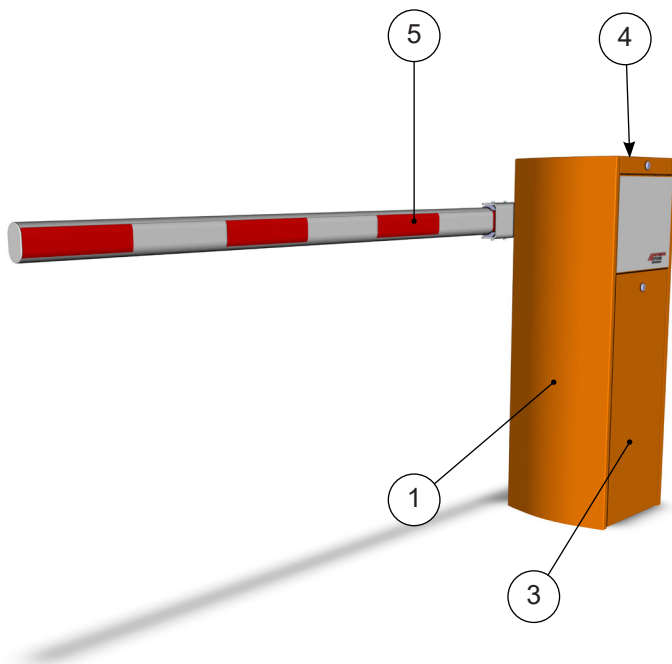


BL 229 Toll

Technical datasheet

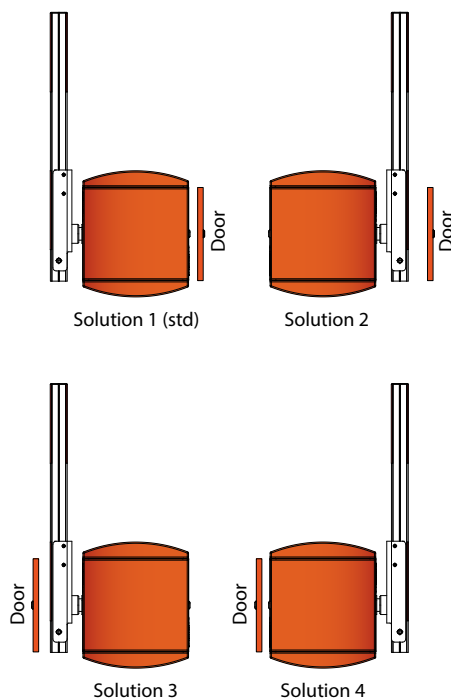
BL229Toll-FT-EN-11

Access controlled...
Future secured



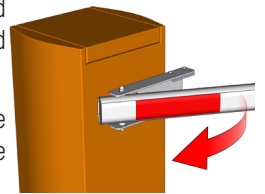
The BL 229 Toll barriers are designed for highway toll booths and meet numerous requirements in terms of performance, reliability, robustness, adaptability and reduced maintenance..

CONVENTIONS



DESCRIPTION

1. Housing made of folded and welded sheet steel, from 2 to 6 mm thick, protected by cataphoresis and two coats of structured paint (*standard color: orange RAL2000*).
2. Internal mechanical elements treated by electrogalvanisation.
3. Side door giving access to the mechanism, with security lock.
4. Removable cover, locked by key.
5. Aluminium tube boom arm, varnished white with red reflecting stripes and end-sealing.
6. Boom arm swing-off, avoiding damage to the barrier in case of impact on the boom arm.
7. Arm shaft mounted on two life-lubricated ball bearings. The protrusion of the shaft, centred on the housing side, allows it to be easily reversed from one side of the housing to the other: arm on the left or on the right of the framework housing.
8. Arm balancing by springs.
9. Electro-mechanical assembly including:
 - An asynchronous three-phase geared motor.
 - Movement transmission by crankshaft-rod device insuring mechanical locking of the boom arm in end positions.
 - Automatic barrier unlocking device in case of power failure, opening then being possible by hand.
 - Frequency converter ensuring progressive accelerations and controlled decelerations, for a vibration-free movement and enhanced protection of the mechanism.
 - Limit switches activated by leaf spring.
10. Lever for manual unlocking (*if not automatic mode set up*).
11. Control board enabling various additional commands and/or accessory options
12. Adjustable information contacts:
 - State of the barrier's position (*open or closed*),
 - State of the presence detectors,
 - Command for master-slave barriers (*movement of one barrier controlled by the other barrier*),
 - ...
13. Cadre de fixation de la barrière à noyer dans un socle en béton réalisé par le client.



