RotaSec

BA | EV

www.gunneboentrancesecurity.com

PRODUCT DATA

GUNNEBO®
For a safer world

RotaSec

Full-Height Turnstile for external installation

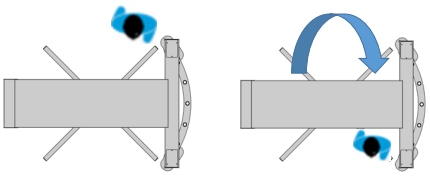
Hand-operated electromechanical head, silent and smooth rotation

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 customization and options.

Applications include Production Facilities, Storage Facilities, Construction Sites, Stadiums, Ports & Harbors, Government Buildings, Embassies...

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 authorized direction. It prevents two passages at one time, and if an unauthorized person attempts to enter from the opposite direction, the in-built locking mechanism stops any attempt to reverse the rotation.

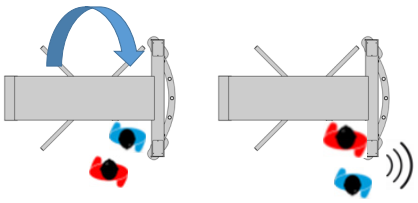


Authorized Passage

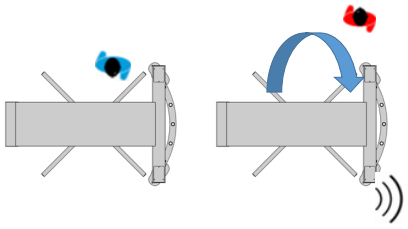
The pictogram and traffic lights LED symbols, optional on request, indicate the status of the gate.

	Normal Use *(steady)*	*Alarm Conditions* *(flashing)*
	*Green Arrow* *Authorised use or designated free passage Proceed through the unit.*	*Emergency / Fire Exit (be aware that it is not suitable for escape routes and rescue routes)*
	*Red Cross* *(Unit in use or no passage) Passage not authorized*	*Alarm, fraudulent condition or technical alarm*

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 (optional)*
- *Anti-crawling barrier*
- *Anti-pass back barrier*
- *Anti-reverse rotation during transit*
- *Self-centering 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 27.2" (ready opening min. 30.0") and
90 rotor passage 27.2" (ready opening min. 21.5").
Passage height 82.7".

An optional 2.0" diameter LED display pictogram with illuminated symbols integrated into the reader box is available.

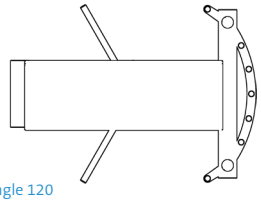

Green Arrow

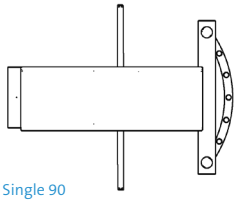

Red Cross


Green Card

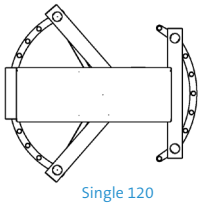
An optional base plate with rubber mat and a canopy option are available for both kit-form or fully assembled versions.

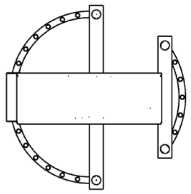
BA side frame

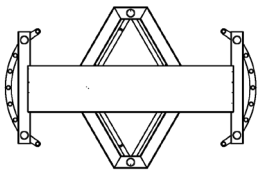

Single 120

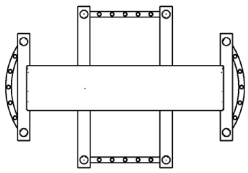

Single 90

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.

