

RSB M50

Datasheet

Rev. 12 • Update 04/2022

AUTOMATIC
SYSTEMS



The **RSB M50** series is built with a weak depth design to avoid the main problems of laying in presence of public services (cables ducts, drainage systems, and similar).

The **RSB M50** is the basic version typically used for protection of high risks area as airports, military and chemical sites, stadiums, etc.

STANDARD TECHNICAL SPECIFICATIONS

Impacts resistance certifications:				
Crash-tested	PAS68:2013V/7500(N3)/80/90:0.2/10			
Rated in compliance with	IWA 14-1:2013 V/7200(N3C)/80/90 DOS K12 & ASTM M50			
Breakout resistance (type of vehicles)	3,5T at 112 km/h 7,5T at 80km/h			
Breakout resistance	2.000.000 joules			
Power supply	230VAC (+/- 10%) - 50/60HZ			
RSB height	1000 mm			
	RSB M50 - 2000	RSB M50 - 3000	RSB M50 - 4000	RSB M50 - 5000
Moving platform width	2000 mm	3000 mm	4000 mm	5000 mm
	*RSB M50 - 6000 : Single unit underground / 2 x 3 m width on surface			
Weight	1530 kg	2120 kg	2670 kg	3100 kg
Rising speed	14,2 cm/sec (Optional: EF0 raising time 2 s)			
Lowering speed	14,2 cm/sec			
Ambient operating temperature	-40 °C +70 °C (for low temperatures, use the heating resistance)			
Frequency of use	2000 cycles/day			
MCBF (Mean cycles between failures)	3.000.000 cycles, in compliance with recommended maintenance			
IP rating	IP 67			
Load class (EN124 norm)	D400			
Finishing of the mobile obstacle	Steel with Anti-skid coat finishing			
Metal skirt	For closing front and side of the road blocker (white/red)			
Movement	Hydraulic			
Complies with European standards				



SURFACE PROTECTION

Treatment B:

- Sand blasting (SA 2,5)
- Epoxy powder primer (80 µm)
- Polyester powder finishing paint (80 µm)

WORKS TO BE PROVIDED BY THE CUSTOMER

- Concrete foundation and rebars supply.
- Drainage or connection to mains drainage.
- Power supply.
- Electric connections with external peripherals.

Note: Follow the installation plan.

CONTROL CABINET

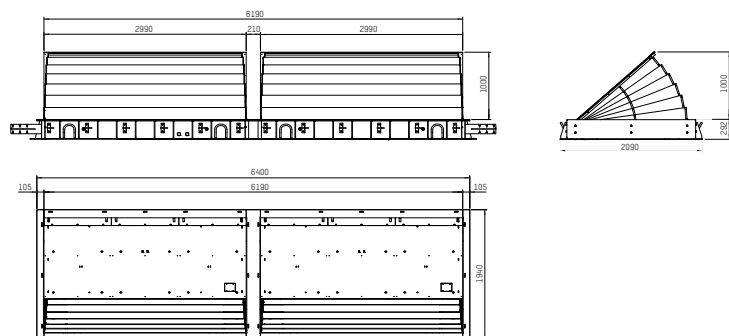
This cabinet contains the control unit and the hydraulic pump.

Electronic control circuit	Micro-processor-operated, with dedicated software which manages the ROAD BLOCKER units
IP rating	IP 67
Ambient operating temperature	From -40°C to +70°C
Control unit power supply	230VAC +/- 10% - 50/60Hz
Protection cut-off	Magneto-thermic switch
Service power supply	Standard 27 VDC - 5,6A
Standard cabinet	
Without base plate:	600x400x1200 (LxWxH)
With base plate:	600x400x1400 (LxWxH)
IP rating cabinet	IP 66

6m MODEL

The retractable obstacles of 6 meters length appear as follows:

- A unique 6m frame to integrate into the ground;
- 2 movable obstacles of 3 meters slightly spaced and operating synchronously;
- A single cabinet containing one control logic and a pump that operates both movable obstacles.



