

MANUAL

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SLIMdrive-660s



Manual SLIMdrive-660s

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1 INTRODUCTION

The product documentation consists of this manual and a data sheet.

This document is intended to enable assembly personnel to work safely with the SLIMdrive-660s. The assembly personnel must therefore always have the complete documentation available. The document must remain in a complete and perfectly legible condition. Follow the instructions in this document to avoid hazards and to prevent damage to the SLIMdrive-660s.

The information in this document has been compiled with great care. We strive to ensure the accuracy and completeness of the content by revising it and updating it regularly. However, no guarantee can be given for its accuracy or completeness.

1.1 COPYRIGHT

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1.2 ROYALTY-FREE USE OF IMAGES AND TEXT

After purchase and full payment of the product, the texts and graphics in Chapter 2 - "Safety" - may be used free of charge by the customer for a period of 10 years from delivery. It should be used to prepare end-user documentation for the height-adjustable table in which the SLIMdrive-660s was installed. This license does not include logos, design, and page layout elements belonging to LOGICDATA. The customer may make any necessary changes to the text and graphics in order to adapt them to the purpose of the end customer documentation. Texts and graphics may not be changed or sold in their current state, and may not be published or sublicensed digitally. The transfer of this license to third parties without permission from LOGICDATA is excluded. Full ownership and copyright of the text and graphics remains with LOGICDATA. Texts and graphics are offered in their current state without warranty or promise of any kind.

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1.3 SYMBOLS AND SIGNAL WORDS USED

 DANGER	Imminent threat to the lives of persons Safety notices marked “DANGER” describe imminent danger to the life and health of persons.
 WARNING	Risk of serious personal injury or material damage Safety notices marked “WARNING” describe dangerous situations that have the potential to affect the health of persons.
 CAUTION	Risk of minor personal injury or material damage Safety notices marked “CAUTION” describe dangerous situations that have the potential to cause minor personal injury or property damage.
NOTICE	Texts marked “NOTICE” indicate supporting information for installation, operation, servicing, or repair.
	This symbol indicates the risk of damage due to electrostatic discharge (ESD)
	This is a protection class III device



2 SAFETY

2.1 GENERAL SAFETY REGULATIONS AND OBLIGATIONS

In general, the following safety regulations and obligations apply when handling the product:

- Do not operate the SLIMdrive-660s unless it is in a clean and perfect condition
- Do not remove, change, bridge, or bypass any protection, safety, or monitoring equipment
- Do not convert or modify the SLIMdrive-660s without written approval from LOGICDATA
- In the event of malfunction or damage, the SLIMdrive-660s must be replaced immediately
- Unauthorized repairs are prohibited
- Do not attempt to replace hardware unless the device is in a de-energized state
- Only skilled persons are allowed to work on the SLIMdrive-660s.
- Ensure that national worker protection conditions and national safety and accident prevention regulations are observed during operation of the system



2.2 RESIDUAL RISKS

Residual risks are the risks that remain after all relevant safety standards have been complied with. These have been evaluated in the following risk assessment:

DANGER

Danger to life due to electrical hazard

Observe the following when handling the SLIMdrive-660s to avoid electrical hazards:

- Never open the SLIMdrive-660s linear actuator
- Operate the SLIMdrive-660s only with LOGICDATA control boxes
- Do not operate the SLIMdrive-660s if the cable is damaged
- Damaged cables must be replaced by the manufacturer, or the entire SLIMdrive-660s must be replaced.
- Disconnect the SLIMdrive-660s from the control box during assembly and disassembly
- Do not immerse the cable in liquids
- Keep the cable away from heated surfaces.
- Clean the SLIMdrive-660s only with a dry or slightly damp cloth.

**⚠ CAUTION****Danger due to exceeding the duty cycle**

The SLIMdrive-660s linear actuator is not designed for continuous operation. When adjusting the height of a table top, ensure that the product is not active for longer than duty cycle indicated on the type plate.

NOTICE

Connecting self-made products to SLIMdrive-660s is prohibited. Only controls and accessories that have been approved by LOGICDATA may be used in combination with the SLIMdrive-660s.

⚠ CAUTION**Danger due to premature commissioning**

Do not operate the SLIMdrive-660s until it is properly mounted.

⚠ WARNING**Risk of pinching when changing the table top height**

Make sure that there are no persons or objects in the table's range of movement.

