

RotaSec MD

MD Range – External Full Height Security Turnstile

Rotor Elements: MD90 4N^o
MD120 3N^o

Drive: Hand operated

Orientation: Pass Left or Pass right

Materials: Turnstile Frame: Box and round hollow section steel corrosion protected by a hot zinc spray coating under a final textured polyester powder top coat finished to Gunnebo Mayor RAL colour selection.
Mechanism Cover: GRP (Glass re-inforced plastic)
Canopy: GRP (Glass re-inforced plastic)
Side Cabinets: GRP (Glass re-inforced plastic)
Rotor Assembly: The central rotating column of the rotor assembly is of mild steel cylindrical section to which are welded straight tubular rotor bars. The rotor assembly as standard is hot zinc sprayed with a white polyester powder coated finish.



Standard Colours: Red - RAL 3003, Blue - RAL 5013, Blue - RAL 5010, Green - RAL 6005, Black - RAL 9005, White - RAL 9010, Grey - RAL 7004 and Grey - RAL 7024.

GRP mechanism cover, canopy and side cabinets are available in the same range of colours

Function: Passage in both directions, electronically controllable.

Head Mechanism: Control of the RotaSec operation is achieved by an Electro-mechanical head mechanism. It comprises:

- A positive action lock which prevents two passages at one time
- A Self centering mechanism to ensure complete rotation of the head to the reset position.
- An anti backup device prevents reverse rotation once the head has moved 30^o from its rest position.

Power Failure: In the event of an emergency or isolation of power supply, unit may be configured to fail-safe i.e. rotor freely rotates or fail-lock i.e. rotor locks. Either option is available in both or one direction. Choice must be denoted at time of order placement.

Fire Alarm - Input facility available for voltage free contact supplied by others to effect fail safe.

Note - Head mechanism fail state will be the same as power failure choice.

Interface: Potential-free contact provided by either a cardreader or pushbutton input. Cardreader inhibit and reset output signals available as standard.

Unit has an adjustable time out facility if required i.e. Go signal will be cancelled if passage through turnstile is not completed within pre-set time i.e. 5-30 secs.

Servicing: Via hatches in the walkway ceiling or from overhead

Power Supply: 115/230 Volts AC 5/60 Hz

Power Rating: 100VA (with Walkway downlights 140 VA)

Logic Voltage: 24 Volt DC

Installation Details: RotaSec models are delivered as a partly assembled kit of parts, which may require lifting gear for off loading.

Product Description

A Full height security turnstile available in many configurations. It offers robust trouble-free operation for external installations.

The RotaSec range is available with a 90^o rotor or a 120^o rotor for increased ease of use.

Users include

- Government
- Retail
- Telecommunications
- Information Technology
- Transport
- Petrochemical
- Pharmaceutical



Approx. weight 400Kg depending on specification

Models Available

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- MD90/MD120 Basic Frame with free standing painted mild steel pedestals, one for each side of the turnstile for pushbutton / cardreader mounting.
- MD90F/MD120R Full Side Frame with full canopy, two flush mounted walkway downlights continuously illuminated and a concealed rain water down pipe.
- MD90S/MD120S Full Side Frame with full canopy, two flush mounted walkway downlights continuously illuminated, a concealed rain water down pipe and two full height GRP side cabinets incorporating 25mm dia Red and Green Status lights protruding 20mm positioned at approx. eye level.
The Red LED status light is continuously illuminated until a go signal is received from the controller (not from card reader), when the Green LED status light illuminates indicating available for use.

Accessories and Optional Extras

Alternative Materials and Finishes

- Rotor with 316 satin polished stainless steel (EN10088-2 Grade 1K/2K) straight arms welded to a black finished mild steel rotor column.
- Rotor with 316 satin polished stainless steel (EN10088-2 Grade 1K/2K) trombone arms welded to a black finished mild steel rotor column.
- Rotor with mild steel powder coated trombone arms welded to a mild steel rotor column, standard finish white.
- Unpainted frames (rotor painted white)
- Alternative paint finishes are available.

Intermeshed (Refer to Gunnebo Mayor for details)

- In areas of restrictive space a reduced width double RotaSec MD can be supplied having intermeshed rotors.

Card Reader Mounting

- Mounting plates to specific design.
- 160mm x 160mm plain stainless steel mounting plates (Available upon request free of charge)

Pushbutton Control

- Framework Mounted Pushbutton
- Simple remote console to house RotaSec M pushbutton overrides.
- Remote console to specific requirements.

Battery Backup System

- Maintains all 24 volts control facilities for 500 operations or 4 hours whichever the sooner.

Lights

- Red and Green Status lights, (per direction/ per walkway). Flush mounted within the turnstile upright positioned at approx. eye level. The red LED status light is continuously illuminated until a go signal is received from the Electro-mechanical head mechanism, not a go signal from cardreader, when the green status light illuminates indicating available for use.
NB Status lights are included in the S models as standard.
- Surface mounted downlights, for the Basic and F models only.

Mechanism Options

- Hydraulic damping to give smooth operation.
- Mechanical Operation. No power required. Freewheel in one direction only, reverse direction locked.

Sub Floor Mounting

- Fixing of turnstile below finished floor level. The turnstile is to be secured to the structural slab which is 100mm below finished floor level thus concealing fixing bolts. The making good to finished floor level is by others.

Installation Examples



Flow Rates

Reader Device	Number per minute
Insertion type	12
Insertion type with PIN code keypad	7.5
Swipe type	15
Swipe type with PIN code keypad	8.5
Proximity 'Hands Free'	17

- Please note the figures are approximate and must be confirmed with Gunnebo Mayor Ltd. Figures quoted are for one person per complete passage per walkway and per minute. It is assumed the access control authorisation response is instantaneous. Flow rates will increase with multiple passage use.

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Note: In pursuit of its policy of continuous refinement and improvement, Gunnebo Mayor Ltd. reserves the right to modify design and details.

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