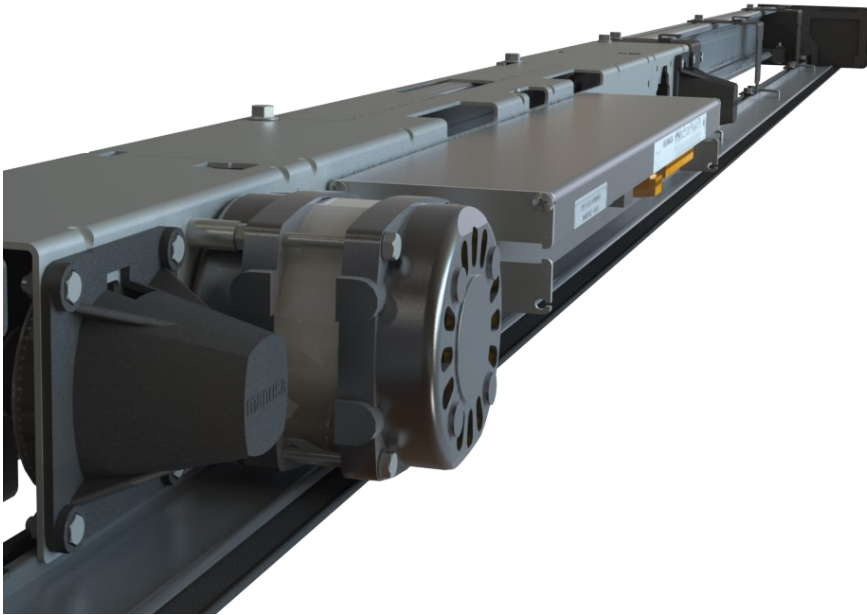


Installation Manual  
**VISIO 100**



manussa

# INSTALLATION MANUAL

## VISIO 100

### 0. CONTENTS

#### 1. PRODUCT IDENTIFICATION

- 1.1 Symbol Description
- 1.2 Product Marking
- 1.3 Legend of the Necessary Tools Required for Assembly
- 1.4 Placement. Physical and Environmental Requirements
- 1.5 Placement. Electrical Pre-wiring Requirements.
- 1.6 Training Requirements for Technicians

#### 2. OPERATOR ASSEMBLY

- 2.1 Cut Formula Table
- 2.2 Main Profile
- 2.3 Trolleys
- 2.4 End Stops
- 2.5 Sliding Typology Motor Group
- 2.6 Bi-Parting Typology Motor Group
- 2.7 Main Cover
- 2.8 Lock Accessory (optional)

#### 3. ON-SITE INSTALLATION

#### 4. APPENDIXES

- 4.1 EC Declaration of Conformity

## 1. DEFINITIONS AND PREREQUISITES




This manual contains instructions for the safe and correct installation of the product. Please read it carefully and keep it in a safe place for future reference. When in doubt, please contact the Service Centre (see back of manual).

For your own safety, please observe at all times the technical instructions described in this manual. **manusa** will not be held responsible for any damages and faults caused as a result of not adhering to these instructions.

The information included in this manual is supplemented by the information in the manual for the Visio operator (Document ref. DUSI01). Please refer to both documents simultaneously.






### 1.1 Symbol Description

The symbols that appear in this manual and/or on the machine are listed below:


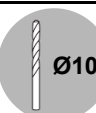


	ELECTRICAL HAZARD. No work must be performed inside the machine unless it has been previously disconnected from the power supply.
	GENERAL DANGER. Improper use may cause injuries to people and damage the machine.
	IMPORTANT WARNING. Strictly adhere to the indications provided with this symbol.




### 1.2 Product Marking

The product should include a marking similar to the one displayed. Should this not be the case, please report it to the Service Centre (see back of manual).

Fabricante/Manufacturer: Manusa Door systems		
País/Country: España		
Año fabricación/Manufacturing year: 2013		P/N: A00525
Modelo/Model: Visio		R: 000 S/N: 12345678
Tensión/Voltage: 220-240V/50-60Hz		
Potencia/Power: 265W		
		
Carga máxima: Mas. total weight: 2200N	Microp. Vers. T.24h: 312 15 180	

### 1.3 Legend of the Necessary Tools Required for Assembly

	Open-end wrenches 8, 10; 13
	Bits Ø10, Ø11
	Phillips screw driver
	Allen key 3,4

	Tape measure
	Saw
	Drill


## 1.4 Placement. Physical and Environmental Requirements.

**manusa** automatic doors must be installed in locations that meet the following conditions:

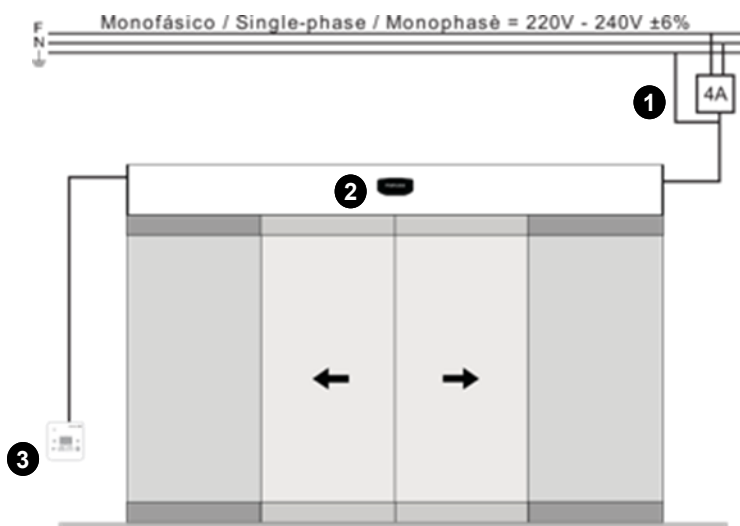
- Smooth, even and levelled floors.
- Stable walls with sufficient load capacity.
- Levelled partitioning.
- Absence of vibrations and impacts on the door area.
- Service temperature: -15°C to +50°C.
- Relative air humidity: the electric and electronic components of operators manufactured to work in tropical climates receive a surface treatment that protects them from air humidity.

## 1.5 Placement. Pre-wiring Requirements.

For the assembly of **manusa** power-operated doors, a pre-wiring electrical system with the following elements must be in place:

 The diagram shows the standard wiring for the elements that the operator includes as standard.

- 1** Power input:
  - 16mm corrugated tube.
  - Cables 3x1.5mm<sup>2</sup> (Phase, Neutral, Earth)
  - Two-pole circuit breaker, min. 4A
- 2** Sensors:
  - Cables supplied with the accessory.
- 3** Selector
  - 16mm corrugated tube.
  - Shielded cable 4x0.25mm<sup>2</sup>





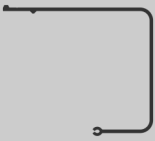




## 1.6 Training Requirements for Technicians

The installation of all **manusa** products, as well as any tasks related to maintenance, setting, adjustment, etc. Must be performed by technical personnel authorised by **manusa**. These are the main objectives of the training process for all authorised installation technicians:

- To know how to use the handling and lifting equipment.
- To be able to correctly handle loads.
- To learn how to use individual protection equipment.
- To be able to apply the recommendations of the Low Voltage Regulations.
- To have deep technical knowledge of all **manusa** products.
- To be familiar with the reference and application guidelines for **manusa** products and services.

