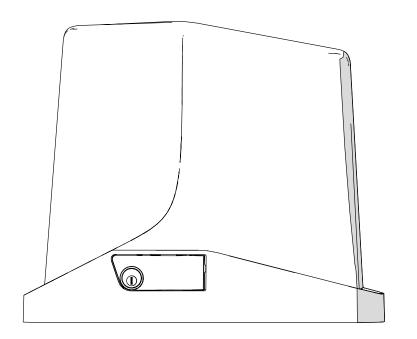


Instructions and warnings for installation and use

Istruzioni ed avvertenze per l'installazione e l'uso Instructions et avertissements pour l'installation et l'usage Anleitungen und Hinweise zu Installation und Einsatz Instrucciones y advertencias para su instalación y uso Instruções e advertências para a instalação e utilização Instrukcje i zalecenia dotyczące instalacji i użytkowania



# TURBO S

## Gear-motor for sliding gates

Motoriduttori per scorrevoli Motoreducteur pour coulissants Motorreductores para rejas correderas Getriebe für Schiebegitter Motorredutores para portões de correr Napęd silnikowy do bram przesuwnych



Management System ISO 9001

www.tuv.com ID 9105043769

# INDEX

EN

1	Safety warnings	pag. 3
2	Product overview	pag. 5
2.1	Product description	pag. 5
2.2	Model and technical characteristics	pag. 5
3	Preliminary checks	pag. 7
4	Product Installation	pag. 7
4.1	Installation	pag. 7
4.2	Fixing	pag. 7
4.2.1	Fixing on existing installations (retrofit)	pag. 7
4.3	Rack assembling	pag. 7
4.4	Limit switch fixing	pag. 8
4.5	Manual running	pag. 8
4.6	Lid closure	pag. 8
5	Testing and commissioning the automation	pag. 8
5.1	Testing	pag. 8
5.2	Commissioning	pag. 8
6	Images	pag. 51
7	CE declaration of conformity	pag. 55

## ATTENTION !

ORIGINAL INSTRUCTIONS - important safety instructions. Follow the instructions since incorrect installation can lead to severe inquiry! Save these instructions.

Read the instructions carefully before proceeding with installation.

The design and manufacture of the devices making up the product and the information in this manual are compliant with current safety standards. However, incorrect installation or programming may cause serious injury to those working on or using the system. Compliance with the instructions provided here when installing the product is therefore extremely important.

If in any doubt regarding installation, do not proceed and contact the Key Automation Technical Service for clarifications.

Under European legislation, an automatic door or gate system must comply with the standards envisaged in the Directive 2006/42/EC (Machinery Directive) and in particular standards; EN 12453; EN 12635 and EN 13241-1, which enable declaration of presumed conformity of the automation system.

Therefore, final connection of the automation system to the electrical mains, system testing, commissioning and routine maintenance must be performed by skilled, qualified personnel, in observance of the instructions in the "Testing and commissioning the automation system" section.

The aforesaid personnel are also responsible for the tests required to verify the solutions adopted according to the risks present, and for ensuring observance of all legal provisions, standards and regulations, with particular reference to all requirements of the EN 12453 standard which establishes the test methods for testing door and gate automation systems.

#### ATTENTION !

# Before starting installation, perform the following checks and assessments:

ensure that every device used to set up the automation system is suited to the intended system overall. For this purpose, pay special attention to the data provided in the "Technical specifications" section. Do not proceed with installation if any one of these devices is not suitable for its intended purpose;

check that the devices purchased are sufficient to guarantee system safety and functionality; perform a risk assessment, including a list of the essential safety requirements as envisaged in Annex I of the Machinery Directive, specifying the solutions adopted. The risk assessment is one of the documents included in the automation system's technical file. This must be compiled by a professional installer.

Considering the risk situations that may arise during installation phases and use of the product, the automation system must be installed in compliance with the following safety precautions:

never make modifications to any part of the automation system other than those specified in this manual. Operations of this type can only lead to malfunctions. The manufacturer declines all liability for damage caused by unauthorised modifications to products;

if the power cable is damaged, it must be replaced by the manufacturer or its after-sales service, or in all cases by a person with similar qualifications, to prevent all risks;

do not allow parts of the automation system to be immersed in water or other liquids. During installation ensure that no liquids are able to enter the various devices; should this occur, disconnect the power supply immediately and contact a Key Automation Service Centre. Use of the automation system in these conditions may cause hazards;

never place automation system components near to sources of heat or expose them to naked lights. This may damage system components and cause malfunctions, fire or hazards;

## **ATTENTION** !

The drive shall be disconnected from its power source during cleaning, maintenance and when replacing parts. If the disconnect device is not in a visible location, affix a notice stating: "MAINTE-NANCE IN PROGRESS":

connect all devices to an electric power line equipped with an earthing system;

the product cannot be considered to provide effective protection against intrusion. If effective protection is required, the automation system must be combined with other devices;

the product may not be used until the automation system "commissioning" procedure has been performed as specified in the "Automation system testing and commissioning" section;

the system power supply line must include a circuit breaker device with a contact gap allowing complete

disconnection in the conditions specified by class III overvoltage;

use unions with IP55 or higher protection when connecting hoses, pipes or cable glands;

the electrical system upstream of the automation system must comply with the relevant regulations and be constructed to good workmanship standards;

