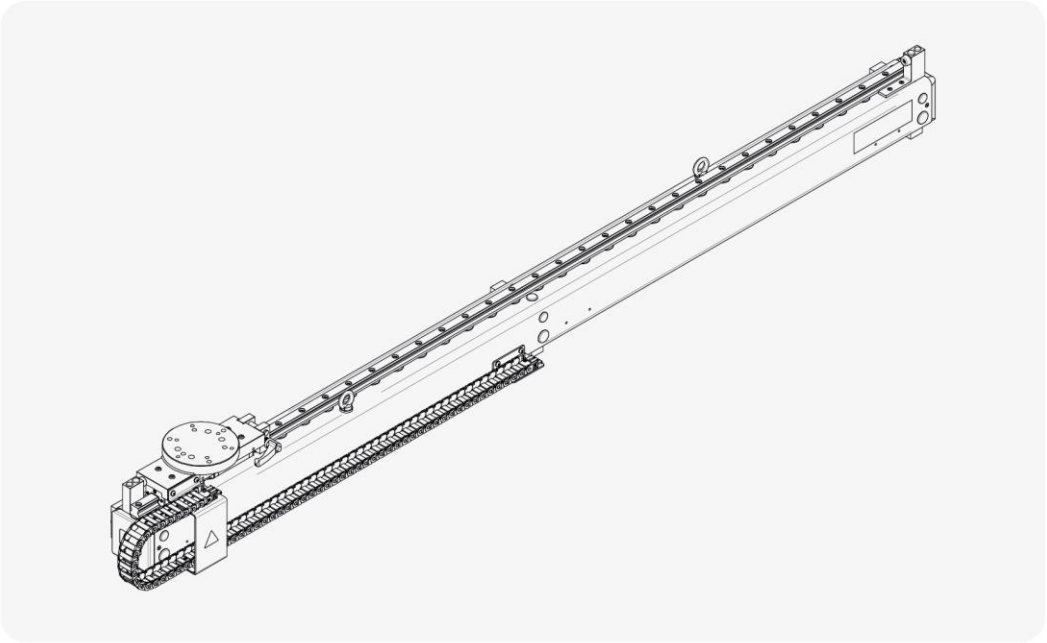
INSTRUCTION MANUAL

LINEAR GUIDE

3arm®
Handling emotions

ROSCAMAT®



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ISO 9001
BUREAU VERITAS
Certification

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DESIGN QUALITY
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2 ABOUT THIS MANUAL

This document corresponds to the linear guide instruction manual.

-ORIGINAL MANUAL-

Intellectual/Industrial Property Information

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2.1 CONSIDERATIONS

- ✓ Before using the equipment, be sure to read this instruction manual and follow the instructions for use and safety correctly.
- ✓ All the instructions listed in this manual refer to the individual equipment. It is the end user's responsibility to analyse and apply all the necessary safety measures required for the end use.
- ✓ This manual must be kept for the entire life of the equipment, in a place close to the equipment for future consultations.
- ✓ If any part of this manual is unclear, confusing or inaccurate, please contact your 3arm® and/or Roscamat® distributor.
- ✓ The content of this manual may be subject to change without prior notice.
- ✓ If this manual deteriorates, please contact TECNOSPIRO MACHINE TOOL, S.L. to replace it.
- ✓ Reproducing or sharing this documentation – or part of it – to third parties is only permitted with express written authorisation from TECNOSPIRO MACHINE TOOL, S.L.
- ✓ The illustrations shown in this manual may differ in some details with respect to their specific configuration and should be understood as a standard representation.

✓ Paragraphs indicating assembly, adjustment, installation or maintenance steps are framed with a brown background.

✓ Paragraphs with highlighted information are framed with a grey background.

2.2 VERSION

Document	Revision date
Instruction manual	16/05/2018

3 SAFETY INFORMATION

3.1 SCOPE OF APPLICATION

This section contains very important information related to the safety of yourequipment, it is addressed to all personnel involved in any of the life phases of this equipment (transport, assembly and installation, commissioning, adjustment, learning, operation, cleaning, maintenance, fault finding/detection, dismantling/de-commissioning.

3.2 ALERTS AND GENERAL CONSIDERATIONS

- ✓ The equipment described in this document has been built in accordance with the current technological level and in accordance with the applicable technical standards in terms of safety. However, improper use, or incorrect integration, by the end user can generate risks of injuries.
- ✓ The equipment should only be used in perfect technical condition, respecting the safety regulations and under consideration of this document.
- ✓ Any breakdown that may affect safety should be corrected immediately.
- ✓ The equipment must not be modified without due authorisation from TECNOSPIRO MACHINE TOOL, S.L..
- ✓ The equipment must only be operated for its intended use. Any other use is strictly prohibited. Any use other than the use indicated is considered misuse and is prohibited. The manufacturer assumes no responsibility for any damage that may arise from it.
- ✓ The equipment has been designed for use together with 3arm® and ROSCAMAT® products, as well as 3arm® and ROSCAMAT® compatible accessories. The manufacturer assumes no responsibility for any damage that may arise from the use of the equipment for other purposes.
- ✓ It is the responsibility of the integrator, owner and/or end user to determine the suitability of the product for each use, as well as its place of installation and the specific definition of the task to be carried out with this product within the limits stated in this manual.
- ✓ Do not use it for any purpose that is not considered in this manual.
- ✓ The operator must only use the equipment after having received the instructions for its use.
- ✓ Do not exceed the maximum working load limits indicated in this manual as well as in the identification in the structure of the equipment.
- ✓ It is recommended that only one operator use the equipment at a time, any other use must be evaluated by the integrator/end user.
- ✓ The work area of the handling equipment and its surrounding area must respect safety, health and hygiene at work conditions. It is the integrator/end user's responsibility to conduct a study to guarantee safety.

- ✓ The presence of third parties in the work area of the handling equipment should be restricted as much as possible, thus avoiding any impact on safety. For any other use, an additional study of the hazards derived from this way of working must be carried out.

- ✓ It is important that the users who act as operators of this handling equipment are familiar with and sufficiently trained to use this product or similar products.

- ✓ In any case, the operator must read and understand this manual before use regardless of their knowledge, training or experience with similar equipment, especially the sections dedicated to installation, operation and safety.

- ✓ Lifting devices are subject to different regulations in each country. These regulations may not be specified in this manual.

- ✓ If you have questions about handling or maintenance procedures, please contact your 3arm® and/or Roscamat® distributor.

- ✓ Protective equipment must be used pursuant to the manufacturer's instructions for the tool attached to the arm.

3.3 EXCLUSIONS

Outside of the use of this equipment:
Operation in severe conditions (e.g. extreme environmental conditions such as freezing, high temperatures, corrosive environment, strong magnetic fields, dusty areas).

- ✓ Loads greater than the maximum working load.
- ✓ Use in areas with risk of explosion.
- ✓ Installation in outdoor areas.
- ✓ Handling of any component or functions of the equipment outside of those specified in this manual.
- ✓ Use by people with some type of disability or animals.

3.4 SYMBOLOGY AND ICONS

- ✓ Throughout this manual and in the structure of the quasi-machine, different symbols and pictograms can be observed, the meaning of which is summarised below.

	General danger symbol. It is usually accompanied by another symbol, or a more detailed description of the danger.
	Trapping hazard

3.5 INCORPORATION STATEMENT

Pursuant to the European Directive 2006\42\CE on construction of machines, the equipment is considered a quasi-machine. It can only be commissioned when the following requirements are met:

- ✓ It is integrated for a specific application.

- ✓ It is integrated with all the safety functions and protective devices necessary to be considered a machine for a specific application, pursuant to the European directive for machine construction.

- ✓ Once integrated, it complies with the requirements of the European machinery construction directive, which is proven with a conformity assessment process.

The integrator/end user must draft an EC statement of compliance pursuant to the applicable directives.

3.6 ASSEMBLY INSTRUCTIONS

The equipment, as an incomplete machine, is supplied with assembly instructions pursuant to Appendix II B of Machinery Directive 2006/42/EC.

A list of the basic requirements met according to Appendix I forms part of these assembly instructions.

