

OLYMPIC FENCING



PRODUCT TECHNICAL DATASHEET

TOWER PRO



SWING



SLIDING



CANTILEVER



TOWER PRO

- Stainless Steel 316 enclosure
- Adjustable Motor Height
- Ergonomic Control Board Placement
- Easy Cable Access
- Built-in Battery Backup
- Status LED Indicator
- Versatile Accessory Mounting: DIN Rail Compatible

TW110-1600-HS / TW110-2000

Electromechanical HIGH SPEED BRUSHLESS motor, low voltage, super intensive 100% duty cycle, with SENSORED digital magnetic encoder at 4096 Pulses Per Revolution (PPR), irreversible. Digital controller in pre-wired box, for gates up to 1600kg and 2000kg respectively.



Brushless



Intensive Use



High Speed



Digital Encoder

	TW110-1600-HS	TW110-2000
Max Gate Weight	1600 kg	2000 kg
Power Line Supply	230V AC - 50Hz	230V AC - 50Hz
Motor Power Supply	36V AC	36V AC
Power Rating	240W	240W
Duty Cycle	100% Intensive Use	100% Intensive Use
Thrust	1250N	1700N
Operating Temperature	-20+55°C	-20+55°C
Protection Level	IP44	IP44
Reductor Type	Irreversible	Irreversible
Manoeuvre Speed	21 m/min (350mm/s)	12 m/min (200mm/s)
Limit Switch	Without Limit Switches - Optional	Without Limit Switches - Optional
Onboard Control Unit	B70/1THP	B70/1THP
Encoder	Digital Encoder + Magnetic Digital SENSORED, 4096 PPR	Digital Encoder + Magnetic Digital SENSORED, 4096 PPR
Batteries Recovery	Optional 2 External Battery 12V 4.5AH	Optional 2 External Battery 12V 4.5AH
Type Exit Gear	Z17/mod 4	Z17/mod 4



SWING



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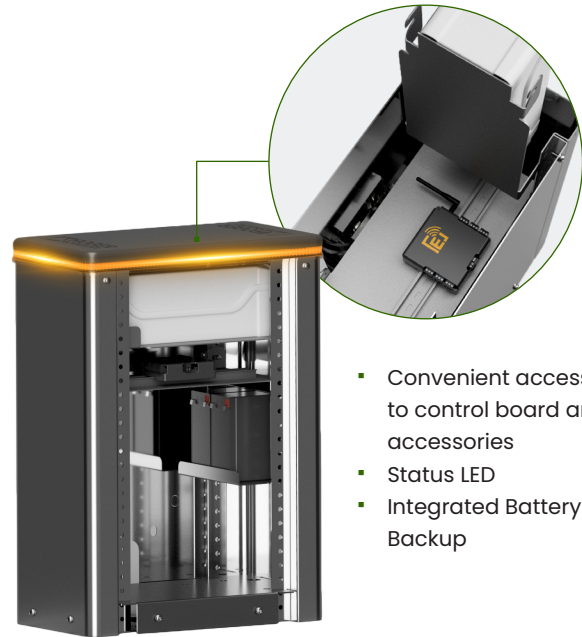
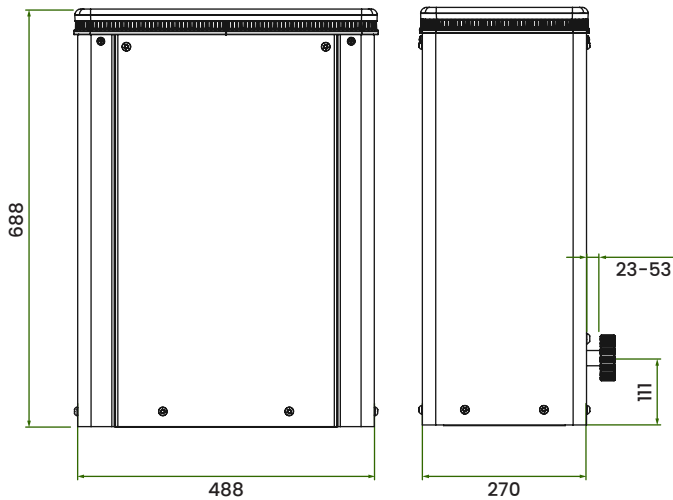
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TOWER BOX

