



# LOGICDATA DMDinline D Height Adjustable Desks Components Instruction Manual

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## DMDinline D Height Adjustable Desks Components



## **DMDinline D Operating Manual**

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## **INTRODUCTION**

The product documentation consists of this manual and a datasheet.

This document is intended to enable the assembly personnel to work safely with the DMDinline D actuator.

The assembly personnel must therefore always have the complete documentation available. The document must be complete and in a perfectly legible condition. Follow the instructions in this document to avoid hazards and to prevent damage to the DMDinline D.

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 and completeness.

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Systems.




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### 1.4 SYMBOLS AND SIGNAL WORDS USED

Safety Notices contain both symbols and signal words. The signal word indicates the severity of the hazard.

 <b>WARNING</b>	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
 <b>CAUTION</b>	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
<b>NOTICE</b>	The label NOTICE indicates a situation that will not lead to personal injury, but could lead to damage to the product or the environment.
 <b>NOTICE</b>	Damage due to electrostatic discharge (ESD)

## SAFETY

### 2.1 GENERAL SAFETY REGULATIONS AND OBLIGATIONS

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

- The DMDinline D actuator may only be operated 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 DMDinline D actuator without written approval from LOGICDATA.
- In the event of malfunction or damage, the DMDinline D actuator must be replaced immediately.
- Do not attempt to repair the actuator yourself.
- Hardware replacement is only allowed in a de-energized state.
- For the operation of the system, the national worker protection conditions and the national safety and accident prevention regulations apply.

#### **WARNING** Hazard from electric shock

The LOGICleg is designed as IEC Class III equipment. Unauthorised use of voltages higher than those specified than will result in death or serious injury from electric shock, fire or other malfunctions. See Nameplate or Datasheet for detailed information.

- Use only within the rated voltage range
- Use only with the manufacturer's original parts

### 2.2 QUALIFIED PERSONS

The DMDinline D may only be installed and commissioned by qualified persons who are authorized for installation planning, installation, commissioning or maintenance/servicing and who have read and understood the DMDinline D documentation. Qualified persons have the necessary 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 through their education, work experience and recent professional activity.

They know and adhere to the basic regulations on occupational safety and accident prevention and the basic norms and specialist standards applicable to the specific application.

### **2.3 LIABILITY**

The products comply with the applicable state of the art health and safety regulations. Nevertheless, dangers can result from incorrect operation or misuse.

LOGICDATA is not liable for damages caused by:

- Improper use of the products
- Disregard of the documentation
- Unauthorized changes to the products
- Improper work on and with the DMDinline D
- Operating a damaged product
- Wear parts
- Improperly performed repairs
- Unauthorized, improper change of operating parameters
- Disasters, external influence and force majeure

Responsible for the LOGICDATA products in the specific application and compliance with the relevant directives, standards and laws is the manufacturer of the height-adjustable tables in which the LOGICDATA products are installed. LOGICDATA shall not be held liable for any damage that is directly or indirectly attributable to the delivery, performance or use of this document. Each reseller must take into account the relevant safety standards and guidelines for his product in which the DMDinline D is installed.

## **PRODUCT**

### **3.1 DESCRIPTION**

The DMDinline D is an actuator for electrically height-adjustable tables. It is installed by the customer in a column for electrically height-adjustable tables. It is controlled by a control unit from LOGICDATA, to which different hand switches can be connected. Several drives can be operated synchronously on one control unit.



