



Gunnebo Metro Tripod Turnstile

Tripod Turnstile for Public Transport Applications

Metro Tripod Turnstile

The Tripod Turnstile MTR is a **compact and cost-effective** entrance solution designed for smooth and silent operation, less wear and tear and reduced power consumption.

The MTR offers a well-designed, two legged casework made of stainless steel, ideal for sites where **large flows of people and robustness** are issues.

This solution is diverse in design to fit on to any station concourse or compact enough to fit on board buses and trams. Available in a 316 grade stainless version and an outdoor version IP44, 316 stainless steel. A Double version is also available.

In case of emergency, the hub freely rotates for easier exit. A drop arm option is also available which automatically drops the horizontal arm to allow free passage. LED waymode indicators are included as standard.

Technical Specifications

Mode of Operation

Controllable via interface connection to AFC control system. On receiving a signal from the AFC control system, or remote control, the MTR is unlocked. It can also be unlocked by depressing a casework or remote reception push button, if fitted.

This will release the mechanism locking solenoids and render the MTR ready for use by walking through the walkway passage in the desired direction.

Should the passenger decide not to proceed with the passage, the locking solenoid will remain unlocked for a predetermined time after which it will, 'time-out' and reset the unit making it available for the next person.

- Uni-directional
- Bi-directional
- Emergency, configurable to fully open or block the passageway
- Remote passage control
- Traffic way switchable during rush hours
- Passenger stacking



Plain dot indicates the functionality is implemented, empty dot indicates some limitations, no dot indicates not available.

Features

- Passage confirmation
- Optional casework designs
- Ticket reader integration and ticket bins
- Drop arm option to provide clear exit in case of emergency
- Only one housing required per lane

Benefits

- Cost-effective solution
- Small footprint - one housing
- High prevention against tailgating

Applications

- Mass Transit Systems
- Metro
- Railway
- High Speed Railway
- BRT
- Tramway
- Ferry Terminals

Global Experience

- Global No. 1 for Entrance Control Equipment (IMS Research Report 2013)
- More than 50,000 gates installed worldwide
- More than 90 Million people processed daily
- Over 25 years global experience within the Mass Transit market sector
- International and local support infrastructure
- High productivity and quality levels
- Reduced project risks and long-term investment protection

Technical Specifications (continued)

Security Features

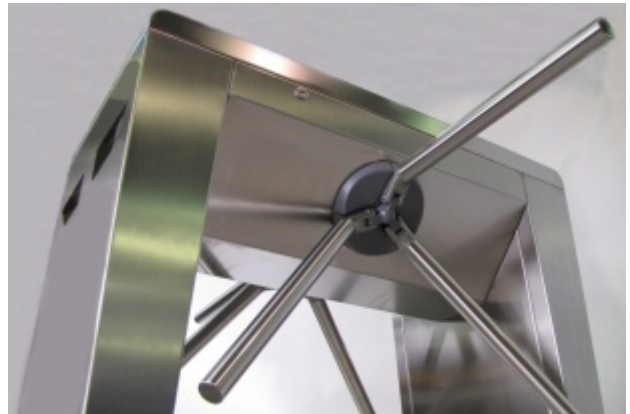
The Hercules electromechanical platform is designed for stadia and mass transit applications. It provides higher efficiency in avoiding the passage of non-authorized users.

- Positive locking action for one passage at a time.
- Self-centring mechanism to ensure complete rotation into the home position.
- Hydraulic damper to ensure smooth operation.
- Anti-backup device to prevent reverse rotation once the mechanism has moved 60° from home.



ATT-ITC Kits (optional)

- ATT (Alarmed Tripod Turnstile): two photocells in order to recognise the attempts of passing through the barrier without authorisation.
- ITC (Improper Transit Control alarm system): ITC system is able to sense and sound alarm in case of simulated passage, when a user, once permitted to pass, rotates the tripod manually, without passing. That system uses two photocells in addition to the other two of the ATT kit.



Operating Modes

The MTR is bi-directional. The two directions can be separately configured as follows:

- Unlock mode: passage is authorised for all users in the desired direction
- Lock mode: passage is inhibited in the desired direction
- Reader control mode: the passage is possible only for those users who are recognised by a ticket/badge

Design Construction

- Standard passage way (550 mm)
- The MTR offers great flexibility in design for best integration of AFC devices

Materials

- Casework: 304 Grade Stainless Steel
- Casework Lid: 304 Grade Stainless Steel
- Tripod Hub Hercules: Cast Aluminium with painted grey finish
- Tripod Arms: 38 mm Dia. 480 mm 304 Grade Satin polished stainless steel with welded end caps

Dimensions

- Height: 950 mm
- Length: 1004 mm
- Width: 270 mm

Gate End Displays

- On each access of the gate there are traffic lights for passenger's reference (Red Cross and Green Arrow indications)

Power Failure / Fire Alarm

- Either one or both directions can be fail-safe (standard), i.e. rotates freely, or fail lock, i.e. locks in the home position free voltage contact to effect fail state. Mechanism fail state will be the same as power failure choice.
- Drop arm option: the horizontal on Fire alarm - emergency input. Input facility available, arm drops to create a clear passage for evacuation.

