

Motoriduttore per scorrevoli

Reduction gear for sliding gates

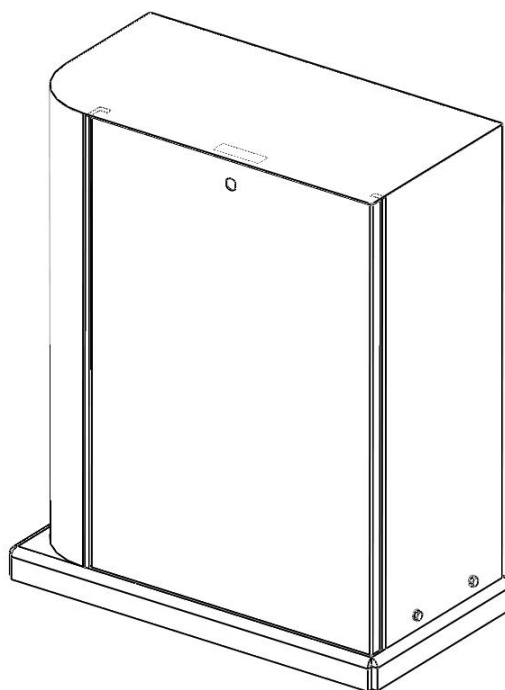
Motoréducteur pour portes coulissantes

Antrieb für Schiebetore

Motorreductor para cancelas correderas

Motorreductor para portões de correr

900SC-400



IT MANUALE ISTRUZIONI
GB INSTRUCTION MANUAL
F MANUEL D'EMPLOI
D BEDIENUNGSANLEITUNG
E MANUAL DE INSTRUCCIONES
P MANUAL DE INSTRUÇÕES



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THIS BOOKLET IS TO BE USED ONLY BY THE INSTALLER

Installation must be carried out only by professionally qualified personnel in compliance with current legal requirements.

SAFETY

Congratulations on your choice of our product.

This manual will aid you in installing your reduction gear.

As you read through it, you will find not only explanations on the operation of the reduction gear, but also on safety standards that you must comply with for perfect operation and maximum safety.

To prevent damage to your unit and to avoid injury to yourself or others, before installing the reduction gear and its components, carefully read all of the following information on safety standards.

Keep this information so that anyone who will be using the unit can refer to it.

No liability shall be accepted for the consequences of failure to comply with the precautions provided.

! If the unit malfunctions, shut it off immediately.

! When making repairs, make sure the electrical supply is disconnected.

! Do not attempt to disassemble the unit if you are not an authorized installer.

! Do not expose to flames or sources of heat. Do not immerge in water or other liquids.

! Use suitable power cables.

! Supervise the door when it is moving. Keep people away from it until it is completely open or closed.

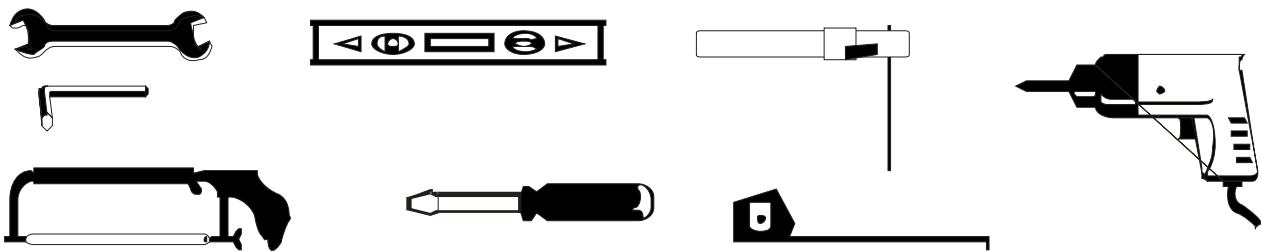
SAFETY STANDARDS

During installation and use of this automation, carefully follow these safety standards:

| | | |
|--|--|---|
|  <p>USE GLOVES!</p> |  <p>ATTENTION! DO NOT INSTALL THE AUTOMATION IN ENVIRONMENTS THAT ARE SATURATED WITH EXPLOSIVE MIXTURES!</p> |  <p>ATTENTION! MECHANISMS IN MOVEMENT!</p> |
|  <p>ATTENTION! SAFE DISTANCE!</p> | |  <p>LEAVE GUARD IN PLACE!</p> |
|  <p>USE WELDING GOGGLES!</p> | |  <p>ATTENTION! ELECTRICAL SHOCK!</p> |

EQUIPMENT

To install the automation, you will need the following equipment: wrenches, screwdrivers, tape measure, level, saw, drill, welder.