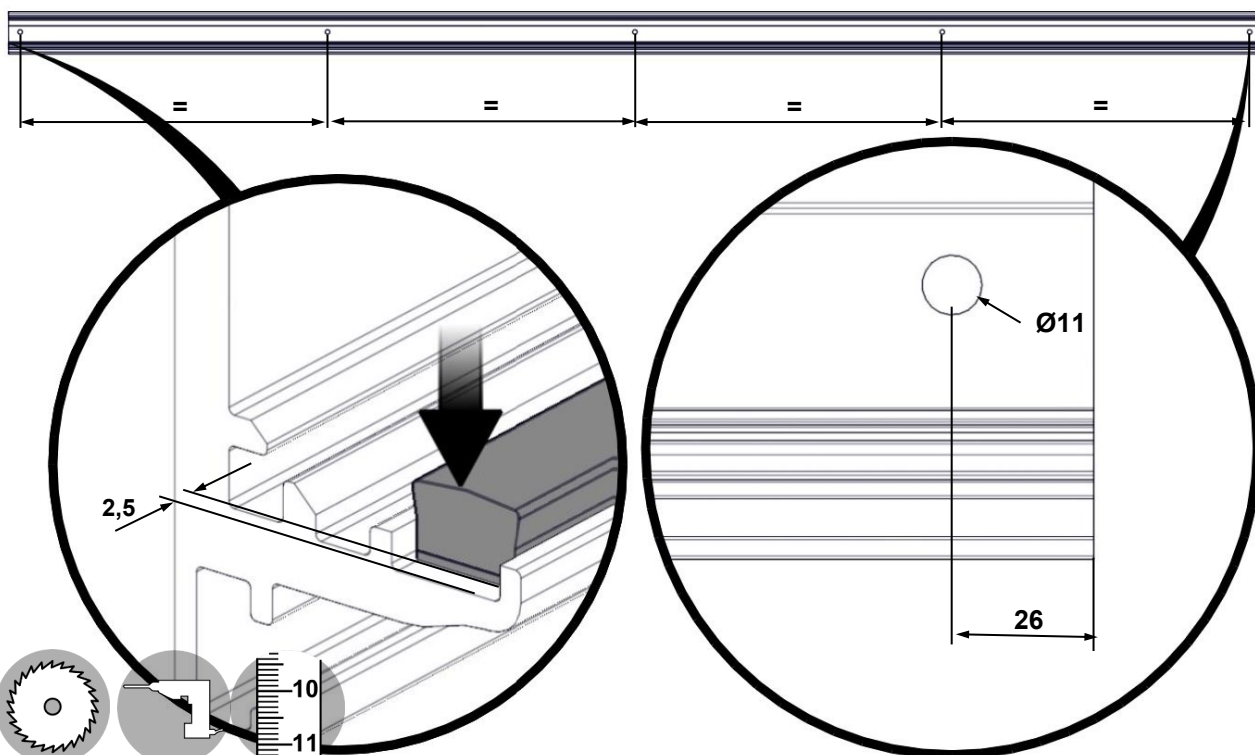
## 2. OPERATOR ASSEMBLY

## 2.1 Cut Formula Table

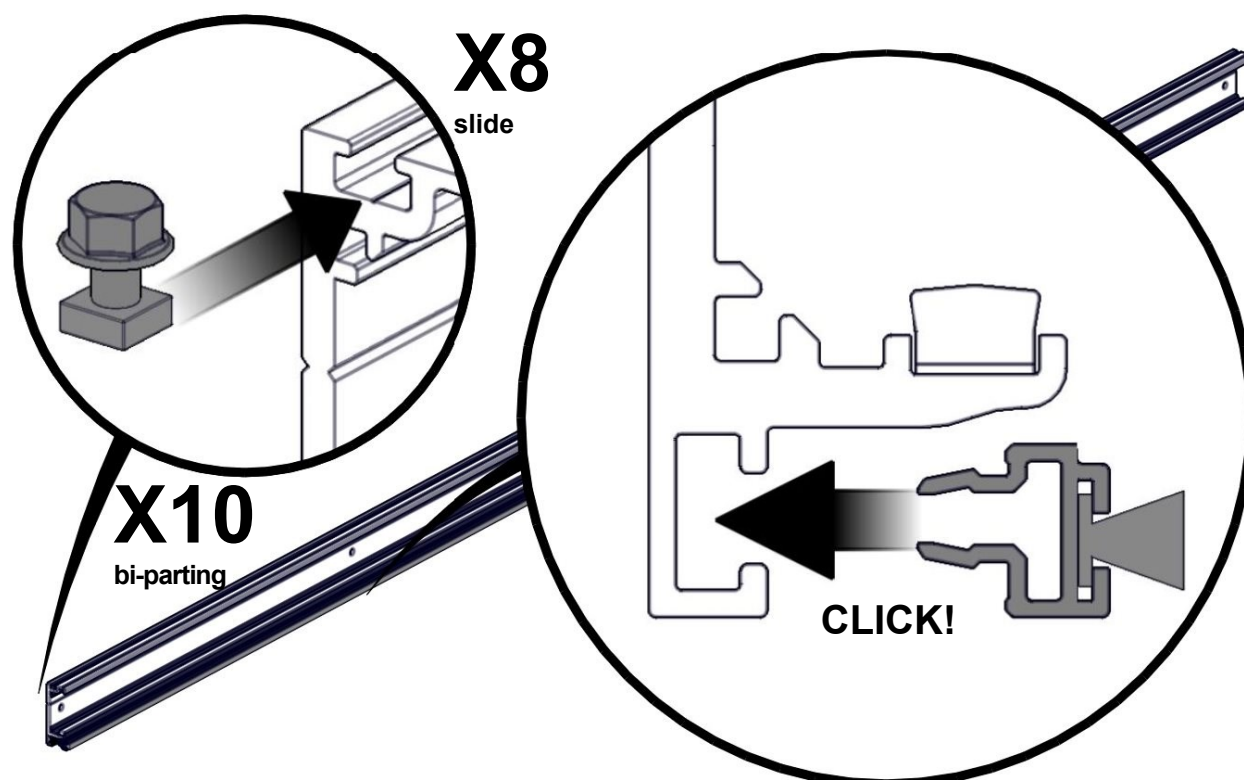
STILE	SIDE		MEETING	
	With fixed leaves	No fixed leaves	With fixed leaves	No fixed leaves
	Lop - 8			
	Lop - 13			
	Lop - 8			
	Lop - 8			
	Lop - 8			
	PL+50	Lop	PL+100	Lop
	PL+50	Lop	PL+100	Lop

## 2.2 Main Profile

- 2.2A** Cut the main profile and the track according to the cut table. Drill holes on the main profile and adhere the track removing the protective film.

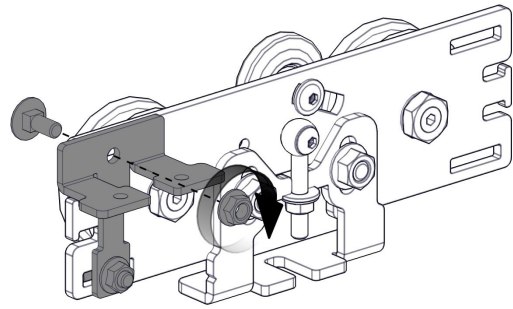
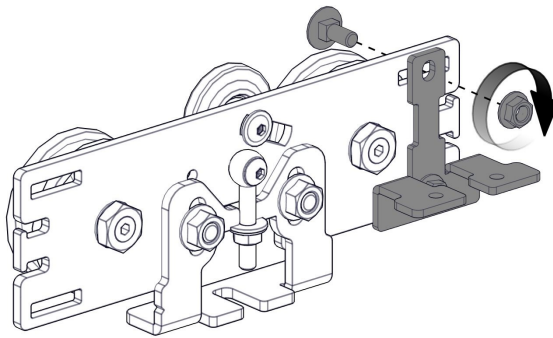
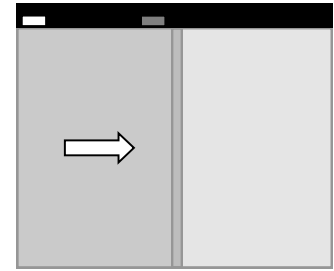
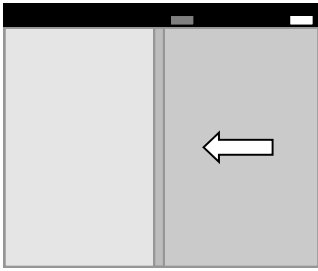


- 2.2B** Insert square nuts with screws into the main profile slot in order to attach the motor group and the brackets. Cut and assemble the wool pile strip and the clear width stile.

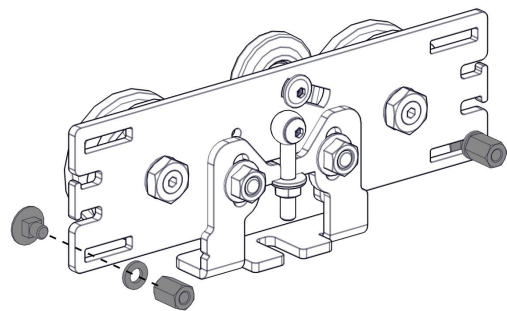
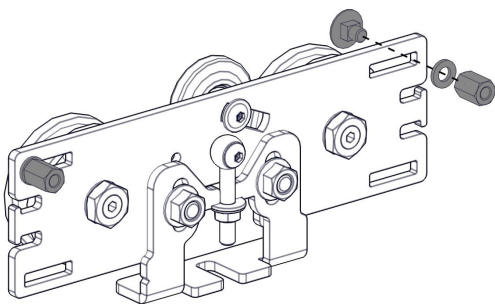
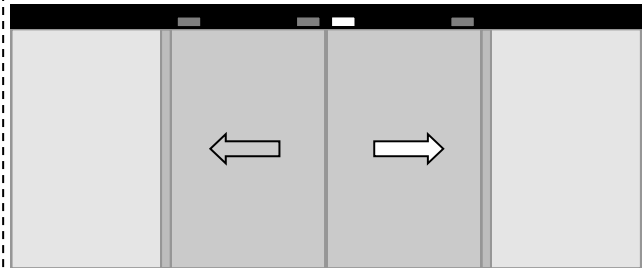
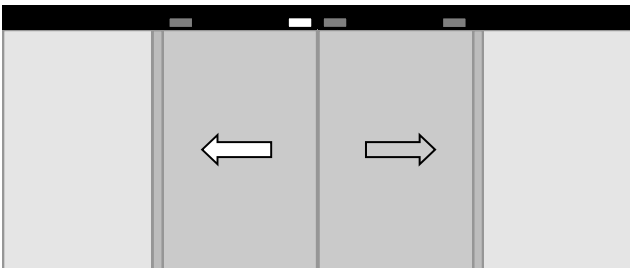