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;

before starting the automation system, ensure that there is no-one in the immediate vicinity;

before proceeding with any cleaning or maintenance work on the automation system, disconnect it from the electrical mains;

special care must be taken to avoid crushing between the part operated by the automation system and any fixed parts around it;

children must be supervised to ensure that they do not play with the equipment;

that the drive cannot be used with a driven part incorporating a wicket door unless the drive can only be operated with the wicket door in the safe position;

install any fixed control at a height of at least 1,5m and within sight of the door but away from moving parts;

after installation, ensure that parts of the door do not extend over public footpaths or roads;

when the appliance is provided with a separate stop button, that stop button shall be unambiguously identifiable;

install the automation exclusively on gates operating on flat surfaces, that is, they are not installed on an up or down tilt;

install exclusively on gates that are sturdy enough and suitable to withstand the loads generated by the automation itself;

do not subject the automation to direct jets of water, such as sprinklers or pressure washers;

if the automation system exceeds 20 kg in weight, it must be handled using safety lifting devices (IEC 60335-2-103: 2015);

provide appropriate safety protections in order to avoid crushing and becoming trapped between the moving guided part and any surrounding fixed elements;

make sure that any protection or safety devices, in ad-

dition to the manual release, work correctly;

place the automation identification plate at a clearly visible point;

keep the manuals and technical files of all the devices used to create the automation;

at the end of the automation installation it is advisable to hand over the manuals relating to the warnings intended for the end user;

## **ATTENTION** !

Frequently examine the installation for imbalance where applicable and signs of wear or damage to cables, springs and mounting. Do not use if repair or adjustment is necessary.

## **ATTENTION** !

Packaging components (cardboard, plastic, etc.), duly separated, must be placed in the appropriate bins. Device components such as electronic boards, metal parts, batteries, etc. must be separated and differentiated. For the methods of disposal, the rules in force in the place of installation must be applied. DO NOT DISPOSE IN THE ENVIRONMENT!

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KEY AUTOMATION S.r.l. reserves the right to amend these instructions if necessary; they and/ or any more recent versions are available at <u>www.</u> <u>keyautomation.com</u>

### 2.1 - Product description

Irreversible electromechanical gearmotor for sliding gates operating at 24 Vdc and 230 Vac. (Fig.1)

## 2.2 - Model and technical characteristics

CODE	DESCRIPTION
TUS60	230 Vac gear motor with mechanical limit switches, gate maximum weight 600 kg, without control unit
TUS62	230 Vac gear motor with mechanical limit switches, gate maximum weight 600 kg
TUS62M	230 Vac gear motor with magnetic limit switches, gate maximum weight 600 kg
TUS4324	24 Vdc gear motor with mechanical limit switches, gate maximum weight 400 kg
TUS90	230 Vac gear motor with mechanical limit switches, gate maximum weight 900 kg, without control unit
TUS92	230 Vac gear motor with mechanical limit switches, gate maximum weight 900 kg
TUS92M	230 Vac gear motor with magnetic limit switches, gate maximum weight 900 kg
TUS7324	24 Vdc gear motor with mechanical limit switches, gate maximum weight 700 kg
TUS120	230 Vac gear motor with mechanical limit switches, gate maximum weight 1200 kg, without control unit
TUS122	230 Vac gear motor with mechanical limit switches, gate maximum weight 1200 kg
TUS122M	230 Vac gear motor with magnetic limit switches, gate maximum weight 1200 kg
TUS11324	24 Vdc gear motor with mechanical limit switches, gate maximum weight 1100 kg
TUS162	230 Vac gear motor with mechanical limit switches, gate maximum weight 1600 kg

TECHNICAL DATA					
MODEL		TUS60	TUS62	TUS62M	TUS4324
Speed*	cm/s	16	16	16	24
Torque	Nm	16	16	16	12
Max working cycle**	Cycles/hour	20	20	20	40
Control unit	Mod.	-	CT102B	CT102B	CT10324
Power		230 Vac 50/60 Hz			
Motor power		230 Vac	230 Vac	230 Vac	24 Vdc
Consumption	А	1,7	1,7	1,7	1,1
Maximum power	W	380	380	380	250
Capacitor	μF	12,5	12,5	12,5	-
Thermoprotection	°C	150	150	150	-
Protection degree	IP	44	44	44	44
Product dimensions (L - P- H)	mm	335 - 190 - 280	335 - 190 - 280	335 - 190 - 280	335 - 190 - 280
Product weight	kg	9,1	9,1	9,1	7
Working temperature	°C	-20 +55	-20 +55	-20 +55	-20 +55
Max gate weight	kg	600	600	600	400
Sound emission level	dB(A)	≤ 70	≤ 70	≤ 70	≤ 70

