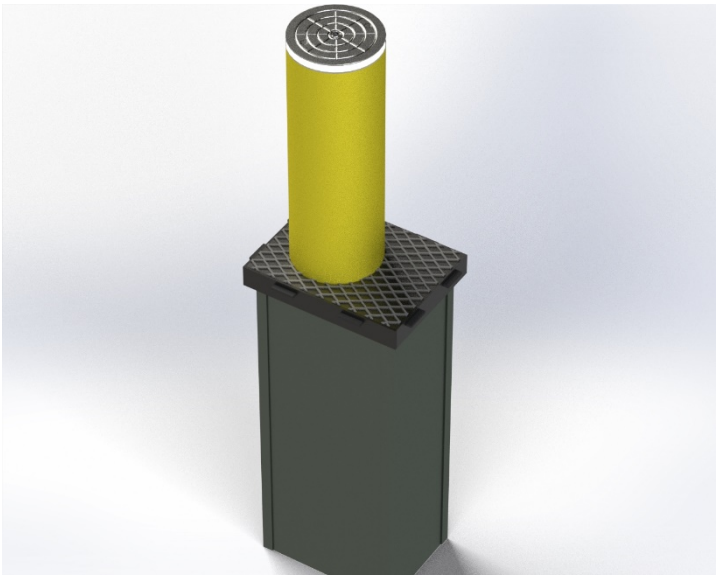
TPB-E 1080 ECONOMIC ROAD BOLLARD



GENERAL INFORMATION

TPB-E 1080 hydraulic rising road bollards are suitable vehicle access control solutions in areas where frequent and heavy duty usage is necessary to provide high level of security. TPB-E 1080 is especially designed to provide high resistance to impact forces. Thanks to powerful internal hydraulic power pack design, it is an ideal choice for high frequency operations and heavy duty works. It is achieving high level of security while maintaining an aesthetic look. Hydraulic bollards are widely used at high security access applications and regulation of city traffic at entrance-exit points, military areas, industrial, governmental buildings and streets which are closed to traffic in certain hours of the day.
During a power failure, it is designed to be controlled manually. Thanks to PLC controlled electronics, the raising-lowering operation can be achieved by card readers, remote control, on/off key switches, biometric readers etc. Safety accessories like photocells, loop detectors and other optional accessories like traffic lights, flash lights can be integrated to the system.

MAIN CHARACTERISTICS

- Internal hydraulic power pack design provides maximum reliability,
- Heavy gauge cylinder, cover and underground case,
- PLC and best quality electronics that provide synchronized operations of grouped bollards with a single control cabinet,
- Thanks to modular case design, easy to installation and maintenance,
- Smooth and silent operation with internal hydraulic system,
- Suitable for intense usages at high frequency accessing, 10000 + movements per day,
- In case of a power failure, it is possible to control manually,
- Optionally adjustable operation times and emergency fast operation mode,
- Aesthetic design.

MAKİNE OTOMASYON ELEKTRİK ELEKTRONİK SANAYİ VE TİCARET LTD. ŞTİ.

