

# TPR-SL 3090

## SHALLOW MOUNT ROAD BLOCKER



### GENERAL INFORMATION

TPR-SL Shallow Mount Road Blockers are unique and reliable Hostile Vehicle Mitigation (HVM) products that provide high level security protection against hostile vehicle attacks.

Like conventional road blockers, TPR-SL3090 Shallow Mount Road Blockers provide safe access control, in case of a vehicle attack, they prevent the vehicle from moving by damaging the wheels, front and lower parts of the heavy vehicle and provide effective protection and security by disabling it.

The system is capable of completing lifting and lowering movement in 3 - 4 seconds without any limitation of usage.

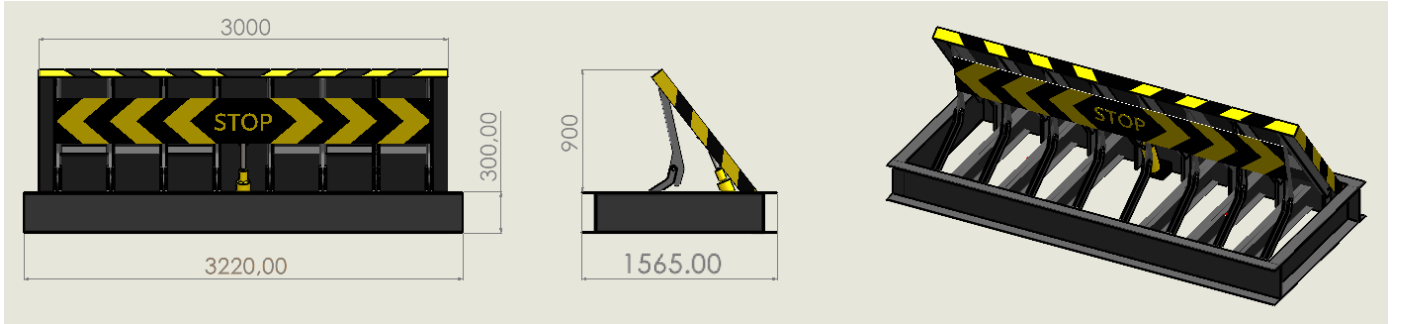
For the installation of Shallow Mount Road Blockers, there is no need to dig the ground deeper than 400 mm. Therefore, it is a suitable solution in situations where it is not possible to dig deep into the ground compared to conventional standard road blockers.

### MAIN CHARACTERISTICS

- Robust construction of TPR-SL series Shallow Mount Road Blockers are designed for heavy duty operations and made out of heavy gauge materials,
- It has been proven that it has high impact resistance that meets the K8 level of DOS SD-STD-02.01 standards with the computerized finite element tests.
- Easy to install and maintain by its shallow mount design which provides more advantages compared to conventional road blockers,
- Installation in places with construction constraints,
- Position sensing and speed control with proximity limit sensors which immediately stop the motor operation at limit points. Slowing down at closing and opening limit points which provides a silent and low noise operation
- The drive unit is hydraulic but in case of a power failure or in an emergency situation, the system can be controlled manually with the help of manual hand pump,
- Can be integrated with other access control devices easily.

