

# ClearLock 645

## Datasheet

Rev. 06 • Update 02/2022

**AUTOMATIC**  
SYSTEMS

ClearLock™



### DESCRIPTION

1. Painted steel **upper casing** containing the drive mechanism and the control board unit of the security booth.
2. **Mobile obstacles** in laminated glass 27 mm thick BR3/S (EN1063), P6B (EN356). Each leaf is equipped with a protection ensuring the safety of users.
3. **Side panels** made of painted steel.
4. **Floor resin** of 28 mm thick for installation on finished floor.
5. **Control board unit & motorisation** comprising:
  - Programmable electronic board
  - Remote console for operating mode adjustment
  - Voice messages device
  - Connection terminals including RS485 interface port
  - 24V DC power supply
  - Two back-up batteries ensuring 100 cycles in case of power failure
  - Two 24V DC motors controlled by the programmable electronic board, ensuring fast movements with progressive deceleration at the end of the cycle.
  - Electro-mechanical lock of the obstacles (with programmable unlocking in case of power failure)
  - Safety cells for reopening in case a presence is detected in front of the obstacles (anti-pinch safety)
6. **Spotlights** for the passageway lighting.
7. **Function pictograms**: red and green LED displays indicating the status of the security booth.
8. **Presence sensors and single person device**.
9. **Push buttons** for emergency opening and intercom.
10. **Lock** for external door locking.

The ClearLock series booths are designed to provide high security access control and management of pedestrian flow.

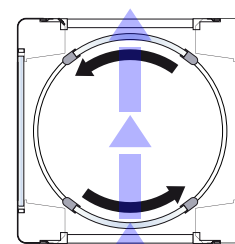
Their design and robust manufacture allow easy integration into prestigious site such as office buildings, airports, laboratories and sensitive sites.

Consisting of a frame, a painted steel housing and glass panels, the high-security **ClearLock** series booths provide thermal insulation and stand out in their surroundings.

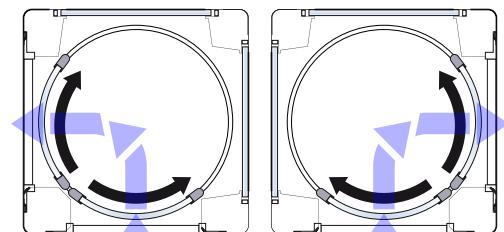
The high-security **ClearLock** series booths are motorised and bi-directional.

The high-security **ClearLock 645** booth is equipped with two mobile obstacles which provide a **free passage area of 580 mm**, an external dimensions of 1.050 x 1.050 mm.

The high security **ClearLock 645** is available with straight (180°) or left/right angled (90°) passage.



180°



90° L

90° R



## CONFIGURATIONS

1. RAL7035 Light Grey (by default) - RAL9011 Black - RAL9010 White - RAL8019 dark brown.
2. Profile position for wall connection:
  - entry / outside side.
  - middle position (by default).
  - exit / inside.
3. In the event of a power failure:
  - All doors can be opened manually
  - Exit door (secured side) remains locked  
Entry door (non-secured side) can be open manually
  - all doors remain locked
4. Integration of card reader, intercom and/or push button at the entry and/or exit of the booth.
5. Choice of the language of voice message and control consol.

## SURFACE TREATMENT

All the mechanical parts are treated against corrosion by electro zinc, according to RoHS norms.

## STANDARD TECHNICAL CHARACTERISTICS

Power supply	230V single phase, 50/60 Hz, 10A + ground.
Consumption	200 W.
Ambient operating temperature	From -10° to +55°C.
Backup battery	2 batteries of 2 Ah for the functioning in case of power failure.
Motors	2 motors of 24Vcc for the reversible movement of the doors, with security lock in closure. Opening of both doors in case of emergency.
Accident-prevention security	Sensors on the panels, both in entrance and in exit and control system that guarantees the regulation of the motor torque.
Passages	<ul style="list-style-type: none"> <li>- 6 passages per minute in one direction</li> <li>- 8/9 passages per minute in both directions (such data do not consider the possible working times due to utilization of card/badge readers)</li> </ul>
Dimensions	Overall dimensions (mm): Height: 2363 Width: 1050 Length: 1050 Passage dimensions (mm): Height: 1990 Width: 580
Weight	660 kg, depending on glass
Relative ambient humidity	85%, without condensation.
MCBF (Mean cycles between failures)	<b>1,000,000</b> cycles, in compliance with recommended maintenance
MTTR (Mean time to repair)	1 hour
<b>CE</b>	Complies with European standards

## WORKS TO BE PROVIDED BY THE CUSTOMER

- Fixing on the floor
- Power supply
- Connection between booth and access control devise.

