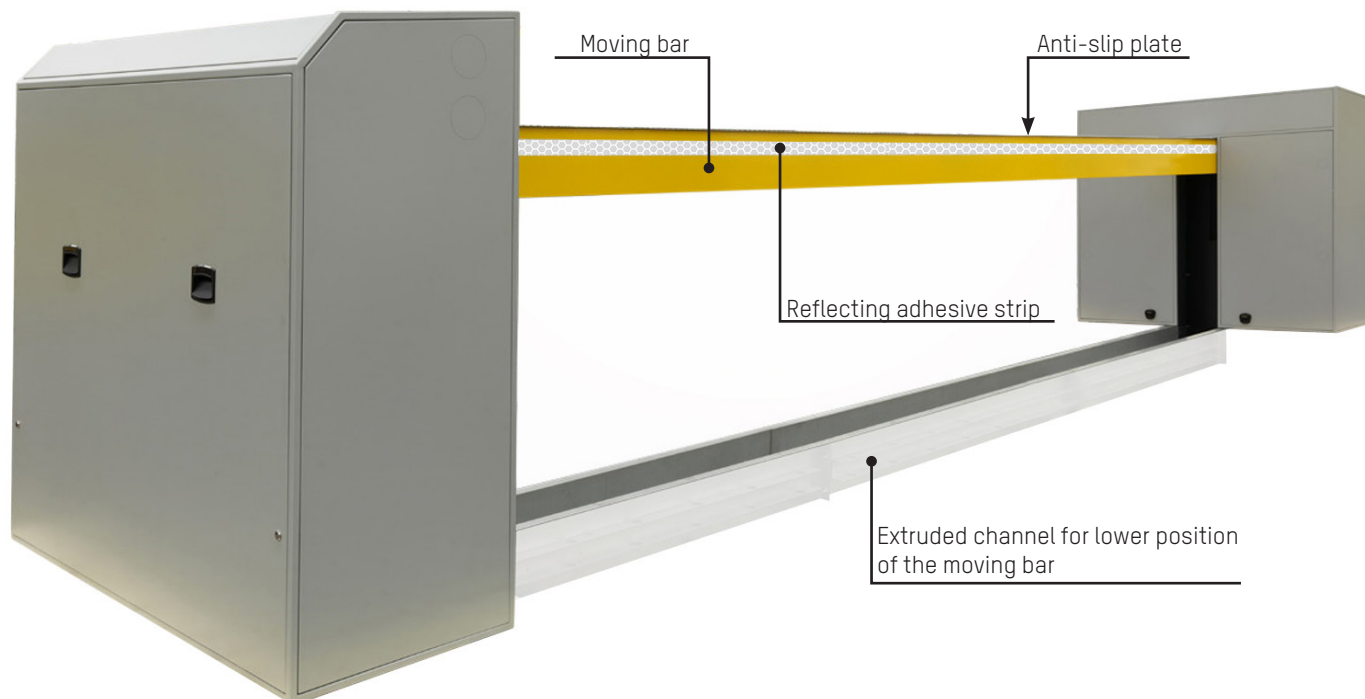


BL M50

Technical datasheet

Rev. 08 • Update 09/2025

AS AUTOMATIC
SYSTEMS



The motorized barriers with vertical movement, called **BL M50**, have a considerable mechanical strength to meet the highest anti-terrorism security requests because they are designed to resist to the breakout of a truck having a weight of 6800 kg which impacts at 80km/h

CHARACTERISTICS

1. **Hydraulic movement:** the most reliable technology at all temperatures and weather conditions but especially for the intensive use.
2. **Control unit equipped with PLC:** this solution ensures regular rising / lowering speed also in case of different temperature ranges.



STANDARD TECHNICAL CHARACTERISTICS

Impacts resistance certifications:				
Rated in compliance with	PAS68:2013 V/7500(N3)/80/90 IWA 14-1:2013 V/7200(N3C)/80/90 ASTM M50 & DOS K12			
Breakout resistance (type of vehicles)	3.5T at 112 km/h 7.5T at 80 km/h			
Breakout resistance	2.000.000 joules			
Power supply	230/400Vac (+/- 10%) - 50/60Hz			
Moving barrier height from ground level	1100 mm			
Moving barrier width	3000 mm	4000 mm	5000 mm	6000 mm
Maximum dimensions of the barrier	4470 x 2200 x 1988 mm	5470 x 2200 x 1988 mm	6470 x 2200 x 1988 mm	7470 x 2200 x 1988 mm
Weight	1700 kg	1850 kg	2000 kg	2150 kg
Rising time	7 sec. (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)	3.000.000 cycles, in compliance with recommended maintenance			
IP rating	IP67			
Load class	D400			
Movement	Hydraulic			
Complies with European standards				

OPTIONS

AESTHETICS

- Finely structured matt powder coating (any RAL colour on request) of side housings.