MODELS AND CHARACTERISTICS

| | |
|------------------|--|
| 900SC-400 | Irreversible electro-mechanical reduction gear, 400Vac 4000Kg. For sliding gates with control unit and magnetic limit devices, with the predisposition of installing a radio control device and M6 pinion. |
|------------------|--|

TECHNICAL DATA

| | 900SC-400 |
|-----------------------|------------------|
| CONTROL UNIT | CT-380 |
| POWER SUPPLY | 400Vac |
| INPUT POWER | 750W |
| MOTOR ABSORPTION | 2A |
| DEGREE OF PROTECTION | Ip54 |
| TORQUE | 180NM |
| SPEED | 0.17M/S |
| THRUST FORCE | 3500N |
| MAX WEIGHT GATE | 4000Kg. |
| THERMAL PROTECTION | 150°C |
| INSULATION CLASS | 1 |
| TEMPORARY SERVICE | 50% |
| OPERATING TEMPERATURE | -20°C/+70°C |
| WEIGHT | 37Kg. |

OVERALL VIEW

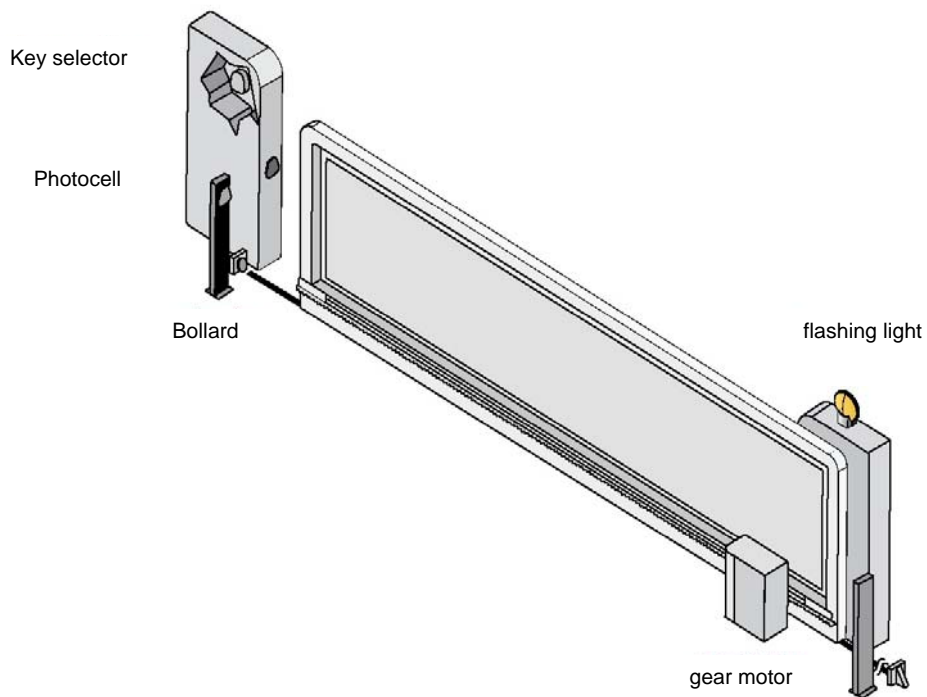


Fig. 1

PRELIMINARY CHECKS

Before starting installation it is recommended to carry out the following checks and operations:

- 1_ The structure of the gate must be solid and appropriate.
- 2_ During the run, the gate must not present excessive side disbandment.
- 3_ The lower wheels/rail and the higher roller/guide systems must work without excessive friction.
- 4_ To avoid the disbandment of the gate, sliding gate check stops, both in aperture and in closure, and a second higher roller/guide must be installed in compliance with current regulations.
- 5_ In pre-existing gates remove any manual lock.
- 6_ Lay the ducts for the energy supply ($\varnothing 25-50\text{mm}$) and for the outside connection (photocell, flashing device, key selector, etc.) to the base of the gate.

