

# RSB M50

## Technical datasheet

Rev. 16 • Update 05/2026



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

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

### STANDARD TECHNICAL SPECIFICATIONS

Impacts resistance certifications:				
Rated in compliance with	IWA 14-1:2013 V/7200(N3C)/80/90 ASTM M50 & D0S K12			
Crash-tested	PAS68:2013 V/7500(N3)/80/90:0.2/10			
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 time	7 sec. (Optional: EFO rising time 2 sec)			
Lowering time	7 sec.			
Ambient operating temperature	from -20°C to +70°C. (Please select the appropriate heating option to prevent the formation of ice)			
Frequency of use	2000 cycles/day			
MCBF (Mean cycles between failures)	<b>3,000,000</b> cycles, in compliance with recommended maintenance			
IP rating	IP 67			
Load class (EN124 norm)	D400			
Metal skirt	For closing front and side of the road blocker (white/red)			
Movement	Hydraulic			
Complies with European standards				



## OPTIONS

### AESTHETICS

- Finely structured matt powder coating (any RAL colour on request) of the metal skirt (ex: yellow/ black).
- Mobile panel in embossed AISI 304 stainless steel (instead of checkered powder coated steel).
- Anti-corrosion marine treatment. ⓘ

### CONTROL

- Additional electric cables to connect the road blocker RSB M50 to the control unit (max 30m in total; 10m included in standard + max 20m as an option) - Supplied in multiples of 5m.
- EFO circuit for emergency rising.
- Additional security valve on the piston in order to block the mobile panel of RSB M50 in the high position in case of pump pipe sabotage (includes battery & push button in the electrical cabinet, for release of the valve and thus lowering of the road blocker in case of power failure).
- N.O. solenoid valve on the pump for automatic lowering in case of power failure.
- UPS device 3.0kW - 3kVA for operation of max 1 RSB (10 operations or 1 hour) in case of power failure.
- Emergency lowering in case of power failure - terminal block ready for the installation of a button (not included) on the control panel in the electrical cabinet (1 per RSB unit).
- Auxiliary pump (20 operations / hour in case of power failure) - equipped with 2 rechargeable 12V 12Ah batteries in case of power failure.
- Device for manual handling (rising/lowering) in case of power failure (inside the electrical cabinet).
- Heating device (including transformer and thermostat - for operation up to -20°C).
- Heating device for the electrical cabinet for the control unit (including transformer and thermostat - for operation up to -20°C).
- Air conditioner 230V 500W for the electrical cabinet with the control unit.<sup>1</sup>
- Position information kit (return of a signal Up or Down).
- Floor-mounted electrical cabinet for the control unit in brushed stainless steel AISI 304 (instead of powder coated steel).
- Floor basement of the electrical cabinet for the control unit in powder coated steel.<sup>2</sup>
- Floor basement of the electrical cabinet for the control unit in powder coated stainless steel.<sup>2</sup>
- Finely structured matt powder coating (any RAL colour on request) of control unit housing.
- EuroLock profile EN 1303 on the electrical cabinet with the control unit.
- Kit with lighting & Shuko socket 230V in the electrical cabinet.

### SIGNALIZATION

- Buzzer > 80dB.
- Lighting strips (30 LEDs/m).
- Traffic light Ø100mm - Red/Green (without post).
- Powder coated steel post for traffic lights (Ø105mm - height 3.55m).

### OTHER OPTIONS

- Presence sensor for safety one (or two)-channel inductive loops.
- Presence sensor for command one (or two)-channel inductive loops.
- Presence sensor for one-channel safety inductive loop and for one-channel command inductive loop.
- Cell phone activator for remote control (up to 900 connected cell phones).
- Weekly / Yearly timer programmer.
- Oil sensor providing a signal output to inform on the hydraulic oil level.
- Pressure gauge 0/250 bar with connection to show the pressure in the hydraulic pump.
- Kit to test and recharge the nitrogen pressure into the pressure accumulator.<sup>3</sup>

1 This option is recommended for temperatures above +40°C when the average use is more than 100 cycles per hour.

2 This option is MANDATORY if the product is equipped with the device for manual handling.

3 This option MUST be ordered with the EFO option (one unit per group of products installed at the same location is sufficient).

ⓘ Recommended for installations less than 3 km away from the sea or for location where de-icing salt is sprayed in the winter time.

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

### WORKS TO BE PROVIDED BY THE CUSTOMER

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

**Note:** Follow the installation plan.

### CONTROL CABINET

The wall-mounted cabinet contains the control unit and the hydraulic pump.