## 2.3 Trolleys

**2.3A** Sliding typology: assemble the dragging arm on the trolleys according to the opening of the operator.

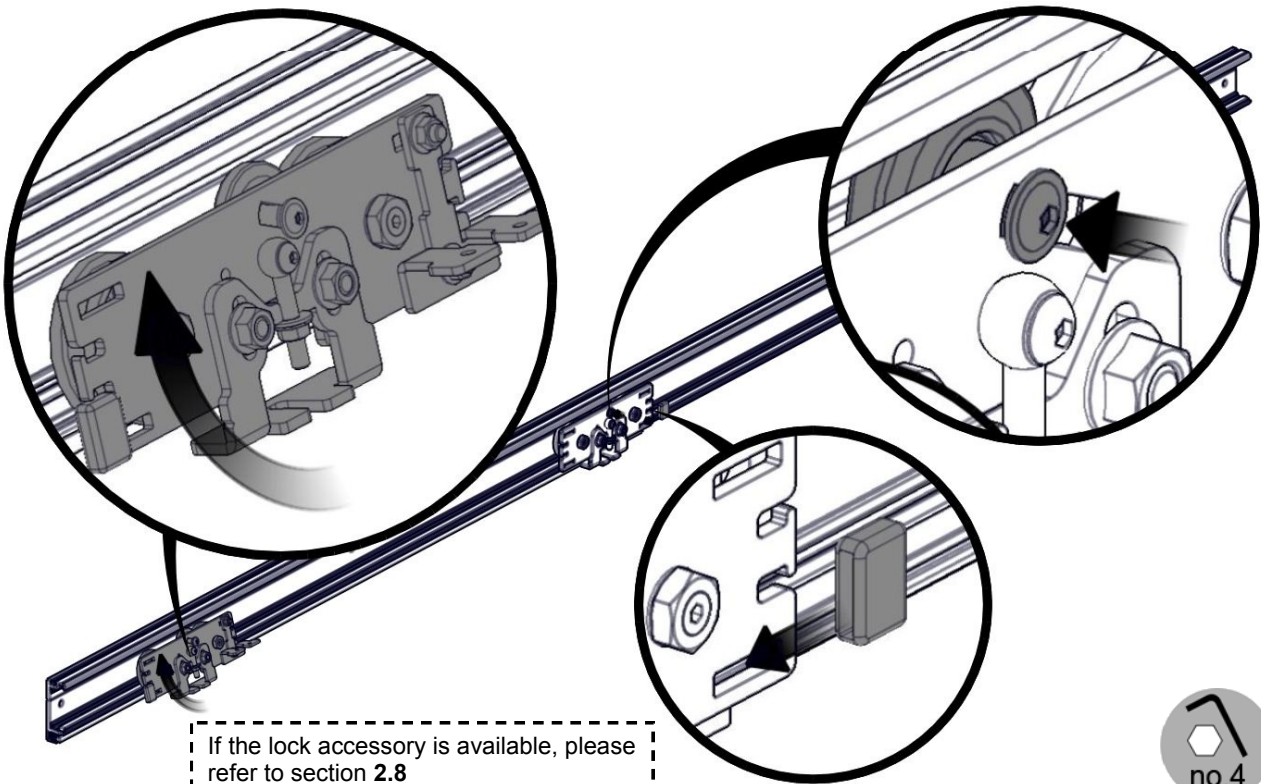


**2.3B** Bi-parting typology: assemble the dragging arm joining screws on the trolleys according to the opening of the leaf.



**2.3 C**

Place the trolleys over the main profile. Previously, place the rubber stops on the ends of both external trolleys. Finally, adjust the anti-roll wheel towards the upper part.



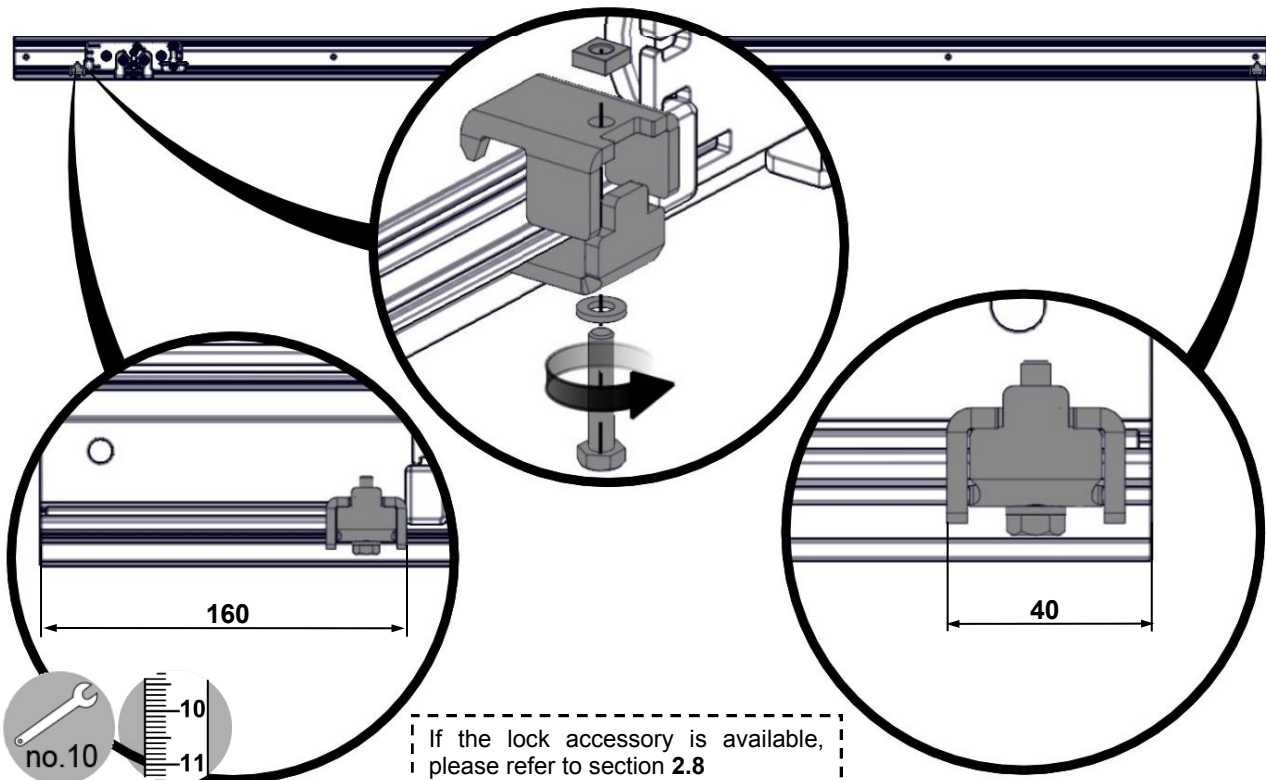
If the lock accessory is available, please refer to section 2.8

