



PRODUCT TECHNICAL DATASHEET

# AYRON



SWING



SLIDING



CANTILEVER



# AYRON AY-250

Electromechanical motor **BRUSHLESS HIGH SPEED**, low voltage, super intensive use, with native encoder onboard, irreversible, ideal for swing gates with leaf up to 2.5 mt length, with mechanical stopper in opening and closing. Complete with digital controller on board.

## Ayron Solution

The Ayron motor has the particularity of having an electromechanical gear motor complete with digital controller on board (**MASTER - B70/2ML**) and another one without digital controller (**SLAVE**).



Brushless



Intensive Use

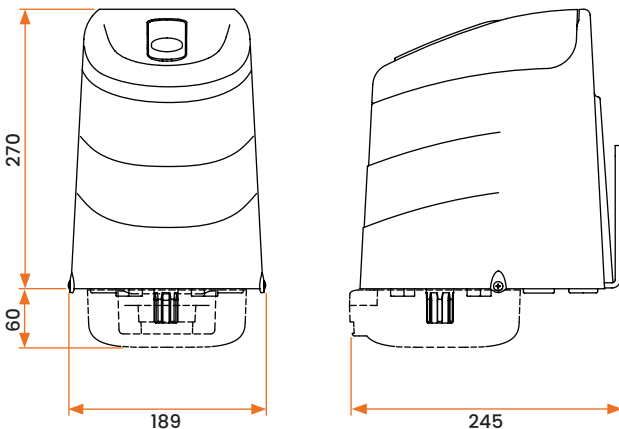


High Speed



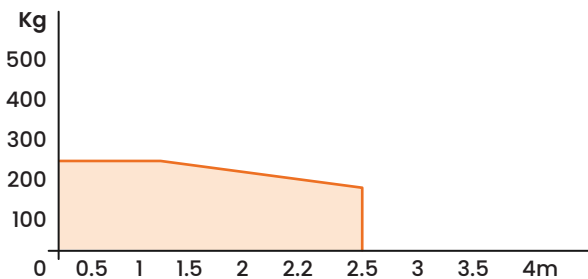
Digital Encoder

## Dimensions



Note: All measurements in the drawings are in millimetres

## Operating Limits



<b>Max Gate Weight</b>	250 kg
<b>Maximum Gate Length</b>	2.5m
<b>Power Line Supply</b>	230V AC - 50Hz
<b>Motor Power Supply</b>	24V DC
<b>Power Rating</b>	160W
<b>Duty Cycle</b>	100% Intensive Use
<b>Thrust</b>	50-200N
<b>Operating Temperature</b>	-20+55°C
<b>Protection Level</b>	IP43
<b>Reductor Type</b>	Irreversible
<b>Manoeuvre Speed</b>	4 - 1.5 Rpm
<b>Opening Time at 90°</b>	10-18s
<b>Stroke</b>	350-450mm
<b>Encoder</b>	Digital encoder SENSORLESS 48 PPR
<b>Batteries Recovery</b>	Optional, 2 x 12V DC 1.2 Amp/h batteries. Can be housed internally.



SWING



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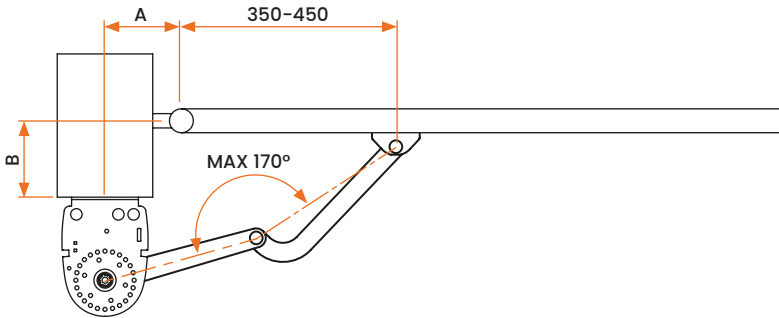


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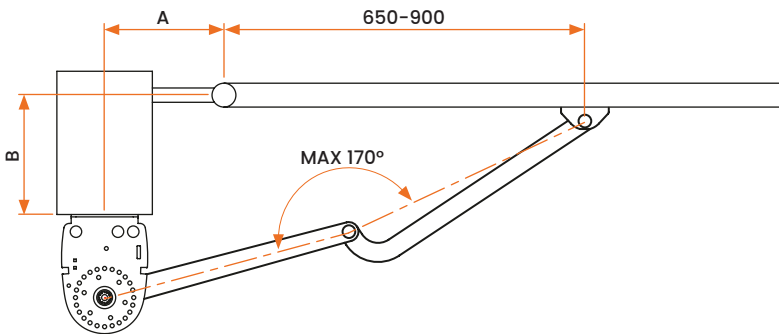
# AYRON AY-250

## Preparations for Standard Installation



with Short Arm

A (mm)	B (mm)	$\alpha^\circ$
130	50-120	90°
140	120	90°
150	50	95°
180	180-200	95°
200	120	95°

