



ROAD BLOCKER BARRIERS

GSR Series

GateSet GSR Series High Impact Rated Hydraulic Road Blockers are designed to meet ASTM M50 / IWA14-1 / PAS68 level impact resistance. With its powerful hydraulic unit Gate-Set GSR Series Road Blockers provide reliable solutions for securing sensitive areas against ram attacks. Suitable for high frequency heavy duty operation, GSR Series Road Blockers provide solid protection in areas that require high security, while maintaining its aesthetic line thanks to its continuously evolving modern design.

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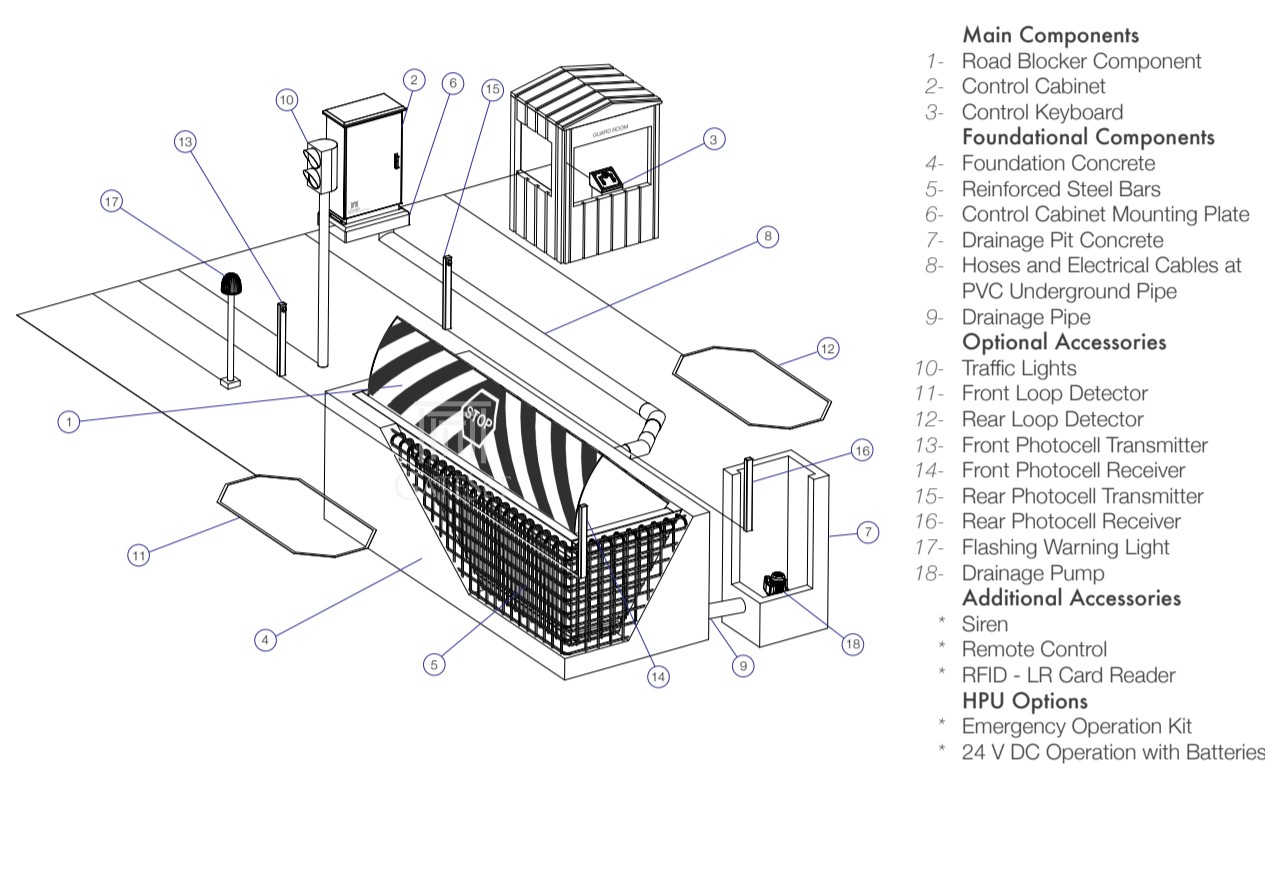
Usage Areas

