Better Security
Better Manpower Utilization

Automatic Gate and Door Access Systems
HOM Automation Pvt. Ltd. is a pioneer company in the field of Gates and Doors Automation in India. It has been involved in manufacturing and marketing range of automatic gate access systems since 1993. HOM prides itself in offering world-class products at unmatched prices with professional after sale services. Our clientele comprises well-known companies in Security industry, system integrators and prestigious end-users from MNCs, to government and semi-government organizations.

HOM Automatic Barriers, Gates and Doors Systems, Turnstiles, Flap Barriers and Road blocks have been professionally designed and are manufactured under strict supervision and quality control to give them an edge in the global competition. Entire range of systems incorporates standard international features and combinability with variety of activating devices. Manufacturing facility employs high-tech machines such as CNC Turret Punch, CNC bending machine, Metal Inert Gas Welding heavy hydraulic presses etc. Further as a certified ISO 9001:2000 company, HOM Automation assures that quality systems are implemented in all stages of product development, production, shipping and support operations.

HOM Automatic Gates & Door Access Systems when installed at existing gates and doors not only provide with years of efficient and reliable control of vehicular and individual access to your premises but also add up to the aesthetics of the surrounding. Options ranging from Semi-automatic to fully automatic and computerized functionality of our systems offer better security and better manpower utilization. In addition, our commitment to quality coupled with years of field experience and know-how acquired through R&D puts HOM in a unique position to offer customized solutions and client specific systems.
Automatic Barriers

HOM Automatic Barriers offer efficient security at the exit and the entry points of Factories, Office Complexes, Condominiums, Parking lots, Toll tax plazas or any road-way entry where medium to heavy traffic is expected.

- Designed for heavy-duty operation with sleek and modern looks. Octagonal boom profile offers better visibility and aesthetics from different angles.

- An inbuilt anti-crush safety device suspends the motion of the boom, should it meet any obstruction. Optional beam sensor provides further protection to vehicles.
• Dual speed and electronic braking of the barrier optimize time and maximize safety. These unique features ensure quick opening and closing of the boom with soft landing. Duration of fast and slow speeds is programmed at the time of installation according to the length of the boom and the frequency of traffic expected.

• Entire system is powered by 24 Volt DC to avoid electricution and to integrate barrier with other peripheral safety devices such as access control system optical beam sensor etc. for greater flexibility and added safety.

• The barrier is activated either by a single touch push button or remote control. However its electronic control panel is designed to accept signals from various optional controls and safety accessories such as Beam sensor, Smart card reader and Loop detectors etc.

Parking & ETC Management System

HOM offers products and systems for efficient and accurate electronic toll tax collection (ETC) and car parking management.

• Fast Speed Automatic Barriers
• Vehicle identification system
• Computers / Software
• Installations, Training and Technical Support.

Technical Specifications: Barriers

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Volts AC</th>
<th>Supply Volts DC</th>
<th>Boom length</th>
<th>Opening time</th>
</tr>
</thead>
<tbody>
<tr>
<td>HB – 1000</td>
<td>200 – 240</td>
<td>12 – 24</td>
<td>Up to 8 ft.</td>
<td>1.5 – 4 sec.</td>
</tr>
</tbody>
</table>
Applications:
Designed to prevent forced vehicle entries, vehicle ramming and vehicle based terrorist attack. These barriers are ideally suited for military installations, oil refineries, power plants, nuclear facilities, embassies and other security sensitive sites.

Boom:
Boom is fabricated from 2mm thick square MS pipe of 75mm x 75mm. The length of the boom is customized to match the site requirement (between 3m and 6m). The boom is crossbar in design (ladder shape) as shown in drawing.

Operating mechanism:
Electromechanical drive unit is designed for heavy-duty operation. All mechanical components are incapsulated in a weather resistant water tight capsule filled with oil for silent and maintenance free operation. Option is available for Electro-hydraulic mechanism.

Activating Devices:
The Barrier can be activated either by push button or remote control. Microprocessor based control panel is capable of integrating with loop detectors, optical beam sensors, smart card readers and biometric readers. The barrier can be used individually or in combination with tyre killer.

Safety Devices:
In built optical beam sensor acts as anti crash device. This avoids boom accidentally touching vehicle or an individual. Boom is fitted with warning lights apart from high-density retro-reflective tapes.

Impact Force Management:
The steel boom rests on locking type stands, placed at each end of the boom. Boom stands are made of heavy steel pipes and are embedded in reinforced concrete. When the boom is hit by a vehicle, the impact energy is efficiently transferred to the reinforced foundation through the boom rest.

