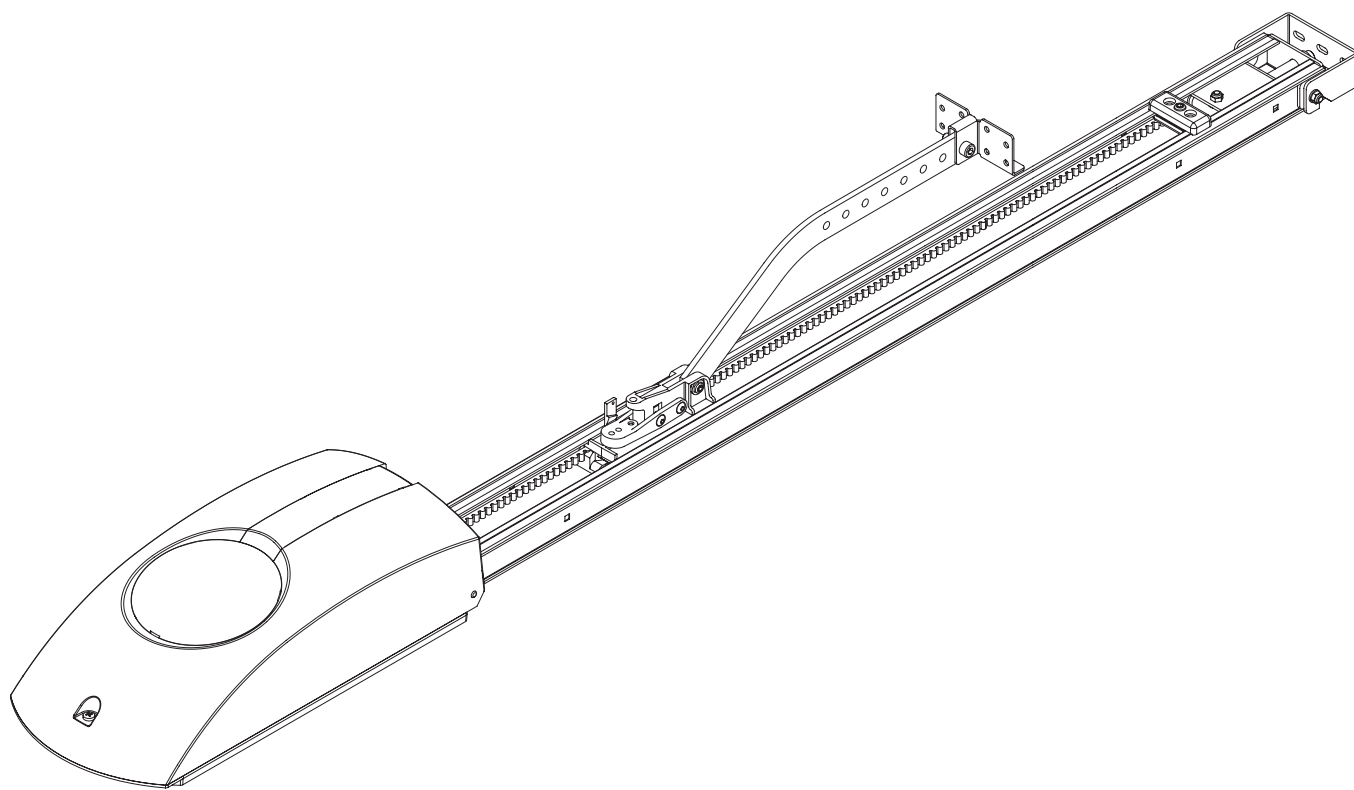


L8542369  
Rev. 10/07/02

# BENINCA®

AUTOMAZIONE A TRAINO PER PORTE SEZIONALI RESIDENZIALI  
**PULLING AUTOMATIC SYSTEM FOR RESIDENTIAL SECTIONAL DOORS**  
*AUTOMATISCHE SCHLEPPVORRICHTUNG FÜR SEKTIONALE TÜREN*  
**AUTOMATISME À ENTRAÎNEMENT POUR PORTES SECTIONNELLES RESIDENTIALES**  
AUTOMATIZACIÓN DE ARRASTRE PARA PUERTAS SECCIONALES RESIDENTIALES  
**POCIĄGNIK AUTOMATYCZNY DO BRAM SEKCYJNYCH**

## JM.3/JM.4



Libro istruzioni e catalogo ricambi

**Operating instructions and spare parts catalogue**

*Betriebsanleitung und Ersatzteilliste*

**Livret d'instructions et catalogue des pieces de rechange**

Maual de instrucciones y catálogo de recambios

**Książeczka z instrukcjami i katalog części wymiennych**



UNIONE NAZIONALE COSTRUTTORI  
AUTOMATISMI PER CANCELLI, PORTE,  
SERRANDE ED AFFINI

**Dichiarazione CE di conformità per macchine**  
**(Direttiva 89/392 CE, Allegato II, parte B)**  
**Divieto di messa in servizio**

Fabbricante: **Automatismi Benincà SpA.**  
Indirizzo: Via Capitello, 45 - 36066 Sandrigo (VI) - Italia

Dichiara che: l'automazione a traino per porte sezionali modello **JM.3/JM.4.**

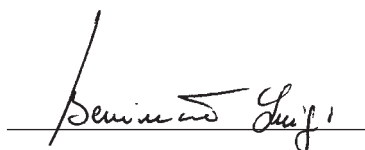
- è costruito per essere incorporato in una macchina o per essere assemblato con altri macchinari per costituire una macchina considerata dalla Direttiva 89/392 CE, come modificata;
- non è dunque conforme in tutti i punti alle disposizioni di questa Direttiva;
- è conforme alle condizioni delle seguenti altre Direttive CE:  
Direttiva bassa tensione 73/23/CEE, 93/68/CEE.  
Direttiva compatibilità elettromagnetica 89/336/CEE, 93/68/CEE.

e che:

- sono state applicate le seguenti (parti/clausole di) norme armonizzate:  
EN 55022, EN 61000-3-2, EN 61000-3-3, EN 50082-1, EN 60335-1.

e inoltre dichiara che non è consentito mettere in servizio il macchinario fino a che la macchina in cui sarà incorporato o di cui diverrà componente sia stata identificata e ne sia stata dichiarata la conformità alle condizioni della Direttiva 89/392 CE e alla legislazione nazionale che la traspone, vale a dire fino a che il macchinario di cui alla presente dichiarazione non formi un complesso unico con la macchina finale.

Benincà Luigi, Responsabile legale.  
Sandrigo, 10/02/2007.



**Declaration by the manufacturer**  
**(Directive 89/392/EEC, Art. 4.2 and Annex II, sub B)**  
**Divieto di messa in servizio**

Manufacturer: **Automatismi Benincà SpA.**  
Address: Via Capitello, 45 - 36066 Sandrigo (VI) - Italia

Herewith declares that: the pulling automatic system for sectional doors model **JM.3/JM.4.**

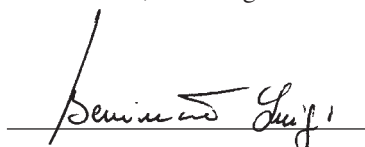
- is intended to be incorporated into machinery or to be assembled with other machinery to constitute machinery covered by Directive 89/392 EEC, as amended;
- does therefore not in every respect comply with the provisions of this Directive;
- does comply with the provisions of the following other EEC Directives:  
Direttiva bassa tensione 73/23/CEE, 93/68/CEE.  
Direttiva compatibilità elettromagnetica 89/336/CEE, 93/68/CEE.

and that:

- the following (parts/clauses of) harmonized standards have been applied:  
EN 55022, EN 61000-3-2, EN 61000-3-3, EN 50082-1, EN 60335-1.

and furthermore declares that it is not allowed to put the machinery into service until the machinery into which it is to be incorporated or of which it is to be a component has been found and declared to be in conformity with the provisions of Directive 89/392/EEC and with national implementing legislation, i.e. as a whole, including the machinery referred to in this declaration.

Benincà Luigi, Responsabile legale.  
Sandrigo, 10/02/2007.



La porta deve aprirsi e chiudersi tirando e spingendo orizzontalmente sul bordo superiore.

**It has to be possible to open and close the door by pulling and pushing horizontally its top edge.**

*Das Tor muß zu öffnen und zu schließen sein, indem man es an seinem Oberrand zieht und schiebt.*

**La porte devra pouvoir être ouverte et fermée en tirant et en poussant horizontalement sur son bord supérieur.**

La puerta debe abrirse y cerrarse tirando y empujando horizontalmente sobre el borde superior.

**Brama musi się otwierać i zamykać poprzez poziome pociąganie i popychanie górnej krawędzi.**

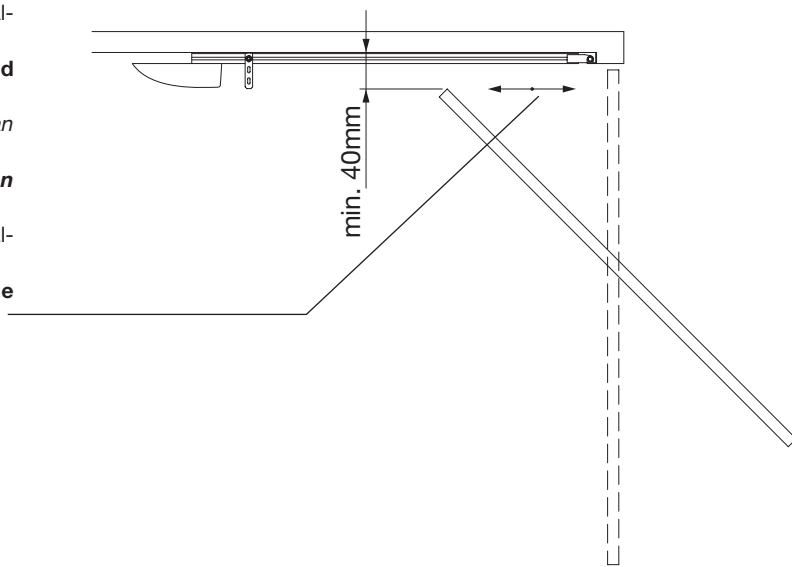


Fig.1

Dati tecnici	Technical data	Technische Daten	JM.3	JM.4
Alimentazione	<b>Feed</b>	<i>Speisung</i>	<b>230Vac</b>	<b>230Vac</b>
Alimentazione motore	<b>Motor feed</b>	<i>Motorspeisung</i>	<b>24Vdc</b>	<b>24Vdc</b>
Potenza assorbita	<b>Absorbed rating</b>	<i>Leistung</i>	<b>140W</b>	<b>220W</b>
Velocità di trazione	<b>Drive speed</b>	<i>Zuggeschwindigkeit</i>	<b>5,4/8/10 m/1'</b>	<b>3,5/6/8 m/1'</b>
Forza trazione/spinta	<b>Drive/thrust force</b>	<i>Zugkraft/Schubkraft</i>	<b>600N</b>	<b>1200N</b>
Grado di protezione	<b>Degree of protection</b>	<i>Schutzart</i>	<b>IP40</b>	<b>IP40</b>
Intermittenza lavoro	<b>Jogging</b>	<i>Betriebsintervall</i>	<b>*</b>	<b>*</b>
Temp. funzionamento	<b>Operating temp.</b>	<i>Betriebstemperatur</i>	<b>-20°C/+70°C</b>	<b>-20°C/+70°C</b>
Rumorosità	<b>Noise level</b>	<i>Geräusentwicklung</i>	<b>&lt;70dB (A)</b>	<b>&lt;70dB (A)</b>
Altezza max. porta: con PTC3/PTC4	<b>Max. door height: with PTC3/PTC4</b>	<i>Max. Torhöhe: mit PTC3/PTC4</i>	<b>2,5m</b>	<b>2,5m</b>
con PTCL4	<b>with PTCL4</b>	<i>mit PTCL4</i>	<b>3,5m</b>	<b>3,5m</b>
Peso gruppo motore	<b>Power unit weight</b>	<i>Gewicht der Motoreinheit</i>	<b>5,9 kg</b>	<b>7,6 kg</b>
Peso totale: con PTC3/PTC4	<b>Total weight: with PTC3/PTC4</b>	<i>Gesamtgewicht: mit PTC3/PTC4</i>	<b>11,5kg</b>	<b>13kg</b>
con PTCL4	<b>with PTCL4</b>	<i>mit PTCL4</i>	<b>13,3kg</b>	<b>15kg</b>

