

SLIMdrive-660S

Document Rev0

User Manual

Inline actuator for
an electric
height-adjustable
desk

LOGIC
office



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1 Preface

Dear Customer,

Thank you for choosing a **SLIMdrive-660S** inline actuator for electric height-adjustable desks from **LOGICDATA Electronic & Software Entwicklungs GmbH**. You are now in possession of a state-of-the-art product that complies with all the relevant safety requirements.

1.1 Intended Use

SLIMdrive-660S inline actuators may only be used for the intended purpose, i.e. to assemble it into telescopic tubes for electric height-adjustable desks. Only control units which are parameterized according to the characteristic of the built-in SLIMdrive-660S inline actuators can be used for lifting operations. Corresponding control units can be ordered from LOGICDATA.

The inline actuators must be installed put into operation and their function checked by qualified personnel. Using them to control other motors or installing them in products other than electric height-adjustable desks is only permissible with the prior written consent of LOGICDATA. Their basic function is upward and downward adjustment of the desktop, which can be controlled with all the handswitches available.

1.2 SLIMdrive-660S functionality

The SLIMdrive-660S inline actuator incorporates the following features (the availability of some features depends on the SLIMdrive-660S model and the parameters of the control unit):

- Small diameter (40mm) for highest possible flexibility in terms of tube design
- Easy installation
- Integrated sensor-based ISP (Intelligent System Protection)

1.3 Target group and previous knowledge

This user manual addresses the following people:

- Technicians who assemble and put electric height-adjustable desks into operation (by installing motors and control units, configuring control units, etc.)
- Furniture assembly, service and maintenance personnel who put electric height-adjustable desks into operation in showrooms or at the customer's

The following is required for installing, operating and configuring electric height-adjustable desks with SLIMdrive-660S inline actuators:



- Basic mechanical and electrical skills (with suitable qualifications)
- Reading the user manual

1.4 Symbols used in safety instructions

This user manual contains safety instructions with symbols drawing your attention to possible dangers and residual risks. They indicate the following:



Danger: this warning symbol advises you of imminent danger to people's lives and health.
Failure to observe this warning may result in health problems, serious injuries and damage to property.



Caution: this warning advises you of **possible dangers from electric current**.
Failure to observe this warning may cause injuries and damage to property.



Note: this symbol advises you of important information regarding SLIMdrive-660S inline actuator.



Danger: this warning advises you of a possible risk of body parts being trapped or pinched in exceptional cases.
Failure to observe this warning may result in health problems, serious injuries and damage to property.



Note: You must read the user manual.

1.5 Package contents

The SLIMdrive-660S inline actuator is supplied together with the following components:

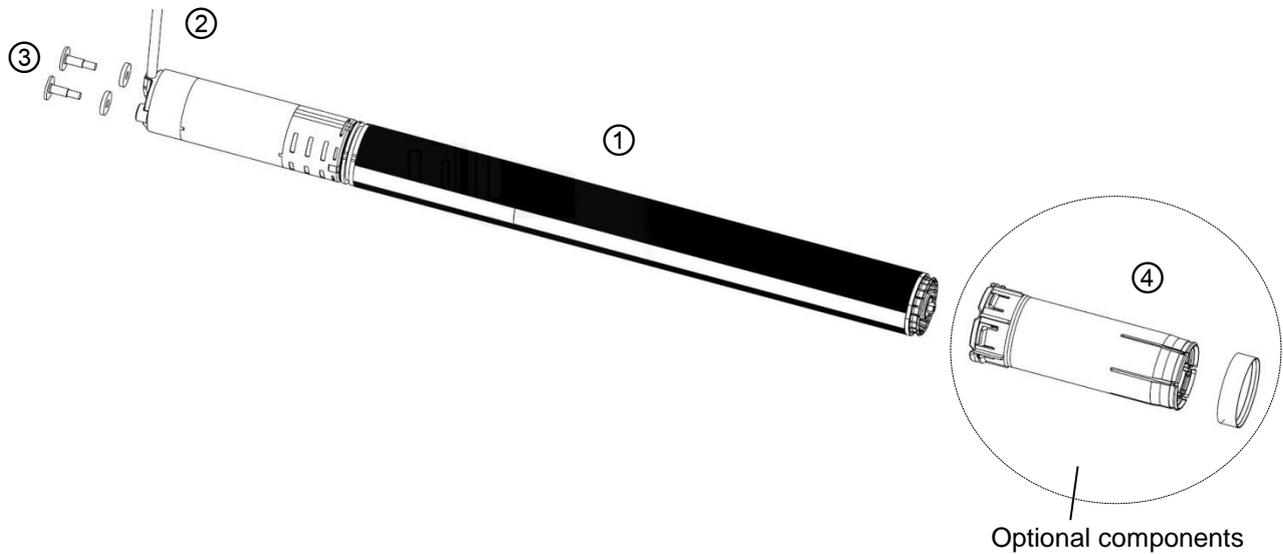


Figure 1: Package contents

- ① SLIMdrive-660S inline actuator
- ② Cable with connector (LOG-CBL-MOT-SLIMDRIVE-C00)
- ③ Two special screws with rubber washer (LOG-PRT-SD-MOUNTINGSCREW)

Depending on the built in concept (see chapter 2.6), SLIMdrive-660S inline actuator (①) can be supplied together with following optional components (④):

- tube adapter (LOG-PRT-SD-TUBEADAPTER) for thick-end-up built in concept
- sleeve (LOG-PRT-SD-SLEEVE) for tube adapter

1.6 Unpacking

The SLIMdrive-660S inline actuator comes packed in a cardboard box. To unpack, proceed as follows:

1. Remove the cardboard and plastic film from the inline actuator components.
2. Check the package contents.
3. Dispose the packaging materials.
4. Keep the user manual at hand for the operators.



Note: ensure eco-friendly disposal of the packaging materials (separate the plastic parts and cardboard for collection).



Danger: be careful that the device doesn't fall down during unpacking. There can be a possible risk of body parts being trapped or pinched. For further information regarding disposal see chapter 6.1.



Danger: do not place the device on an inclined or vibrating ground. It can fall down and can cause injuries.



Caution: when installing the SLIMdrive-660S Inline Actuator and putting it into operation, be sure that the SLIMdrive-660S Inline Actuator is acclimatized to the temperature and humidity values for operation, shown in the datasheet!

1.7 Safety instructions

This user manual contains safety instructions that draw your attention to any possible risks, thus enabling safe operation of the SLIMdrive-660S inline actuator. Please observe these warnings and instructions at all times.

In this section you will find general safety instructions that do not refer to any particular steps or procedures. You will find the work-specific safety instructions in the relevant section of the manual. Additional warnings are given on the SLIMdrive-660S inline actuator itself.

1.7.1 General safety instructions



Note: you must read the user manual carefully before installing or operating the SLIMdrive-660S Inline Actuator.



Caution: do not open the SLIMdrive-660S inline actuator under any circumstances. There is a danger of electric shock.



Caution: the SLIMdrive-660S inline actuator is not designed for continuous operation. Changing the desktop position without interruption must not exceed the duty cycle indicated on the nameplate.



Caution: the SLIMdrive-660S inline actuator may only be operated with voltage as specified on the type plate.



Caution: only use the cable supplied with the SLIMdrive-660S inline actuator. Check that it is not damaged. Do not ever operate the SLIMdrive-660S inline actuator if the cable is damaged.



Danger: it is not allowed to connect self-constructed products to LOGICDATA actuators. To prevent damage of the unit, use only components suitable for LOGICDATA motor actuators.



Danger: do not operate the device before installing.



Caution: during installing the SLIMdrive-660S inline Actuator, the device has to be disconnected from the control unit.



Caution: you have to disconnect the SLIMdrive-660S inline actuator from the control unit while uninstall the device.



Danger: in the event of a malfunction (e.g. if the control unit keeps adjusting the desk because a movement key has jammed), please unplug the control unit immediately.



Danger: do not expose the SLIMdrive-660S inline actuator to moisture, drips or splashes.



Danger: when changing the desktop position (especially without using pinch protection), there is a risk of pinching. You must therefore ensure that no people or objects are located in the hazardous area or can reach into it.



Danger: when changing the desktop position, there may in exceptional cases be a risk of pinching in spite of the safety features. You must therefore always ensure that no people or objects are located in the hazardous area or reach into it.



Danger: do not modify or make any changes to the actuators, the control unit, the controls themselves or handswitches.



Danger: do not operate SLIMdrive-660S inline actuator in a potentially explosive atmosphere.



Danger: in the event of a fault (motor or component), whenever the desktop attempts to adjust the height it may move slightly before the safety cut-out is triggered. Please note that there is a potential risk of pinching in this case.



Danger: intelligent system protection (ISP) is not enabled during all resets and limit position calibration. Please note that there is a potential risk of pinching in this case.



Danger: this device is not intended for use by individuals (including children) with limited physical, sensory or mental abilities or with a lack of experience and/or lack of expertise, unless they are supervised by a person responsible for their safety or have received instructions from that person on how to use the system.



Danger: this control unit 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 control unit in a safe way and understand the hazards involved.



Danger: children must be supervised at all times to ensure that they do not play with the actuators.



Danger: children shall not play with the appliance.



Danger: after uninstalling the SLIMdrive-660S inline actuator you have to keep the device in safe custody, so that no child has access to the device.



Caution: if the motor cable is damaged, it must be replaced by the manufacturer or customer service or similarly qualified person in order to prevent any risks.



Caution: only clean the SLIMdrive-660S inline actuator with a dry or slightly moist cloth.



Danger: ensure during mounting that there are no sharp edges (e.g. protection plate or screwing)



Danger: do not exceed the maximum lifting capacity.