⚠ WARNING**Danger due to improper conversion or modification**

Do not convert or modify the SLIMdrive-660s

⚠ DANGER**Risk of explosion**

Do not operate the SLIMdrive-660s in potentially explosive atmospheres.

⚠ WARNING**Risk of pinching during start-up of the drive**

During the start-up of the drive, collision protection (ISP) is inactive for 1-2 seconds. The drive moves slightly before shutting off automatically. Ensure that no persons are in the drive's range of movement at this time.

⚠ WARNING**Risk of pinching during reset operations and at the limit position area**

Collision protection (ISP) is not active during limit position calibration. There is a risk of pinching. Make sure that no persons or objects are in the drive's range of movement at this time.



! WARNING

Danger from exceeding the lifting capacity

Do not exceed the static or dynamic load limit of the SLIMdrive-660s (see data sheet).

! DANGER

Danger from the spindle system

During installation, the SLIMdrive-660s must be clad in such a way that no contact with the spindle system is possible during operation.

NOTICE

The cladding of the SLIMdrive-660s should be constructed in such a way that there is no risk of pinching in the clad areas.

NOTICE

When assembling the final product, ensure that the motor cable is routed properly. There must be no risk of tripping or stumbling.

! DANGER



Danger to life due to electrical hazard

The SLIMdrive-660s is a Protection Class III device. It may only be supplied with safety extra-low voltage (SELV). Read the type plate for exact specifications.



2.3 IMPORTANT NOTES FOR RESELLERS

LOGICDATA defines resellers as companies that purchase the SLIMdrive-660s to install it in their own products.

NOTICE

For reasons of EU conformity and product safety, you should provide users of your products with an operating manual in their native EU official language.

NOTICE

Your operating manual must include all the safety instructions that end users require in order to handle your product safely.



NOTICE

The operating manual for your end product must contain:

- An instruction to read the operating instructions before using the product
- An instruction to always keep the operating instructions in the immediate vicinity of the product

DANGER

Other dangers

Perform a risk assessment on your product so that you can respond to potential residual hazards. The assessment may include measures to mitigate risk, or references to the relevant passages in the operating instructions / safety instructions for your product.

NOTICE

Ensure that no unauthorized persons (young children, persons under the influence of medications, etc.) are allowed to handle your product.

2.4 SKILLED PERSONS

The SLIMdrive-660s may only be installed and commissioned by skilled persons. LOGICDATA defines a skilled person as:

- A person who is authorized for installation planning, installation, commissioning, or maintenance/ servicing of the product
- A person who has read and understood the SLIMdrive-660s documentation
- A person with the relevant technical education, training, and/or experience to perceive risks and avoid hazards
- A person with knowledge of the specialist standards applicable to the product
- A person with the expertise to test, assess, and manage electrical and mechatronic products and systems in accordance with the generally accepted standards and guidelines of electrical engineering and furniture manufacturing



2.5 LIABILITY

LOGICDATA products comply with all currently applicable health and safety regulations. However, risk can result from incorrect operation or misuse.

LOGICDATA is not liable for damages caused by:

- Improper product use
- Disregard of the documentation
- Unauthorized product alterations
- Improper work on and with the SLIMdrive-660s
- Operation of damaged products
- Worn parts
- Improperly performed repairs
- Unauthorized changes to the operating parameters
- Disasters, external influence, and force majeure

The reseller assumes responsibility for the LOGICDATA products installed in their applications. They must ensure their product complies with the relevant directives, standards and laws. LOGICDATA shall not be held liable for any damage that is directly or indirectly caused by the delivery, performance, or use of this document.

Resellers must observe the relevant safety standards and guidelines for each product in which the SLIMdrive-660s is installed.



3 PRODUCT

3.1 DESCRIPTION

The SLIMdrive-660s is a spindle drive for electrically height-adjustable tables. It is installed by resellers in a height-adjustable column for electrically height-adjustable tables. It is controlled by a LOGICDATA control box, to which various operating elements can be connected. Several drives can be operated synchronously by one control box.



