



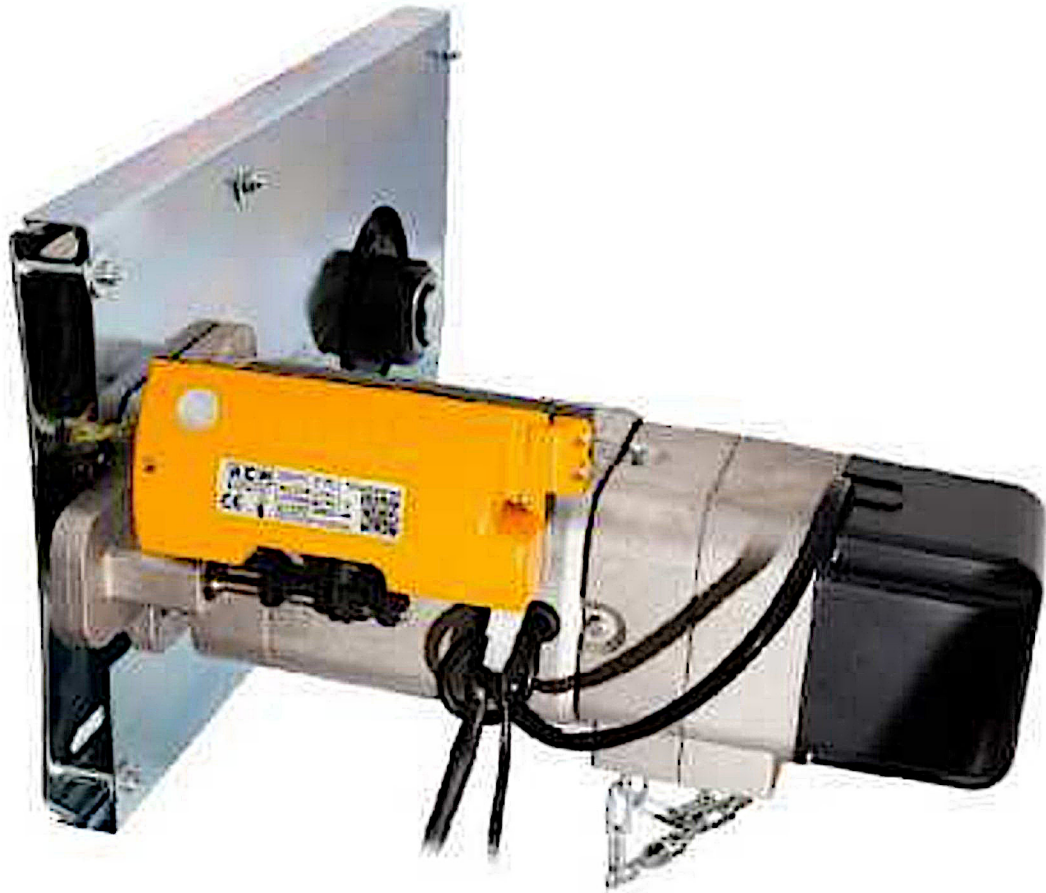
ITALIAN ROLLING POWER



Puertas & Portones Automaticos, S.A. de C.V.

¡Nuestra pasión es la Solución!....

» OPERADOR MOTOR LATERAL 600KGS USO MEDIO MARCA ACM
MOD. TITANSIDE.



● MOD. TITAN SIDE 600
(SA-00005-00)

MANUAL DE INSTALACION



Versión Digital.

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VERSION 2
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V03.24



RESIDENCIAL



COMERCIAL



INDUSTRIAL

MEMBER



International Door Association



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IMPORTANT SAFETY INSTRUCTIONS

WARNING: follow these personal safety instructions very carefully. Incorrect installation may create serious risks. Save this manual for future reference.