It is forbidden to commission the incomplete machine while it is not assembled or integrated, with the help of other parts, in a machine that complies with the provisions of the European Machinery Directive and with the EC statement of compliance according to appendix II A.

3.7 SYSTEM INTEGRATOR

The integrator of the equipment or end user is in charge of integrating the quasi-machine in the installation, respecting all the relevant safety measures.

The integrator/end user is responsible for the following tasks:

- ✓ Location and correct installation
- ✓ Connections
- ✓ Risk assessment
- ✓ Facilities with the necessary safety and protection functions.
- ✓ Issue of the EC statement of compliance.
- ✓ Placement of the CE marking.
- ✓ Preparing the machine's service instructions.

3.8 PERSONAL PROTECTION EQUIPMENT (PPE)

The personal protection equipment for this equipment is just safety footwear and protective gloves for the assembly, installation and dismantling phases.

It is the integrator/end user's responsibility to define the personal protection equipment derived from the final application of the equipment, in order to comply with the essential health, safety and hygiene requirements.

Operators should not wear loose clothing, rings or bracelets that may fall within the mechanism of the equipment.

It is also mandatory to wear the hair collected to avoid snags with the moving parts of the equipment.

3.9 TRAINING LEVEL OF THE STAFF INVOLVED

All people working with the quasi-machine must have read and understood the safety chapter of the documentation.

4 GENERAL DESCRIPTION AND TECHNICAL INFORMATION

4.1 DESCRIPTION AND OPERATING PRINCIPLE

The linear guide has been designed for use together with 3arm® and ROSCAMAT® products, as well as compatible 3arm® and ROSCAMAT® accessories, thus providing greater functionality by significantly increasing the work area.

The existing side locks guarantee smooth and uniform movement along the guide. There are three basic models (linear guide of 1000 mm, 2000 mm and 3000 mm length), which can be configured with a multitude of combinations.

Any of the models can be supplied with a carriage transfer with movement blocking either manually (with a handle) or pneumatically (by activating a locking cylinder).

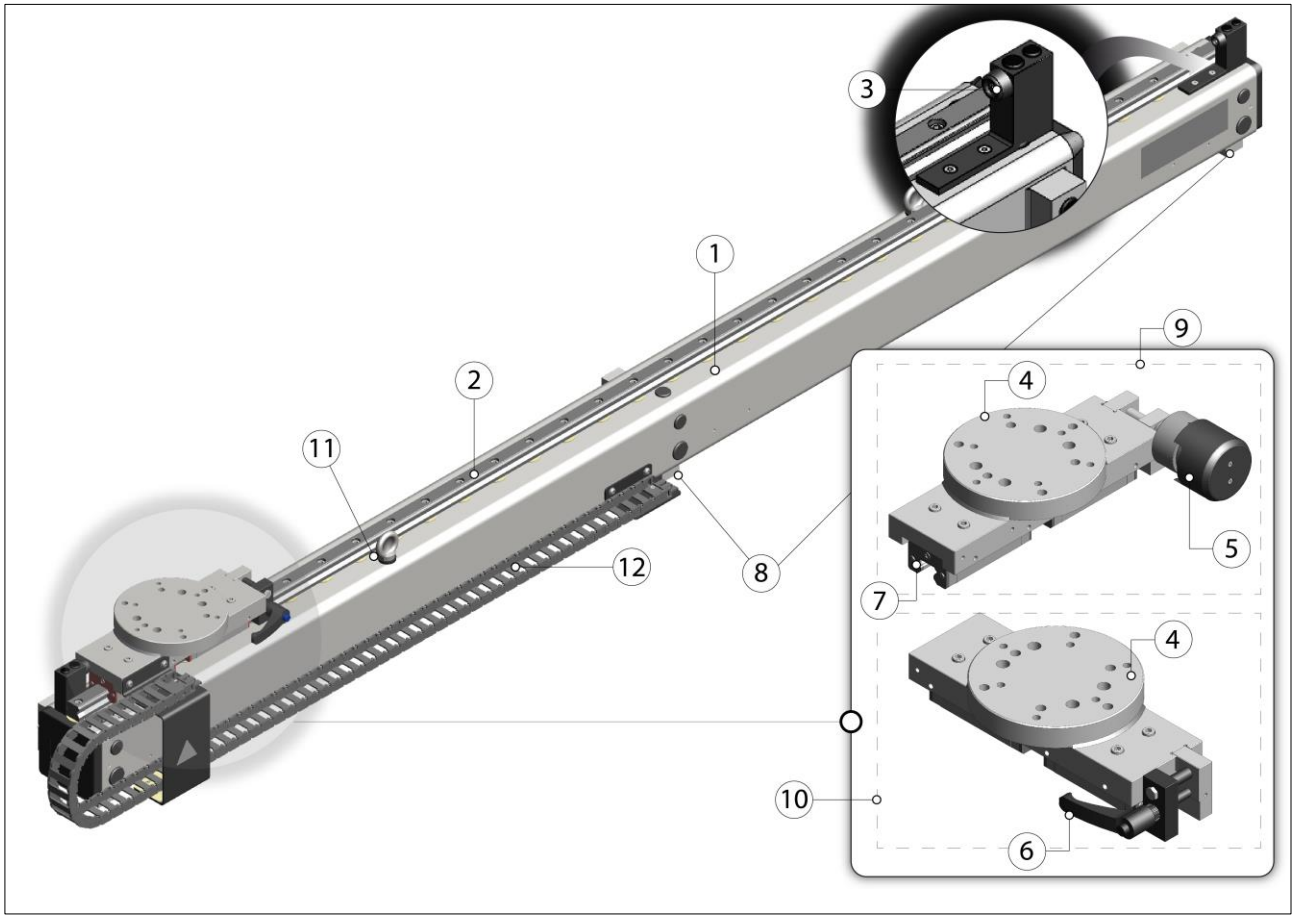
Mainstays can also be added to obtain a height adapted to the working conditions.

A cable chain will enable the cables and connections to be guided correctly if necessary.

INTEGRATION

- ✓ This equipment on its own is not a machine, it needs an additional compatible unit (Roscamat® or 3arm®) to make a specific application. It is the integrator's responsibility to study, design and analyse the possible risks of the specific application.