Fig. 1: Construction of the SLIMdrive-660s

1	Motor end attachment point (incl. fastening screws with rubber washers)
2	Motor
3	Cable
4	Middle tube attachment (installation variant – thick tube up)
5	Middle tube attachment (installation variant – thick tube down)
6	Spindle end attachment point



3.2 INTENDED USE

The SLIMdrive-660s linear actuator may only be installed and used in telescopic tubes for electrically height-adjustable tables. The intended use is the electric adjustment of a table's height. Only LOGICDATA control boxes that are compatible with the SLIMdrive-660s linear actuator may be used for this purpose.

Use beyond or outside the intended use will void the product's warranty.

Linear actuators must be assembled, commissioned, and checked by qualified personnel.

The basic function is the upward and downward movement of a table top. This function can be executed with all LOGICDATA hand controls.



NOTICE

Permissible drive loads and speeds always refer to the product SLIMdrive-660s. They do not account for additional load on the table system. Resellers must take additional loads into account. These include:

- Friction
- Deadweight of the table's components
- Torque loads

The newly determined permissible load must be specified in the documentation for the final product.

4 SCOPE OF DELIVERY

The standard scope of delivery for the SLIMdrive-660s linear actuator consists of the following components:

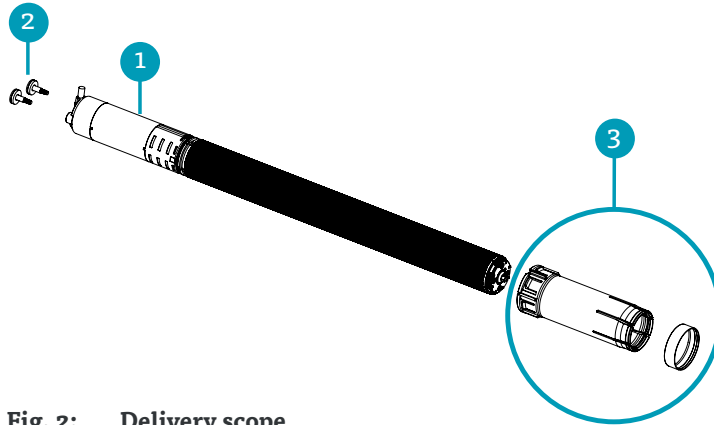


Fig. 2: Delivery scope

Standard scope of delivery:

- | | |
|---|---|
| 1 | SLIMdrive-660s linear actuator |
| 2 | Two mounting screws incl. rubber washers (LOG-PRT-SD-MOUNTINGSCREW) |

Optional for installation variant "thick tube up":

- | | |
|---|--------------------------------|
| 3 | Middle tube adapter and sleeve |
|---|--------------------------------|

5 UNPACKING

The SLIMdrive-660s linear actuator is packaged in cardboard.



NOTICE



Ensure proper ESD handling during unpacking. Damage that can be attributed to electrostatic discharge will void warranty claims.

To unpack the product:

1. Remove the packaging material from the drive components.
2. Check the contents of the package for completeness and damage.
3. Provide the operating manual to the operating personnel.
4. Dispose of the packaging material.

NOTICE

Dispose of the packaging material in an environmentally friendly manner. Remember to separate plastic parts from the cardboard packaging.

6 ASSEMBLY

6.1 GENERAL ASSEMBLY

NOTICE

Before assembly and operation, the SLIMdrive-660s must be acclimatised to the ambient conditions.

NOTICE



Ensure proper ESD handling throughout the installation. Damage that can be attributed to electrostatic discharge will void warranty claims.

6.1.1 DRIVE DIMENSIONS

Fig. 3 shows the dimensions of the SLIMdrive-660s linear actuator in its retracted and extended positions.