TECHNICAL DATA					
MODEL		TUS90	TUS92	TUS92M	TUS7324
Speed*	cm/s	16	16	16	25
Torque	Nm	29	29	29	26
Max working cycle**	Cycles/hour	20	20	20	40
Control unit	Mod.	-	CT102B	CT102B	CT10324
Power		230 Vac 50/60 Hz			
Motor power		230 Vac	230 Vac	230 Vac	24 Vdc
Consumption	A	2	2	2	1,5

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Maximum power	W	450	450	450	345
Capacitor	μF	16	16	16	-
Thermoprotection	°C	150	150	150	-
Protection degree	IP	44	44	44	44
Product dimensions (L - P- H)	mm	335 - 190 - 280	335 - 190 - 280	335 - 190 - 280	335 - 190 - 280
Product weight	kg	9,8	9,8	9,8	8,5
Working temperature	°C	-20 +55	-20 +55	-20 +55	-20 +55
Max gate weight	kg	900	900	900	700
Sound emission level	dB(A)	≤ 70	≤ 70	≤ 70	≤ 70

TECHNICAL DATA					
MODEL		TUS120	TUS122	TUS122M	TUS11324
Speed*	cm/s	16	16	16	20
Torque	Nm	35	35	35	38
Max. working cycle	Cycles/hour	20	20	20	50
Control unit	Mod.	-	CT102B	CT102B	CT10324
Power		230 Vac 50/60 Hz			
Motor power		230 Vac	230 Vac	230 Vac	24 Vdc
Consumption	A	2,6	2,6	2,6	1,3
Maximum power	W	600	600	600	300
Capacitor	μF	20	20	20	-
Thermoprotection	°C	150	150	150	-
Protection degree	IP	44	44	44	44
Product dimensions (L - P- H)	mm	335 - 190 - 280	335 - 190 - 280	335 - 190 - 280	335 - 190 - 280
Product weight	kg	10,8	10,8	10,8	8,8
Working temperature	°C	-20 +55	-20 +55	-20 +55	-20 +55
Max gate weight	kg	1200	1200	1200	1100
Sound emission level	dB(A)	≤ 70	≤ 70	≤ 70	≤ 70

TECHNICAL DATA		
MODEL		TUS162
Speed*	cm/s	16
Torque	Nm	40
Max. working cycle	Cycles/hour	20
Control unit	Mod.	CT102B
Power		230 Vac 50/60 Hz
Motor Power		230 Vac
Consumption	А	3
Maximum power	W	700
Capacitor	μF	20
Thermoprotection	°C	150
Protection degree	IP	44
Product dimensions (L - P- H)	mm	335 - 190 - 280
Product weight	kg	11,5
Working temperature	°C	-20 +55
Max gate weight	kg	1600
Sound emission level	dB(A)	≤ 70

\* Variable data according to gate weight

\*\* Cycles/hour referring to a standard leaf with a length of 4m and weight of 200Kg, evaluated at an ambient temperature of 20°C.

For leaves longer than 4m the maximum number of cycles/hour must be reduced proportionally (for example, for 8m leaves the maximum number of cycles/hour must be reduced by 50%). For environmental temperatures above 20°C the maximum number of cycles/hour will be reduced by 15% for every 5°C increase in temperature (for example, for an environmental temperature of 30°C the maximum number of cycles/hour will be reduced by 30%).

For doors whose weight corresponds to the maximum use limit for that type of product, the maximum number of cycles/hour will be reduced by 50%.

EN

## **3 - PRELIMINARY CHECKS**

EN

Before installing this product, verify and check the following steps:

- Check that the gate or door are suitable for automation

- The weight and size of the gate or door must be within the maximum permissible operating limits specified at **paragraph 2.2** 

- Check the presence and strength of the security mechanical stops of the gate or door

- Check that the mounting area of the product is not subject to flooding

- Conditions of high acidity or salinity or proximity to heat sources could cause malfunction of the product

- Extreme weather conditions (for example the presence of snow, ice, high temperature range, high temperatures) may increase the

friction and therefore the force required for the handling and initial starting point may be higher than under normal conditions. - Check that the manual operation of gate or door is smooth and friction-free and there is no risk of derailment of the same

- Check that the gate or door are in equilibrium and stationary if left in any position

- Check that the power line to supply the product is equipped with proper grounding safety and protected by a magnetothermal and differential security device

- Provide the power system with a disconnecting device with a gap of contacts enabling full disconnection under the conditions dictated by the overvoltage category III.

- Ensure that all materials used for the installation comply with current regulations

## **4 - PRODUCT INSTALLATION**

#### 4.1 - Installation

ATTENTION ! The installer must verify that the working temperature range stated on the automation device is suitable for the location where it is installed.

**ATTENTION** !

be equipped with a pressure-sensitive edge protecting all possible crushing points (hands, feet, etc.) in accordance with the requirements of the EN 13241-1 standard.

ATTENTION ! The gate has to be equipped with stop locks at the opening and closing, which prevent the gate derailment.

Respecting the overall size, fix to ground the base-plate through 4 sturdy screw-anchors (Fig.3) or drown it into the concrete (Fig.3). Plan for one or more sheathing for the passage of the power lines.