#### Cabinet dimensions:

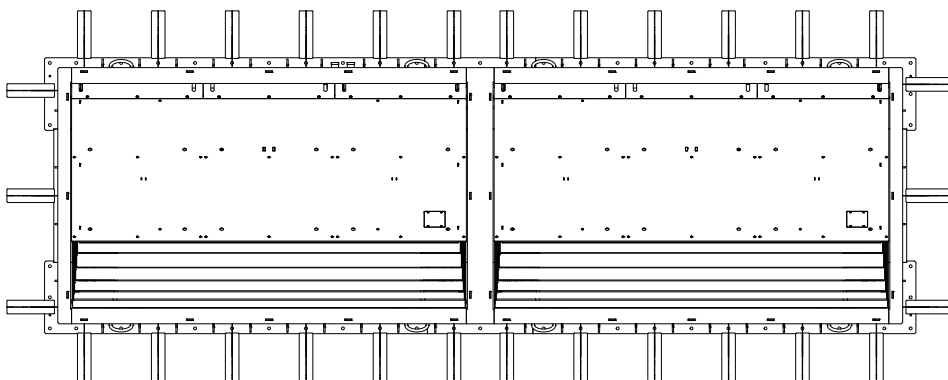
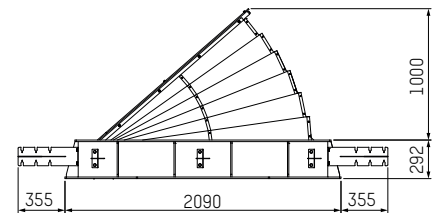
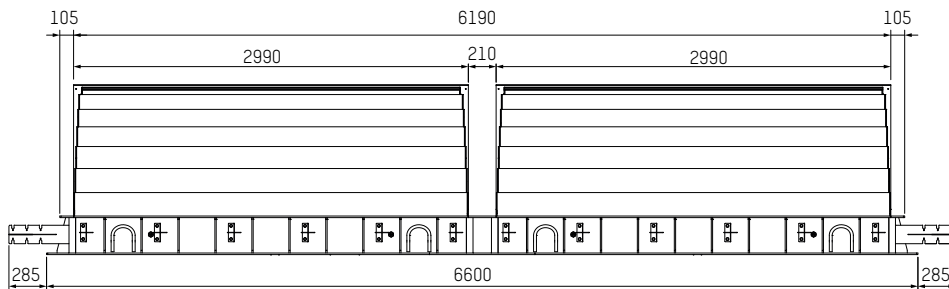
- Without baseplate = 800x400x1200 (LxWxH)
- With baseplate = 800x400x1400 (LxWxH)

**Note:** The dimensions of the control cabinets may vary depending on the selected options. Confirmation of the cabinet dimensions will be provided when the electrical diagrams are made available upon request, 15 days before delivery, or upon prior request.

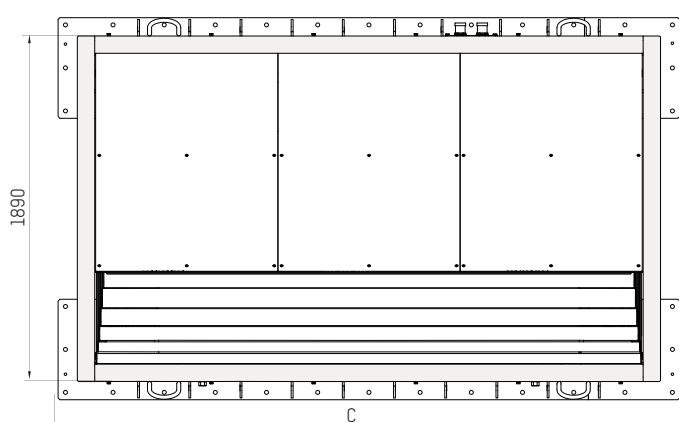
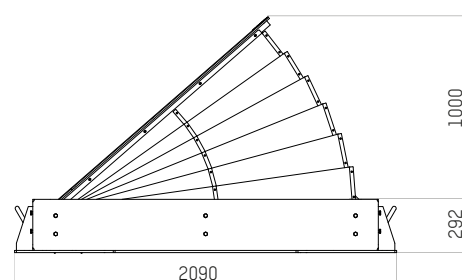
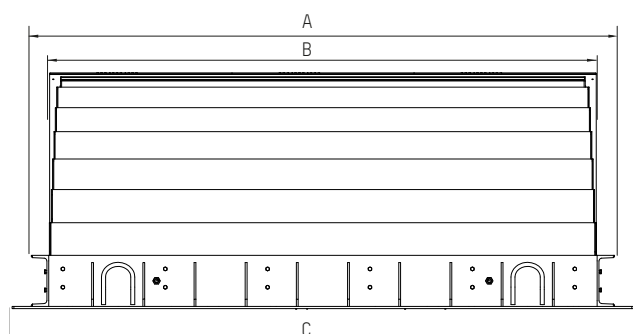
### 6M MODEL

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.



### 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
- **Version 6 m:** 3200 × 7400 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.**

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