



TECHNICAL FEATURES AND SPECIFICATIONS OF HOM AUTOMATIC ROAD BLOCKER

Road Blocker is a below ground level heavy assembly used for controlling vehicular traffic and total protection against any forceful entry.

Road Block shall consist of a Road Block, Hydraulic Power System and Microprocessor Based Control Panel. The Road Block System shall be capable of operating Road Blocks independently.

System Configuration:

ROAD BLOCK CONSTRUCTION:

1. Road block shall be a below ground assembly containing heavy gauge I-section and steel plates. I-section structure absorb the impact and efficiently distribute the force of impact to the surrounding reinforced concrete, thus the system is work even after impact. The system capable of being raised to above ground position within 3 to 6 seconds.
2. The height of structure above the surface of road block shall be 600mm. In raised position the blocker shall be hydraulically locked with antileak device.
3. Depth of installation shall be less than 800mm so as not disturb underground cables and other services.
4. System shall be able to bear axle load of 30 tons of moving vehicle.
5. Hydraulic Power Unit shall be placed in a separate weather resistant enclosure. The design shall provide easy access to the HPU for maintenance and emergency operation of the hydraulic system. Enclosure shall be provided with a corrosion resistant coating.
6. A sump pump shall be supplied to drain water collected in the road block foundation (optional) or water drainage provided by end user.
7. Foundation and underside of the road block shall have asbestos free coating for corrosion protection. Face plate shall be painted Black & Yellow.

HYDRAULIC POWER UNIT:

8. Hydraulic Power Unit shall consists of an electrically driven hydraulic pump, which shall pressurize a high pressure manifold connected to hydraulic accumulator. Electrically actuated valves shall be installed on the manifold to allow oil to move hydraulic piston up and down. A hand pump shall be provided to allow road block to be raised manually in the event of a prolonged power interruption.

CONTROL PANEL:

9. Microprocessor based control panel shall control the electro-hydraulic operations. It shall be capable of receiving signals from variety of activating devices such as push button, remote control, proximity cards, optical beam sensors, loop detectors and biometrics etc.

10. Microprocessor based control panel shall be capable of integrating the Road Blocker with Boom Barrier so that the two can be activated with a single activating device in a synchronized manner.

11. Microprocessor based control panel shall be able to communicate with crash pad mounted on Barrier Boom so that if the boom is hit by vehicle the Road Block should come in raised position automatically.

12. Push button and remote control unit shall be provided as an inbuilt activating device.

13. Signal lights shall be provided to alert vehicle drivers of Road Block Position (optional).

Technical Data:

Power Supply	220V , Single Phase, 50 Hz
Height of Road Blocker	600mm
Width of Road Blocker	840mm
Length of Road Blocker	3650mm
Mechanism Type	Hydraulic
Motor	Single Phase, 1440rpm, 3HP
Power Consumption	2.2kw
Operating Temperature	-20 to 60 degree centigrade
Opening Time	3- 6 seconds

*All dimensions and weight are approximate.

**HOM's continuous development program may bring specification changes without prior notice".