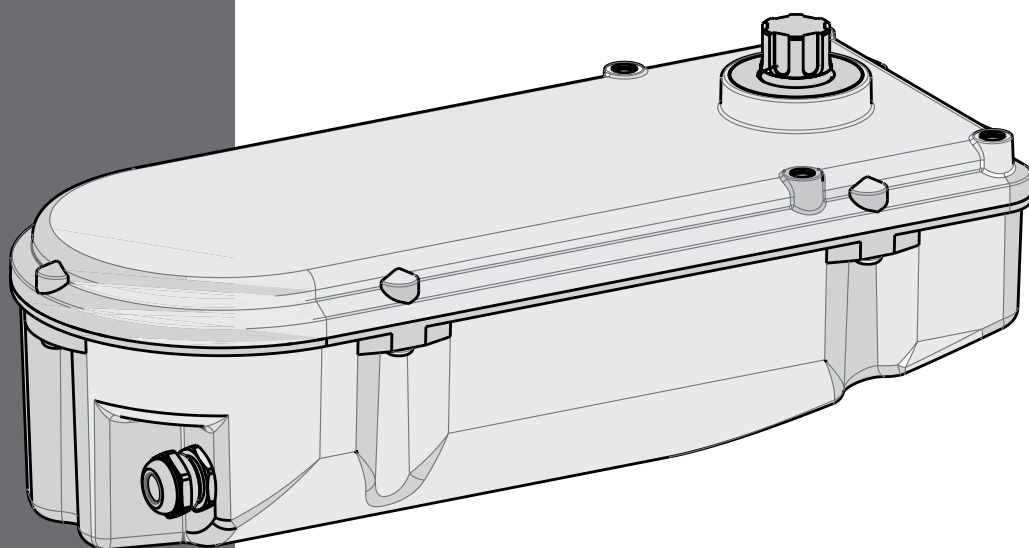


R18 Series



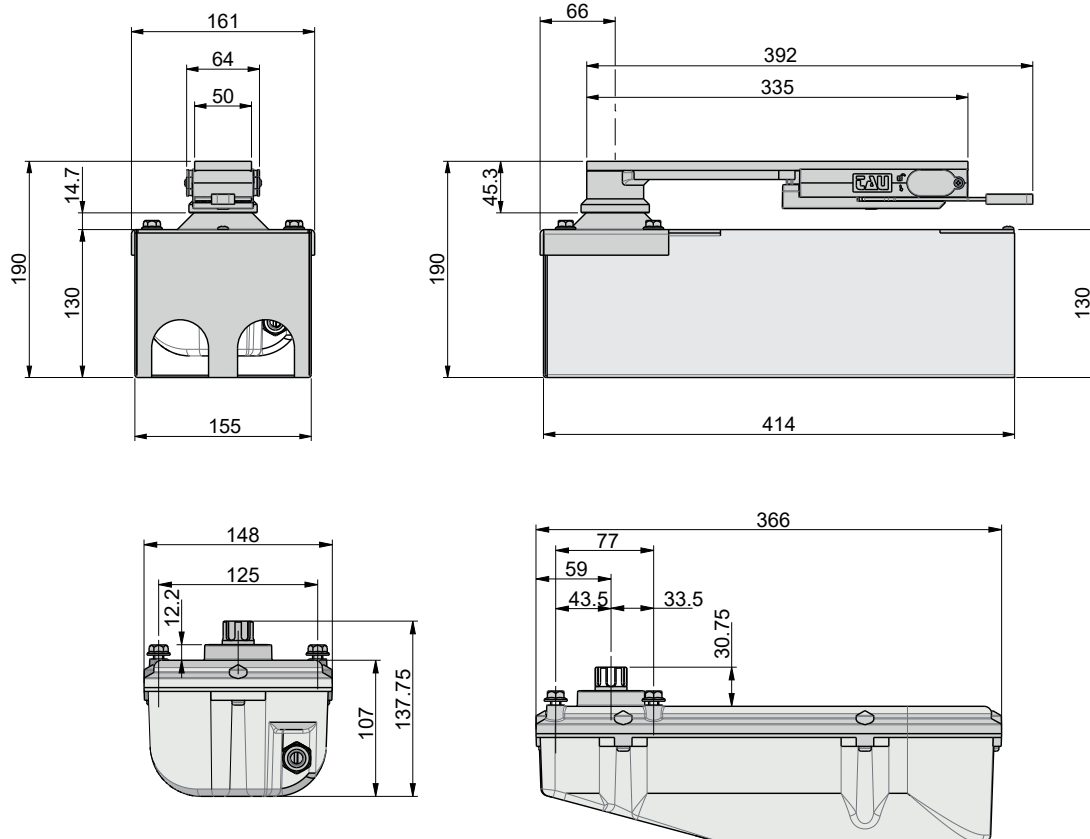


fig. 1

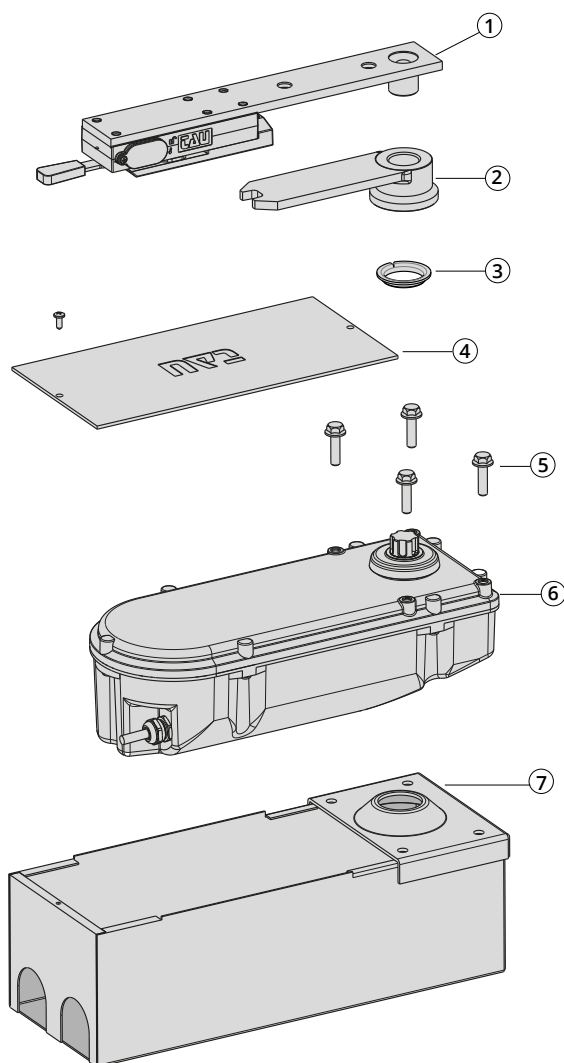
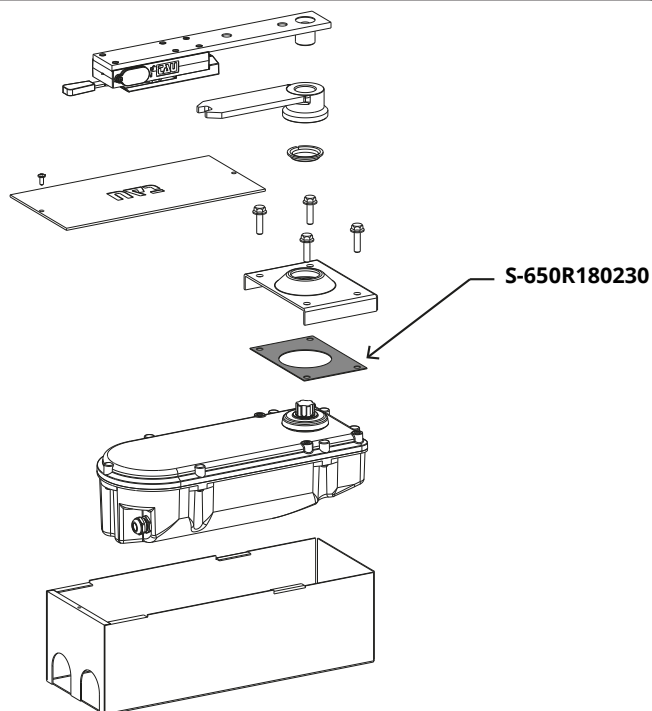


fig. 2

*



*

Lamierino di spessoramento da inserire solo nel caso le casse di fondazione siano state prodotte prima del 2025.
Non necessario per casse di fondazione prodotte dal 2025 in poi.

Shim plate to be inserted only if the foundation boxes were produced before 2025.

Not necessary for foundation boxes produced from 2025 onwards.

Unterlegblech nur einlegen, wenn die Fundamentkästen vor 2025 produziert wurden.

Für Fundamentkästen ab Produktionsdatum 2025 nicht mehr erforderlich.