no.4

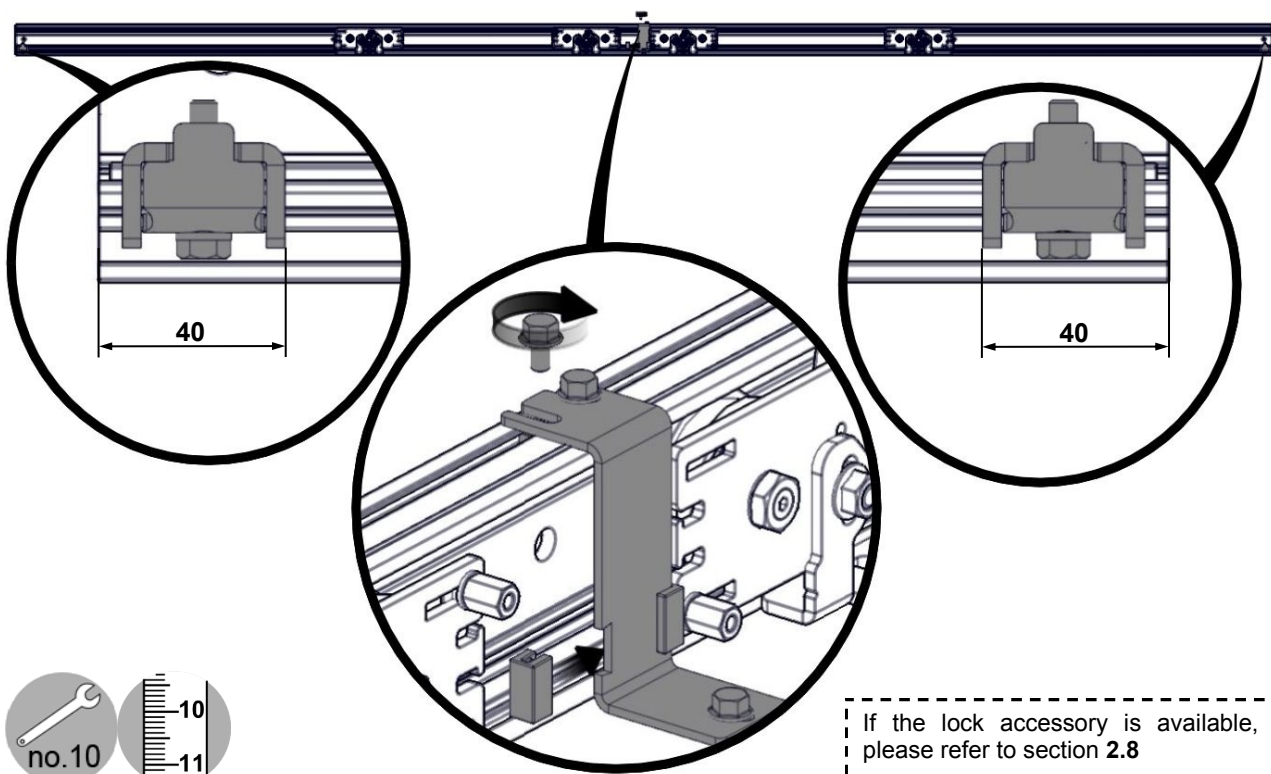


## 2.4 End Stops

**2.4A** Sliding typology: place the stops on the ends of the operator as per the measurements.

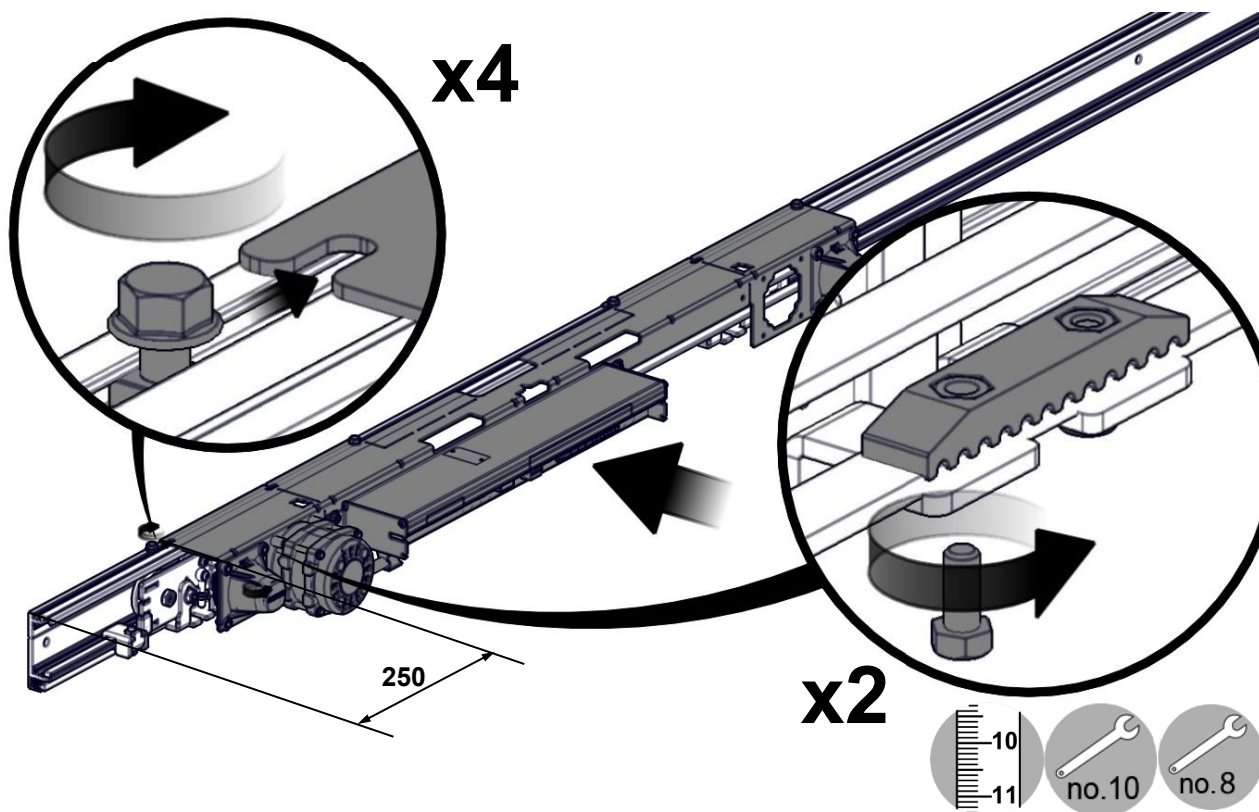


**2.4B** Bi-parting typology: attach the central stop, centring it on the main profile. Then, place the side stops on the ends as per the measurements.

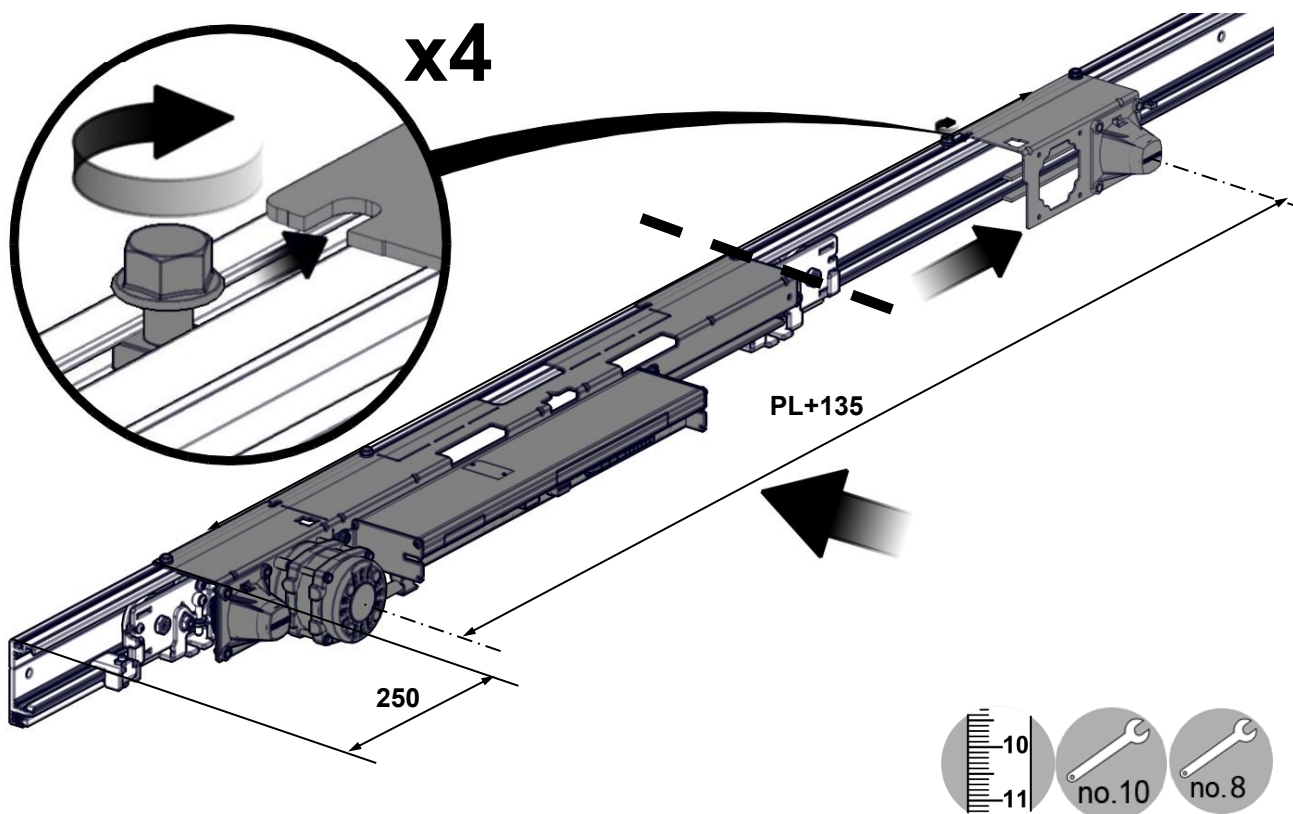


## 2.5 Sliding Typology Motor Group

- 2.5 A** For  $PL < 1000\text{mm}$ , attach the motor group to the main profile. Join the belt to the piece of the trolley which we had previously assembled with the belt straps.

