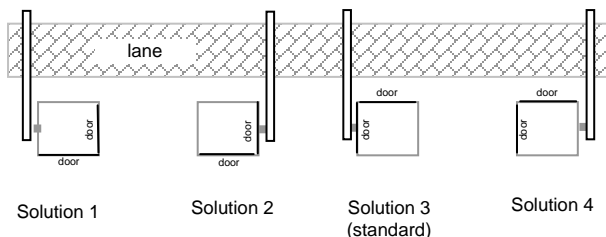


Industrial rising gate secured with rigid fence to control access of vehicles at medium access points for industrial sites, traffic management, etc

## Description of standard equipment

1. Sheet metal body folded and welded, from 3 to 8 mm thick.
2. Side and front doors with peripheral sealing gasket and key lock, providing easy access to the mechanism.
3. Removable top cover, with lock and key.
4. Offset rectangular (120 x 80 mm section) aluminium arm, lacquered white with red reflective strips.  
The arm is provided in standard with a rigid fence in aluminium with anti-climbing profile (cockscomb) and rubber protective profiles.  
The rigid fence is composed of aluminium tubes with Ø25 mm profile welded on both sides of the arm.
5. Solid arm driving shaft, diameter 50 mm, mounted on 2 lifetime lubricated bearings. The axle exit, centred on the housing, provides for the easy reversal of the barrier model (arm to the left or to the right side of the housing), which provides 4 configurations, taking also into account the position of the doors (see illustration).
6. Electromechanical assembly:
  - Reversible three-phase asynchronous gear motor which provides protection of the mechanism in the event of unauthorized forced lifting of the arm.
  - Secondary transmission by pinion and drive gear. The arm is held in its two extreme positions (open and closed), and after a STOP command, by means of an electromagnetic brake.
  - Frequency inverter provides graduated acceleration and cushioned decelerations, for vibration-free movement, smooth direction reversal (reopening) and improved protection of the mechanism.
  - Electronic electromechanical assembly torque limiting enables for the instant stop of the arm during closing if an obstacle is encountered.
  - Inductive limit switches.
  - Balancing of the arm by means of one or more compression springs, depending on the weight of the arm.
7. Lever for manual lifting of the arm (except for the automatic opening option).
8. AS1320 programmable logic controller provides various control options and/or additional accessories.
9. Connection terminal block on PLC output:
  - Gives arm position state (open or closed)
  - Gives presence detectors state
  - Allows master-slave control of 2 barriers opposite each other (movement of one barrier controlled by the other barrier).
  - Etc.

## Configurations



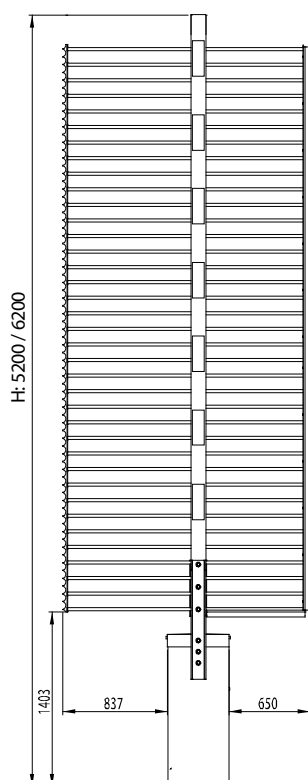
## Surface treatments

- Zinc-coated internal mechanical parts.
  - Complete body (housing, base plate, cover and doors): zinc dusting + epoxy structured paint available as standard in different colours :
    - o RAL 2000 – orange (by default)
    - o RAL 3020 – red
    - o RAL 6005 – green
    - o RAL 7016 – anthracite grey
    - o RAL 9007 – aluminium grey
    - o RAL 9010 – white
- Total thickness of the surface treatment exceeds 160 µm.

