

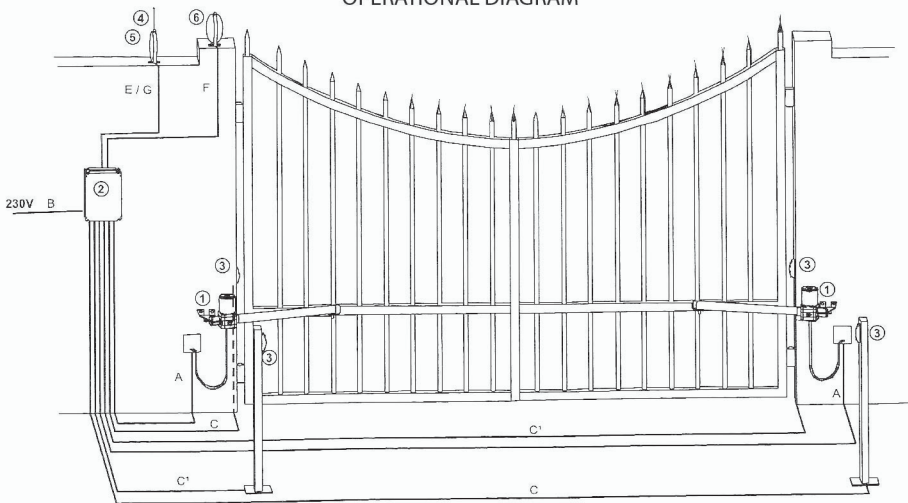


## Installation and use manual

## TECHNICAL FEATURES

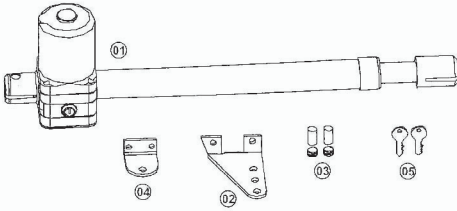
	Mohest 3	Mohest 4	Mohest 5
Power supply	230 - 50Hz		
Absorption	1.2 - 1.7 A		
Motor power	280W		
Capacitor	8 µf		
Thermic protection	150°		
Maximum thrust	2800n		
IP level	44		
Revolutions speed	1400 g/m		
Working temperature	-20° - +55°C		
Leaf's maximum length	2.00 m	2.75 m	3.50 m
Leaf-s maximum weight	350 Kg	350 Kg	250 Kg
Standard stroke	300 mm	400 mm	500 mm
Maximum Opening	110°		
90 opening time	17"	22"	27"
Duty cycle	40%		

## OPERATIONAL DIAGRAM



		230 V	
1	Operator	A	3 x 1,5+T
2	Electronic unit	B	2 x 1,50+T
3	Photocells	Rx	C
		Tx	C'
4	Aerial	F	COASSILE
5	Radio Receiver	G	4 x 0.75
6	Warning light	F	2 x 1.5

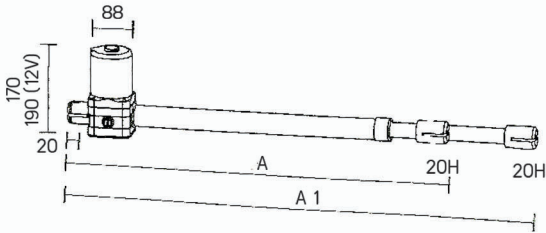
## COMPOSITION



01	n°1	Actuator
02	n°1	Bracket
03	n°1	Fixing kit
04	n°1	Bracket
05	n°2	Release key
	n°1	Installation and Use Manual
	n°1	General Instructions manual

