AUTOMATIC GATES

TECHNICAL DATASHEET

TOWER

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ROGER TECHNOLOGY

TOWER TW110

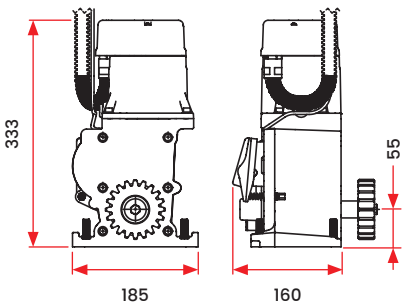
12-25m/min | 1000 - 2000 | Warranty | 100% Duty Cycle

Electromechanical **HIGH SPEED BRUSHLESS** motor, low voltage, super intensive 100% duty cycle, with SENSORED digital magnetic encoder at 4096 Pulses Per Revolution (PPR), irreversible.

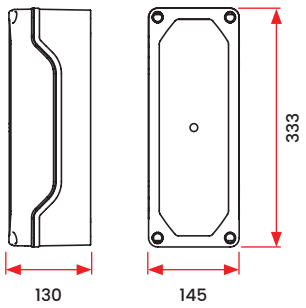
TW110 with digital controller in pre-wired box, for gates up to 1600KG and housed inside a column as small as 187x220 internal measurement.

Variant SKU	TW110-1000-HS	TW110-1600-HS	TW110-2000
Max Gate Weight	1000kg	1600kg	2000kg
Max Stroke Length	20m	20m	20m
Manoeuvre Speed	25m/min (0.42m/s)	21m/min (0.35m/s)	12m/min (0.2m/s)
Power Line Supply	230V AC - 50Hz		
Motor Supply Voltage	36V AC		
Power Rating	240W		
Duty Cycle	100% Intensive Use		
Thrust	1150N	1250N	1700N
Operating Temperature	-20+55°C		
Protection Level	IP44		
Reductor Type	Irreversible		
Limit Switch	Limit Switches (Optional)		
Backup Batteries	Optional 2 external battery 12V 7AH (Separate Enclosure)		
Control Board	B70/1THP		
Encoder	Digital Encoder + Magnetic Digital SENSORED, 4096 PPR		
Type Exit Gear	Z17/mod 4		
Maximum Power Absorbtion			180W

Dimensions:



TW110 Control Unit Dimensions:



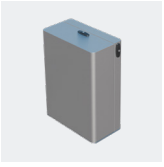
Recommended Accessories:

Remote

Universal Control System

Back-up Battery

External Battery Back-up 36V



Tower PRO

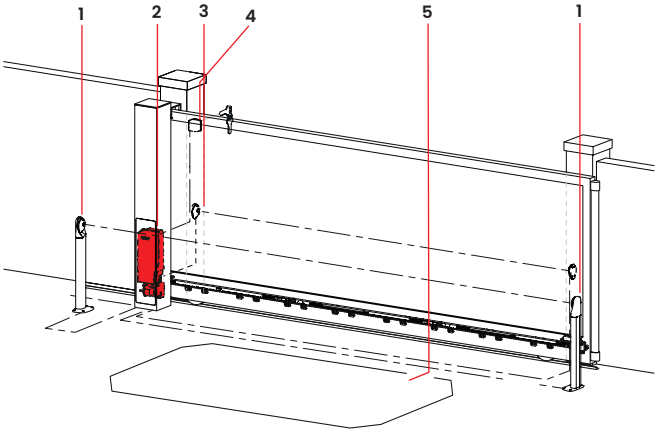
for TW110 Motor

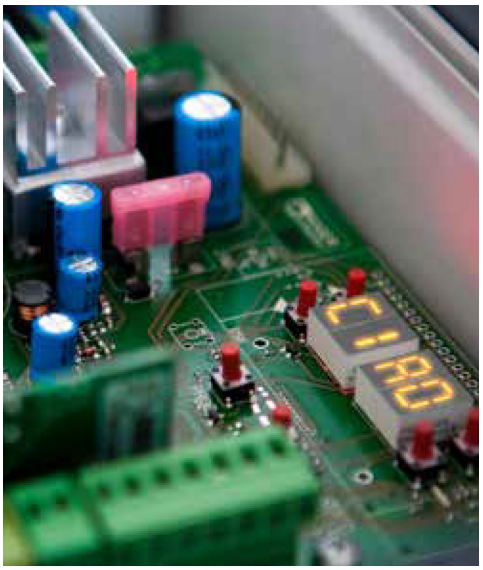
Photocells

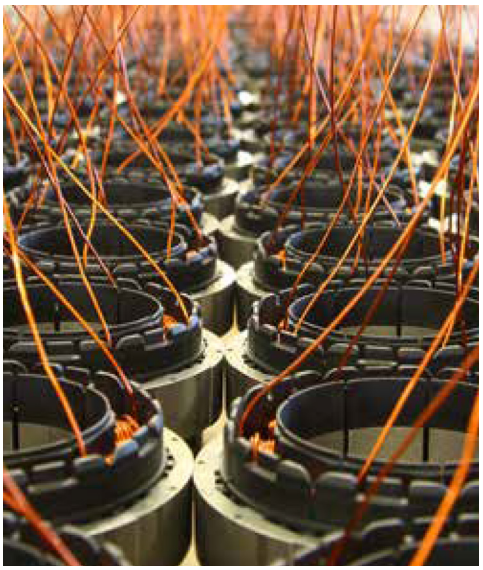
15m Range

Typical Sliding Gate Set Up

1. Photocells
2. Motor
3. Safety Beam
4. Keypad/Exit Button
5. Loop Detector/Probe







- **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 24V AC for the TW90 and 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.

- **Compact And Versatile**

  Our experience in sliding gate automation led us to design a compact, high-performance gearbox that fits columns as small as 135x140 RHS for the TW90 and 250x250 for the TW110.

- **Lock Release System**

  The system includes a trilobe key lock on both sides of the column and a magnetic release sensor that communicates with the control unit.

- **Emergency Battery Back Up**

  In the event of power failure the TW90 holds two x 12V DC 1.2AH batteries internally and 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.

- **Sustainablity**

  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..

AUTOMATIC GATES

Creating custom made gates for nearly 60 years

Automatic Gates designs and custom manufactures wrought iron, aluminium and timber gates for both the residential and commercial market.

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