- **Read the instructions carefully before starting to install.**
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- This product was designed and built strictly for the use indicated in this documentation.
- Continuously monitor the gate while it is in motion and keep all persons away from it until the door is completely opened or closed.
- The manufacturer declines all liability in the event of incorrect installation or improper use of the product.
- Warning: actuating the emergency release may cause uncontrolled door movement.
- Frequently examine the installation, in particular check cables, springs and mountings for signs of wear, damage or imbalance. Check that the set screw on the last element of the shutter is properly tightened. Do not use the equipment if it requires repair or regulation.
- Before installing the drive check that the door is in good mechanical condition and that it is correctly balanced. Check that it opens and closes properly.
- Install the release control at a maximum height of 1.8 m.
- Any fixed controls must be installed within sight of the door but away from moving parts. It must be installed at a height of at least 1.5 m.
- Attach a label near the operating device, in a permanent fashion, with information on how to operate the manual release.
- Permanently fix a label warning against entrapment in a prominent place or just near any fixed control.
- The motor cannot be installed on panels incorporating doors (unless the motor can be activated when the door is open).
- Following the assembly please ensure that the door elements do not project out on public footpaths or roads
- The drive is intended to be installed at least 2.5m above the floor.
- Do not install the gearmotor in presence of fumes or inflammable gas.
- The mechanical parts must conform to the provisions of standard EN 12604 and EN 12605.
- Manufacturer is not responsible for failure to observe good technique in the construction of the dosing elements to be motorised, or for any deformation that may occur during use.
- The installation must conform to standards EN 12453 and 12445.
- **WARNING: Before start any job on the system, cut out electrical power.**

- The mains power supply of the automated system must be fitted with an all-pole switch with contact opening distance of 3mm. Use of a 6 A thermal breaker with all-pole circuit break is recommended.
- Make sure that the earth system is perfectly constructed.
- The safety devices (photoceils , etc.) protect any danger areas against mechanical movement risks, such as crushing, dragging, and shearing.
- Use of at least one indicator-light is recommended for every system, as well as a warning sign, in addition to the safety devices.
- Do not command more than one gearmotor with each button.
- For maintenance, exclusively use original parts.
- Do not in any way modify the components of the automated system.
- The mains cable must only be replaced by the manufacturer, customer service or another qualified person. For connection to the mains power supply, use a multicore cable with a cross-section between 4x0.75mm² and 4x1.5mm².
- The installer shall supply all information concerning manual operation of the system in case of an emergency, and shall hand over to the user the warning handbook supplied with the product.
- Apply safety devices that meet standard EN 12978 to provide full protection against impact, crushing and shearing in conformity with the provisions of standard EN 12453.
- The installation must include a fall arrest system for the shutter, such as the parachute shown in the instructions.
- Do not allow children or adults to stay near the product while it is operating.
- Keep radio controls or other pulse generators away from children, to prevent the automated system from being activated involuntarily.
- The user must not attempt any kind of repair or direct action whatever and contact qualified personnel only.
- Transit is permitted only when the automated system is idle.
- Maintenance: check at least every 6 months the efficiency of the system.
- Sound emission: LpA ≤ 70dB;
- **Anything not expressly specified in these instructions is not permitted.**