DIMENSIONS

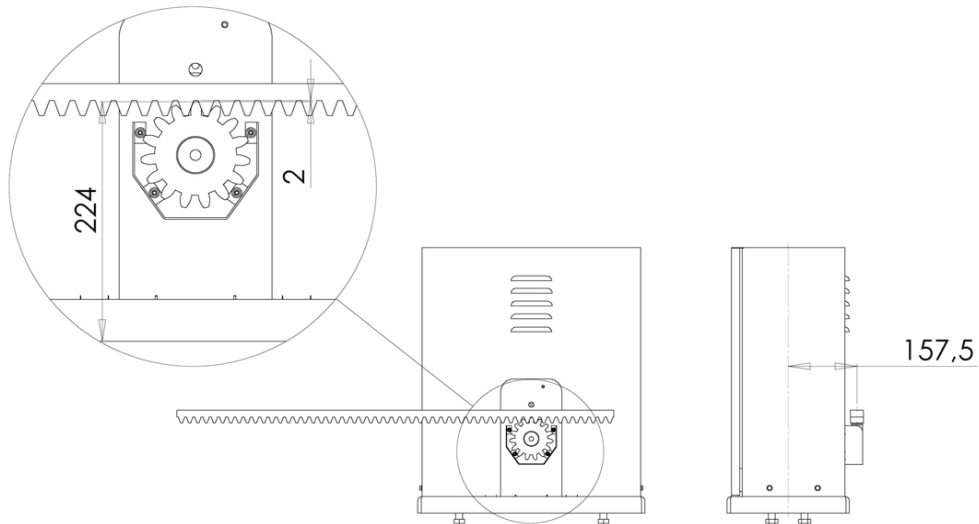


Fig. 2

MANUAL OPERATION

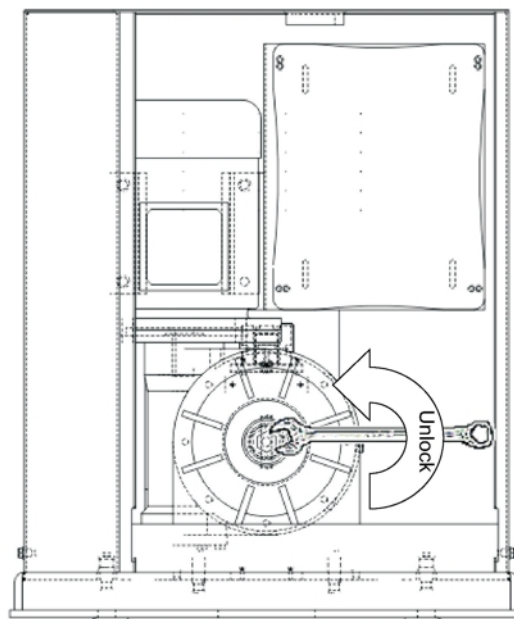


Fig.3

To unlock the gear motor and permit manual aperture of the gate, use a 19 mm wrench and turn the central nut on the gear motor until unlocking occurs (Fig. 3). To relock the motor, turn the nut in the opposite direction. This manoeuvre must be carried out with the motor stopped.



It is advisable to read the instructions carefully before you start installation.

Failure to comply with these instructions, improper use or incorrect connection may compromise the safety or correct operation of the device and hence of the entire system.

No liability shall be accepted for any malfunctions and/or damage due to failure to comply with the instructions.

The company reserves the right to make improvements to the products.

INSTALLATION

Before starting installation, you should carry out the following checks, as well as making sure the structure is compliant with current standards. Specifically:

- Check that the wall and/or column are in good condition. If they are not, the fastening points will need to be reinforced.
- Make sure that the travel of the shutter is not obstructed in any way. The shutter must not have friction, the movement in aperture and in closure must be free. If stopped in any position it must not move. During movement it must not slip.
- Follow the dimensions, create a solid concrete footing and fix the base plate to the ground immersing it into the concrete using the bracket clamps and fixing screws (fig.4). If the base already exists use robust expanding wedges.
- Provide one or more pipelines for the laying of electrical cables.

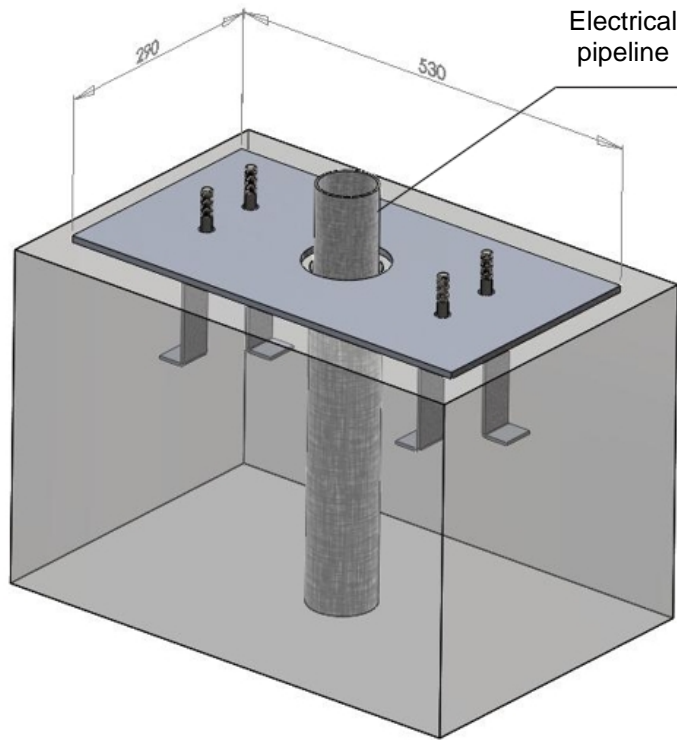


Fig.4

N.B. IT IS NECESSARY TO KNOW THE DIMENSIONS OF THE RATCHET IN ORDER TO CALCULATE WITH PRECISION THE POSITION OF THE COUNTER-PLATE.

FIXING OF REDUCTION GEAR

Open the packaging and check the condition of all the parts of the automation.

- Remove the lid unscrewing the screws see (fig. 5).
- Place the reduction gear on the plate.
- Insert the 4 washers + locknuts to fix the gear (fig. 6).
- If the allowed adjustment of the ratchet is not sufficient it is possible to compensate the height of the reduction gear working on the 4 more external screws (fig.6).
- Once the adjustment is finished firmly fix the 4 locknuts, making sure that during the entire run of the gate, the reduction gear is firmly to the ground.