Technical Data

Properties	Values / Description
Power Supply	230 VAC 50Hz or 115 VAC 60Hz
Power Rating	50 VA (standby 5 VA if Normally Open)
Fire Signal	Input for voltage free contact
Operating Temperature	0 to + 45°C (RH 95% not condensing); -20°C with heating system (optional)
Reliability Figures	Robust design to withstand high volumes in peak hours Guaranteed long-term investment protection and profitability Low running costs:<1%/pa of installation base (Based upon actual 12 month field survey data)
MCBF	10,000,000 cycles
MTTR	<30 min
IP Rating	IP 20
Flow Rates	Up to 45 passengers/minute throughput (Dependent upon reading technology and response times) Authorisation stacking up to 6 authorisations

Customer References

Metro Systems

- Shanghai Metro L1 to L5, China
- Metro Medellin, Colombia
- Toulouse Metro, France
- MTRC, Hong Kong
- Naples Metro, Italy
- SBME Milan Metro, Italy
- Metro Panama City, Panama
- Adana Metro, Turkey
- Bursa Railways, Turkey
- West Virginia University, U.S.A.

BRT Systems

- LianYunGang BRT, China
- Megabus Pereira, Colombia
- Mio Cali, Colombia
- Transmilenio Bogota, Colombia
- Tegucigalpa BRT, Honduras
- Transjakarta Busway, Indonesia
- Metrobus Insurgentes, Mexico
- Metrobus - Linea 1, Mexico
- Metrobus - Linea 2, Mexico
- Metrobus - Linea 5, Mexico
- SIT Leon, Mexico
- Caracas BRT, Venezuela

Ferry Stations

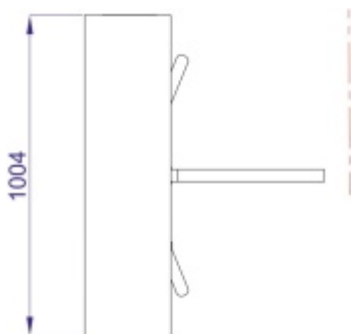
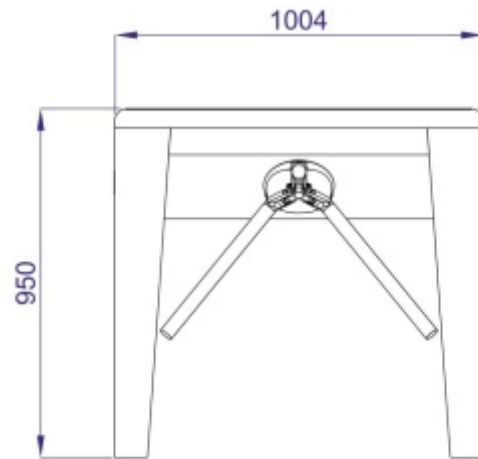
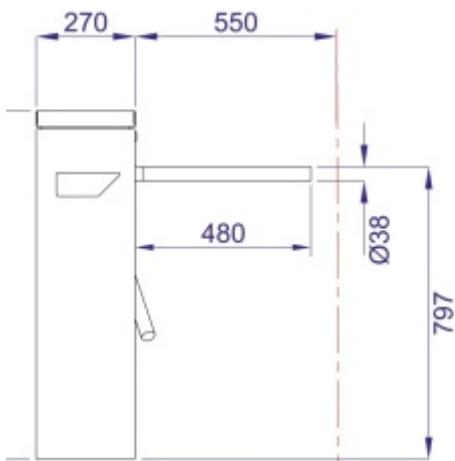
- Transtejo Ferry, Portugal

Site Preparation

- Product delivered fully assembled and may require lifting equipment. Approx weight: 50 Kg
- Double version 95 Kg (For installation details, please refer to the proper installation layout drawings)
- Any horizontal pipe or conduit running below the MTR must be at least 140 mm below FFL
- Metal conduit for cables should be raised at least 50 mm from foundation
- It is the customer's responsibility to ensure the structural integrity and strength of the installation location
- The dimensions given in this Product Data Sheet are for information only. In order to prepare the installation site, please refer to your usual Gunnebo Customer Service contact



MTR with ATT - ITC system



Gunnebo Metro Tripod Turnstile



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