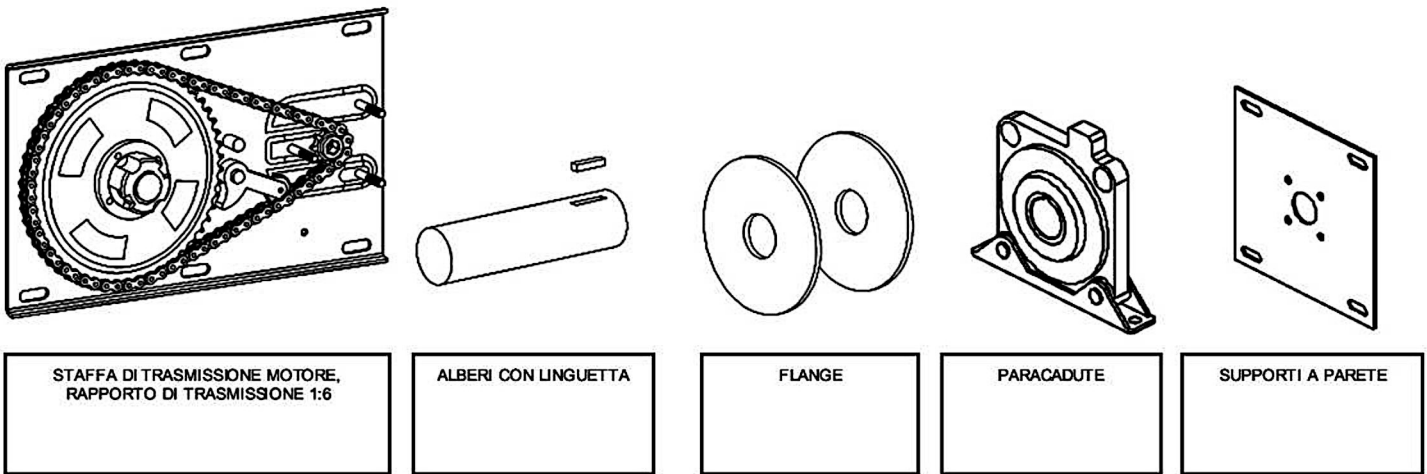
DESCRIPTION

The TITANSIDE is a side gear motor for rolling shutters without compensation springs for both domestic and industrial use. The TITANSIDE models 600 and 300 are single-phase motors and cover different needs of application allowing to lift big shutters with a total weight of up to 600Kg.

PARTS LIST PROVIDED

1	Gearmotor
2	Instructions

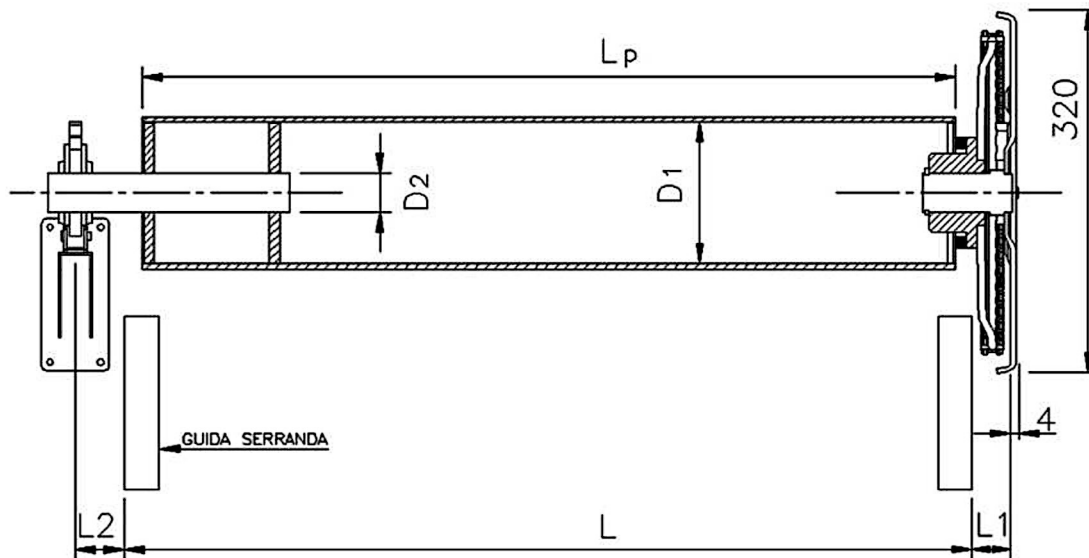
The gear motor TITANSIDE can be supplied with the following accessories:



INSTALLATION INSTRUCTIONS

TYPICAL SHUTTER INSTALLATION

Before installation, it is necessary to measure the width of the shutter, measuring it on the bottom of the guides (THE). This will make it possible to determine the length of the tube (L_p) and the fixing position of the supports of the transmission bracket and the parachute. Figure 1 shows the installation of the gearmotor to the right of the shutter seen from inside. After attaching the wall brackets you can place the shutter in the guides