STANDARD TECHNICAL SPECIFICATIONS

Electrical Power supply	Single phase 230 VAC, 50/60 Hz + Ground. <i>(Not to be connected to a floating network or to high impedance earthed industrial distribution network)</i>
Nominal power consumption	335 W <i>(at maximum speed and without options)</i>
Motor	Three-phase asynchronous 250W motor.
Gearbox	Life-lubricated worm-screw speed reduction unit.
Type of arm	Aluminium tube boom arm, with oval section of 80 x 53 mm.
Minimum operation time	from 0,6 to 1,7 seconds.
Operational temperature	Between -20 and +50°C <i>(without optional heating)</i> .
Undisturbed operation by winds up to 120 km/h.	
Free passage (L)	From 2,5 to 4 m.
MCBF <i>(mean cycles between failures)</i>	10.000.000 with normal maintenance.
Fréquence de fonctionnement	Up to 20,000 movements per day.
Net weight	83 kg <i>(Excluding arm)</i>
IP	44
Noise emitted during operation	< 70 db (A) <i>(measured at 1 m from the surface of the machinery and at a height of 1.60 m above the ground; according to ISO3744. No hearing protection needed).</i>
CE	Conform to European norms.

OPTIONAL

1. Protecta® arm in carbon fibre *(polyurethane sheath and sleeve in marine-variety fibre fabric)*. ^(*)
2. Automatic re-hinging device with Protecta® arm. ^(*)
3. Protection switches in case of door and cover opening.
4. Push button(s) box.
5. Key switch on housing.
6. Inductive loops for cars or trucks detection.
7. Presence detector for inductive loops.
8. Photo electric cell *(reopening of the arm)*.
9. Support post for photoelectric cell.
10. Cell fixed on housing.
11. Ultrasonic detector under arm *(Protective cover included)*.
12. Totaling counter (with or without reset).
13. Electronic board for Input/Output extension *(CAN)*.
14. Traffic lights *(Leds)* fixed on a post on housing.
15. Traffic lights *(Leds)*.
16. Support post for traffic lights.
17. Electronic board for third-party traffic lights control.
18. Non standard RAL colour.
19. Treatment for aggressive saline environment.
20. Raised steel base.
21. 120 VAC, 60 Hz power supply *(reduces performances)*.
22. Heating resistance 80W, for operation down to -35°C.

