

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

# RotaSec HS90L

## LPS Series

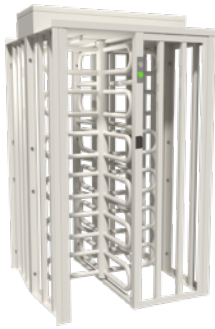
Internal / External Full-Height High Security Turnstile

## 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 centering 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)

## Applications

Petrochemical

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Civil Nuclear

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Pharmaceuticals

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Government Buildings

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Energy

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Data & Telecommunications

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Finance

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Defence

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Emergency services

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Critical infrastructure

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# Technical specifications

## Security features

### Fraud Detection through sophisticated and proven algorithm

Anti-reverse rotation during transit
Self-centering to reset position)
Action lock preventing two passages at one time
LPS 1175 Issue 8 - B3 (SR2) / C5 (SR3) / D10 (SR4) certified

### Status lights



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

#### Green Light

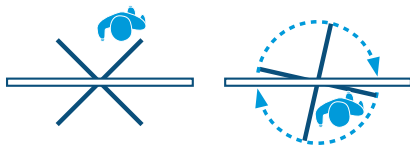
Authorized use. Proceed through the unit.

#### Red Light

Unit in use or no passage. Passage not authorized.

## 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 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.

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 6"</li> <li>- Fishing line</li> <li>- Glass cutter</li> <li>- Hexagon wrenches</li> <li>- Hooks</li> <li>- 1 Knife blade 5" long x 1/8" thick</li> <li>- Lever (inc. nail pullers, pry bars &amp; utility bars)</li> <li>- Punches</li> <li>- Screwdriver</li> <li>- Scriber</li> <li>- Selection of spanners</li> <li>- Traction screws</li> <li>- Wire</li> <li>- WD40</li> </ul>	Tool kit A+ <ul style="list-style-type: none"> <li>- Bolt cutter 13.77" long</li> <li>- Claw hammer 13.77" long</li> <li>- Drill bit 0.23" diam.</li> <li>- Hand drill</li> <li>- Junior hacksaw</li> <li>- Metal plate sheers</li> <li>- Multiple slip joint pliers</li> <li>- Pipe wrench</li> <li>- Pliers</li> <li>- Screwdriver 0.27"/0.55" diam.</li> </ul>	Tool kit A and B + <ul style="list-style-type: none"> <li>- Axe 13.77" long</li> <li>- Brick bolsters 10" long</li> <li>- Cold chisels 10" long</li> <li>- Crowbar 27 1/2" long</li> <li>- Cordless drill</li> <li>- Drill bit 0.39" diam.</li> <li>- Gas torch</li> <li>- Hacksaw</li> <li>- Hammer 15 3/4" long</li> <li>- Pad saw</li> <li>- Scissor jack</li> <li>- Wood chisels</li> </ul>	Tool kit A, B and C + <ul style="list-style-type: none"> <li>- 'A-tool' lock puller 19 11/16" long</li> <li>- 12V battery</li> <li>- Bolt cutters 19 11/16" long</li> <li>- Drill bits 0.39" diam.</li> <li>- Felling / fire axe 35 7/16" long</li> <li>- General purpose saw 29 1/2"</li> <li>- Grinder 12V</li> <li>- Hole saw 2" diam.</li> <li>- Hooligan bar 30" long</li> <li>- Jigsaw 12V</li> <li>- 'K-tool' lock remover</li> <li>- Plate shears 12" long</li> <li>- Sledgehammer 35 7/16" 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 armored 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 unauthorized 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 color selection:

Grey - RAL 7004

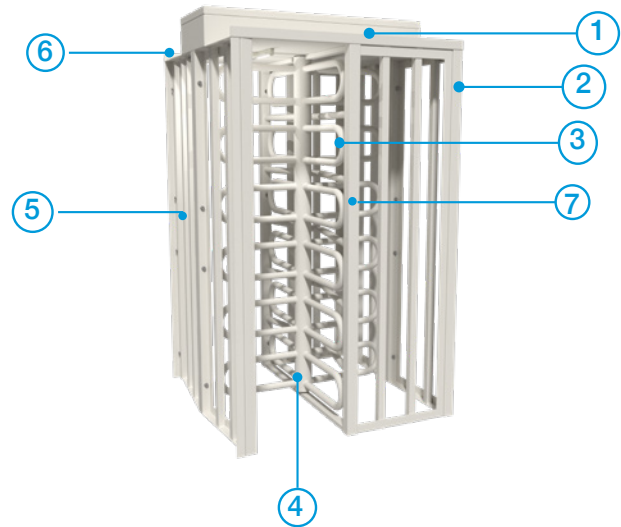
White – RAL 9010

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 colors available

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Fully assembled or kit form

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Damped head mechanism

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Card reader integration

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### 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

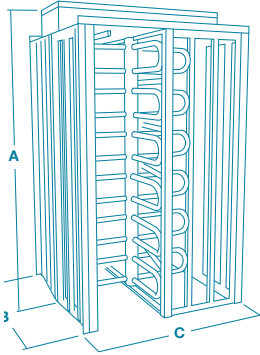
1. Approximate figures

### Electrical Data & Conditions of Use

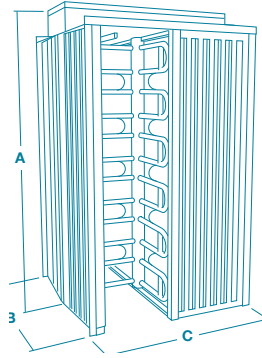
Power supply	Power rating <sup>1</sup>	Fire signal	Operating temperature	IP Rating
115Vac 60Hz	100VA	Input for voltage free contact	23°F to +122°F RH 95% No condensing	Suitable for IPX4 conditions

1. Additional 40VA with optional down lights.

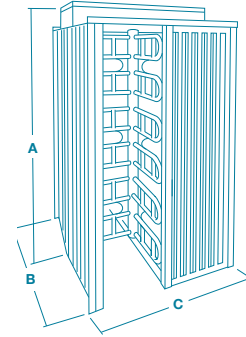
## Site preparation



**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

Model	Passage height	Passage width	A Cabinet height <sup>1</sup>	B Cabinet length <sup>2</sup>	C Cabinet width <sup>3</sup>	Weight (lb) <sup>4</sup>
HS90L2	82.67"	22.91"	86.61"	50"	50.23"	882
HS90L3	82.67"	21.49"	86.61"	50"	50.23"	1312
HS90L4	82.67"	22.91"	86.61"	50"	50.23"	1389

## 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 +/- 0.19"	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

- Bolting depth MIN 4", concrete MIN fckcube4351lb/in<sup>2</sup> resistance, MIN 70.86" x 70.86" x 6" deep
- Running MIN 5 1/2" below finished floor level, should rise MIN 2" from foundation
- Mean time To Repair
- Mean Cycle Between Failure
- 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 Compliance

### LPS certified

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

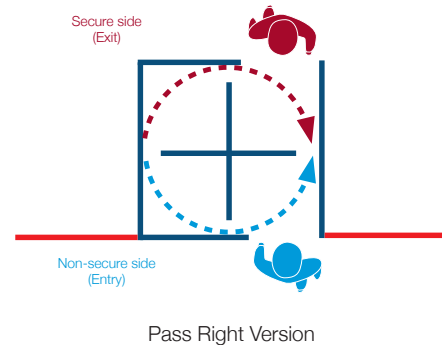
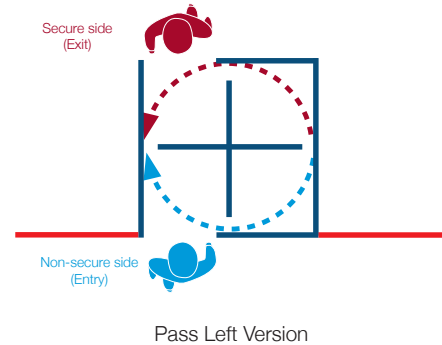
These products have been independently and rigorously tested under strict conditions by BRE Global Governing Body to withstand intruder threat and attack, and have hereby successfully met the resistance and delay requirements appropriate to the level of certification.

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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## 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.

# RotaSec HS90L

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GEC-US-RHS90L-2508-V3.1

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