CONTROL

- UPS device 6.0kW - 6kVA for operation of max 1 BL M50 (10 operations or 1 hour) in case of power failure.
- Device for manual handling (rising/lowering) of the barrier in case of power failure (inside the electrical cabinet).
- Heating device for the electrical cabinet for the control unit (including transformer and thermostat - for operation up to -20°C).
- Heating device for the channel receiving the moving bar.
- Position information kit (return of a signal Up or Down).
- 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).

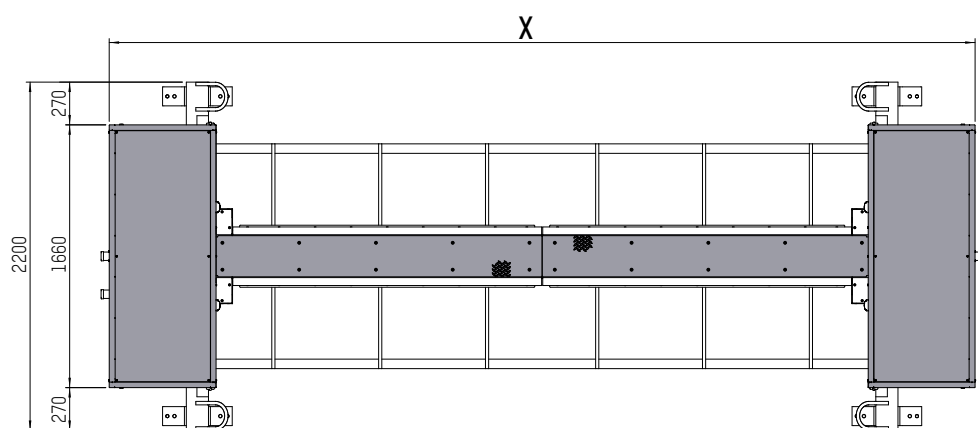
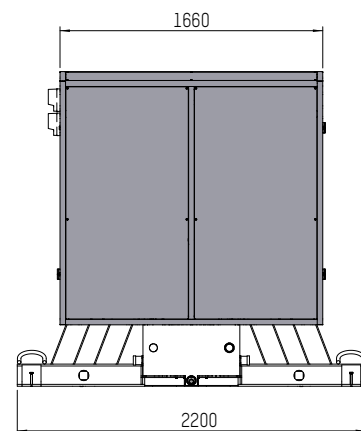
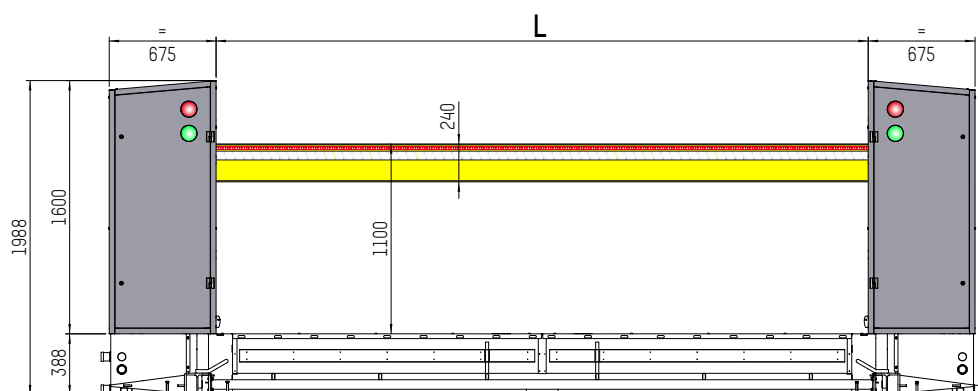
OTHER OPTIONS

- 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.
- Pair of photoelectric cells for car or truck control.
- 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.¹

¹ The option MUST be ordered with the EFO option (one unit per group of products installed at the same location is sufficient).

Note: For restrictions on options, please contact us.

STANDARD DIMENSIONS (MM)



MODELS	A	X
BL M50_3000	3120 mm	4470 mm
BL M50_4000	4120 mm	5470 mm
BL M50_5000	5120 mm	6470 mm
BL M50_6000	6120 mm	7470 mm

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

- **3 m version:** 3800 × 5200 mm
- **4 m version:** 3800 × 6200 mm
- **5 m version:** 3800 × 7200 mm
- **6 m version:** 3800 × 8200 mm