## DIMENSIONS

### MOHEST



	A	A1
MOHEST 3	665	965
MOHEST 4	765	1165
MOHEST 5	865	1365

TABLE 1

	200 mm	175 mm	150 mm	125 mm	100 mm	75 mm	50 mm
MOHEST 3	/	/	A = 98 B = 202 <b>S1</b>	A = 123 B = 177 <b>S1</b>	A = 148 B = 152 <b>S1</b>	A = 143 B = 157 <b>S1</b>	A = 168 B = 132 <b>S1</b>
MOHEST 4	A = 148 B = 252 <b>S1</b>	A = 173 B = 227 <b>S1</b>	A = 198 B = 202 <b>S1</b>	A = 193 B = 207 <b>S1</b>	A = 218 B = 182 <b>S1</b>	A = 213 B = 187 <b>S1</b>	A = 205 B = 195 <b>S2</b>
MOHEST 5	A = 248 B = 252 <b>S1</b>	A = 243 B = 257 <b>S1</b>	A = 268 B = 232 <b>S1</b>	A = 263 B = 237 <b>S1</b>	A = 255 B = 245 <b>S1</b>	A = 280 B = 220 <b>S2</b>	A = 305 B = 195 <b>S2</b>

Mohest 3 A= 145 B= 145

Mohest 4 A= 195 B= 195

Mohest 5 A= 245 B= 245

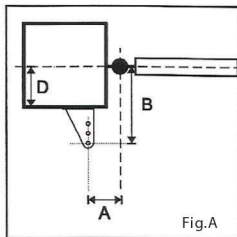


Fig.A

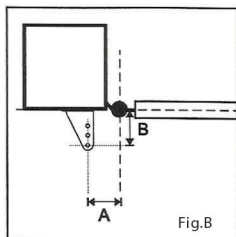


Fig.B

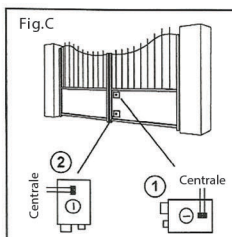


Fig.C

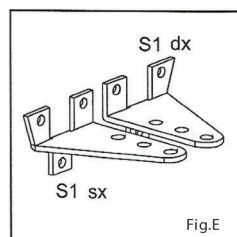


Fig.E

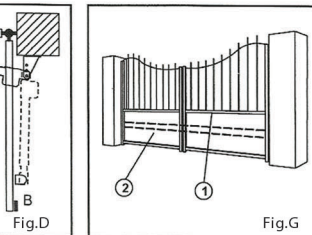
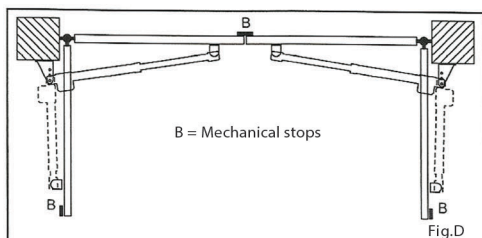


Fig.G

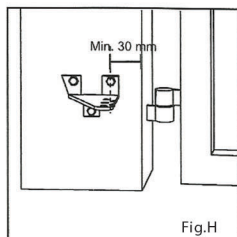


Fig.H

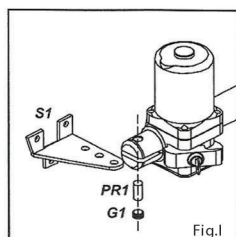


Fig.I

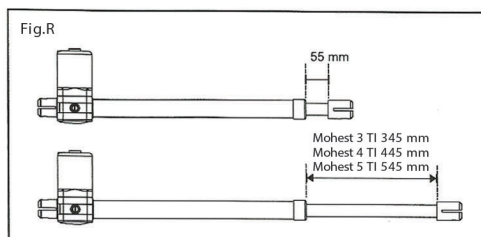


Fig.R

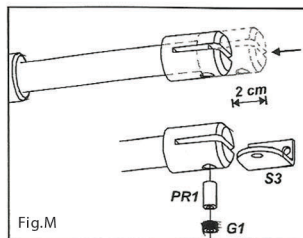


Fig.M

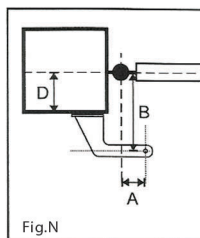


Fig.N

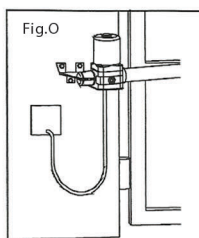


Fig.O

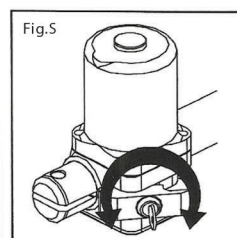


Fig.S



**SAFETY CRITERIA**

- 1. Attention:** before beginning the installation it is absolutely necessary to read all this manual.
- Verify that the technical feature less actuality your installation needs.
- Moreover verify that:
  - The gate hinges are in good conditions and perfectly lubricated.
  - The gate has mechanical stops in opening and closing