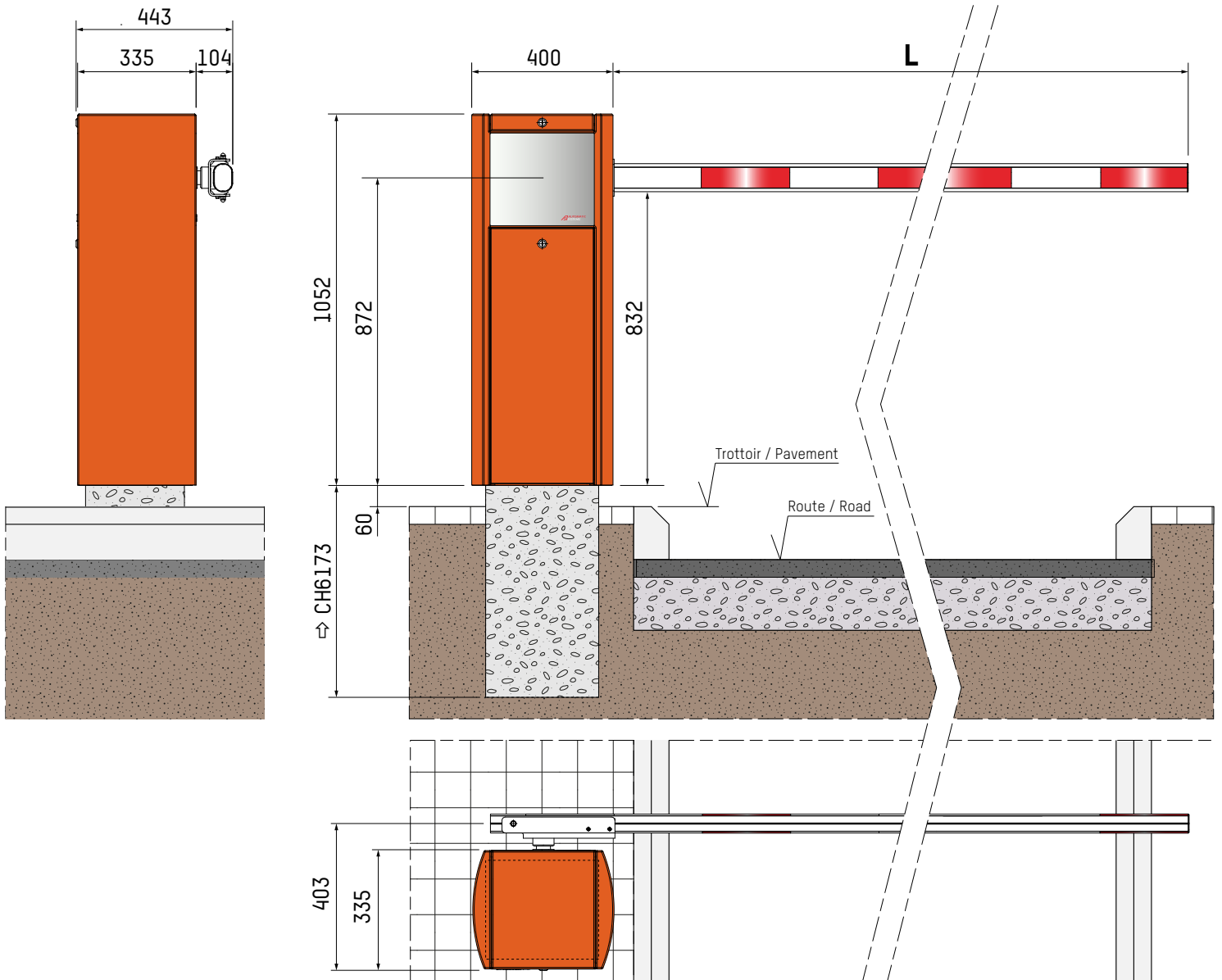
() Until 3,0 meters, maximum.*

WORKS TO BE SUPPLIED BY THE CUSTOMER

- Ground installation.
- Power supply.
- Wiring to any external devices.

Note: comply with the installation plan.

STANDARD DIMENSIONS (mm)



International & Headquarters

Automatic Systems SA

5 avenue Mercator
1300 Wavre - Belgique
Tel.: +32.(0)10.23.02.11

Email: sales.asgroup@automatic-systems.com

Belgium

Automatic Systems SA (Bruxelles & Wallonie)

5 avenue Mercator
1300 Wavre - Belgique
Tel.: +32.(0)10.23.02.11

Email: sales.be@automatic-systems.com

Automatic Systems Vlaanderen

Prins Boudewijnlaan 17 Unit 9A
2550 Kontich - Belgique
Tel.: +32.(0)3.870.59.59

Email: sales.be@automatic-systems.com

France

Automatic Systems SAS - Persan

22, rue du 8 mai 1945
95340 Persan - France
Tel.: +33.(0)1.30.28.95.50

Email: sales.fr@automatic-systems.com

Automatic Systems SAS - Suresnes

3 Rue Salomon De Rothschild
92150 Suresnes
Tel.: +33.(0)1.41.11.40.20

Email: sales.fr@automatic-systems.com

Automatic Systems SAS - Lyon

Immeuble Le Québec
685, rue Juliette Récamier
69970 Chaponnay - France
Tel.: +33.(0)1.30.28.95.50

Email: sales.fr@automatic-systems.com

Spain

Automatic Systems Española SAU

Calle Bolivar, n° 24 Portal B 2° D
28045 Madrid - España
Tel.: +34.(0)91.659.07.66

Email: sales.ca@automatic-systems.com

Automatic Systems Española SAU

Calle Vallés, 52-54 - El Prat de Llobregat
08820 Barcelona - España
Tel.: +34.(0)93.478.77.55

Great Britain

Automatic Systems Equipment UK Ltd.

Units 18 - 19 Babbage House
Northampton Science Park
Kings Park Road
Northampton
NN3 6LG - UK
Tel.: +44 (0)16.04.65.42.10

Email: sales.uk@automatic-systems.com

Canada

Automatic Systems America Inc.

4005 Matte blvd., unit D
Brossard J4Y 2P4 - Canada
Tel.: +1 450 659 07 37

Email: sales.nam@automatic-systems.com

United States

Automatic Control Systems Inc.

45 Rockefeller Plaza, suite 2000
New York City, NY 10111 - USA
Tel.: +1 516 944 94 98

E-mail: sales.nam@automatic-systems.com