Body:
The body casework is fabricated from 14-gauge MS galvanized sheet. The dimension of the body box is 1120mm x 510mm x 330mm.
Turnstiles

HOM turnstile series offers maximum security control at an affordable price. Model HT-1000 is a waist height, tripod turnstile designed for reception areas, where low profile, rapid access control is a requirement. Model HT-2000 is a 7 foot high, full security turnstile, designed to provide access control to unsupervised installations or areas where strict security is required.

Features

• Provide reliable, quick and safe entrance to authorised employees and visitors.
• Rugged construction ensures trouble free performance and durability.
• Modular design offers to meet client-specific requirements in both mechanical and electrical models.
• Provides either unidirectional or bi-directional movement with fail-safe or fail lock option. Positive action lock prevents two passes at one time.
• Low voltage, 24 VDC operating system is capable of accepting release signal from variety of optional devices, such as magnetic card reader, push button, photocells etc.
• Cabinet is made of heavy gauge MS sheet with powder coated finish or stainless steel with satin polish. Mechanical hub and three barrier arms are made of stainless steel.

Technical Characteristics of Turnstiles

<table>
<thead>
<tr>
<th>Waist Height Tripod Turnstile HT-1000</th>
<th>Full Height Turnstile HT-2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>240V 50 Hz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>75 W</td>
</tr>
<tr>
<td>Control Circuit</td>
<td>24V DC</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>Continuous</td>
</tr>
<tr>
<td>Height</td>
<td>990 mm</td>
</tr>
<tr>
<td>Width</td>
<td>245 mm</td>
</tr>
<tr>
<td>Length</td>
<td>737 mm</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
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<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

All dimensions are approximate. Subject to change without notice.
Retractable Flap Barriers

HOM Automatic Flap Barriers have been designed to provide quick and controlled access to restricted areas. These can be integrated either with card access systems or ticketing system to ensure quick and automatic clearance while keeping accurate entrance records. Flap Barriers are ideally suited for metro railways, office complexes, banks, amusement parks, stadiums etc.

FEATURES

• Motorized, electromechanical Drive unit. Silent and maintenance free.

• Microprocessor based Control Panel provides precise movement and positioning of flaps.

• Presence Sensing is achieved by an array of Infrared Optical Sensors.

• MS Powder Coated or Stainless Steel Body.

Operational Logic

Microprocessor based control panel and seven sets of infrared optical beam sensors are employed to achieve the followings:

Directional Control: Does not allow a person to pass from opposite direction. For example, if a person shows card from the entry side and another person from the opposite side tries to exit than the flaps will immediately close, thus blocking the passage.

Prevents Tail Gating: Two persons trying to pass the barrier with one card will be detected. If tail gating is detected the flaps are closed immediately and a soft alarm is sounded for a few seconds to draw the attention of guard or receptionist.

Anti Crash sensors do not allow flaps to close on a patron.

Indicator Lights: Green arrow is always ON indicating the flap barrier is ready to use. A red X comes on with a light beep if the card or finger prints are not accepted by the reader; flaps in this case will remain close.

<table>
<thead>
<tr>
<th>Physical Dimensions</th>
<th>Technical Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1180 mm</td>
</tr>
<tr>
<td>Height</td>
<td>1000 mm</td>
</tr>
<tr>
<td>Width</td>
<td>325 mm</td>
</tr>
<tr>
<td>Clear Walkway</td>
<td>600 mm</td>
</tr>
</tbody>
</table>
HOM Automatic Spike Road Blocks (Tyre Killers) provide effective road blockage against forceful entry of a vehicle at critical security points such as Military Bases, Oil Refineries, power plants, Airports, Embassies etc.

Spikes are rolled out within a few seconds at the touch of remote control or push button. If attempted to drive through at any speed, the locked spikes will puncture the tyres. In case of axle road block spikes will also destroy the suspension and axle, disabling vehicle on the spot.

For added safety and security Spike Road Blocks can be interlocked with HOM Automatic Barriers to work in unison with single activation device. Thus Spikes will remain locked in raised position as long as barrier is kept close. The moment barrier is opened by an authorized person spikes will roll down.

The automatic operation is also possible through a contact crash pad attached to the boom of the barrier installed in front of the tyre killer. If a vehicle crashes against the boom barrier, the road block will automatically raise into blocking position. Microprocessor based control panel is capable of accepting optional safety devices such as remote control, smart card reader, optical beam sensors, loop detectors, biometric devices etc.
HOM Automation offers automatic road blocks in three different models:

**Axle Road Block**
- Disables vehicle on the spot by destroying tyres, suspension and axle.
- Compact unit ready to install. Quick opening and closing time (3-5 sec.)
- Highly reliable electro hydraulic mechanism.
- Shallow installation depth 600 mm so as not to disturb underground cables.
- Heavy duty central shaft with closely spaced spikes and base supports designed to dissipate the force of impact to reinforced concrete.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Axle RB (in mm)</th>
<th>Flat RB (in mm)</th>
<th>Hump RB (in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height of Spike above block</td>
<td>460</td>
<td>110</td>
<td>112</td>
</tr>
<tr>
<td>Spike dimension</td>
<td>550 x 150 x 25</td>
<td>155 x 25</td>
<td>162 x 25</td>
</tr>
<tr>
<td>Width of the block</td>
<td>890</td>
<td>635</td>
<td>1070</td>
</tr>
<tr>
<td>Length of the block</td>
<td>3000-6000</td>
<td>3000-6000</td>
<td>3000-6000</td>
</tr>
<tr>
<td>Thickness of Strip</td>
<td>25</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>Spike to Spike distance</td>
<td>90</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

**Flat Spike Road Block**
- Inconspicuous & flat with road surface to provide smooth entry & exit to vehicles.
- Electromechanical Drive Unit. Waterproof, silent and maintenance free.
- Quick opening and closing time (approximately 2 sec).
- Steel structure is capable of with-standing 25 tones vehicle load.

**Hump Spike Road Block**
- Hump acts as a mild speed breaker as well as provides housing to spikes.
- Entire unit is installed on road surface therefore no digging is required
- Electromechanical drive unit, Waterproof, silent & maintenance free.
- Quick opening & closing time (Approximately 2 sec.)
- Steel structure is capable of withstanding 25 tones vehicle load.

HOM’s continuous development program may bring specification changes without prior notice.
Gate Systems

Automatic Swing Gate Systems

- Suitable to install in existing Swing Gates.
- Easily operated by means of a remote control from inside your car or push button from inside the guard-room.
- Rotary Drive units silent, reliable and maintenance free.
- An inbuilt clutch system suspends the motion of the gate, should it come in contact with child or car.
- A special electrical lock offers the convenience of automatic locking of gate.
- In case of power failure, the lock may be manually opened with the help of a special passkey.
- Microprocessor based control panel is capable of communicating with optional devices such as photo sensors, card readers etc.

Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SWG - 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Power supply</td>
<td>220 V 50 Hz</td>
</tr>
<tr>
<td>Motor Voltage</td>
<td>12 – 24 V DC</td>
</tr>
<tr>
<td>Opening / Closing time</td>
<td>8 – 20 seconds</td>
</tr>
<tr>
<td>Max. Gate Weight</td>
<td>1000 Kg</td>
</tr>
<tr>
<td>Transmitter Range</td>
<td>50 ft.</td>
</tr>
</tbody>
</table>

Automatic Sliding Glass Door System

Hom Automatic Sliding Door Systems are engineered to ensure safe and elegant entry to modern offices, shopping complexes, Airports and other architectural building designs.

Efficient performance, high degree of reliability, advance safety and security features are part of this cost effective system.

- Microprocessor based control panel.
- Heavy duty, maintenance free DC Motor.
- Activation through motion sensor, push button or remote devices.
- Systems available in two models depending upon door size.
HOM Automatic Sliding Gate System is suited for industrial gates and heavy-duty applications. It consists of an oil bath motor reduction gear with worm gear on ball bearings to assure extreme reliability and long lasting operation.

- An adjustable mechanical clutch delivers required thrust and provides quiet operation to the gate.
- Irreversible electromechanical units keeps the gate securely locked while a special passkey provides release for manual operation during power failure.
- Timed electronic system plus built-in switches offer precise adjustment and added safety to electrical motor. Electronic control panel is designed to accept various controls and safety accessories such as Optical Beam Sensors, Magnetic Card & Remote Control etc. (Optional).

### Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SLD-G 1000</th>
<th>SLD-G 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>220 V 50Hz</td>
<td>220 V 50Hz</td>
</tr>
<tr>
<td>Rated Power</td>
<td>370 W</td>
<td>480 W</td>
</tr>
<tr>
<td>Rated Current</td>
<td>1.7 A</td>
<td>2.2 A</td>
</tr>
<tr>
<td>Speed</td>
<td>0.8 feet/sec.</td>
<td>1 feet/sec.</td>
</tr>
<tr>
<td>Gate Weight</td>
<td>up to 1000 kg</td>
<td>up to 2000 kg</td>
</tr>
<tr>
<td>Motor</td>
<td>0.5 hp AC (1400 rpm)</td>
<td>1.0 hp AC (1400 rpm)</td>
</tr>
</tbody>
</table>

### Automatic Rolling Shutters

- All types of new or existing conventional shutters can be easily motorized.
- Microprocessor based control panel allows shutter to be operated by various activating devices, such as push button, key switch, remote control, proxymity card readers etc.
- Easy manual operation in case of power failure.
- Various models to handle loads ranging from 200 kg to 400 kg.
Hom’s continuous development programme may bring specification changes without prior notice.

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