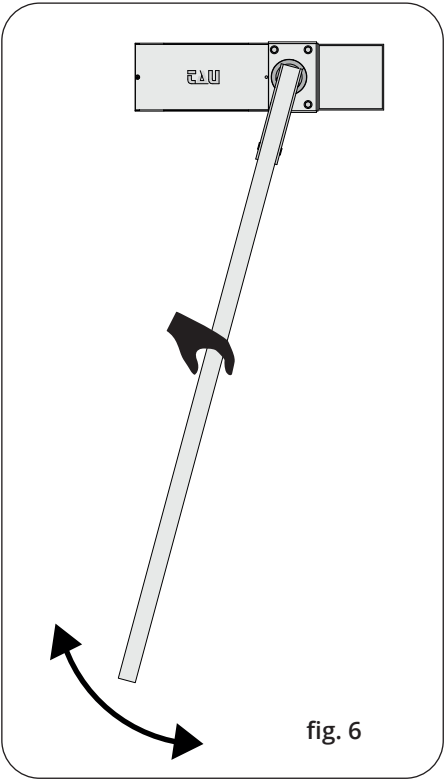
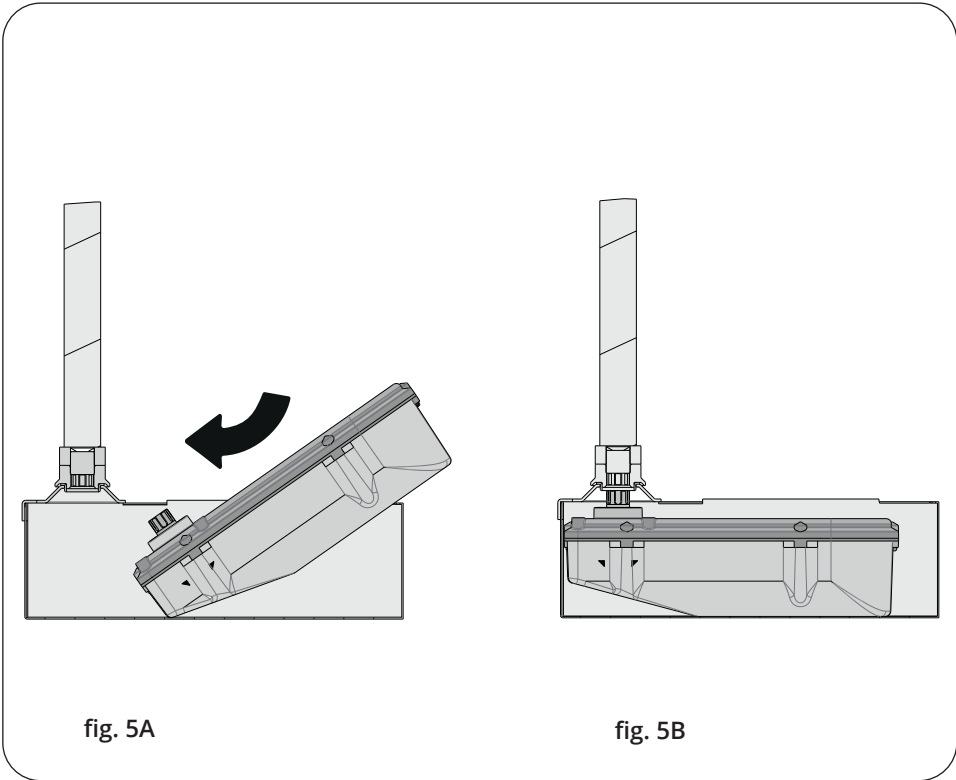
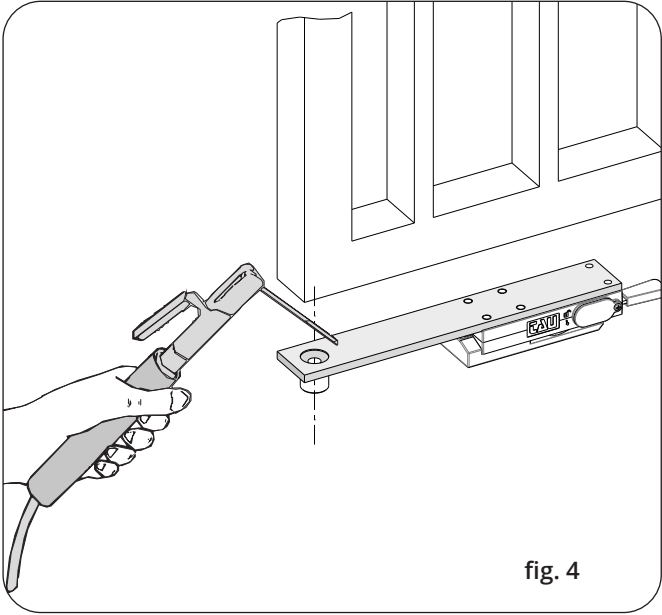
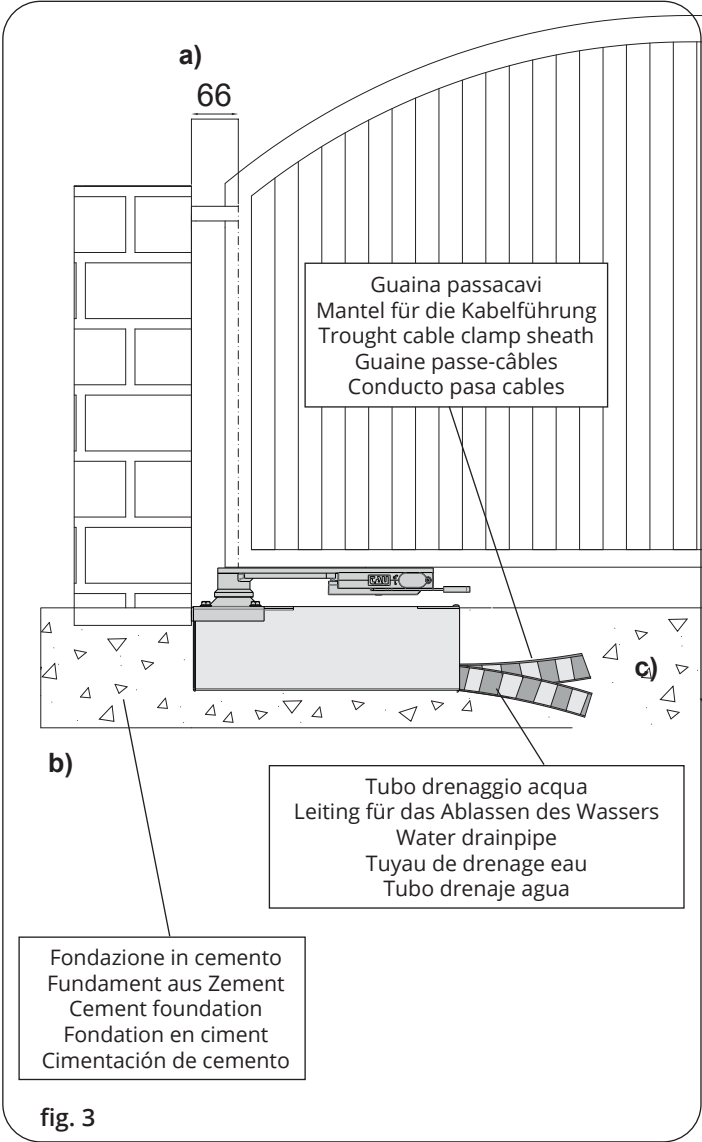
Cale à insérer uniquement si les caissons de fondation ont été produits avant 2025.

Non requis pour les caisses de fondation produites à partir de 2025.

La placa de calce se debe insertar solo si las cajas de cimentación se fabricaron antes de 2025.

No es necesario para cajas de cimentación producidas a partir del año 2025 en adelante.

* Placa de calço a ser inserida apenas se as caixas de fundação tiverem sido produzidas antes de 2025.
Não é necessário para caixas de fundação produzidas a partir de 2025.