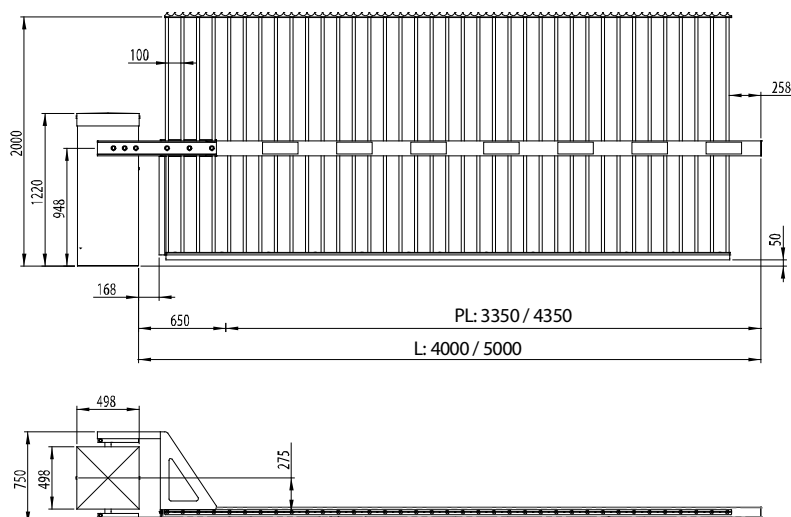
## Standard technical specifications

- Electrical power supply: single phase 230 VAC, 50/60Hz. (not to be connected to a floating network or to an industrial distribution network with a high impedance earth)
- Nominal power draw: 450 W.
- Three-phase 250 W asynchronous motor.
- Reversible bevel ring and pinion speed reducer, service factor 1.2.
- Useful arm length (L): 4 or 5 m, resulting in free passage (PL) of 3.35 or 4.35 m respectively.
- Ambient operating T°: between -20 and +50° C (without optional heating).
- Tolerated relative humidity: 95%, without condensation.
- Minimum opening/closing time: 6 sec (configurable via the Programmable Logic Controller)
- Net weight (without arm): 300 kg.
- MCBF (Mean Cycle Between Failure), in compliance with recommended maintenance: 1,250,000 cycles.
- IP44
- EC compliant.

## Standard dimensions (mm)



PL	3350	4350
L	4000	5000
H	5200	6200



## Options

1. Automatic opening of the arm in the event of power failure.
2. Locking of the arm in opened and/or closed position <sup>(a)</sup>.  
*Desired power failure behaviour (locked or not) must be specified when ordering.*
3. Standard tip support.
4. Adjustable tip support.
5. Electro-magnetic tip support <sup>(b)</sup>.
6. Electrically lockable tip support.
7. Extension of the rigid fence at the end of arm.  
*(lower extension is not compatible with tip supports).*
8. Traffic signal lights (LED).
9. Traffic signal lights (LED) on a post attached to housing.
10. Support post for traffic signal lights.
11. LED flashers on cover.
12. Push-button box.
13. Lockable switch on housing.
14. Radio transmitter/receiver.
15. Inductive detection loop.
16. Presence detector for inductive loops.
17. Photoelectric cell
18. Photocell support post.
19. Photocell mounted on the housing.
20. Double limit switches to provide information on barrier status in the event of power failure.
21. AS1321 board for input/output extension.
22. AS1049 board for third-party traffic signal lights.
23. Thermostatic 250 or 500 W heating for operation to -25 or -45°C.
24. Raised base.
25. Paint of another RAL colour.
26. Treatment for aggressive salt environment.  
*(recommended when the barrier may be subjected to salt aggression, especially when installed less than 10 km from a sea coast); sandblasting + Alu Zinc plating 50 µm interior / 80 µm exterior + 80 µm polyzinc + 80 µm powdercoating.*
27. LEDs on arm.
28. STOP sign with a diameter of 300 mm.
29. 120 VAC – 60 Hz power supply.
30. Anti-vandalism belt, preventing the opening of doors and hood.
31. Rotating base with breaker pin in case of impact and report of housing position by dry contact.

<sup>(a)</sup> <sup>(b)</sup> mutually incompatible options.