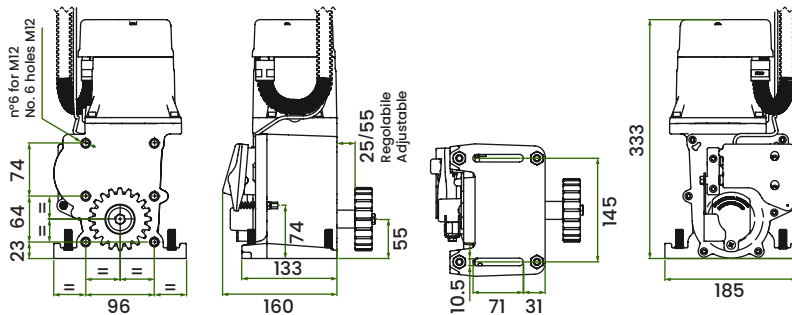
Dimensions

Control Box Fusion

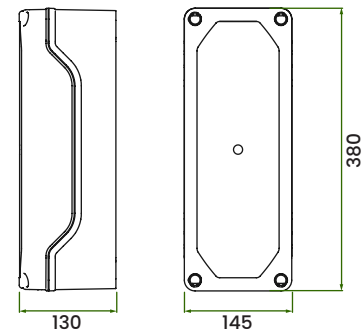


- Convenient access to control board and accessories
- Status LED
- Integrated Battery Backup