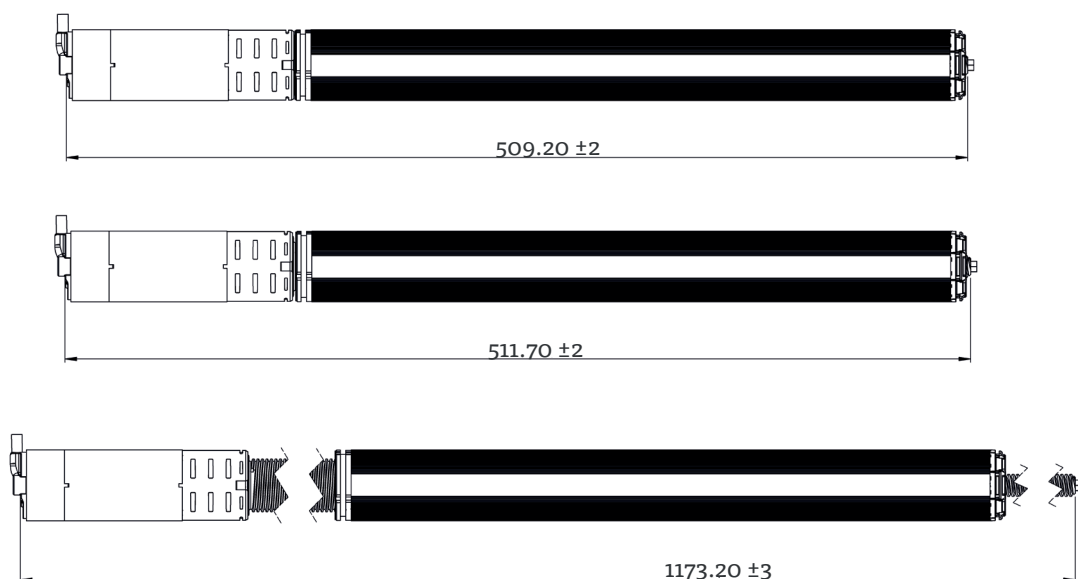


Fig. 3: Drive dimensions



6.1.2 INSTALLATION VARIANTS

The SLIMdrive-660s is designed for synchronous movement of the middle tube.



Fig. 4: Synchronous movement of the middle tube results in the distance marked by x remaining constant. This is not affected by the height of the table.

The drive should be connected to middle tube of the height-adjustable column. There are two installation variants. The installation variant you require depends on the type of height-adjustable column that the drive will be installed in. These are defined as follows:

- “Thick tube up”: The tube with the largest diameter is at the top (table top)
- “Thick tube down”: The tube with the largest diameter is at the bottom (floor)

The SLIMdrive-660s can be installed in both types of column. However, you will need to order additional components ([see Chapter 4 “Scope of Delivery”](#)) for the variant “Thick tube up”.

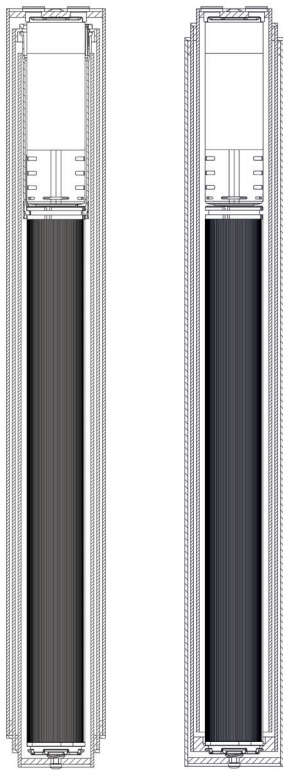


Fig. 5: “Thick tube up” and “Thick tube down” in their retracted positions

NOTICE

In both installation variants, the inner diameter of the inner tube must be selected so that an all-round air gap of 3 mm between the inner wall of the tube and the SLIMdrive-660s is guaranteed.

NOTICE

Height-adjustable columns must be designed so that the motor end of the SLIMdrive-660s always faces up and the steel spindle faces down.

6.1.3 INSTALLATION TOLERANCES

NOTICE

In order to function properly, height-adjustable columns must comply with the tolerances specified by LOGICDATA. Failure to comply will void all warranty claims. Information on tolerances is published by LOGICDATA on request.

6.1.4 DEFAULT SETTINGS

NOTICE

Failure to follow the instructions below may result in damage to the SLIMdrive-660s or to other products.

NOTICE

LOGICDATA recommends measuring the dimensions of the SLIMdrive-660s before assembly. Use a gauge or other suitable measuring equipment to do this.

NOTICE

In order to utilize the complete stroke of the drive, the height-adjustable column must be of a sufficient length. The drive must reach its final position before the tube.

NOTICE

Deviating spindle settings may only be implemented with approval from LOGICDATA.

Adjusting the drive

Before mounting the SLIMdrive-660s into the tube system, adjust the position of the spindles as follows:

1. Tighten the aluminium tube (by turning it counter clockwise) until it reaches its final position.
2. Loosen the aluminium tube to reach the target position. This should be 1.25 mm before the end position (see [Fig. 6: Adjusting the steel spindle](#)).