4.2 MAIN PARTS



1. Beam

2. Rail

3. End of run buffer

4. Fastening platen 3arm®/Roscamat®

5. Cylinder lock

11. Transport lug

6. Lock handle

7. Side lock

8. Fastening brackets

9. Carriage transfer (pneumatic lock)

10. Carriage transfer (manual lock)

12. Cable tray chain

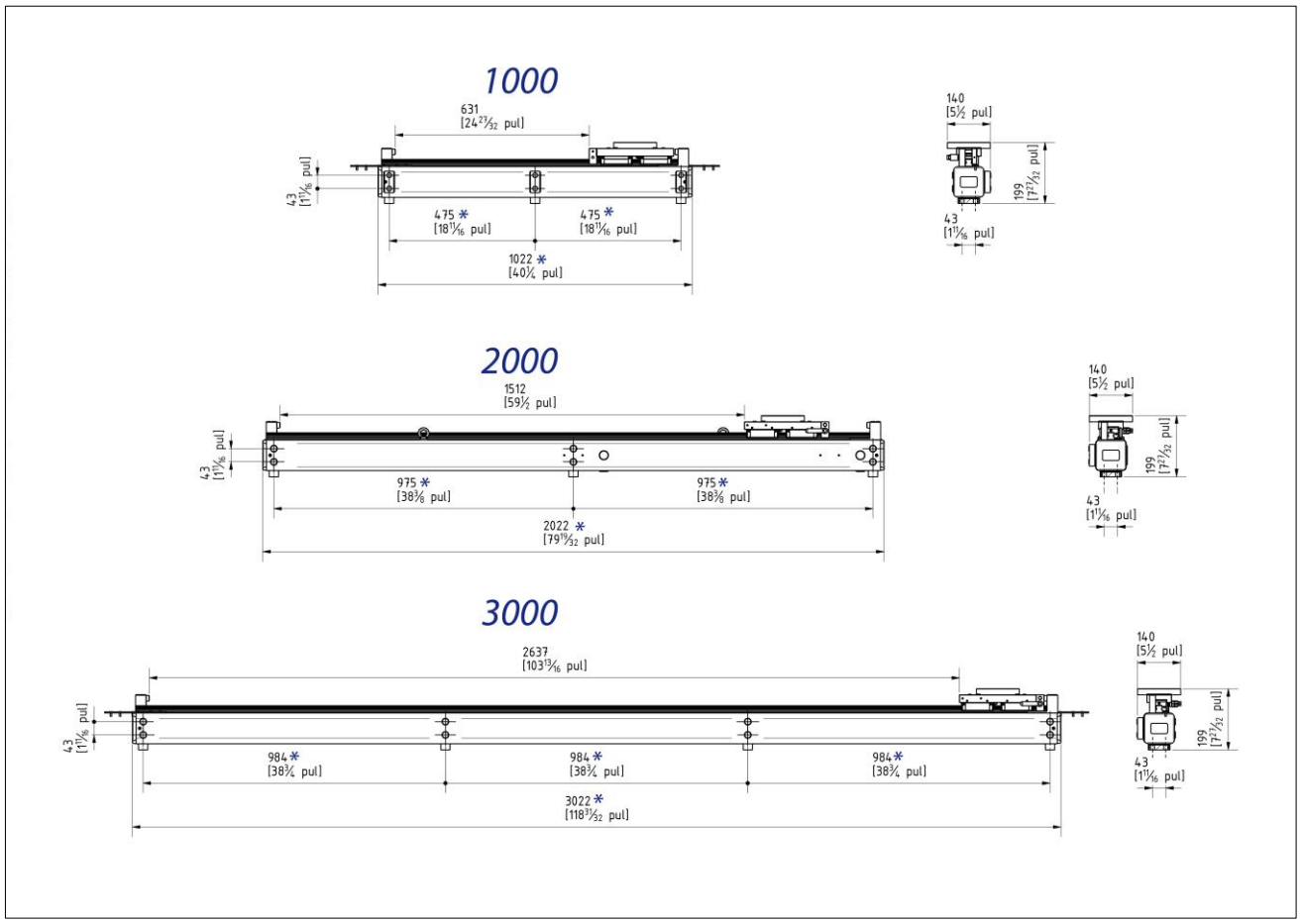
4.3 CONFIGURATIONS

4.3.1 CONFIGURATIONS

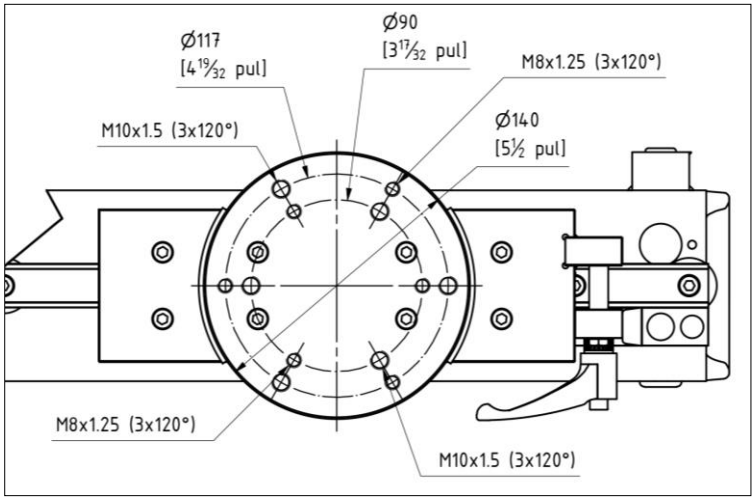
There are three basic models **(linear guide of 1,000 mm, 2,000 mm and 3,000 mm length)**, which can be configured in a multitude of combinations. Any of the models can be supplied with a transfer carriage with locking either manually (with a handle) or pneumatically (by activating a locking cylinder).

Mainstays can also be added to obtain a height adapted to the working conditions.

4.5 DIMENSIONS

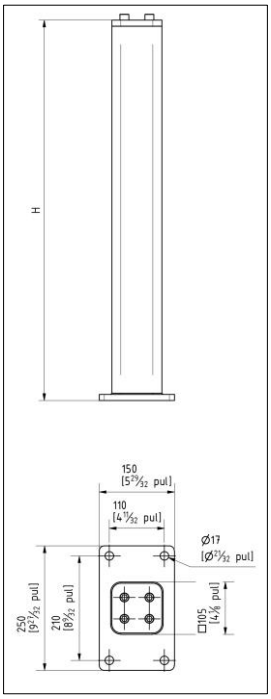


Linear guide general dimensions 1000, 2000 and 3000 mm



Mounting platen dimensions (carriage transfer manual locking and pneumatic locking)

(*) The dimensions marked can be discerned with those shown here in customised configurations. Consult the documentation provided with your order to obtain these dimensions.



Mainstay H dimensions

4.6 TECHNICAL SPECIFICATIONS

GENERAL TECHNICAL SPECIFICATIONS		
Maximum momentum[1]		560 Nm *(413 ft lb)*
Empty weight[2]		
Linear guide 1000		29 kg *(64 lb)*
Linear guide 2000		57 kg*(126 lb)*
Linear guide 3000		72.5 kg *(160 lb)*
Mainstays H=764		17 kg*(37 lb)*
Pneumatic specifications *(configurations with pneumatic locking)*		
	Power fluid	Pressurised air
	Recommended working pressure	0.6 MPa *(6 bar/ 87 Psi)*
	Max. power pressure	0.8 MPa *(8 bar/ 116 Psi)*
	Air quality	Filtered and dry
Operating conditions		
	Temperature	+15 to +45ºC *(59 – 113ºF)*
	Relative humidity	Max. 70%
	Environment	Industrial environments

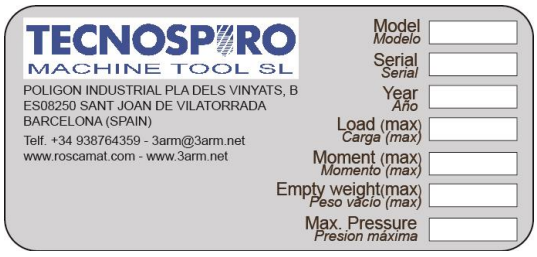
[1] **Maximum momentum:** Maximum applicable momentum in the centre of the transfer carriage. The maximum momentum value for the configuration is found on the identification label. Using the equipment with loads that cause a momentum greater than the maximum momentum is strictly prohibited.

[2] **Empty weight:** This value shown here may not match the value shown on the adhesive label in specific configurations.

4.7 IDENTIFICATION

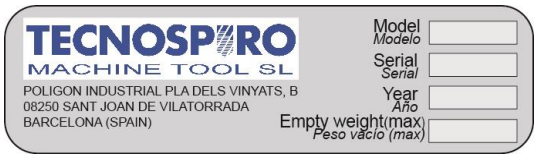
An adhesive label located above the fastening base identifies the linear guide and indicates the following specifications.

Manufacturer (name, address and company name), manufacture date, serial number, model, maximum work load, maximum feeding pressure, maximum work momentum and empty weight.



