

MAC
PROJECT



Catalogue
MAC Motor

engineering inspired by the animal kingdom

Our **MAC Motor** was conceived based on three fundamental principles of modern performance: **silence, power, and intensity**. To communicate these attributes clearly and intuitively, the catalog design uses three animal references that symbolize each characteristic, integrating **earth, sea, and air** as a metaphor for total performance.



engineering inspired by the animal kingdom

The Owl *Operational silence*



● silence

The owl serves as the primary symbol for silent and controlled operation. Just as this predator dominates the night without detection, the **MACMotor** operates with minimal noise and vibration, ensuring acoustic harmony in any environment.

Technical Applications:

- Advanced acoustic insulation systems.
- Internal balance optimization to eliminate resonance.
- Friction reduction in all critical transmission components.

Key Benefit:

Smooth operation designed for environments where acoustic comfort and high efficiency are non-negotiable.

engineering inspired by the animal kingdom



The great white shark
Intensity

The great white shark represents decisive action, dynamic power, and instantaneous torque response. In the marine environment, it is synonymous with concentrated energy and precise execution. The **MAC** Motor replicates this by providing sustained force and immediate response for high-demand work cycles.

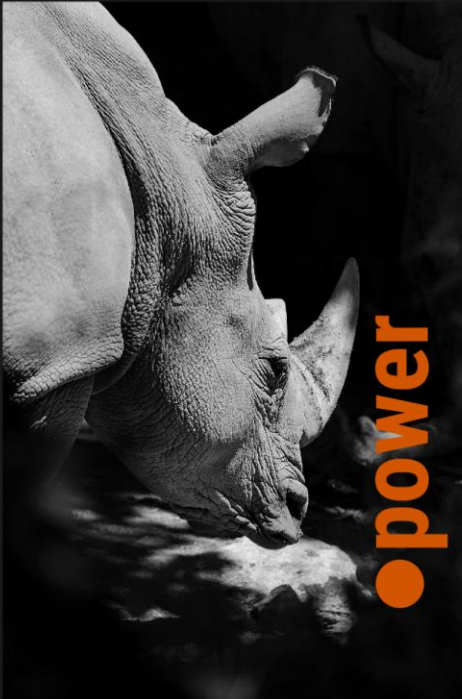
Technical Applications:

- Duty-cycle optimization for prolonged operation.
- Intelligent electronic management under high-demand scenarios.
- Continuous power delivery across intensive operational regimes.

Key Benefit:

Active, decisive performance engineered for longevity, even when operating at maximum capacity for extended periods.

engineering inspired by the animal kingdom



The Rhinoceros

Constant power

The rhinoceros symbolizes brute power and structural endurance. The **MAC Motor** is built to deliver high torque and a constant workload capacity, maintaining reliability even under the most strenuous physical conditions.

Technical Applications:

- High torque delivery at low RPMs.
- High-durability reinforced mechanical components.
- Integrated high-performance cooling systems.

Key benefit:

Exceptional load capacity and reliable performance for high-stress industrial applications.



The **MAC Motor** actuator is a premier solution developed to meet the rigorous demands of the roller door market, specifically for doors utilizing aluminum or stainless steel slats. These systems require a reliable drive mechanism that guarantees silent, rapid maneuvers while maintaining the structural integrity of the door through soft-stop technology.

MAC Motor offers clear advantages over traditional alternating current motors. It is easily installed on the shaft of the shutter and features manual limit adjustment. It incorporates a DC motor that does not exceed 50 dB, providing an opening and closing speed of 6.6 m/min, smooth stop at the end of travel, and an anti-crushing regulation system.

Optionally, during the opening manoeuvre, the speed can be increased by up to 25%, maintaining smooth deceleration at the end thanks to the controlled reverse system.

Unlocking is carried out simply by turning a lever. Once activated, the shaft is completely free, enabling manual operation of the closing system and allowing the door to be opened or closed with full convenience.

