



SERVICING W.A | RESIDENTIAL & COMMERCIAL



T E C H N I C A L D A T A S H E E T

TOWER



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

TW90 with build in controller, for gates up to 600kg and housed in a column as small as 135 x 140 internal measurement.

Variant SKU	TW90
Max Gate Weight	600kg
Max Stroke Length	20m
Manoeuvre Speed	25m/min (0.42m/s)
Power Line Supply	230V AC - 50Hz
Motor Supply Voltage	24V AC
Power Rating	180W
Duty Cycle	100% Intensive Use
Thrust	540N
Operating Temperature	-20+55°C
Protection Level	IP44
Reductor Type	Irreversible
Limit Switch	Limit Switches (Optional)
Backup Batteries	Optional 2 Internal Battery 12V 1.2AH (Internal)
Control Board	B70/IT
Encoder	Digital Encoder + Magnetic Digital SENSORED, 4096 PPR
Type Exit Gear	Z15/mod 4
Maximum Power Absorbtion	180W

ROGER TECHNOLOGY

TOWER TW90



25m/min



600



Warranty


 100%
Duty Cycle

Recommended Accessories:



Remote

Universal Control System



Back-up Battery

Internal Battery Back-up 24V



Tower Post

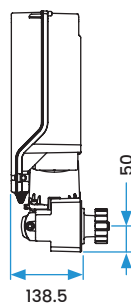
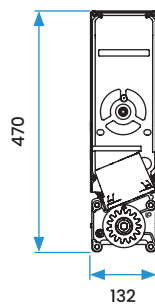
for TW90 Motor



Safety Warning Light

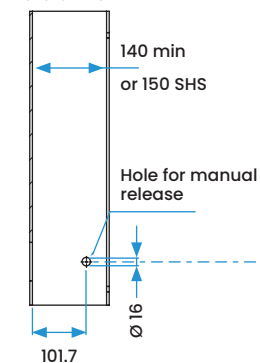
With a built-in antenna

Dimensions:

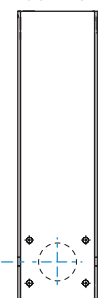


Column dimensions for the TW90:

Lateral View

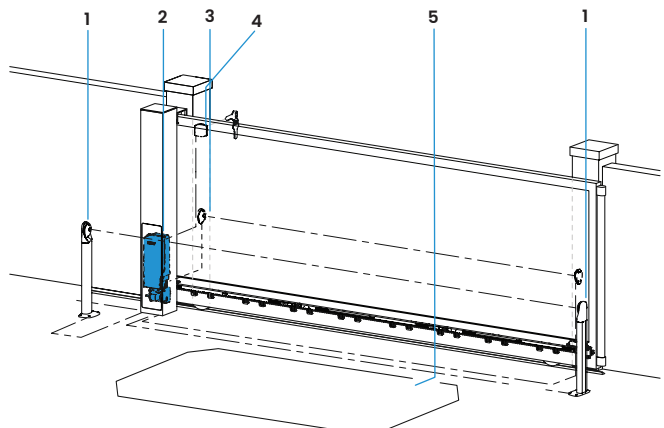


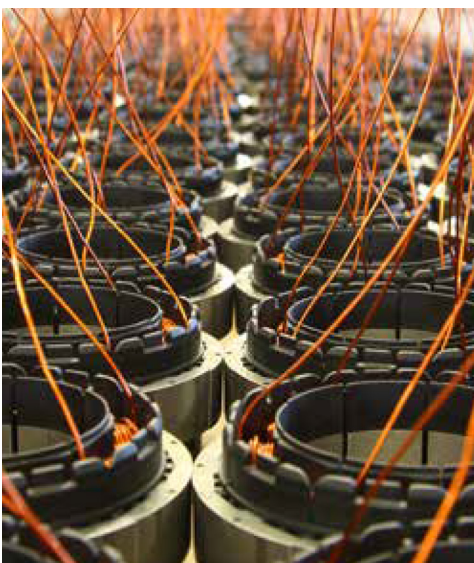
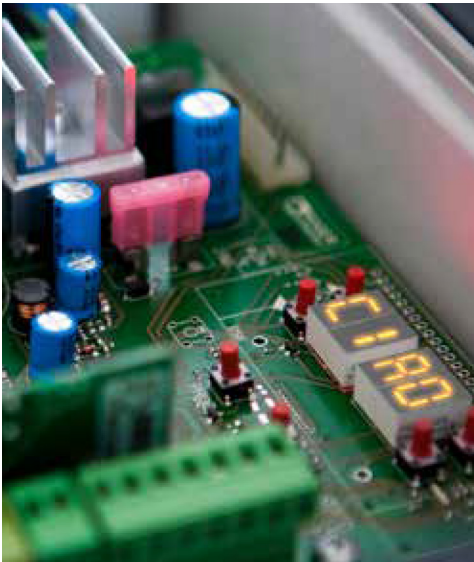
Back View



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.

▪ 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..



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