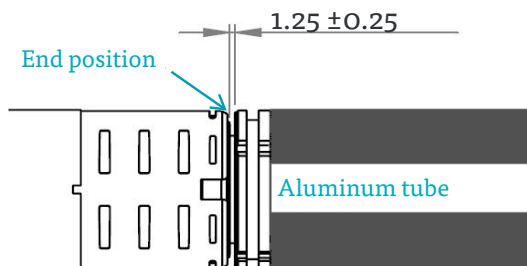


Fig. 6: Adjusting the steel spindle

3. Turn the steel spindle until the target position is reached. The target position is 6mm away from the end of the hollow spindle, see [Fig. 7: Adjusting the steel spindle](#)).
4. Ensure that the steel spindle does not move from this position during assembly.

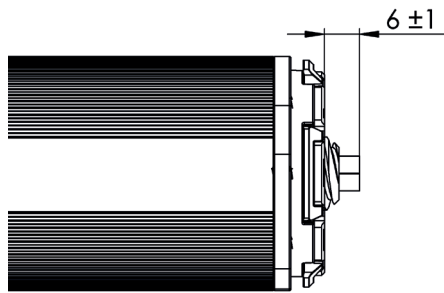


Fig. 7: Adjusting the steel spindle

6.2 ASSEMBLY VARIANT — “THICK TUBE UP”

This chapter provides instructions on how to install the SLIMdrive-660s into “thick tube up” height adjustable columns.

If you are using the installation option “thick tube down”, skip this chapter and follow the instructions in chapter 6.3.

SETTING UP THE TUBE ADAPTER

In the variant “thick tube up”, you will need to assemble the tube adapter. The exception to this are units preassembled by LOGICDATA. The drive can also optionally be used with a separately supplied tube adapter and sleeve. To install the tube adapter, follow these steps:

1. Apply grease generously all around the spindle nut of the drive in order to maintain good gliding properties between the tube adapter and the drive. Use the recommended lubricants in the design specifications. These specifications can be obtained from LOGICDATA.

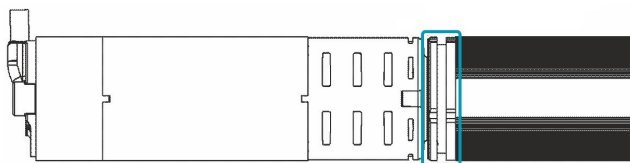


Fig. 8: Spindle nut

2. Attach the tube adapter to the nut of the hollow spindle. Ensure that all flaps of the tube adapter on the drive nut are properly snapped into place.



Fig. 9: Attaching the tube adapter

3. Use the sleeve to fit the tube adapter into place.



Fig. 10: Attaching the sleeve

4. Ensure that the inner ring of the sleeve is properly snapped into place on the nut of the tube adapter.
5. Test the rotation characteristics of the tube adapter. These should be smooth and quiet.
6. Check the direction during assembly. The sleeve must snap into place positively (no projection).

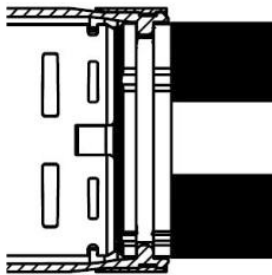


Fig. 11: Cross-section of the sleeve

6.2.1 MIDDLE TUBE CONNECTION

In the variant “thick tube up”, you will need to assemble the tube adapter (see chapter 6.2.1). The exception to this are units preassembled by LOGICDATA. The tube adapter should connect the drive via a special counterpiece (see Fig. 12: Representative illustration of the tube adapter counterpiece) with the middle tube of the height-adjustable column.



NOTICE

The design specifications for the tube adapter counterpiece are available from LOGICDATA only on request. These include dimensions and tolerances, as well as notes on assembly and material selection.

⚠ CAUTION

Danger due to insecure connections

To ensure a secure connection, the counterpiece must be designed according to LOGICDATA specifications. Failure to comply will void warranty claims.

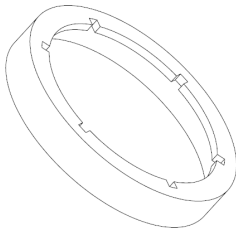


Fig. 12: Representative illustration of the tube adapter counterpiece

Recommended assembly procedure:

NOTICE

The assembly procedure shown is based on a height-adjustable column design in which the top plate can be removed (i.e., it is not permanently connected to the thick tube). Contact LOGICDATA to get instructions for mounting the drive into other types of height-adjustable columns.