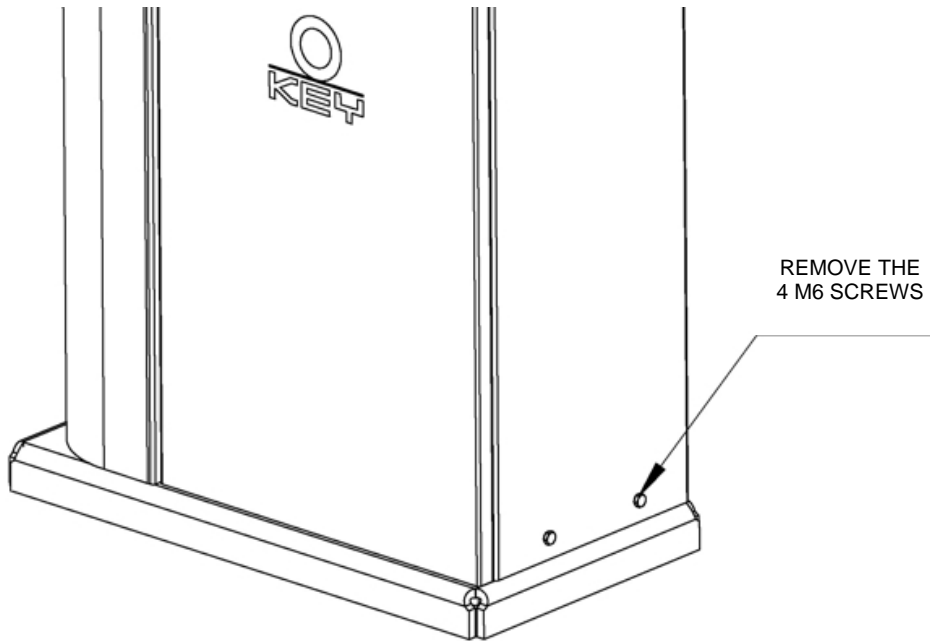


Fig. 5

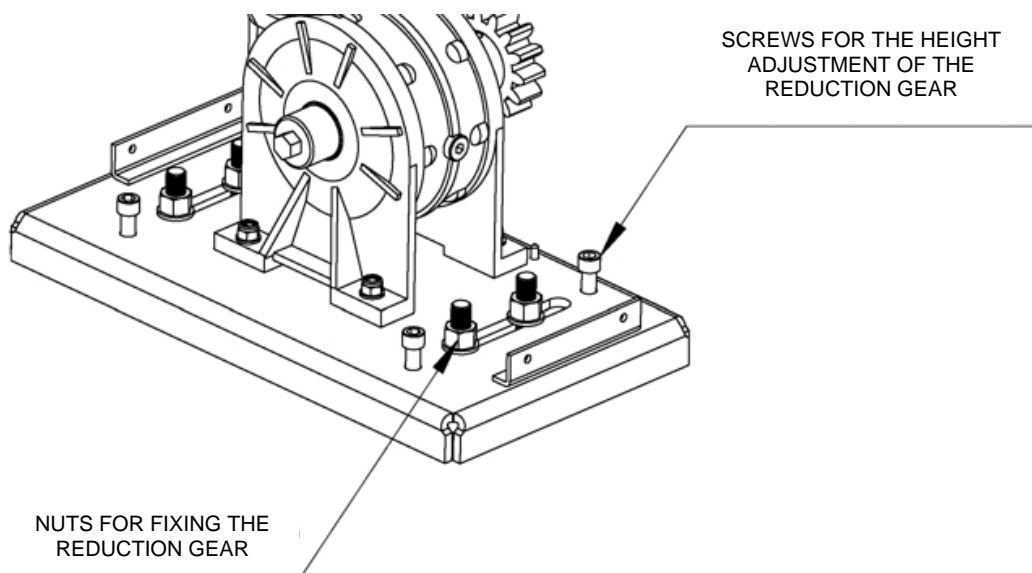


Fig. 6

FIXING OF RATCHET

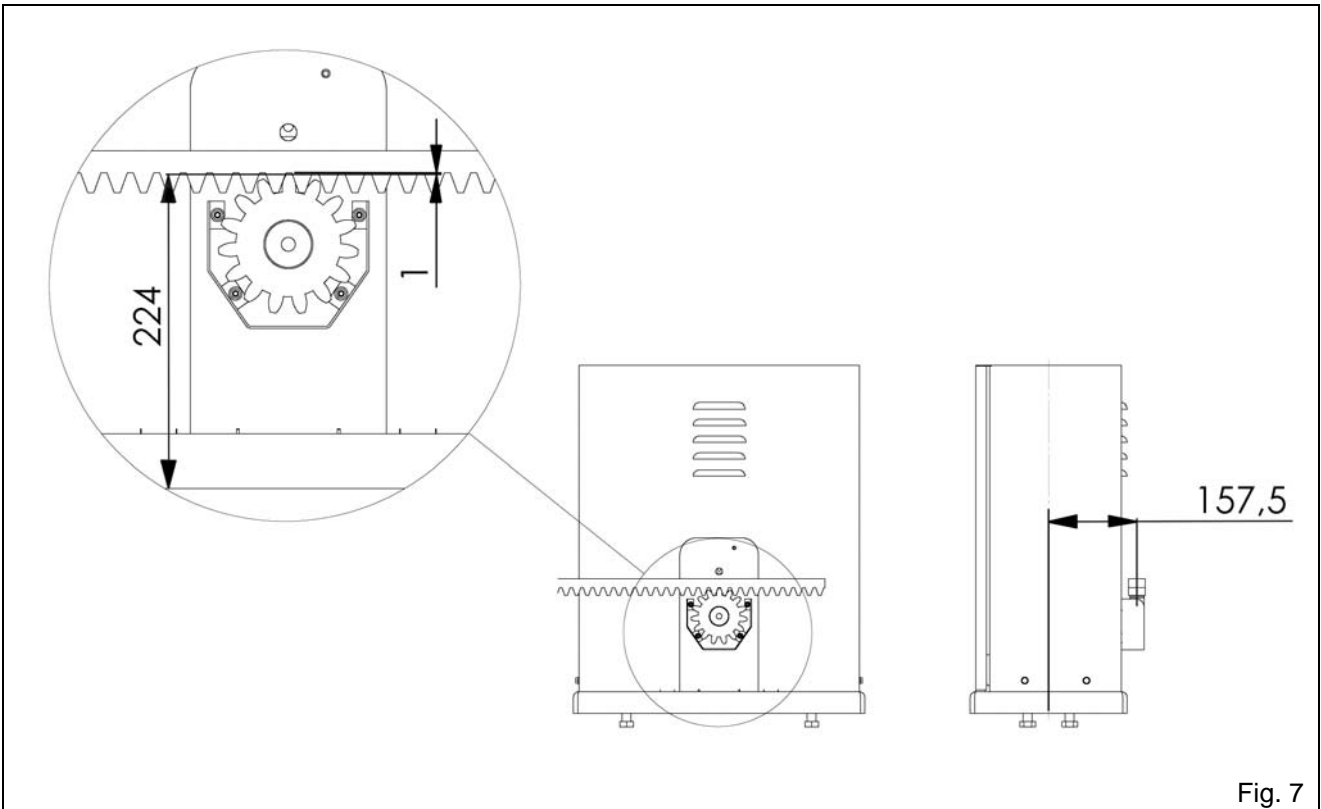


Fig. 7

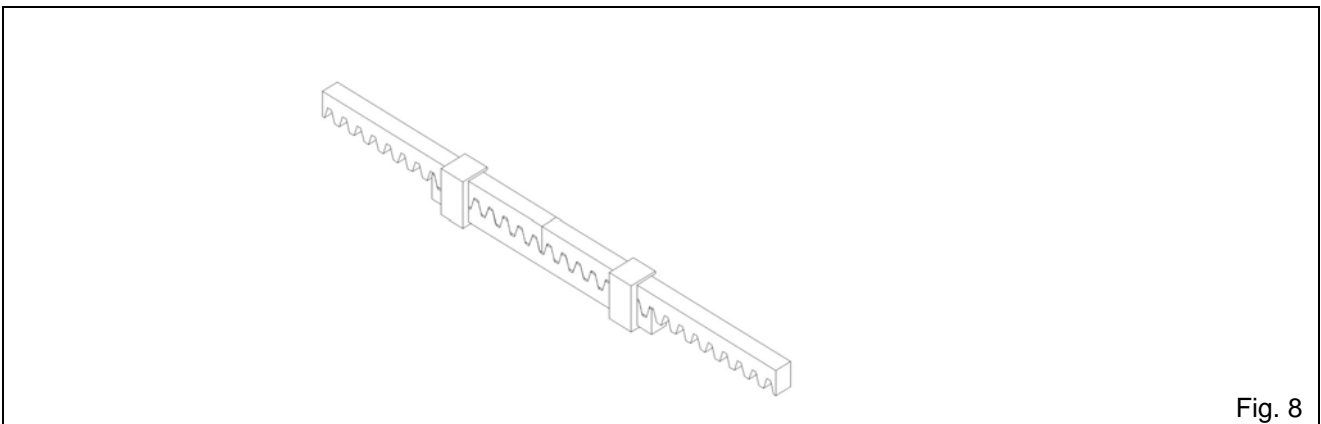


Fig. 8

For the correct installation of the ratchet unlock the reduction gear as shown in fig. 3 and bring the gate to complete aperture.

Lay one element of the ratchet on the pinion and fix the latter with screws and tingles to the gate.

Manually move the gate bringing the pinion in correspondence with the last tingle. Definitively fix the element of the ratchet.

For the correct positioning of the other elements and to ensure they are straight it is necessary to use a ratchet element using it as reference and support Fig. 8.

Moreover it is necessary to ensure some air between the ratchet and the pinion of about 1 mm(indicative measure), so that the weight of the gate does not bear upon the pinion of the reduction gear Fig. 7.