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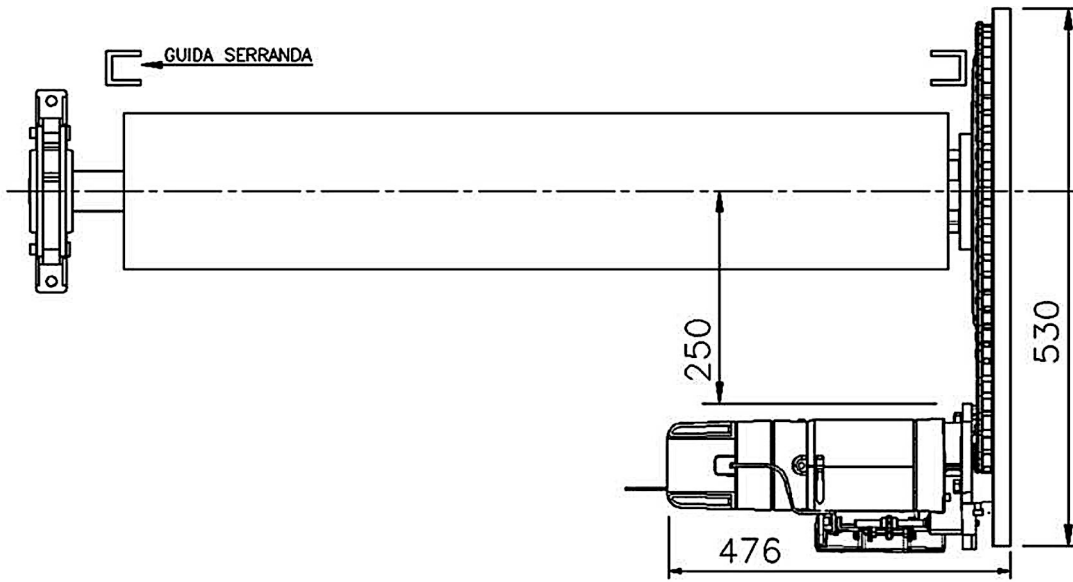


FIG. 1

PREPARATION OF THE WINDING AXIS

After cutting the tube to the previously determined length, make the threaded holes on the axis necessary for affixing the shutter. Insert the flanged shaft inside the tube and proceed with the welding of the flange as shown in Figure 2 (parachute side); Insert the grooved flange on the motor side and weld the tube.

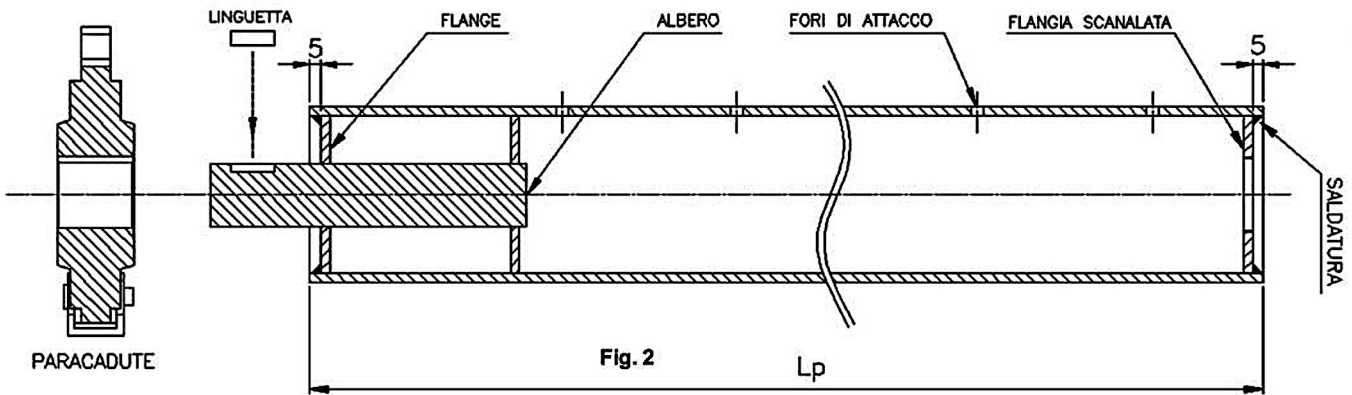


Fig. 2

Referring to Fig.3b, insert the tube on the drive wheel hub by matching the previously welded slotted flange. Slide the shaft with the tab, into the parachute location (fig.03a). **CAUTION:** check that the direction of the arrow printed on the parachute matches the downward direction of the shutter.