NOTICE

Measure the friction between the tube pairs before installing the drive. The combination of the control box and drive is not a suitable means for measuring friction.

Follow these steps to assemble the drive with the installation variant “thick tube up”:

1. Mount the tube adapter counterpiece into the center tube (see Fig. 12: Representative illustration of the tube adapter counterpiece).
2. Insert the three tubes into each other.

NOTICE

Measure the gliding properties of the height-adjustable column without the drive after this step.

NOTICE

The maximum force on the tube adapter counterpiece must not exceed 150 N. This will result in a difference in frictional forces between the tube pairs.

3. Mount the drive into the preassembled height-adjustable column (see Fig. 13: Example of actuator installation in a cylindrical height-adjustable column).
4. Attach the drive at the motor end and spindle end, according to Chapter 6.4 and Chapter 6.5.

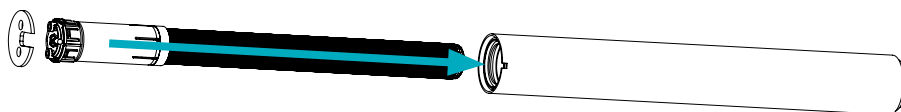


Fig. 13: Example of actuator installation in a cylindrical height-adjustable column

6.3 ASSEMBLY VARIANT — “THICK TUBE DOWN”

The following instructions are only valid for versions of the SLIMdrive-660s with Drop&Drive. Consult the accompanying data sheet if you are unsure whether your version of the SLIMdrive-660s features Drop&Drive.

The middle tube adapter (see [Fig. 14: Representative illustration of the middle tube adapter](#)) is produced by the customer and attached to the middle tube. It is connected to the drive in the installation variant “thick tube down”.

NOTICE

LOGICDATA provides design specifications for the middle tube adapter only on request. These include dimensions and tolerances, as well as notes on material selection and assembly.

⚠ CAUTION

Danger due to insecure connections

To ensure a secure connection, the middle tube adapter must be designed according to LOGICDATA specifications. Failure to comply will void warranty claims.

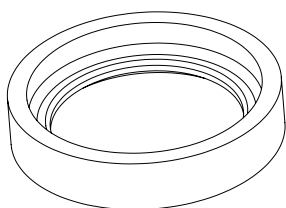


Fig. 14: Representative illustration of the middle tube adapter

Recommended assembly procedure:

NOTICE

The assembly procedure shown is based on a height-adjustable column design in which the top plate can be removed (i.e., it is not permanently connected to the thick tube). Contact LOGICDATA to get instructions for mounting the drive into other types of height-adjustable columns.

NOTICE

Measure the friction between the tube pairs before installing the drive. The combination of the control box and drive is not a suitable means for measuring friction.

Proceed with the following steps to assemble the drive with the installation variant "thick tube down":

1. Mount the middle tube adapter (see Fig. 14: Representative illustration of the middle tube adapter) in the center tube.
2. Insert the three tubes into each other.

NOTICE

Measure the gliding properties of the height-adjustable column without the drive after this step.

NOTICE

The maximum force on the tube adapter counterpiece must not exceed 300 N. This will result in a difference in frictional forces between the tube pairs.

3. Apply grease generously all around the nut insert in order to obtain good gliding characteristics (see Fig. 15: Nut insert). Use the recommended lubricants from the design specifications. You can obtain these specifications from LOGICDATA.
4. Use a suitable production tool (e.g. a hydraulic press) to insert the drive into the height-adjustable column (see Fig. 16: Assembling the middle tube).