Donnees technique	Datos técnicos	Dane techniczne	JM.3	JM.4
<b>Alimentation</b>	Alimentación	Zasilanie	<b>230Vac</b>	<b>230Vac</b>
<b>Alimentation moteur</b>	Alimentación del motor	Zasilanie silnika	<b>24Vdc</b>	<b>24Vdc</b>
<b>Puissance absorbée</b>	Potencia absorbida	Natężenie	<b>140W</b>	<b>220W</b>
<b>Vitesse de traction</b>	Velocidad de tracción	Prędkość ciągnięcia	<b>3,5/6/8 m/1'</b>	<b>3,5/6/8 m/1'</b>
<b>Force traction/poussée</b>	Fuerza tracción/empuje	Siła ciągnięcia/pchania	<b>600N</b>	<b>1200N</b>
<b>Indice de protection</b>	Grado de protección	Stopień ochrony	<b>IP40</b>	<b>IP40</b>
<b>Intermittence travail</b>	Intermitencia de trabajo	Cykliczność pracy	<b>*</b>	<b>*</b>
<b>Temp. fonctionnement</b>	Temp. de funcionamiento	Temp. podczas pracy	<b>-20°C/+70°C</b>	<b>-20°C/+70°C</b>
<b>Bruit</b>	Ruido	Max. hałas	<b>&lt;70dB (A)</b>	<b>&lt;70dB (A)</b>
<b>Hauteur max. porte: avec PTC3/PTC4</b>	Altura máx. de puerta: con PTC3/PTC4	Wysokość max bramy: z PTC3/PTC4	<b>2,5m</b>	<b>2,5m</b>
<b>avec PTCL4</b>	con PTCL4	z PTCL4	<b>3,5m</b>	<b>3,5m</b>
<b>Poids groupe moteur</b>	Peso grupo motor	Ciężar zespołu silnikowo-węgo	<b>5,9 kg</b>	<b>7,6 kg</b>
<b>Poids totale: avec PTC3/PTC4</b>	Peso total: con PTC3/PTC4	Ciężar całkowity: z PTC3/PTC4	<b>11,5kg</b>	<b>13kg</b>
<b>avec PTCL4</b>	con PTCL4	z PTCL4	<b>13,3kg</b>	<b>15kg</b>

\* Uso intensivo - **Intensive use** - *Intensive Nutzung* - **Usage intensif** - Uso intensivo - **Użytkowanie intensywne**