PREDISPOSIZIONI OPERE MURARIE (fig. 7) E IMPIANTO TIPO R18 (fig. 8), R18BENC/L - R18BENCVEL (fig. 9)

- | | |
|---------------------------|----------------------------|
| 1) Motoriduttore | 5) Fotocellule a parete |
| 2) Centralina | 6) Battenti |
| 3) Selettore a chiave | 7) Fotocellule a colonnina |
| 4) Antenna e lampeggiante | 8) Elettroserratura |

ARRANGEMENT OF WALL INTERVENTIONS (fig.7), TYPICAL R18 SYSTEM (fig. 8) AND TYPICAL R18BENC/L - R18BENCVEL SYSTEM (fig. 9)

- | | |
|------------------------------|----------------------------|
| 1) Gearmotor | 5) Wall-mounted photocells |
| 2) Control unit | 6) Gate stops |
| 3) Key switch | 7) Photocells on post |
| 4) Aerial and flashing light | 8) Electric lock |

VORBEREITUNG VON WANDARBEITEN (Abb. 7), ANLAGE TYP R18 (Abb. 8) UND ANLAGE TYP R18BENC/L - R18BENCVEL (Abb. 9)

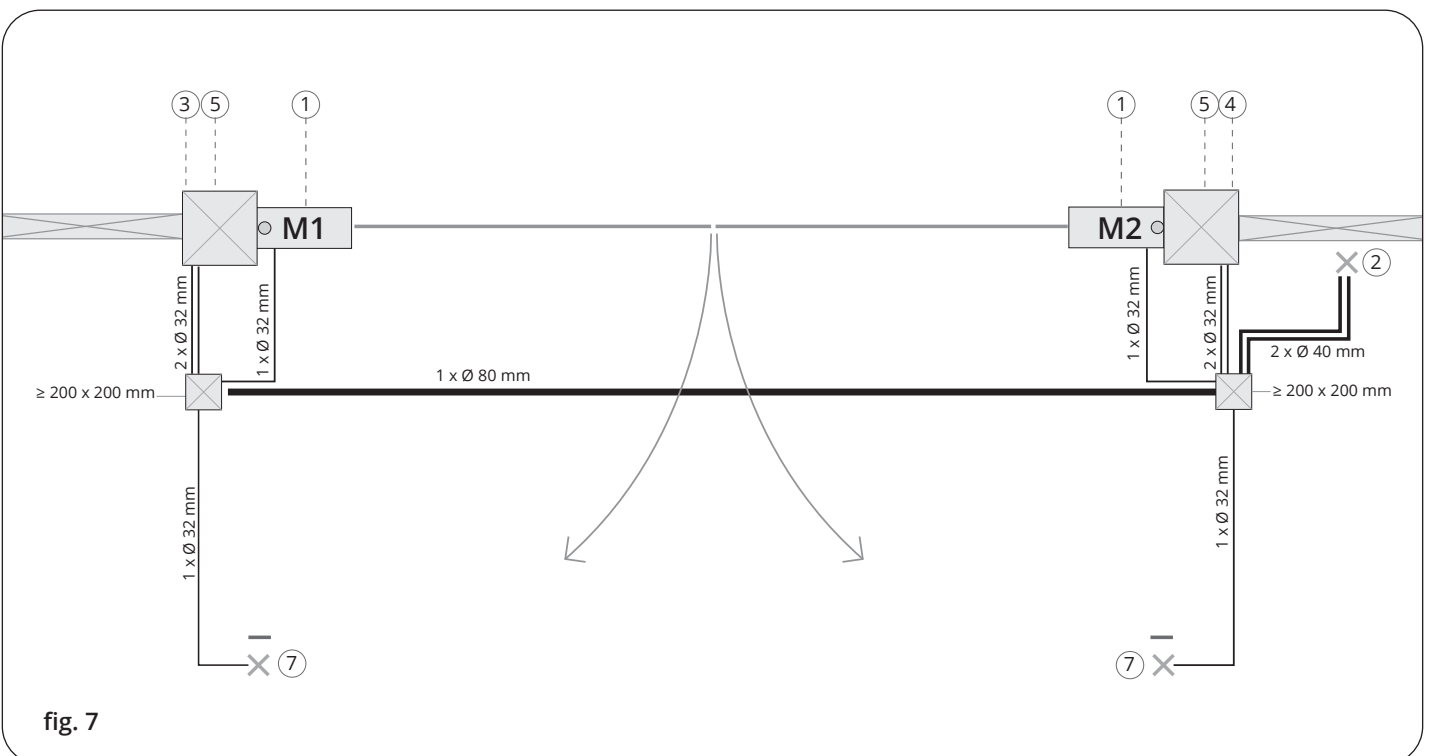
- | | |
|-----------------------------|----------------------------|
| 1) Getriebemotor | 5) Photozellen an Mauer |
| 2) Steuerzentrale | 6) Anschläge |
| 3) Schlüsselschalter | 7) Photozellen auf Ständer |
| 4) Antenne und Blinkleuchte | 8) Elektroschloss |

PRÉPARATION DE TRAVAUX DE CONSTRUCTION (fig. 7), INSTALLATION TYPE R18 (fig. 8) ET INSTALLATION TYPE R18BENC/L - R18BENCVEL (fig. 9)

- | | |
|--------------------------|------------------------------|
| 1) Motoréducteur | 5) Photocellules murales |
| 2) Logique de commande | 6) Battants |
| 3) Sélecteur a clé | 7) Photocellules sur colonne |
| 4) Antenne et clignotant | 8) Serrure électrique |

PREPARACIÓN OBRAS DE ALBAÑILERÍA (fig.7), INSTALACIÓN TIPO R18 (fig. 8) Y INSTALACIÓN TIPO R18BENC/L - R18BENCVEL (fig. 9)

- | | |
|------------------------------|----------------------------|
| 1) Motorreductor | 5) Fotocélulas de pared |
| 2) Centralita | 6) Topes |
| 3) Selector de llave | 7) Fotocélulas en columnas |
| 4) Antena y luz intermitente | 8) Electrocerradura |



