

RotaSec

BA | EV



PRODUCT DATA

RotaSec

Full-Height Turnstile for external installation

Hand-operated electromechanical head, silent and smooth rotation

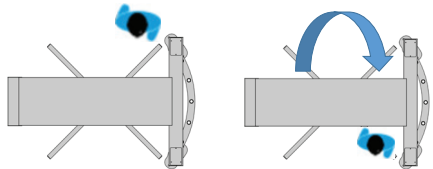
Innovative as flexible concept design. Aesthetic and robust design available with three (120°) or four (90°) rotor elements, delivered fully assembled or in a kit form. The range includes both the BA (basic) frame and the EV (evolution) full side frame versions in painted or stainless steel finish, alongside customisation and options.

Applications include Petrochemical, Construction Sites, Stadia, Ports & Harbours, Government Buildings, Embassies.....



RotaSec_BA_EV_1.1_EN

MODE OF OPERATION

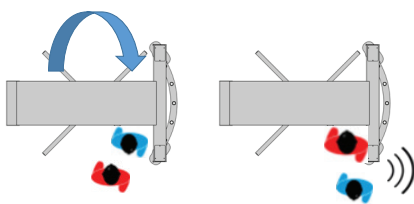
Passage in one or both directions electronically controlled. On receiving a signal from the access control system or remote control, the mechanism unlocks and the arms can be pushed to pass through the gate in the authorised direction. It prevents two passages at one time, and if an unauthorised person attempts to enter from the opposite direction, the in-built locking mechanism stops any attempt to reverse the rotation.



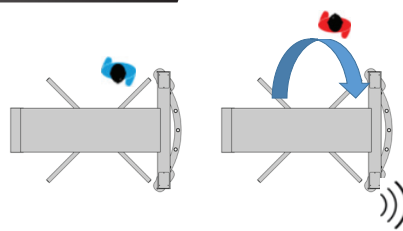
The pictogram and traffic lights LED symbols, optional on request, indicate the status of the gate.

Normal Use (steady)	Alarm Conditions (flashing)
 <p>Green arrow Authorised use or designated free passage Proceed through the unit.</p>	<p>Emergency / Fire exit (be aware that it is not suitable for escape routes and rescue routes)</p>
 <p>Red cross (Unit in use or no passage) Passage not authorised</p>	<p>Alarm, fraudulent condition or technical alarm</p>

SECURITY FEATURES



Wrong way direction / intrusion attempt



Optional, Improper Transit Confirmation (ITC) / rotation without passage, fraud attempt, sensor for passage detection

Fraud Detection through proven algorithm

- Leave aisle timeout
- ITC (option)
- Anti-crawling barrier
- Anti-pass back barrier
- Anti-reverse rotation during transit
- Self-centring to reset position
- Action lock preventing two passages at one time



SAFETY FEATURES

- Manually operated arms
- Anti-heel safety rubber, for Interlocking 90° version
- Logic voltage 24 Vac
- Voltage free contact input for Fire Alarm fail state
- Anti-pinching design construction
- Fail-Safe (default) i.e. rotor freely rotates in power off scenario (Fail-Lock available on request)

For security and safety reasons children must be supervised by an adult at all times in the vicinity of an active lane. Any child being escorted through the lane must always precede the accompanying adult during passage.

DESIGN / CONSTRUCTION

Available versions are the **BA** simple side frame, and the **EV** full side frame construction

Available as:

Single 120 or 90 degree
Double Interlocking rotor 120 or 90 degree

The interlocking version provides a compact two-lane layout. **120 rotor** passage way 692mm (ready opening min. 761) and **90 rotor** passage 692mm (ready opening min. 547). Passage height 2100mm.

An optional 50mm diameter LED display pictogram with illuminated symbols integrated into the reader box is available



Green Arrow



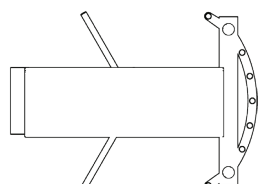
Red Cross



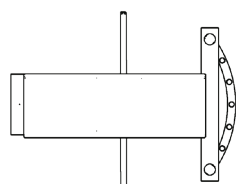
Green Card

An optional base plate with rubber matt and a canopy option are available for both kit-form or fully assembled versions.

BA side frame

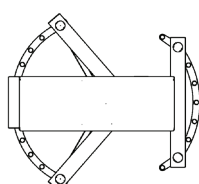


Single 120

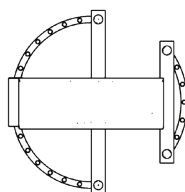


Single 90

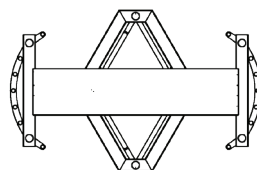
EV side frame



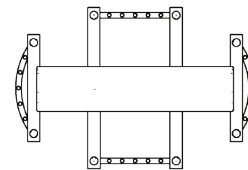
Single 120



Single 90



Double Interlocking 120



Double Interlocking 90

In order to create a lane it is necessary to use one Single unit. Additional lanes are obtained by using more Single lanes next to each other. Two lanes are built-in for the Interlocking version for a reduced footprint.

FINISHES

BA and **EV** versions share the same innovative rotor in 304 stainless steel, push bars 38mm diameter. **BA** and **EV** are available in painted and stainless steel finishes. Canopy (option) in aluminium frame and transparent or solid polycarbonate infill with stainless steel interface to connect to the main structure.