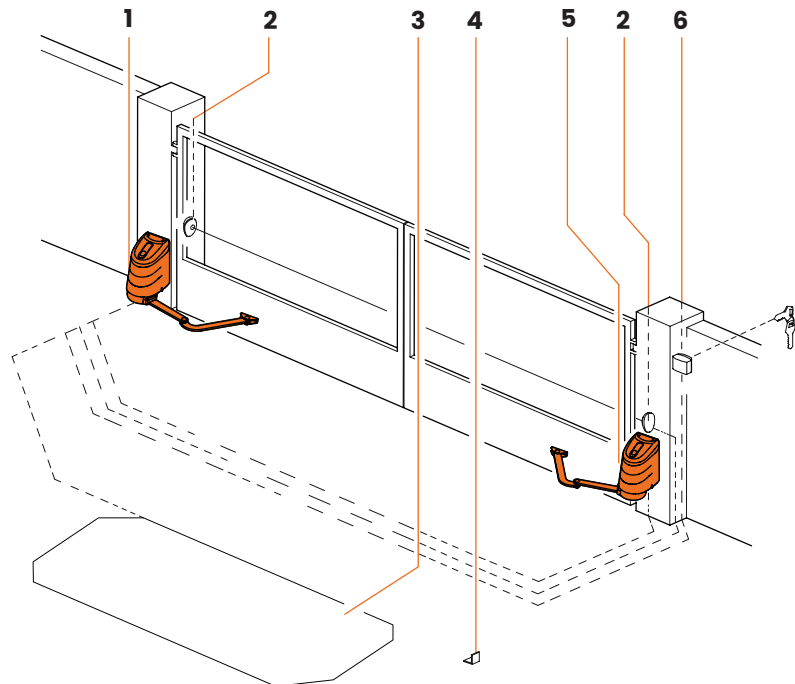


with Long Arm

A (mm)	B (mm)	$\alpha^\circ$
150	100	95°
150	450	90°
200	200	90°
250	0	120°
250	450	90°
300	200	90°

### Typical Swing Gate Set Up

1. Motor (Master)
2. Safety Beam
3. Loop Detector/Probe
4. Gate Stop
5. Motor (Slave)
6. Keypad/Exit Button



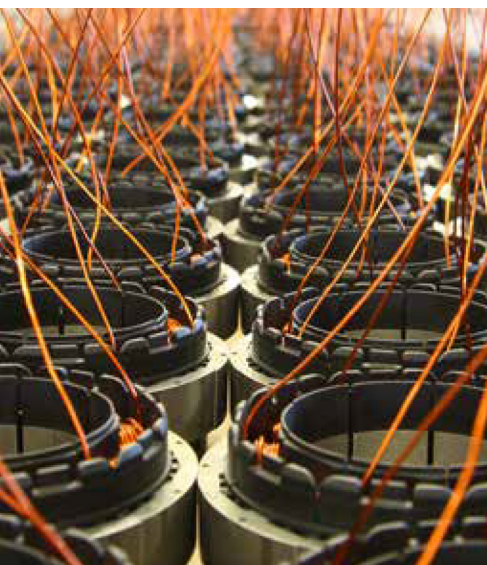
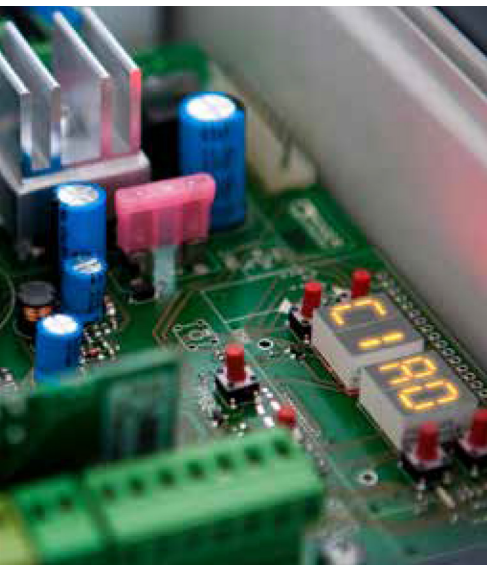
**Master**

1 swing motor with central on board



**Slave**

1 swing motor with battery compartment



◆ **Brushless Digital Motor**

Digital brushless motor based on a permanent magnetic field which uses neodymium iron-boron magnets inside the rotor. Extremely compact and operates at normal ambient temperature, making it suitable for extremely intensive use and extraordinarily energy efficient.

◆ **Master Motor with Integrated Digital Controller**

The Ayrion articulated arm motor offers brushless digital controller, fully integrated and very compact in shape. Positioned inside the master version to have total control in safety and elegance of the motor even in High-speed mode.

◆ **Slave Motor with Integrated Battery Housing**

The Ayrion offers you the possibility of housing back up batteries directly inside the Slave engine.

◆ **Articulated Steel Arm**

Automate the swing motor with articulated arms in the short, long and telescopic version. All thanks to the use of top-quality steel with thicknesses designed to last.

◆ **Internal and External Manual Release Lever**

Ayrion offers two release modes. One internal, lever operated and one external, cord operated. It is designed to guarantee the unlocking of the automation internally and externally in the event of a blackout.

◆ **Column Fixing Bracket**

Minimum fixing distance of 90mm on the column by using the 5mm thick steel bracket.

◆ **Adjustable Crown Limit Switch**

Ayrion's opening and closing position is adjusted by mechanical multi-position limit switches, which are fixed directly into the plate in an adjustable crown system.

◆ **Super Intensive Use**

Operates at low voltage with a 100% duty cycle, maintaining low energy consumption.

◆ **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.