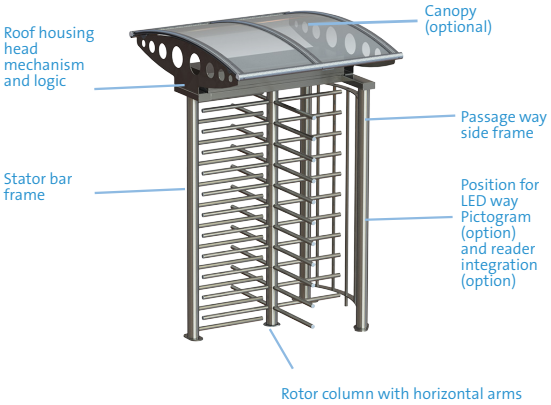
FINISHES

BA and EV versions share the same innovative rotor in 304 stainless steel, push bars 1.5" diameter. BA and EV are available in painted and stainless steel finishes. Canopy (option) in aluminum frame and transparent or solid polycarbonate infill with stainless steel interface to connect to the main structure.
Standard finishes further comprise:

BA and EV Standard finish

- Rotor stainless steel 304 grade, (316 option)
- Frame corrosion-protection painted grey or stainless steel 304 (316 optional)

RotaSec BA 90 stainless steel finish with canopy shown

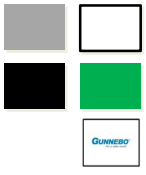


RotaSec Double Interlocking 120 shown

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 (aluminum frame)
- Down light
- Status light
- Card reader integration
- Remote control systems
- Smooth and silent damping mechanism
- Improper Transit Control (ITC)
- Heating kit 14°F
- Base Plate

ACCESS SPECIFICATIONS

Flow rates by type of Reader (1) Insertion Type	Swipe	Proximity	Disabled Access	Emergency Egress
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.

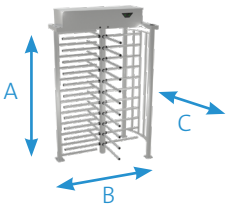
ELECTRICAL DATA & CONDITIONS OF USE

Power Supply	Power Rating (1)		Battery Back-up	Fire Signal	Operating Temperature	IP Rating	Noise Level
115VAC	50VA Single	50+50VA Double Interlocking	N/A	INPUT FOR VOLTAGE FREE CONTACT	23°F TO 122°F RH 95% NO CONDENSING	IP44	LESS THAN 55dB(3)

(1) 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 (lbs)(4)
Single Lane 120 BA	82.7"	30.0" (27.2")	94.2"	63.1"	45.6"	535.7
Single Lane 90 BA	82.7"	22.0" (27.2")	94.2"	63.1"	51.9"	549.0
Single Lane 120 EV	82.7"	31.5" (27.2")	94.2"	63.1"	58.7"	791.5
Single Lane 90 EV	82.7"	21.5" (27.2")	94.2"	63.1"	65.1"	835.6
Double Interlocking Lane 120	82.7"	2 x 33.5" (27.2")	94.2"	96.1"	62.0"	996.5
Double Interlocking Lane 90	82.7"	2 x 21.5" (27.2")	94.2"	96.1"	65.1"	1272.1



(1) 103.1" with Canopy Option. An additional 0.3" must be considered with Base Plate option
(2) 64.8" with Canopy Option for Single unit, 98.0" with Canopy option for Double Interlocking unit
(3) 73.0" with Canopy Option
(4) For Single unit, add 231.5 lbs for Base Plate and 134.5 lbs for Canopy options. For Double interlocking unit, add 566.6 lbs for Base Plate and 176.4 lbs for Canopy option.

Dimensions in (inches), weight net (lbs) 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 +/- 0.2"	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 3.9", concrete MIN fckcube30N/mm2 resistance, MIN 70.9"x 70.9" (94.5" for interlocking) x 5.9" deep
(2) Running MIN 5.5" below finished floor level, should rise MIN 2.0" 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 COMR1 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.

CONTACT US FOR MORE INFO

Gunnebo Entrance Control Inc.
535 Getty Ct., Benicia, CA 94510

Tel. 513-666-4821
Email. info@gunnebo.us
Web. www.gunnebontrancesecurity.com

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