Danger: it should not be possible to reach into the spindle system while the system is in operation. A protection cover for the spindle system should be mounted.



Danger: there should be no risk of pinching in the range of the protection cover.



Danger: ensure that there can be no collision with a solid object by moving up and down (e.g. projection on a wall).



Danger: ensure that the motor cable is installed correctly to avoid tripping up on the cable.



Caution: the SLIMdrive-660S inline actuator is a class III appliance and must only be supplied at safety extra low voltage corresponding to the marking  on the type plate.

1.7.2 Important notes for OEMs

What we mean by OEMs are companies that purchase SLIMdrive-660S inline actuator from LOGICDATA and install them in their own products (e.g. electric height-adjustable desks).



Note: for reasons of EU conformity and product safety, we advise you to provide users of your products with a manual in the relevant EU language.



Note: when you ship your finished products, enclose a user manual containing all the safety instructions that consumers need to handle your product safely.



Note: the user manual for your finished product must contain the following note: you must read the user manual before you operate the product (electric height-adjustable desk).

Advise your customers that the user manual must be kept at hand in close proximity to the product (electric height-adjustable desk).



Danger: conduct a risk analysis of your product (electric height-adjustable desk) so that you can respond to any potential residual risks (e.g. by changing design features or adding notes to the user manual and/or placing warnings on your product).



Note: ensure that no unauthorized individuals (e.g. small children, people under the influence of drugs, etc.) can tamper with your product or the control unit.

1.7.3 Important notes for service



Danger: only use original accessories. Parts may only be replaced by qualified service technicians, otherwise the warranty/guarantee shall be null and void.



Danger: in the event of a fault, please contact customer service immediately. Only original spare parts may be used for repairing the control units. Parts may only be replaced by qualified service technicians, otherwise the warranty/guarantee shall be null and void.



Danger: incorrect handling with SLIMdrive-660S inline actuator is not allowed! Read this manual carefully for information in handling, maintenance and operation instructions!

2 SLIMdrive-660S installation instructions

2.1 Actuator dimensions

The drawing in Figure 2 shows the SLIMdrive-660S inline actuator's dimensions in max. retracted and max. extended position. The maximum stroke of the actuator is given with 664mm.

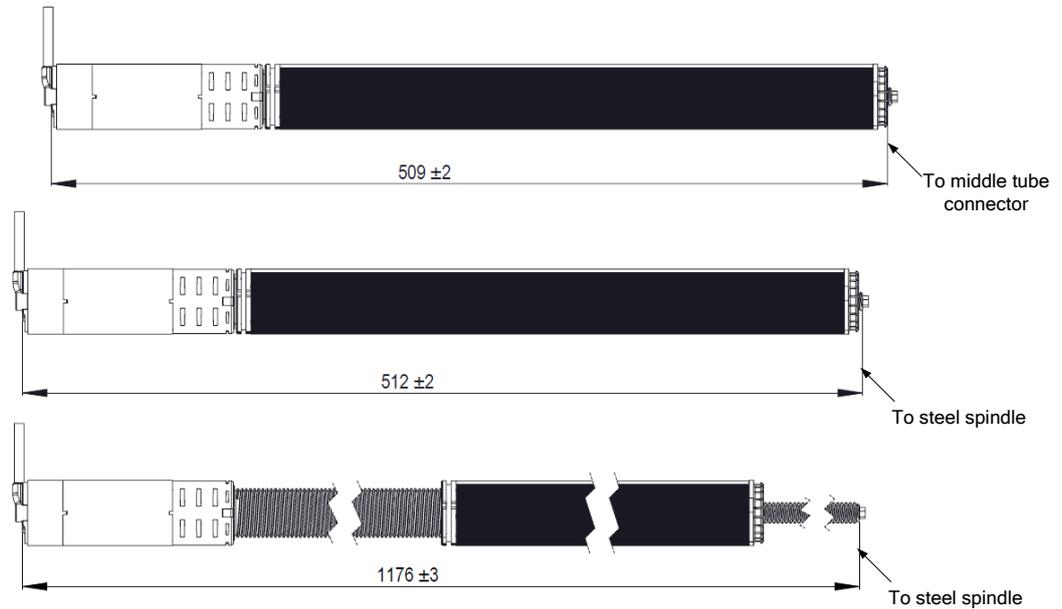


Figure 2: Overall dimensions of SLIMdrive-660S actuator in retracted and extended position

2.2 SLIMdrive-660S Setup before installation

2.2.1 Set up of the spindle system

Before installing the SLIMdrive-660S inline actuator into a tube system, the spindle positions have to be adjusted as described below.

The aluminum tube:

1. Tighten SLIMdrive-660S's aluminum tube counterclockwise until it reaches the end position
2. Now untighten it for approx. 1/4 turn (approx. 1.25mm from end position, see Figure 3)

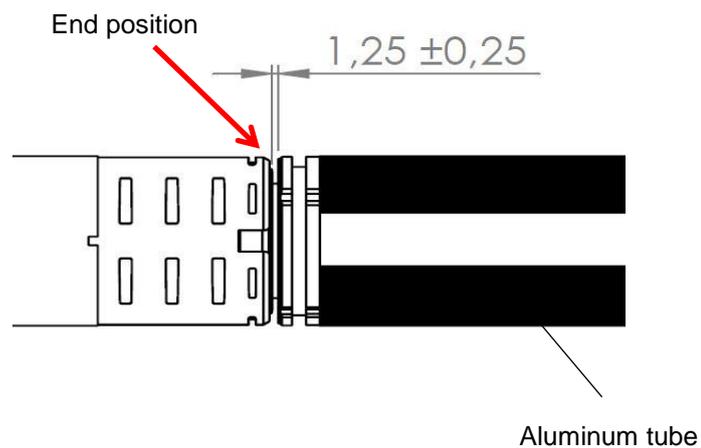


Figure 3: SLIMdrive-660S setup description for aluminum tube

The steel spindle:

1. Tighten the steel spindle clockwise until it reaches the position like it's shown in Figure 4
2. Take care that the spindle positions are not changed during assembling

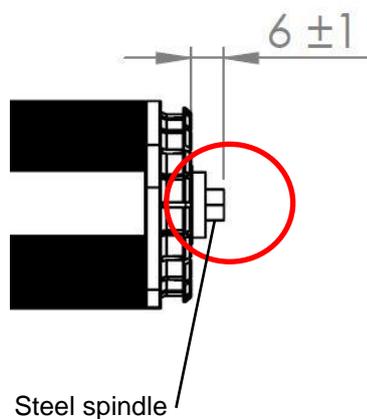


Figure 4: SLIMdrive-660S setup description for steel spindle



Danger: noncompliance of the instructions above can result in damage of SLIMdrive-660S!



Note: LOGICDATA recommends using a gauge to check the SLIMdrive-660S length before installation.

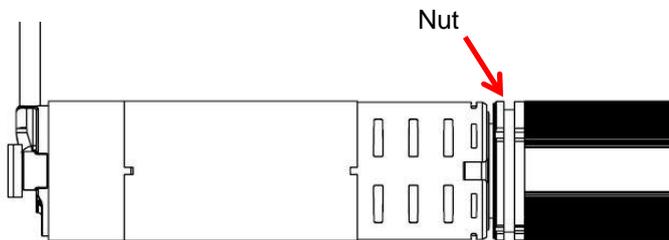


Note: in order to use the full stroke provided by the actuator it is necessary that the tube system is designed for the installation length defined in Figure 2. It is necessary that the actuator reaches its end (block) position before one of the tubes does.

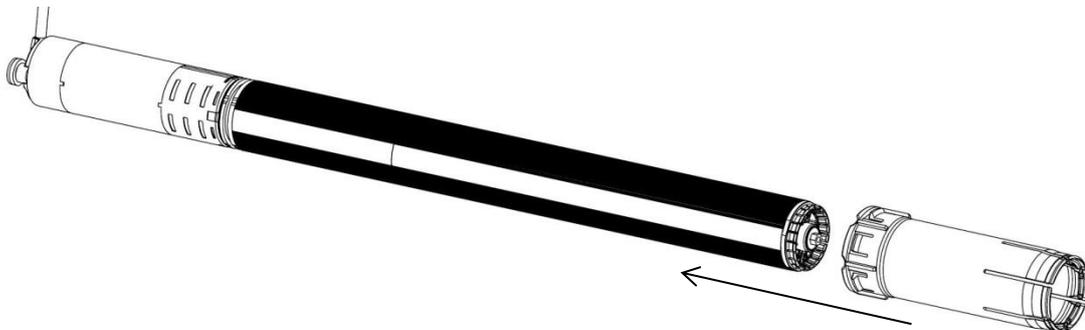
2.2.2 Set up of the tube adapter

As an option, the SLIMdrive-660S inline actuator can be ordered with separately delivered tube adapter and sleeve. In this case, the tube adapter needs to be mounted on the SLIMdrive-660S by qualified personnel. Please make sure that you follow the installing instructions below for both parts carefully:

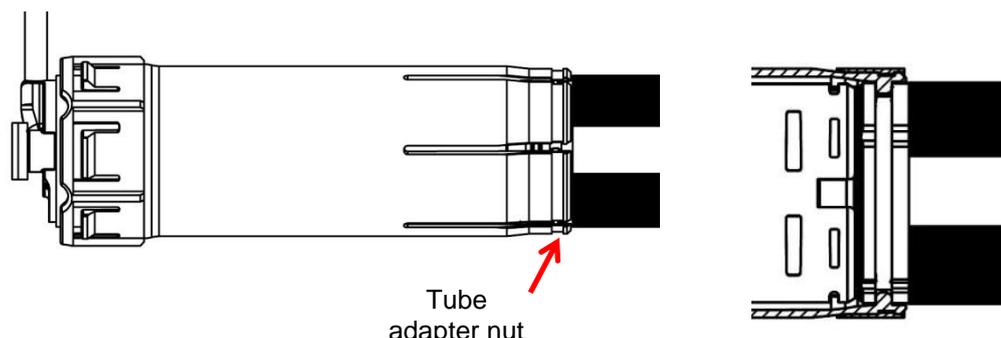
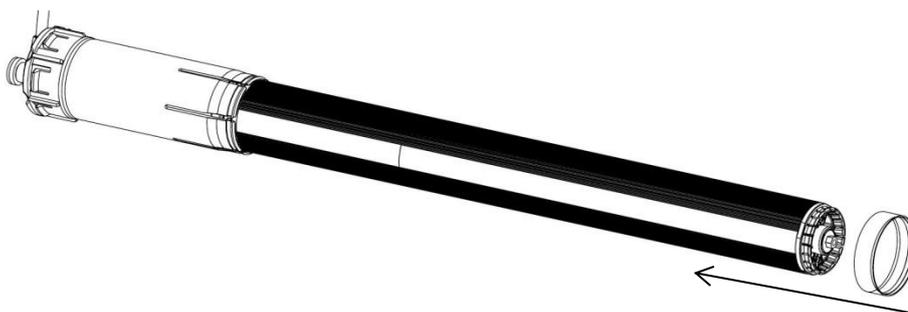
1. Grease the nut at the actuator to obtain good gliding characteristics between tube adapter and the actuator. If you need recommendations for suitable grease types please contact LOGICDATA.



2. Assemble the tube adapter from the steel spindle side at the nut. Make sure that all flaps of the tube adapter are snapped at the actuator's nut correctly.



3. Mount the sleeve at the tube adapter. Make sure, that the sleeve's inner ring is snapped at the tube adapter's nut like shown in the picture below.



4. Test the rotation characteristics of the tube adapter after assembling. There must be a smooth and quiet rotation.

2.3 Overview of the different interfaces

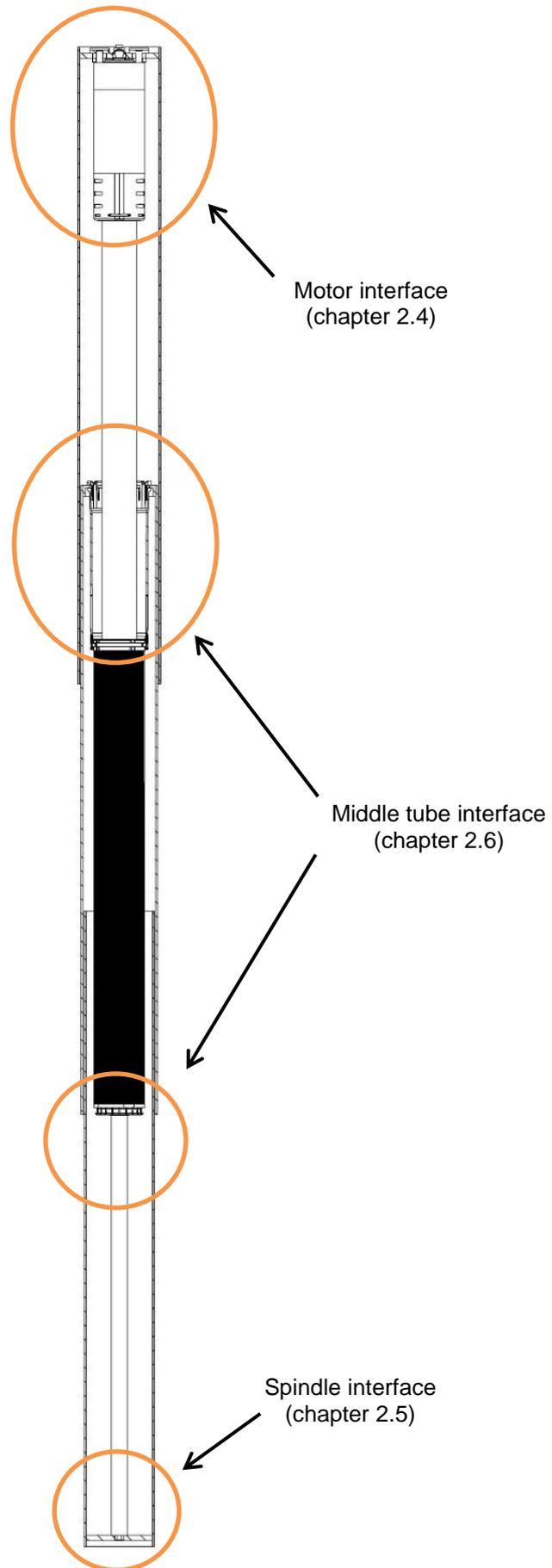


Figure 5: Interfaces to the telescopic leg system

2.4 Motor interface

Figure 6 gives an overview of the components needed to assemble the actuator at the motor interface.

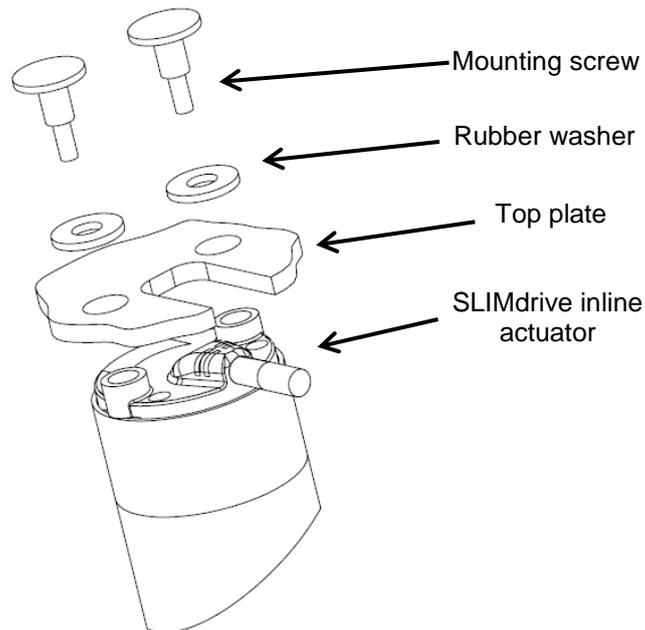


Figure 6: Assembling of the motor interface



Caution: make sure that the cable is not being damaged during the assembling process

2.4.1 Top plate design

Figure 7 shows a proposal for the top plate design. In order to guarantee the functionality of the optionally integrated ISP Sensor (see chapter 4 for detailed information), the thickness of the plate has to be within the tolerances shown in the figure below.

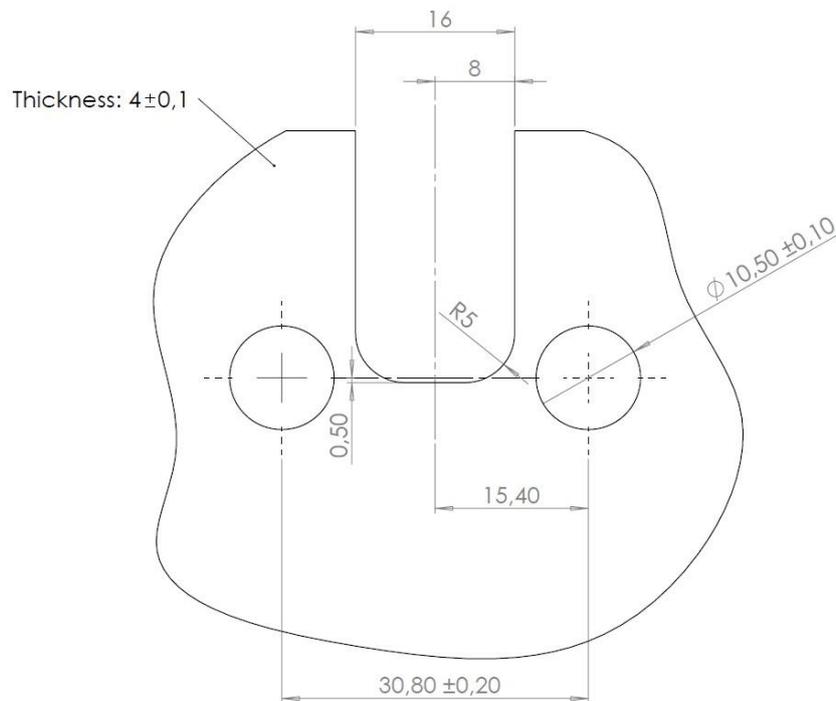


Figure 7: Top plate dimensions

2.4.2 Mounting screws

At the motor interface, the actuator is fixed to the leg using two special thread forming tapping screws. The screws are delivered together with the actuator and have pre-assembled rubber washers under the screw head. The screws have to be tightened until the screw shoulder comes in contact with the motor housing (see Figure 8). The recommended tightening torque is at least 2.5 Nm.

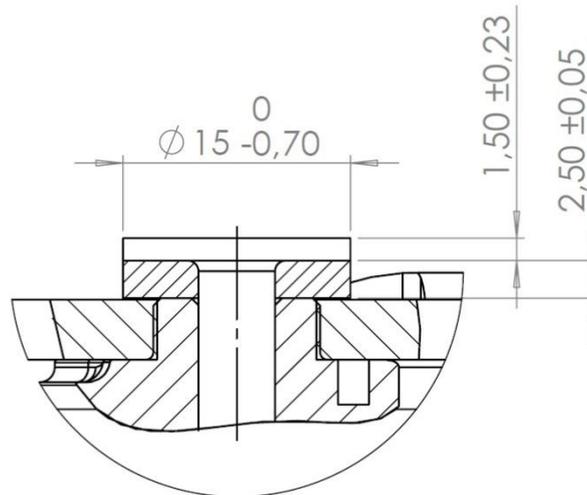


Figure 8: Mounting screws



Note: Missing rubber washers can increase the noise emissions of the leg and have a negative influence on the ISP functionality.