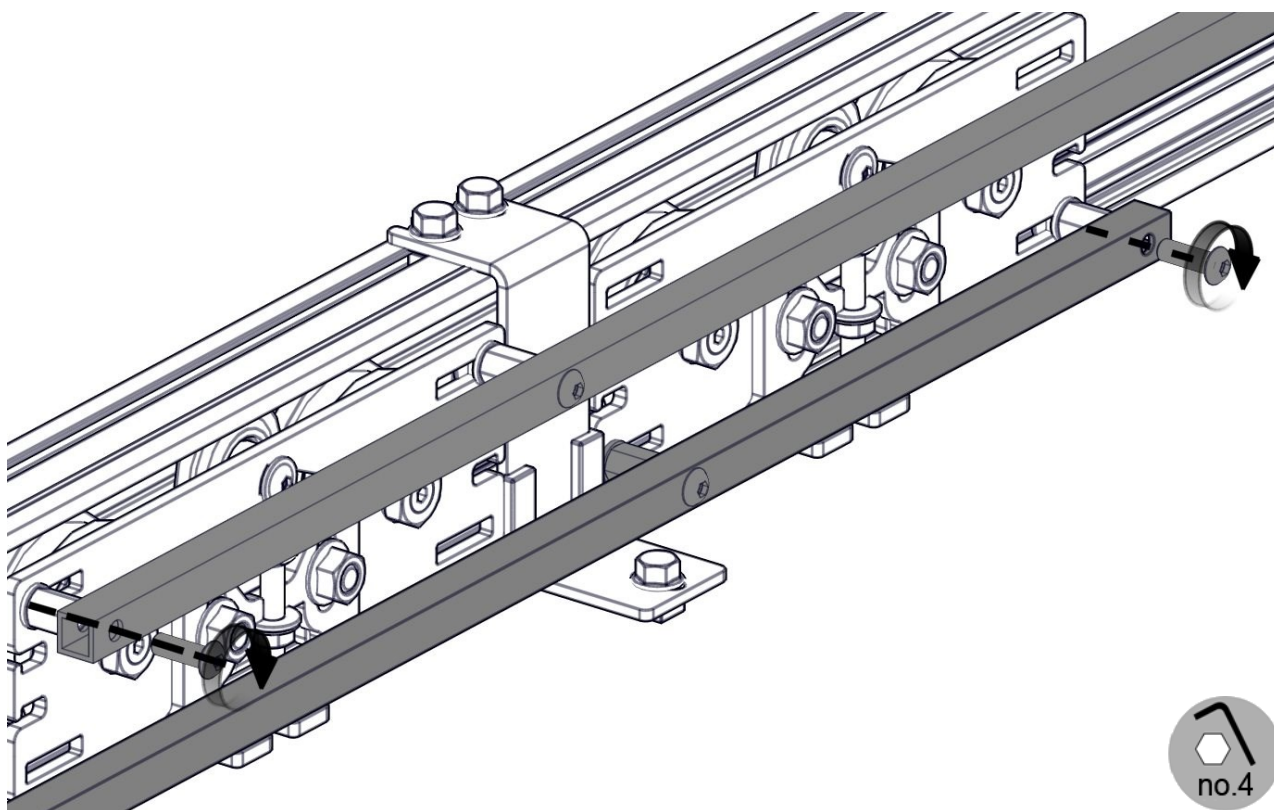


- 2.5 B** For  $PL > 1000\text{mm}$ , always cut the group following the dotted line and detach the return system at the given measurement, Attach the belt to the trolley as described above. Move the return system to tighten the belt.

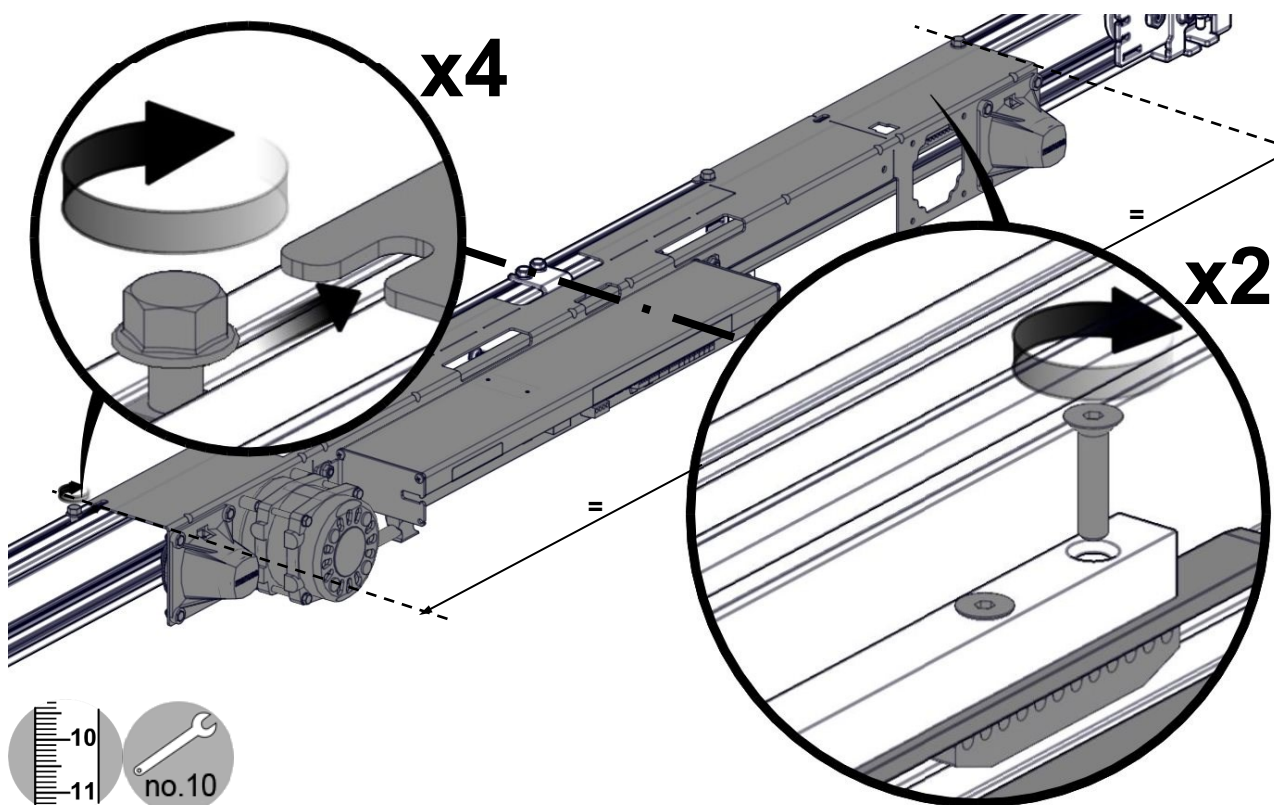


## 2.6 Bi-Parting Typology Motor Group

**2.6 A** Assemble the arms on the trolleys, on the spacers that we had previously placed.



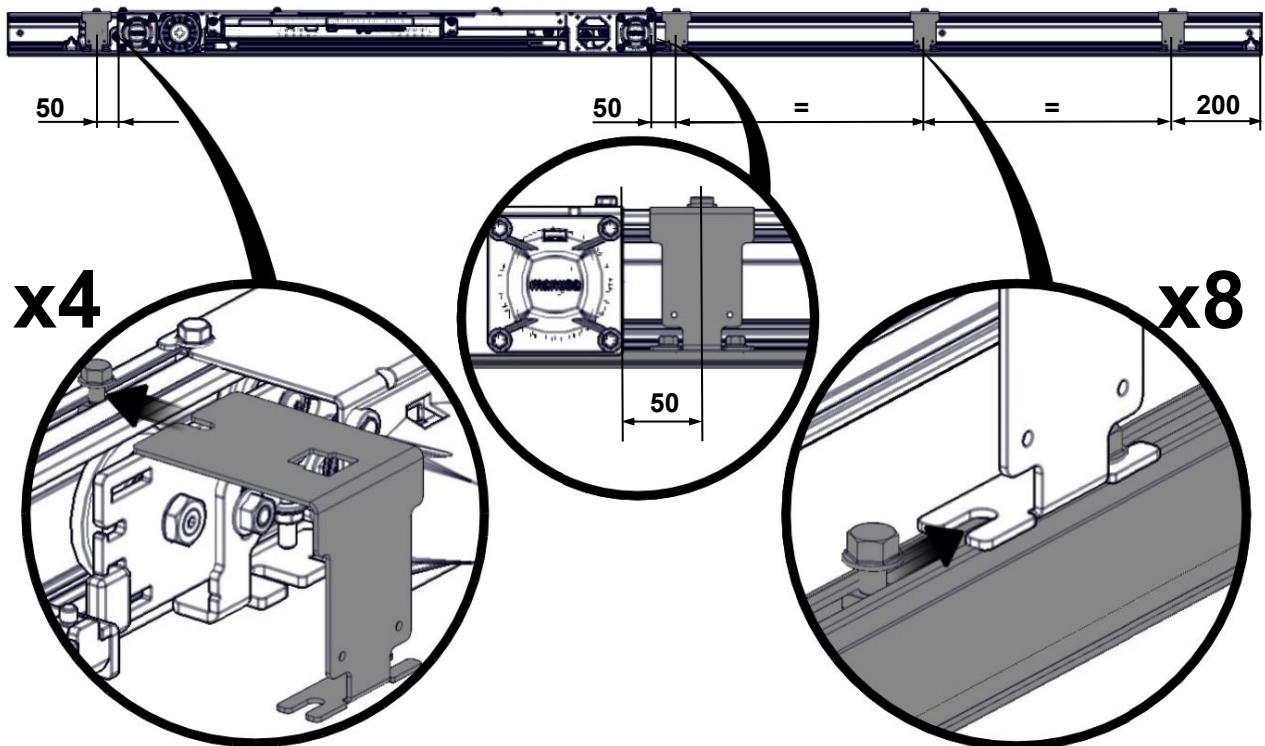
**2.6 B** Centre the motor group and attach it to the main profile. Attach the arms to the motor group belt.