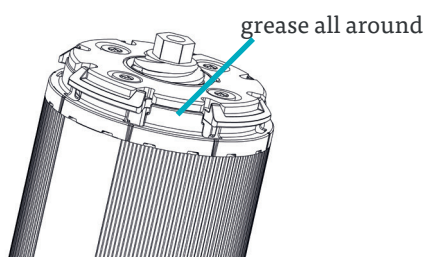
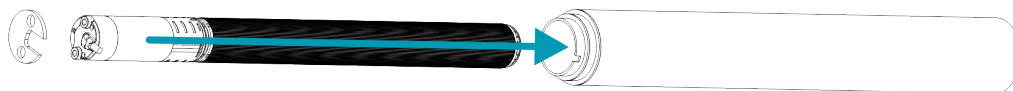


Fig. 15: Nut insert

NOTICE

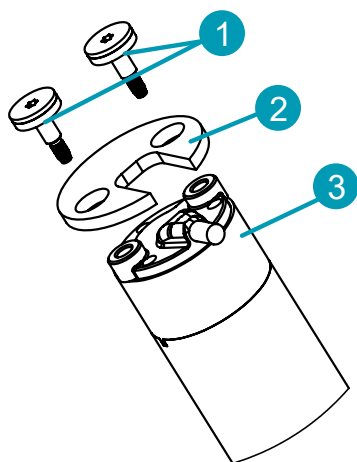
Contact LOGICDATA for advice on suitable production aids, joining forces and joining speeds. LOGICDATA can also provide detailed information on the assembly process. Failure to perform the joining process properly may result in damage to the SLIMdrive-660s.

**Fig. 16: Assembling the middle tube**

5. Attach the drive at motor end and spindle end according to [Chapter 6.4](#) and [Chapter 6.5](#).

6.4 ATTACHING THE MOTOR END

The figure below depicts the components required to attach the drive at the motor end.

**Fig. 17: Overview of the motor end**

1	Mounting screws incl. rubber washers (tightening torque 2.5 – 3 Nm)
2	Top plate
3	Drive



NOTICE

The design specifications for the top plate are available from LOGICDATA only on request. These include dimensions and tolerances, as well as notes on assembly.

NOTICE

Do not lift the SLIMdrive-660s by the cable. Ensure that the cable is not damaged during assembly.

NOTICE

The mounting screws and rubber washers are supplied together with the drive. Tighten the mounting screws to the recommended torque of 2.5 - 3 Nm.

**NOTICE**

Only mount the SLIMdrive-660s with the supplied screws.
Correct tightening cannot be guaranteed with other screws.

NOTICE

Mounting without the rubber washers is not permitted.

! CAUTION**Danger due to insecure connection**

To ensure a secure connection, the top plate must be designed according to LOGICDATA specifications. Failure to comply will void warranty claims.

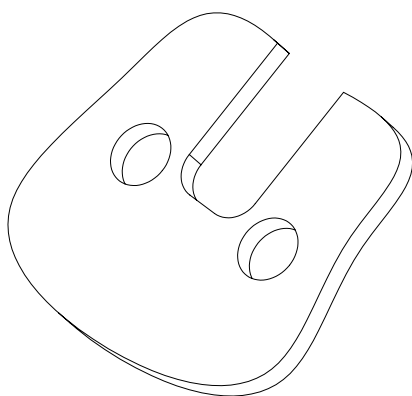


Fig. 18: Representative illustration of the top plate

6.5 ATTACHING THE SPINDLE END

The figure below provides an overview of the components required to assemble the drive at the spindle end.

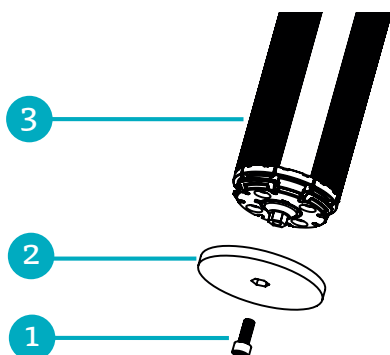


Fig. 19: Overview of the spindle end

- 1 | Mounting screw (adapted by the customer to bottom plate)

2	Bottom plate (developed by the customer using LOGICDATA design specifications)
3	Spindle attachment point

NOTICE

The design specifications for the bottom plate and the spindle attachment point are available from LOGICDATA only on request. These include dimensions and tolerances as well as notes on material selection and assembly.

CAUTION

Danger due to insecure connections

To ensure a secure connection, the bottom plate must be designed according to LOGICDATA specifications. Failure to comply will void warranty claims.

The steel spindle has an M4 thread. This fixes the drive to the bottom plate of the height-adjustable column.