● power

Shopping center

Single aluminium slat / double-perforated aluminium slat



Residential

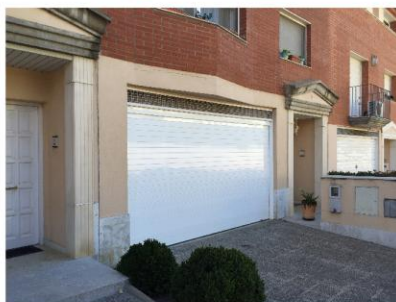
Double aluminium slat and pedestrian door



● silence

Commercial

Double aluminium slat and pedestrian door



Residential

Double aluminium slat white colour



Community parking

Double perforated aluminium slat



Residential

Galvanized steel slat with reinforcement

● intensity

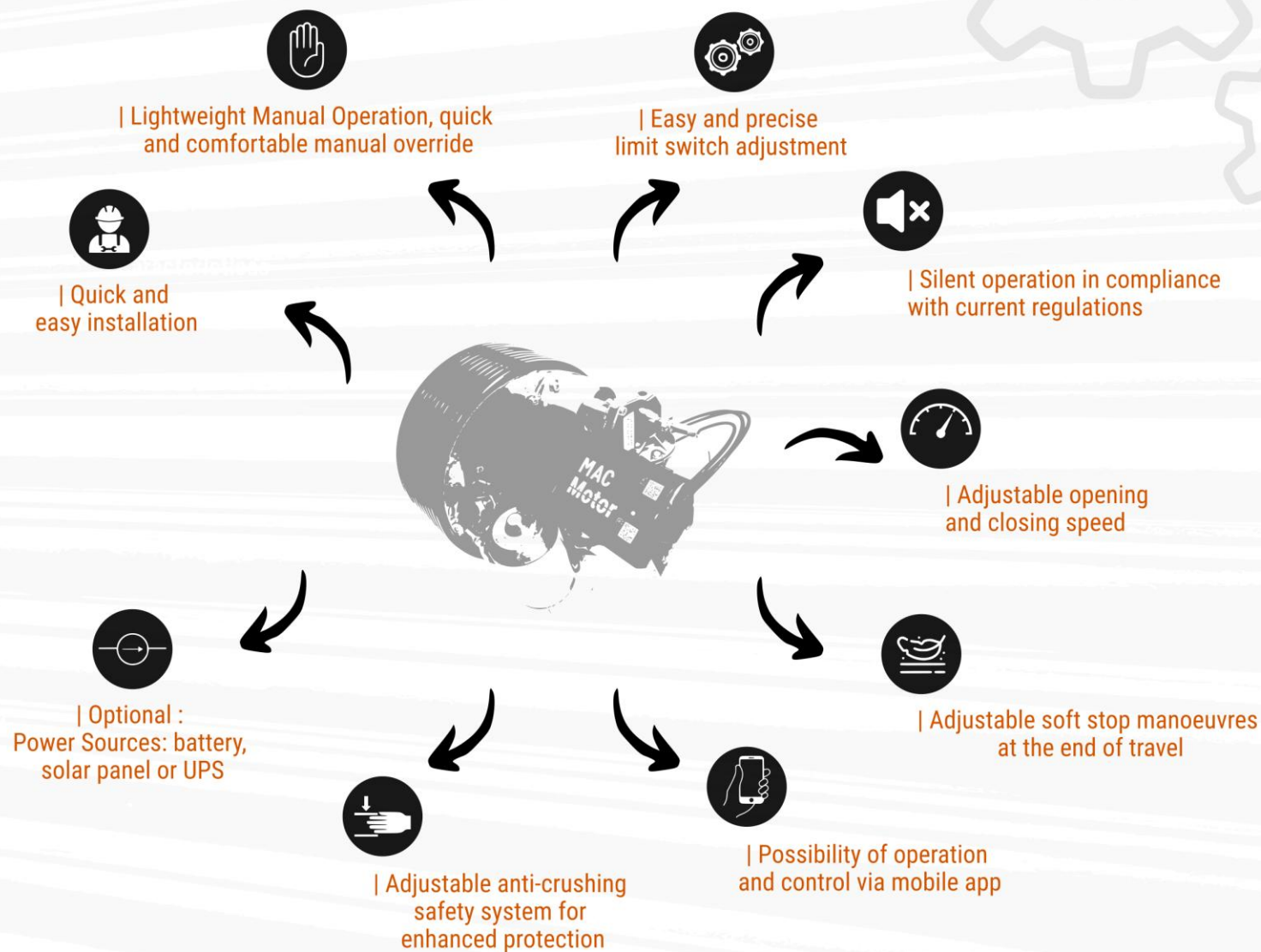


MAC Motor | 225/60



MAC Motor | bimotor 248/76

MAC Motor | Core features



● soft stop

Commercial ●

MAC Motor drive is suitable for rolling doors in commercial premises. Its design guarantees smooth and quiet operation. Created and designed to adapt to new technologies, with app-based opening.