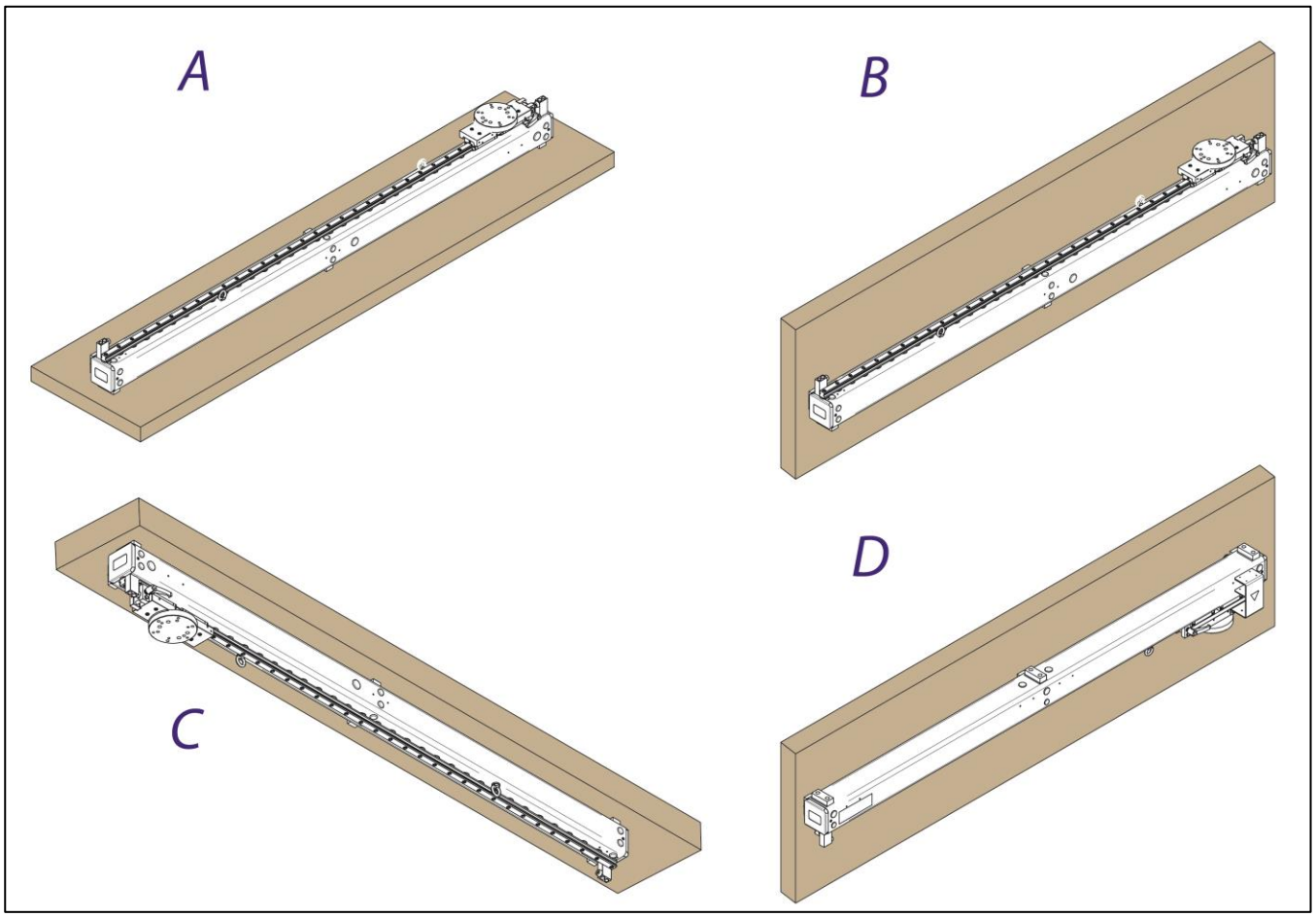
If the linear guide has been acquired as an element of a set, for example a 3arm® weightless arm together with a linear guide, the corresponding identification tag will indicate the following specifications.

Manufacturer (name, address and company name), manufacture date, serial number, model and empty weight.



5 INSTALATION, ADJUSTMENTS AND OPERATION

5.1 ASSEMBLY CONFIGURATIONS



A- Floor, B – wall, C – Ceiling, D - Inverted wall

5.2 INSTALLATION

INSTALLATION

- ✓ The equipment must be installed on a horizontal surface, avoiding divergences and deviations.
- ✓ This equipment has been designed for use together with 3arm® and ROSCAMAT® products, as well as compatible 3arm and ROSCAMAT accessories. In any case, the integrator, owner and/or end user is responsible for determining the suitability of the product for each use, as well as the installation location, the specific definition of the task to be performed within the limits set forth in this manual and the issue of the statement of compliance.

INSTALLATION LOCATION

Do not install the equipment in environments such as:

- ✓ areas with explosion or fire hazards
- ✓ exterior areas
- ✓ corrosive areas
- ✓ areas with extreme temperatures (very high or very low)
- ✓ areas with high humidity
- ✓ dusty areas
- ✓ areas with high electromagnetic emissions

USE OF EYEBOLT

- ✓ Remove the eyebolts after completing the installation.
- ✓ Use of the eyebolt should be limited to the installation, transport and decommissioning phases.

SUPPLY AIR (CONFIGURATIONS WITH PNEUMATIC LOCK)

- ✓ The air supply must comply with the specifications shown in *[See TECHNICAL SPECIFICATIONS page -11-]*
- ✓ The supply air must be treated by an air group with discharge valve and air filter

5.2.1 INDEPENDENT SECTION INSTALLATION

To install the ceiling or floor assembly guide, follow these instructions:

1. Remove the linear guide from its original packaging and position it on a horizontal, flat and sufficiently robust surface.

NOTE: Make use of the lugs (3) for safely handling the equipment

2. Remove the caps (3), the screws (2) (*Allen key 2.5 mm*) and side covers (1)

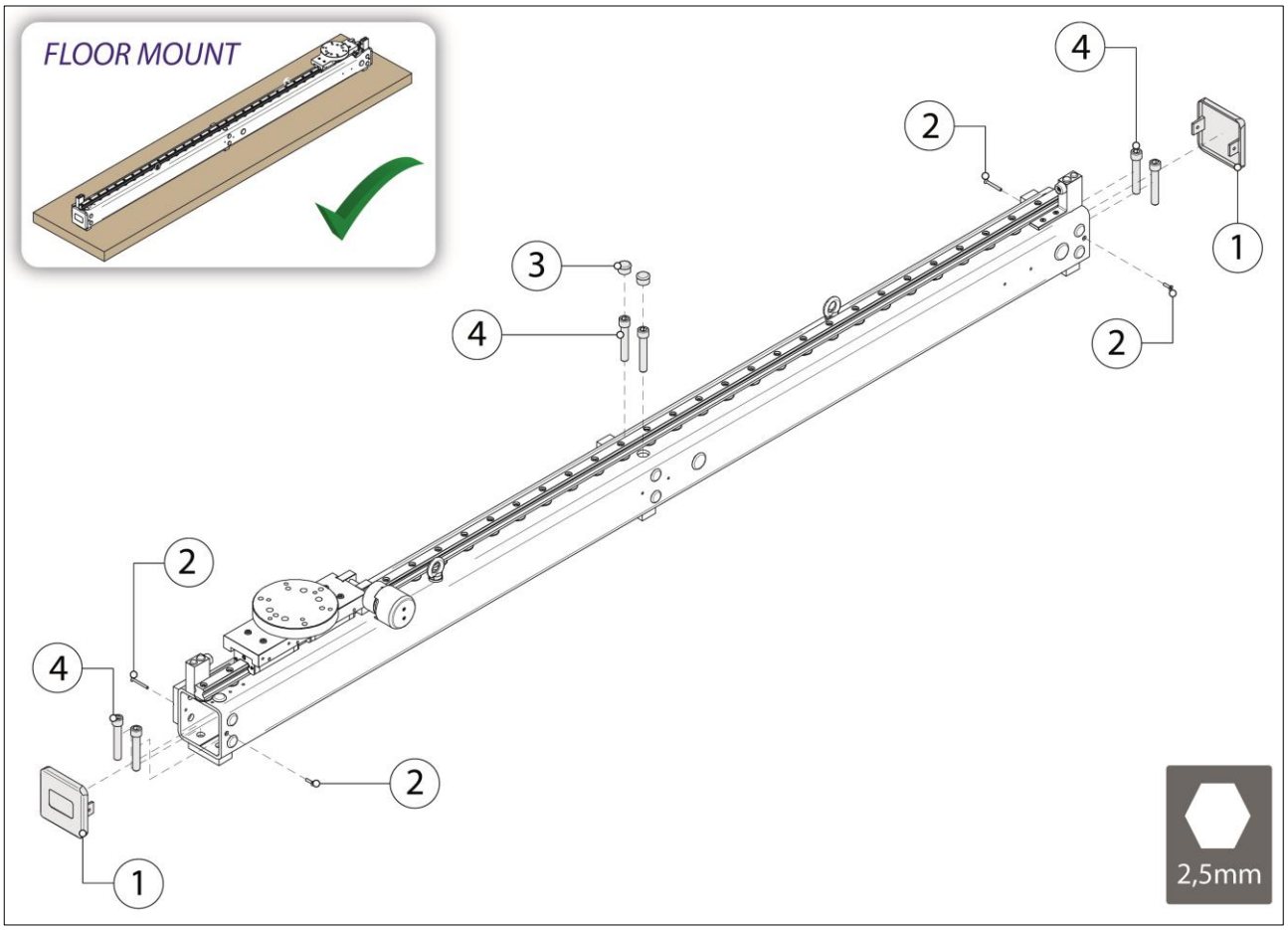
3. Fasten the linear guide with M12 screws (4) suitable for the selected location

Linear guide 1000: 6 units // Linear guide 2000: 6 units // Linear guide 3000: 8 Units

4. Remove the transport and handling lugs

5. Connect the air supply (Ø4 mm tube) with the locking cylinder (*for versions with pneumatic carriage*)

If necessary, assign two operators to perform this operation with total safety.