**Note:** Follow the installation plan.

## OPTIONS

1. Metal plate cover on the top of the booth.
2. Microswitch contact under the cover for anti infraction alarm.
3. Non standard RAL colour.
4. Smooth RAL colour.
5. Brushed stainless steel 304 L.
6. Floor frame for built-in installation.
7. Special support for installation on technical floor. (H min. 100 mm / H max. 400 mm)
8. Support for reader (card, biometric...), placed inside the booth.
9. Support for readers (width > 4 cm) fixed on the internal (exit) or external (entrance) side of the booth metal structure.
10. Mechanical locker for metal objects with 10 drawers.
11. Radar for automatic door opening (entry and/or exit way).
12. Colour video camera inside of the booth.
13. Auxiliary control console (in connection with the standard control console).
14. Remote special console with extra buttons (3 rows of buttons).
15. 12V 7 Ah batteries (2).
16. Electronic card for the transmission in serial line of the weight detected inside the booth.
17. Converter RS485 to LAN for network consoles (each).
18. Service kit (cable, software, key...).
19. Top canopy with different height.
20. Virtual Console for remote monitoring (software & PC).

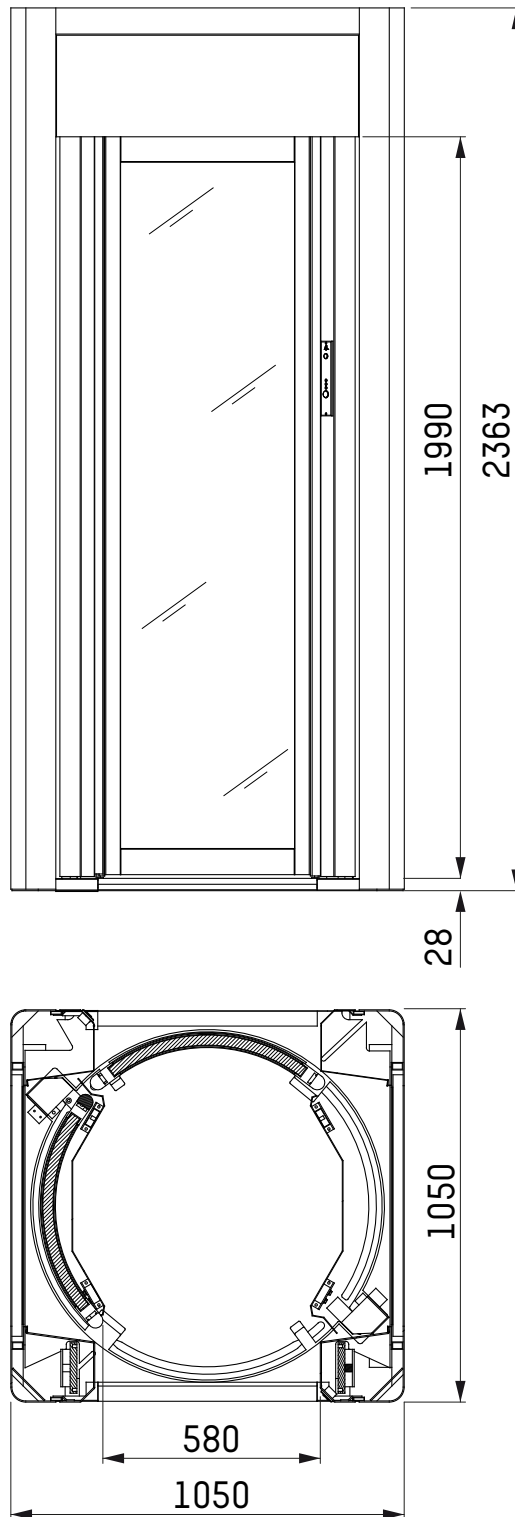
## SPECIFICS OPTIONS

1. Left / Right angle 90° passage.
2. Single person detection by floor weight detection system.
3. Lateral glass BR3S P6B (each panel).
4. All lateral + mobile glasses BR4S P8B.
5. BR4NS P8B alternative.
6. Product structure in FB4 certificated metal (EN1522).
7. Force entry resistance RC4 (EN1627) BR3 (EN1063) P6B (EN356).
8. Rain protection / product with weight detection (IP33) +50 mm height of the product.
9. Metal detector & Left object control devices (\*) (clear passage of more than 810mm) entry way only.
10. Heating of the canopy for outside front installation.
11. Dismountable booth (instead of welded). Delivered assembled or shipment in parts.
12. Frosted glass.

(\*) not compatible with RC4 option

**Note:** For restrictions on options, please contact us.

## STANDARD DIMENSIONS (MM)



### Headquarters

Avenue Mercator, 5  
1300 Wavre - Belgium



✉ [helpdesk.as@automatic-systems.com](mailto:helpdesk.as@automatic-systems.com)



☎ +32.(0)10.23.02.11



🌐 [www.automatic-systems.com](http://www.automatic-systems.com)



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