- Access Control
- Military Sites
- Government Offices
- Police Headquarters
- Research Centers
- Embassies
- Airports
- Industrial Areas

Featured Characteristics

- Heavy Gauge Structure**
Road Blocker Structure is made out of heavy gauge material. Underground case is 4mm 100x100 square profile. Inside the blocking wedge, 4 bars with 100 mm thick nails presses the case at up and down position, enhancing impact resistance and axle load bearing capacity.
- Heavy Duty Operation**
Designed for intense industrial usage with 100% Duty Cycle, by powerful HPU, strong wedge and durable hydraulic lift piston. With its 4 - 5.5 kW powerful motor GSR Series are capable to complete up or down movement in 3-4 seconds without any limitation of daily usage.
- Speed Control & Position Sensing**
GSR Series possess two advanced features which extend the usage life of the system: Position Detection with weather proof proximity limit sensors which immediately stops the motor operation at limit points. Descending Speed at Closing and Opening Points which provides a silent operation.
- High Impact Resistance**
GSR Series Blockers are designed by using the cutting-edge manufacturing computer technology to meet K12 level of DOS SD-STD-02.01 standards. Computer aided element tests have proved that GSR Series withstands an impact force of 7,500 kg @ 80 km/h.
- Flexible and Reliable**
Ease of integration with all access control equipment through its Schneider SR2 A201BD PLC unit which possesses 12 Inputs and 8 Outputs. All electronic equipment are Schneider branded with the highest reliability available in the market.

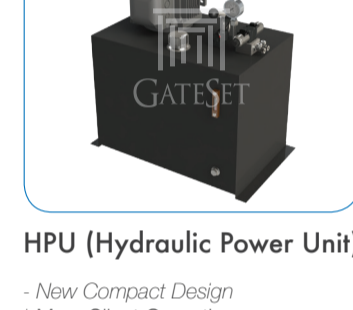
System Components and Accessories



- Main Components**
 - 1- Road Blocker Component
 - 2- Control Cabinet
 - 3- Control Keyboard
- Foundational Components**
 - 4- Foundation Concrete
 - 5- Reinforced Steel Bars
 - 6- Control Cabinet Mounting Plate
 - 7- Drainage Pit Concrete
 - 8- Hoses and Electrical Cables at PVC Underground Pipe
 - 9- Drainage Pipe
- Optional Accessories**
 - 10- Traffic Lights
 - 11- Front Loop Detector
 - 12- Rear Loop Detector
 - 13- Front PhotoCell Transmitter
 - 14- Front PhotoCell Receiver
 - 15- Rear PhotoCell Transmitter
 - 16- Rear PhotoCell Receiver
 - 17- Flashing Warning Light
 - 18- Drainage Pump
- Additional Accessories**
 - * Siren
 - * Remote Control
 - * RFID - LR Card Reader
 - HPU Options**
 - * Emergency Operation Kit
 - * 24 V DC Operation with Batteries

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Control Cabinet



HPU (Hydraulic Power Unit)

- New Compact Design
- * More Silent Operation
- * Heavy Duty with 5.5 kW Motor
- * All Equipment are European and Turkish Made
- * Galtech Hydraulic Pump (Italian)
- * PZB Manual Pump (Italian)
- * Ease of Access to All Equipment



Control Cabinet

- New Compact Design
- * 2 mm Steel Thickness
- * Extra Strong Anti-Rust Finishing
- * Weather Resistant Sealing
- * Dust Filtered Air Cooler
- * Operation Testing Panel on Cover
- * Ease of Access - Single Cover
- * Ease of Installation - Mounting Base



ECU (Electronic Control Unit)

- New Compact Design
- * Operation Control with Schneider PLC
- * All Equipment are European Made
- * Electrical Safety
- * Multilevel Overcurrent Protection
- * Operation Testing Panel on Cover
- * Ease of Access - High Positioning

HPU and ECU Options



EOK (Emergency Operation Kit)

- Optional Feature
- * High Pressured Accumulator at HPU
- * Panic Button at Remote Keyboard
- * 1.5 Second Raising Time in Case of Emergency