LATO PARACADUTE – PARACHUTE SIDE

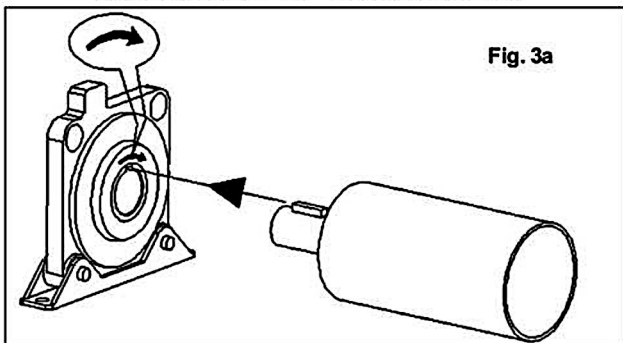


Fig. 3a

LATO MOTORE – MOTOR SIDE

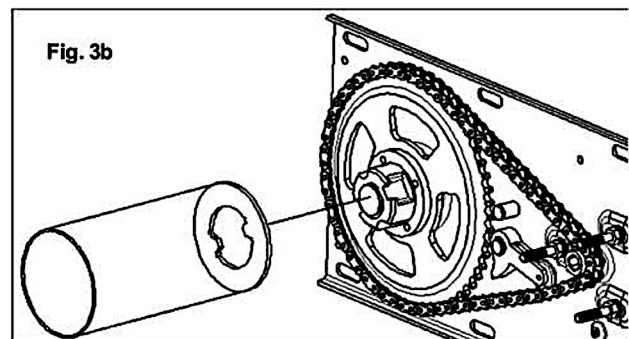
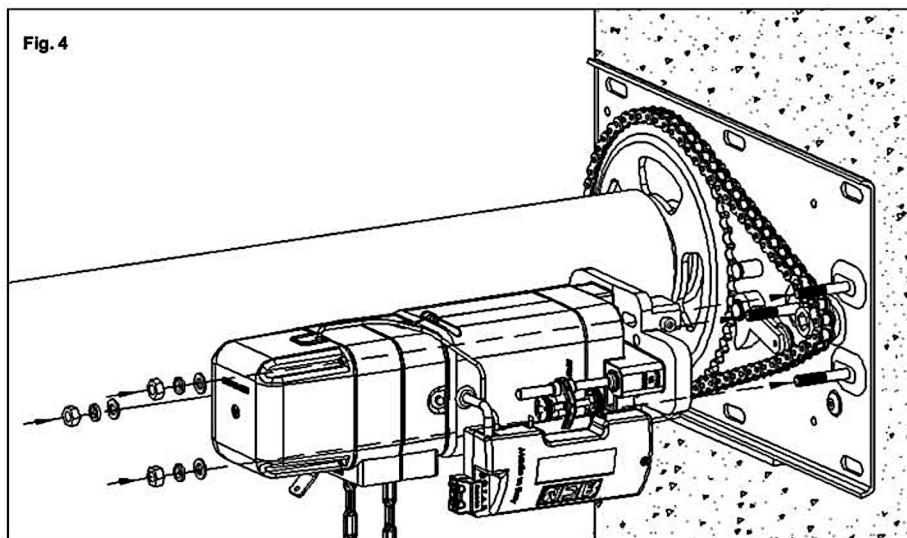