FIXING LIMIT DEVICE

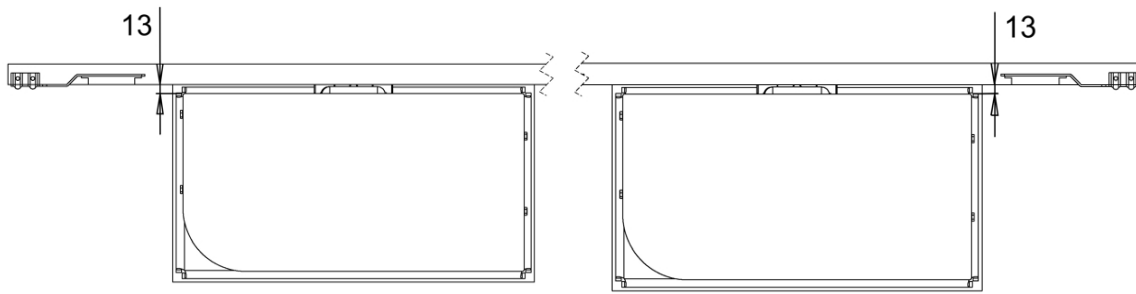


Fig. 9

The gate must feature check stops for aperture and closure that prevent the gate from derailing. The position of the check stop must ensure that the limit devices do not collide with the pinion. Manually open the gate leaving, based on the weight of the gate, a space between 30 and 50 mm. between the gate and the mechanical stop. Fix the limit device using the pins (fig. 10) leaving a space between the magnetic limit device and the reduction gear of approximately 13 mm (fig 9), and repeat the operation with the gate closed.

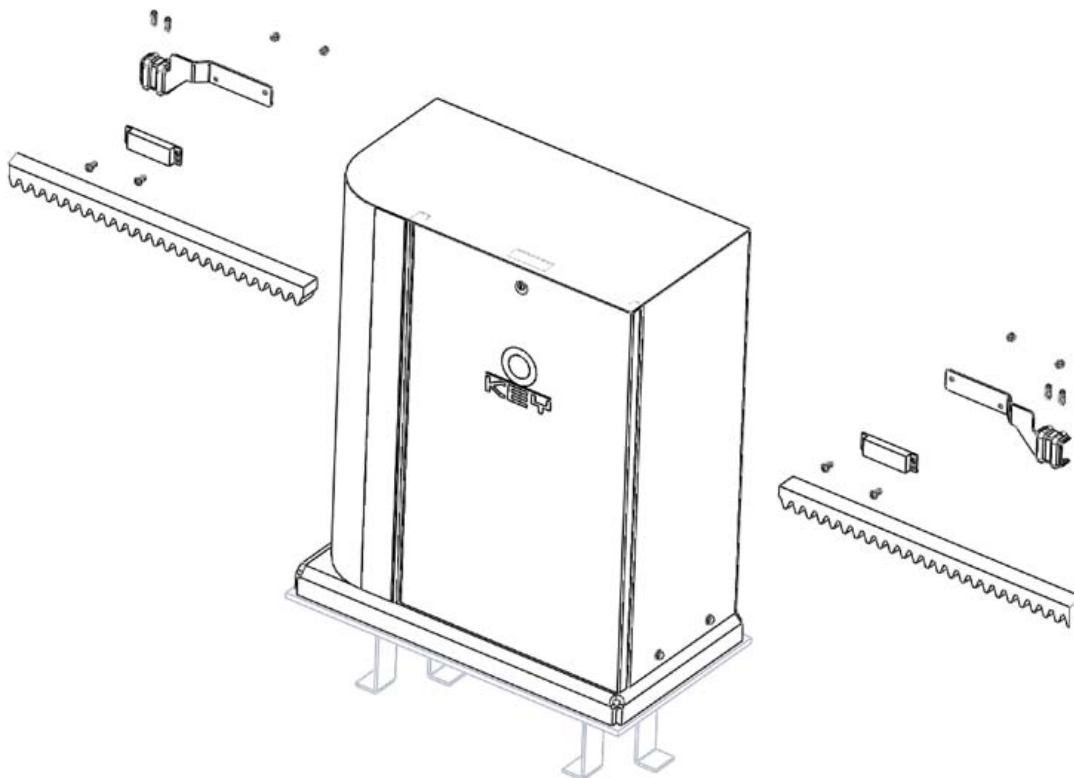


Fig.10

MAINTENANCE



DANGER: for any kind of maintenance, disconnect the power supply.
 The gear motor is supplied with permanent lubrication grease and therefore does not require maintenance.
 Cables, springs, and supports do not require periodic maintenance.
 In the event of malfunction, the system must not be used. Contact specialized personnel.

GENERAL WARNINGS

- Attach labels that warn against crushing in a highly visible place or near the fixed controls;
- Permanently attach the labels concerning manual release and place them near the manoeuvre device;
- Markings must be visible even after the device has been installed. If markings are hidden after installation, this must be indicated in the instructions.
- The movement motors must be provided with a label that instructs to keep children away from the moving door, or place the appropriate symbol (ISO 3864, see symbol)

FINAL RECOMMENDATIONS

Keep the remote control out of the reach of children and do not let them play with the control devices.