Fig. 1: DMDinline D

1	Attachment point on motor end (screws and rubber discs provided)
2	Connection cable
3	Motor
4	Attachment point middle tube with installation variant – thick end up
5	Attachment point middle tube with installation variant – thick end down
6	Flange attachment point

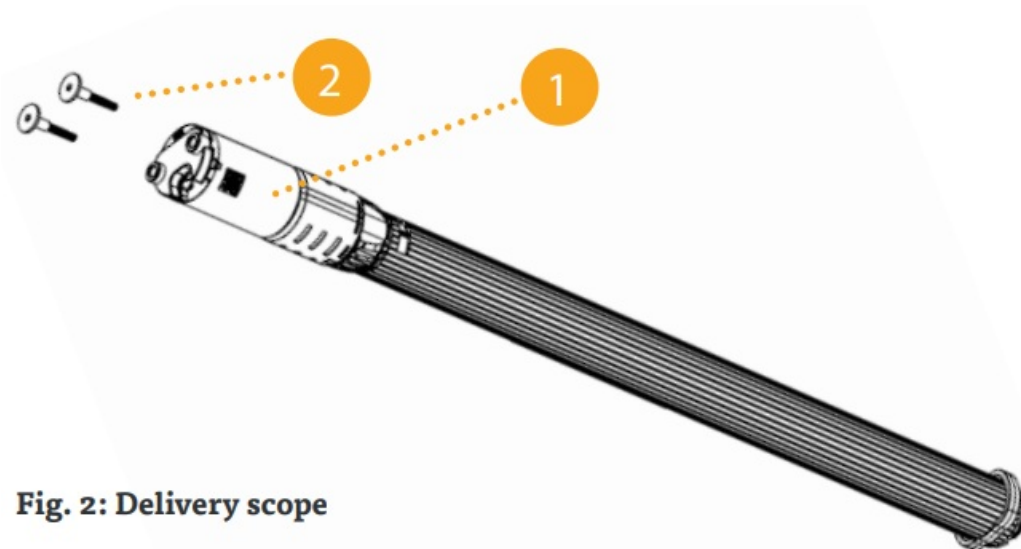
### 3.2 INTENDED USE

The DMDinline D actuator may only be installed in telescopic tubes to adjust electrically height-adjustable tables and used for this purpose exclusively. The intended use is to adjust the table height electrically. Only power supply units from LOGICDATA, which are parameterized for the DMDinline D, may be used for this purpose. The actuators must be assembled, commissioned and functionally checked by qualified personnel. Any other use that does not conform to the intended use will result in the loss of warranty and warranty claims. The basic function is the upward and downward movement (of a table top). This function can be executed with suitable hand switches from LOGICDATA.

NOTICE Permissible drive loads and speeds always refer to the product DMDinline D and not to the additional load on the table system. The reseller must take additional loads such as e.g. friction forces, the deadweight of the table components and torque loads into consideration. The newly determined permissible load must be specified in the parent documentation of the final product.

### DELIVERY SCOPE

The standard scope of delivery for the DMDinline D actuator consists of the following components:



**Fig. 2: Delivery scope**

Standard delivery scope

1	DMDinline D actuator
2	Two mounting screws incl. rubber disks (LOG-PRT-SD-MOUNTINGSCREW)

## UNPACKING

The DMDinline D actuator is packaged in a carton.



### NOTICE

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

To unpack, proceed as follows:

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 (separate the plastic parts and the cardboard by type).

## ASSEMBLY

### 6.1 GENERAL ASSEMBLY

NOTICE	Before assembly and operation, the DMDinline D must be acclimatised to the ambient conditions.
NOTICE	Ensure proper ESD handling throughout the installation. Failures that can be attributed to electrostatic discharge will void warranty claims.
CAUTION	Safety shoes and gloves must be worn during the assembly of the actuator.

#### 6.1.1 ACTUATOR DIMENSIONS

Figure 3 shows the dimensions of the DMDinline D actuator in the retracted and extended state.