Note: the SLIMdrive-660S can be mounted only once with the mounting screws, otherwise proper tightening cannot be guaranteed.

2.5 Spindle interface

Figure 9 gives an overview of the components needed to assemble the actuator at the spindle interface.

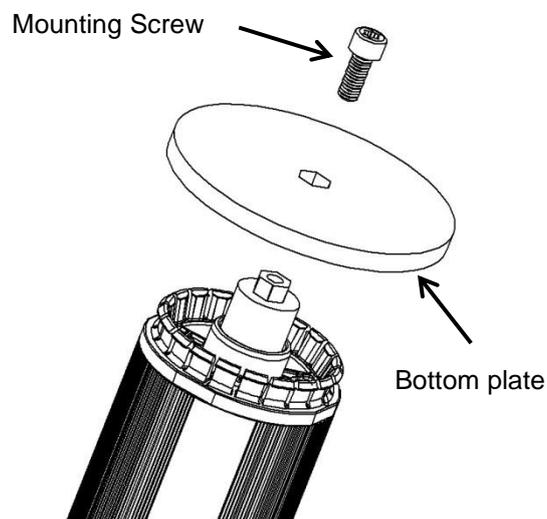


Figure 9: Assembling of the spindle interface

2.5.1 Bottom plate design

Figure 10 shows a proposal for the bottom plate design. The hexagon shape on the plate supports the torque which acts on the steel spindle. In order to have a safe connection, LOGICDATA recommends not exceeding the tolerances shown in the figure below.

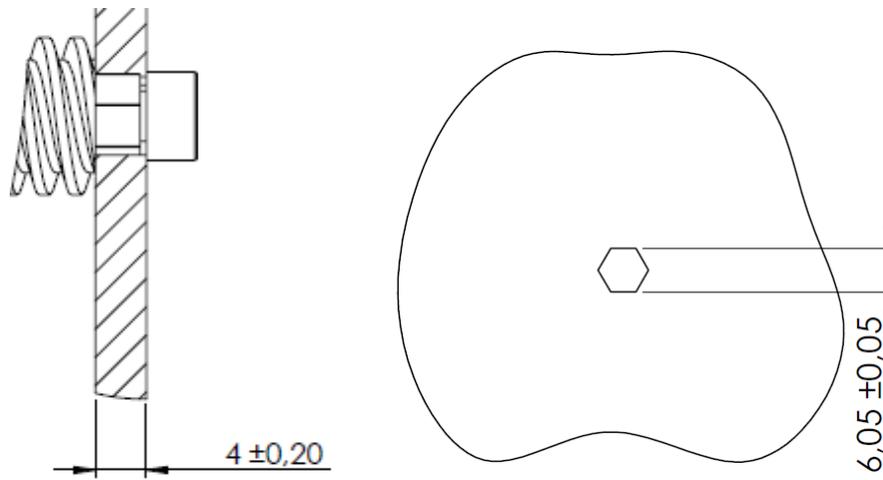


Figure 10: Bottom plate design

2.5.2 Mounting screws

The steel spindle has an M4 thread which can be used to fix the actuator to the leg.

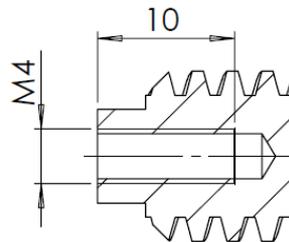


Figure 11: Thread dimensions

2.6 Middle tube interfaces

The SLIMdrive-660S inline actuator is designed for the application in a three stage synchronized tube system. Therefore it is necessary to connect the actuator to the middle tube of a telescopic leg. Depending on the type of leg design, different installation requirements have to be taken into account. In this document the leg types are characterized as follows (see also drawings in Figure 12 and Figure 13):

1. **Thick-end up installation** (installation instructions are given in chapter 2.6.1): this version has the thickest tube of the telescopic leg on the top (tabletop)
2. **Thick-end down installation** (installation instructions are given in chapter 2.6.2): this version has the thickest tube of the telescopic leg on the bottom (floor)



Note: For the installation in thick-end-up leg systems an additional tube adapter is required. This part can be ordered separately or pre-assembled on the actuator.

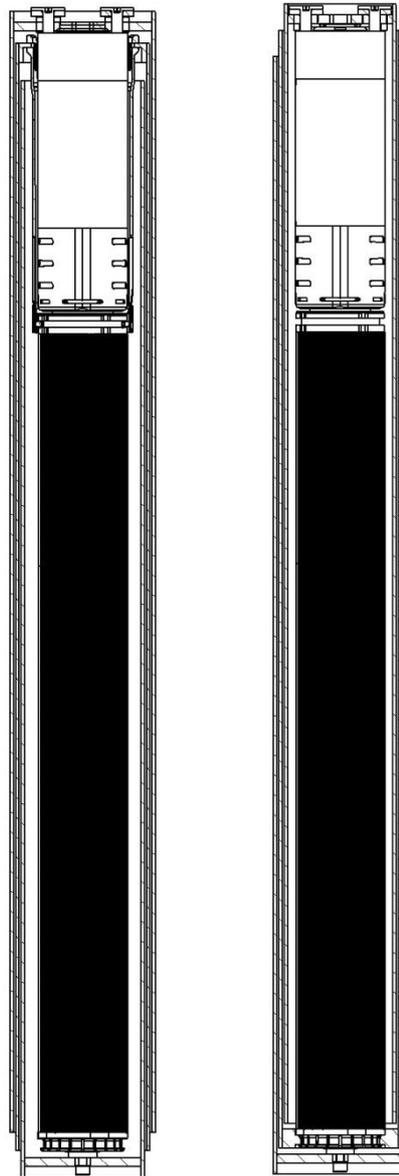


Figure 12: Comparison of a thick-end-up (left) and thick-end-down leg (right) in the most retracted position. The part highlighted in red shows the connection to the middle tube.

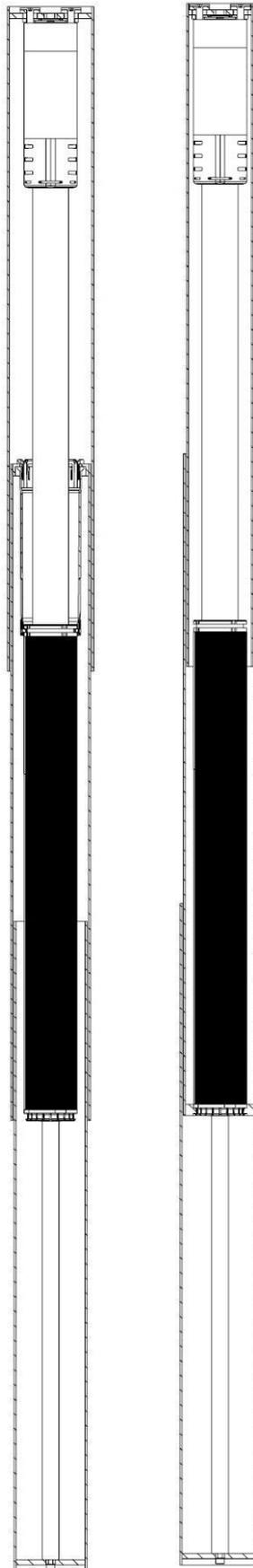


Figure 13: Comparison of a thick-end-up (left) and thick-end-down (right) leg in the most extracted position. The part highlighted in red shows the connection to the middle tube.

2.6.1 Thick-end-up installation

In order to use the SLIMdrive-660S inline actuator in thick-end-up applications, an additional tube adapter (LOG-PRT-SD-TUBEADAPTER) is required. This adapter connects the actuator over a special counterpart to the middle tube. Figure 14 shows a design proposal for a leg counterpart with all important dimensions and tolerances.



Note: Please contact LOGICDATA for additional assembling instructions and questions regarding material selection of the counterpart.

