

TB-C 2000

ELECTROMECHANICAL CHAIN BARRIER



GENERAL INFORMATION

TB-C electromechanical chain barriers are designed to be used in larger areas where arm barriers cannot be installed. Chain barriers are used to control areas up to 20 meters wide and prevent foreign vehicles from entering these areas. The chain barrier system, safely controls wider areas, and also provides a significant cost advantage compared to standard arm barriers. The electromechanical system provides access control in the field by simultaneously lifting and lowering the chain system, which is tensioned at a certain rate between the two bollards. When the chain goes down, it enters the grooved bump on the ground, the vehicle passes over the bump. Thus, neither the chain nor the wheels are damaged.

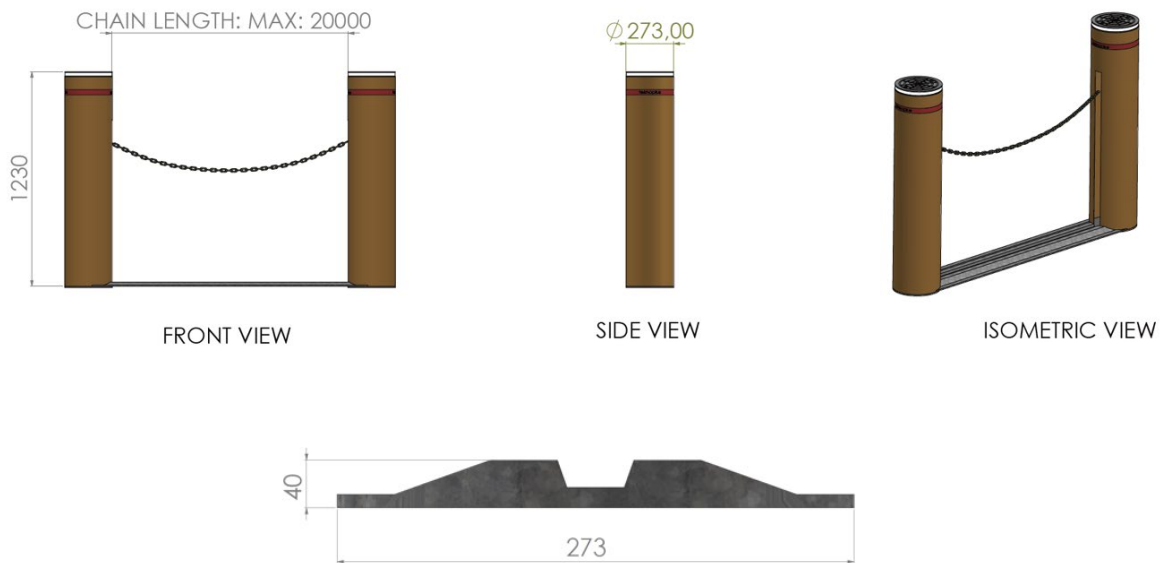
TB-C Chain barriers are designed to fulfill the latest requirements of industry and harsh environmental conditions. Thanks to their strong mechanism and electric motor drives, barriers can handle being in use continuously. Although the drive unit is electromechanical, in case of a power failure, it is possible for barrier system to be lifted and lowered manually.

Chain barriers can be integrated with other kinds of security access systems like tyre killers, road bollards, different kinds of barriers etc.

MAIN CHARACTERISTICS

- 3-6 seconds operating speed according to the length,
- 20 meters of maximum chain length,
- Easy to install, low maintenance cost,
- The system can handle more than 10000+ movements per day,
- Grooved bump on the ground,
- Have an aesthetic and elegant design,
- Can be integrated with other access control systems,
- Manual control in case of power failure,
- Robust structure can resist to harsh environmental conditions.

TECHNICAL DRAWINGS



PHYSICAL CHARACTERISTICS

CASE DIMENSIONS	Cylindrical, 273mm x 1230mm (Ø x H)
CHAIN	Maximum 20 meters, steel chain
MECHANISM	Drive unit consists of electric motor, reducer (gearbox), mounting parts and there is a worm gear which helps rising-lowering movement of the chain.
BARRIER CASE	Manufacture of 2 mm thickness of electrostatic painted DKP steel sheet plate barrier case
TOP COVER	LED stripe to provided visibility (optional)
MECHANICAL ELEMENTS	Galvanized coating, plastic materials are preferred for the mechanical elements of mechanism according to requirements

OPERATIONAL CHARACTERISTICS

OPERATION	Electromechanical
POWER (MOTOR)	220 VAC, 50-60 Hz, 1 Phase, 0,75 kW
RISING/LOWERING TIME	3-6 seconds
OPERATION FREQUENCY	10.000 + continuous movements with %100 duty cycle
SPEED/MOVEMENT CONTROL	Smooth operation with PLC inverter panel
MANUAL OPERATION	Free passage is allowed thanks to the mechanical lock on the chain.
POSITION CONTROL	Inductive limit switches (weather proof) with physical position adjustment for up and down positions
AUTO CLOSE	Closing automatically in adjustable time

RESISTANCE CHARACTERISTICS

ENVIRONMENTAL CONDITIONS	-25 °C / +70 °C, %100 RH or less humidity (without condensation)
PROTECTION CLASS	IP 54

EQUIPMENT AND ACCESSORIES

OPTIONAL ACCESSORIES	Button control, Loop Detector, Safety photocell, Traffic light, LED Top Cover, RF Receiver, RF Transmitter, RF Antenna
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CERTIFICATIONS AND WARRANTY

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