N.B. The exact dimensions of the rack must be known to allow precise calculation of the counterplate position.

Fig.2 is an example of a typical system:

Post for photocells (1) Automation electromechanical (2) Photocell detectors (3) Flashing light (4) Key switch (5) Radio transmitter (6) Pressure-sensitive edge (7)

#### 4.2 - Fixing

Take the lid off (Fig.4). Put the gearmotor on the plate. Insert the two socket head screws (Fig.4.6).

It is important to lock the two socket head screws forcefully, making sure, that the gearmotor is firmly on the ground, during the whole movement/operation of the gate.

If the regulating allowed by the rack is not sufficient, it is possible to counterbalance the gearmotor high working on the four screws (Fig.4.7).

The screws should be tightened again after the motor has been operated a few times.

#### 4.2.1 - Fixing on existing installations (retrofit)

TURBO S can be installed as a replacement for existing automations in the TURBO product line by Key Automation, without the need for additional accessories, using the existing counterplate. However, since the pinion of TURBO S is lower than that of TURBO, it is necessary to raise the new motor by 3mm using the supplied M8x35 headless screws. TURBO S can also be installed as a replacement for existing automations in the CAME BX line and NICE Robus 600/1000 (without the need for additional accessories) or in the FAAC 746 line (using the optional accessory STAF097A00). Please refer to the images in Fig. 5.1-5.18 for retrofitting methods on competitors' installations.

#### 4.3 - Rack assembling

Release the gearmotor as indicated by the Fig.8 and open entirely the gate. Put a rack element on the pinion gear and fasten it to the gate with screw and spacing bars.

Move the gate manually bringing the pinion gear into line with the last spacing bar.

Fasten the rack element for good.

For a correct positioning of the other elements and to assure their

straightness, it is necessary to employ a rack element using it as support and reference (Fig.6.3).

It is besides necessary to assure an aperture of 2 mm between rack and pinion gear, so that the gate weight doesn't rest on the gearmotor pinion gear (Fig.6.2).

#### 4.4 - Limit switch fixing

The gate has to be equipped with stop locks at the opening and closing, which prevent the gate derailment.

The stop lock position must assure that the limit switch brackets don't collide with the pinion gear.

Haul the gate manually at the opening leaving, depending on the

gate weight, a crack from 30 to 50 mm between the main gate and mechanical stop.

Fasten the limit switch bracket through the dowels (Fig.7.2) so that the limit switch is pressed (Fig.7.1).

Repeat the operation with the main gate at the closing.

#### 4.5 - Manual running

Insert the key and turn it  $90^{\circ}$  in anticlockwise direction. (Fig.8) Pull the knob till it is perpendicular to the gearmotor.



Take care to re-engage the gearmotor before starting it up. Engaging with the motor running may damage its internal components.

#### 4.6 - Lid closure

- Place the lid on the base, making sure that the two rear ribs of the base fit into the holes on the back of the cover (Fig. 4.5) and that the front tab fits into its housing (Fig. 4.3).

- Mount the screw from the accessory bag into the hole located in

the center of the lid tab, behind the release lever (Fig. 4.2).

- Close the release lever.

#### 5 - TESTING AND COMMISSIONING THE AUTOMATION

The system must be tested by a qualified technician, who must perform the tests required by the relevant standards in relation to the risks present and must check that the installation complies with the relevant regulatory requirements, especially with the EN12453 standard which specifies the test methods for gate and door automation systems.

#### 5.1 - Testing

All the system components must be tested following the procedures described in their respective operator manuals;

ensure that the recommendations in Chapter 1 – Safety Warnings - have been complied with;

check that the door can move freely once the automation is released and that it is in balance and therefore remains stationary if left in any position; check that all the connected devices (photocells, sensitive edges, emergency buttons, etc.) are operating correctly by performing door opening, closing and stop tests using the connected control devices (transmitters, buttons or switches);

perform the impact measurements as required by the EN12453 standard, adjusting the control unit's speed, motor force and deceleration functions if the measurements do not give the required results, until the correct setting is obtained.

#### 5.2 - Commissioning

Once all (and not just some) of the system devices have passed the testing procedure, the system can be commissioned;

the system's technical dossier must be produced and kept for 10 years. It must contain the electrical wiring diagram, a drawing or photograph of the system, the analysis of the risks and the solutions adopted to deal with them, the manufacturer's declaration of conformity for all connected devices, the operator's manual for every device and the system maintenance plan;

fix a plate on the door indicating the automation data, the name of the person responsible for commissioning, the serial number, the year of construction and the CE mark;

also fit a plate specifying the procedure for releasing the system by hand;

draw up the declaration of conformity, the instructions and precautions for use for the end user and the system maintenance plan and consign them to the end user;

ensure that the user has fully understood how to operate the system in automatic, manual and emergency modes;

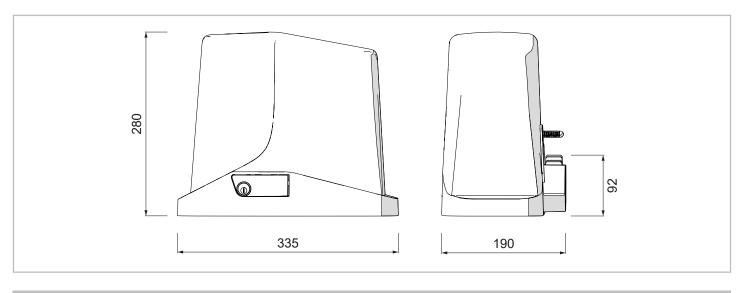
the end user must also be informed in writing about any risks and hazards still present;

## **ATTENTION** !

After detection of an obstacle, the door stops on opening and automatic closing is excluded; to resume movement, press the control button or use the transmitter.