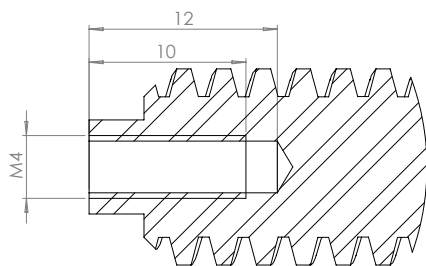


Fig. 20: Spindle end attachment point

7 SOFTWARE-DEPENDENT FUNCTIONS

NOTICE

A description of this product's software-dependent functions can be found in the manual of the accompanying LOGICDATA control box. Software-dependent functions include:

- Manual reset
- Plug detection
- Drive detection



8 INTELLIGENT SYSTEM PROTECTION (ISP)

Intelligent System Protection (ISP) is LOGICDATA's collision prevention system. It significantly reduces the risk of pinching when using LOGICDATA products. If there is an obstacle in the operating range of a table, and the obstacle and table collide, a load change affects the SLIMdrive-660s. When the load change is detected, all drives stop immediately and move back in the opposite direction for a few seconds.

There are two types of ISP:

Software ISP

Software ISP uses known system variables that are measured or calculated by each control box. Additional sensors are not necessary. This function is available with all LOGICDATA control boxes and all drives.

Sensor ISP

Sensor ISP increases the sensitivity of the collision detection.



NOTICE

You can find instructions for the activation and deactivation of ISP sensors in the manual of your chosen LOGICDATA control box.

NOTICE

The ISP sensitivity and the ISP shutdown values depend on the complete system (mechanical and electronic components). Contact LOGICDATA to determine the ISP suitability of a height-adjustable table.

NOTICE

Only one type of ISP (Software or Sensor) can be used per system.

9 DISASSEMBLY

To disassemble the SLIMdrive-660s, you must first disconnect the device from the power supply. Then, follow the assembly instructions in reverse order.



10 MAINTENANCE

DANGER

Risk of harm from the use of non-original accessory parts

Only use original accessory parts. Accessories may only be installed by qualified personnel. Failure to comply will void all warranty claims.

DANGER

Risk of harm from unauthorized repairs

You may only use original spare parts when repairing the drive. Only qualified persons are authorized to perform repairs. Contact customer services immediately in the event of a malfunction. Failure to comply will void all warranty claims.

11 TROUBLESHOOTING

If you are experiencing technical problems, please contact LOGICDATA support:

Tel.: +43 (0)3462 5198 0

Fax: +43 (0)3462 5198 1030

E-mail: office.at@logicdata.net

Always provide the product name and revision status (found on the type plate) when making a support request. If the system is defective, replace the SLIMdrive-660s.



11.1 POSSIBLE MALFUNCTIONS AND THEIR SOLUTIONS:

Problem	Possible cause	Solution
SLIMdrive-660s does not function	The control box is not connected to the mains	Plug in the mains cable of the control box
	SLIMdrive-660s linear actuator is not connected	Plug the motor cable into the control box
	Poor plug connection	Plug in the motor cable, mains cable, and hand control properly
	The control box is defective	Contact LOGICDATA
	The hand control is defective	Replace the hand control
	The SLIMdrive-660s linear actuator is defective	Replace the SLIMdrive-660s linear actuator
	An error code appears on the display of the hand control	Check the error code on the hand control display (or the click code of the control box) in the operating instructions of the control box.
SLIMdrive-660s only moves down (retracted position)	There was power failure while the device was in motion The power cable was unplugged while the device was in motion	Manual reset*
	Reset required	Perform a reset
	The SLIMdrive-660s linear actuator is defective	Replace the SLIMdrive-660s linear actuator

* If actuators only move down



NOTICE

Detailed descriptions of the error codes on hand controls can be found in the control box manual. You will also find descriptions of click codes in this document.



12 ADDITIONAL INFORMATION

12.1 TECHNICAL DATA

You can find all the relevant technical data regarding your drive in the product's data sheet.

12.2 OPTIONAL PRODUCTS



NOTICE

You can find information about available optional products in the current product catalog and at www.logicdata.net

12.3 DISPOSAL



The SLIMdrive-660s is an electrical and electronic device that must be disposed of separately from household waste according to the WEEE Directive 2012/19/EU. The products are marked with the symbol shown on the left.

Before disposing of materials and components, check if they can be recycled. Recycle as many parts as possible.

Dispose of all materials and parts in accordance with your local guidelines and regulations. Ensure that the disposal is lastingly compatible for humans and nature.

MOTION FOR YOUR LIFE

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