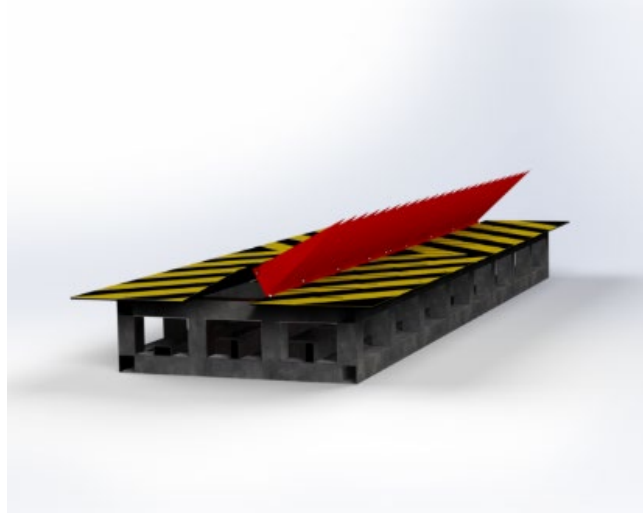


HTK 4045 HYDRAULIC TYRE KILLER



GENERAL INFORMATION

HTK series hydraulic tyre killers are spike barriers which are hydraulics operated and designed to be used at high security requiring entrance points that might be under attack by vehicles.

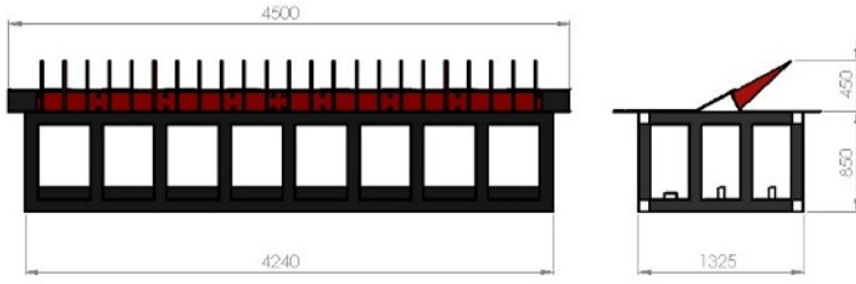
Hydraulic tyre killers' mechanical system includes heavy-duty spikes which rise from the ground that damage even the heavy vehicles with high speed. While conventional tyre killers only puncture the tyres and wheels, HTK hydraulic tyre killer highly damages the vehicle from the front and bottom by its raising spikes from the road surface in a couple of seconds. After the damage caused by the spikes that are directly inserted into the vehicle, it is not possible for the vehicle to move further. The spikes are manufactured from high-quality structural steel, between 250mm - 450mm height according to requirements and with an angle of 45 degrees. The hardened spikes of hydraulic tyre killer move all together as they are connected on the same bar.

The hydraulic tyre killers can be installed with various access control systems like gates, arm barriers, rising road bollards, road blockers at the entrance-exit points of places which requires safety against vehicle attacks such as military bases, police headquarters, embassies, airports.

MAIN CHARACTERISTICS

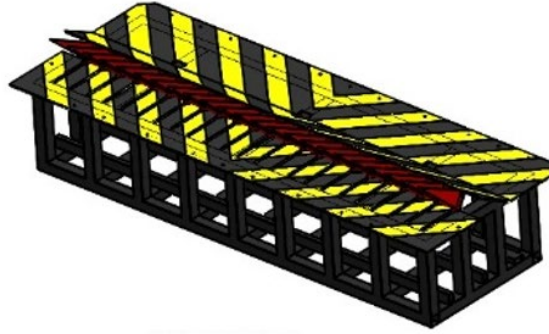
- Hydraulic tyre killers are designed for heavy-duty operations and made out of heavy materials,
- High impact resistance according to requirements of safety,
- Position sensing and speed control with proximity limit sensors which immediately stop the motor operation at limit points. Slowing down at closing and opening limit points which provides a silent operation,
- The drive unit is hydraulic but in a case of power failure or any emergency situation, hydraulic tyre killer can be controlled manually with the help of manual hand pump,
- Can be integrated with other access control devices.