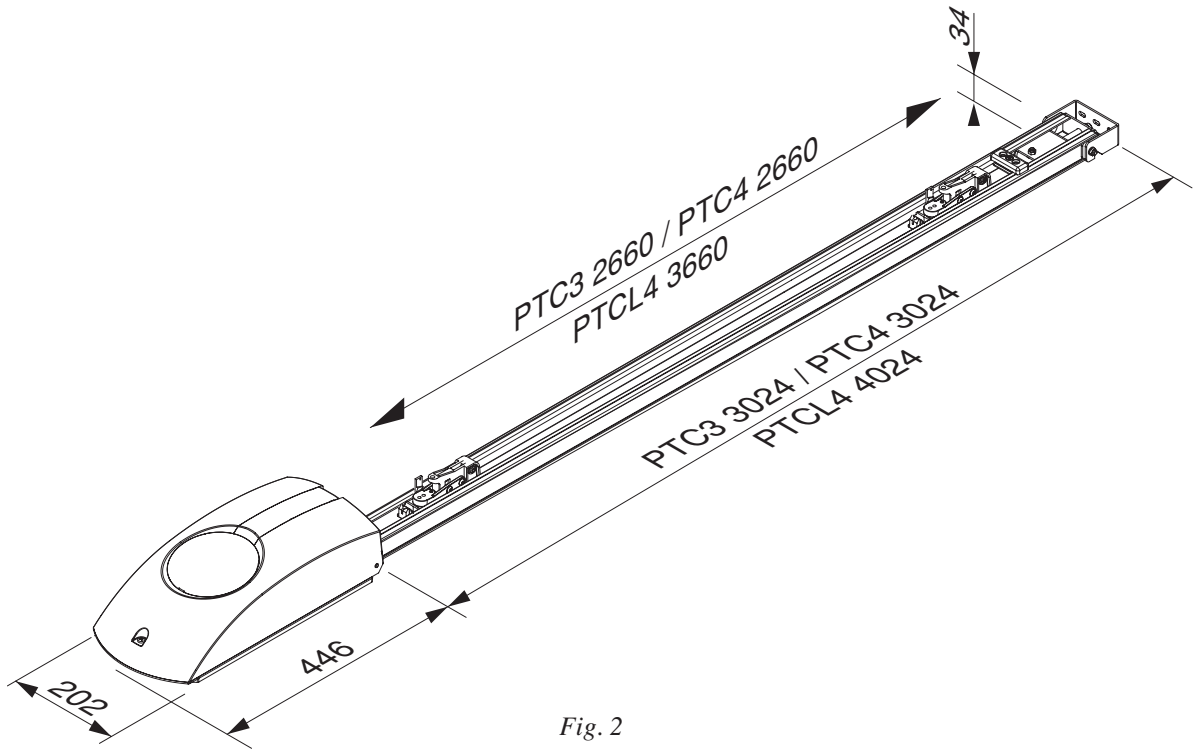


Fig. 2

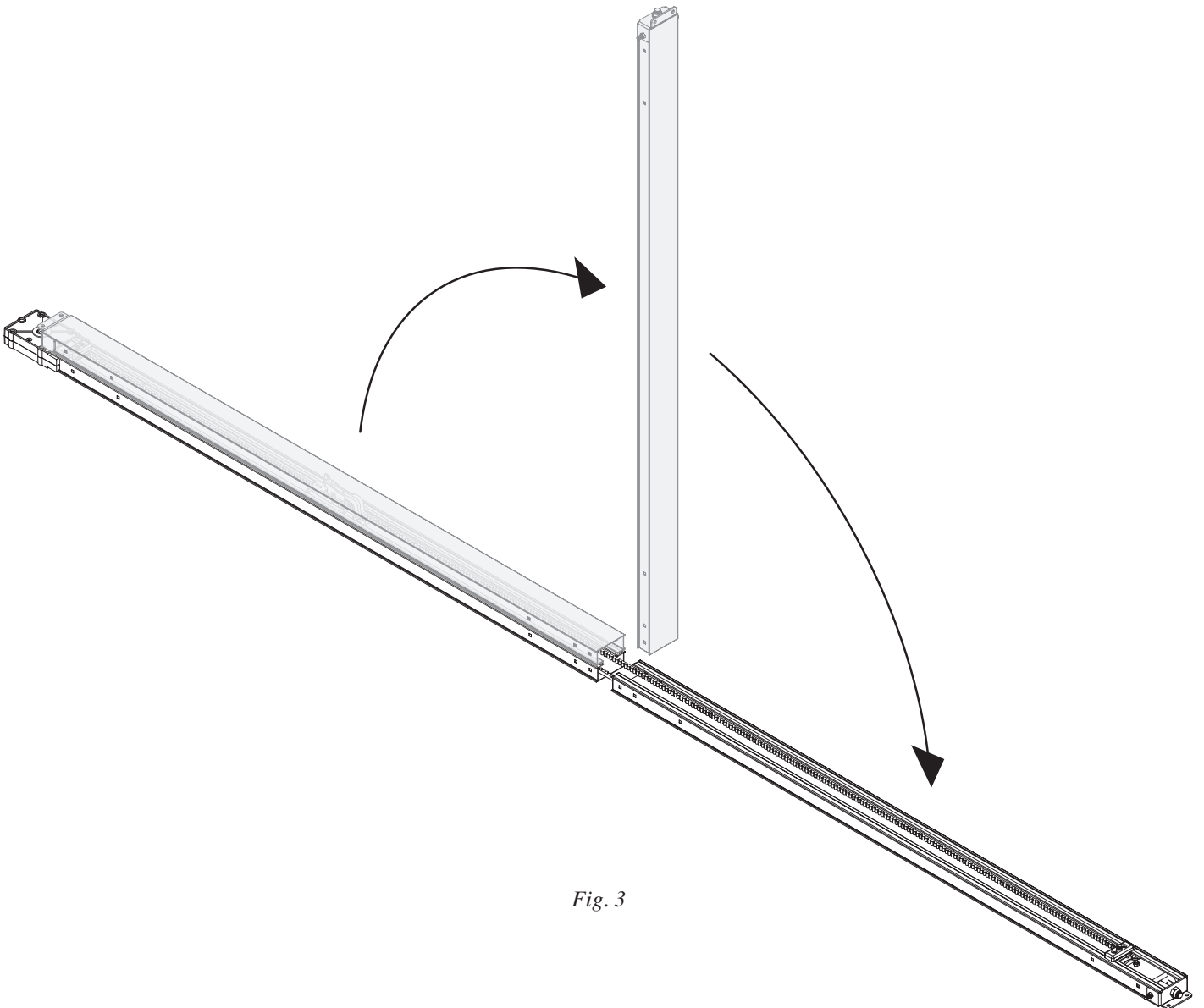
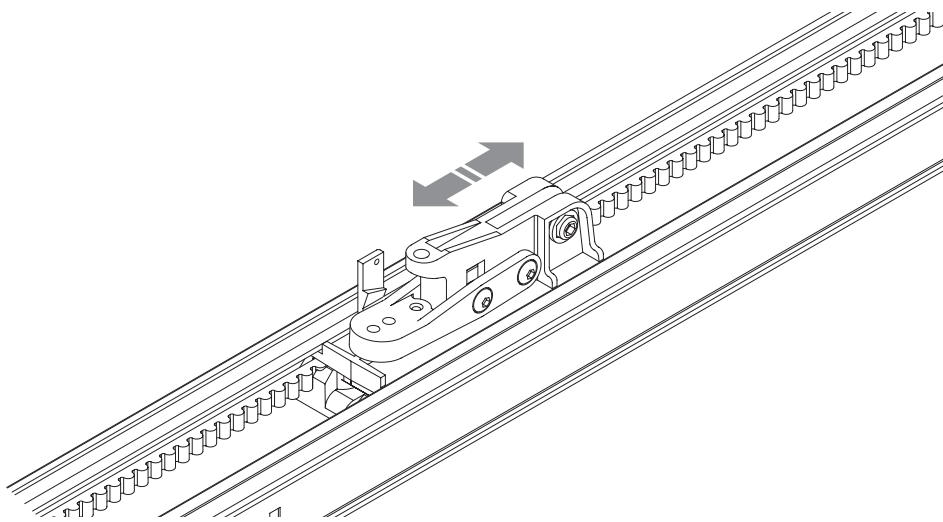
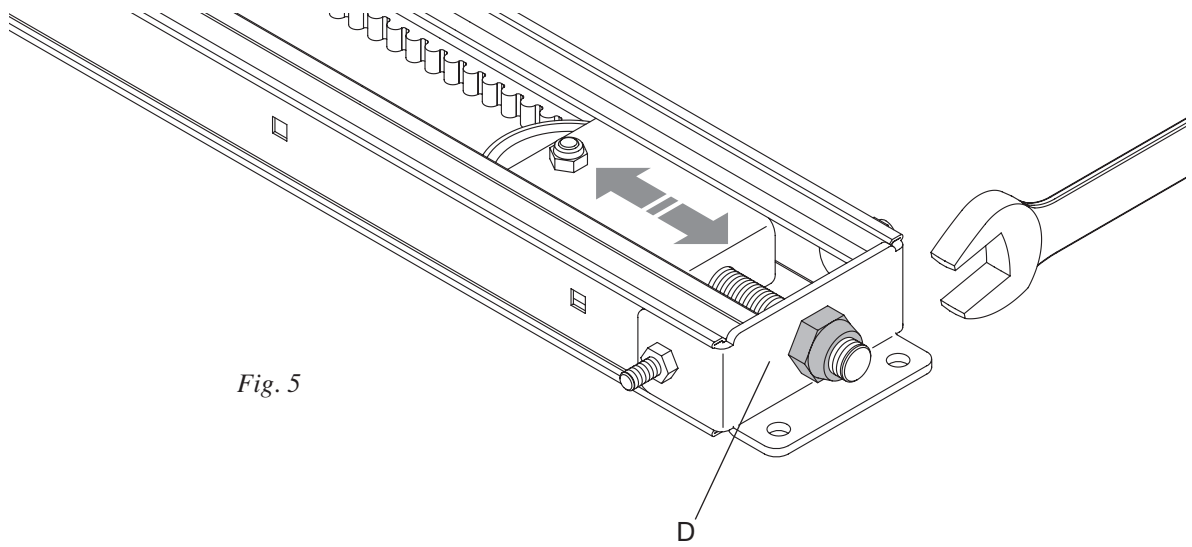
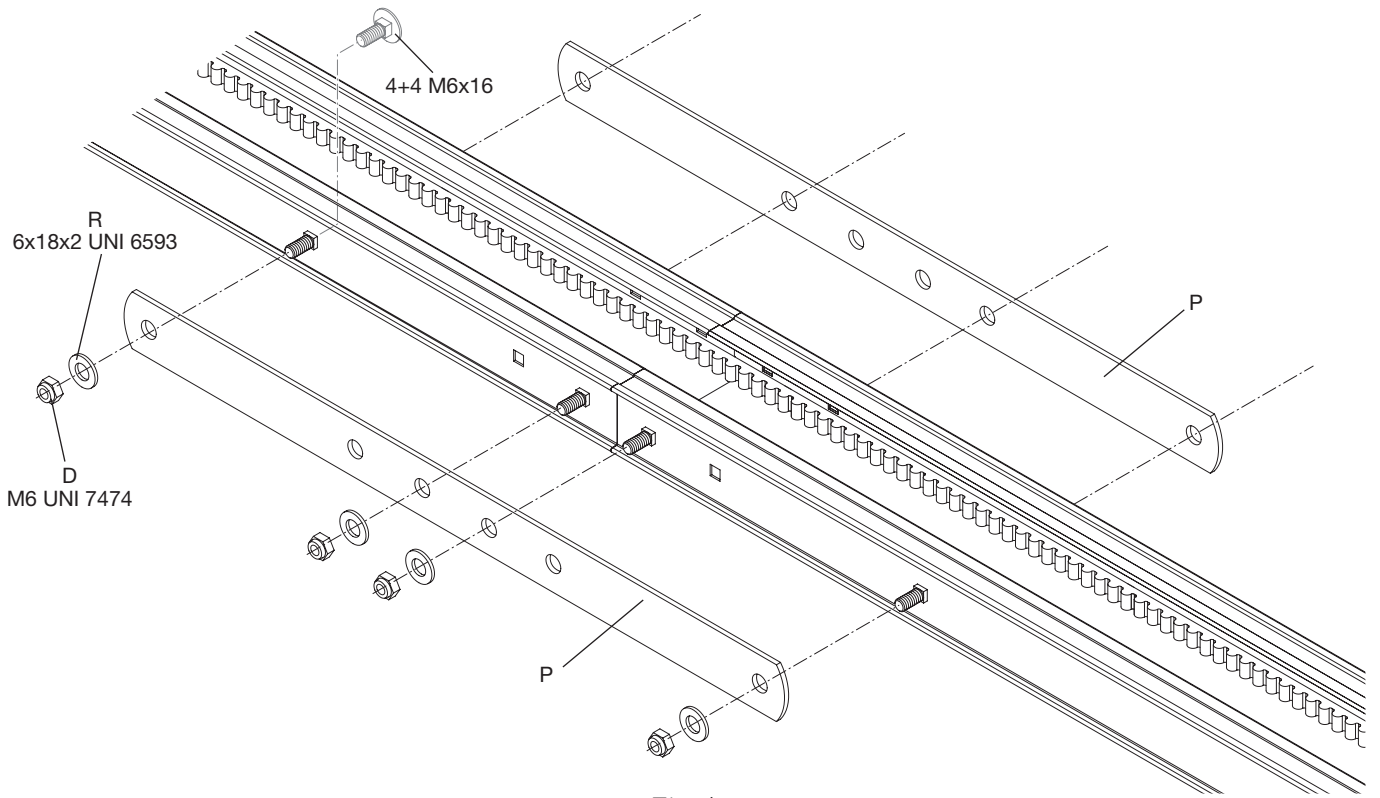


Fig. 3



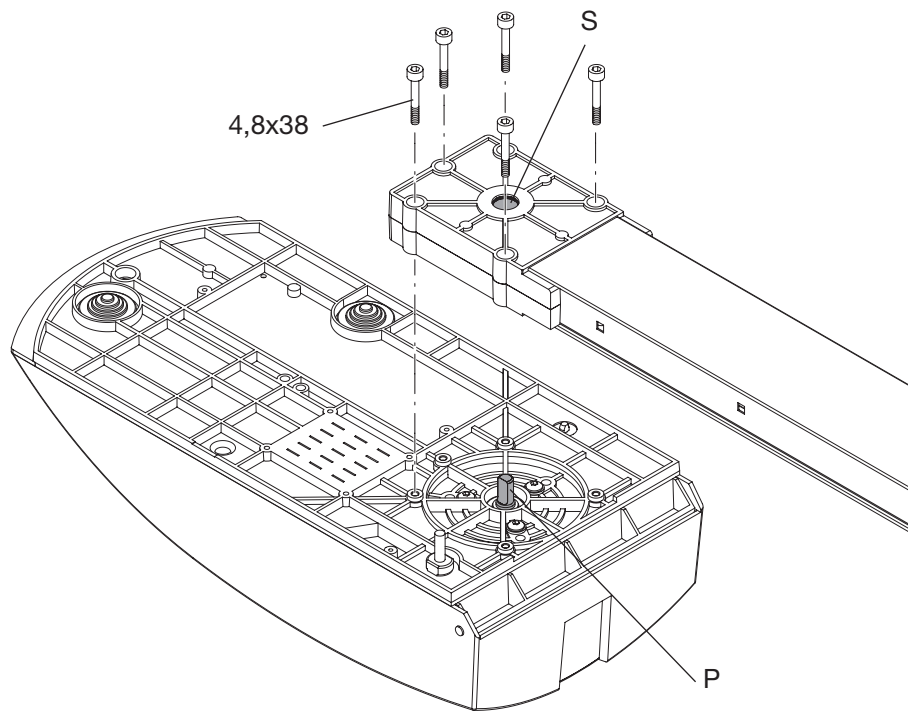


Fig.7

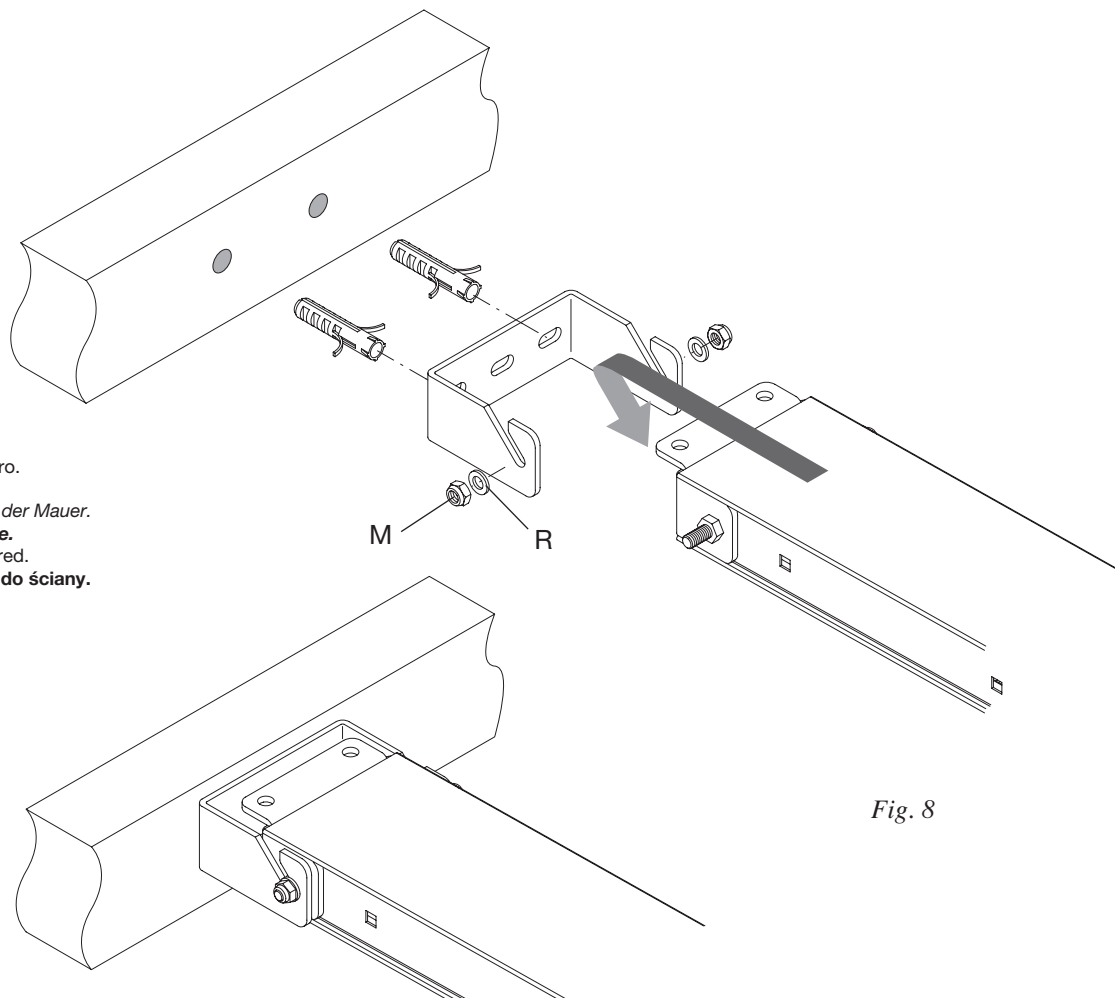


Fig. 8

Fissaggio a muro.  
**Wall fixing.**  
 Befestigung an der Mauer.  
**Fixation murale.**  
 Fijación a la pared.  
 Przyczepianie do ściany.