- Fig. 1 IT Descrizione del prodotto EN Product description FR Description du produit ES Descripción del producto

- DE Produktbeschreibung PT Descrição do produto PL Opis produkcie



- Fig. 2 IT Installazione tipica EN Typical installation FR Installation typique ES Instalación típica

- DE Typische Installation PT Instalação típica
- PL Typowy sposób instalacji

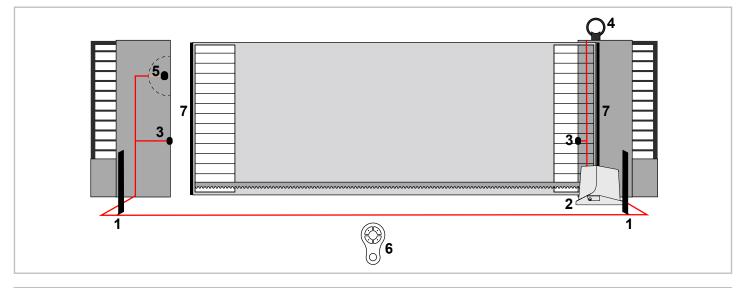
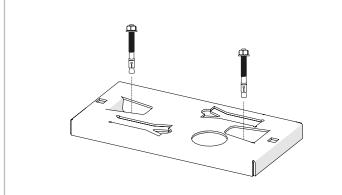
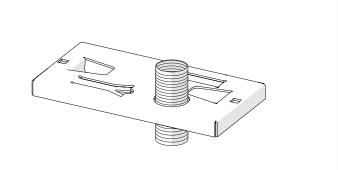
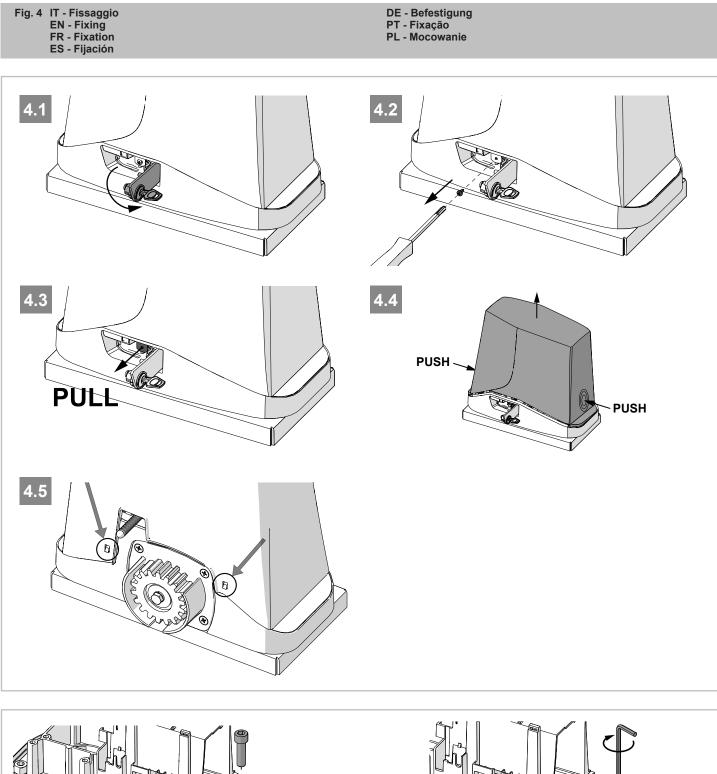


Fig. 3 IT - Installazione EN - Installing FR - Installation ES - Instalación

- **DE** Installation PT - Instalação PL - Instalacja







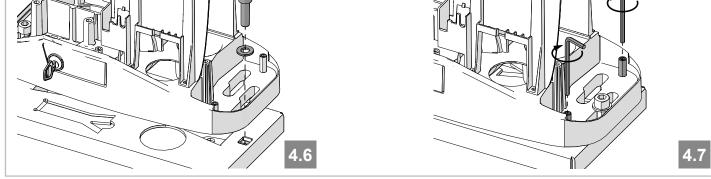
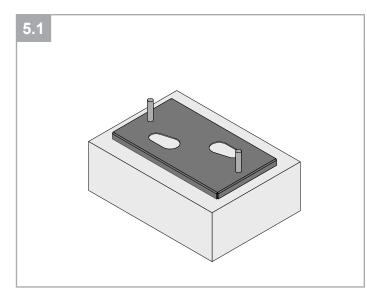
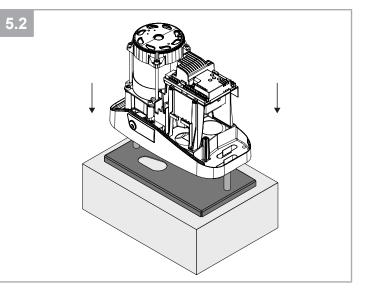
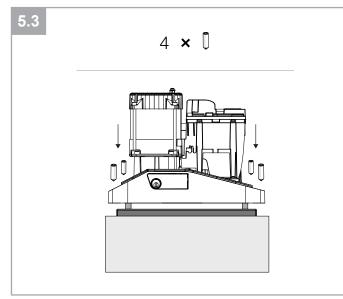


