TPR-CT 3100

CRASH TEST ROAD BLOCKER

GENERAL INFORMATION

TPR-CT Series Crash Test Hydraulic Road Blockers are the most reliable Hostile Vehicle Mitigation (HVM) products that provide high level security protection against hostile vehicle attacks. TPR-CT series Crash Test Road Blockers already proved their high-impact resistance with getting awarded by K12 level of DOS SD-STD-02.01 standards according to results of crash tests.
While 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.
TPR Hydraulic Road Blockers are manufactured in developed production facilities by experienced technical staff, using quality materials and electronic components with the highest reliability in the market.
In addition to standard sizes and features, it is possible to customize specifications and dimensions according to customer needs and provide practical solutions.

MAIN CHARACTERISTICS

- Robust construction of TPR-CT Series Crash Test Road Blockers are designed for heavy duty operations and made out of heavy materials,
- High impact resistance that meets K12 level of DOS SD-STD-02.01 standards and IWA14-1:2013 certification,
- 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 a case of power failure or in an emergency situation, road blocker can be controlled manually with the help of manual hand pump,
- Easy to install and maintain,
- Can be integrated with other access control systems easily.

MAKİNE OTOMASYON ELEKTRİK ELEKTRONİK SANAYİ VE TİCARET LTD. ŞTİ.

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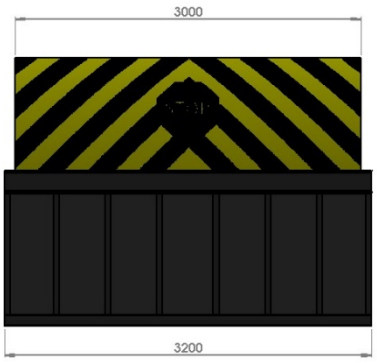
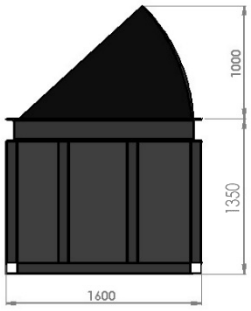
TECHNICAL SPECIFICATIONS

BLOCKER PHYSICAL CHARACTERISTICS



FRONT VIEW



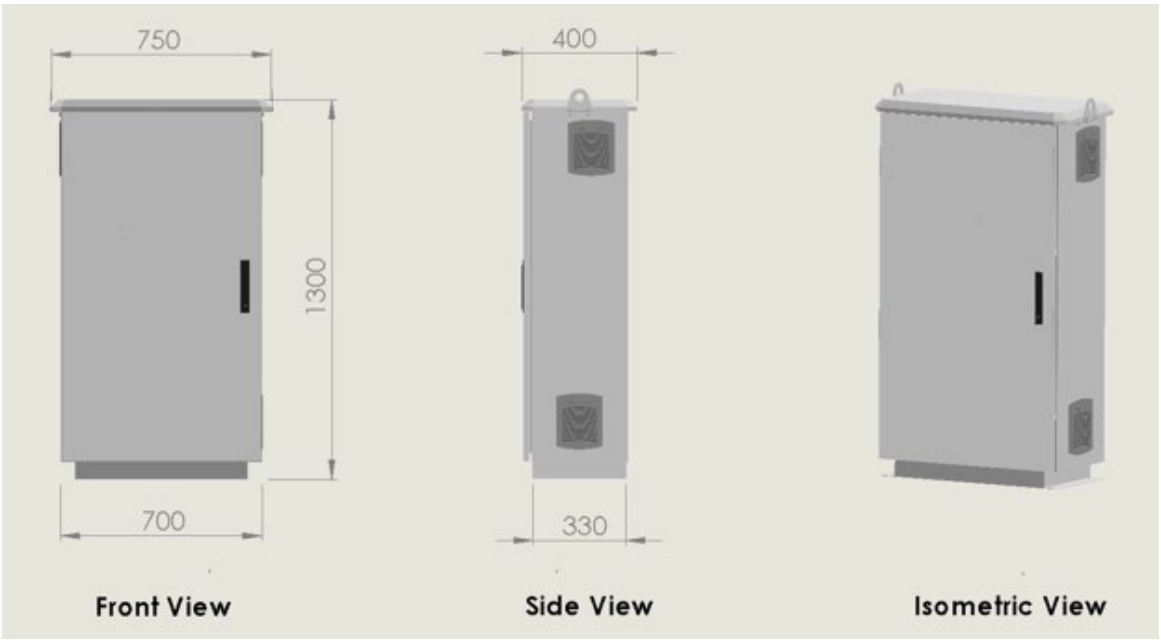
TOP VIEW

I SOMETRIC VIEW

PHYSICAL CHARACTERISTICS

BLOCKING LENGTH	3000 mm (standard)
OBSTACLE HEIGHT	1000 mm (standard)
CASE DIMENSIONS	3220 x 1600 x 1350 mm
WEIGHT	1500 - 1800 kg
UNDERGROUND CASE	Heavy 100 x 100 x 4 mm square structural profiles, Horizontal 120 / 200 mm NPU steel structural profile supported by vertical 100 mm NPI steel beams, All sides covered with 2 mm thick steel plates
OBSTACLE STRUCTURE	Heavy 200 mm NPU steel profile upper frame supported by vertical 160 mm NPI steel profiles, underground frame construction consisting of heavy 160 mm NPU steel profile block wedge supported by vertical and diagonal 160 mm NPI steel, 12 mm steel top plate
COVERING	Anti-corrosion (Jotamastic) two-component surface-tolerant epoxy mastic coating and polyester exterior painted, black coating with yellow stripes on its circular front steel

CONTROL CABINET PHYSICAL CHARACTERISTICS



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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.

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OPERATIONAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS

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

RESISTANCE CHARACTERISTICS

IMPACT RESISTANCE	K12 level of DOS SD-STD-02.01 standards and IWA14-1:2013 certification
AXLE LOAD RESISTANCE	35 Tons
ENVIRONMENTAL CONDITIONS	-15 °C / +70 °C, % 95 non-condensing humidity
PROTECTION CLASS	IP 65

EQUIPMENT AND ACCESSORIES

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

CERTIFICATIONS AND WARRANTY

CERTIFICATIONS	ISO 9001:2015, ISO 14001:2015, OHSAS 18001, CE, TSE
WARRANTY	2 years

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