Control Cabinet

- Optional Features
- * HPU 2400
- * EOK
- * HPU2400 + EOK



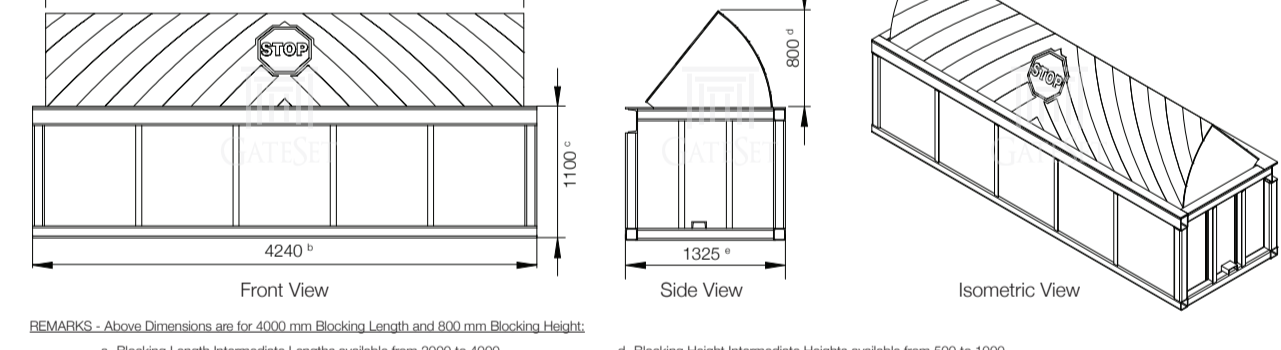
HPU 2400 KIT

- Optional Feature
- * Spare 24 V DC Motor and Pump at HPU
- * 2x 12 V 50 mAh Batteries at ECU
- * Meanwell (Canadian) Battery Charger Circuit at ECU
- * 10 Complete Cycles without Electricity
- * Seamless Auto Switch between AC and DC Power

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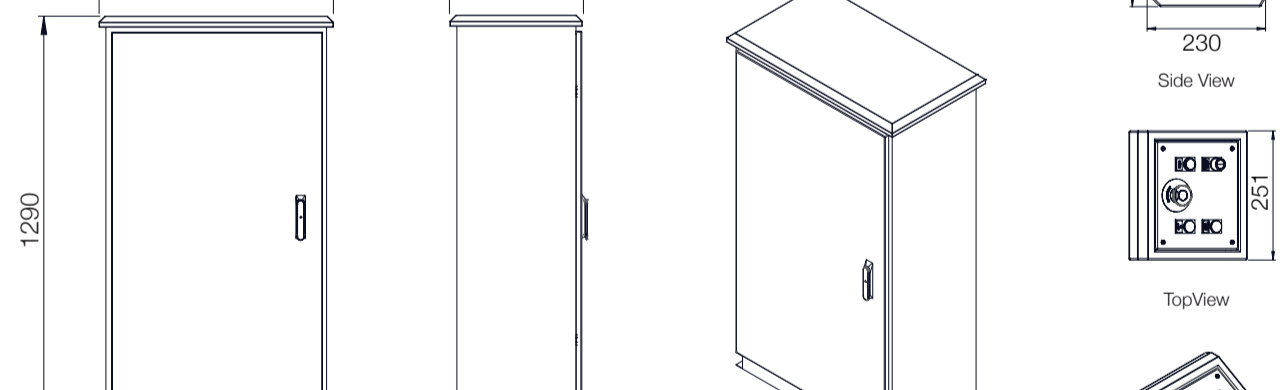
Drawings and Dimensions*

Blocker



REMARKS: * Above Dimensions are for 4000 mm Blocking Length and 800 mm Blocking Height.
 a- Blocking Length Intermediate Lengths available from 2000 to 4000
 b- Total Case Length Typically Blocking Length + 240
 c- Case Depth Typical for 800 mm Blocking Height
 (Changes Depending on Custom Blocking Heights)
 d- Blocking Height Intermediate Heights available from 500 to 1000
 e- Case Width Typical for 800 mm Blocking Height
 (Changes Depending on Custom Blocking Heights)

Cabinet & Keyboard



* Dimensions are given for 4000 mm Blocking Width, 800 mm Obstacle Height and Control Cabinet with Standard Configuration. Subject to change depending on design or project needs without prior notice.