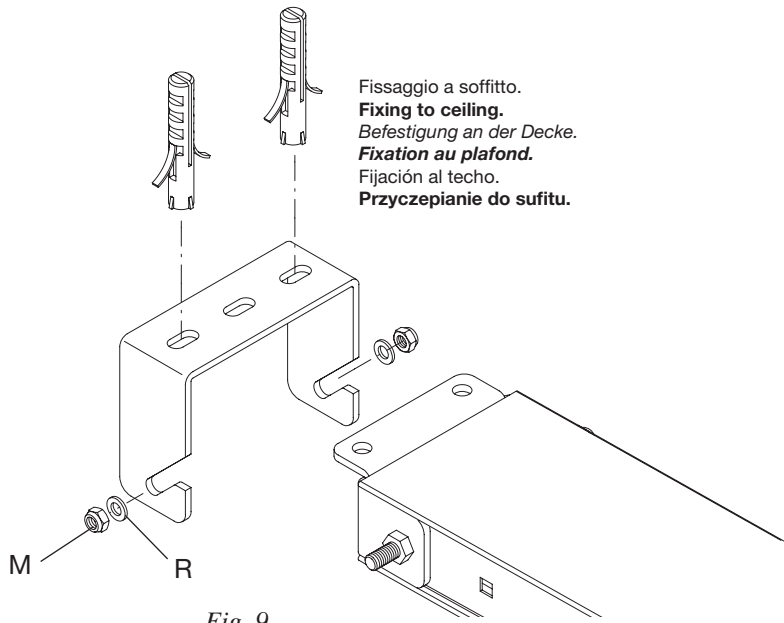


Fig. 9

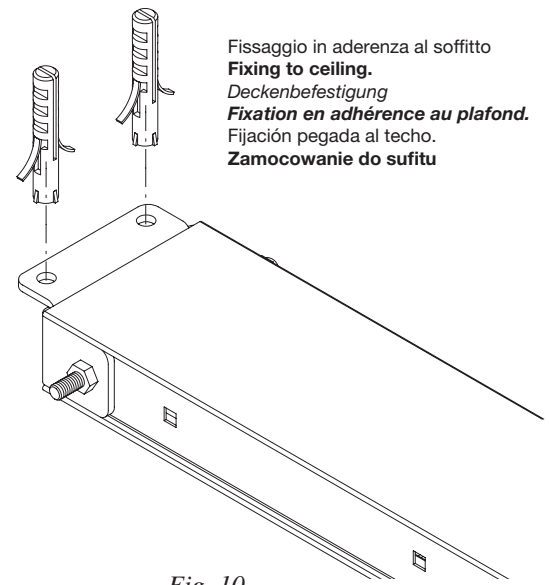


Fig. 10

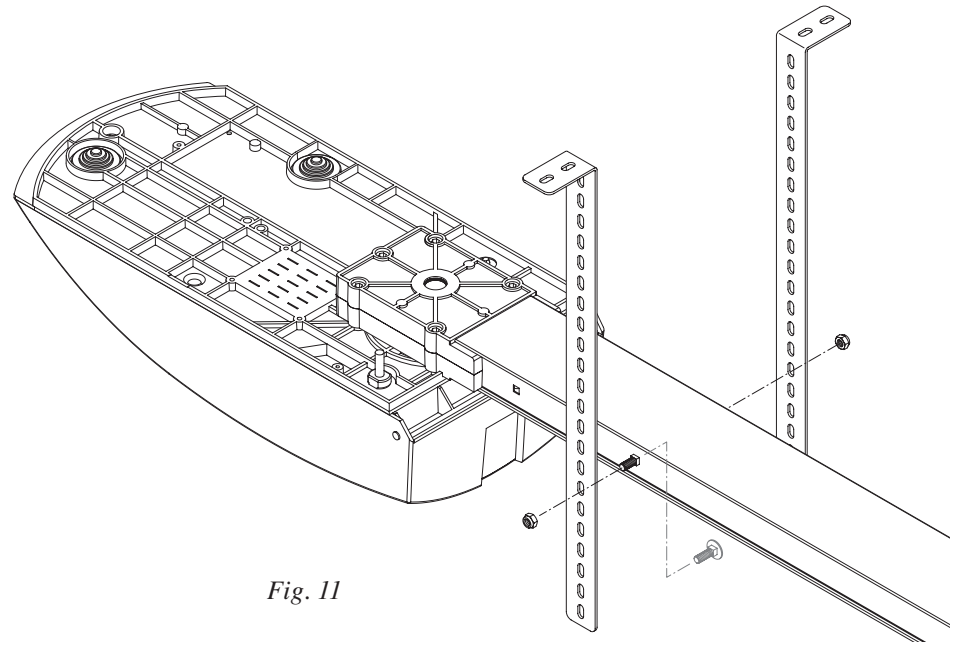


Fig. 11

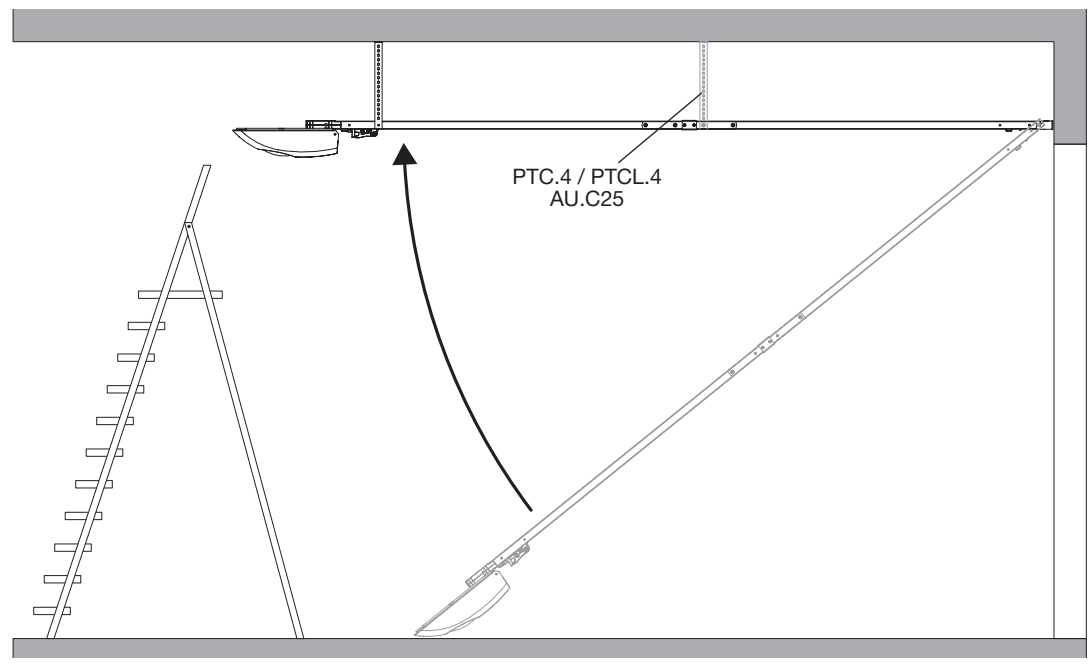


Fig. 12

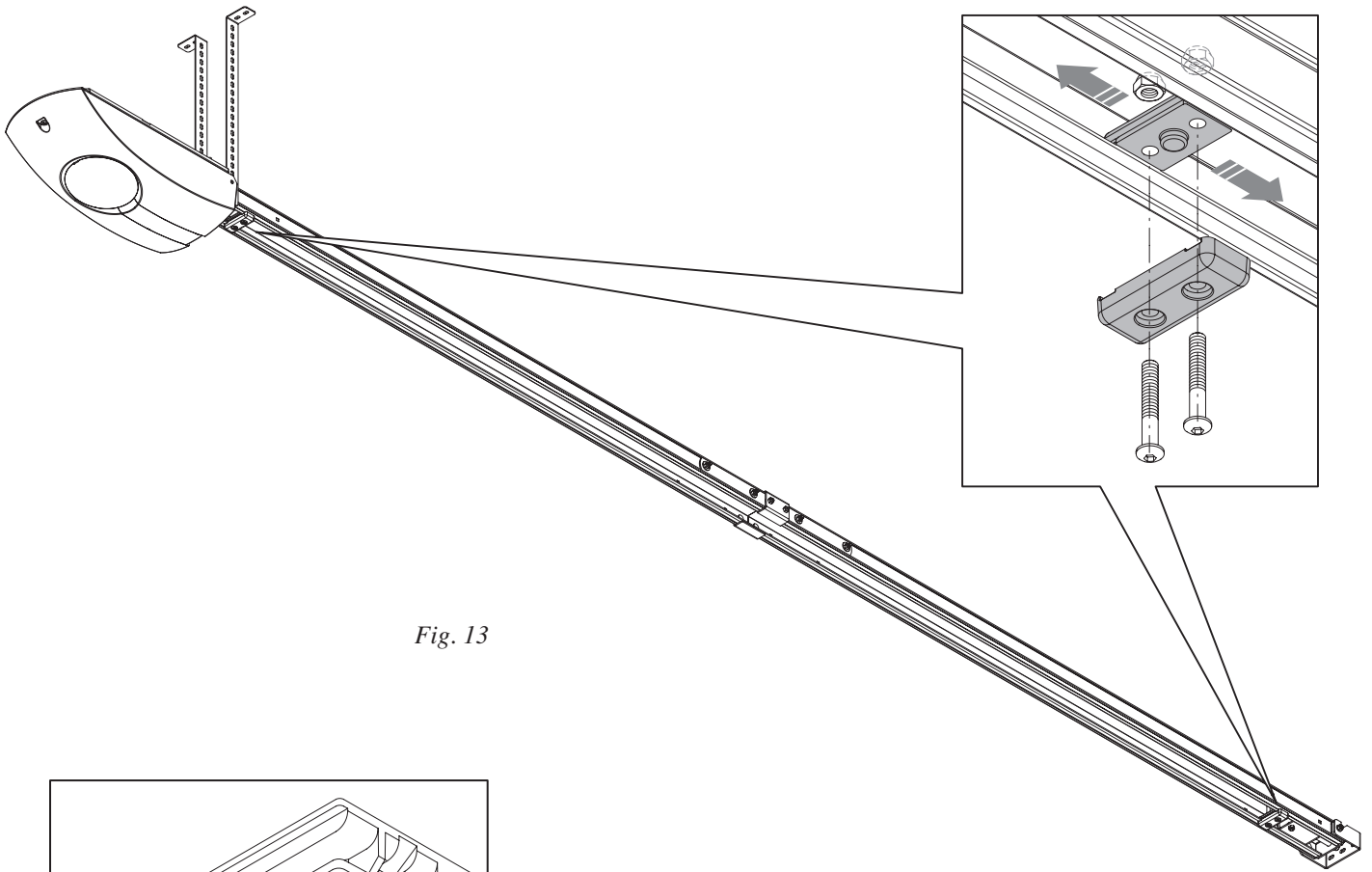
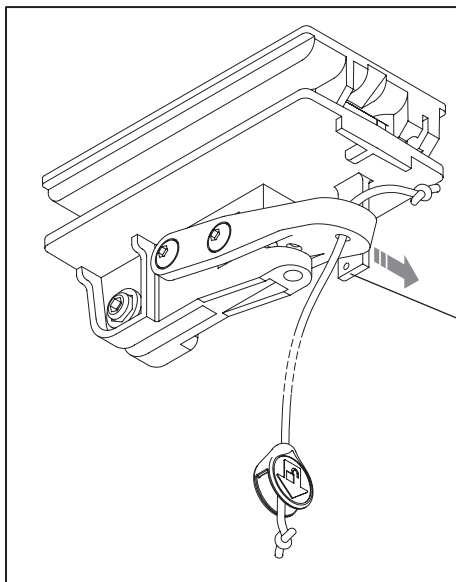


