



LPS 1175: Issue 8  
Cert ref 1660a, 1660b & 1660c Security  
ratings: B3 (SR2), C5 (SR3), D10 (SR4)

# Gunnebo RotaSec HS90L

## LPS Series

Internal / External Full-Height High Security Turnstile

**GUNNEBO®**

## 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:

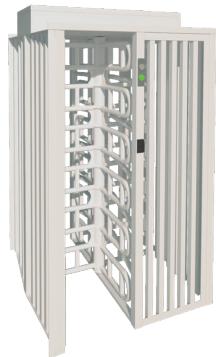
- Positive action lock which prevents two passages at one time.
- Self centring mechanism to ensure complete rotation of the head to the reset position.
- Anti-backup device preventing reverse rotation once the head has moved past 30° from its rest position.



**RotaSec HS90L2**  
Conforms to security rating B3 (SR2)



**RotaSec HS90L3**  
Conforms to security rating C5 (SR3)



**RotaSec HS90L4**  
Conforms to security rating D10 (SR4)

# Technical specifications

## Security features

### Fraud Detection through sophisticated and proven algorithm

Anti-reverse rotation during transit

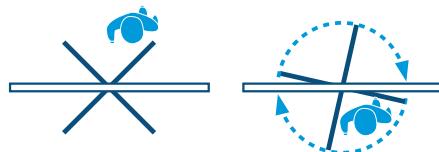
Self-centring to reset position

Action lock preventing two passages at one time

LPS 1175 Issue 8 - B3 (SR2) / C5 (SR3) / D10 (SR4) certified

## 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.

## Applications

Petrochemical

Civil Nuclear

Pharmaceuticals

Government Buildings

Energy

Data & Telecommunications

Finance

Defence

Emergency services

Critical infrastructure

Delay	10 minutes	A10	B10	C10	<b>D10 (SR4)</b>
	5 minutes	A5	B5	<b>C5 (SR3)</b>	D5
	3 minutes	A3	<b>B3 (SR2)</b>	C3	D3
	1 minute	A1	B1	C1	D1
Tool kit	LPS 1175: Issue 8	A	B	C	D

Tool kit A	Tool kit B	Tool kit C	Tool kit D
<ul style="list-style-type: none"> <li>- Adhesive tape</li> <li>- Cable cutter 150mm</li> <li>- Fishing line</li> <li>- Glass cutter</li> <li>- Hexagon wrenches</li> <li>- Hooks</li> <li>- 1 Knife blade 125mm long x 3mm thick</li> <li>- Lever (inc. nail pullers, pry bars &amp; utility bars)</li> <li>- Punches</li> <li>- Screwdriver</li> <li>- Scribe</li> <li>- Selection of spanners</li> <li>- Traction screws</li> <li>- Wire</li> <li>- WD40</li> </ul>	<ul style="list-style-type: none"> <li>Tool kit A+</li> <li>- Bolt cutter 350mm long</li> <li>- Claw hammer 350mm long</li> <li>- Drill bit 6mm diam.</li> <li>- Hand drill</li> <li>- Junior hacksaw</li> <li>- Metal plate shears</li> <li>- Multiple slip joint pliers</li> <li>- Pipe wrench</li> <li>- Pliers</li> <li>- Screwdriver 7mm/14mm diam.</li> </ul>	<ul style="list-style-type: none"> <li>Tool kit A and B +</li> <li>- Axe 350mm long</li> <li>- Brick bolsters 250mm long</li> <li>- Cold chisels 250mm long</li> <li>- Crowbar 700mm long</li> <li>- Cordless drill</li> <li>- Drill bit 10mm diam.</li> <li>- Gas torch</li> <li>- Hacksaw</li> <li>- Hammer 400mm long</li> <li>- Pad saw</li> <li>- Scissor jack</li> <li>- Wood chisels</li> </ul>	<ul style="list-style-type: none"> <li>Tool kit A, B and C +</li> <li>- 'A-tool' lock puller 500mm long</li> <li>- 12V battery</li> <li>- Bolt cutters 500mm long</li> <li>- Drill bits 10mm diam.</li> <li>- Felling / fire axe 900mm long</li> <li>- General purpose saw 750mm</li> <li>- Grinder 12V</li> <li>- Hole saw 50mm diam.</li> <li>- Hooligan bar 760mm long</li> <li>- Jigsaw 12V</li> <li>- 'K-tool' lock remover</li> <li>- Plate shears 300mm long</li> <li>- Sledgehammer 900mm long</li> <li>- Steel wedges</li> </ul>

## Technical specifications

### 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 as:

**Single rotor:** 90°

Rotor Assembly: A mild steel trombone rotor hot zinc sprayed with polyester powder coated finish, filled with armoured material to withstand a prolonged cutting attack.

Reinforced trombone arms with steel ribs to prevent the arms from being forced in the horizontal and vertical directions.

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

Different strengthening features are included on the rotor and the frame depending on the security rating.

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.