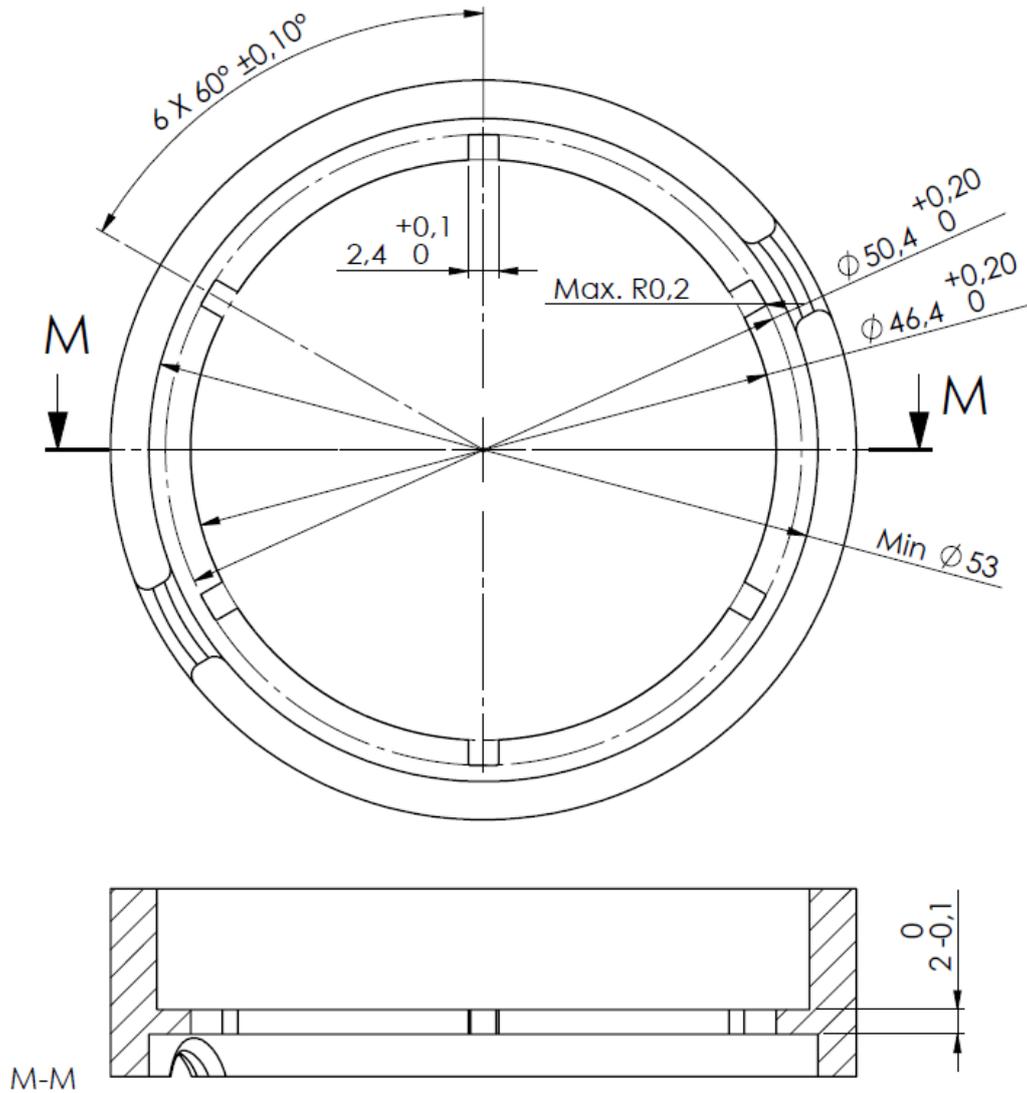
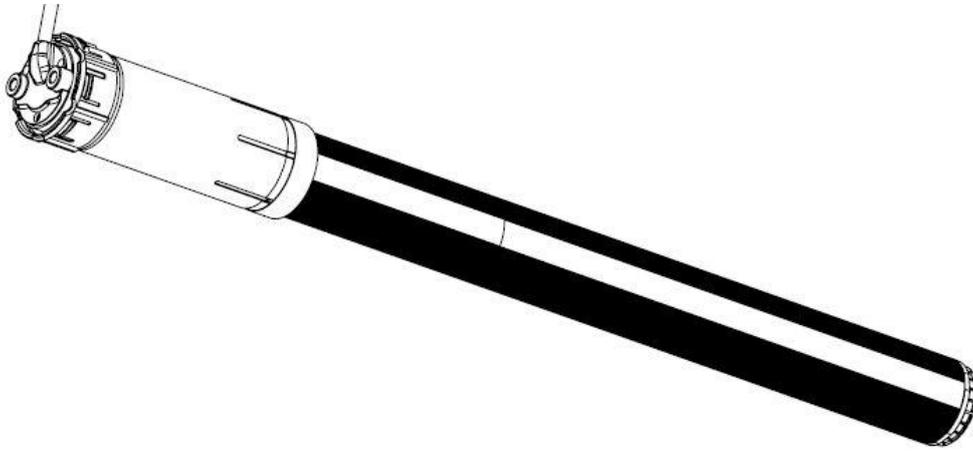


Figure 14: Middle tube counterpart for thick-end-up installations

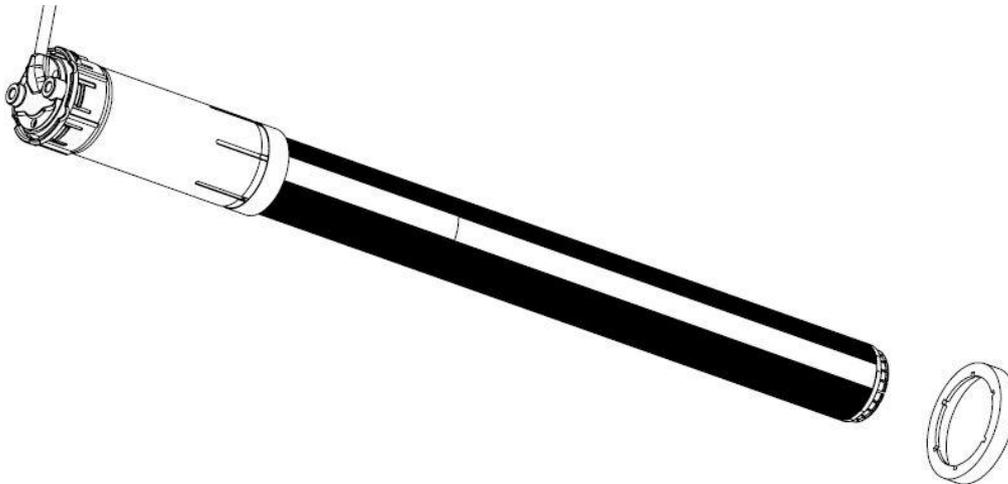
Assembly instructions:

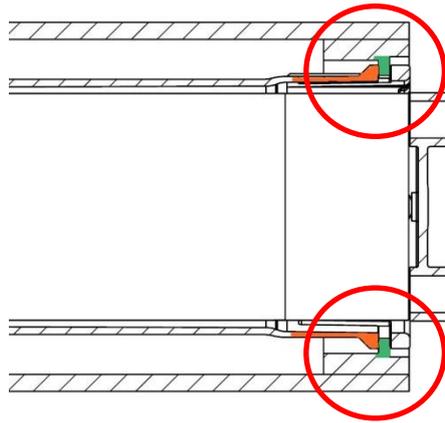
LOGICDATA recommends the following assembly procedure for the thick-end-up installation:

1. Take the SLIMdrive-660S inline actuator with pre-assembled tube adapter and sleeve. Make sure that all points which are described in chapter 2.2 are set correctly!

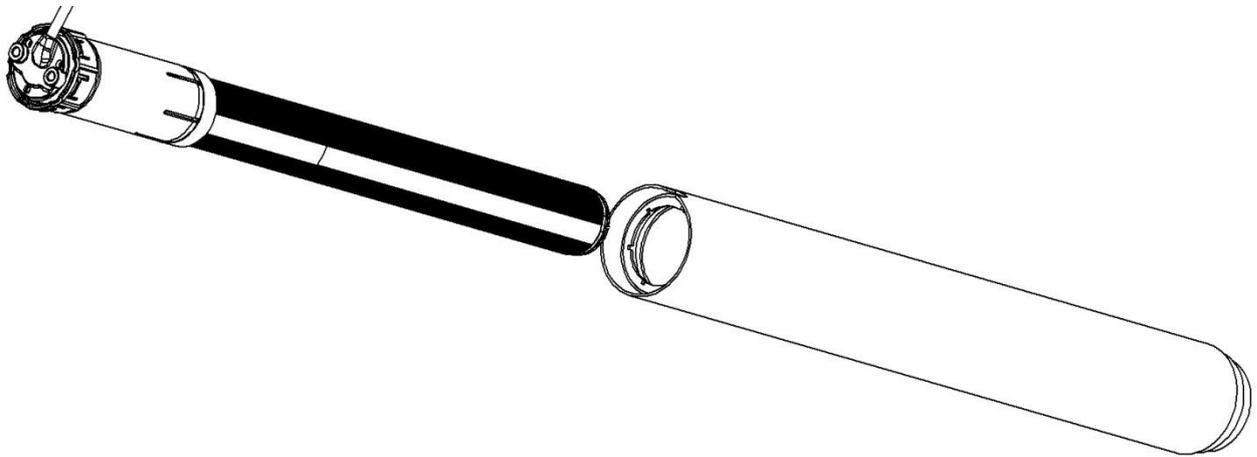


2. Assemble the counterpart at the tube adapter. Pay attention that all flaps of the tube adapter are snapped correctly at the counterpart! Make sure that all dimensions of the adapter are the same as shown in Figure 14!

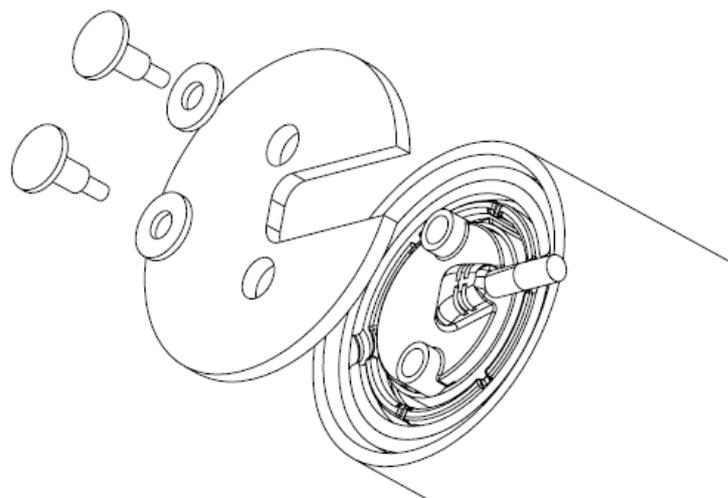




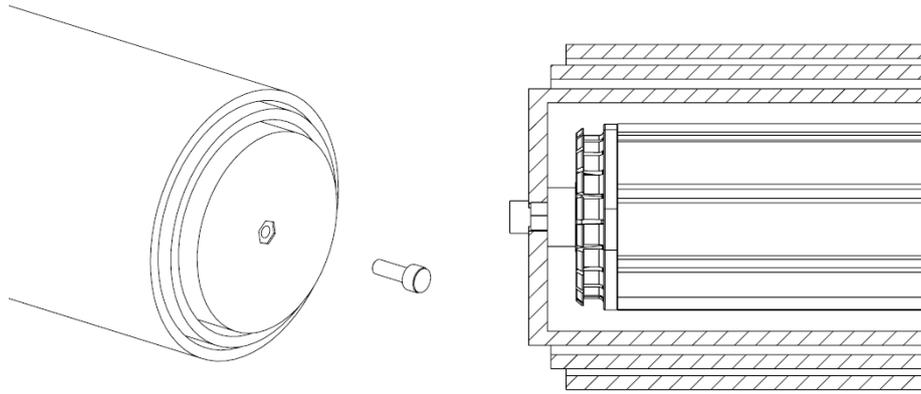
-
3. Install the actuator with counterpart adapter in the middle tube.