- Provide the system with safety devices such as: photocells and a sensor rib.
- Realize the system in compliance with current standards.
- It is absolutely necessary for the door to be provided with check stops prior to installation of the reduction gear.
- All maintenance, repair and adjustment must be carried out by qualified personnel.
- Motors with pressure-sensitive systems must be equipped with a label that says **ATTENTION: RISK OF CRUSHING.**

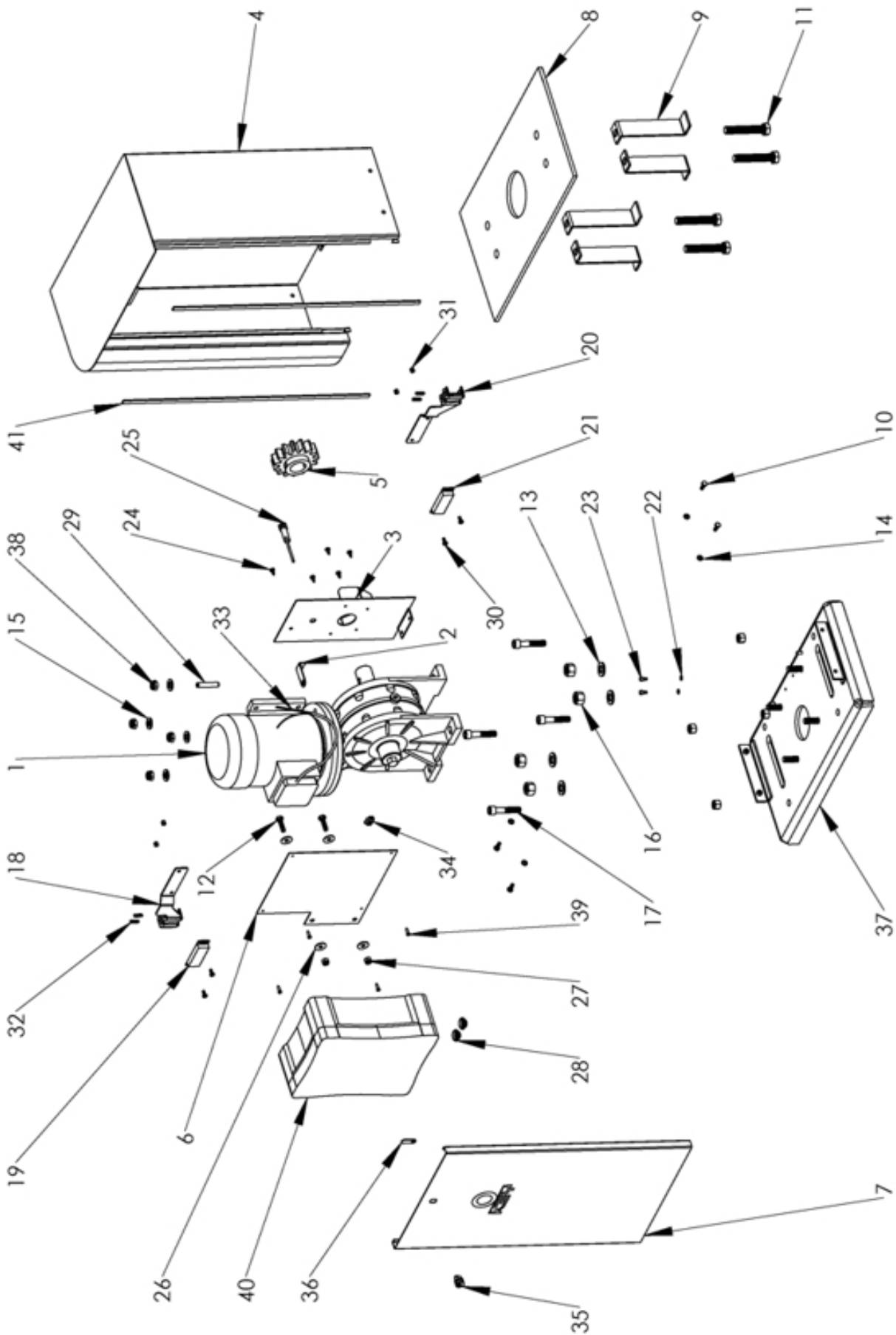
DISPOSAL



Dispose of materials in compliance with current standards.

