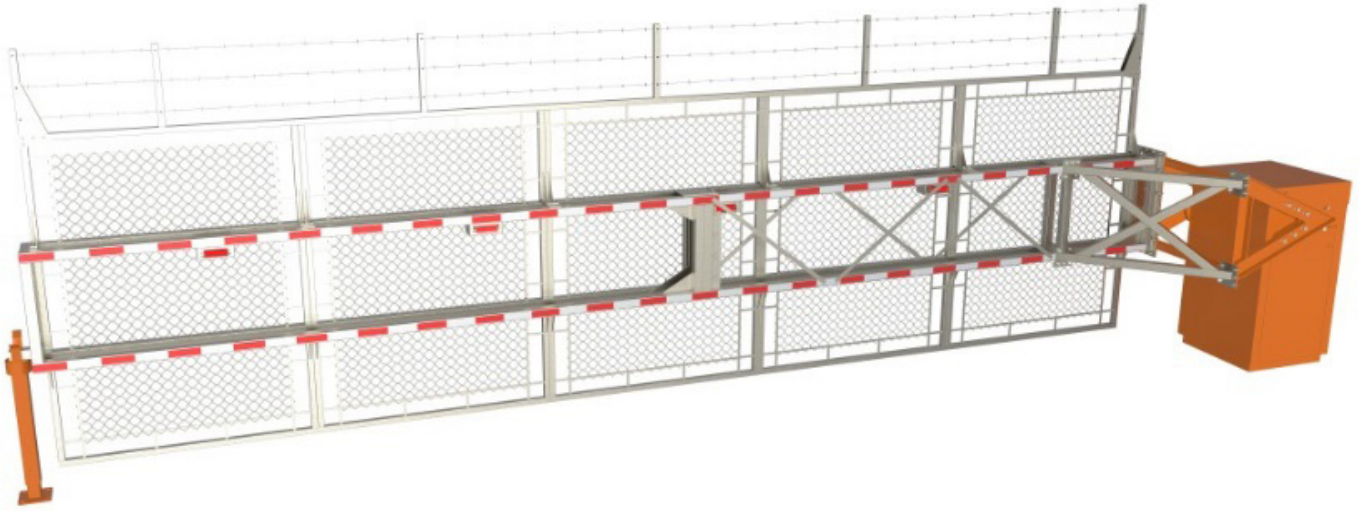


BLG 77

Datasheet

Rev. 11 • Update 02/2020



The **BLG 77** Barrier Fence is a unique barrier design that effectively prevents both vehicles and pedestrians from unauthorized access.

The **BLG 77** is typically used for medium to low traffic volume and single lane access point management.

It is most often used for asset protection in facilities that utilize full perimeter barrier protection.

The **BLG 77** is capable of supporting a structure up to 6,35 m and can fully open in 10 seconds.


DESCRIPTION

1. Cabinet housing made of a strong welded steel frame up to 19 mm. The structure is covered by a steel sheet of 2 mm thick.
2. Upper cover is 2 mm thick, folded, and welded sheets steel, security locked.
3. Keyed-lock safety access doors.
4. Rigid fence made of an aluminum welded frame and modular panels. The panels are made of aluminum frames that hold the aluminium chain link mesh.
5. Barrier fence is attached to a rotating shaft mounted on two bearings.
6. Barrier arm balancing achieved by means of integrated adjustable compression springs.
7. Electromechanical unit includes:
 - 3 phases instant-reversing 560 W motor,
 - Speed reduction gearbox, with worm screw type mechanism,
 - Crankshaft/rod device with steel abutments,

- Analog sensor combined with speed controller allowing a smooth movement of the barrier and progressive acceleration and deceleration,
 - Safety torque limiter with adjustable friction disks,
 - Positions detection insured by analog sensors,
 - Transmission between motor and gearbox, by V-belt and pulleys.
8. Integrated heater (200 W) for low temperatures, until -25 °C.
 9. Emergency crank with safety circuit breaker for manual operation of the barrier in the event of a power failure.
 10. Tip support: Electromagnetically locking tip support.
 11. Control board enabling various commands and/or accessory options:
 - Possibility of 2 built in vehicle detectors (*single or double allowing 4 detectors*),
 - Overload protection,
 - Terminal blocks for motor, detectors relays, and options,
 - Output dry contact for information on the barrier or to command other equipments,
 - Status of the barrier's position (*open or closed*),
 - Status of the presence detectors,
 - Command for master-slave barriers (*movement of one barrier controlled by the other barrier*).



STANDARD TECHNICAL CHARACTERISTICS

Power supply	230 VAC single phase for the main supply <i>(Do not connect to a floating network or to high impedance earthed industrial distribution network)</i>
Barrier arm length	BLG 77 H : L = 5.080 m - H = 3.356 m BLG 77 M : L = 5.080 m - H = 2.137 m. BLG 77 L : L = 6.350 m - H = 2.137 m. BLG 77 HL : L = 6.350 m - H = 2.746 m.
Opening time	10 secondes
Tip support	Electromagnetic locking tip support. <i>(See Tip Support data sheet)</i>
Motor	560 W Three phase
Frequency	50 Hz
Resistance of the barrier to wind <i>(even if opened)</i>	BLG 77 L & BLG 77 M : 120 km/h. BLG 77 H & BLG 77 HL : 100 km/h.
Strip heater to warm the gearbox	200 W
Gearbox type	reduction ratio: 100:1
Net weight	640 kg <i>(with barrier fence)</i>
Operation temperatures	-25°C to +50°C
Clutch	Heavy-duty
Mechanical endurance (MCBF) <i>(with recommended preventive maintenance)</i>	750.000 cycles at a rate of 100 complete cycles/hrs max with a maximum of 1000 complete cycles per day
	EC norms compliant

ANTI-CORROSION PROTECTION AND PAINT WORK

Internal mechanical parts

Protected by electroplated zinc.

