

TPR-E 3060

HYDRAULIC ROAD BLOCKER

ECONOMIC SERIES



GENERAL INFORMATION

TPR-E 3060 Economic Hydraulic Road Blockers are reliable and cost effective Hostile Vehicle Mitigation (HVM) products that provide moderate level security protection against hostile vehicle attacks. TPR-E 3060 Economic 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-E series road blockers are designed for heavy duty operations and made out of heavy materials
- TPR-E series road blockers are designed by using the cutting-edge manufacturing computer technology to meet K4 level of protection standards Computer aided finite element tests have proved that TPR-E series withstands an impact force of 6800 kg @ 50 km/h.,
- The drive unit is hydraulic but in case of a power failure or in an emergency situation, road blocker can be controlled manually with the help of a manual hand pump,
- Can be integrated with other access control systems

TECHNICAL SPECIFICATIONS

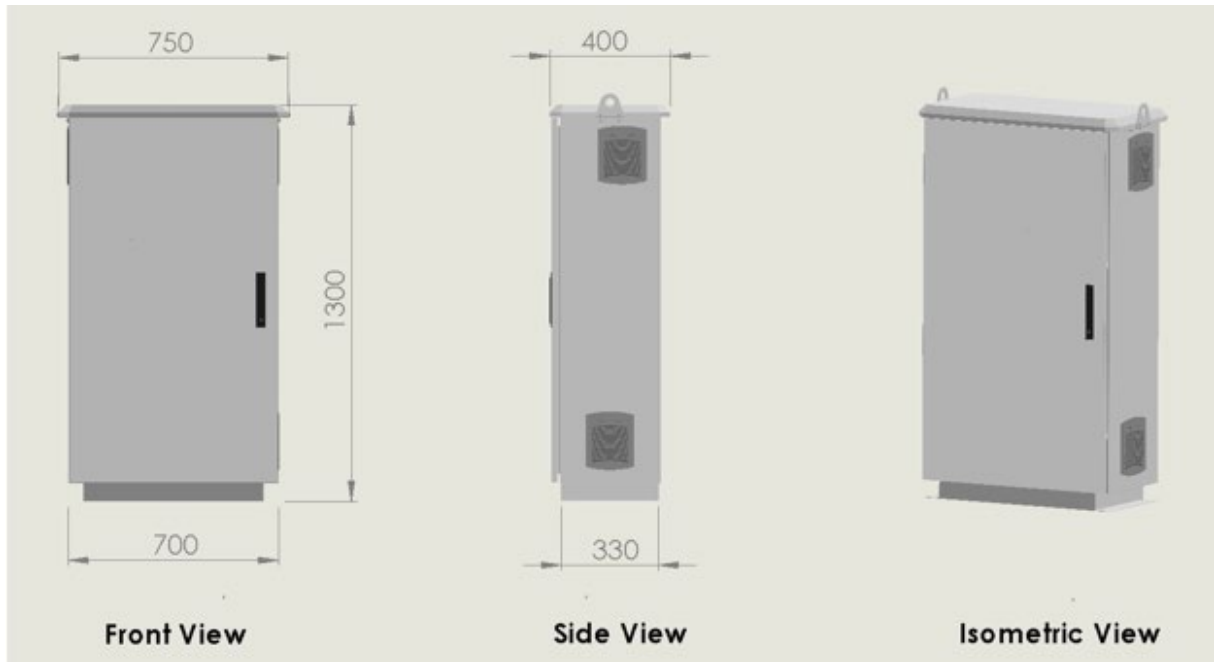
BLOCKER PHYSICAL CHARACTERISTICS



PHYSICAL CHARACTERISTICS

BLOCKING LENGTH	3000 mm standard (2000 mm – 7000 mm)
OBSTACLE HEIGHT	600 mm standard (600 mm – 800 mm)
CASE DIMENSIONS	3000 x 1100 x 912 mm
WEIGHT	900-1300 kg
UNDERGROUND CASE	Heavy 100 mm x 100 mm x 4 mm square structure profiles, horizontal 120/200 mm NPU steel structure profile supported by vertical 100 mm NPI steel beams.
OBSTACLE STRUCTURE	Heavy 100 mm NPI and 100 mm NPU profiles, 5 mm thick steel front planar plate and side plates, 10 mm top plate
COVERING	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 50 A 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

OPERATION	Hydraulics
OPERATION PRESSURE	Min 60 Bars / Max 180 Bars
HYDRAULIC OIL	Number 37 - 46 Hydraulic Oil
LIFTING/LOWERING TIME	Adjustable, 6 - 8 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	Proximity switch (Weather proof)
SAFETY	Photocell / Loop detector

ELECTRICAL CHARACTERISTICS

ELECTRICAL MOTOR	380 VAC, 50-60 Hz, 3 Phases, 2.2 to 4 kW
CONTROL PANEL	Microprocessor controlled electronics
TEST PANEL	Integrated test panel on electric cabin cover with phase indicators

RESISTANCE CHARACTERISTICS

IMPACT RESISTANCE	K4 Equivalent
AXLE LOAD RESISTANCE	25 Tons
ENVIRONMENTAL CONDITIONS	-15 °C / +70 °C, % 95 non-condensing humidity
PROTECTION CLASS	IP 55

EQUIPMENT AND ACCESSORIES

HYDRAULIC HOSES	18/1.5 Connector – 3/8 Radius, 220 Bars max pressure, 10 m hydraulic hose length (standard)
SAFETY EQUIPMENTS	Emergency stop buttons (standard), Optionally front and rear loop sensors, Safety Photocell
STANDARD ACCESSORIES	Control Keyboard (on the Control Panel), 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