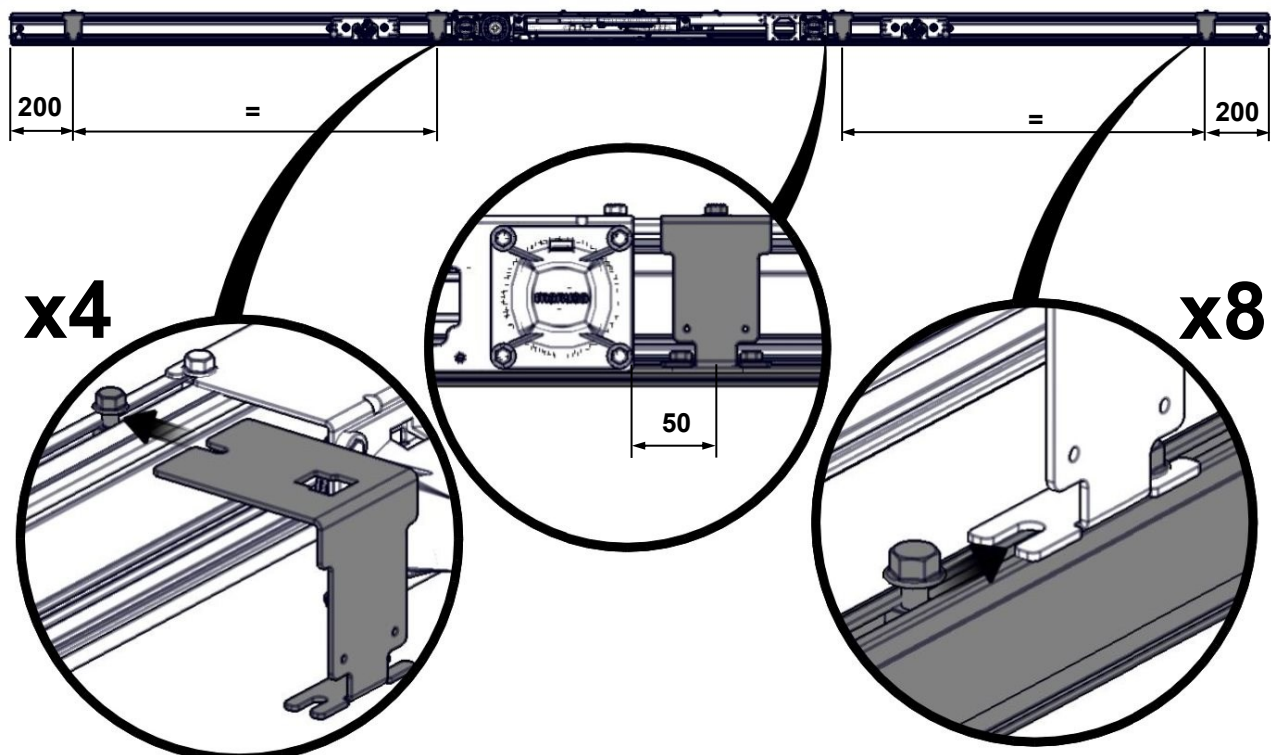


## 2.7 Main Cover

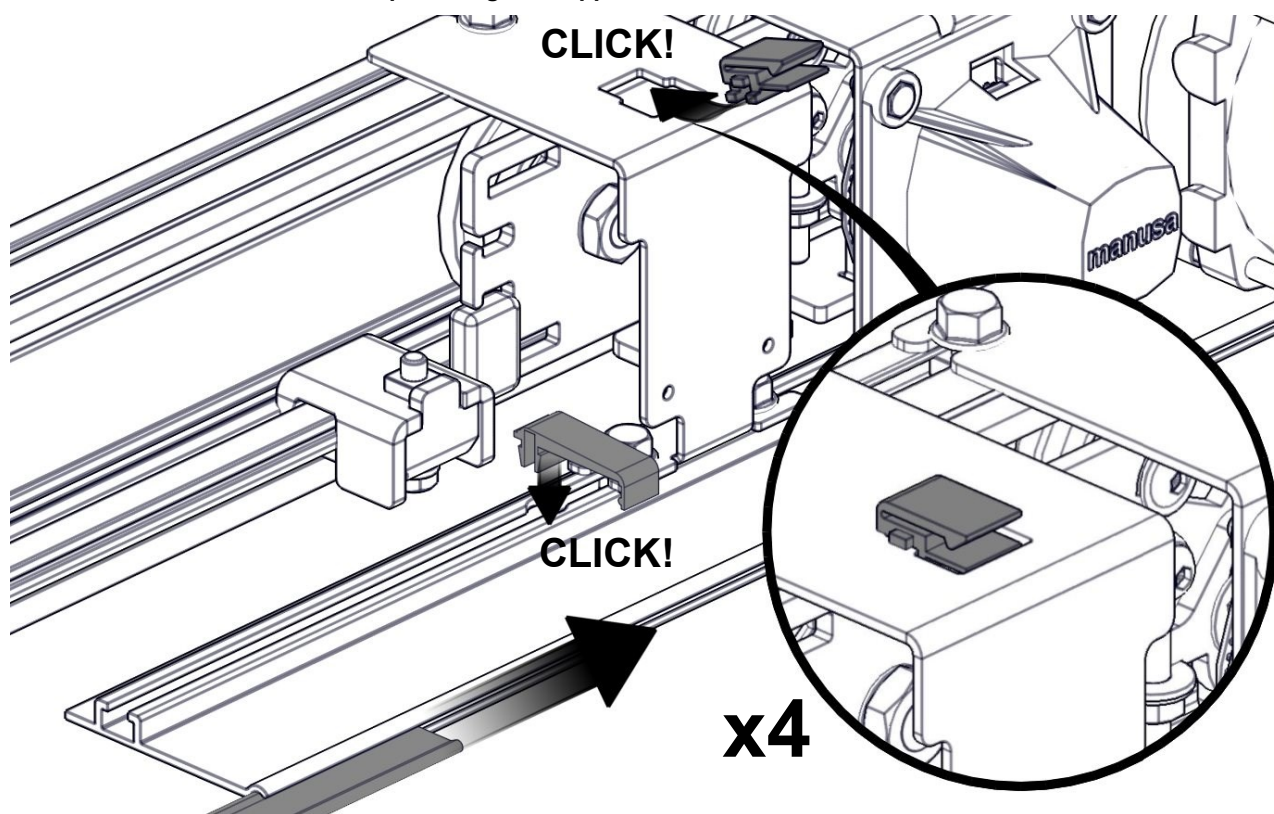
- 2.7A** Sliding typology: attach the four brackets as per the given measurements using the nuts and screws which we had previously inserted (2.2B). Cut the lower stile as per the table and attach it to the brackets.



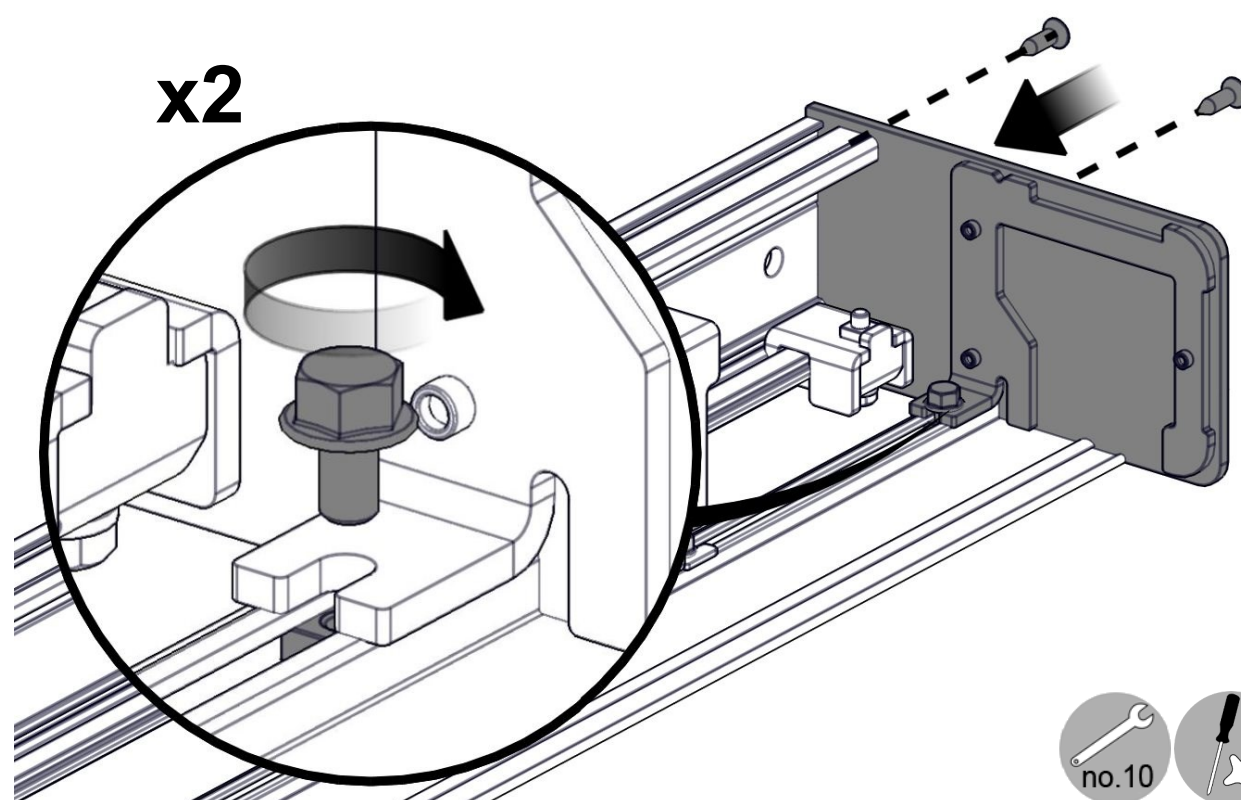
- 2.7B** Bi-parting typology: attach the four brackets as per the given measurements using the nuts and screws which we had previously inserted (2.2B). Cut the lower stile as per the table and attach it to the brackets.