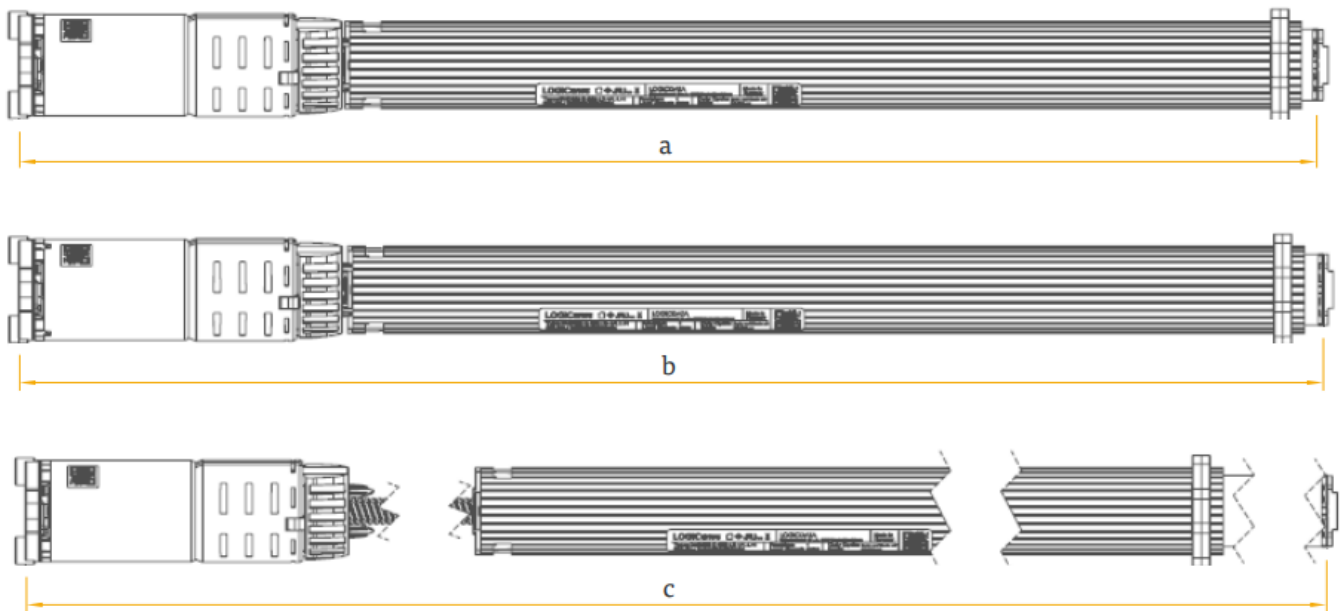


Fig. 3: a retracted length, b installation length, c extended length

### 6.1.2 INSTALLATION OPTIONS

The DMDinline D is designed for synchronous movement of the middle tube.



Fig. 4: Synchronous movement of the middle tube results in the distances  $x$  being the same at all times independently from the current height (middle tube removed for easier demonstration).

For this it is necessary to connect the drive with the middle tube of the height-adjustable column. Depending on the type of height-adjustable column design, different installation requirements must be taken into consideration. In this document, the installation variants are characterized as follows, depending on the types of height-adjustable columns:

- “Thick end up”: In this variant, the tube with the largest diameter is at the top (table top).
- “Thick end down”: In this variant, the tube with the largest diameter is at the bottom (floor).

The DMDinline D actuator can be used for both variants.