-
4. Assemble the top plate on the motor side of the actuator– see chapter 2.4 for further information.



5. Assemble the steel spindle at the tube – look at chapter 2.5 for further information.



2.6.2 Thick-end-down installation

For this installation option the actuator is directly attached to a counterpart, which has to be fixed to the middle tube. A design proposal for this interface part is shown in Figure 15. Since there is a relative movement between the actuator and the counterpart, it is necessary to pay special attention on tolerances, surface qualities and material selection. LOGICDATA recommends using POM materials for the counterpart.



Note: Please contact LOGICDATA for additional assembling instructions and questions regarding material selection of the counterpart.

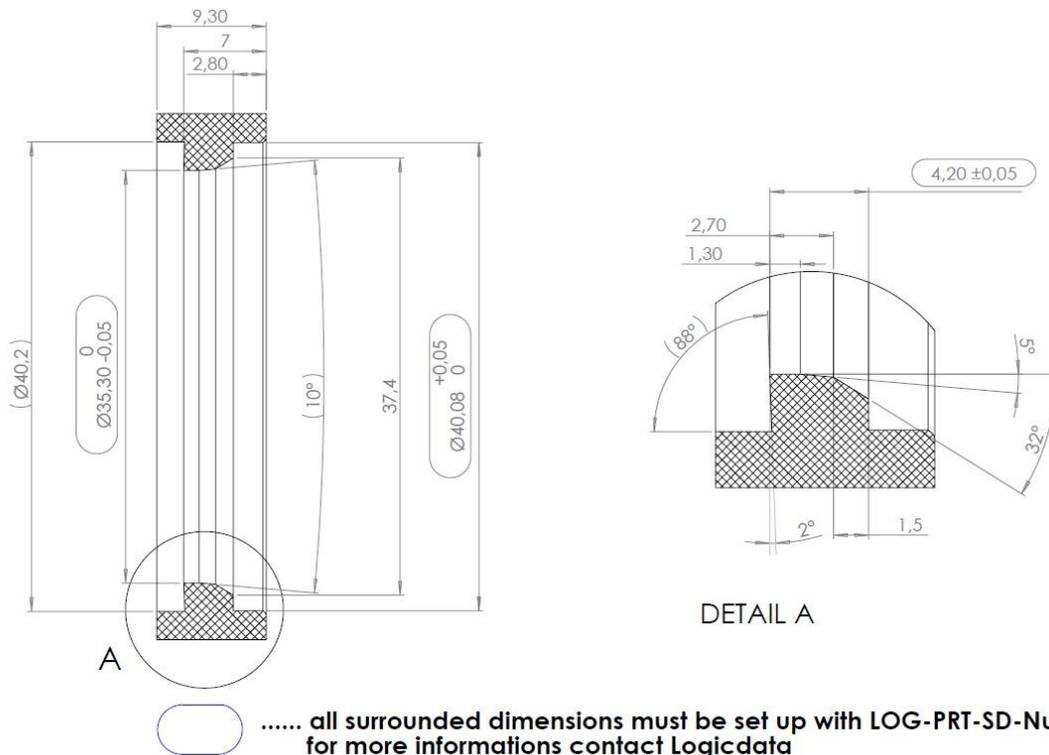


Figure 15: Middle tube counterpart for thick-end-down installations

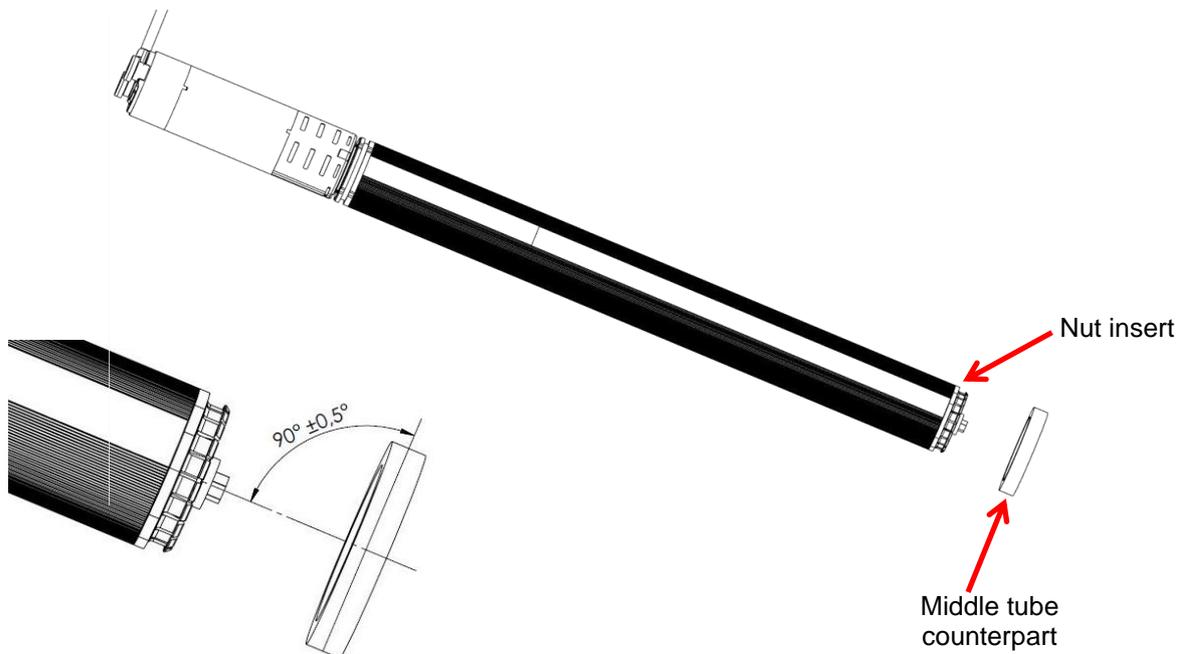
Assembly instructions:

LOGICDATA recommends the following assembly procedure for the thick-end-down installation:

1. Make sure that all points which are described in chapter 2.2 are set correctly!



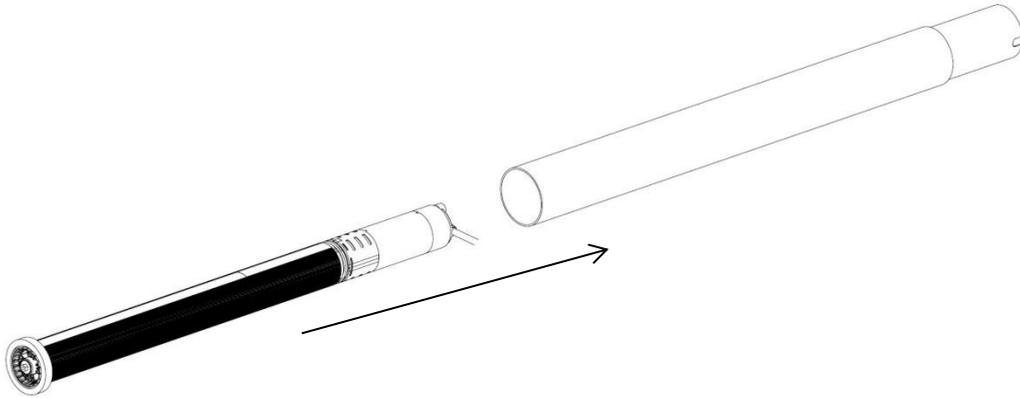
2. Install SLIMdrive-660S inline actuator to the middle tube counterpart, make sure that you fulfill all the following points during assembly:
 - i. grease the nut insert to obtain good gliding characteristics – if you need recommendations for suitable grease types please contact LOGICDATA
 - ii. assemble the counterpart with the aid of a jack vertical to the SLIMdrive-660S nut insert
 - iii. make sure that the locking hook of the nut insert are set correctly - there must not be any broken flap after assembling



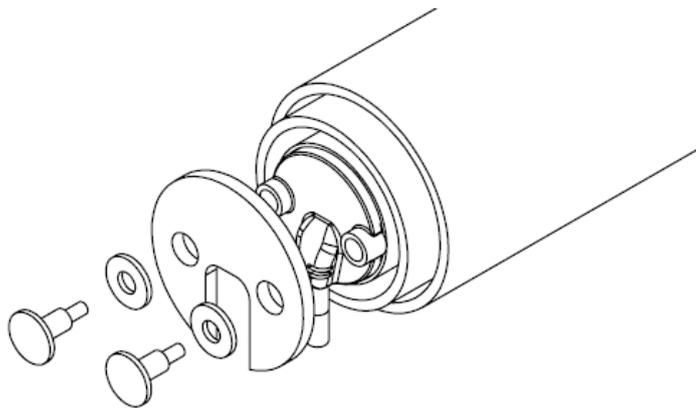


Note: the SLIMdrive-660S nut insert is designed for one-time installation of a counterpart.