Comercial

Double perforated aluminium slat

Residential

Double aluminium slat



● intensity

● Residential

The **MAC Motor** drive is ideal for rolling doors in residential communities. It is highly resistant in high-demand environments and is particularly quiet.

It has been tested for 700,000 cycles with a 1-second stop between operations.

● speeds



Industrial

Aluminium slats reinforced with polycarbonate

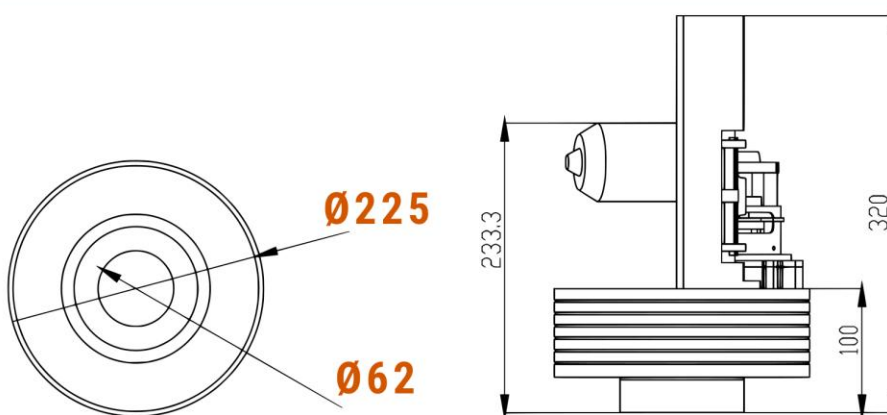


Residential

Aluminium double slat customized colour

Industrial

The **MAC Motor** is controlled by an electronic device with continuous current. It allows programming opening speeds and acceleration ramps, smooth stopping to avoid shocks at the end of travel. Its quality and precision make it ideal for residential use.

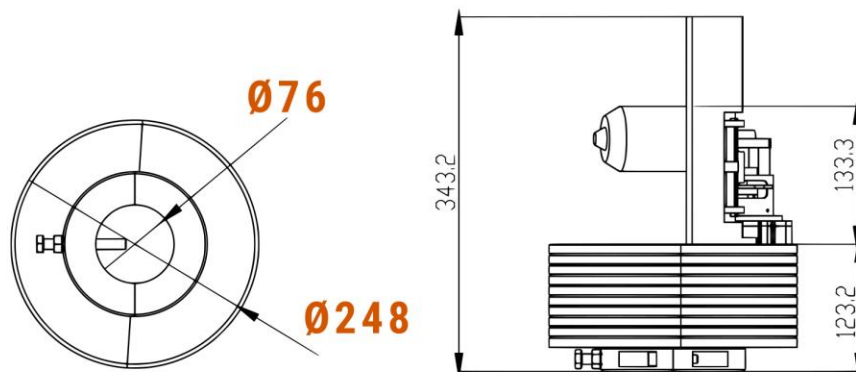


Technical Specifications

	SILENCE 225/60
NOMINAL VOLTAGE (V)	24 V
CONSUMPTION (A)	0,9 A
POWER (W)	60 W
PULLEY DIMENSION (mm)	225 mm
SHAFT DIMENSION (mm)	60 mm
MOTOR LENGTH (mm)	320 mm
SPEED (rpm)	10 rpm
WORKING TEMPERATURE (°C)	de -20° a 70°
COMPENSATED DOOR WEIGHT (kg)	190 kg
DOOR DIMENSIONS (m²)	15 m²
THERMAL PROTECTION	NO
TOTAL WEIGHT (kg)	5 kg
MAX DOOR HEIGHT (m)	5 m
UNLOCKING	MANUAL
MAINTENANCE	NO
OPENING SPEED	6 m/min
CLOSING SPEED	+ 25% optional
DOOR DIMENSIONS (m²)	15 m²