Standard finishes further comprise:

Standard finish

- Rotor
- Frame

BA and EV

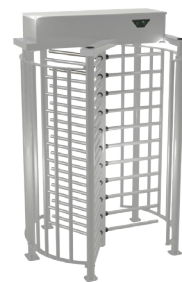
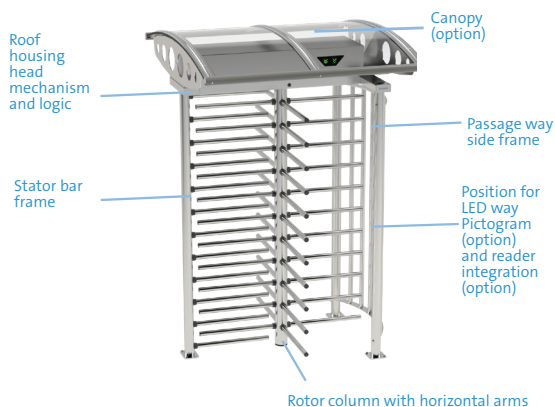
stainless steel 304 grade, (316 option)

corrosion-protection painted grey or stainless steel 304 (316 option)

RotaSec BA 90 stainless steel finish with canopy shown

RotaSec Double Interlocking 120 shown

RotaSec EV 120 Single shown



Gunnebo Standard colours

- Corrosion protection, electrophoresis plus powder painted grey RAL 7004
- Any RAL is available on request



OPTIONS & ACCESSORIES

- Alternative finishes and materials
- Fully assembled or kit form
- Pictogram
- Damped head mechanism
- Canopy (aluminium frame)
- Down light
- Status light
- Card reader integration
- Remote control systems
- Smooth and silent damping mechanism
- Improper Transit Control (ITC)
- Heating kit -10°C
- Base Plate

ACCESS SPECIFICATIONS

FULL-HEIGHT TURNSTILE

Flow rates by type of Reader (1)			Disabled Access	Emergency Egress
Insertion Type	Swipe	Proximity		
12 PASSAGES / MN	15 PASSAGES / MN	17 PASSAGES / MN	N/A	● (2)

- (1) Approximate figures.
- (2) Free rotation on fire alarm signal. In a power off scenario, not available if requested as Fail-Lock.

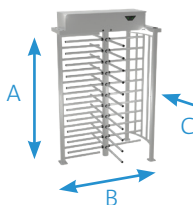
ELECTRICAL DATA & CONDITIONS OF USE

Power Supply	Power Rating (2)		Battery Back-up	Fire Signal	Operating Temperature	IP Rating	Noise Level
230VAC 50HZ(1)	50VA Single	50+50VA Double Interlocking	N/A	INPUT FOR VOLTAGE FREE CONTACT	-5°C TO + 50°C RH 95% NO CONDENSING	IP44	LESS THAN 55dB(3)

- (1) 115Vac 60Hz also available
- (2) Additional 40VA per lane with optional down lights
- (3) Note: Average background noise in office environment is 50-55dB

DIMENSIONS & WEIGHTS

	Passage Height	Passage Width Entry (middle)	A Cabinet Height ⁽¹⁾	B Cabinet Length ⁽²⁾	C Cabinet Width ⁽³⁾	Weight (kg) ⁽⁴⁾
Single Lane 120 BA	2100	761 (692)	2393	1603	1157	243
Single Lane 90 BA	2100	559 (692)	2393	1603	1317	249
Single Lane 120 EV	2100	799 (692)	2393	1603	1492	359
Single Lane 90 EV	2100	547 (692)	2393	1603	1654	379
Double Interlocking Lane 120	2100	2 x 850 (692)	2393	2442	1576	452
Double Interlocking Lane 90	2100	2 x 547 (692)	2393	2442	1654	577



- (1) 2515mm with Canopy Option. An additional 8mm must be considered with Base Plate option
 - (2) 1645mm with Canopy Option for Single unit, 2488mm with Canopy option for Double Interlocking unit
 - (3) 1855mm with Canopy Option
 - (4) For Single unit, add 105kg for Base Plate and 61kg for Canopy options. For Double interlocking unit, add 257kg for Base Plate and 80kg for Canopy option.
- dimensions in (mm), weight net (kg) might require lifting equipment.
For details refer to installation detail drawings

INSTALLATION & MAINTENANCE

Product Delivery	Application	Site Preparation (1)	Cabling & Conduits (2)	Control Board Location	Systems Integration(5)		Maintenance Access	MTTR(3)	MCBF(4)
KIT FORM (FULLY ASSEMBLED AS OPTION)	OUTDOOR	FLAT & LEVEL FINISHED FLOOR +/- 5mm	THROUGH THE GROUND	IN THE ROOF	12 DIGITAL INTERFACE I/O RS485	SETTINGS PROGRAMMABLE VIA TRIMMERS	THROUGH THE ROOF ACCESSIBLE FROM THE PASSAGE WAY	LESS THAN 30 MINUTES	3 MILLION

- (1) Bolting depth MIN 100mm, concrete MIN fckcube30N/mm2 resistance, MIN 1800x 1800 (2400 for interlocking) x 150mm deep
- (2) Running MIN 140mm below finished floor level, should rise MIN 50mm from foundation
- (3) Mean time To Repair
- (4) Mean Cycle Between Failure
- (5) Potential free contact for card reader input. New Electronic Platform with in-built RS485 and COM1 switching interface

It is the customer's responsibility to ensure the structural integrity and strength of the installation location.
Data provided is for information only, please refer to your usual Gunnebo Customer Service contact in order to prepare the installation site.

THE JOURNEY TOWARDS A SAFER WORLD STARTS AT THE ENTRANCE

CONTACT US FOR MORE INFO

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