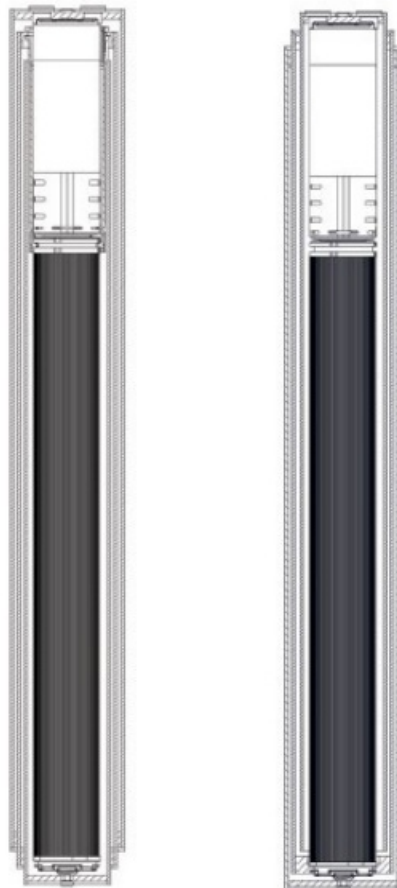


Fig. 5: “Thick end up” (left) and “Thick end down” (right) in retracted position

NOTICE	Regardless of the installation variant, the inner diameter of the inner tube must be selected so that a surrounding air gap of min 3 mm between the inner wall of the tube and the DMDinline D is guaranteed.
NOTICE	As shown in Figure 5, height-adjustable columns must be designed so that the motor end of the DMDinline D is always up

### 6.1.3 INSTALLATION TOLERANCES

#### NOTICE

In order to ensure proper functioning, height-adjustable columns must comply with the tolerances specified by LOGICDATA. Otherwise, the warranty claims are void.

These tolerances are published by LOGICDATA on request.

### 6.1.4 DEFAULT SETTINGS

NOTICE	Failure to follow the instructions below may result in damage!
NOTICE	LOGICDATA recommends measuring the dimensions of the DMDinline D before assembly with a gauge or other suitable measuring equipment.
NOTICE	In order to utilize the complete stroke of the drive, a corresponding design of the height-adjustable column is necessary. It is important that the drive reaches the final position before the tube.
NOTICE	Deviating flange settings may only be implemented in consultation with LOGICDATA.


## 6.2 ASSEMBLY “THICK END UP” VARIANT



This chapter explains the installation with installation option “thick end up” in more detail. If you are using the installation of the “thick end down” column, skip this chapter and continue with 6.3.

6.2.1 ATTACHING THE MIDDLE TUBE

The tube adapter is intended to connect the drive with the middle tube of the height-adjustable column via a special counterpiece (see Figure 6: Symbolic image of the counterpiece for the tube adapter).

NOTICE	The design specifications for the customer-provided counterpiece are available from LOGIC DATA only on request. These includes dimensions and tolerances as well as notes on material selection and assembly.
 CAUTION	Danger due to insecure connection To ensure a secure connection, the counterpiece must be designed exactly to the specifications of LOGICDATA. Otherwise, the warranty claims are void.

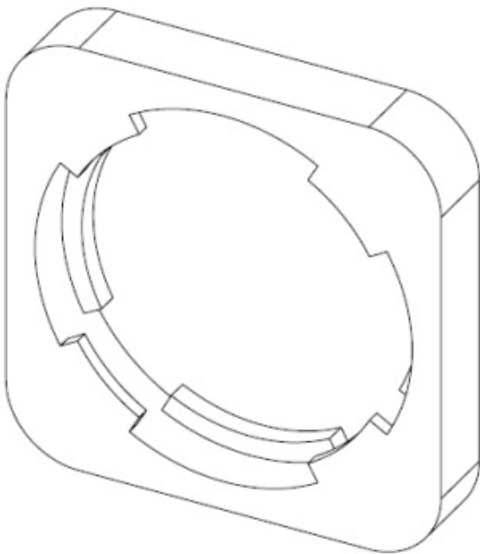


Fig. 6: Symbolic image of the counterpiece for the tube adapter

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 end). For instructions on mounting with other height-adjustable column constructions, please contact LOGICDATA.
NOTICE	We recommend measuring the friction of the tube pairs before installing the drive! The combination of control unit and drive is not a suitable means for measuring the friction!

Proceed with the following steps for the assembly with the installation variant “thick end up”:

1. Assemble the counterpiece for the tube adapter (see Figure 6: Symbolic image of the counterpiece for the tube adapter) in the middle tube.
2. Insert the three tubes into each other.