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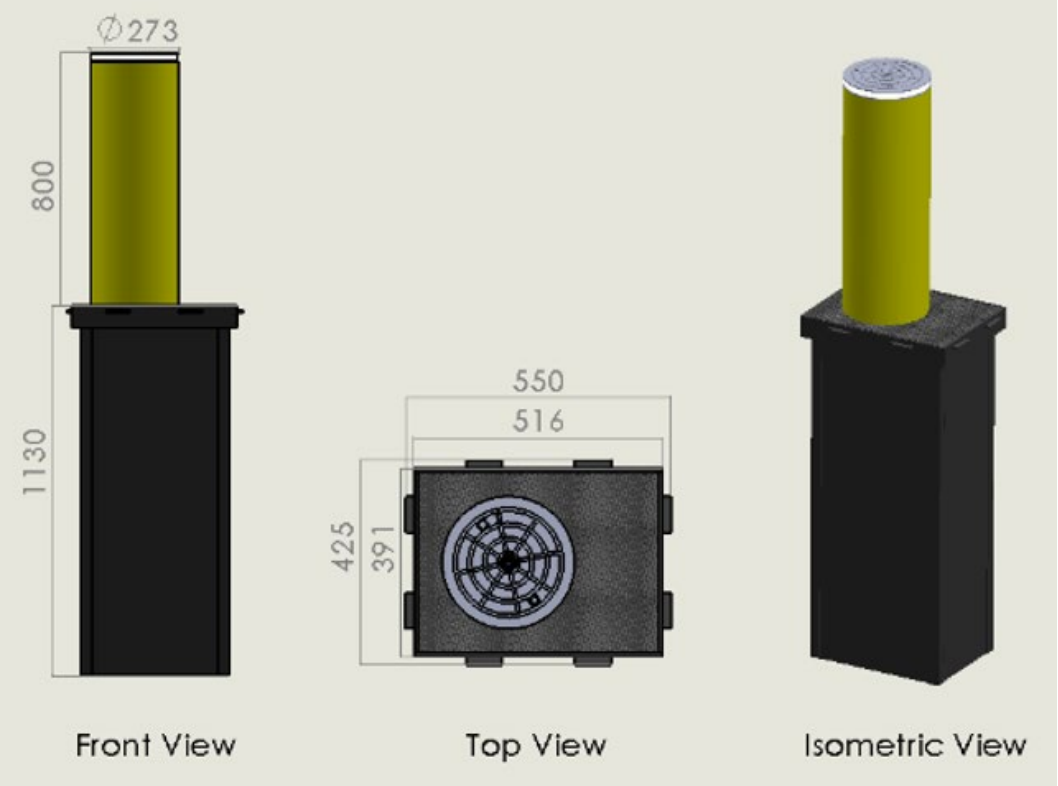
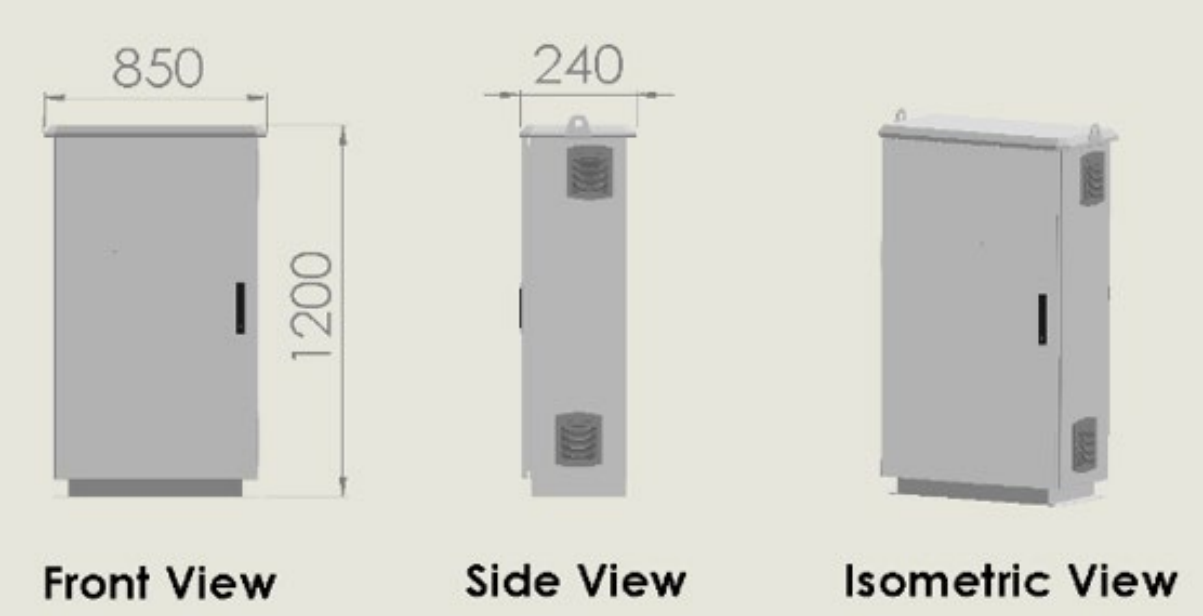
TECHNICAL SPECIFICATIONS



CONTROL CABINET PHYSICAL CHARACTERISTICS



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CABINET: 2 mm thick DKP sheet, anti-corrosion electrostatic oven painted, continuous ventilation system. The dimensions of the cabinet are adjusted for a maximum of 6 bollards.

CONTROL CABINET DIMENSIONS:

FEATURE	WIDTH	LENGTH	HEIGHT
STANDARD HPU	850	240	1200

STANDARD HPU

STANDARD HPU: Hydraulic unit is specially designed for road blockers and bollards. 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.

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PHYSICAL CHARACTERISTICS

CYLINDER DIAMETER	273 mm
OBSTACLE HEIGHT	800 mm standard
CYLINDER THICKNESS	4 mm ST 52 steel core
OUTER CASE DIMENSIONS	516 mm x 391 mm x 1130 mm (W x Lx H)
VISIBILITY ENHANCEMENT	Optional LED stripe

OPERATIONAL CHARACTERISTICS

DRIVE	Internally Incorporated Single Acting Hydraulic
DRIVE POWER	15 Bar Average, 50 Bar Maximum
HYDRAULIC OIL	Atf 220 (standard)
LIFTING/LOWERING TIME	5 - 6 seconds of raising time (depends on obstacle height)
OPERATION FREQUENCY	10000 + movements per day
MANUAL OPERATION	Easy releasing system with personalized key
POSITION DETECTION	Proximity switch (Weather proof) optional
OPERATION CONTROL	RF Receiver, RF Transmitter, RF Antenna, RFID-Proximity Card Reader (Optional)
EMERGENCY OPERATION	Optional (1,2 secs)
EASE OF SERVICE	No need to take the case out of ground for any maintenance operation, fault detection or measuring pressure and adjustments

ELECTRICAL CHARACTERISTICS

ELECTRICAL MOTOR	220 VAC, 50-60 Hz, 750 W
CONTROL PANEL	PLC controlled smart unit for simultaneous operation of grouped barriers

RESISTANCE CHARACTERISTICS

ENVIRONMENTAL CONDITIONS	-15 °C / +65 °C
PROTECTION CLASS	IP 67
IMPACT RESISTANCE	150000 Joules (Impact), 700000 Joules (Break-in)

EQUIPMENT AND ACCESSORIES

SAFETY EQUIPMENTS	Emergency stop buttons (standard), Optionally front and rear loop sensors, Photocells
OPTIONAL ACCESSORIES	Button control interface, Traffic lights, Flasher Lamp, Drainage pump, 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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