To install the assembly guide on a wall or inverted wall follow these instructions:

1. Remove the linear guide from its original packaging and position it on a horizontal, flat and sufficiently robust surface.

NOTE: Make use of the lugs (3) for safely handling the equipment

2. Remove the caps (1) and (2)

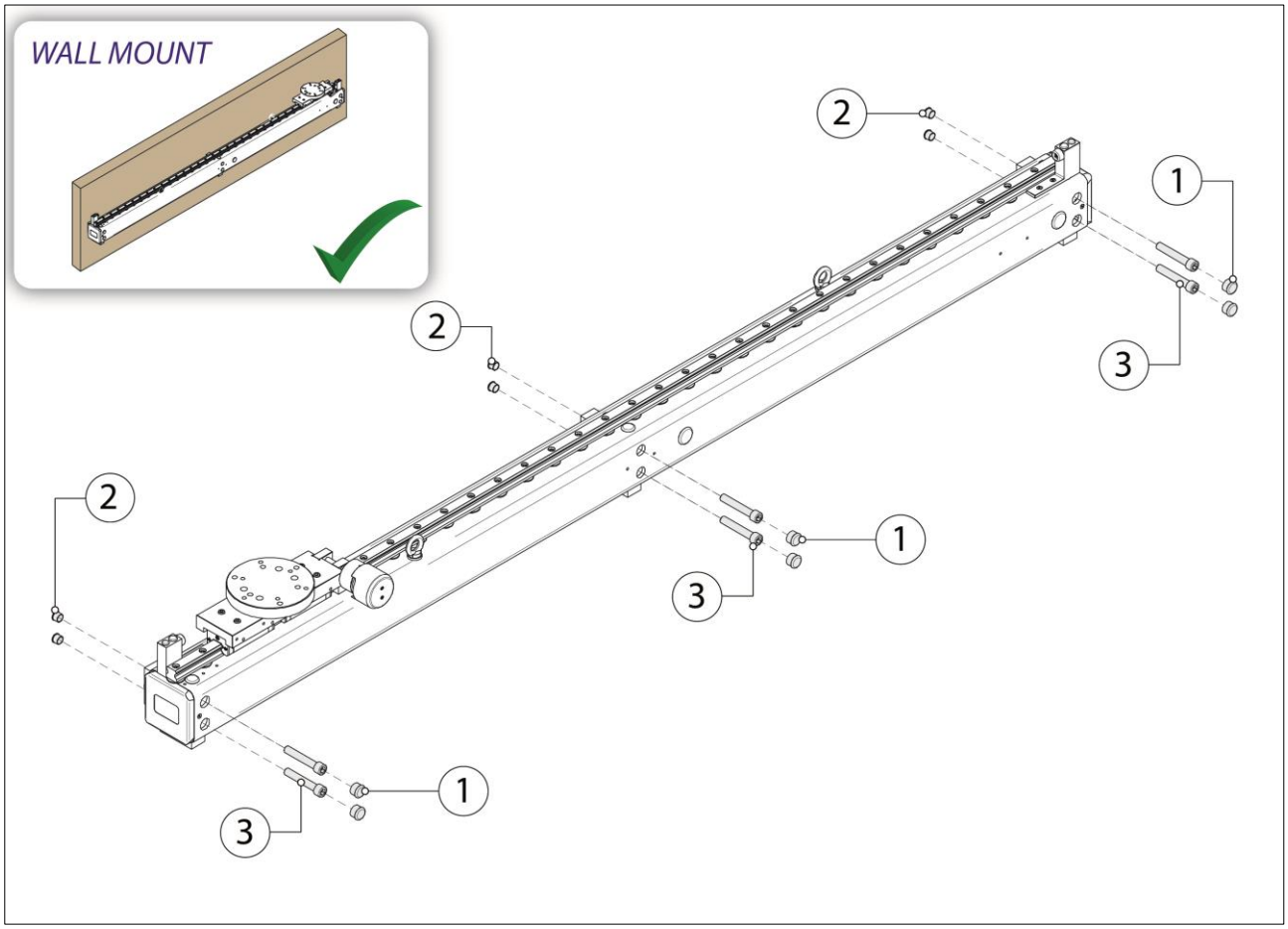
3. Fasten the linear guide with M12 screws (3) suitable for the location selected.

Linear guide 1000: 6 units // Linear guide 2000: 6 units // Linear guide 3000: 8 Units

4. Remove the transport and handling lugs

5. Connect the air supply (Ø4 mm tube) with the locking cylinder (*for versions with pneumatic carriage*)

If necessary, assign two operators to perform this operation with total safety.



5.2.2 INSTALLATION WITH MAINSTAYS

1. Remove the linear guide from its original packaging and position it on a horizontal, flat and sufficiently robust surface.

NOTE: Make use of the lugs (3) for safely handling the equipment

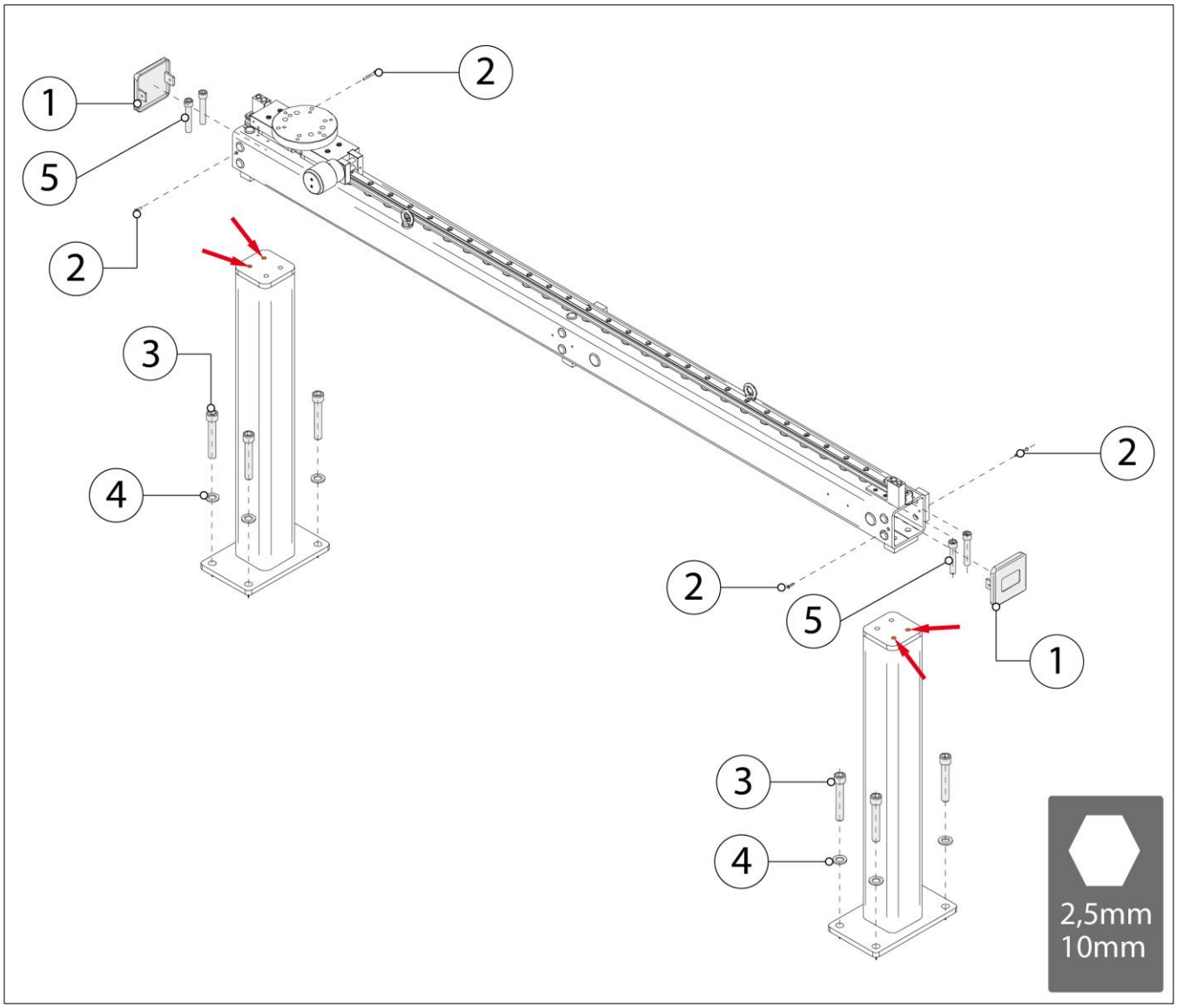
2. Remove the screws (2) (*Allen key 2.5 mm*) and side covers (1)

