

# Gunnebo RotaSec<sup>2</sup> BA/EV Series

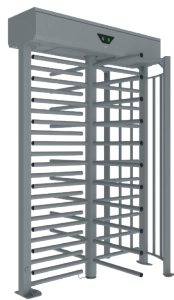
Full-Height Turnstile for  
External Installation

## The Gunnebo RotaSec<sup>2</sup> BA/EV Series

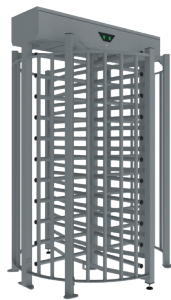
### Hand-operated electromechanical head, silent and smooth rotation

Highly reliable proven design with the ability to prioritise security for user comfort. Aesthetic and robust design available with three (120°) or four (90°) rotor elements, delivered in a kit form. The range includes both the BA (basic) frame and the EV (evolution) full side frame versions in galvanised, powder coated or stainless steel finish.

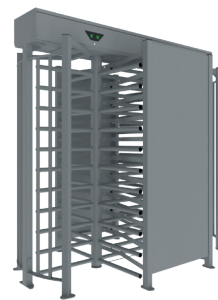
As standard the RotaSec includes LED passageway lighting controlled by an ambient light sensor. Applications include Petrochemical, Construction Sites, Stadia, Ports & Harbours, Government Buildings, Embassies...



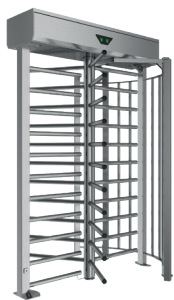
RotaSec<sup>2</sup> 90 BA Single



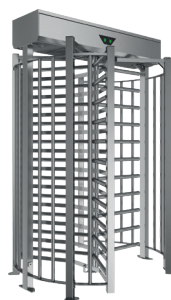
RotaSec<sup>2</sup> 90 EV Single



RotaSec<sup>2</sup> 90 EV Double



RotaSec<sup>2</sup> 120 BA Single



RotaSec<sup>2</sup> 120 EV Single



RotaSec<sup>2</sup> 120 EV Double

### Finishes

The RotaSec 90 range are shown in powder coated finish.

The RotaSec 120 range are shown in stainless steel finish.

## Technical specifications

### Security features

#### Fraud Detection through sophisticated and proven algorithm

Leave aisle timeout

ITC (option)

Anti-crawling barrier

Anti-pass back barrier

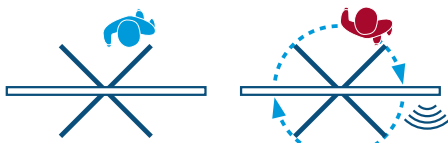
Anti-reverse rotation during transit

Self-centring to reset position

Action lock preventing two passages at one time

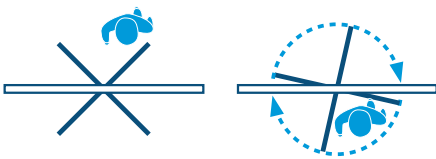
#### Improper Transit Control (ITC) - optional

Improper Transit Control is used to ensure that the user passes through the RotaSec after they have validated. The RotaSec will raise an alarm when an authorisation is received, the rotor is rotated, but there is no passage performed.



Improper Transit Control (ITC)

### 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.

#### Illuminated symbols

The included traffic light LEDs indicate the status of the RotaSec.



##### Green Arrow

**Steady:** Authorised use or designated free passage. Proceed through the unit.

**Flashing:** Emergency/Fire exit. (Not suitable for escape or rescue routes).

##### Red Cross

**Steady:** Unit in use or no passage. Passage not authorised.

**Flashing:** Alarm, fraudulent condition or technical alarm.

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



### 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.

## Technical specifications

### Options & accessories

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

### Design/construction

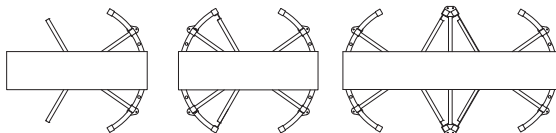
Available versions are the BA simple side frame, and the EV full side frame construction. Available as:

**Single:** 120° or 90°

**Double Interlocking rotor:** 120° or 90°

Main uprights - 60 x 60mm box section allowing easy surface mounting of readers. 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.

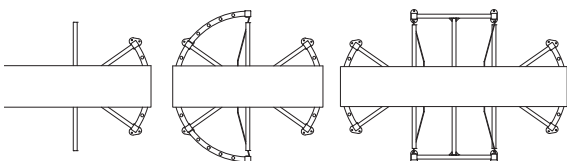
In order to create a lane it is necessary to use one Single unit. Additional lanes are obtained by using more Single lanes next to each other. Two lanes are built-in for the Interlocking version for a reduced footprint.



120 BS Single

120 EV Single

120 EV Double



90 BA Single

90 EV Single

90 EV Double

### Finishes

#### Standard Finishes

**Rotor:** Galvanised Steel

**Casework:** Galvanised Steel

**Top Channel:** Galvanised Steel, Powder coated RAL 7040

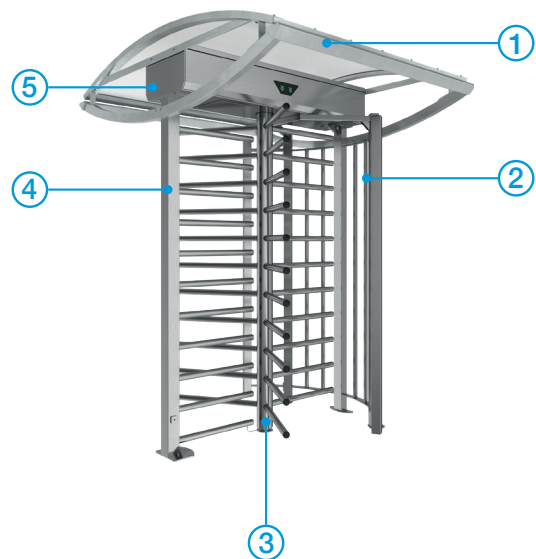
#### Optional Upgrades

**Rotor:** Galvanised Steel, Powder coated RAL 7040, Stainless Steel 304, Stainless Steel 316

**Casework:** Galvanised Steel, Powder coated RAL 7040, Stainless Steel 304, Stainless Steel 316

**Top Channel:** Stainless Steel 304, Stainless Steel 316

Alternative colours available for powder coated finish upon request.