TW110 Motor

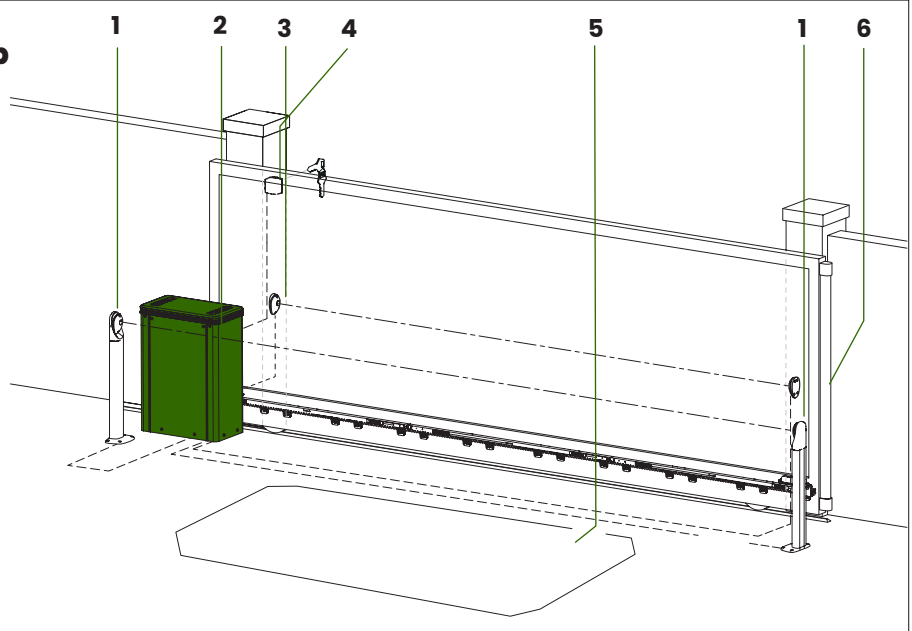


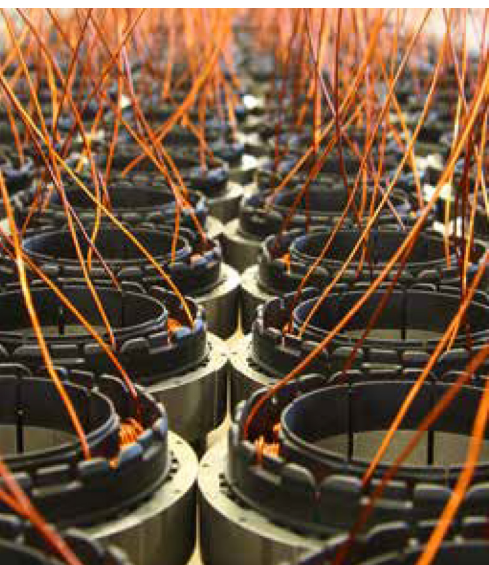
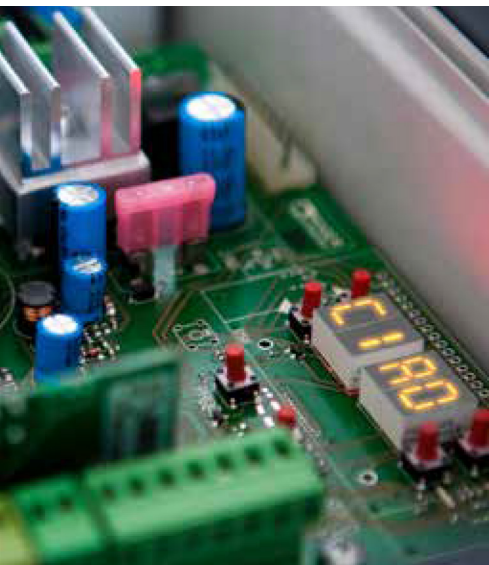
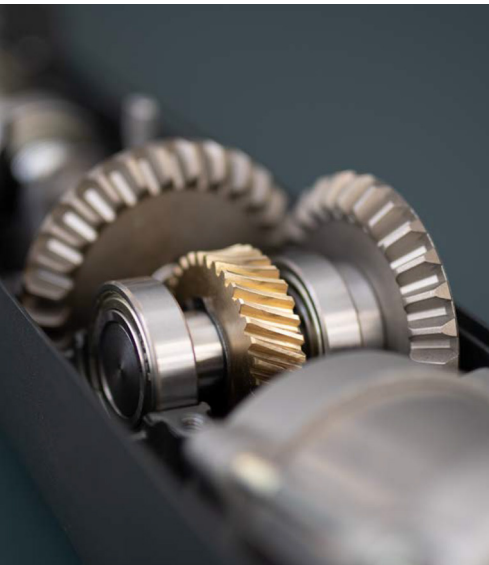
TW110 Control Unit Dimensions



Typical Sliding Gate Set Up

1. Photocells
2. Motor
3. Safety Beam
4. Keypad/Exit Button
5. Loop Detector/Probe
6. **NEW! Mayser Safety Edge**





◆ **Brushless Digital Motor**

This motor uses a permanent magnetic field with neodymium iron baron magnets inside the rotor. It has special coil windings and runs on a three-phase 36V AC for the TW110 power system. The motor is compact, operates at ambient temperature, very low energy consumption and for use in high duty cycle applications.

◆ **4096 PPR High Resolution Magnetic Encoder**

This encoder ensures precise control of the motor's movements, especially during acceleration and deceleration and detects obstacles accurately.

◆ **Precision Engineering**

The gear motor is made of aluminum, steel, and bronze. It uses high-quality double-shielded ball bearings for precise alignment and long-lasting, quiet operation.

◆ **Adjustable Pinion**

Pinion easily adjustable on 7 positions. With the through type pinion shaft, the pinion distance can be adjusted via 5 mm steps, up to a maximum extension of 30mm.

◆ **Lock Release System**

Internal lever unlocking system equipped with a magnetic release sensor, which allows the control unit to be informed of the unlocking status of the automation.

◆ **Emergency Battery Back Up**

In the event of power failure the TW110 requires two x 12V DC 4.5AH batteries in an external box.

◆ **Optional Magnetic Limit Switch**

An optional limit switch can be added, taking up minimal space in the automation system.

◆ **Sustainability**

Roger Technology is a green customer-centric company dedicated to creating sustainable products through environmentally responsible production processes, innovative technologies, and a culture that prioritizes the health, safety, and development of its workers and customers.