Fig. 13



Per ripristinare il funzionamento automatico tirare la leva  
**To reset the automatic operation of the system pull the lever.**  
 Um die automatische Funktion wieder herzustellen, den Hebel ziehen.  
**Pour remettre en état le fonctionnement automatique tirer le levier.**  
 Para restablecer el funcionamiento automático tirar de la palanca.  
**W celu przywrócenia działania automatycznego należy pociągnąć za dźwignię.**

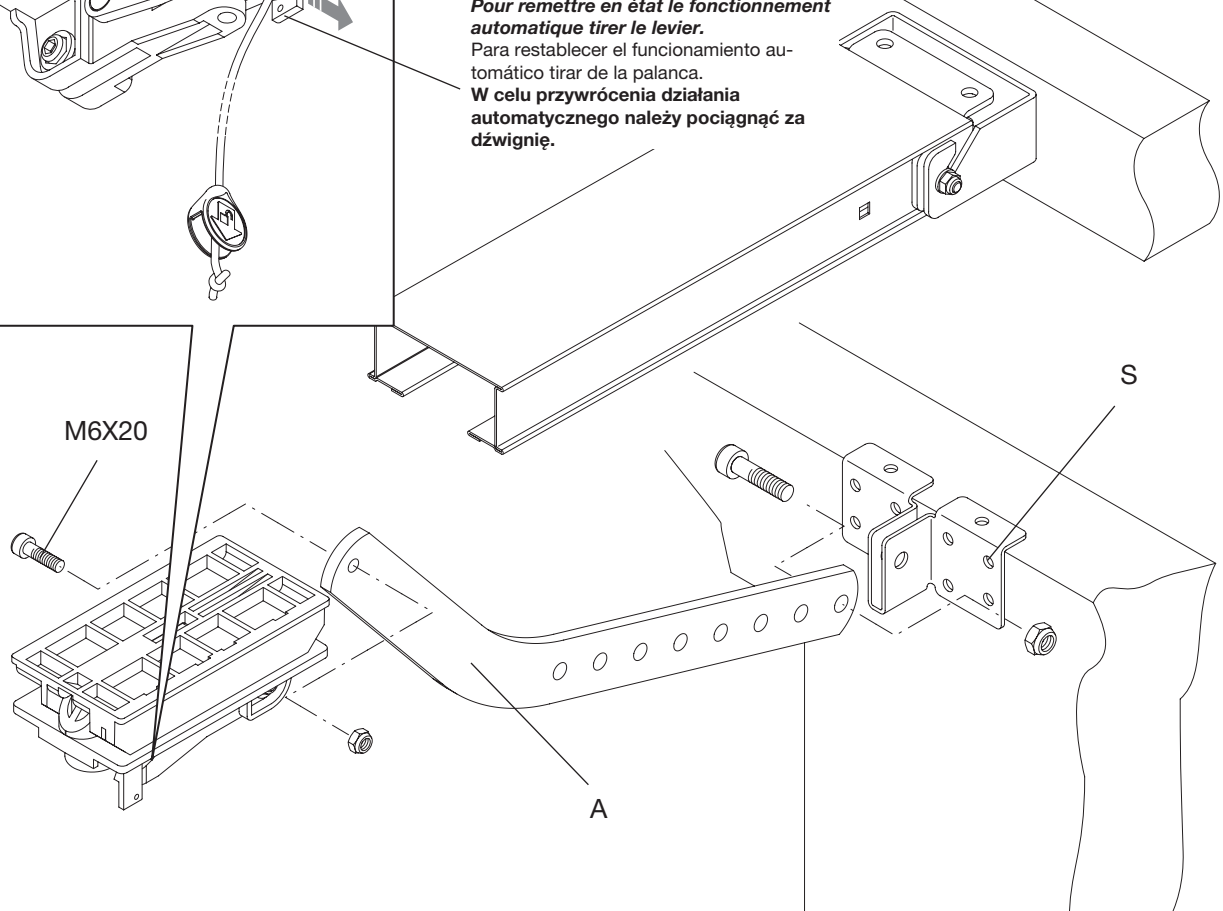


Fig. 14



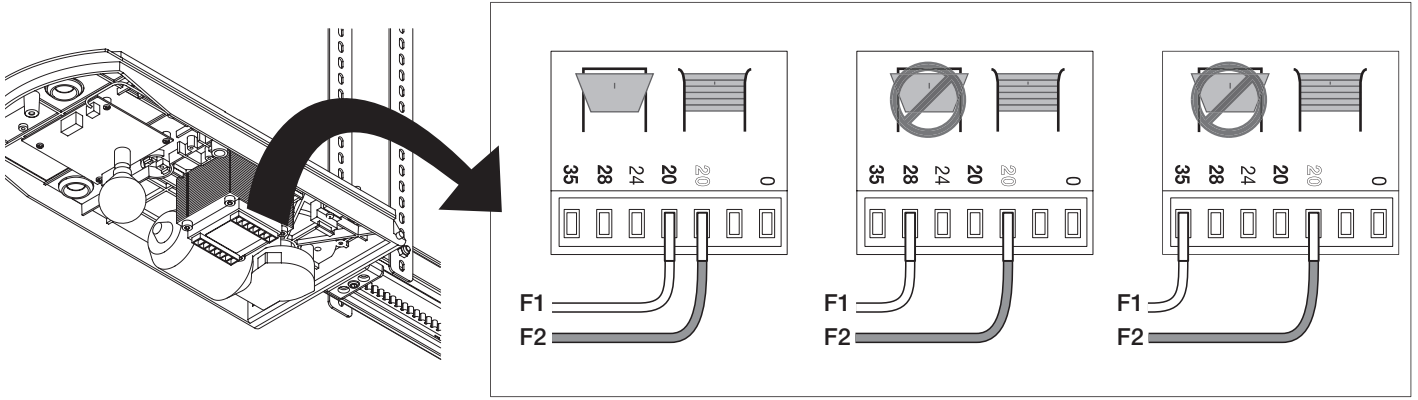


Fig. 15

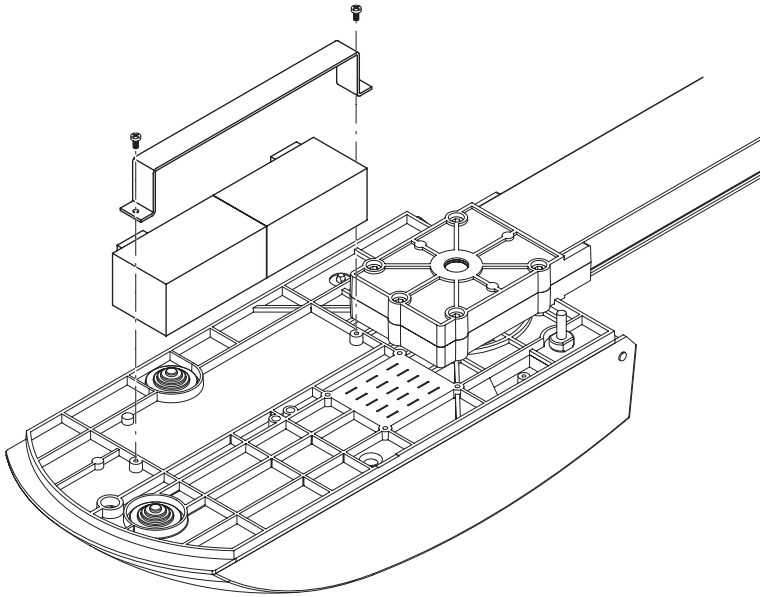


Fig. 16

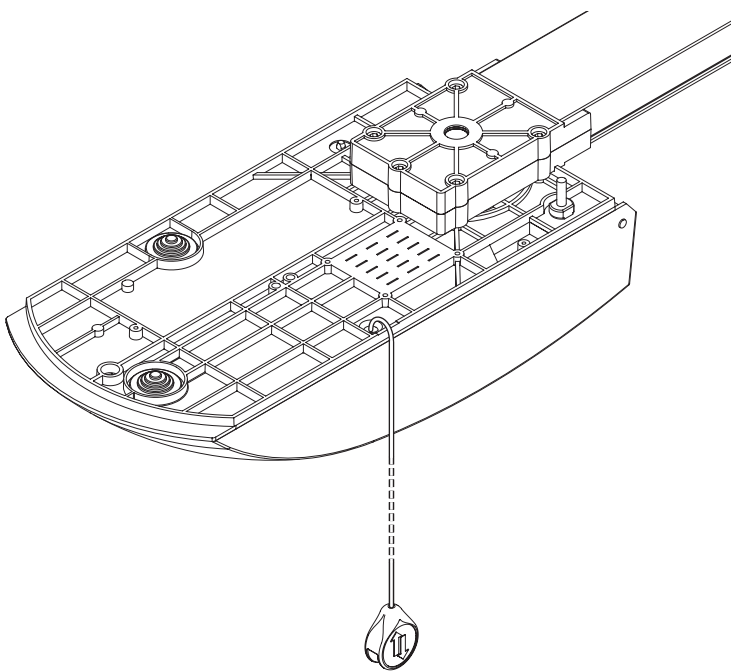


Fig. 18

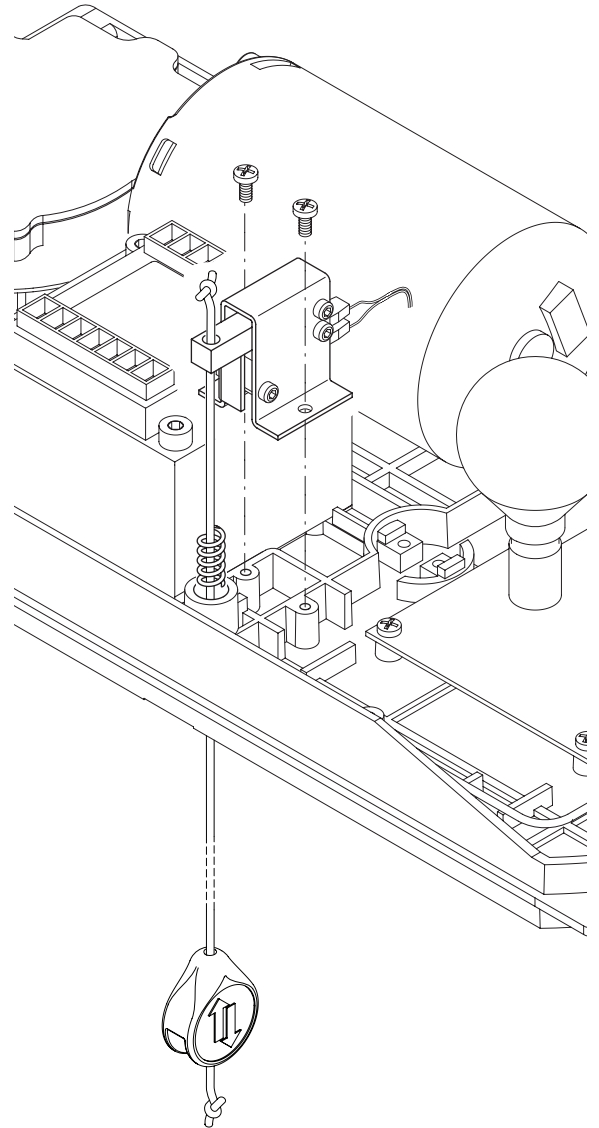


Fig. 17

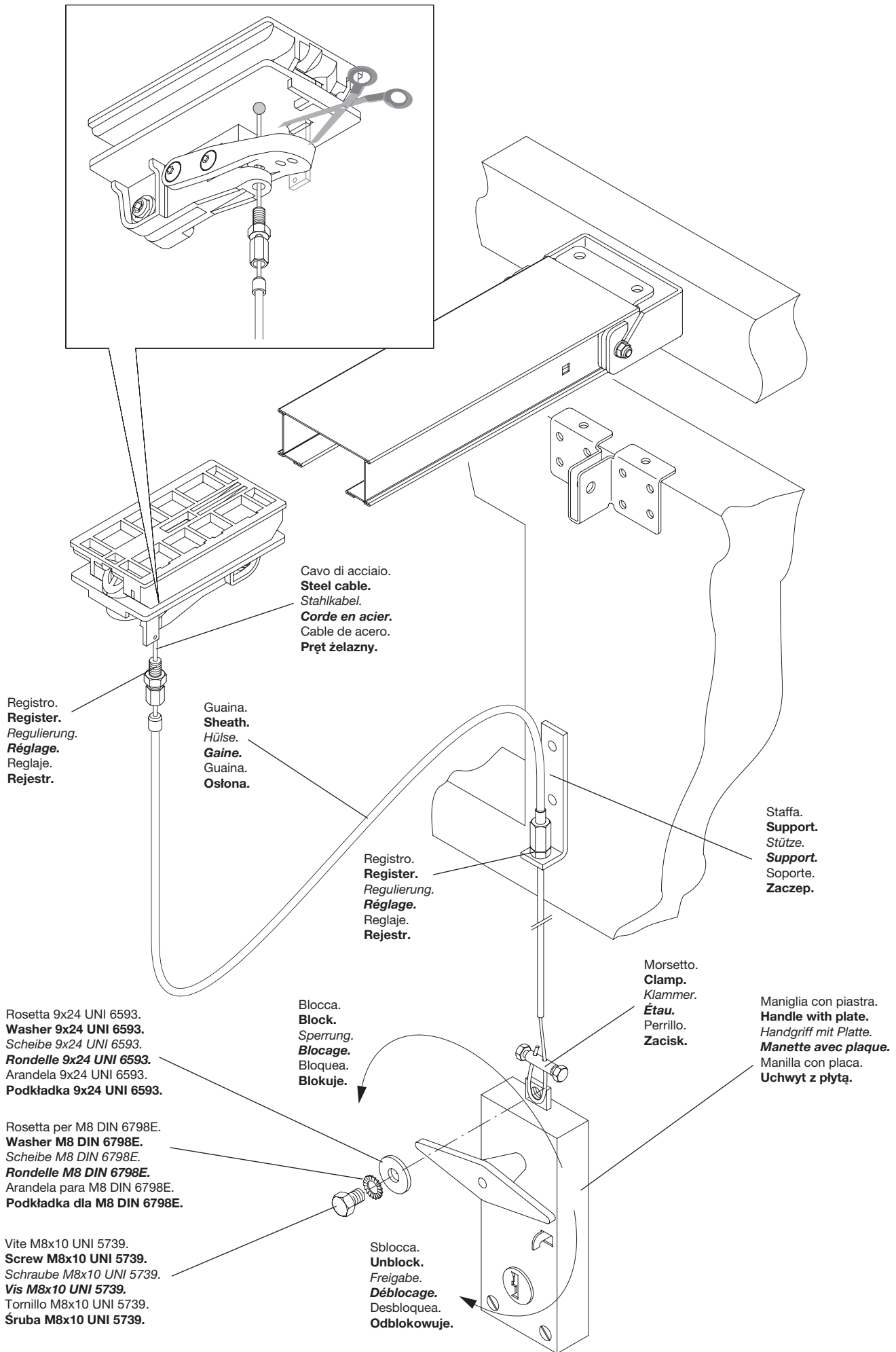
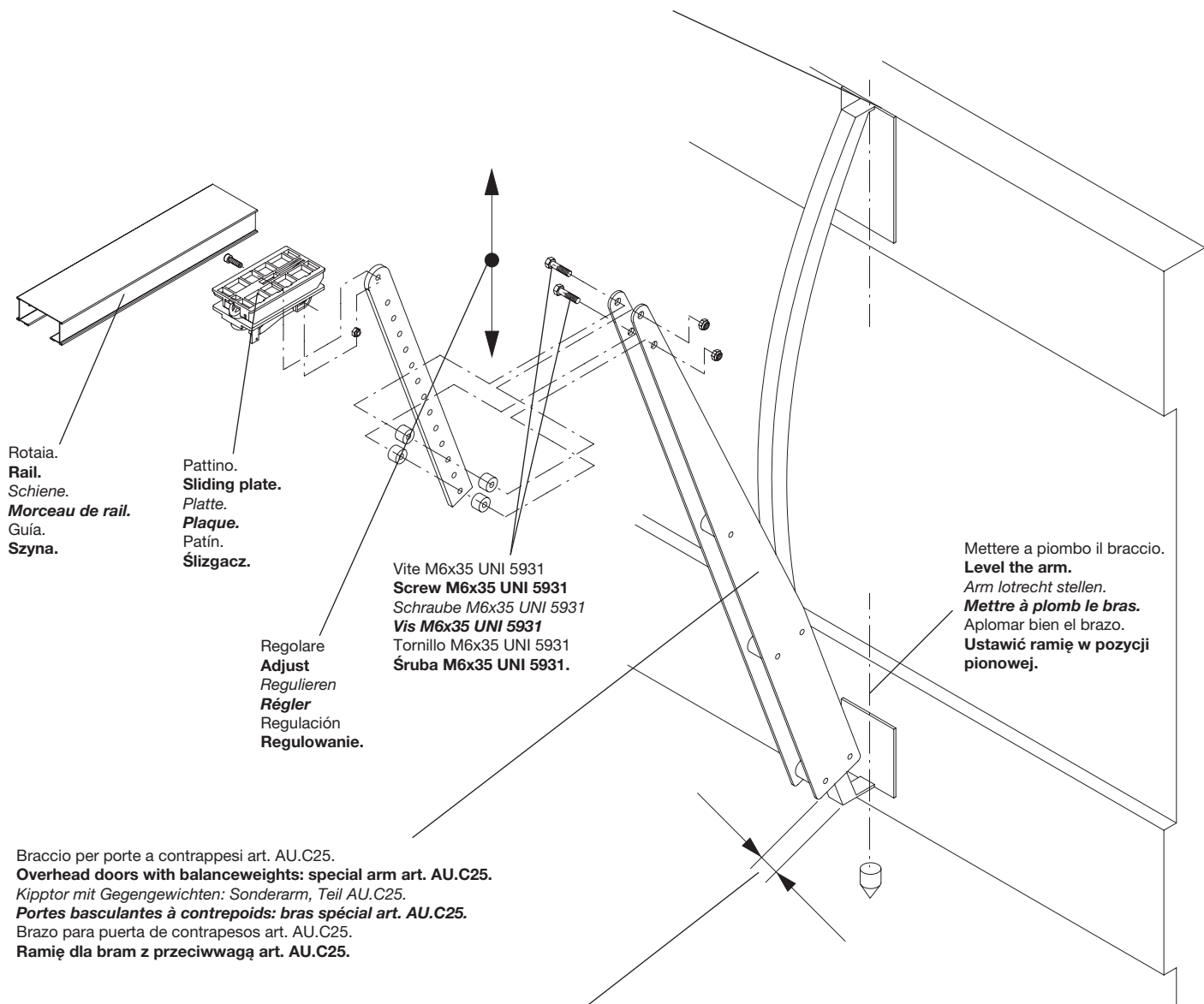


Fig.19

Fissare il braccio sul filo superiore della porta.  
**Fix the arm to the top edge of the door.**  
*Arm an der oberen Kante des Tores befestigen*  
**Fixer le bras sur l'arête supérieure de la porte.**  
 Fijar el brazo en la arista superior de la puerta.  
**Przymocować ramię do górnego prętu bramy.**



Braccio per porte a contrappesi art. AU.C25.  
**Overhead doors with balanceweights: special arm art. AU.C25.**  
*Kipptor mit Gegengewichten: Sonderarm, Teil AU.C25.*  
**Portes basculantes à contrepoids: bras spécial art. AU.C25.**  
 Brazo para puerta de contrapesos art. AU.C25.  
**Ramię dla bram z przeciwwagą art. AU.C25.**

A porta chiusa lasciare 2 ÷ 3 cm.  