### TECHNICAL SPECIFICATIONS

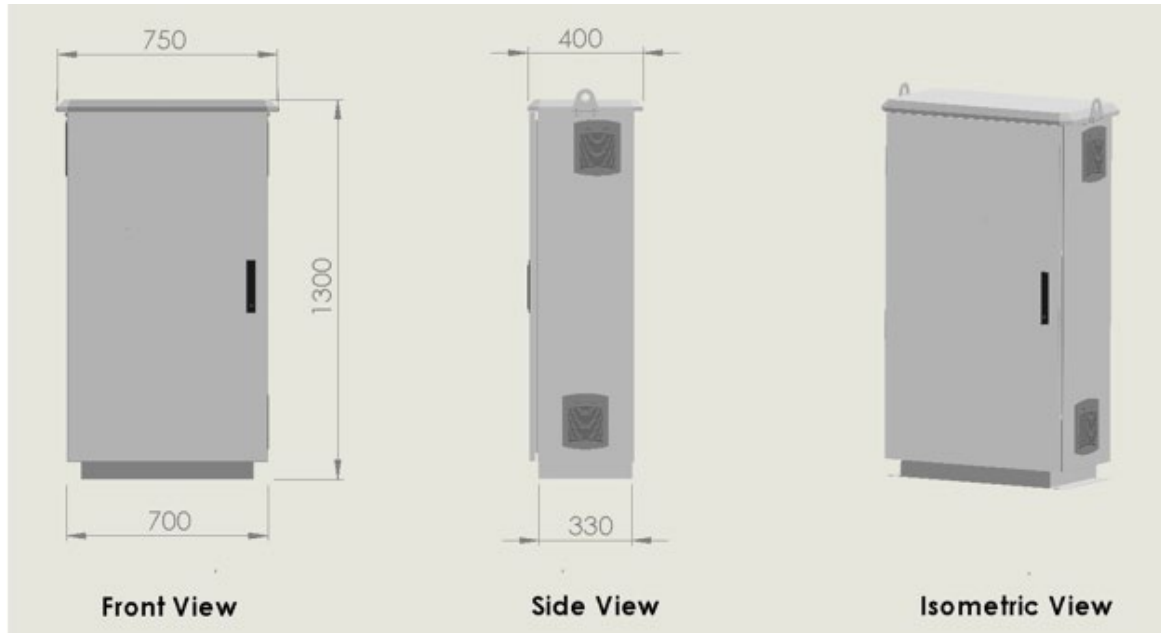
#### BLOCKER PHYSICAL CHARACTERISTICS



#### PHYSICAL CHARACTERISTICS

<b>BLOCKING LENGTH</b>	3000 mm
<b>OBSTACLE HEIGHT</b>	900 mm (standard)
<b>CASE DIMENSIONS</b>	3220 x 1565 x 300 mm
<b>WEIGHT</b>	1400 - 1800 kg
<b>UNDERGROUND STRUCTURE</b>	300 mm NPU
<b>COVERING</b>	The brand of JOTUN, two component surface tolerant epoxy mastic coating for anti-corrosion (Jotamastic) and polyester outdoor painted, black finishing with yellow stripes on the front and top steel plates

#### CONTROL CABINET PHYSICAL CHARACTERISTICS



**CABINET:** 2 mm thick DKP sheet, anti-corrosion electrostatic oven painted, continuous ventilation system.

### CONTROL CABINET DIMENSIONS:

FEATURE	WIDTH	LENGTH	HEIGHT
STANDARD HPU	750	400	1300
DCO	1250	510	1320
EFO	1250	510	1320
DCO/EFO	1250	510	1320



STANDARD HPU



DCO



EFO

**STANDARD HPU:** Hydraulic unit is specially designed for road blockers and bollards. The capacity of oil tank is 40 lt. There are manometer, manual hand pump, oil level and temperature indicator, direction control valve, tank cover, pressure setting, 5,5 kW electric motor in hydraulic system.

**DC OPERATION (DCO):** In case of power outage, 6 to 10 complete cycles without electricity can be performed by using the optional DCO. Switching between AC and DC power is provided seamlessly, thanks to high-end battery charger circuit. 24 VDC, 2.2 kW DC power pack, 2 x 12 VDC 50A Dry Type Non-maintenance battery. The capacity of oil tank is 100 lt.

**EMERGENCY FAST OPERATION (EFO):** In case of emergency, optional Emergency Fast Operation feature raises the road blocker to fully up position in less than 1 second, thanks to high-pressured accumulator. This feature is activated by the panic button on remote control keyboard or any external signal such as TP-HS Series Rising Arm Barrier's crash detection. The capacity of oil tank is 100 lt.

**OPERATIONAL CHARACTERISTICS**

<b>OPERATION</b>	Hydraulic
<b>OPERATION PRESSURE</b>	Min 80 Bars / Max 250 Bars
<b>HYDRAULIC OIL</b>	Number 37 - 46 Hydraulic Oil
<b>LIFTING/LOWERING TIME</b>	Adjustable, 3 - 4 seconds (standard)
<b>SPEED CONTROL</b>	Slowing down at opening and closing limit points
<b>OPERATION FREQUENCY</b>	300 + Cycles / Hour
<b>EMERGENCY FAST OPERATION</b>	Rising in 1 second (with optional EFO)
<b>DC OPERATION</b>	Capable to complete 10 cycles without electricity (with optional DCO)
<b>MANUAL OPERATION</b>	Raising and lowering with manual hand pump
<b>POSITION DETECTION</b>	M18 Contactless Position sensor (Weatherproof)
<b>SAFETY</b>	Photocell / Loop detector

**ELECTRICAL CHARACTERISTICS**

<b>ELECTRICAL MOTOR</b>	380 VAC, 50-60 Hz, 3 Phases, 3 to 5.5 kW
<b>CONTROL PANEL</b>	PLC controlled (Schneider), programmable for integration with different systems
<b>TEST PANEL</b>	Integrated test panel on electric cabin cover with phase indicators

**RESISTANCE CHARACTERISTICS**

<b>IMPACT RESISTANCE</b>	K8 Equivalent
<b>AXLE LOAD RESISTANCE</b>	35 Tons
<b>ENVIRONMENTAL CONDITIONS</b>	-15 °C / +70 °C, % 95 non-condensing humidity
<b>PROTECTION CLASS</b>	IP 65

**EQUIPMENT AND ACCESSORIES**

<b>HYDRAULIC HOSES</b>	24/1.5 Connector - 1/2 Radius, 350 Bars max pressure, 10 m hydraulic hose length (standard)
<b>SAFETY EQUIPMENTS</b>	Emergency stop buttons (standard), Optionally front and rear loop sensors, Safety Photocell
<b>STANDARD ACCESSORIES</b>	Control Keyboard (on the Control Panel), Temperature and oil level indicator, Manometer
<b>OPTIONAL ACCESSORIES</b>	Control Keyboard (Wired), Traffic Light, Flasher Lamp, Drainage Pump, Siren, RF Receiver, RF Transmitter, RF Antenna

**CERTIFICATIONS AND WARRANTY**

<b>CERTIFICATIONS</b>	ISO 9001:2015, ISO 14001:2015, OHSAS 18001, CE, TSE
<b>WARRANTY</b>	2 years