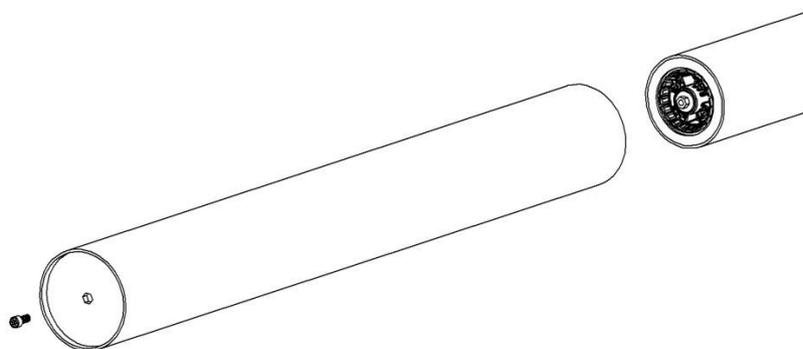
3. Assemble the actuator incl. adapter into the tube



4. Mount the top plate at the motor side of the actuator– look at chapter 2.4 for further information.



5. Assemble the steel spindle at the tube – look at chapter 2.5 for further information



2.6.3 Drop-In assembly

This assembly of the SLIMdrive-660S actuator is carried out with pre-assembled tubes where the counterpart is already mounted inside the middle-tube. An example of a counterpart design is shown in chapter 2.6.2 in Figure 15. Due to the relative movement between actuator and counterpart, it is mandatory to observe the necessary tolerances, surfaces and material selection. LOGICDATA recommends POM materials for the counterpart.



Note: please contact LOGICDATA for additional assembly information and regarding material selection for the counterpart.

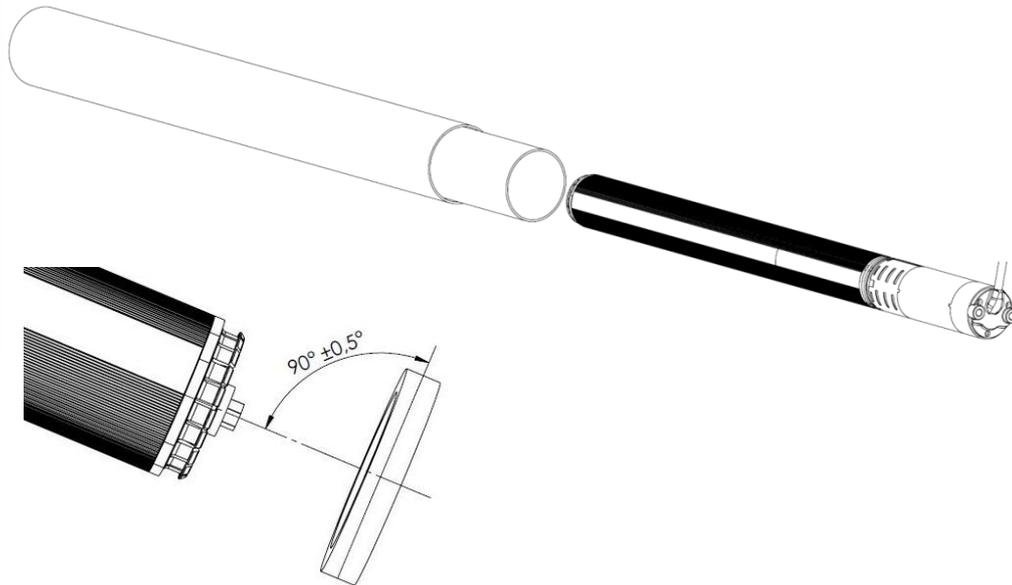
Assembly instructions:

LOGICDATA recommends the following assembly procedure for the thick-end-down drop-in assembly:

-
1. Follow the steps shown in chapter 2.2 carefully!

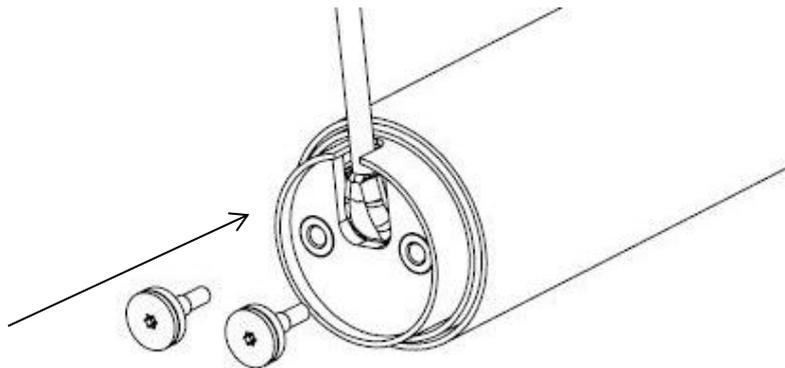


2. Mount the SLIMdrive in the pre-assembled tubes. Follow the following steps carefully:
 - i. Apply grease on the nut insert for proper gliding characteristics. The snap-teeth shall also be greased. Please contact LOGICDATA for recommended grease types.
 - ii. Mount the counterpart perpendicularly to the nut insert of the SLIMdrive, using an appropriate fixture. Take care that angle tolerance of $90^\circ \pm 0.5^\circ$ is met.
 - iii. The insertion force shall not be more than 1200N and not less than 700N. Control the insertion process by a distance measurement device.

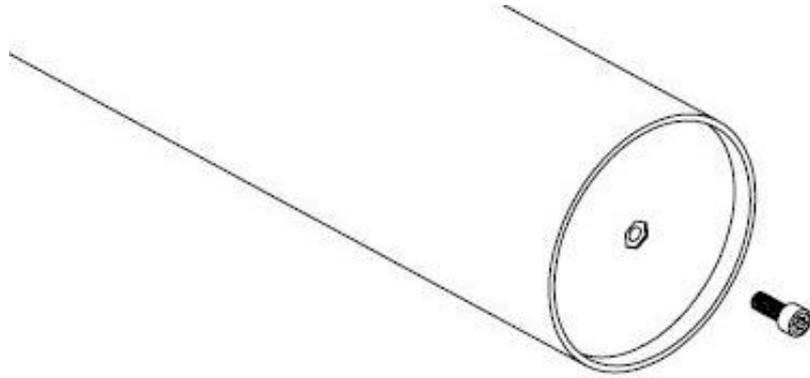


Note: the nut insert of SLIMdrive for one insertion/assembly process.

3. Assemble the top plate on the motor side of the actuator– see chapter 2.4 for further information.



-
4. Assemble the steel spindle at the tube – look at chapter 2.5 for further information



2.7 Additional advice

To ensure running smoothness it is necessary to adjust the interfaces between SLIMdrive-660S and the tube guiding system (as shown in the chapters 2.4 to 2.6) so that they are aligned properly. Figure 16 shows the tolerances recommended by LOGICDATA at the interfaces between SLIMdrive-660S and the guiding system. For detailed information, please contact LOGICDATA.