**Keep a distance of 2 ÷ 3 cm when the door is closed.**  
*Wenn die Tür geschlossen ist, lassen 2 ÷ 3 cm.*  
**Il faut laisser 2 ÷ 3 cm quand la porte est ouvert.**  
 Cuando la puerta ésta cerrada, hay que haber 2 ÷ 3 cm.  
**Podczas zamkniętej bramy pozostawić 2 ÷ 3 cm.**

Fig.20

## Introduction

Thank you for choosing our **JM.3/JM.4** ratiomotor.

All items in the wide Benincà production range are the result of twenty-years' experience in the automatism sector and of continuous research for new materials and advanced technologies.

We are, therefore, in the position to offer highly reliable products that due to their power, effectiveness and useful life, fully satisfy the final user's requirements.

All our products are covered by warranty.

Possible injury to people or accidents caused by defects in construction are covered by a civil liability policy drawn up with one of the major insurance companies.

## 1. General information

The system has been studied to motorize sectional doors.

To be applied onto balancing doors, a special fitting arm is required (item AU.C25).

In any case, following conditions will have to be observed:

- the distance between the door highest point and the ceiling must be at least 40mm (fig. 1).
- it has to be possible to open and close the door by pulling and pushing horizontally its top edge (fig.1).
- manual moves must be smooth and regular.