TECHNICAL SPECIFICATIONS



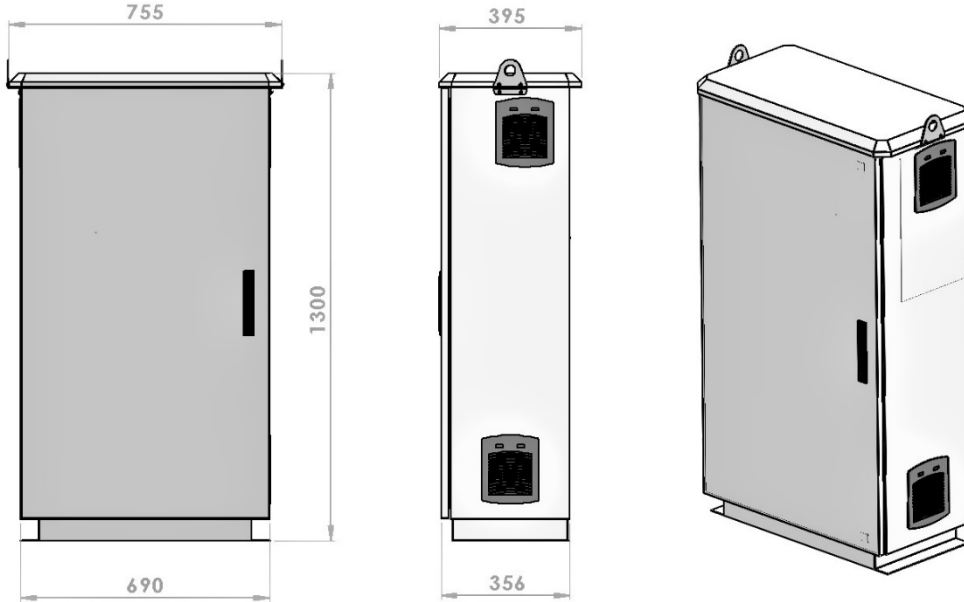
FRONT VIEW

SIDE VIEW



ISOMETRIC VIEW

CONTROL CABINET PHYSICAL CHARACTERISTICS



Front View

Side View

Isometric View

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

CONTROL CABINET DIMENSIONS:

FEATURE	WIDTH	LENGTH	HEIGHT
STANDARD HPU	755	395	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 and hydraulic tyre killers. The capacity of oil tank is 40 litres. 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 failure, 6 to 10 complete cycles without electricity can be performed by using the optional DCO. Switching between AC and DC power is provided smoothly, thanks to a 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 litres.

EMERGENCY FAST OPERATION (EFO): In case of emergency, optional Emergency Fast Operation feature raises the tyre killer to the full-up position in less than 1 second, thanks to high-pressure 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 litres.

PHYSICAL CHARACTERISTICS

LENGTH	Intermediate lengths from 2000 to 6000 mm (4000 mm standard)
HEIGHT OF SPIKES	450 mm standard
CASE DIMENSIONS	4240mm x 1325mm x 850 mm (W x L x H)
WEIGHT	Approximately 1100 - 1800 kg
TREATMENT	Two component surface tolerant epoxy mastic coating for anti-corrosion (Jotamastic) and polyester outdoor painted, black finishing with yellow stripes on the top surface steel

OPERATIONAL CHARACTERISTICS

OPERATION	Hydraulic
OPERATION PRESSURE	Min 80 Bars / Max 180 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	Proximity switch (Weather proof)
SAFETY	Photocell / Loop detector

ELECTRICAL CHARACTERISTICS

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

RESISTANCE CHARACTERISTICS

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

EQUIPMENT AND ACCESSORIES

HYDRAULIC HOSES	18/1.5 Connector - 3/8 Radius, 350 Bars max pressure, 10 m hydraulic hose length (standard)
SAFETY EQUIPMENTS	Emergency stop buttons (standard), Optionally front and rear loop sensors
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