MAC Motor | Bimotor 248/76

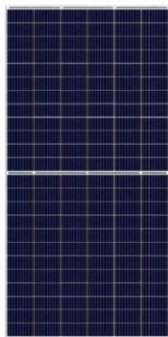
2 1/2"



Technical Specifications

	Bimotor SILENCE 240/76
NOMINAL VOLTAGE (V)	24 V
CONSUMPTION (A)	1.8 A
POWER (W)	120 W
PULLEY DIMENSION (mm)	248 mm
SHAFT DIMENSION (mm)	76 mm
MOTOR LENGTH (mm)	320 mm
SPEED (rpm)	10 rpm
WORKING TEMPERATURE (°C)	de -20° a 70°
COMPENSATED DOOR WEIGHT (kg)	360 kg
DOOR DIMENSIONS (m²)	28 m²
THERMAL PROTECTION	NO
TOTAL WEIGHT (kg)	11,2 kg
MAX DOOR HEIGHT (m)	7 m
UNLOCKING	MANUAL
MAINTENANCE	NO
OPENING SPEED	7 m/min
CLOSING SPEED	+ 25% opcional
DOOR DIMENSIONS (m²)	34 m²

SOLAR PANEL



ELECTRONIC POWER SUPPLY



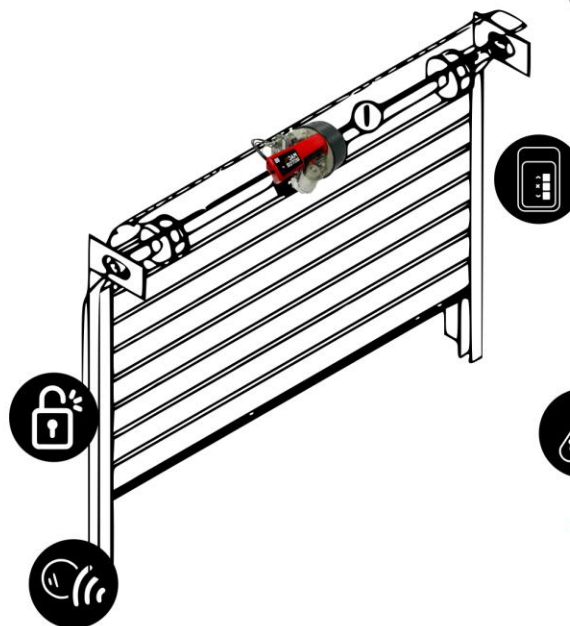
TRIK SILENCE CONTROL BOX



EXTERIOR RELEASE LEVER



INTERIOR RAPID
RELEASE LEVER



433 TRANSMITTER

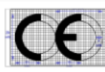


868 TRANSMITTER



 **DIGITAL COPY**

Laboratorio de Ensayos, marcado CE
Test Laboratory, CE mark



Marca: Brand:	TRIK
Modelo: Model:	SILENCE BIMOTOR
Descripción: Description:	Automatismo para puerta enrollable con dos motores
Directivas: Directives:	2014/30/EU (E. M. C.)
Ensayos y medidas. Norma: Tests and measurements Standard:	UNE-EN 61000-3-2:2019 +A1:2021 UNE-EN 61000-3-3:2013 +A1:2020+A2:2022 UNE-EN 55014-1:2021
Resultado en el informe de los ensayos N°: Show in summary in test report N°:	2023-07-005
Verificado: Verified:	V
Fecha (DD-MM-AAAA): Date (DD-MM-YYYY):	03-07-2023
Sello de la compañía y firma: Company seal and signature:	 F. J. García Ing. T. Telecom. General manager.

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Motor Trik-Silence 240/76



Nivel de presión sonora a 1 m en modo bajada
LAeq = 45.4 dBA

Nivel de presión sonora a 1 m en modo subida
LAeq = 45.4 dBA

Fdo: Jairo González PO
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Técnico de laboratorio

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