CATALOGO RICAMBI
SPARE PARTS CATALOGUE
CATALOGUE DES PIÈCES DE RECHANGE

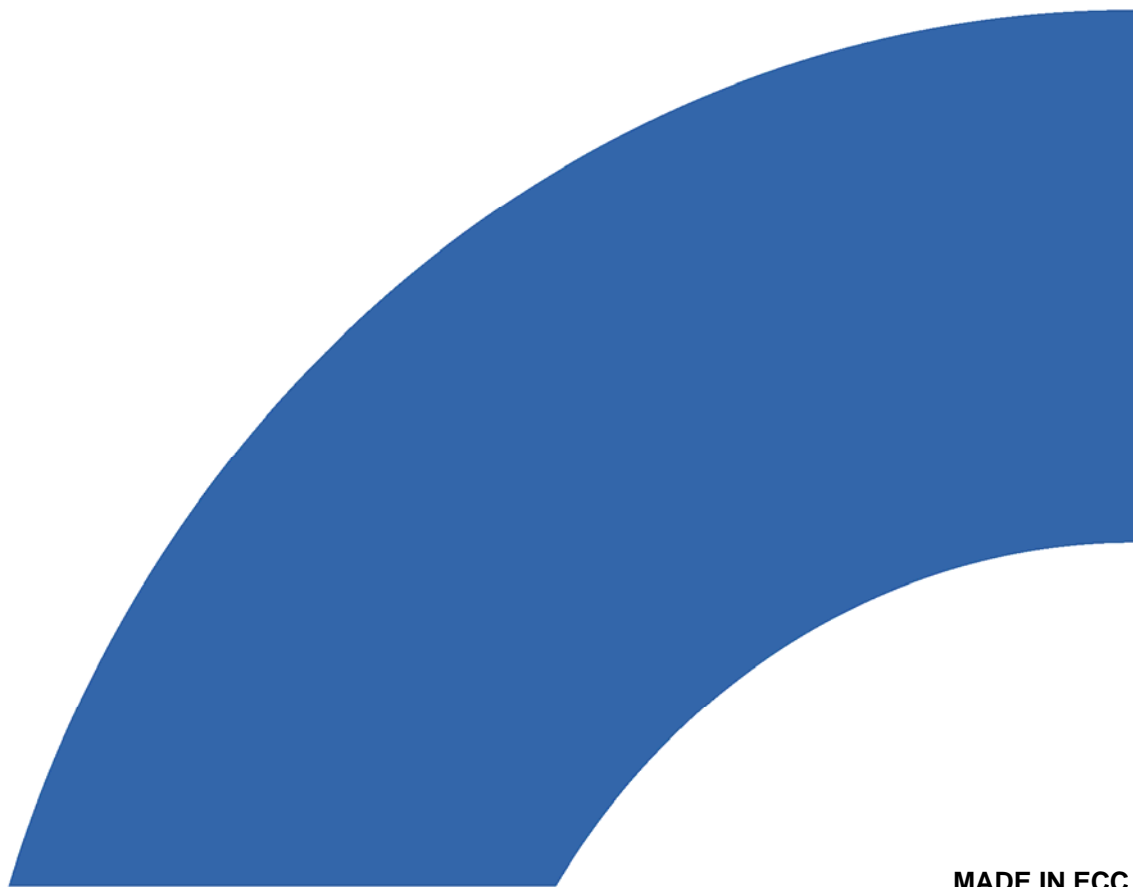
ERSATZTEILKATALOG.
CATÁLOGO DE REPUESTOS
CATÁLOGO DE PEÇAS SOBRESSALENTES



ELENCO PEZZI DI RICAMBIO
LIST OF SPARE PARTS
LISTE DES PIÈCES DE RECHANGE

ERSATZTEILLISTE
LISTA DE PIEZAS DE RECAMBIO
LISTA DE PEÇAS SOBRESSALENTES

| | | | |
|----|----------------|----|--------------|
| 1 | 470MOTRISC-400 | 27 | 400DAM8 |
| 2 | 520STPOFC | 28 | 130PCSN-20 |
| 3 | 520STTEFLAV | 29 | 410SE10X50 |
| 4 | 510ARM400V | 30 | 390V5X12 |
| 5 | 480RM6Z15 | 31 | 400DAM5 |
| 6 | 520STPOQUADRO | 32 | 400GM6X10 |
| 7 | 510PORTA400V | 33 | 550CAALSC400 |
| 8 | 520CPSC-400 | 34 | 110ME12 |
| 9 | 520ZANSC-400 | 35 | 420S2151B-KA |
| 10 | 390V6X15TE | 36 | 420LC027 |
| 11 | 390V16X90 | 37 | 520BASE-400 |
| 12 | 390V8X30TCE | 38 | 400DAM12B |
| 13 | 410RD16 | 39 | 390V3-9X16C |
| 14 | 410RD6 | 40 | 900CT380 |
| 15 | 410RD12 | 41 | 540GUADE400 |
| 16 | 400DM16 | 42 | |
| 17 | 390V12X60TCE | 43 | |
| 18 | 520STSXD | 44 | |
| 19 | 480MAG892514B | 45 | |
| 20 | 520STDXD | 46 | |
| 21 | 480MAG892514R | 47 | |
| 22 | 410RDDE5 | 48 | |
| 23 | 390V5X10TCE | 49 | |
| 24 | 390V4-8X13I | 50 | |
| 25 | 480SENSFI400 | 51 | |
| 26 | 410RGD8X24 | | |



MADE IN ECC