

TB 600 SERIES ELECTROMECHANICAL ARM BARRIER



GENERAL INFORMATION

TB series electromechanical arm barriers are widely used ideal solutions in order to provide security access or traffic control in extremely busy areas. These barrier systems have a variety of usage areas such as parking lots, airports, government offices, military compounds, industrial areas, business centers and many places that requires vehicle access control.

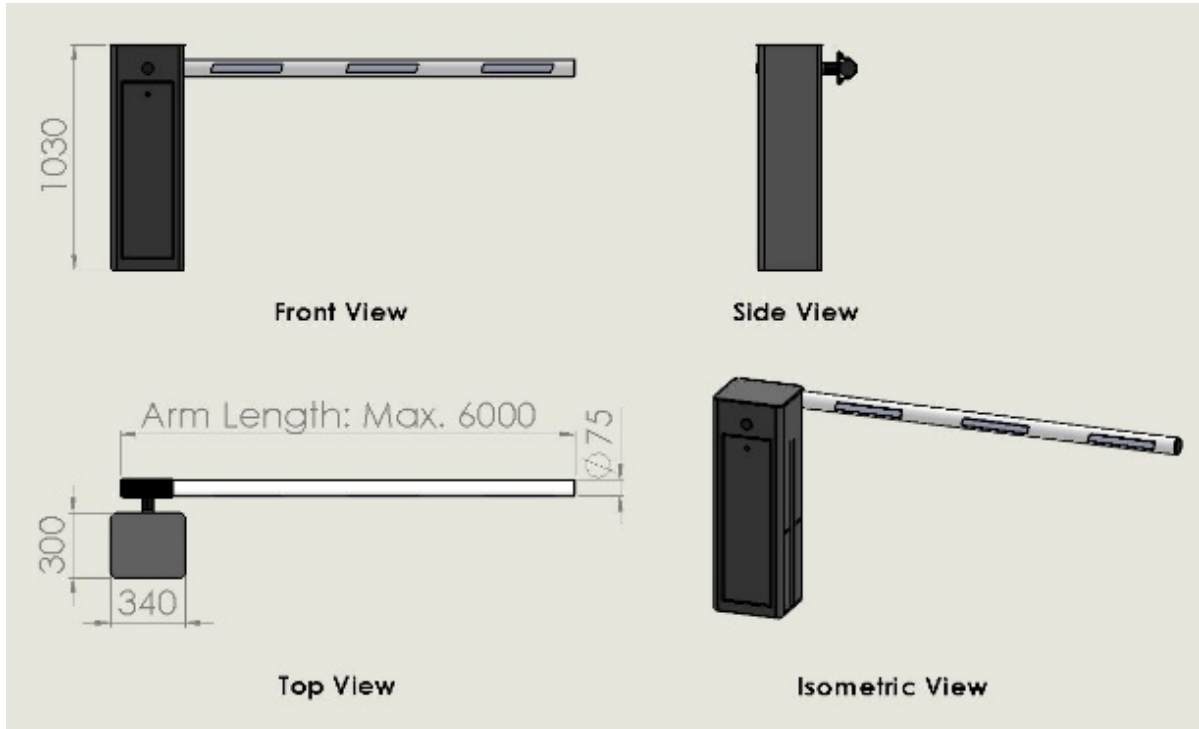
TB series arm barriers are designed to fulfill the latest requirements of industry and suitable for high flow traffics, intensive usage and harsh environmental conditions. The barriers are resistant to continuous use and harsh environmental conditions thanks to their powerful mechanisms and electric motor drives.

Although the drive unit is electromechanical, in case of a power failure, it is possible for barrier system to be lifted and lowered manually.

MAIN CHARACTERISTICS

- Adjustable 3 different operation speed modes in 1.5, 3, 6 seconds according to arm length,
- 6.00 meters of maximum arm length,
- Thanks to its mechanical design, arm can be mounted in reverse direction,
- Easy to install, low maintenance cost,
- During a power failure the arm rises and stayed at open position automatically,
- The system can handle more than 15000+ movements per day,
- Have an aesthetic and elegant design,
- Can be integrated with other access control systems,
- Robust structure can resist to harsh environmental conditions.

DIMENSIONS



PHYSICAL CHARACTERISTICS

CASE DIMENSIONS	340mm x 300mm x 1030mm (W x L x H)
RISING ARM	75mm of diameter, 6000mm (standard), aluminum alloy, warning reflective stripes on the color of white (RAL 9016)
MECHANISM	Drive unit consists of electric motor, reducer (gearbox), mounting parts and there is a spring mechanism which helps rising-lowering movement of the arm.
BARRIER CASE	Manufacture of 2 mm thickness of electrostatic painted DKP steel sheet plate barrier case, 304 grade stainless steel is optional, motor and gearbox holder is 10 mm electrostatic coated steel sheet, 10 mm galvanized slotted external mounting steel plate for robust and easy installation
TOP COVER	5 mm thickness of electrostatic painted DKP steel sheet plate (standard), 30 mm cast aluminum with LED stripe to enhance visibility (optional)
MECHANICAL ELEMENTS	Stainless steel, aluminum, 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	1,5 - 6 seconds at 2-6 meters arm
OPERATION FREQUENCY	15.000 + continuous movements with %100 duty cycle
SPEED/MOVEMENT CONTROL	Smooth operation with PLC inverter panel
POSITION CONTROL	Inductive limit switches (weather proof) with physical position adjustment for up and down positions
OBSTACLE DETECTION	Arm can detect obstacles in both direction and reverse operation instantly
CRASH DETECTION	Optionally, arm releases itself from its mounting point, activate the alarm and warning signal in the situation of hitting by a vehicle (Breaking arm signal feature can be integrated with other access control systems)
AUTO CLOSE	Closing automatically in adjustable time, after the passage of the vehicles

RESISTANCE CHARACTERISTICS

ENVIRONMENTAL CONDITIONS	-25 °C / +70 °C, %100 RH or less humidity (without condensation)
PROTECTION CLASS	IP 65

EQUIPMENT AND ACCESSORIES

MANUEL OPERATION SWITCH	When switch turns on, barrier arm is raised without triggering any alarm or any other commands. When switch is off, barrier arm is lowered and continues to its automatic operation. (Optional)
CRASH ARM MECHANISM	In a case of a vehicle hits arm barrier, the arm is displaced from its mounting point and alarm is activated by a proximity sensor, in order to save the mechanism of barrier from damage and detect the hostile vehicle. (Optional)
90° - 180° FOLDING ARM	For the sites with height limitations, barrier arms can be configured to fold with the angles of 90° and 180° are optionally provided
OPTIONAL ACCESSORIES	Button Control, Safety Loop Detector, Safety photocell, Traffic lights, Led Top Cover, RF Receiver, RF Transmitter, RF Antenna

CERTIFICATIONS AND WARRANTY

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