



## **TECHNICAL FEATURES AND SPECIFICATIONS OF HOM AUTOMATIC BOLLARD**

Bollard is a below ground level heavy assembly used for controlling vehicular traffic and total protection against any forceful entry as well. Bollard shall consist of 10.5” dia of Stainless steel with 4mm wall thickness, Hydraulic Power System and Microprocessor Based Control Panel. The Bollard System shall be capable of operating 2/3 bollards independently.

### **System Configuration:**

1. Bollard shall be a below ground assembly containing heavy gauge stainless steel round pipe, I-section and steel plates. I-section structure absorb the impact and efficiently distribute the force of impact to the surrounding reinforced concrete. The system capable of being raised to above ground position within 3 to 6 seconds.
2. The height of structure above the surface of ground shall be 915mm. In raised position the bollard shall be hydraulically locked with antileak device.
3. System shall be able to bear axle load of 30 tons of moving vehicle.
4. 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.
5. A sump pump shall be supplied to drain water collected in the bollard foundation (optional) or water drainage provided by end user.
6. Foundation and underside of the bollard shall have asbestos free coating for corrosion protection.

### **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 bollard 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. Push button and remote control unit shall be provided as an inbuilt activating device.

11. Signal lights shall be provided to alert vehicle drivers of bollard Position (optional).

### **Technical Data:**

<b>Power Supply</b>	<b>220V , Single Phase, 50 Hz</b>
<b>Height of Bollard</b>	<b>915mm</b>
<b>Diameter of Bollard</b>	<b>275mm</b>
<b>Mechanism Type</b>	<b>Hydraulic</b>
<b>Motor</b>	<b>Single Phase, 1440rpm, 3HP</b>
<b>Power Consumption</b>	<b>3kw</b>
<b>Operating Temperature</b>	<b>-20 to 60 degree centigrade</b>
<b>Opening Time</b>	<b>3-6 seconds</b>

\*All dimensions and weight are approximate.

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