

The hydraulic road blocker RSB76H was designed as an effective means of controlling access to high security areas (Impact resistance: theoretical K4 - 610KJ) such as embassies, airports, strategic factory sites, etc ...The RSB76H offers the advantage of not requiring a side column to house the drive mechanism.

The hydraulic drive is operated by an energy accumulator that can be positioned as far away as 15m. This facilitates placing several barriers end to end to control exceptionally wide access points.

An energy reserve also allows up to 3 operating cycles in case of power failure.

The RSB76H is available in 3 widths: 3000, 3500 and 4000 mm (width of the rising obstacle)

Description

1. Checker steel plate obstacle, 5 mm thickness, welded onto a frame of thick section profiles. The obstacle unit is articulated on a hinge (axle in stainless steel). The obstacle is operated by 1 heavy duty ram. Two other small rams ensure the effective locking of the obstacle in raised position, for ensuring proper resistance to an impact whatever its direction.

The position control of rams is made by waterproof inductive sensors, without any movable part likely to distort.

2. The barrier front face is formed by curved plating closed at both ends, white enamelled with chevron-shaped red reflecting stripes, which encloses the mechanism.

3. Metal frame sealed into the concrete pit.

4. Control cupboard (not presented on the illustration) of the hydraulic power generator with magneto-thermal overload protection, programmable control system with visual status display of all sensors (to be fixed to the hydraulic system. See plan available on request). The RSB76H is operated by a 3-push button box (open - stop - close)

5. Hydraulic power unit (not presented on the illustration), to be placed in a separate booth containing:

- motor unit,
- hydraulic pump,
- oil accumulator,
- oil tank,
- filter with plug and oil gauge,
- two hydraulic valves,
- manometer,
- pressure regulator and one security valve
- Oil collecting tank

6. Two-colour, unidirectional traffic light (green/red) delivered with wall mounted brackets.

Operating the RSB without traffic light is forbidden by Automatic Systems.

7. Duct linking the barrier to the power generator. The basic equipment includes 4 flexible hoses of 5m. Longer lengths are available as an option (up to 15 m)

8. Access to hydraulic rams and position sensors for maintenance is provided through the obstacle's checker steel plate.

Technical characteristics

Impact resistance : DOD K4 (it stops a 6,8 Tons vehicle at a speed of 48 km/h);calculated numerically (FEM).

Height of raised obstacle: 665mm.

Widths of obstacle: 3000, 3500 & 4000 mm

Dimensions of power unit: width: 1000 mm
height: 1200 mm
depth: 520 mm

Dimensions of control cupboard: width: 600 mm
height: 600 mm
depth: 210 mm

Power supply (power unit): 230/400V 3-phase
Power supply (cupboard): 230V single phase
Power consumption: max. 1,5 kW
Type of oil: 22 cSt
Operating temperature: -20°C to + 50°C
(Control cupboard to be kept in room between 0°C and 40°C)

Net weight of equipment: 1170 kg with a 3000 mm obstacle
1372 kg with a 3500 mm obstacle
1575 kg with a 4000 mm obstacle

Net weight (power unit): 150 kg
Net weight (control cupboard): 25 kg
Operating time: 3 secs
(depending on the oil temperature and the length of the sheaths between the group and the obstacle)

Maximum load allowed: 20 T per axle

Options

- Additional two-colour traffic light.
- Post to install traffic light(s) (standard AS model)
- Additional push button box.
- Additional hydraulic duct.
- Vehicle presence detector with inductive loop.
- Safety cell Transmitter / Receiver.
- UPS (emergency power supply for the control logic).
- Manual pump

Work to be provided by the customer

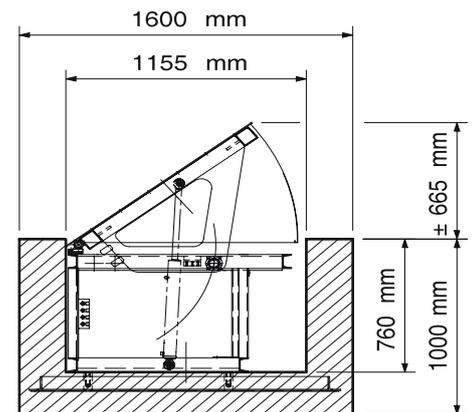
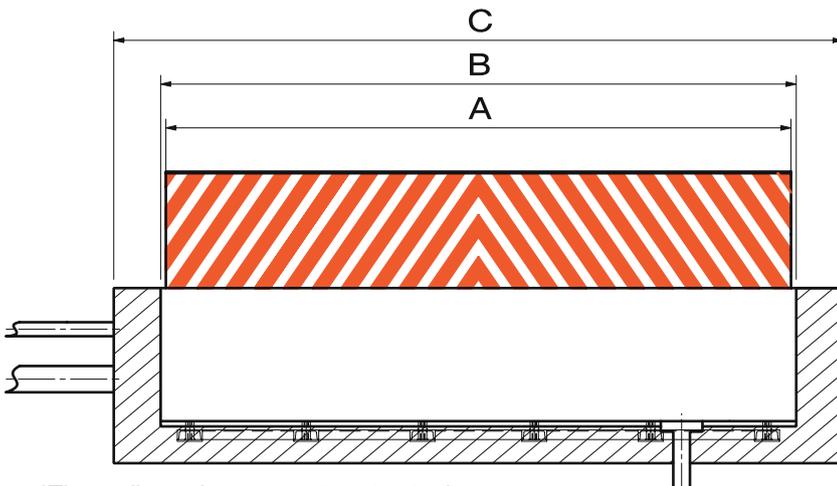
- 230/400V 3-phase power supply (10A + N + GND) to the power generator.
- 230V single phase power supply to the control cupboard.
- Electrical connection wiring between the control cupboard, the traffic light(s) and the position sensors.
- Reinforced concrete pit with rainwater drainage and sealing template installation (3)
- Installation of hydraulic ducts between the pit and the power generator unit.

Overall dimensions of pit by width of obstacle

Dimension "A"	3000 mm	3500 mm	4000 mm
Dimension "B"	3050 mm	3550 mm	4050 mm
Dimension "C"	3500 mm	4000 mm	4500 mm

Dimensions*

Foundation



*These dimensions are not contractual.

Our dealer



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With a constant view of adopting the latest technological developments, Automatic Systems reserves the right to amend the information above, at any time.