- 2.7C** Insert the rubber sealing through the lower stile. Then, attach the wiring clips 50mm from the side of the brackets. Insert the cover clips through the upper slot.

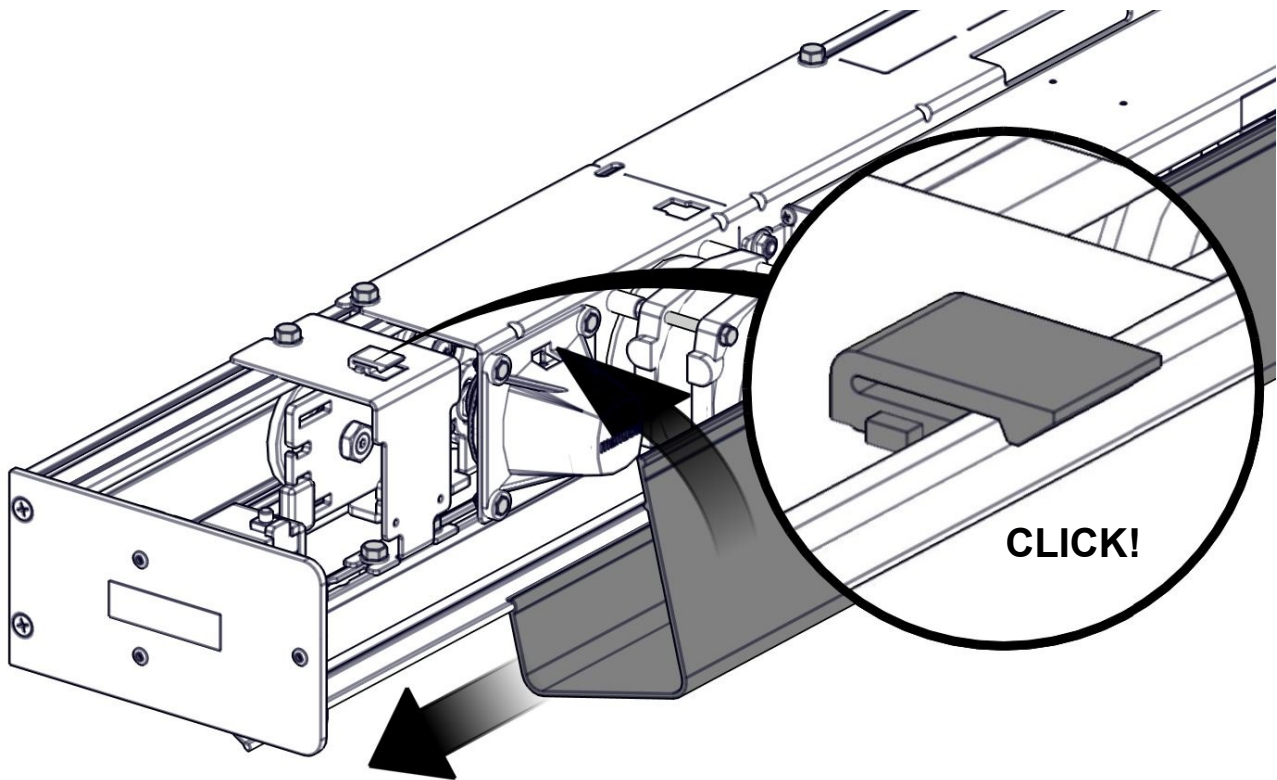


- 2.7D** Assemble the side caps on the main profile and cover.



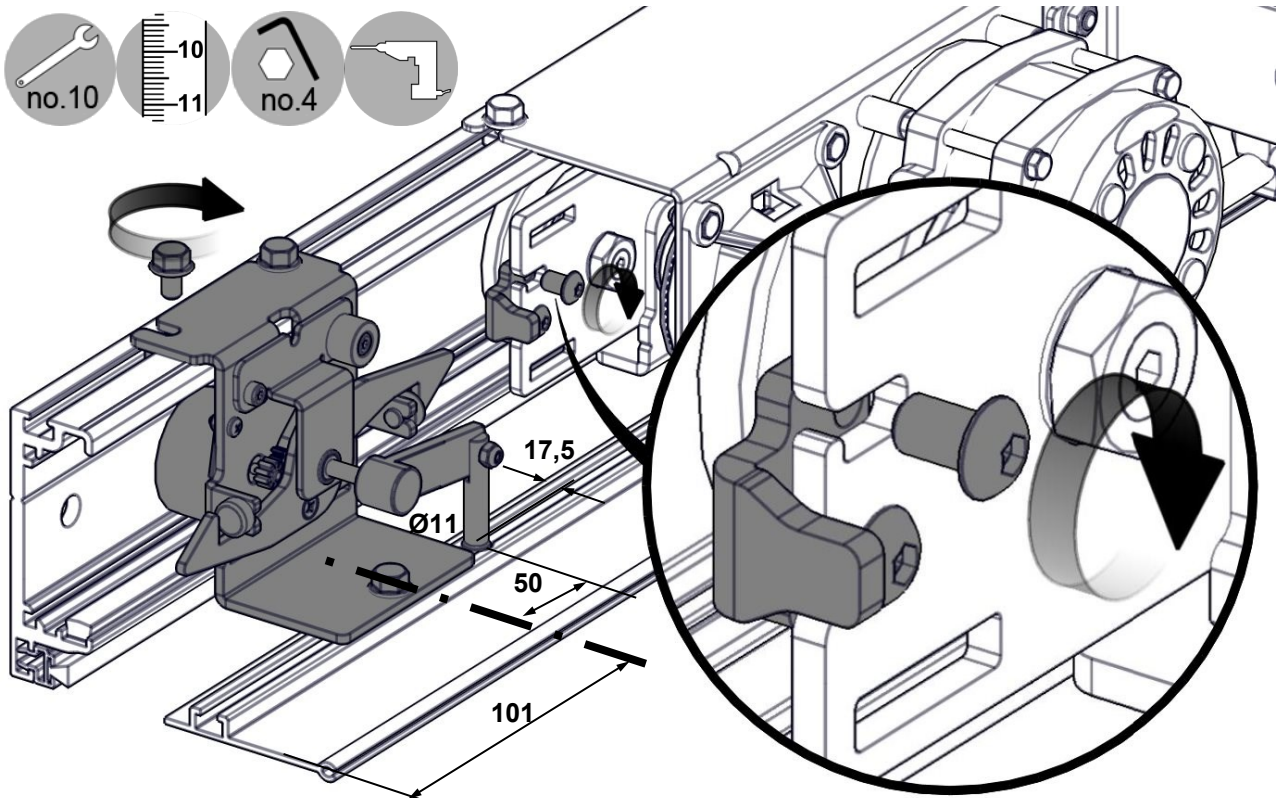


- 2.7 E** Place the front cover stile sliding it through the rubber sealing, and close it ensuring that it is fully attached with the clips.