Technical Specifications

| BLOCKER PHYSICAL CHARACTERISTICS | |
|---|---|
| BLOCKER LENGTH | Intermediate Lengths from 2000 mm to 6000 mm |
| OBSTACLE HEIGHT | 800 mm (standard) . Intermediate Heights are provided from 500 mm to 1000 mm |
| CASE DIMENSIONS | Case Width: 1325 mm, Case Depth: 1100 mm (for standard 800 mm Obstacle Height) |
| BLOCKER UNDERGROUND CASE | Heavy Gauge 100x100x4 Square Profiles, 120 mm NPU Steel Horizontal Bottom Bar, Supported by vertical 100 mm NPI Steel Beams, Covered from all sides with 2 mm thick Steel Plates |
| BLOCKING WEDGE | Heavy Gauge 100x100x4 Square Profiles, 6 mm Thick Front Circu-lar Plate, Supported by A Shaped Supports made out of 100 mm NPI Steel, Steel Top Plate Thickness 12 mm |
| TREATMENT | Two Component Surface Tolerant Epoxy Mastic Coating for Corrosion Protection (Jotamastic) and Painted with Polyester Outdoor Paint, Black Finishing with Yellow Stripes on the Circular Front Steel and Top Plate |
| OPERATIONAL CHARACTERISTICS | |
| DRIVE | Heavy Duty Hydraulic |
| DRIVE POWER | Min 10 Bars / Max 120 Bars |
| LIFT PISTON VARIATIONS | 1 Heavy Duty Lifting Piston for Blocking Lengths from 2000 mm up to 3000 mm, 2 Heavy Duty Lifting Pistons for Blocking Lengths from 3000 mm to 6000 mm |
| RIISING / FALLING TIME | 3-4 Seconds (Adjustable) |
| SPEED CONTROL | Slowing Down at Opening and Closing Limit Points |
| WORKING FREQUENCY | 300+ Cycles/Hour |
| EMERGENCY OPERATION | Rising in 1.5 Seconds (with optional EOK Kit) |
| POWER OUTAGE | Capable to make up to 10 Complete Cycles without Electricity (with optional HPU2400 Kit) |
| POSITION DETECTION | 2 Weather Proof Proximity Limit Sensors |
| MANUAL OPERATION | Ascending and Descending with Manual Hand Pump |
| CONTROL CABINET PHYSICAL CHARACTERISTICS | |
| CONTROL CABINET | 2 mm Thick Steel, Electrostatic Thermal Painting for Anti-Corrosion Resistance |
| CABINET DIMENSIONS | Feature: Standard +HPU2400 +EOK +HPU2400+EOK |
| (may vary in accordance with project specific features) | Width: 390 mm 510 mm 510 mm 510 mm |
| | Length: 750 mm 1250 mm 1310 mm 1310 mm |
| | Height: 1290 mm 1050 mm 1250 mm 1250 mm |
| ELECTRICAL CHARACTERISTICS | |
| ELECTRIC MOTOR | 380 V AC / 50-60 Hz. 4 to 5.5 kW. |
| CONTROL PANEL | Schneider SR2 A201BD PLC, Integration with Various Systems |
| TEST PANEL | Integrated Test Panel on Electric Cabin Cover, Phase Indicators |
| RESISTANCE CHARACTERISTICS | |
| IMPACT RESISTANCE | 7,500 kg at 80 km/h |
| AXLE LOAD RESISTANCE | 35 Tons |
| PROTECTION CLASS | IP 65 |
| OPERATING TEMPERATURE | + 70 °C / - 15 °C |
| EQUIPMENT AND ACCESSORIES | |
| HYDRAULIC PIPES | 18/1.5 Connector - 1/2 Radius, 350 Bars Max Pressure, 10 m Pipe Length (standard) |
| SAFETY EQUIPMENT | Emergency Stop Button (standard), Front and Rear Loop Sensor (optional) |
| STANDARD ACCESSORIES | Remote Control Keyboard (wired), Test Unit on ECU Panel, Oil Level and Temperature Indicator, Manometer |
| OPTIONAL ACCESSORIES | Traffic Lights, Flashing Light, Siren, Warning Sign, Drainage Pump, Touchscreen Control Keyboard |
| CERTIFICATIONS AND WARRANTY | |
| CERTIFICATIONS | ISO 9001:2008, CE |
| WARRANTY | 2 Years |