1. Canopy (option)
2. Passage way side frame
3. Rotor column with horizontal arms.
4. Stator bar frame
5. Roof housing head mechanism and logic

## Technical specifications

### Access specifications

#### Flow rates by type of reader<sup>1</sup>

Insertion type	Swipe type	Proximity type
12 Passage per minute	15 Passages per minute	17 Passages per minute

1. Approximate figures

#### Emergency egress functionality implemented as standard.

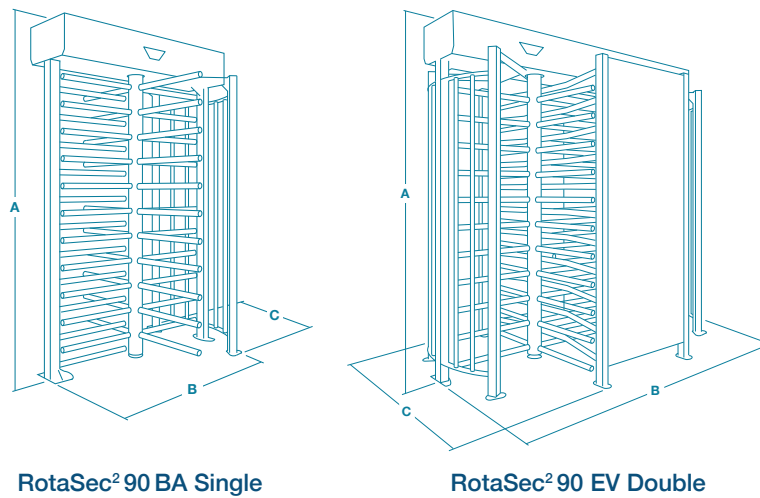
Free rotation on fire alarm signal. In a power off scenario, not available if requested as Fail-Lock.

### Electrical data and Conditions of use

Power Supply	230Vac 50Hz <sup>1</sup>
Power Rating <sup>2</sup>	50VA Single
Power Rating <sup>2</sup>	50+50VA Double Interlocking
Battery Back-up	N/A
Fire Signal	Input for voltage free contact
Operating Temperature	-5°C to +50°C RH 95% No condensing
IP Rating	IP44
Noise Level	Less than 55dB <sup>3</sup>

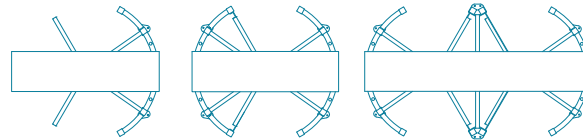
1. 115Vac 60Hz also available on demand. 2. Additional 40VA per lane with optional down lights.  
3. Note: Average background noise in office environment is 50-55dB

## Site preparation



RotaSec² 90 BA Single

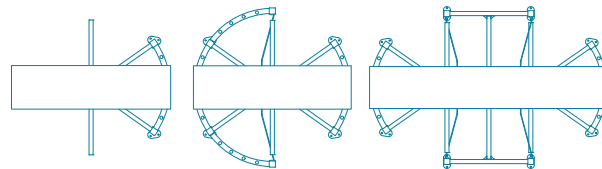
RotaSec² 90 EV Double



RotaSec² 120 BA  
Single

RotaSec² 120 EV  
Single

RotaSec² 120 EV  
Double



RotaSec² 90 BA  
Single

RotaSec² 90 EV  
Single

RotaSec² 90 EV  
Double

## Dimensions and weight

	Passage height	Passage width entry (middle)	A Cabinet height <sup>1</sup>	B Cabinet length <sup>2</sup>	C Cabinet width <sup>3</sup>	Weight (kg)
Single Lane 120 BA	2100	582	2360	1540	1365	238
Single Lane 90 BA	2100	546	2360	1540	1300	227
Single Lane 120 EV	2100	582	2360	1540	1365	313
Single Lane 90 EV	2100	536	2360	1540	1540	323
Double interlocking Lane 120	2100	2 x 582	2360	2380	1365	504
Double interlocking Lane 90	2100	2 x 546	2360	2380	1540	531

Dimensions in (mm). Weight net (kg). Might require lifting equipment. For details refer to installation detail drawings.

1. 2470mm with Canopy Option. 2. 1910mm with Canopy Option 3. 1640mm for single and 2480mm for double with Canopy Option.

Installation and maintenance table – updated MCBF to 5 million

## Site preparation

## Installation & maintenance

Product Delivery	Application	Site Preparation <sup>1</sup>	Cabling & Conduits <sup>2</sup>	Control Board Location	Systems Integration <sup>5</sup>	Systems Integration <sup>5</sup>	Maintenance Access	MTTR <sup>3</sup>	MCBF <sup>4</sup>
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 parameters	Through the roof accessible from the passage way	Less than 30 minutes	5 million

1. Bolting depth MIN 100mm, concrete MIN fckcube30N/mm<sup>2</sup> resistance, MIN 1800 x 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.

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