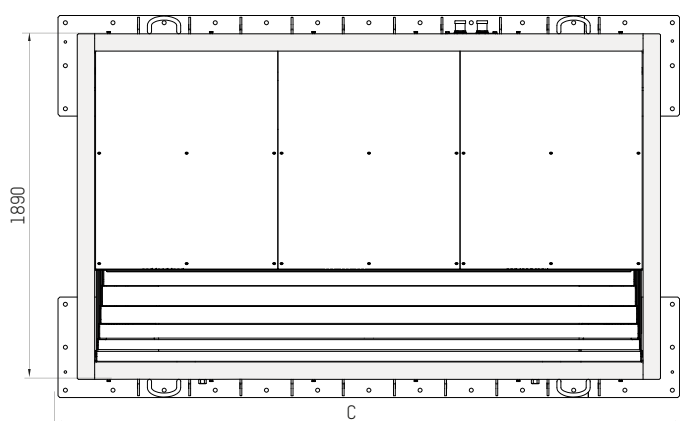
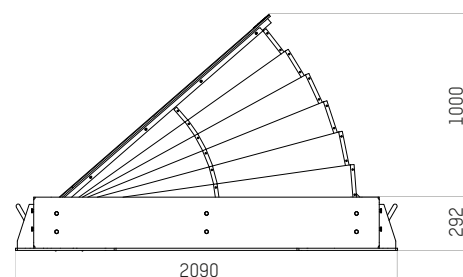
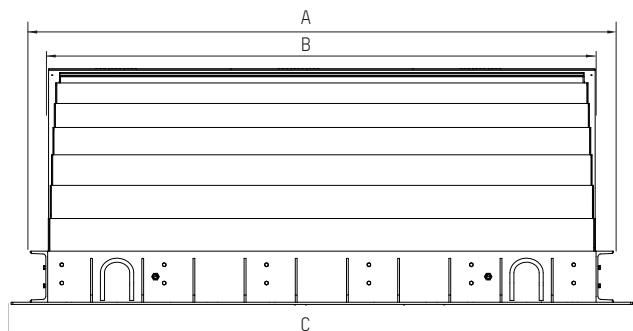
OPTIONS

1. Buzzer acoustic signal.
2. Additional connection line (Electric + hydraulic) ⇒ control unit (max. 30m) - Supplied in multiple of 5m.
3. E.F.O. unit for Emergency rising (**requires option n°27**).
4. Security lock in high position for road blocker (incl. Kit for lowering in case of power failure).
5. N.O. solenoid valve for automatic lowering if power failed.
6. Device for manual handling in case of power failure.
7. Feeder/accumulator group on control panel for emergency lowering if power failed (1 per road blocker).
8. UPS group (2,4kw - 3KVA) for working max 1 road blocker (10 operations or 1hour) in case of power failed.
9. Auxillary pump (20 operations/hour in case of power failure).
10. Floor basement for control unit with ou without painted stainless steel (essential if road blocker is equipped with the device for manual handling).
11. Security lock for control unit cabinet.
12. Control unit housing painting with any RAL color.
13. Control unit housing in stainless steel.
14. Heating device for control unit.
15. Kit LED lamp and shuko socket 230v for control unit.
16. Kit Up/Down to signal position - Up - Down.
17. Metal skirt painting with any RAL color (ex: yellow/ black).
18. Anticorrosive treatment 'M': ⓘ
 - Sand blasting SA2.5
 - Epoxy powder paint of ± 80 µm thick
 - Two-component Epoxy paint of ± 180 µm thick
 - Two-component polyurethane topcoat of ± 60 µm thick
19. Multipoint LED crown (30 led points/m).
20. Embossed metal sheet in AISI 304 stainless steel ⓘ.
21. Heating resistance.
22. Traffic lights LED version Ø100 mm (Red/Green).
23. Galvanized stake diameter 105mm for traffic light .
24. GSM activator for remote control.
25. Weekly or Yearly timer programmer.
26. Pressure gauge 0/60 bar or 0/250 bar with connection to show the pressure in the hydraulic pump.
27. Kit for verification and recharge of the EFO accumulator.
28. Inductive detector for one or two-channel inductive loops, for safety or for command.
29. Inductive loop for detection - Car or truck
30. Photo-electric cell - Transmitter/Receiver or Reflex.
31. Cell support post for Transmitter/Receiver or Reflex.
32. Radio transmitter or receiver (with or without aerial) 2 ways.
33. Push button box - 2 (opening/closing) or 3 buttons (opening/closing/stop).

ⓘ Mandatory for an installation less than 2 km from the seaside or for intensive sandblasted pavement (3 months/year).

Note: For restrictions on options, please contact us.

STANDARD DIMENSIONS (MM)



MODELS	A	B	C
RSB M50_2000	2190 mm	1990 mm	2400 mm
RSB M50_3000	3190 mm	2990 mm	3400 mm
RSB M50_4000	4190 mm	3990 mm	4400 mm
RSB M50_5000	5190 mm	4990 mm	5400 mm

Dig a pit with a **depth of 500 mm** and the following dimensions:

- **Version 2 m:** 3200 × 3400 mm
- **Version 3 m:** 3200 × 4400 mm
- **Version 4 m:** 3200 × 5400 mm
- **Version 5 m:** 3200 × 6400 mm

Note: Reinforcements not shown in the above drawing.

HEAVY TRAFFIC APPLICATION

- The RSB M50 comply with EN 124 Class D400 and are used by medium and moderate traffic road applications: access control, lane closure, etc.
- For uses with heavy traffic, specific conditions of use and adaptations are mandatory (signalling, operating modes, maintenance, mechanical lock, reinforcements, etc.).

Please contact us so that a suitable and secure solution can be proposed to you.

Headquarters

Avenue Mercator, 5
1300 Wavre - Belgium



✉ helpdesk.as@automatic-systems.com

☎ +32.(0)10.23.02.11

🌐 www.automatic-systems.com



RSB M50-FT-EN-12