**INSTALLATION ADVICE**

- Connections:**
- See the "Functional Scheme" and refer to the control board scheme.
  - The electric cable which exits from the actuator must not be tight, but it has to do an ample curve towards the bottom in order to avoid water reflux inside the actuation (Fig. O)
  - All connections must be done when the device has no power supply.
  - You may need a omni polar breaking device (the cables must measure at least mm)
- Always protect the power supply using a 6A automatic switch, or a 16A single-phase switch with fuses.
- The power supply lines to the motors, to the control unit and to the accessories must be separated to avoid interferences which mule generate problems to me system,
  - Any equipment (either of control or safety) in case connected to the control unit must be tension free.

**Spare parts:**

- Use original spare parts exclusively.
- Get rid of batteries putting them with industrial rubbish and not with domestic rubbish, (Law n.475/88).

**Installation:**

- In order to correctly use me product and to exclude possibility of injury or damage, refer the "General instructions" page, which is a part of this manual,
- The use of this equipment must observe the safety standards in force in the country where it is installed, as well as the standards governing proper installation.

**Warranty:**

- The warranty given by the manufacturer becomes invalid in cases of: tampering, carelessness, improper use, lightning damage, power surges or use by unqualified personnel.
- The warranty will also become invalid in the following cases:
  - If the instructions given in the manuals supplied with the product are not respected,
  - The application of a part in a manner different from current legislation or the use of spare parts which are unsuitable and/or not approved by manufacturer.
  - The manufacturer cannot be considered responsible for damages due to improper or unreasonable use.

**INSTALLATION INSTRUCTION SEQUENCE**

1. Before starting the installation, analyses the risks referring to the chapter "General instructions", which is pan of this manual, till in the technical table and eliminate the risks. In case there are still some risks, use security systems during installation.
2. Verify the Security laws written in the Chapter "Security Criteria" in "General instructions".
3. Identify the right actuator left actuator,
4. Control all the controls.
5. Identify the fixing point on the pillar and on the gate.
6. Verify measure "D"
7. Adapt the bracket S1 according to "Table1".
8. Fix the actuator to the bracket S1.
9. Release the actuator
10. Fix the brackets S3 o S4 to the gate.
11. Fix the final part of the actuator TI (piece n. 35 in the list of parts) to the bracket S3 or me driving pivot of the actuator TA to the bracket S4.
12. Stretch the Cables as In the "Functional Scheme".
13. Connect the control unit and all accessories.
14. Program the radio receiver.
15. Program the "WORKING TIMES"

In case of anomalies, see the chapter "Anomalies and Suggestions" in "General instructions"

If you do not find any solution call the nearest Assistance Centre.

**BLOCKED ACTUATOR**

The actuators are blocked. The electric lock must be installed on the wing that opens first and must be Connected with the terminals of the control unit.

Position of the electric lock. (Fig. C)

**Position 1:** Lock between the wings

(in this case it is necessary to use the bolt RT 15 on the second wing).

**Position 2:** Lock on the floor (in this case the use of the bolt is not essential).

Remember to remove the lock of the gate (or at least leave the lock in open position) and :sue away all me bolts.

**RIGHT OR LEFT ACTUATORS (Fig. D)**

The actuators are supplied In **Right** or **Left** version.

Look the gate from the side where the actuators are installed. If the hinges are on the right the actuator is right, if they are on the left the actuator is left.

**HOW TO DETERMINE FIXING MEASURES**

sate fixed in the middle of the pillar (Fig. A)

In this case the maximum opening angle of the gate is 90°

- The best thing lo do Is tn put the fixing brackets at the measures indicated in the table above picture A and B.