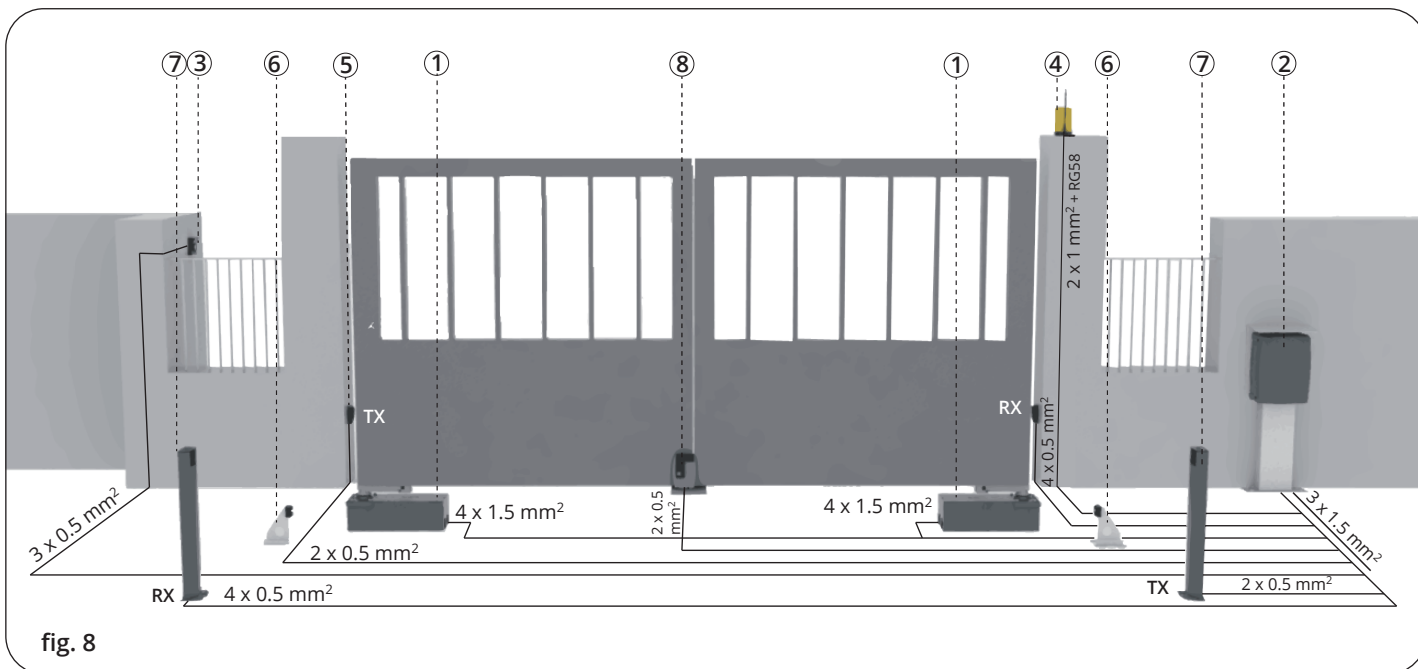


fig. 8

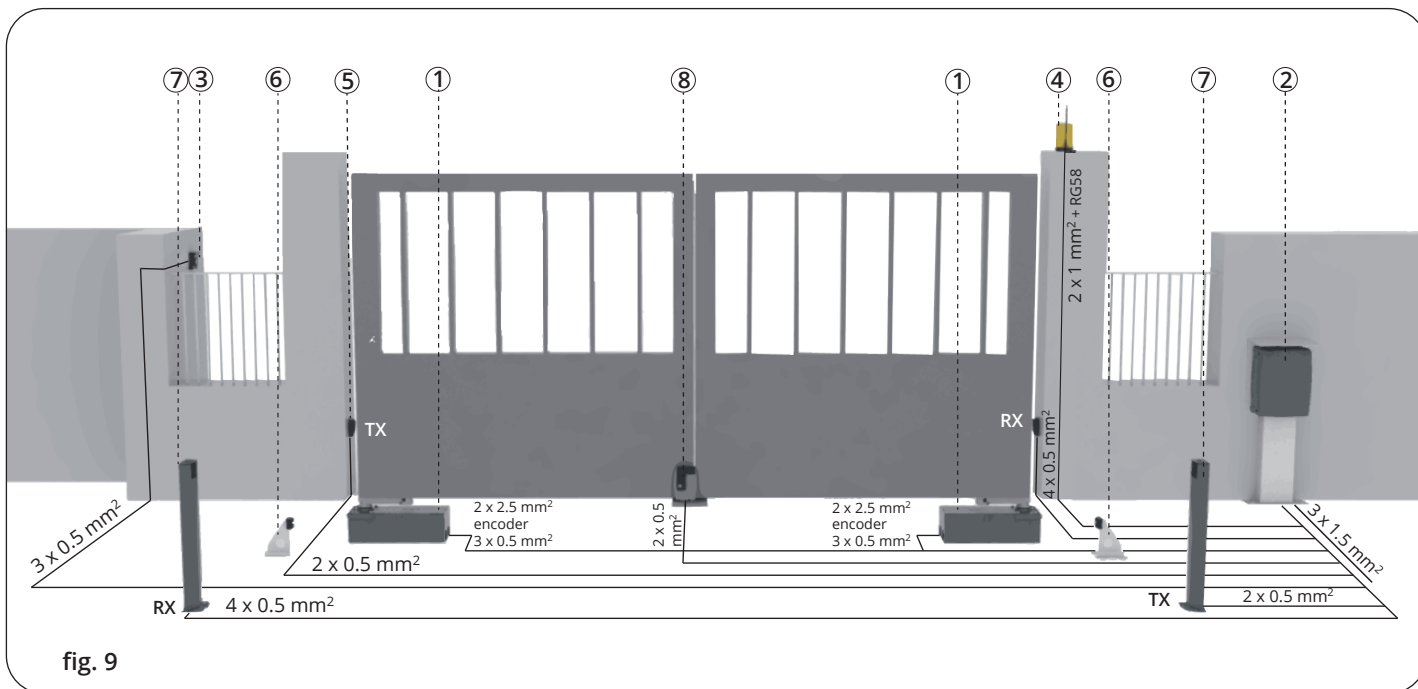
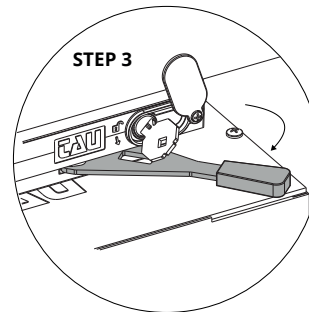
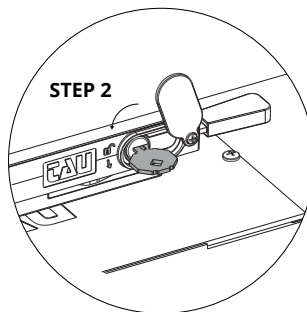
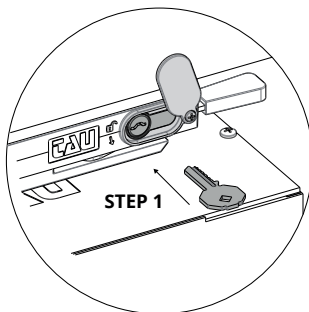
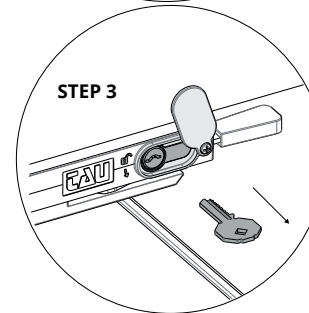
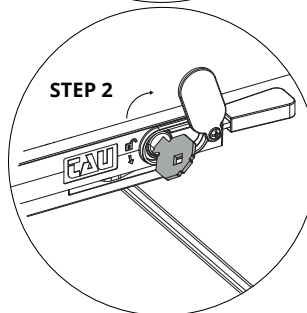
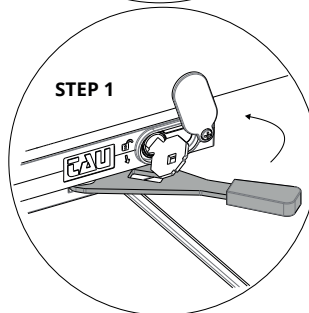