Fig. 3b

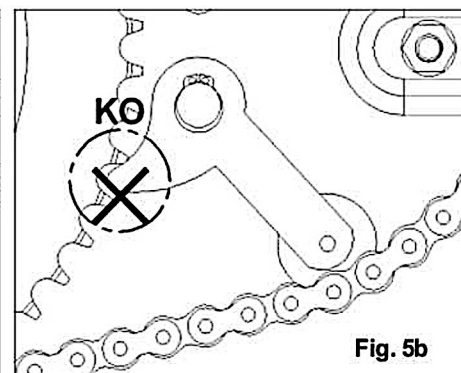
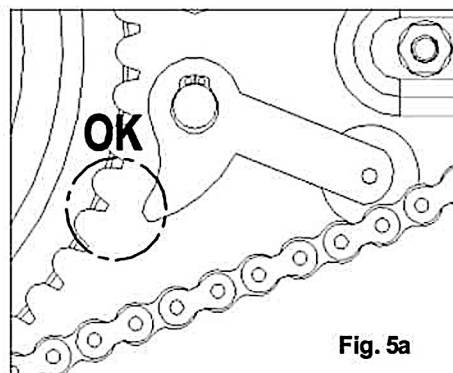
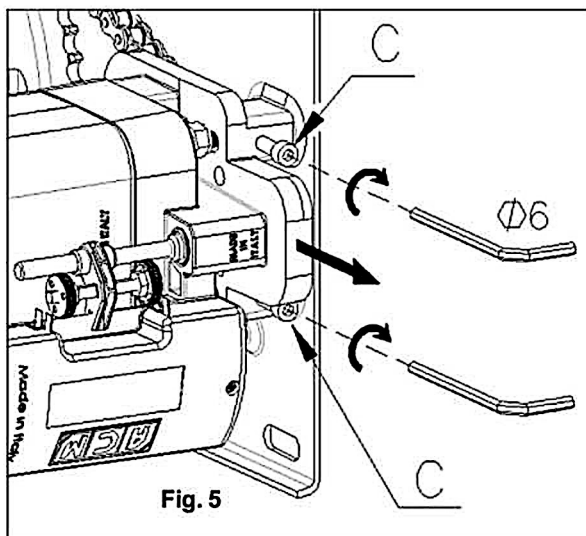
INSTALLATION OF THE GEAR MOTOR

The gearmotor provided is configured for installation to the right of the shutter seen from inside. However the system is arranged to be installed on both right and left as shown in Fig. 8 and 9. After fixing the winding shaft, assemble the motor on the bracket transmission by matching the three pins with the respective locations of the gear unit (see Figure 4). At this point push the stop bracket on the engine, fitting the trap hex drive shaft in the seat of the toothed pinion. Tighten the gear motor using the three M10 nuts.



ADJUSTING THE TENSIONER

The transmission bracket is equipped with an integrated system to act as both a parachute and chain tensioner. The parachute locks the shutter in the event the chain breaks while the chain tensioner, in constant mesh, ensures the transmission functions properly. The chain tensioner is adjusted by screwing the two adjusting screws (C) shown in fig.5. By acting in this way, the motor is moved, which being connected to the transmission system, tensions the chain. Fig 5a shows the correct position of the system after the adjustment.



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INSTALLATION OF THE MOTOR TO THE LEFT

Figures 6 and 7 show the configuration for the installation to the left of the geared motor and the transmission bracket.

