed comb, the fixed panel and the upper box section (the turnstile obstacle is in RAL 7038).
- Intermediate locking of the obstacle after turning through 60° (blocking of the user inside the turnstile for dual control of access) (*).
- Key for the mechanical unlocking of the obstacle.
- Orientation pictograms on the upper box section (*).
- Hood.
- Passageway lighting in the upper box section (*).
- Light-sensitive switch for the control of the lighting (*).
- Heel guard on the tube of the mobile comb nearest to the ground.
- Fixing frame to be embedded in the concrete, to fix the equipment.
- Dust-free seal between the central axis of the obstacle and the upper box section (advised for very dusty environments).
- Painted steel box to hold additional equipment, fixed upon a rectangular vertical upright (3).

Warning

For safety reasons it is recommended that children should be under the supervision of an adult whenever close to the turnstile or passing through it.

(*) 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.