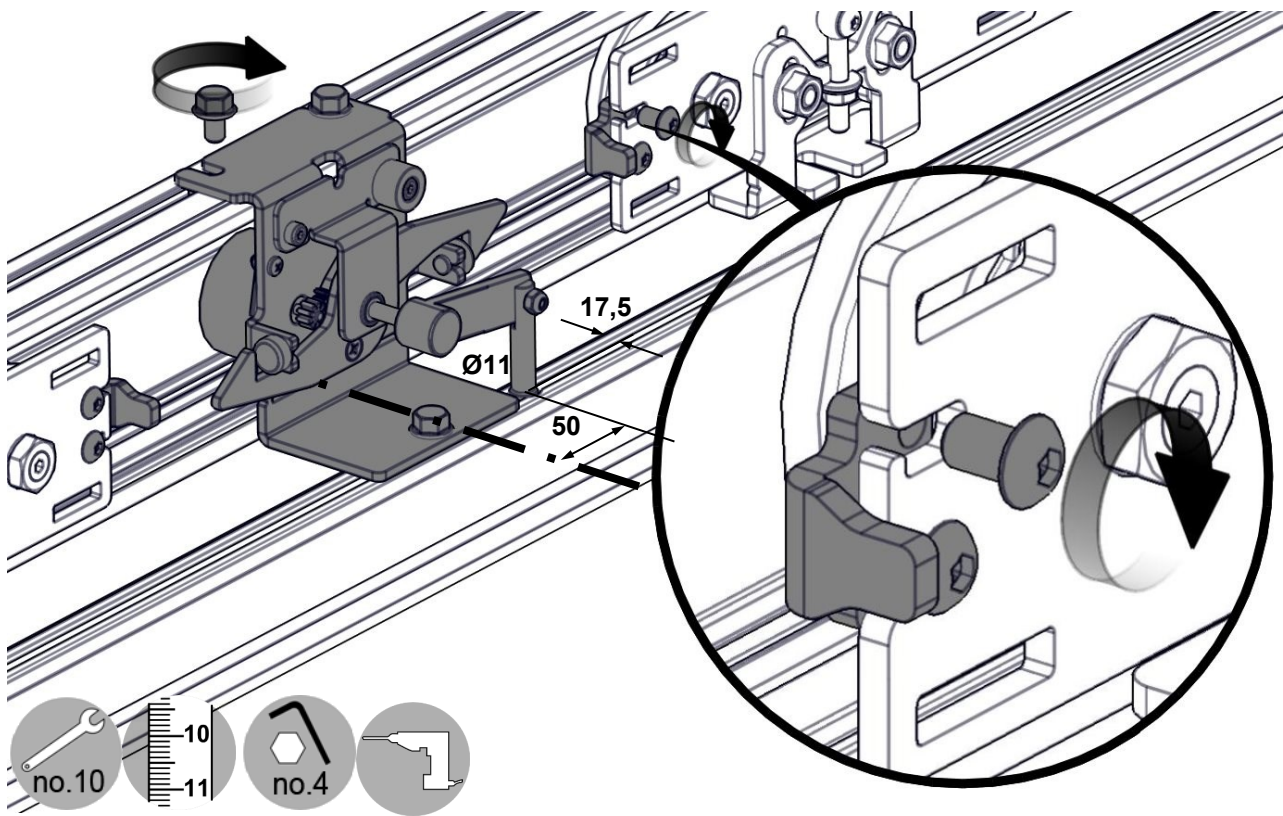
## 2.8 Lock Accessory (optional)

- 2.8 A** Sliding Typology: replace the side end with the lock as per the given measurement. Assemble the coupling and drill a  $\varnothing 11$  hole on the lower cover for the exit of the manual release, as per the given measurements.



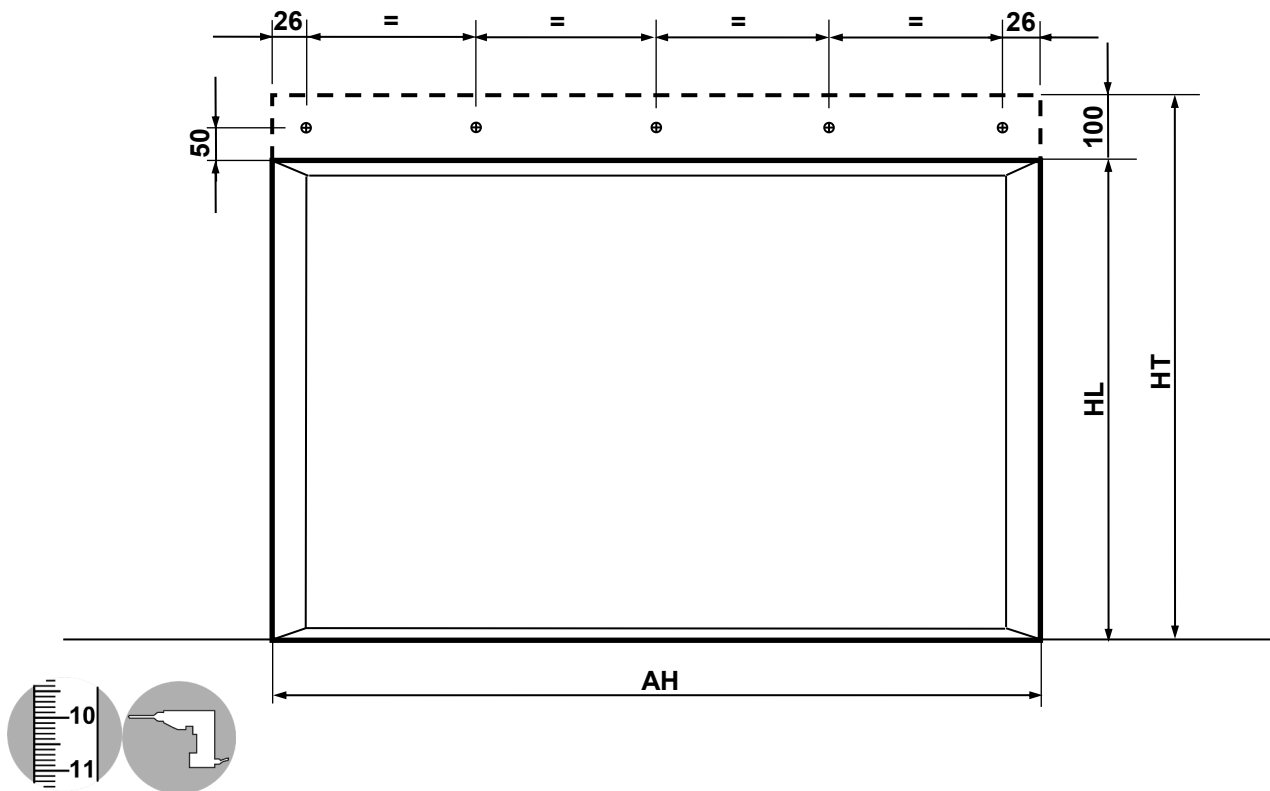
2.8 B

Bi-parting typology: replace the stop of the central trolleys with the lock in the centre of the main profile. Assemble the couplings and drill a  $\varnothing 11$  hole on the lower cover for the exit of the manual release.



**3. ON-SITE INSTALLATION**

**A** Arrangement for assembling the operator according to the dimensions given.





## 4. ANNEXES

## 4.1 CE Declaration of Conformity



## CE DECLARATION OF CONFORMITY

**Manufacturer: MANUSA DOOR SYSTEMS**

**Address:** Av. Vía Augusta, 85-87, 6<sup>th</sup> Floor  
08174 – Sant Cugat del Vallès  
Barcelona, Spain  
Tel 902 321 400  
Fax 902 321 450  
www.manusa.com



**Product:** Operator Visio. Operator powered pedestrian doors.

**Models:** Visio  
Visio Hermético  
Visio 100

We herein declare, under our sole responsibility, that the products listed and referenced comply with the following European Directives:

<b>2006/42/CE</b>	Machinery Directive
<b>305/2011/CE</b>	Construction Products Regulation
<b>2004/108/CE</b>	Electromagnetic Compatibility Directive
<b>2006/95/CE</b>	Low Voltage Directive

It has also implemented the following harmonised standards and technical specifications:

**Technical Building Code.** Basic Document SUA. Operation Safety and Accessibility  
**Technical Building Code.** Basic Document SI. Fire Safety  
**Technical Building Code.** Basic Document HR. Noise Protection  
**Technical Building Code.** Basic Document SE. Structural Safety.  
**UNE-EN 16005**  
**UNE 85121**  
**UNE-EN 60335-1**  
**IEC 60335-2-103**  
**UNE-EN 61000-3-2/3-3/6-2/6-3**  
**UNE-EN ISO 13849-1/2**  
**UNE EN ISO 12100-1/2**  
**UNE-EN ISO 13857**  
**UNE-EN ISO 14121-1/2**  
**UNE-EN 1037**

The CE marking is included in the product to indicate conformity with the essential requirements of the applicable directives. This declaration of conformity means that the machine installation and start-up has been made in accordance with the assembly, operation and maintenance instructions from the manufacturer.

Josep Mª Guilera  
General Manager  
Sant Cugat del Vallès, December 2013

Francesca Martínez  
Product Standardization

**NOTA:** The characteristics indicated in this manual are purely informative and are in no way binding.

The manufacturer reserves the right to make modifications without prior notice.

*Last updated: February 2014*

**manusa** 

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