

The industrial BL52 rising barrier is designed to control vehicle access through large entrances. Its robust and oversized mechanics makes it possible to move a boom arm up to 14m long.

### Description

1. Manufactured in shaped and welded steel sheeting 3 to 10 mm thick, with a framework of steel profiles welded into a strong section.
2. Removable upper hood, locked from the inside.
3. Two side doors with peripheral weather seals and safety lock to insure easy access to the internal mechanism.
4. Aluminium tube barrier arm, varnished white with red reflecting stripes. The barrier arm is composed of 3 sleeves of decreasing diameter (100/90/84 mm) with an end-sealing cap. The barrier arm is mounted in central position on a steel pole.
5. Bracing wires and slack adjusters in stainless steel. The number of braces is increased from 2 to 4 for a boom arm over 10 m long or according to the boom arm options chosen.
6. Arm shaft mounted on two life-lubricated ball bearings.
7. Electro-mechanical assembly comprising:
  - three-phase induction motor,
  - life-lubricated worm-screw gearbox,
  - operation by grooved pulley and V-belt making the adaptation of the operation speed possible according to the length of the boom arm,
  - movement transmission by crankshaft-rod mechanism with ball strap joints, to insure progressive shock-free accelerations and decelerations, as well as mechanical locking of the arm in end positions,
  - safety torque limiter with adjustable friction,
  - limit switches activated by adjustable cams.
8. Barrier arm balancing by means of a compression spring.
9. Programmable electronic control logic type D1 monitored by a micro-controller allowing various control operations and/or complementary accessories (see related technical data sheet). The logic protection to dust and condensation is assured by a removable hood. Electrical protection is secured by a bipolar circuit-breaker.
10. Emergency crank with safety cut-out for manual barrier operation in the event of power failure.
11. Tip support.
12. Fixing frame made of a fixing frame with threaded rods to be fixed in a concrete base to be provided by the customer.

### Surface treatment

Protection against corrosion

Internal mechanical items : yellow electrozinc dichromate coating.

Complete housing : sandblasting and 1 layer of zinc primer.

Paint : 1 coat of 2-component epoxy anti-rust primer and 1 coat of 2-component polyurethane top coat. Standard colour: Orange RAL 2000

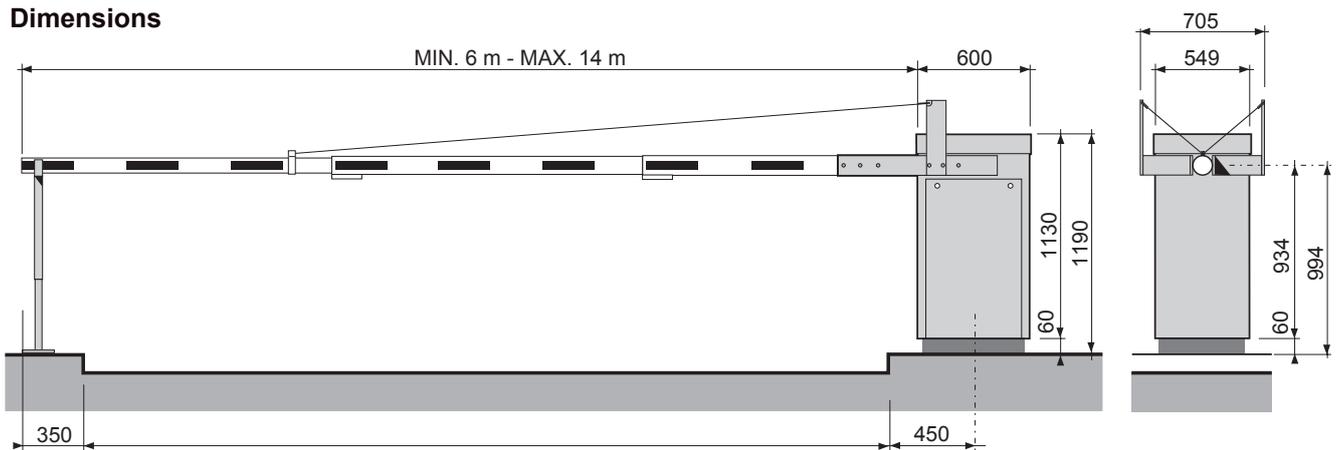
### Technical characteristics

- Power supply: 3-phase 230/400V+N + GND, 50Hz-60Hz (to be precised at the order)
- Power consumption: at rest: 85 W (heater included)  
in operation: 350W
- Motor: induction, 3-phase 250W
- Gearbox: worm-screw, life-lubricated
- Thermostatic heater: 80 W
- Boom arm balancing: by adjustable spring
- Length of boom arm: 6 to 14m
- Position of boom arm: central
- Operation temperature: -20° to +50°C
- Operation time: 8 to 12 sec. according to the boom's range and the installed options
- Net weight (without boom arm): ± 340 Kg
- MCBF: 1,5.10<sup>6</sup> cycles
- Protection index: IP44

### Optional tip supports

- Standard tip support
  - Folding tip support \*
  - Electromagnetic tip support \*
- see specific technical data sheets

### Dimensions



### Options

- Power supply other than three-phase 230/400V current.
- Crank entry closing plate with lock.
- Vehicle presence detector(s).
- Non-standard colour RAL paint (colour to be defined at the time of order).
- Steel raising base.
- Tropicalization of electrical components.

### Barrier arm options

- Offset barrier arm
- Continuous or flashing boom lighting\*
- Aluminium-profiled rigid folding skirt \*
- Flexible plastic-linking folding skirt \*
- Folding fence \*
- Sign panel(s) \*

### Note

The choice of an option indicated with an asterix (\*) will reduce the arm entrance. Please consult sheet "Limits of use".

### Work to be supplied by the customer

- Three-phase power supply 230 V or 400V+N, 10A.
- Electrical wiring connection to the control instruments.
- Means of fixing to the ground, according to the nature of the existing ground (please refer to installation plan n° CH1540).

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