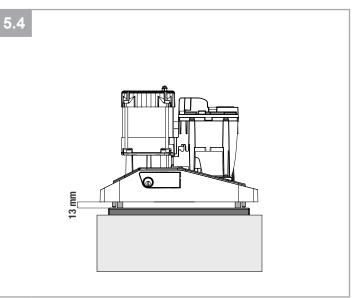
Fig. 5 IT - Retrofit TURBO S su CAME BX \* EN - TURBO S retrofit with CAME BX \* FR - Retrofit TURBO S sur CAME BX \* ES - Retrofit TURBO S en CAME BX \*

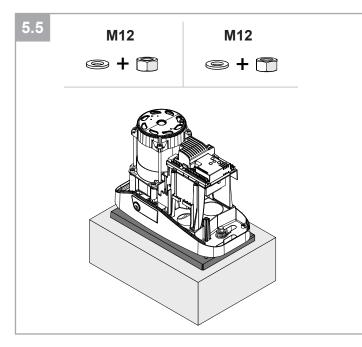
DE - Retrofit TURBO S auf CAME BX \* PT - Retrofit TURBO S em CAME BX \* PL - Zastąpienie TURBO S na CAME BX \*





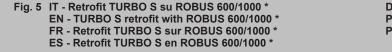


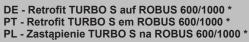


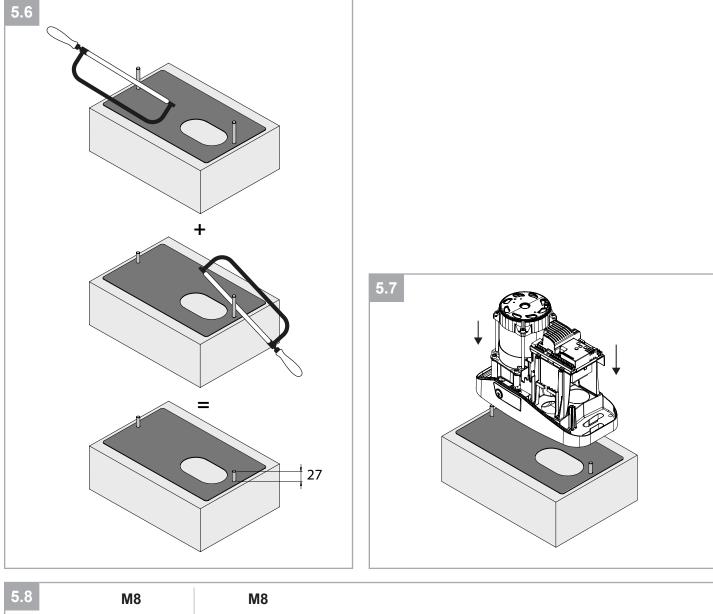


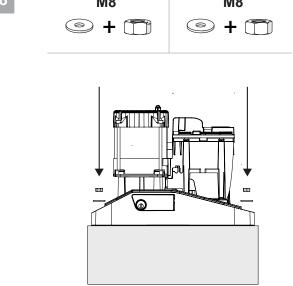
\* I marchi citati non sono di proprietà di KEY AUTOMATION \* The brands mentioned are not owned by KEY AUTOMATION \* Les marques mentionnées ne sont pas la propriété de KEY AUTOMATION \* Die genannten Marken gehören nicht zu KEY AUTOMATION

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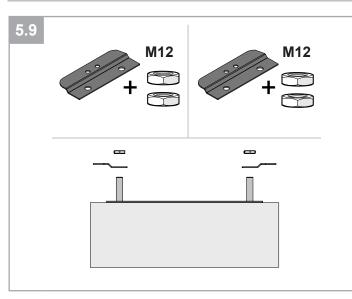