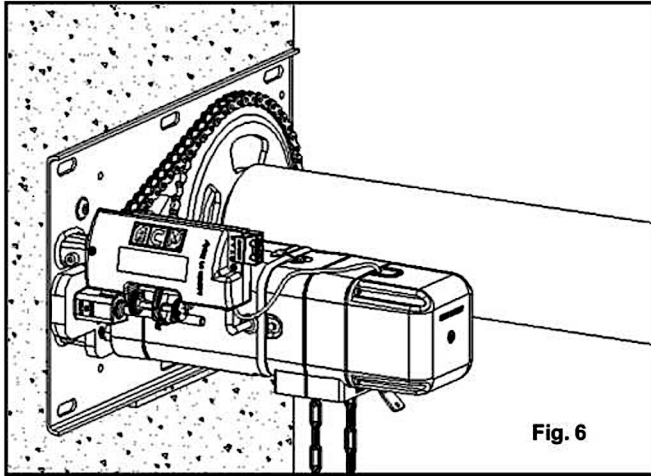


Fig. 6

INSTALLAZIONE A SINISTRA DEL MOTORIDUTTORE

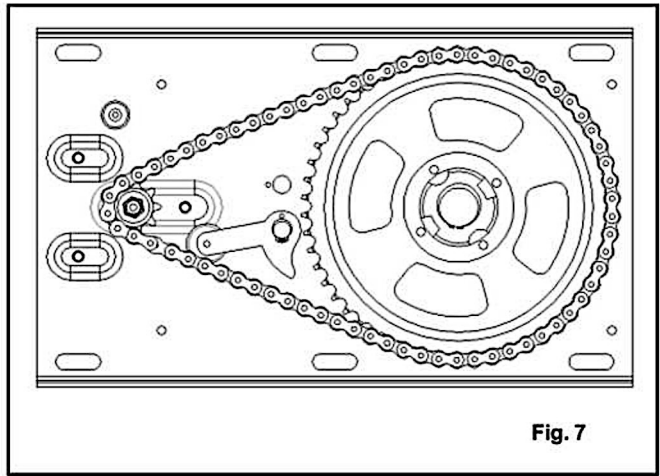


Fig. 7

CONFIGURAZIONE A SINISTRA DELLA STAFFA

For the configuration on the left of the gear motor, proceed as follows: Unscrew the 4 screws (D) shown in Figure 8 to release the electric brake assembly. Rotate the brake assembly 180 ° rotation in such a way that the chain, used for the manual operation, is facing perpendicularly downward. At this point push the brake assembly to overcome the resistance of the internal spring and proceed to tighten the 4 screws that were previously loosened. **Caution:** verify that the 4 screws fit properly into the groove of the electric motor as shown in the Figure 8 detail. This operation is essential for the proper functioning of the electric brake assembly.

For the configuration to the left of the transmission bracket, proceed as follows: Remove the parachute system from the pin (1) and turning it 180 °, mount it on the pin (2) as shown in Figure 9; Insert the spring (M) between the two holes for med respectively on the bracket and on the parachute system. At this point, collapse the group and secure it with the snap ring.

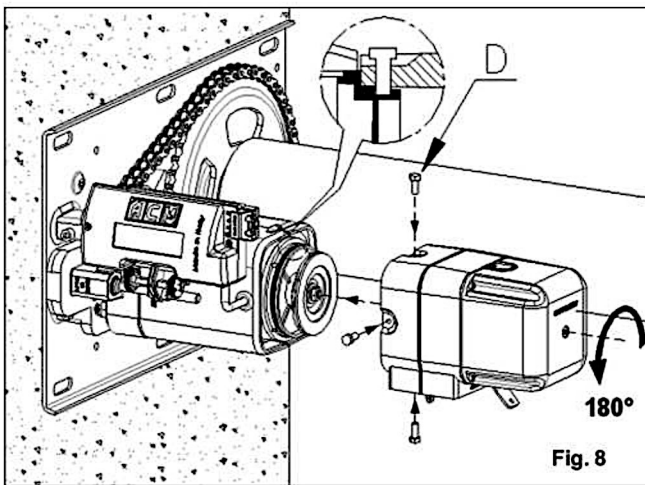


Fig. 8

INVERSIONE DEL GRUPPO FRENO - BRAKE SYSTEM INVERSION

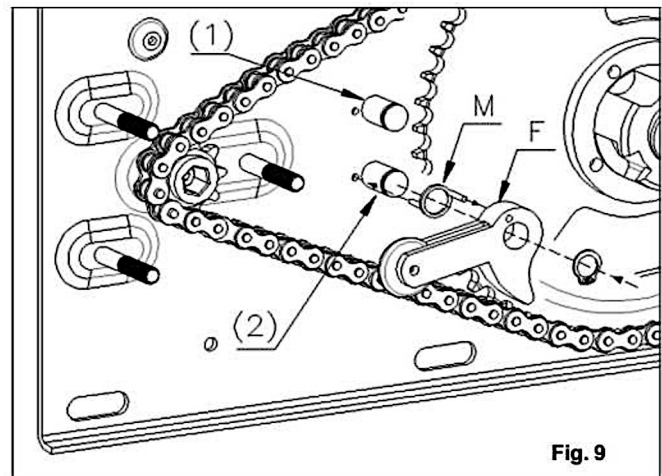


Fig. 9

INVERSIONE DEL SISTEMA PARACADUTE - PARACHUTE INVERSION

ELECTRICAL CONNECTIONS

Connect the power cable inside the limit switch as shown in Figure 10 with the proper cable arrangement. Lock the power cable by tightening the cable-glands (P). Connect the earth cable to the bracket of transmission as indicated in Figure 11.

MANUAL DE INSTALACION



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Technical data

MODELLO model	POTENZA Power (W)	COPPIA MAX Max Torque (Nm)	SOLLEVAMENTO Lifting (Kg)	r.p.m.	FINECORSA Limitswitch (m)	TEMPO TERMICA Work time (min)	TIPO CATENA Chain	DIAMETRO MAX. PORTA Ø max door (m)
TITANSIDE 600	370	412	600	4.6	6	5	10A	0.44



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