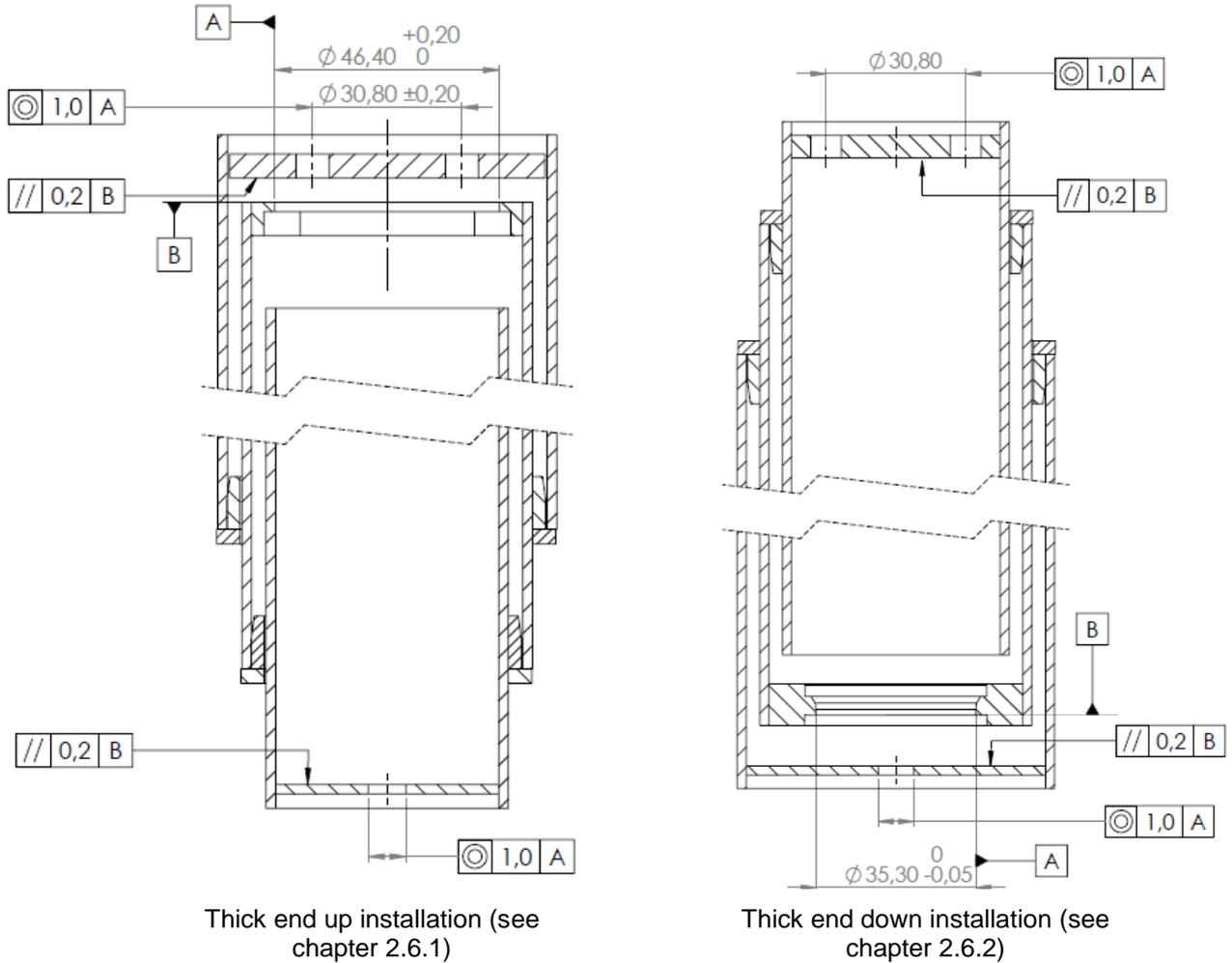


Figure 16: Middle tube assembling

3 Software dependent functions

3.1 Manual Reset

When the actual desktop position no longer corresponds to the height displayed or you wish to use a configured control unit on another identical electric height-adjustable desk, you have to reset the lowest desktop position to the minimum height.

1.  Press the **desktop down key**.
Keep pressing it until the desktop has reached the lowest position (programmed desktop position).
2.  Press the **desktop down key** again and keep pressing it.
After about 5 seconds, the desktop will slowly move further down until it reaches the absolutely lowest desktop position possible.
3. Release the **desktop down key**. The electric height-adjustable desk can now be used again normally.



Danger: intelligent system protection (ISP) is not enabled during all resets and limit position calibration. Please note that there is a potential risk of pinching in this case.



Note: this function is available for both motor groups separately. Please read the manual of the used handswitch to see which buttons are linked to which motor group!

3.2 Plug detection

LOGICDATA control boxes can detect whether a SLIMdrive-660S is plugged into the relevant motor socket. If a motor is missing or if it is replaced, the control unit will click three times. Additionally the corresponding error code will be displayed if the handswitch is equipped with a display (For the error code list, see chapter 5.2). To rectify the error, proceed as follows:

1. **Possible situations:**
 - A motor is disconnected from the control unit when the control unit is connected to mains.
- 
- The error code **E36, E37 or E38** is shown on the display, depending on the disconnected motor.
2. Disconnect the mains supply of the control unit and wait at least 5 seconds.
 3. Re-connect the missing motor.
 4. Connect the mains supply of the control unit again.
 5. Make a **manual reset** (see chapter 3.1).



Note: the availability of the plug detection feature is depending on the motor group settings in the software parameters of the control unit and on the used motors. Please contact LOGICDATA for further information!

3.3 Auto Detect Number of Drives

LOGICDATA control boxes are able to auto-detect the number of connected SLIMdrive-660S actuators, this enables you to decide during the commissioning process of the electric height-adjustable desk if for instance a 2 leg desk or a 3 leg desk shall be controlled without changing the parameters. To operate the SLIMdrive-660S Inline Actuator after changing the motor group configuration again, proceed as follows:

1. **Possible situations:**
 - Commissioning/first usage of control box
 - After a reset to factory settings (S0 menu)



The error code **E70** is shown on the display.

2. Disconnect the mains supply of the control unit and wait at least 5 seconds.
3. Connect the desired number of SLIMdrive-660S to the control unit
4. Connect the mains supply of the control unit again.
5. Make a **manual reset** (see chapter 3.1).



Note: the availability of the auto-detection feature is depending on the motor group settings in the software parameters of the control unit and on the used motors. Please contact LOGICDATA for further information!

4 Intelligent System Protection (ISP)

ISP is an electronic state-of-the-art protection system developed by LOGICDATA. It also substantially reduces the risk of fingers being trapped or pinched. ISP is a software function inside control unit and can be combined with an optional sensor inside SLIMdrive-660S. If there is an obstacle in the operation area of the desk and it gets in contact with it, the force on the SLIMdrive-660S changes. This change of the force is detected by the electronics, all actuators are stopped immediately and will move in the opposite direction for a few seconds.



Note: check the order code of the used SLIMdrive-660S to check whether the ISP sensor is built in.



Note: to make sure the ISP sensor is working properly, you must install a top plate like it's shown in chapter 2.4!



Danger: in spite of **ISP** being in place, there may still be a risk of pinching in exceptional cases, as it is not only the control unit, but also the interaction between all the components in the electric height-adjustable desk that is responsible for cutting out the motor. In addition, the mechanical components, motor and ambient conditions all affect cut-out sensitivity.

As the control unit manufacturer, **LOGICDATA** does not have an effect on this residual risk and cannot therefore accept any liability.



Note: the ISP-sensitivity and the ISP-cutoff value depend on the whole system (mechanical and electrical components). To evaluate the ISP-capability of a height adjustable table, please contact LOGICDATA!



Note: the ISP-cutoff can be adjusted by control unit parameters.

4.1 Activate ISP sensors



Note: the sensor inside SLIMdrive-660S must be chosen by parameters in the control unit.



Note: within the first motor group, only SLIMdrive-660S with either ISP Sensors or with ISP sensors are allowed, so you cannot mix SLIMdrive-660S with and without ISP Sensor.



Caution: the power cord must be unplugged while all other electrical connections (to motors, sensors, handswitch, etc.) to the control unit are being set up!

1. Disconnect the mains supply from the control unit that is **in its factory settings**.
2. Connect the SLIMdrive-660S actuators to the control unit.
3. Re-connect the mains supply to the control unit.
4. Wait at least 5 seconds after connection the mains supply. **During this time, do not press any key on the handswitch!** The sensor is recognized by the control unit and the safety system will be activated. You will hear an audible double click when the control unit and the safety system are operable.

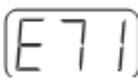


Note: if the control unit is parameterized for “Reset at first use” for commissioning, the reset has to be performed before the safety system is activated by the control unit.

4.2 Deactivate sensors

SLIMdrive-660S sensors can be deactivated by the user. For example, this can be used if the sensor is defective.

To deactivate the SLIMdrive-660S sensor, proceed as follows:

1.  The error code **E71** is shown on the display.
2.  Press and hold the **desktop up key** for at least 5 seconds.
4. You will hear an audible double click to confirm that the external sensor is disconnected and deactivated.



Danger: deactivating the sensor causes a higher risk of pinching. Other anti-pinch mechanisms like **Software ISP** stay active.

As the control unit manufacturer, LOGICDATA does not have an effect on this residual risk and cannot therefore accept any liability.

Please follow the safety instructions in the manual and treat our product with due care.

5 Appendix

In this section you will find detailed information on possible faults and remedies.

5.1 Possible faults and remedies

SLIMdrive-660S is not working

Possible cause	Remedy
Power cord of control unit is not connected	Plug the power cord into the control unit
SLIMdrive-660S's are not connected	Plug the motor cables into the control unit
Poor plug contact	Plug the motor cables, power cord and handswitch in properly
Control unit is defective	Contact customer service
Handswitch is defective	Replace the handswitch
SLIMdrive-660S is defective	Replace SLIMdrive-660S
An error occurred	Check error code on handswitch display or click code of control unit, see the full error code list with remedies in the control units user manual

SLIMdrive-660S runs only downwards (towards retracted position)

Possible cause	Remedy
Mains power breakdown or mains power is plugged off during movement	Manual Reset
Reset is necessary	Perform a Reset
SLIMdrive-660S is defective	Contact customer service

5.2 Error messages on the handswitch display

Code	Description	Remedy
24	Overcurrent Motor M1	Remove jammed objects from the driving area. Desk might be overloaded → Remove load from desk. Contact customer service
25	Overcurrent Motor M2	
26	Overcurrent Motor M3	
48	Overcurrent Motor Group 1	
49	Overcurrent Motor Group 2	
60	Collision protection	
62	Overcurrent Control Unit	
36	Plug detection in Motor socket M1	
37	Plug detection in Motor socket M2	
38	Plug detection in Motor socket M3	
61	Actuator changed	Remove load from desktop. Reset all motors. If error occurs after reset again, contact customer service.
55	Synchronization lost motor group 1	
56	Synchronization lost motor group 2	
70	Motor configuration changed	See chapter 3.3
71	Anti-Pinch configuration changed	See chapter 4 to activate or deactivate sensors

6 Further information

6.1 End of life disposal

When you no longer require the SLIMdrive-660S Inline Actuator, please note the following for disposal:



Note: The SLIMdrive-660S is electrical or electronic equipment according to directive 2002/96/EC and therefore marked with the symbol depicted on the left.



Note: ensure eco-friendly disposal of all the control unit components (separate the plastic and electronic parts for collection).

Also ensure eco-friendly disposal of all the other components (drives, cables, etc.).



Note: this product is RoHS compliant according to directive 2002/95/EC!



Note: this product is REACH compliant according to directive 2006/121/EC (Edict 1907/2006)

6.2 Technical data



Note: you can find the technical data of your SLIMdrive-660S Inline Actuator in the appropriate datasheet.

6.3 Optional products



Note: information about available optional products can be found in the latest product catalogue and on the website www.logicdata.at .

6.4 Manufacturer

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