fig. 9

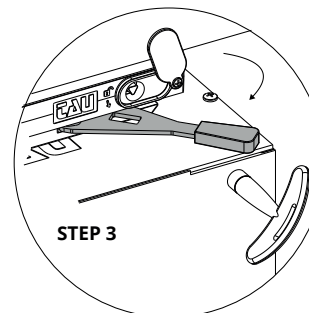
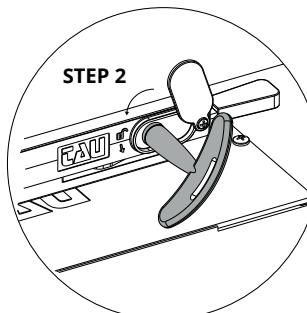
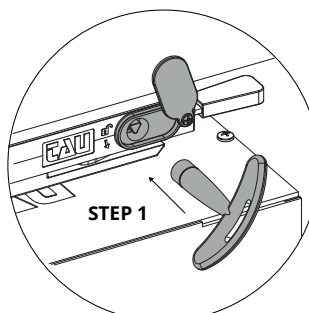
DIN:
Per sbloccare
To unlocking



DIN:
Per bloccare
To locking



**TRILOBATA /
TRI-LOBED
KEY:**
Per sbloccare
To unlocking



**TRILOBATA /
TRI-LOBED
KEY:**
Per bloccare
To locking

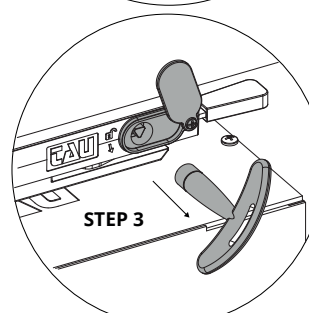
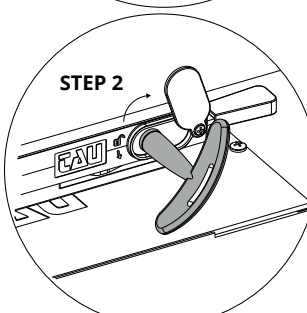
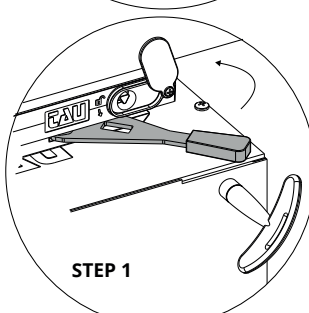


fig. 10

WARNING!

