

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.

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

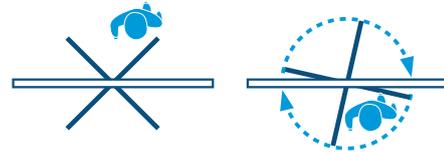
Self-centring to reset position

Action lock preventing two passages at one time

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.

The RotaSec HS90 LPS range



RotaSec HS90L2
Conforms to security rating B3 (SR2)



RotaSec HS90L3
Conforms to security rating C5 (SR3)



RotaSec HS90L4
Conforms to security rating D10 (SR4)

Delay	10 minutes	A10	B10	C10	D10 (SR4)
	5 minutes	A5	B5	C5 (SR3)	D5
	3 minutes	A3	B3 (SR2)	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"> - Adhesive tape - Cable cutter 150mm - Fishing line - Glass cutter - Hexagon wrenches - Hooks - 1 Knife blade 125mm long x 3mm thick - Lever (inc. nail pullers, pry bars & utility bars) - Punches - Screwdriver - Scriber - Selection of spanners - Traction screws - Wire - WD40 	<p>Tool kit A+</p> <ul style="list-style-type: none"> - Bolt cutter 350mm long - Claw hammer 350mm long - Drill bit 6mm diam. - Hand drill - Junior hacksaw - Metal plate sheers - Multiple slip joint pliers - Pipe wrench - Pliers - Screwdriver 7mm/14mm diam. - Tube 	<p>Tool kit A and B +</p> <ul style="list-style-type: none"> - Axe 350mm long - Brick bolsters 250mm long - Cold chisels 250mm long - Crowbar 700mm long - Cordless drill - Drill bit 10mm diam. - Gas torch - Hacksaw - Hammer 400mm long - Pad saw - Scissor jack - Wood chisels 	<p>Tool kit A, B and C +</p> <ul style="list-style-type: none"> - 'A-tool' lock puller 500mm long - 12V battery - Bolt cutters 500mm long - Drill bits 10mm diam. - Felling / fire axe 900mm long - General purpose saw 750mm - Grinder 12V - Hole saw 50mm diam. - Hooligan bar 760mm long - Jigsaw 12V - 'K-tool' lock remover - Plate shears 300mm long - Sledgehammer 900mm long - Steel wedges

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.

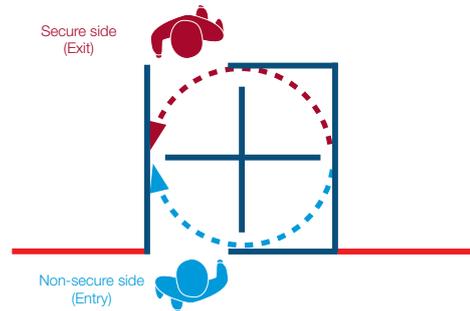
These products have been independently and rigorously tested under strict conditions by BRE Global Governing Body to withstand intruder threat and attack, and have hereby successfully met the resistance and delay requirements appropriate to the level of certification.

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



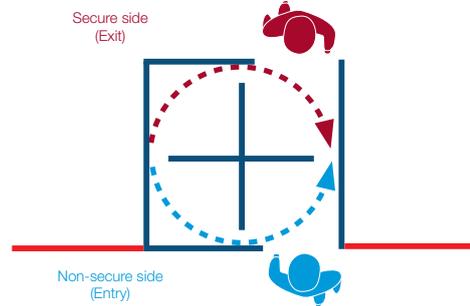
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Pass Left Version

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.



Pass Right Version

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, 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 is mild steel, hot dip galvanized under a final textured polyester powder top coat.

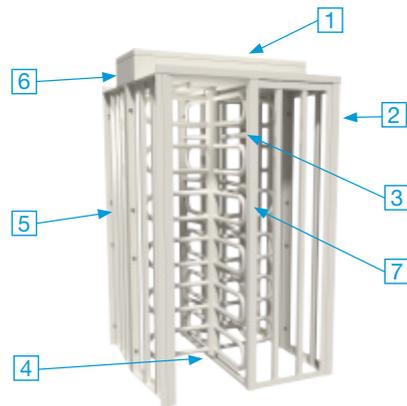
Roof is stainless steel under a final textured polyester top coat.

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).

Options & Accessories

Alternative RAL colours available	Damped head mechanism
Fully assembled or kit form	Card reader integration

Access Specifications

Flow rates by type of reader¹

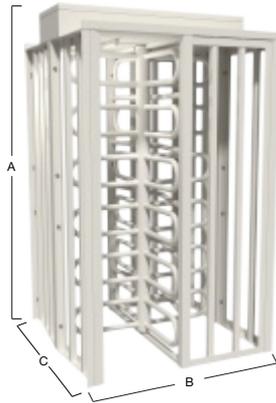
Insertion type	Swipe type	Proximity type
12 Passages per minute	15 Passages per minute	17 Passages per minute

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.



Dimensions & Weights

	Passage Height	Passage Width	A Cabinet Height ¹	B Cabinet Length ²	C Cabinet Width ³	Weight (kg) ⁴
HS90L2	2000	500	2200	1270	1276	400
HS90L3	2000	500	2200	1270	1276	595
HS90L4	2000	500	2200	1270	1276	630

1, 2, 3. Dimensions in (mm). 4. Weight net (kg).
May require lifting equipment. For details refer to installation detail drawings.

Installation & Maintenance

Product Delivery	Application	Site Preparation ¹	Cabling & Conduits ²	Control Board Location	Maintenance Access	MTTR ³	MCBF ⁴	Systems Integration ⁵
Fully assembled (kit form as an option)	Outdoor / indoor	Flat & level finished floor +/- 5mm	Through the ground	In the roof	Above the roof	Less than 30 minutes	3 million	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 HS90L in full action?
Scan this QR code with your smartphone.

Gunnebo RotaSec HS90L



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www.gunneboentrancecontrol.com

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