3. Fasten the mainstays at the correct distance by using M12 screws and washers suitable for the site selected.

4. Fasten the linear guide using screws M12 (5) (*Allen key 10 mm*) on the mainstays, making sure that it is fastened on the threads indicated.

5. Remove the transport and handling lugs

6. Connect the air supply (Ø4 mm tube) with the locking cylinder (*for versions with pneumatic carriage*)

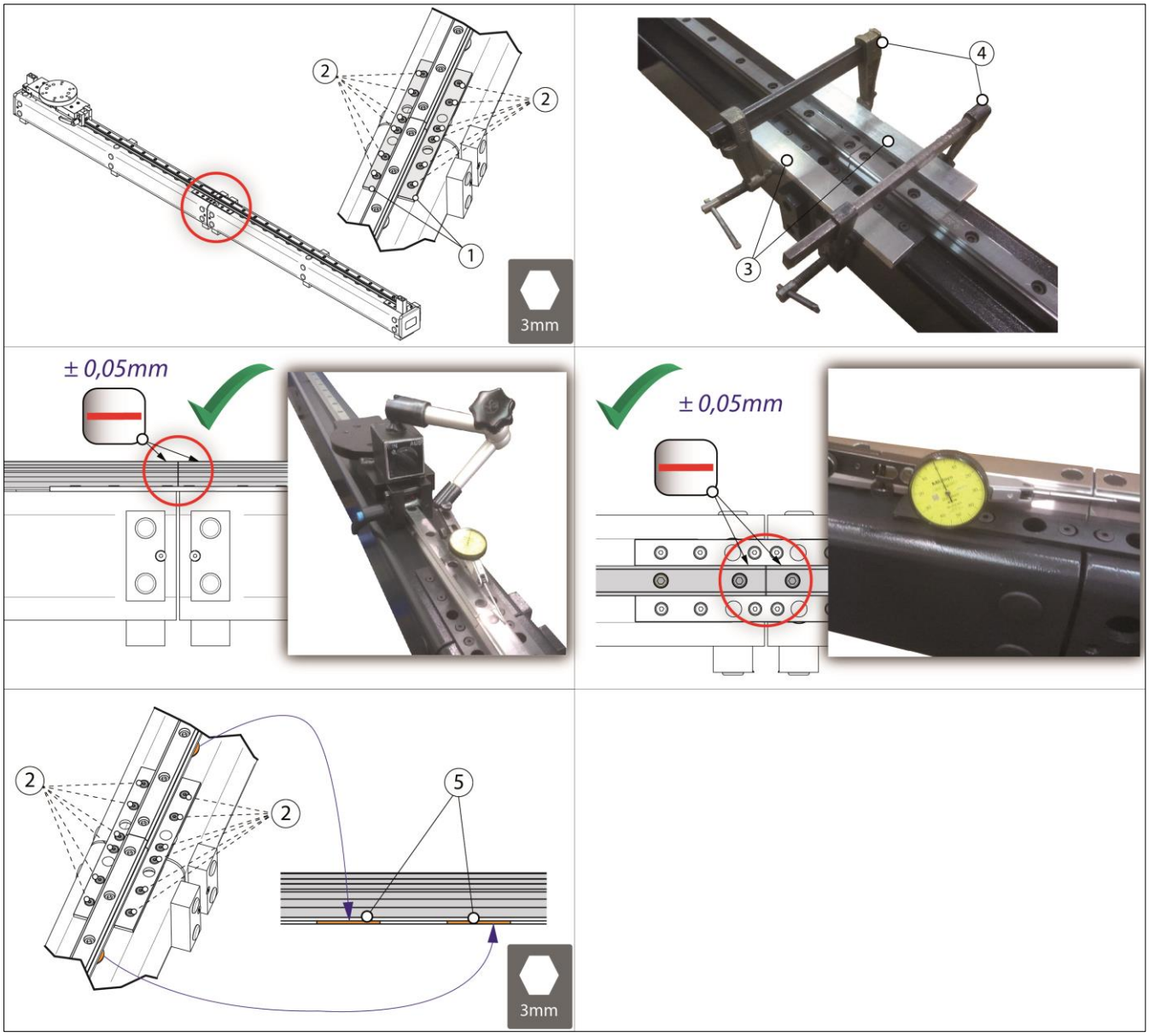


5.2.3 UNION BETWEEN SECTIONS

For the installation of several guide sections, make sure that the joint area between both guides is perfectly aligned. *The maximum deviation allowed is ±0.05 mm*

To do this, follow these instructions:

1. Align the two sections of linear guide to be joined, place the connecting piece (1) on both sides and slightly tighten the screws (2) *(Allen key 3mm)*
2. Place platens on both sides (3) and use two clamp screws (4) to make pressure in such a way that the rails are as well aligned as possible.
3. Fasten the screws (2) tightly (*Allen key 3mm*)
4. Place a probe on the transfer carriage to verify correct alignment with the sides shown. The maximum deviation allowed is ±0.05 mm
5. If the desired alignment is not achieved, the screws (2) can be tightened more or less. Deforming the nylon washers (5) located under the guides can help achieve the deviation required.