The gear motor is available in two versions:

**JM.3 (600Nm)** and **JM.4 (1200Nm)** to which the following tracks can be matched (fig.2):

**PTC.3:** Pre-assembled track, with **8 mm** belt, **2.5m** max height, for **JM.3** only

**PTC.4:** Pre-assembled track, with **10 mm** belt, for doors with **2.5 m** max height, for **JM.3** and **JM.4**

**PTC.L4:** Pre-assembled track, with **10mm** belt, for doors with **3.5 m** max height, for **JM.3** and **JM.4**

## 2. Installation

- Place the track on a flat surface and lay it as shown in Fig.3
- Referring to Fig. 4, align both ends of the tracks and fit them with the two plates P, by using the eight M6X16 screws, the nuts D and the washers R.
- Make sure that the belt is correctly tensioned. If necessary, it can be adjusted through nut D, as shown in Fig.5.  
*The correctly tensioned belt keeps its position along the entire track, without bending, but still resilient at a slight pressure by hand.*
- Move the drive carrier (Fig.6) until the pulley housing (ref. S of Fig. 7) touches the motor shaft pin (ref. P of Fig. 7)
- Fix the track to the basis of the gear motor, as per Fig.7. Fit the track to the basis of the gear motor, with the five D4,8x38 screws.
- Fit the hooking bracket S to wall (Fig.8) or ceiling (Fig.9). Mark the two fitting points corresponding to the centre of the door. Hook the track to the bracket and fix it by means of nuts M and washers R. Rest the gear motor body on the floor.  
If there is not enough space to use the bracket S, the track can be fixed directly to the ceiling through the holes shown in Fig.10.
- Position the fitting brackets to ceiling by means of the special housings in the track, near the gear motor (Fig.11) and fix them by means of screws M and nuts D. Two fitting brackets for mounting to ceiling are supplied with PTC.4 and PTC.L4 tracks. They must be fitted near the joining point of the tracks.
- By using a ladder, hoist the gear motor (Fig.12), mark the fitting points of the brackets, drill the holes and fix the gear motor by means of screws and screw anchors suited to the material.
- Fix the opening and closing mechanical stoppers, at both ends of the track, as shown in Fig.13. The position of the stoppers will be adjusted during the final adjustment of the automatic system.
- Connect the driving rod A to the drive slide by means of the M6x20 cylinder head screws and the self-tapping nut. The rod movement should not be obstructed. Fix the bracket S to the door so that, with closed door, the rod A is in an almost vertical position. Shorten the drive rod A, if required.  
*In the event of heavy doors, it is recommended to use both upper and front holes.*
- Insert the cord in the release lever and in the knob. Make a knot as indicated in the detail of Fig.14.
- Apply the warning sticker supplied to the door:



## 3. How to store the opening and closing positions in memory

The gear motor is equipped with a control unit with a memorisation function of the opening and closing positions. The memorisation procedure is described in instructions supplied with the control unit and requires the positioning of the mechanical stoppers, cf. Fig.13.

## 4. How to regulate speed

On the transformer, two faston terminals are provided, indicated as F1 and F2 in Fig.15.

Faston F1 (white) regulates the opening and closing speed of the door and can be preset on three voltage positions:

<b>JM.3:</b> <ul style="list-style-type: none"><li>• 20V: for sectional and balancing doors (5.4 m/1')</li><li>• 28V: for sectional doors only (8 m/1')</li><li>• 35V: for sectional doors only (10 m/1')</li></ul>	<b>JM.4:</b> <ul style="list-style-type: none"><li>• 20V: for sectional and balancing doors (3.4 m/1')</li><li>• 28V: for sectional doors only (6 m/1')</li><li>• 35V: for sectional doors only (8 m/1')</li></ul>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Faston F2 (red) must not be moved from 20V position.

**WARNING!: The adjustment of the door movement speed affects the safety level of the automatic system**  
**Comply with regulations in force**

## 5. Accessories (optional)

### JM.CB Emergency Battery Kit:

It permits the operation of the automatic system in the event of power failure.

The kit is composed of: battery charge card, 2 batteries at 12V, fitting bracket, screws and cables.

The batteries must be installed on the upper part of the gear motor basis, as per Fig.16.

To connect batteries, please refer to specific instructions.

*Note: Once installed, the batteries protrude from the track upper profile by approx. 10mm.*

### JM.PP Cord Manual Control:

It permits the control of the automatic system from indoor by means of a cord, thus avoiding the installation of a keyboard. The kit is composed of: micro-switch group, cord control with knob, spring and cables (Fig.17)

For the installation, please refer to specific instructions.

Fig.19 shows the cord in working position.

## 6. Manual operation from outdoor

In sectional doors, the system can be released also from outdoor by using item JM.SF (Fig.19).

A. Insert the metal cable in the slide, as indicated in Figure 19.

B. Fit the adjuster on the bracket and insert the sheath.

C. Fix the other end of the cable to the release device. The figure shows an example of connection to the garage door handle AU.MS.

**N.B.: Any type of cord release device can be used under the condition that the release stroke is of at least 15 mm.**

If the device is able to keep the lever in the release position (e.g. AU.MS) it would be easier to cut the hooking lever, as shown in the detail of Fig. 19. In this way, by moving the handle in the original position, the automatic operation is reset.

## 7. Assembling onto balancing doors

Overhead door with balanceweights (fig.20): these doors need the special arm art. AU.C25.

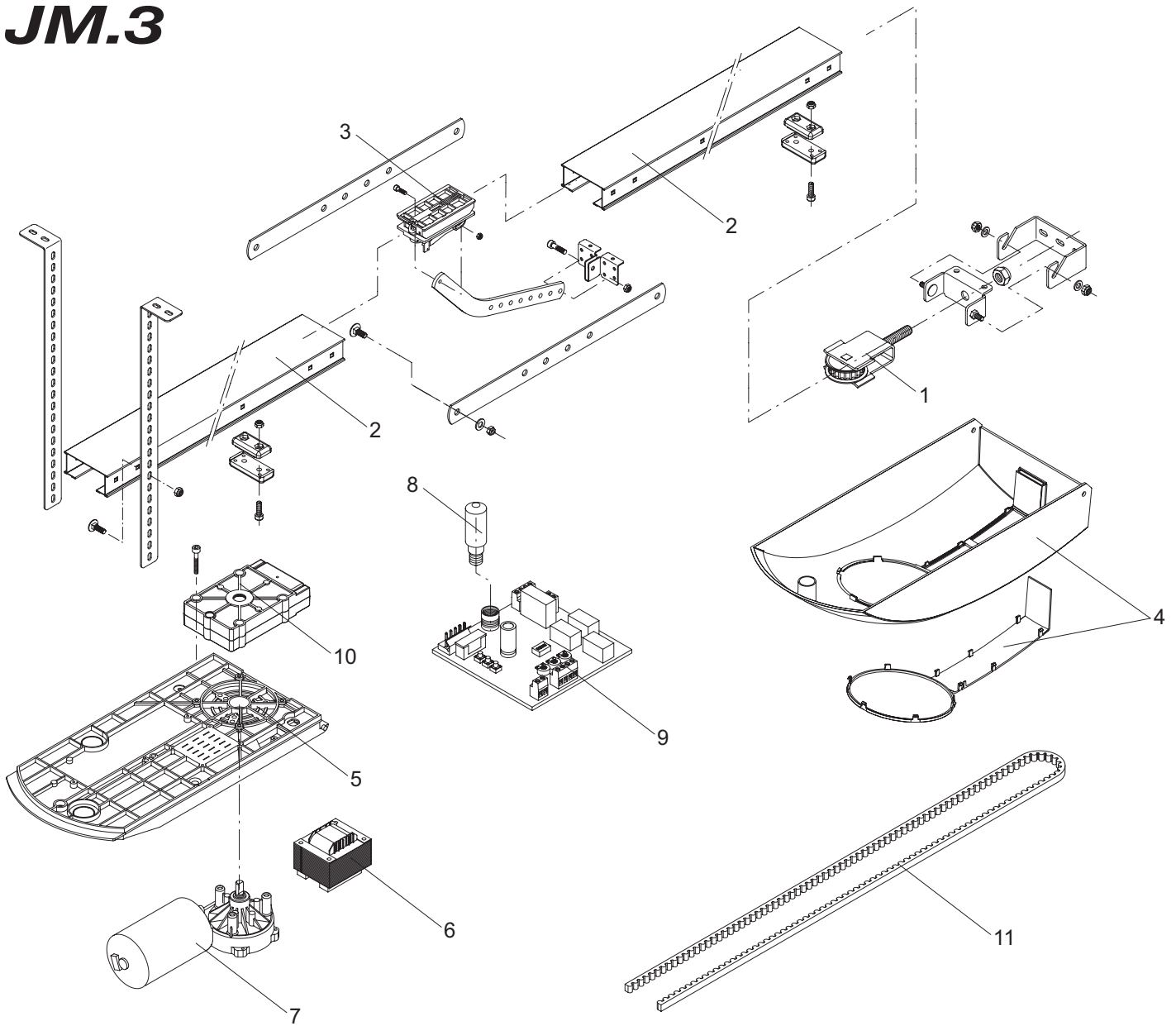
In order to assemble it make sure that:

- the arm is fixed to the top edge of the door.
- the arm is levelled.

## CAUTION

The civil liability policy, which covers possible injuries to people or accidents caused by defects in construction, requires to use original Benincà accessories.