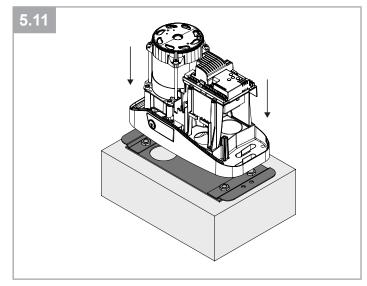


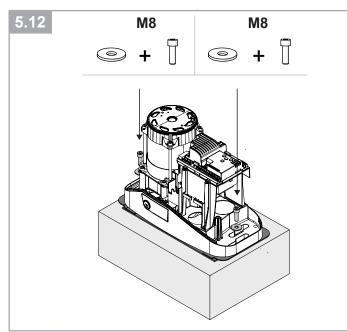
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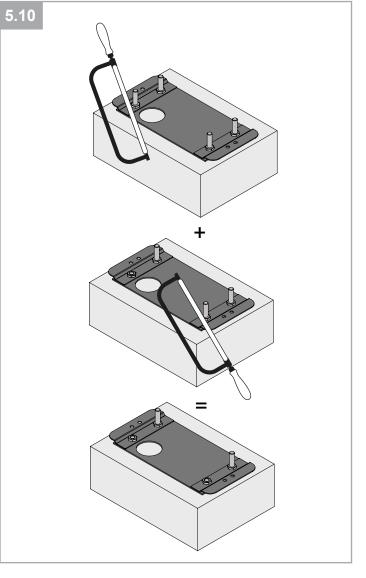
- Fig. 5 IT Retrofit TURBO S su FAAC 746 con pignone Z16 \* EN TURBO S retrofit with FAAC 746 with Z16 pinion \* FR Retrofit TURBO S sur FAAC 746 avec pignon Z16 \* ES Retrofit TURBO S en FAAC 746 con piñón Z16 \*
- DE Retrofit TURBO S auf FAAC 746 mit Ritzel Z16 \*
- PT Retrofit TURBO S em FAAC 746 com roda dentada Z16 \* PL Zastąpienie TURBO S na FAAC 746 z zębatką Z16 \*

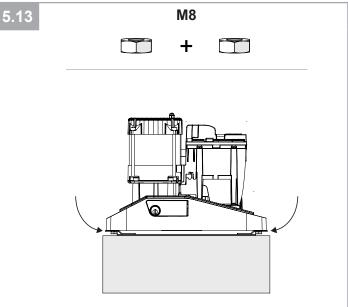






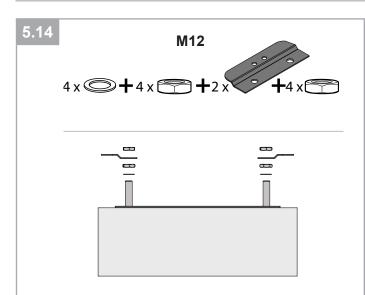
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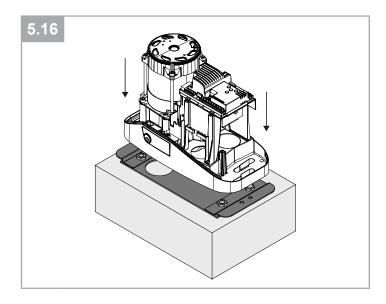


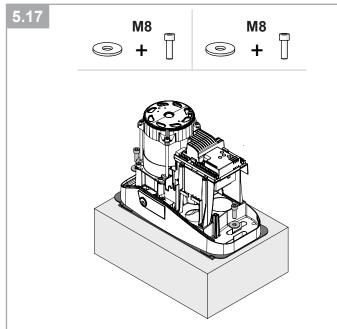


- \* Las marcas mencionadas no son propiedad de KEY AUTOMATION \* As marcas mencionadas não são propriedade da KEY AUTOMATION \* Wymienione marki nie są własnością KEY AUTOMATION

- Fig. 5 IT Retrofit TURBO S su FAAC 746 con pignone Z20 \* EN TURBO S retrofit with FAAC 746 with Z20 pinion \* FR Retrofit TURBO S sur FAAC 746 avec pignon Z20 \* ES - Retrofit TURBO S en FAAC 746 con piñón Z20 \*
- DE Retrofit TURBO S auf FAAC 746 mit Ritzel Z20 \* PT Retrofit TURBO S em FAAC 746 com roda dentada Z20 \* PL Zastąpienie TURBO S na FAAC 746 z zębatką Z20 \*

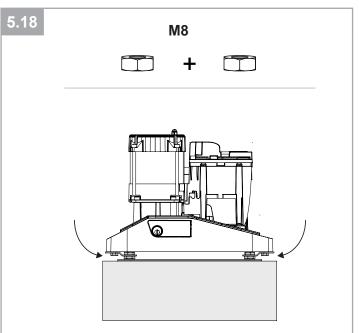






- \* I marchi citati non sono di proprietà di KEY AUTOMATION
  \* The brands mentioned are not owned by KEY AUTOMATION
  \* Les marques mentionnées ne sont pas la propriété de KEY AUTOMATION
  \* Die genannten Marken gehören nicht zu KEY AUTOMATION

5.15 +

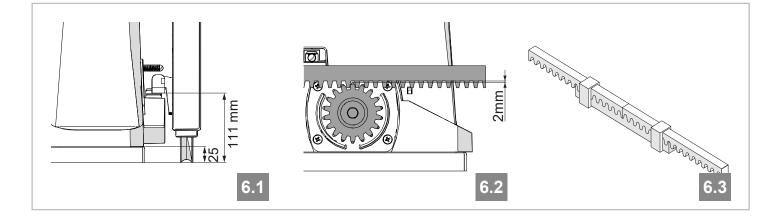


\* Las marcas mencionadas no son propiedad de KEY AUTOMATION

- \* As marcas mencionadas não são propriedade da KEY AUTOMATION \* Wymienione marki nie są własnością KEY AUTOMATION