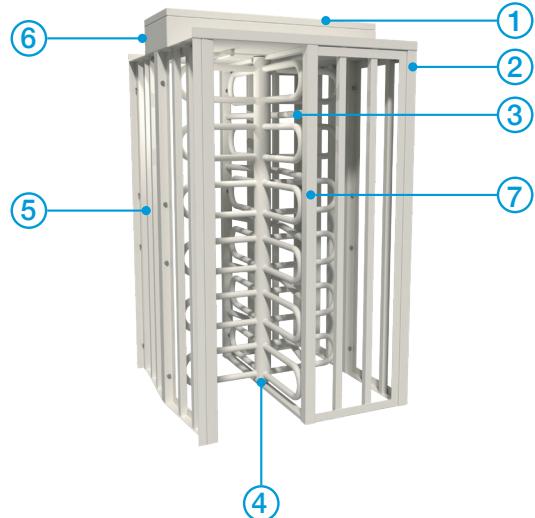
**Roof:** Stainless steel under a final textured polyester top coat.

**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:** mild steel, hot zinc sprayed with polyester powder coated finish: White - RAL 9010.



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. Position for LED way

Pictogram (option) and reader integration (option)

## Technical specifications

### Options and Accessories

Alternative RAL colours available

Fully assembled or kit form

Damped head mechanism

Card reader integration

### 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

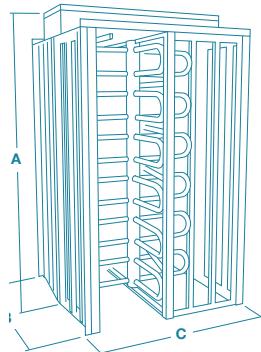
1. Approximate figures

### Electrical Data & Conditions of Use

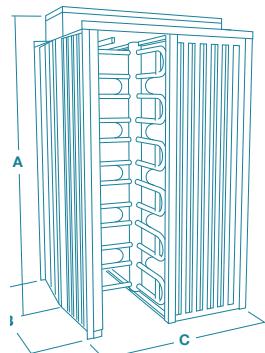
Power supply	Powewr rating <sup>2</sup>	Fire signal	Operating temperature	IP Rating
230Vac 50Hz <sup>1</sup>	100VA	Input for voltage free contact	-5°C to +50°C RH 95% No condensing	Suitable for IPX4 conditions

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

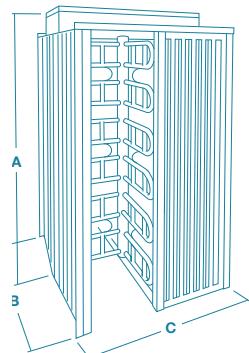
## Site preparation



**RotaSec HS90L2**  
Conforms to security rating B3 (SR2)



**RotaSec HS90L3**  
Conforms to security rating C5 (SR3)



**RotaSec HS90L4**  
Conforms to security rating D10 (SR4)

## Dimensions and weight

	Passage height	Passage width	A Cabinet height <sup>1</sup>	B Cabinet length <sup>2</sup>	C Cabinet width <sup>3</sup>	Weight (kg) <sup>4</sup>
HS90L2	2100	582	2200	1270	1276	400
HS90L3	2100	546	2200	1270	1276	595
HS90L4	2100	582	2200	1270	1276	630

## Installation & maintenance

Product Delivery	Application	Site Preparation <sup>1</sup>	Cabling & Conduits <sup>2</sup>	Control Board Location	Systems Integration <sup>5</sup>	Maintenance Access	MTTR <sup>3</sup>	Systems Integration <sup>5</sup>
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/mm<sup>2</sup> 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.

## Security Certification Compliancy

### LPS certified

The RotaSec HS90L2, L3 and L4 are certified to loss prevention product standards, a globally recognised and trusted benchmark of resistance and unauthorised access for high security environments.

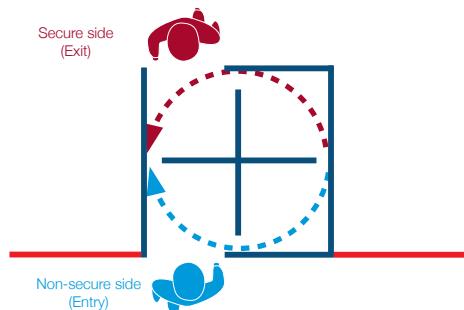
These products have been independently and rigorously tested under strict conditions by BRE Global Governing Body to withstand intruder threat and attack, and have hereby successfully met the resistance and delay requirements appropriate to the level of certification.

This standard identifies that the evaluation and testing practices undertaken by LPCB confirm that

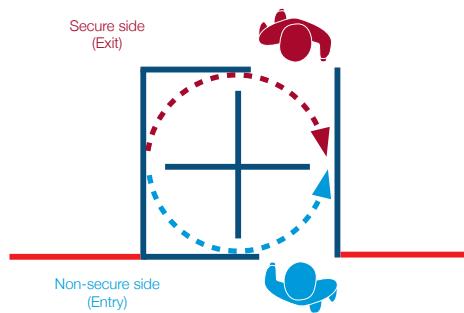
- the product or service meets the standard;
- the manufacturer or service provider has staff, processes and systems in place to ensure that the product or service delivered meets the standard



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Pass Left Version



Pass Right Version

## Fence Line Compliance

In order that the RotaSec HS90 LPS series remains compliant to the LPS certification of which it has been approved, it is imperative that the fence line remains in the location indicated in the right most illustration, indicated by a thick red line.



Want to see RotaSec HS90L in full action?  
Scan this QR code with your smartphone.

# Gunnebo RotaSec HS90L



Take advantage of our knowledge:  
[www.gunneboentrancecontrol.com](http://www.gunneboentrancecontrol.com)

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