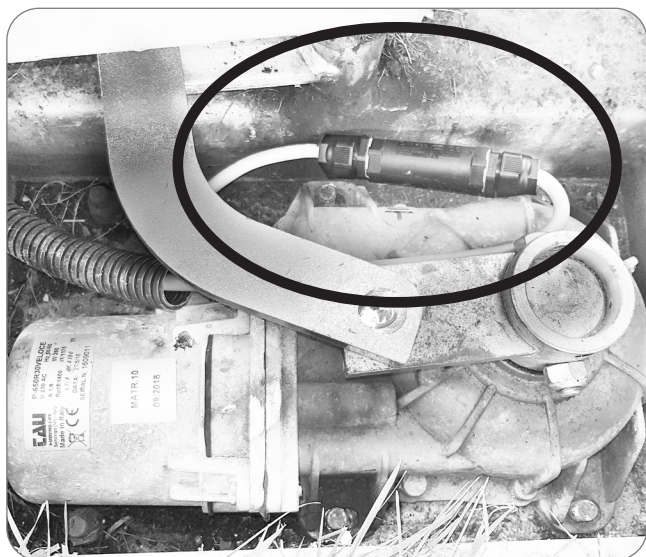
ATTENZIONE: I cavi elettrici non devono essere giuntati all'interno della cassa di fondazione, se necessario, usare l'apposito connettore stagno optional GS5 / GS3 a seconda del modello. TAU srl non si assume la responsabilità dei danni causati dalle infiltrazioni di acqua all'interno dei giunti errati. Il cavo in dotazione è di lunghezza adeguata per effettuare i collegamenti all'interno del quadro di comando.

WARNING: Electric cables must not be spliced inside the foundation box. If necessary, use the special optional waterproof connector GS5 / GS3 (depending upon the model). TAU srl does not take responsibility for damages caused by water seeping through wrong joints. The supplied cable is long enough to make connections inside control boards.

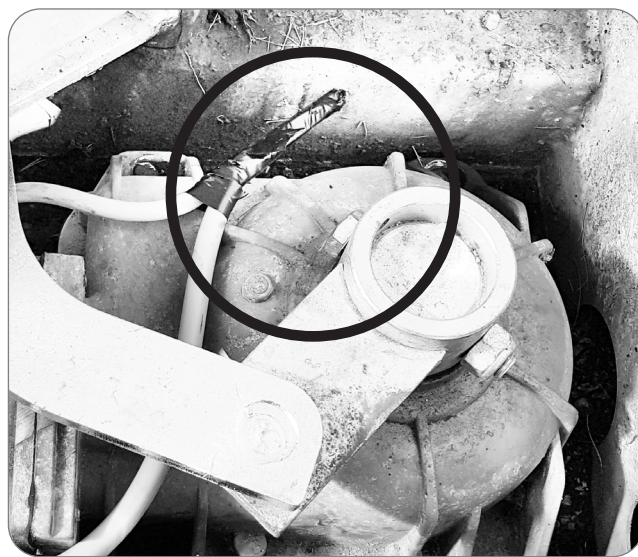
WARNUNG: Elektrischen Kabel dürfen nicht im Motor verbunden werden. Falls erforderlich, verwenden Sie je nach Modell die optionale wasserdichte Steckverbindung GS5 / GS3. TAU srl übernimmt keine Verantwortung für Schäden, die durch Wasserinfiltration in den falschen Verbindungen verursacht werden. Das mitgelieferte Kabel hat eine ausreichende Länge, um die Anschlüsse innerhalb der Steuerung auszuführen.

AVERTISSEMENT: Les câbles électriques ne doivent pas être épissés à l'intérieur du caisson de fondation. Si nécessaire, utilisez le connecteur étanche spécial en option GS5 / GS3 (selon le modèle). TAU srl n'assume aucune responsabilité pour les dommages causés par l'infiltration d'eau dans les mauvais joints. Le câble fourni est suffisamment long pour effectuer les connexions à l'intérieur de la centrale de commande.

ADVERTENCIA: Los cables eléctricos no deben ser empalmados adentro del caja de cimentación; si es necesario, utilice el conector especial a prueba de agua GS5 / GS3 según el modelo. TAU srl no se responsabiliza por los daños causados por la infiltración de agua dentro de las juntas equivocados. El cable suministrado es lo suficientemente largo para hacer las conexiones dentro del panel de control.



YES



NO

1. DIMENSIONS (fig. 1)

2. INSTALLATION MATERIAL (fig. 2)

- | | |
|--|---|
| 1) Art. S-700SR18100: Release unit with DIN key
Art. S-700SR18250: release unit with trilobular key | 5) Art. P-650R18/R18BENC/L: gear motor assembly R18/R18BENC/L |
| 2) Art. S-700SR18B50: leaf guide lever | 6) Art. M-V100008025: galvanised screw M8 x 35 |
| 3) Art. S-700CFR18B3: bushing | 7) Art. S-700CFR18B: foundation box |
| 4) Art. S-700CFR18B1: foundation box cover | |

The gear motor is not fitted with a mechanical clutch. Only use control units with electric clutches.

3. INSTALLING THE FOUNDATION BOX (fig. 3-4)

- Alignment with axis.
- Concrete casting.
- Water drain pipe and cable sheath protruding from casting.

IT IS COMPULSORY TO DRAIN WATER FROM THE FOUNDATION BOX AND PERIODICALLY CONTROL THE CORRECT FUNCTIONING, FAILING WHICH LAPSE OF THE GUARANTEE.

IT IS SEVERELY PROHIBITED TO CONNECT THE WATER DRAINAGE PIPE TO ANY KIND OF DRAINAGE SYSTEM, BE IT CIVIL OR AN INDUSTRIAL SEWAGE PLANT (BLACK WATER). IF NECESSARY, THE PIPE CAN BE CONNECTED TO A RAINWATER DRAINAGE SYSTEM (WHITE WATER).

4. INSTALLING THE GEAR MOTOR AND ATTACHING IT TO THE GATE

- put the operator inside the foundation box as shown in **pictures 5A and 5B**
- Lift the operator by screwing the four screws (picture) until its shaft is completely inserted in the leaf's control lever.

N.B. : To make this operation easier, slightly turn the gate's leaf up to the teeth's entrance (**picture 6**)

5. ELECTRICAL CONNECTIONS TO THE MOTOR

Use cables with a suitable cross-section for the power of the motor in compliance with current standards (for R18BENC/L use the cables recommended by the company - code M-030000CC50).