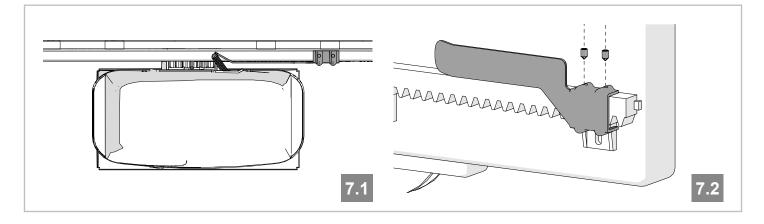
Fig. 6 IT - Fissaggio cremagliera EN - Rack assembling FR - Pose de la crémaillère ES - Fijacion de la cremallera

- DE Montage der zahnstange PT - Fixação da cremalheira
- PL Montowanie listwy



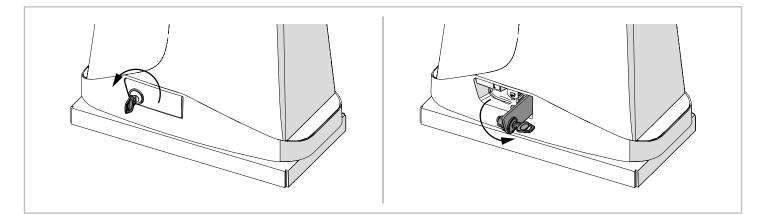
- Fig. 7 IT Fissaggio finecorsa
- EN Limit switch fixing FR Fixation des dispositifs de fin de course ES Fijación del fin de carrera

- DE Befestigung der anschläge
- PT Fixação dos fins de curso
- PL Mocowanie wyłącznika krańcowego



- Fig. 8 IT Sblocco di emergenza EN Emergency unblocking FR Déverrouillage d'urgence
  - - ES Desbloqueo de emergencia

- DE Notfallfreigabe PT Desbloqueio de emergência PL Odblokowanie awaryjne



## **CE DECLARATION OF CONFORMITY**

## DICHIARAZIONE DI INCORPORAZIONE DI QUASI - MACCHINA DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

Il sottoscritto Nicola Michelin, Amministratore Delegato dell'azienda The undersigned Nicola Michelin, General Manager of the company

Key Automation s.r.l., via Meucci 23, 30027 San Donà di Piave (VE) - ITALIA

dichiara che il prodotto tipo: declares that the product type:

#### TURBO S

Motoriduttore elettromeccanico irreversibile per cancelli scorrevoli da 400kg a 1600kg Electromechanical irreversible gear motor for sliding gates from 400kg to 1600kg

Models:

Models:

# TUS62, TUS62M, TUS92, TUS92M, TUS122, TUS122M, TUS162, TUS4324, TUS7324, TUS7324M, TUS11324, TUS11324M

E' conforme a quanto previsto dalle seguenti direttive comunitarie: *Complies with the following community (EC) regulations:* 

Direttiva macchine / Machinery Directive 2006/42/EC Direttiva compatibilità elettromagnetica / EMC Directive 2014/30/EU Direttiva bassa tensione / Low voltage Directive 2014/35/EU Direttiva radiofrequenza / RED Directive 2014/53/EU Direttiva RoHS / RoHS Directive 2011/65/EU

Secondo quanto previsto dalle seguenti norme armonizzate: In accordance with the following harmonized standards regulations:

> ETSI EN 301489-3:2023, ETSI EN 301489-1:2019 ETSI EN 300 220-1 V3.1.1, ETSI EN 300 220-2 V3.2.1 EN 62233:2008 EN 60335-1:2012 + A1 + A11, EN 60335-2-103:2015 EN 61000-3-2:2014, EN 61000-3-3:2013 EN 61000-6-2:2016, EN 61000-6-4:2006 + A1:2010 EN ISO 13849-1:2015, EN ISO 13849-2:2012 EN 12453:2017 + A1:2021

Dichiara che la documentazione tecnica pertinente al prodotto è stata redatta conformemente a quanto previsto dalla direttiva 2006/42/CE Allegato VII parte A e verrà fornita a fronte di una richiesta adeguatamente motivata dalle autorità nazionali. Declares that the technical documentation is compiled in accordance with the directive 2006/42/EC Annex VII part B and will be transmitted in response to a reasoned request by the national authorities.

Dichiara altresì che non è consentita la messa in servizio del prodotto finchè la macchina, in cui il prodotto è incorporato, non sia stata dichiarata conforme alla direttiva 2006/42/CE.

He also declares that is not allowed to use the above mentioned product until the machine, in which this product is incorporated, has been identified and declared in conformity with the regulation 2006/42/EC.

San Donà di Piave (VE), 05/03/24

Amministratore Delegato General Manager Nicola Michelin

1:06

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