Cabinet housing

Housing finish is made of two layers. First one is a coat of priming paint with a resistance of 4.000 hours to salin mist.

The second one is a coat of polyester powder structured coat with orange RAL 2000 as the standard color. This protection ensures resistance to the most severe environmental conditions.

WORK TO BE PROVIDED BY THE CUSTOMER

- Power supply.
- Anchoring to the concrete base *(fixation means not supplied, except positioning template).*

Note: Conform to installation drawing.

SAFETY

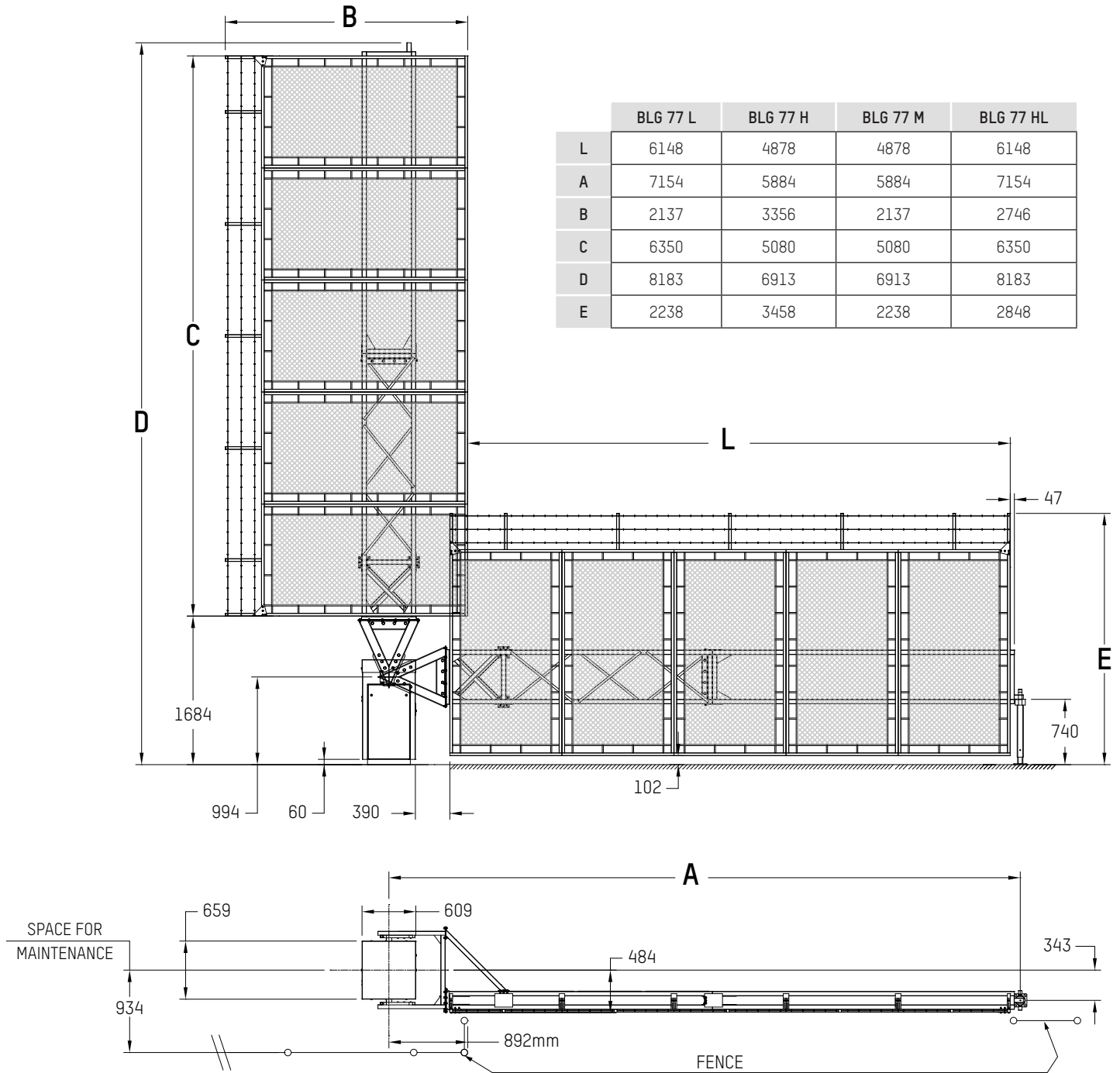
- Completed Cycle Locking: Barrier arm mechanically locked in the fully completed 90° vertical up position, and in the completed horizontal down position.
- HD Clutch: Torque limiter *(Heavy-duty)*, which protects the electromechanical drive system.
- Emergency Crank with safety circuit.
- Power Failure: when the power supply is interrupted, the gate should stay in its current position dependent on the adjustment of the clutch and the position of the gate at the time of power failure. It may continue to move slowly for a few seconds.

OPTIONS

1. Fence with impact detection *(mounted on lead bottom edge of fence).*
2. Push button(s) box.
3. Key switch on housing to open the gate.
4. Command by radio transmitter/receiver.
5. Inductive loops for cars or trucks detection.
6. Presence detector for inductive loops.
7. Photo electric cell *(automatic opening, closing after passage, safety).*
8. Cell support post.
9. Electronic board for Input/Output extension (CAN).
10. Barrier fence Leds lighting *(up to 5 sets).*
11. Traffic lights (Leds).
12. STOP traffic sign, Ø 400 mm.

Note: Adding optional attachments to the Barrier fence increases weight, therefore decreasing the MCBF and can cause damages.

STANDARD DIMENSIONS (MM)



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