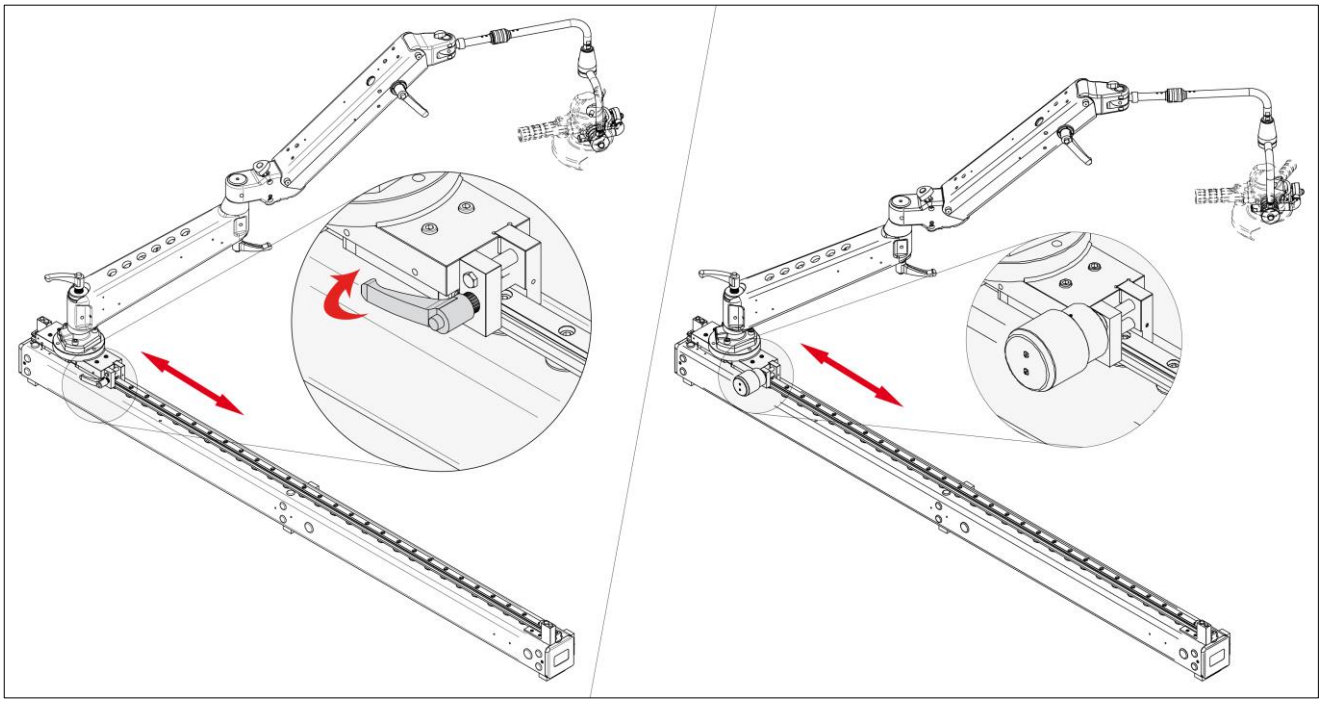


5.3 OPERATION

OPERATION

- ✓ The equipment (quasi-machine) should only be used after correct integration and after correct installation.
- ✓ Ensure that the transfer carriage remains free, check that there are no obstacles in the work area with which there could be a collision hazard.

- Move the transfer carriage along the beam, preferably from the base of the 3arm® or Roscamat® equipment.
- Lock the transfer carriage in any position by tightening the locking handle (configurations with manual locking) or supplying air *[See TECHNICAL SPECIFICATIONS page -11-]* to make the lock effective using the cylinder.



INACTIVITY PERIODS

- ✓ *In periods of inactivity, position the transfer carriage at one end of the linear guide by locking the locking lever (configurations with manual locking) or making sure that the locking cylinder keeps it locked (configurations with pneumatic locking).*

6 MAINTENANCE

6.1 MAINTENANCE PROGRAMME

DESCRIPTION	ACTION	PERIOD
Check locking system *(only versions with carriage with pneumatic locking)*	Check the correct functioning of the pneumatic locking system	Before each use
Cleaning and lubricating	Clean the guides with a dry and clean cloth. Add about 5 cm^3 of universal lithium grease to each side lock.	Every 50 km or yearly, whichever comes first.
Screws and fastening elements	Check tightening and functionality of the fasteners.	Periodically.
General cleaning	When dirty, clean with a mild household product. Do not use other cleaning agents, as they may cause damage. *(Exclude the guides from this operation)*	Periodically.

The list of spare parts can be consulted in this manual *[See SPARE* PARTS *page. -- 26 --].*

6.2 LOCKING SYSTEM MAINTENANCE

In the event of a malfunction of the linear guide carriage locking system, carry out the following checks in the order in which they are presented.

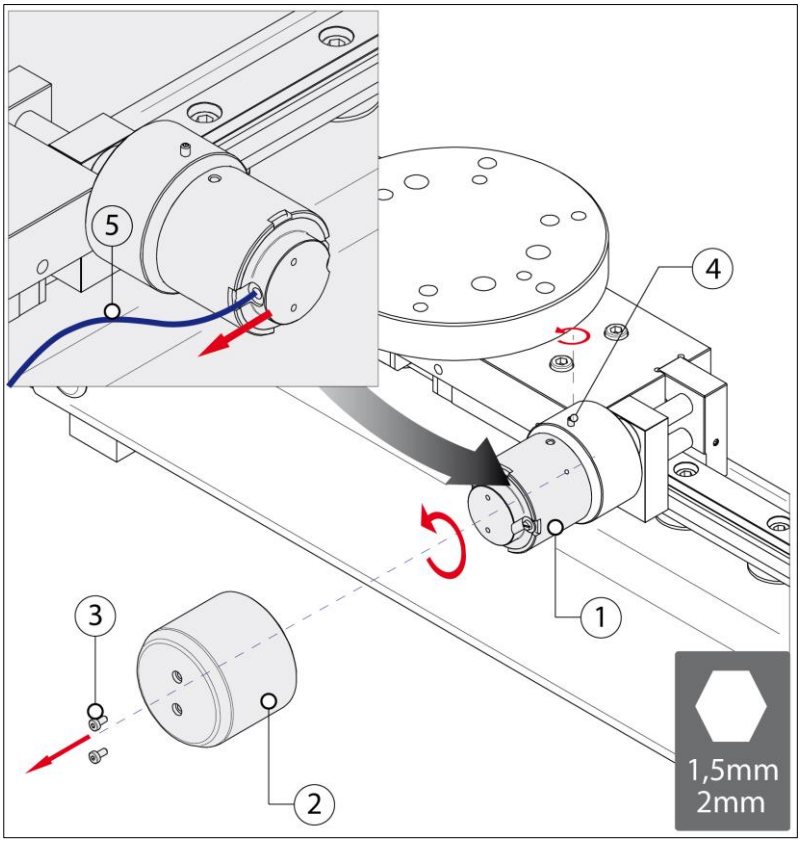
6.2.1 CHECK AIR SUPPLY

- Check that the cylinder's supply pressure is between 6-7 bar.
-Be sure to comply with the air quality requirements of the supply indicated in *[See TECHNICAL SPECIFICATIONS page -11-]*

6.2.2 ADJUSTING THE PNEUMATIC CYLINDER

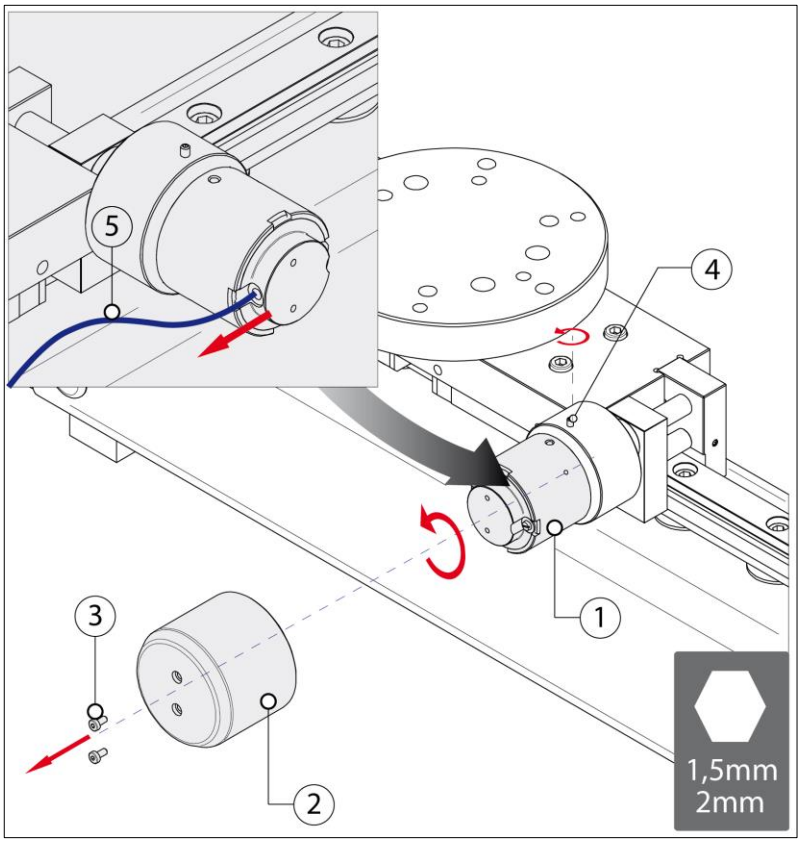
Follow the steps below to adjust the pneumatic locking cylinder.

