



Light and robust full height construction, high quality, trouble-free operation and simple mechanism make the REXON-ECO turnstile to be the best solution for applications where maximum security and automatic unmanned identification of people is required.

Long durability and reliability for both in- and outdoor installation is guaranteed by anti-corrosion treatment of all components and precise surface finish. Modern design, construction and colour variability, cost-effective operation and integration of different identification devices make the REXON-ECO turnstile to be an extensively used part of access control systems.

The REXON-ECO turnstile can have following drive units:

Electro-mechanical drive unit TE2

Operation of the tripod turnstile is controlled by an electro-mechanical mechanism with following standard features:

- A locking system with electromagnets that prevents two passages in one time
- A self centering mechanism to complete rotation of the turnstile into the home position
- A hydraulic shock absorber to ensure smooth and progressive slowing down operation
- A blocking mechanism that prevents from reverse rotation.

Mechanical drive unit has got the same features as electro-mechanical one except there isn't a logic unit and other parts to control the turnstile. Such a turnstile is used for monitoring and directing of people.

Motorised drive unit MT

High comfort, reliable and trouble-free operation are the priorities of the REXON-ECO turnstile with motorised drive unit. The standard features are:

- Effective blocking system in combination with motorised drive unit
- Automatically set rotation speed according to a force the turnstile has been pushed
- Torque setting option
- High level of personal security achieved by stopping the rotation if an obstacle is detected
- Very silent and smooth operation
- Adjustable slowing down of the turnstile.

Turnstile variability

Regarding the number of wings on the rotor, there are several different types of the REXON-ECO turnstile:

- 2 wings (angle 180°) - only with MT unit
- 3 wings (angle 120°) - any drive unit
- 4 wings (angle 90°) - only with MT unit.

Materials

Casework:	Hot zinc treatment or RAL colour or AISI 304 Polished/Brushed Stainless Steel
Top panel:	Sprayed RAL 9006 zinc treated steel sheets or RAL colour or AISI 304 Polished/Brushed Stainless Steel
Central pillar:	Hot zinc treated or stainless steel tube (polished or brushed)
Tripod Arms:	Hot zinc treated or stainless steel tube (polished or brushed), diameter 40 mm

Anti-corrosion treatment

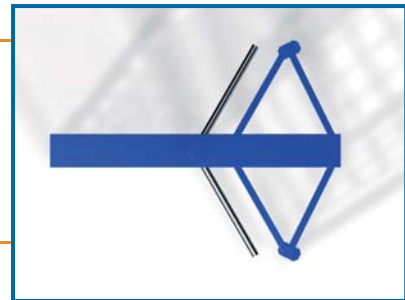
All internal and external mechanism parts has been treated against corrosion by zinc plating, thickness: mechanical parts 10 - 15m, steel sheets 15 - 20m.

Interface

The turnstile is controlled via the MLU 4V2 microprocessor logic unit. The standard features are as follows:

- One input for opening/closing the mechanism in each direction
- One protected input for unlocking of the turnstile in the event of an emergency
- Two multi-functional inputs ready for future purposes
- One output indicating actual status of the turnstile (BUSY signal)
- Four protected outputs for communication with LED Traffic lights
- Two outputs to check completed passage through the turnstile in certain direction
- Adjustable time out facility (range from 6s to 30s) to cancel GO signal if passage through the turnstile is not completed within the time.

The logic unit is protected against overloads, short circuits and polarity inversion.