If this is difficult to realise, do as follows:

- Measure the distance D (distance between the hinges' axis and the pillar's edge)
- Look in table 1 and find the line of the distance D, then follow it until you cross the line of the model of your operator.
- In the same table you can see if it is better lo use bracket S1 (Fig. E) or alternatively bracket S2 (Fig. F).

These quotes are calculated in order to obtain an average tangential speed that does not exceed 12 m/minute.

sate fixed on the edge pillar (Fig. B)

In this case the gate can open with an angle superior to 90° (max.120°)

- The best thing to do is to put the fixing brackets at the measures indicated in the table above picture A and B.
- To make the wing open with a bigger angle, **measure A** must be superior to **measure B**.

The best solution can be obtained increasing **measure A** of the same dimension of which **measure B** must be diminished.

**HEIGHT OF INSTALLATION**

Calculate the height of the installation of the actuator according to the gate's shape and to the possibilities of fastening (Fig. G)

- a) If the gate has a big structure you can putt he actuator at any highness with no limits.
- b) If the structure is light It Is necessary to keep the actuator the nearest possible to the middle of the gate (in height).

**Position 1** Central beam of the gate

**Position 2** Stiffen of the gate

**FIXING OF BRACKETS S1**

Bolt or weld the bracket S1 or S2 on the gate's side pillar, keeping in mind that the measures

A and B refer to me gate hinges axis and to the actuators rotation axis.

In case of fastening by expansion bolts, use 13 mm metal bolts and place me nun at no less than 30+35 mm from the pillar's corner, to avoid breaking of corner. (Fig. H)

In case of masonry pillars, use chemical or resin baits or stone the bracket.

- Be careful in using bracket S1 (Fig. E) which is in two Versions: bracket S1 right end

bracket S1 left, they should be used with their actuator; left or right,

- Fasten the actuator to bracket S1 as indicated in "Fig. I", please pay attention that the threaded hole of the rotating pivot PR 1 must be turned down.

**FIXING OF FRONT BRACKET**

MOHEST operators (version with inox tube).

Determine the position of bracket S3 as follows:

- close the gate's wing,
- Release the gearmotor,
- Let the inox ram rotate completely until reaching the mechanical stop (max. stroke)
- Retract the stainless tube approximately for 2cm.
- Place the S3 bracket into the ram with the PR1 pin and fixing (Pict. L)

(NB: lower part)

- Lean the S3 bracket on the leaf keeping the ram perfectly horizontal (you may better use a spirit-level) and fix the bracket with a screw or weld it.

**NB:** Check the manual opening of the leaf before definitively fixing the brackets and make sure that the leaf opens completely.

**MECHANICAL STOPS (Fig. D)**

At this point you need to position the mechanical stops: first the wing's stop in closing and then opening phase.

MOHEST operators (version with inox tube).

When the gate is closed the piston's rod may come out of 335 mm for Mohest 3 TI, of 435 mm for Mohest 4 TI and of 535 mm for Mohest 5 TI at the most.

When the gate is open the rod must be out of at least 65 mm. (Fig. R)

**EXTERNAL OPENING GATE**

In case of external opening gate is possible to place the actuator on the internal side.

In this case the measure/A (distance between the Axe of the hinges and the rotation axe of the actuator) has to be measured towards the center of the gate, and it is necessary to modify the bracket to adapt it to the new fixing position. (Fig. N)

In order not to reduce the length of the passage, the actuator can be positioned In the superior pan of the gate, at a height not inferior to 2 m,

**YOU** Can find the postition of the front bracket with the method indicated above, but with the wing of the gate open.

Due lo the motors power, all fastenings must be very strong

**HOW TD RELEASE THE OPERATOR**

- Insert me key (supplied in the kit) and rotate it clockwise of 90°. (Fig. S)

- Pull the release lever towards the outside until the actuator is released, then rotate again the key of 90° to lock the lever.

- At this point the gate may be opened or closed manually.

- Do the inverse operation to Clasp the actuator(turn in opposite direction the provided key) It is not necessary that the gate is in a specific position because the next start impulse will restore an the previous venues.