230V AC system (R18):

- for one/two motors, connect a D760M control unit more recent version (see the relative instructions manual for connections);
- motor phase conductors (sect. 1.5 mm²); yellow-green conductor=earth; blue or grey conductor=common; black conductor=phase; brown conductor=phase. Connect the supplied condenser near the board in parallel to the two motor phases.

12V DC system (R18BENC/L - R18BENCVEL):

- for one/two motors, connect an D749MA control unit more recent version (see the relative instructions manual for connections);
Encoder wires: white, brown, blue (sect. 0.5 mm²);
Motor wires: blue, red (sect. 2.5 mm²);
Check that the opening command actually opens the gate; if not, invert the position of the red and black wires.
To make connections to the control board, please consult the instructions manual.
Install the control unit in a sheltered position or use the optional protective lid (cod. 750CUP).

The distance between the control unit and the motor must not exceed 10 - 12 m.

Do not pass the power cables together with the motor cables. Always choose the shortest routes for the cable lines. A general switch should be fitted on the system, out of reach of unauthorised people, to allow power to be disconnected from the gearmotor for maintenance purposes or if it is not used for a long period.



- Place the control unit (external versions) in the immediate vicinity of the motors.
- Be careful not to run cables for auxiliary devices inside raceways housing other cables supplying power to large loads or lights with electronic starters.
- In the event control pushbuttons or indicator lights are installed inside homes or offices several metres from the actual control unit, it is advisable to decouple the signal by means of a relay in order to avoid induced interference.
- IT IS STRICTLY FORBIDDEN TO MAKE ANY UNDERGROUND CONNECTIONS (INSIDE THE FOUNDATION BOX OR AT TUBES LEVEL).

Warnings:

- The fitter is responsible for ensuring the system can be used correctly and functionally. He must also provide it with all the safety devices and/or signals required to ensure it complies with current law.
- The gearmotor is not designed for extended submersed use and, as indicated in the technical specifications, has an IP 67 protection level; the foundation box should therefore be correctly drained by inserting tubes in the relative holes.

6. MANUAL RELEASE

To unlock (operation to be carried out with the motor stopped):

- 1) Open the rubber cap from the release lever (2 fig.10);
- 2) insert the key (3 fig. 10);
- 3) rotate in the direction shown in figure 10 and pull or push the lever. Then open the gate leaf manually.

To block:

- 1) return the leaf to the coupling position with the gate lever;
- 2) return the lever in axis with the gate and turn the key clockwise

7. GENERAL ADVICE

- Integrate door safety to achieve compliance with current laws (prEN 13241).
Note: for complete safety, the mechanical stops with rubber cap (floor stops) must be fitted in opening and closing of the gate, as shown in figg 8-9.
- Make sure that each installed device is in perfect working order.

8. USE

The R18-R18BENC/L buried gear motor has been designed to move swing gates with a maximum wing length of 1,80 m. The R18BENCVEL buried gear motor has been designed to move swing gates with a maximum wing length of 1,20 m. It is **orbidden to use the equipment for other purposes or in other circumstances than those mentioned herein.**

The electronic control unit (**which must feature a built-in electronic clutch**) normally allows the following operating modes to be selected:

- automatic:** a control impulse opens and closes the gate;
semiautomatic: a control impulse opens or closes the gate.

In the event of a power blackout, the gate will continue to work if it is fitted with a buffer battery; use the release device to operate the gate manually.

Please bear in mind that this is an electrically powered automatic device which should therefore be used with care.

9. MAINTENANCE

To work properly, the gate must be in good working order; the operations required to keep it in perfect condition are described below.

ATTENTION: no-one, except for the maintenance man, who must be a specialised technician, must be able to use the automatic system during maintenance.

Switch off the mains power supply to eliminate the risk of electrocution. If the power supply must be left on for certain operations, each control device should be checked or disabled (remote controls, push button strips, etc.) except for the one used by the maintenance man.

Routine maintenance

Each of the following operations must be carried out when necessary and always every 6 months for domestic use (approx. 3000 work cycles) and every 2 months for intensive use such as blocks of flats (always 3000 work cycles).

Gate:

- lubricate and grease the hinges of the gate.

Automation system:

- make sure the safety devices work properly (they must be efficient and trigger as set during installation);
- grease the unlock unit periodically with the grease nipple.
- inspect the inside of the foundation box periodically to check rain water drains correctly and to avoid the stagnation of water or other deposits (leaves, paper, etc.).

Extraordinary maintenance or breakage

If major work on electromechanical parts must be carried out, the faulty component should be removed and repaired in the workshop by the maker's or other authorised technicians.

CAUTION: If the weight of the gate is placed directly on the foundation box, the bush needs to be replaced every 200,000 cycles (image 2 - no. 4).

N.B.: Keep all the documents concerning the system inside or near the control unit.

10. GUARANTEE: GENERAL CONDITIONS

TAU guarantees this product for a period of 24 months from the date of purchase (as proved by the sales document, receipt or invoice). This guarantee covers the repair or replacement at TAU's expense (ex-works TAU: packing and transport at the customer's expense) of parts that TAU recognises as being faulty as regards workmanship or materials.

For visits to the customer's facilities, also during the guarantee period, a "Call-out fee" will be charged for travelling expenses and labour costs.

The guarantee does not cover the following cases:

- If the fault was caused by an installation that was not performed according to the instructions provided by the company inside the product pack.
- If original TAU spare parts were not used to install the product.
- If the damage was caused by an Act of God, tampering, overvoltage, incorrect power supply, improper repairs, incorrect installation, or other reasons that do not depend on TAU.
- If a specialised maintenance man does not carry out routine maintenance operations according to the instructions provided by the company inside the product pack.
- Wear of components.

The repair or replacement of pieces under guarantee does not extend the guarantee period.

In case of industrial, professional or similar use, this warranty is valid for 12 months.