TECHNICAL PARAMETERS

- Operating temperature: -30°C to +50°C
- Humidity: maximum 80%
- MCBF: 3.000.000 cycles (Mean cycle before failure)

Turnstile with electro-mechanical unit:

- Power supply: 24VAC/DC, 2A (external power source included)
- Shock absorber: Hydraulic adjustable
- Electromagnet: Duty cycle 100%

Turnstile with motorised unit:

- Power supply: 10 to 16VDC
- Power consumption:
- indoor condition: standby 0.1A, typical 2A, peak 3A
- outdoor condition (if outside temperature is below +5°C and thermostat is ON - motor temperature below +15°C): standby 2.1A, typical 3A, peak 5A

Operational modes

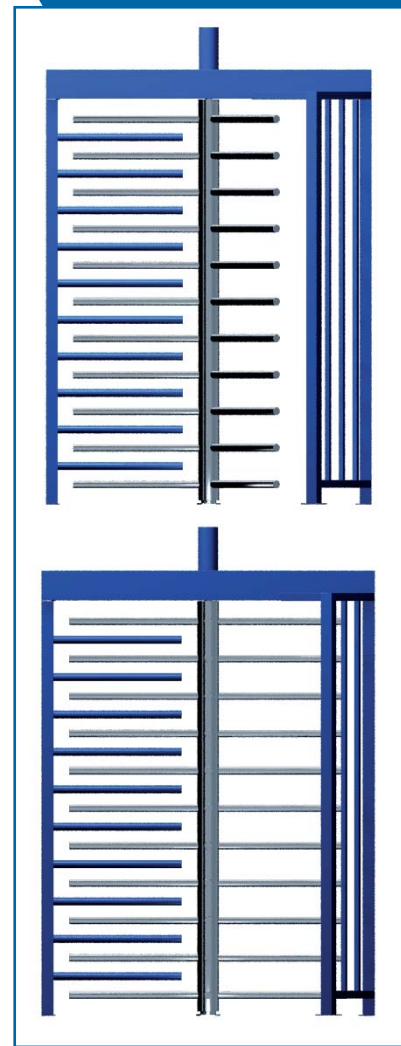
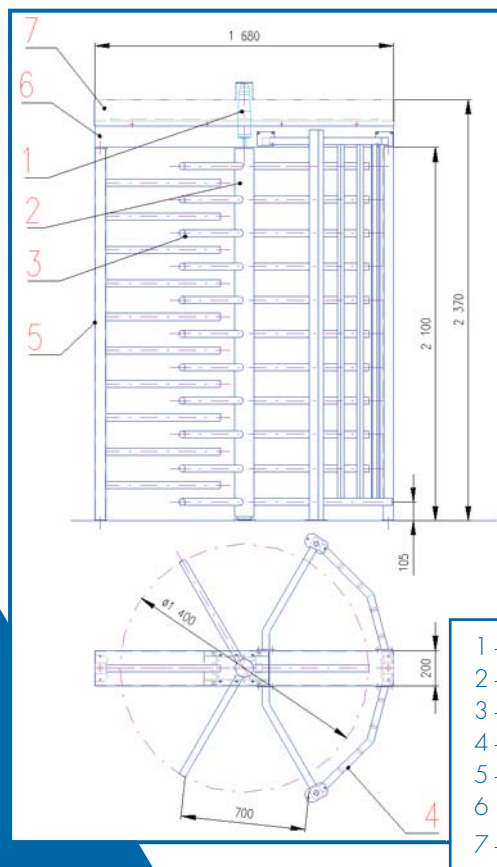
The turnstile can be set for different operational modes in either direction:

- Free access
- Controlled access
- Locked

Emergency

Various modes of operation are available in the event of an emergency or power failure in either direction:

- Free access
- Locked.



ACCESSORIES

LED Traffic Light

- LED lights indicating turnstile availability for use

Push Button Control

- Remote control of the turnstile
- Remote unlocking of the turnstile

Ceiling Lights

- Ceiling lights to illuminate the turnstile

Alternative Materials and Finishes

- Stainless Steel design of all parts
- Custom painted (RAL colours)
- Specific design

Back-up battery

- Back-up battery 12VDC/18Ah maintains turnstile with motorised drive unit for at least 6 hours of continuous operation

Counter

- Mechanical, electro-mechanical or digital counter

Identification systems

- Easy integration and installation of card reader devices: barcode, magnetic card, proximity card, smart card, biometrics, coin/token acceptors.