



National Protective
Security Authority



Gunnebo RotaSec HS90SC(N)

Turnstile is approved for Government Use

Internal / External Full-Height High Security Turnstile

The RotaSec HS90SC

Full-Height Turnstile for Internal or External Installation

Hand-operated electromechanical head, silent and smooth rotation

Single 90° left or right handed entry configuration, 4N° rotor elements. Electro-mechanical head mechanism, comprising:

- Positive action lock which prevents two passages at one time.
- Self centring mechanism to ensure complete rotation of the head to the reset position.
- Anti-backup device preventing reverse rotation once the head has moved past 30° from its rest position.

Applications include Petrochemical, Civil Nuclear, Pharmaceuticals, Government Buildings, Energy, Data and Telecommunications, Finance, Defence, Emergency Services and Critical Infrastructure.

Security features

Anti-reverse rotation during transit

Self-centring to reset position)

Action lock preventing two passages at one time

Mode of Operation

Passage in 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.

Status lights



The status lights indicate the availability of the gate for use and are included as standard.

Green Light

Authorised use. Proceed through the unit.

Red Light

Unit in use or no passage. Passage not authorised.



Security Compliancy

NPSA - approved for Government use

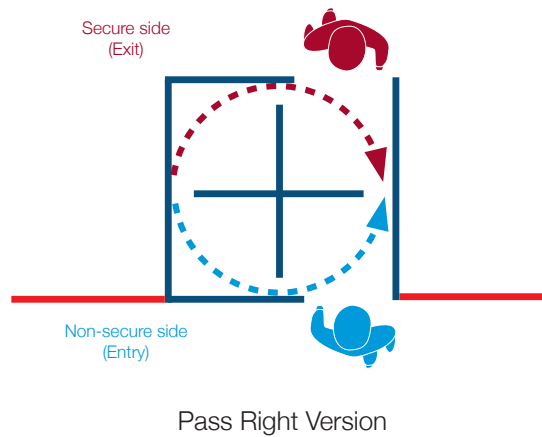
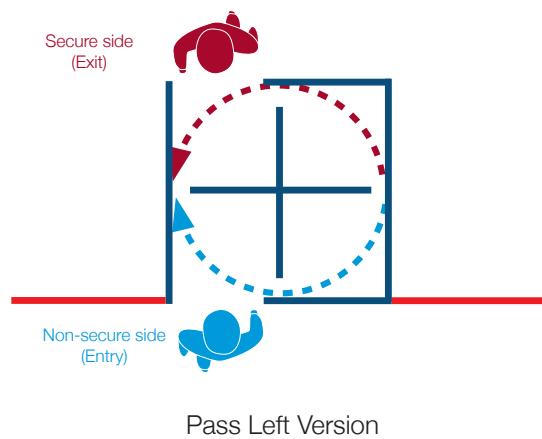
Designed and proven to withstand a considerable degree of physical attack.



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Fence Line Compliance

In order that the Rotasec HS90SC is compliant it is imperative that the fence line remains in the location indicated in this illustration, indicated by the red line.



Technical specifications

Safety features

Manually operated arms

Visibility unimpeded allowing clear view through rotor

Logic voltage 24 VDC

Voltage-free contact input for Fire Alarm fail state

Anti-pinching design construction

Design/construction

Available as:

Single rotor: 90°

Rotor Assembly: A mild steel trombone rotor hot zinc sprayed with polyester powder coated finish.

Turnstile Frame: Mild steel box and round hollow section with additional infill bars in critical areas to reduce gaps.

A bespoke, bottom-bearing design ensures the rotor cannot be forced off the bearing plate to gain unauthorised entry.

An LED downlight installed in the roof illuminates passage through the turnstile.

Finishes

Frame: Mild steel, hot dip galvanized under a final textured polyester powder top coat.

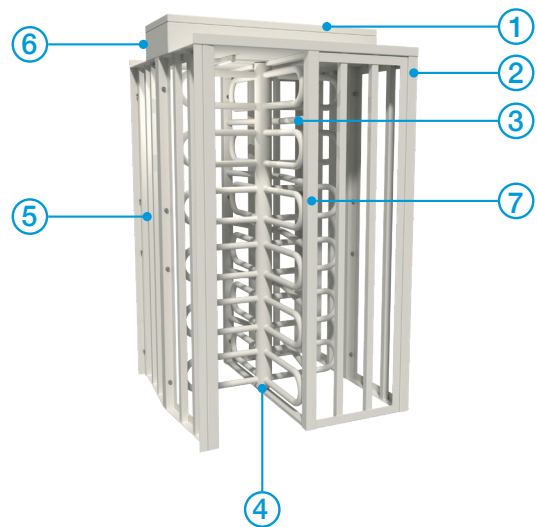
Roof: Stainless steel under a final textured polyester top coat.

Mechanism Cover: Two part, stainless steel construction, polyester powder coated to match above, secured with security fixings.



Frame, roof and mechanism cover can be finished to Standard Gunnebo RAL colour selection: Grey - RAL 7004, White – RAL 9010, Green - RAL 6005, Black – RAL 9005, Blue - RAL 5013.

Rotor Assembly: 304 stainless steel construction with bead blasted natural finish.



1. Service hatch
2. Reinforced side frames
3. Stator bars
4. Rotor column with trombone arms
5. Reinforced walkway guide
6. Housing for head mechanism and logic
7. Reader position if using

Technical specifications

Options and Accessories

Alternative RAL colours available

Fully assembled or kit form

Damped head mechanism

Card reader integration

Polyester powder coated rotor assembly

LCM02 logic control assembly

Access specifications

Flow rates by type of reader¹

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

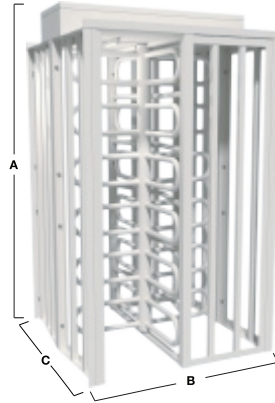
1. Approximate figures

Electrical Data & Conditions of Use

Power supply	Power rating ²	Fire signal	Operating temperature	IP Rating
230Vac 50Hz ¹	100VA	Input for voltage free contact	-5°C to +50°C RH 95% No condensing	Suitable for IPX4 conditions

1. 115Vac 60Hz also available on demand. 2. Additional 40VA with optional down lights.

Technical specifications



Dimensions and weight

	Passage height	Passage width	A Cabinet height ¹	B Cabinet length ²	C Cabinet width ³	Weight (kg) ⁴
HS90SC	2100	582	2200	1270	1276	400

Installation & maintenance

Product Delivery	Application	Site Preparation ¹	Cabling & Conduits ²	Control Board Location	Systems Integration ⁵	Maintenance Access	MTTR ³	Systems Integration ⁵
Kit form (fully assembled as option)	Outdoor	Flat & level finished floor +/- 5mm	Through the ground	In the roof	Settings programmable via parameters	Through the roof accessible from the passage way	Less than 30 minutes	Settings programmable via parameters

1. Bolting depth MIN 100mm, concrete MIN fckcube30N/mm² resistance, MIN 1800 x 1800 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.

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.



Want to see RotaSec HS90SC in full action?
Scan this QR code with your smartphone.

Gunnebo RotaSec HS90SC

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