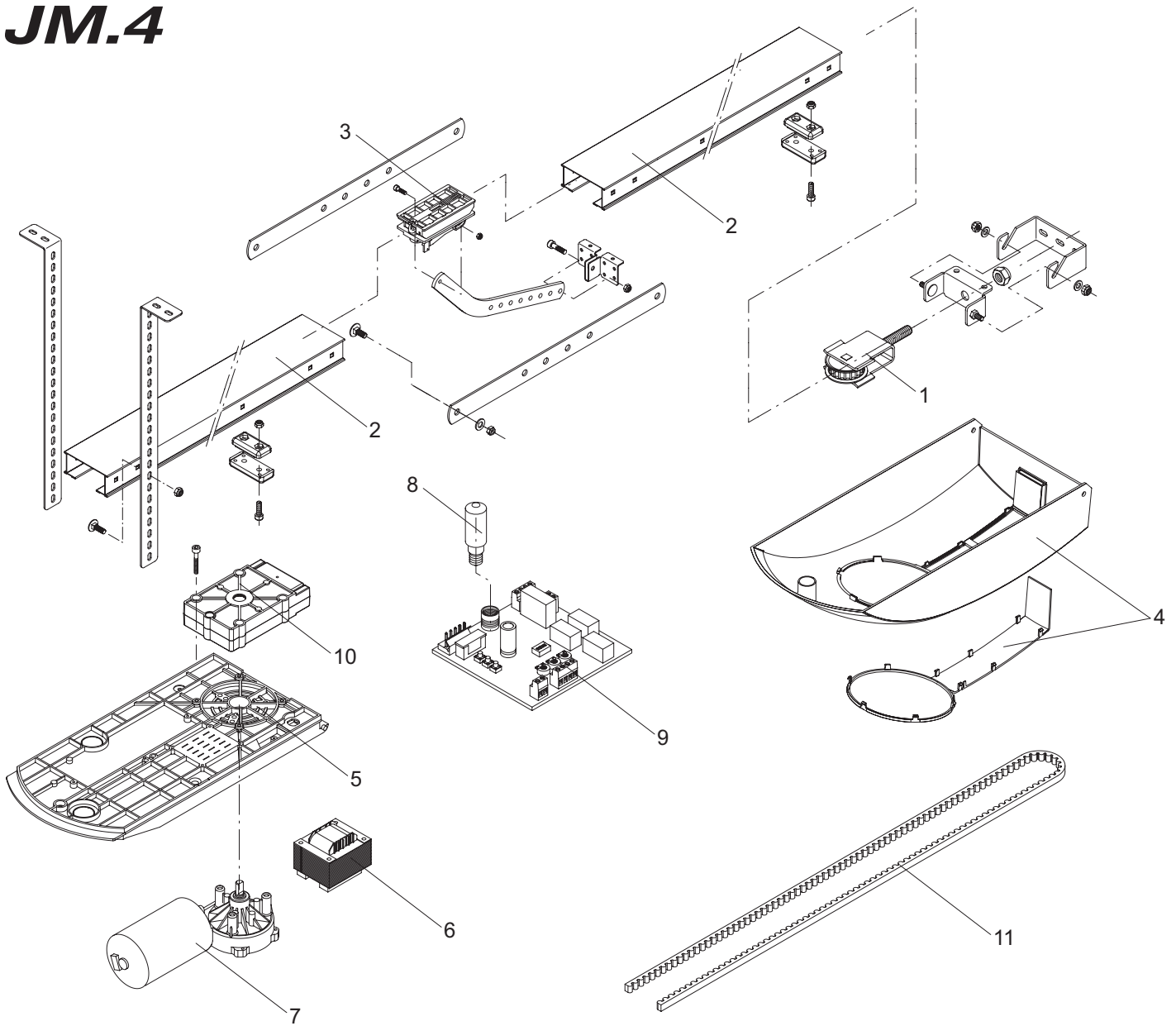
# JM.3



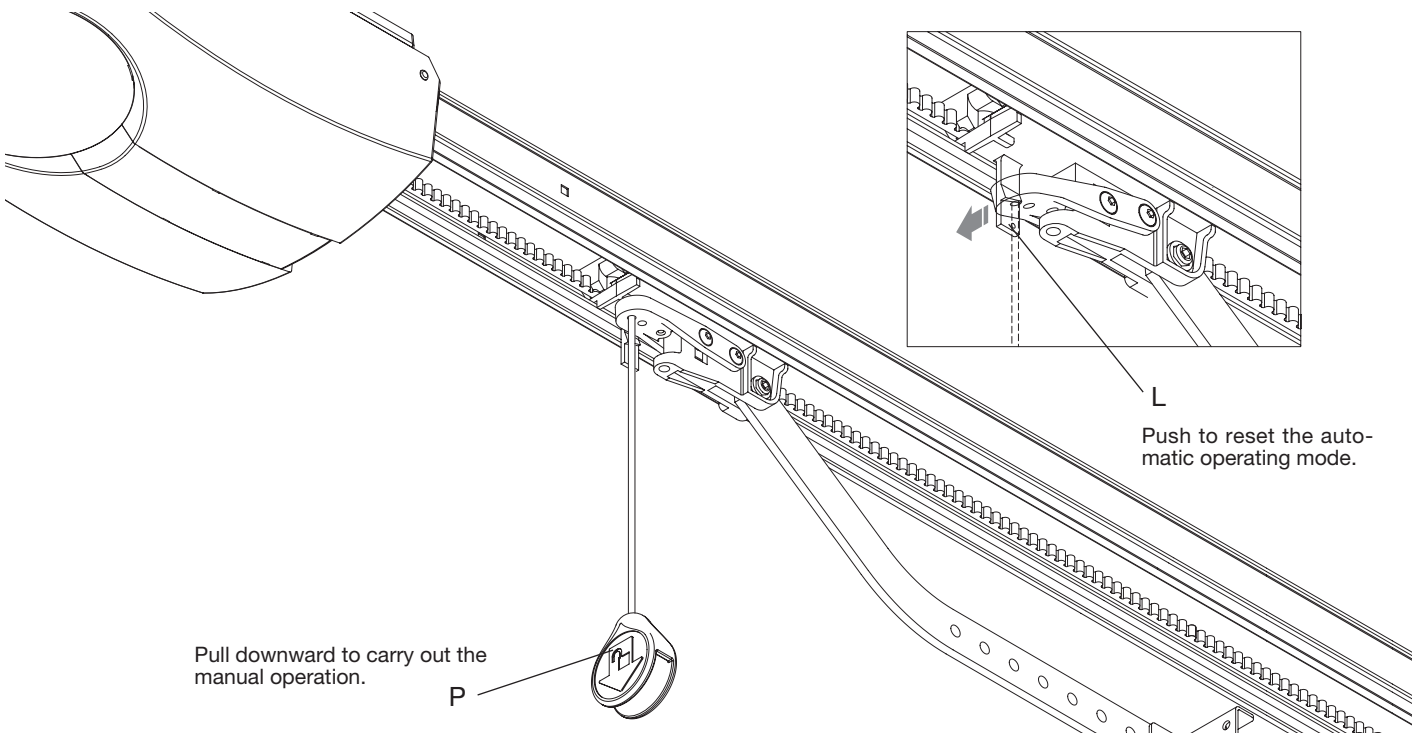
Pos.	Denominazione - Description - Bezeichnung - Dénomination - Denominación - Określenie						JIM 3 Cod.
1	Tendicinghia	<b>Belt tightening</b>	<i>Riemenspanner</i>	<i>Tendeur de cour.</i>	Tensor correa	<b>Naciągacz pasa</b>	9686670
2	Rotaia PTC.3/4	<b>Rail PTC.3/4</b>	<i>Schiene PTC.3/4</i>	<i>Rail PTC.3/4</i>	Guía PTC.3/4	<b>Szyrna PTC.3/4</b>	9686671
	Rotaia PTC.L4	<b>Rail PTC.L4</b>	<i>Schiene PTC.L4</i>	<i>Rail PTC.L4</i>	Guía PTC.L4	<b>Szyrna PTC.L4</b>	9686672
3	Carro trascinam.	<b>Drive trolley</b>	<i>Mitnehmerwagen</i>	<i>Chariot d'entr.</i>	Patín de tracción	<b>Wózek ciągnący</b>	9686673
4	Carter	<b>Guard</b>	<i>Gehäuse</i>	<i>Carter</i>	Tapa	<b>Karter</b>	9686674
5	Base	<b>Basis</b>	<i>Basis</i>	<i>Base</i>	Base	<b>Podstawa</b>	9686680
6	Trasformatore	<b>Transformer</b>	<i>Transformator</i>	<i>Transformateur</i>	Trasformador	<b>Transformator</b>	9686675
7	Motore	<b>Motor</b>	<i>Motor</i>	<i>Moteur</i>	Motor	<b>Silnik</b>	9686676
8	Lampada (4 pz)	<b>Lamp</b>	<i>Lampe</i>	<i>Lampe</i>	Lámpara	<b>Lampa</b>	9686686
9	CP.J3	<b>CP.J3</b>	<i>CP.J3</i>	<i>CP.J3</i>	CP.J3	<b>CP.J3</b>	9686678
10	Supporto Rotaia	<b>Track Support</b>	<i>Schienehalterung</i>	<i>Support Rail</i>	Soporte Riel	<b>Wspornik szyny</b>	9686681
11	Cinghia PTC.3 (8)	<b>Belt PTC.3 (8)</b>	<i>Riemen PTC.3 (8)</i>	<i>Courroie PTC.3 (8)</i>	Correa PTC.3 (8)	<b>Pas PTC.3 (8)</b>	9686682
	Cinghia PTC.4 (10)	<b>Belt PTC.4 (10)</b>	<i>Riemen PTC.4 (10)</i>	<i>Courroie PTC.4 (10)</i>	Correa PTC.4 (10)	<b>Pas PTC.4 (10)</b>	9686683
	Cinghia PTCL.4 (10)	<b>Belt PTCL.4 (10)</b>	<i>Riemen PTCL.4 (10)</i>	<i>Courroie PTCL.4 (10)</i>	Correa PTCL.4 (10)	<b>Pas PTCL.4 (10)</b>	9686684



# JM.4



Pos.	Denominazione - Description - Bezeichnung - Dénomination - Denominación - Określenie						JIM 4 Cod.
1	Tendinghia	<b>Belt tightening</b>	<i>Riemenspanner</i>	<b>Tendeur de cour.</b>	Tensor correa	<b>Naciągacz pasa</b>	9686670
2	Rotaia PTC.3/4	<b>Rail PTC.3/4</b>	<i>Schiene PTC.3/4</i>	<b>Rail PTC.3/4</b>	Guía PTC.3/4	<b>Szyna PTC.3/4</b>	9686671
	Rotaia PTC.L4	<b>Rail PTC.L4</b>	<i>Schiene PTC.L4</i>	<b>Rail PTC.L4</b>	Guía PTC.L4	<b>Szyna PTC.L4</b>	9686672
3	Carro trascinam.	<b>Drive trolley</b>	<i>Mitnehmerwagen</i>	<b>Chariot d'entr.</b>	Patin de tracción	<b>Wózek ciągnący</b>	9686673
4	Carter	<b>Guard</b>	<i>Gehäuse</i>	<b>Carter</b>	Tapa	<b>Karter</b>	9686674
5	Base	<b>Basis</b>	<i>Basis</i>	<b>Base</b>	Base	<b>Podstawa</b>	9686680
6	Trasformatore	<b>Transformer</b>	<i>Transformator</i>	<b>Transformateur</b>	Trasformador	<b>Transformator</b>	9686926
7	Motore	<b>Motor</b>	<i>Motor</i>	<b>Moteur</b>	Motor	<b>Silnik</b>	9686677
8	Lampada	<b>Lamp</b>	<i>Lampe</i>	<b>Lampe</b>	Lámpara	<b>Lampa</b>	9686252
9	CP.J4	<b>CP.J4</b>	<i>CP.J4</i>	<b>CP.J4</b>	CP.J4	<b>CP.J4</b>	6986679
10	Supporto Rotaia	<b>Track Support</b>	<i>Schienehalterung</i>	<b>Support Rail</b>	Soporte Riel	<b>Wspornik szyny</b>	9686681
11	Cinghia PTC.4 (10)	<b>Belt PTC.4 (10)</b>	<i>Riemen PTC.4 (10)</i>	<b>Courroie PTC.4 (10)</b>	Correa PTC.4 (10)	<b>Pas PTC.4 (10)</b>	9686683
	Cinghia PTCL.4 (10)	<b>Belt PTCL.4 (10)</b>	<i>Riemen PTCL.4 (10)</i>	<b>Courroie PTCL.4 (10)</b>	Correa PTCL.4 (10)	<b>Pas PTCL.4 (10)</b>	9686684



### Safety rules

- Do not stand in the movement area of the door.
- Do not let children play with controls and near the door.
- Should operating faults occur, do not attempt to repair the fault but call a qualified technician.

### Manual operation from the inside

To release the automatic system and manually operate the door, pull the knob P down. To reset to automatic operation, push the lever L and send an opening or closing control signal to the automatic system. If the height at which the system is fitted renders the level L difficult to reach, use another cord with knob.

### Maintenance

- Every month check the good operation of the emergency manual release.
- It is mandatory not to carry out extraordinary maintenance or repairs as accidents may be caused. These operations must be carried out by qualified personnel only.
- The operator is maintenance free but it is necessary to check periodically if the safety devices and the other components of the automation system work properly. Wear and tear of some components could cause dangers.

### Waste disposal

If the product must be dismantled, it must be disposed according to regulations in force regarding the differentiated waste disposal and the recycling of components (metals, plastics, electric cables, etc..). For this operation it is advisable to call your installer or a specialised company.

### Warning

All Benincá products are covered by insurance policy for any possible damages to objects and persons caused by construction faults under condition that the entire system be marked CE and only Benincá parts be used.