6. Release the air pressure.
7. Remove the cap (2), first removing the screws (3) *(Allen key 2 mm)*
8. Disconnect the air supply tube (5)
9. Loosen the stud bolt (4) *(1.5mm Allen key)*
10. Screw the cylinder (1) clockwise until it stops.
11. Slightly unscrew the cylinder (1) anticlockwise (about 1/12 of a turn).
12. Refit the stud (4) *(1.5mm Allen key)*, the feed tube (5) and insert the cap (2) and its screws (3) (*Allen key 2 mm*)
13. Retake the air supply and check its operation



6.2.3 REPLACING THE LOCK CYLINDER

1. Release the air pressure.
2. Remove the cap (2), first removing the screws (3) *(Allen key 2 mm)*
3. Disconnect the air supply tube (5)
4. Loosen the stud bolt (4) *(1.5mm Allen key)*
5. Remove the cylinder (1) by unscrewing it counterclockwise
6. Screw the new cylinder ***MV406004*** (1) clockwise until it stops.
7. Unscrew the new cylinder ***MV406004*** (1) slightly counterclockwise (approx. 1/12 turn)
14. Refit the stud (4) *(1.5mm Allen key)*, the feed tube (5) and insert the cap (2) and its screws (3) (*Allen key 2 mm*)
15. Retake the air supply and check its operation



7 GUIDELINES FOR PACKAGING, TRANSPORT AND DISMANTLING

1.1 PACKAGING

Follow the instructions below for packing the equipment for location changes or shipments for repair and maintenance.

1.1.1 Preparatory measures

The equipment must be put out of service.
Assembling the "transport safety elements" will prevent movement during transport and thus possible damage to the installation.

1.1.2 Choice of packaging

For long transport distances, the components of the equipment must be packed in such a way that they are protected from atmospheric conditions.

1.1.3 Inscription on the packaging

Observe the specific provisions of the country in which the equipment is transported. In fully closed packaging, an indication must be placed on the packaging indicating where the top is.

1.1.4 Packaging procedure

The equipment must be placed on manufactured wooden pallets. Use lashing straps to ensure the components are secured against possible falls. Attach all the technical documentation that should accompany the equipment.

1.2 TRANSPORT

The following data must be taken into account for transport.

External dimensions depending on the segment (width x height x depth), approx. in mm.
I total weight depending on the segment:

COLUMN	MASS (KG/*lb*)	DIMENSIONS (mm/") (Width x Height x Depth)
Linear guide 1000	29/*(64)*	1132x562x432 / *44 4/7 22 1/8 17*
Linear guide 2000	57 / *(126)*	2132x382x232/ *84 15 9 1/7*
Linear guide 3000	72.5 / *(160)*	3132x362x232/ *123 1/3 14 ¼ 9 1/7*
Mainstay H=764	17 *(37)*	

NOTE: For linear guide configurations and Mainstays H = 764 (two units), these mainstays are supplied in the same package as the guide and must therefore be added to the mass indicated corresponding to the mainstay *(H=764, 34 kg/ 75 lb)* to the corresponding guide.

1.3 DISASSEMBLY

- ✓ The equipment must be taken out of service by duly trained and authorised personnel.
- ✓ The equipment must be dismantled taking the safety instructions, waste disposal and recycling into account.
- ✓ Protect the environment. The equipment must be disposed of pursuant to current regulations and guidelines on safety, noise prevention, environmental protection and accident prevention.

8 COMPATIBILITY TABLE 3ARM - ROSCAMAT

Accessory	SERIES – 3arm						
Linear guide	S1	S2	S3	S4	S6	M3	M5
	●	●	●	●	●	●	X

Accessory	SERIES – ROSCAMAT						
Linear guide	200	400	500	Dragon	Mosquito	Tiger	Shark
	●	●	●	●	●	●	●

9 ACCESORIES COMPATIBILITY TABLE

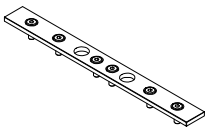
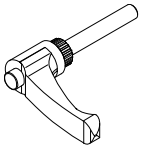
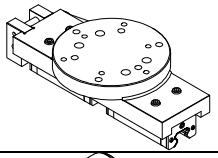
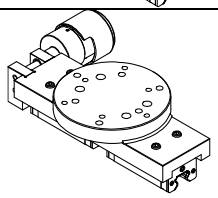
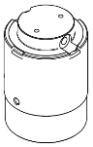
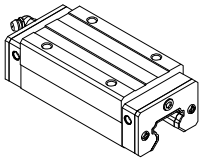
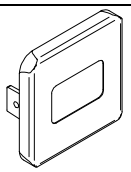
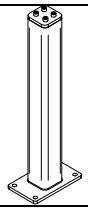
	LINEAR GUIDE
EXTENSION 500	●
EXTENSION 1000	X
FORKLIFT TRUCK	X
FIXED COLUMN	X
LIFT (500)	X
COLUMN 2000 D63	X
FLOOR RAIL	X

● = Compatible
X = NOT Compatible

COMPATIBILITY

✓ The equipment has been designed for use together with 3arm® products and ROSCAMAT® threaders, as well as compatible 3arm® and ROSCAMAT® accessories. The manufacturer does not assume any responsibility for damage that may arise from the use of the equipment for other purposes.

10 SPARE PARTS

CODE	DESCRIPTION	PICT.
CL021304	*RAIL GUIDE ASSEMBLY*	
AC060486	*ELESA LEVER ERX63pM8x50-C5*	
CL022404	*CARRIAGE AND SIDE LOCK HGH25HA*	
CL025004	*CARRIAGE AND SIDE LOCK HGH25HA (PNEUMATIC LOCK)*	
MV406004	*CYLINDER LOCK SWIVEL ARM*	
AC040646	*SKIFFY BUFFER 048200011407*	
NH121186	*SIDE LOCK HGH25HA*	
ER001303	*BEAM 1000 END COVER*	
MV405903	*CLAO COVER CIL 42*	
CL021504	*MAINSTAY H BODY ASSEMBLY*	

11 WARRANTY

The machine's warranty period is 12 months. Damage caused by overloading or undue treatment is excluded. The warranty is only valid if the product has been installed, used and serviced as described in the operating instructions.

The warranty covers the cost of labour and defective spare parts. Costs derived from transport, packaging and insurance as well as defects caused by not using original spare parts are the customer's responsibility.

Any attempt to repair the equipment without prior authorisation from TECNOSPIRO MACHINE TOOL, S.L. is also exempt from the warranty.

NOTES

DATE	DESCRIPTION

DECLARATION OF INCORPORATION

According to Directive 2006/42/CE on machinery, Appendix II B

The manufacturer:

Company:	TECNOSPIRO MACHINE TOOL, S.L.
Address:	P.I. Pla dels Vinyats I, s/n nau 1
City:	Sant Joan de Vilatorrada
Country:	Spain - EU

Declares that this product:

Name	Linear transfer guide
Model:	Linear guide
Type:	Linear guide 1000, 2000, 3000
Serial number:	001-001 Consecutive

Complies with Machinery Directive 2006/42/EC

We also declare that the technical documentation of this incomplete machine has been prepared according to the requirements of Appendix II B. This documentation will be released by the competent market watchdog authorities with a duly motivated requirement.

It is forbidden to commission the incomplete machine while it is not assembled or integrated, with the help of other parts, into a machine that complies with the provisions of the European machinery directive and with the EC statement of compliance according to the appendix II A.

Applied regulation:

Directive/Regulation	Description
UNE-EN ISO 12100:2012	Machinery safety. General design principles. Risk assessment and risk reduction.

Authorised for documentation: Mr Ramon Jou Parrot of TECNOSPIRO MACHINE TOOL, S.L

Sant Joan de Vilatorrada, Friday, 29 November 2017

Ramon Jou Parrot, Technical Director