NOTICE

LOGICDATA recommends measuring the gliding properties of the height-adjustable column without the installed drive after this step.

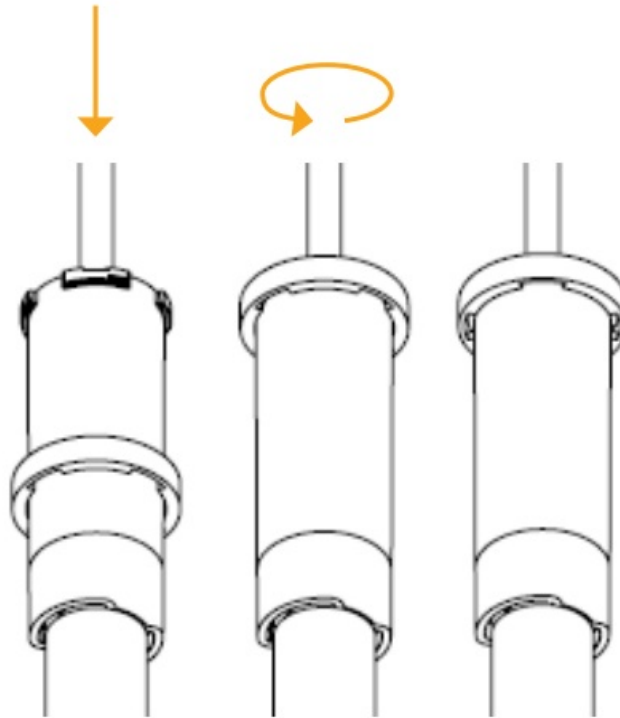
NOTICE

The maximum force on the tube adapter counterpart must not exceed 150N! This is due to a difference in frictional forces between the tube pairs.

3. Mount the drive in the preassembled height-adjustable column (see Figure 7: Example of actuator installation in

a round height-adjustable column by rotating it 1/8 turn clockwise when seen from top).


4. Then make the attachment on the motor end and flange end according to Chapter 6.4 and Chapter 6.5.

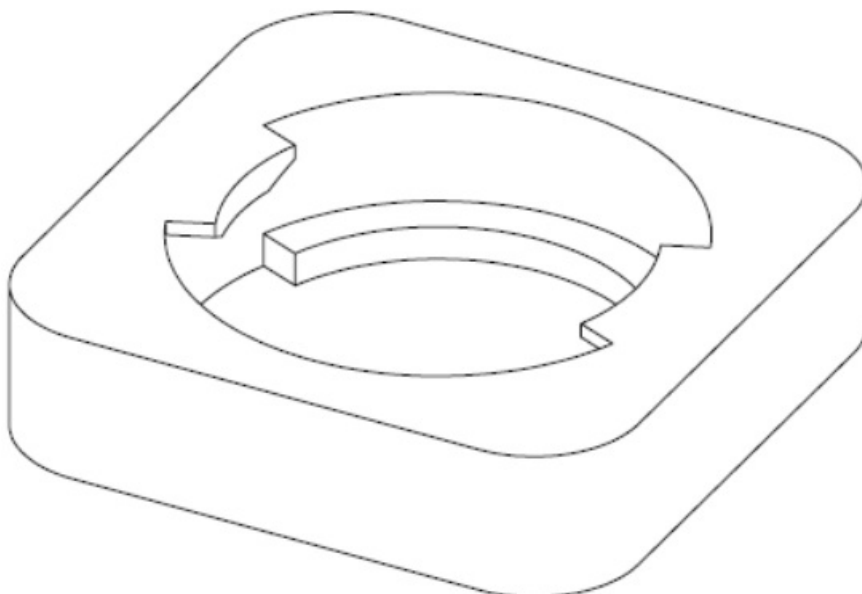


**Fig. 7:** Example of actuator installation in a round height-adjustable column

### 6.3 ASSEMBLY “THICK END DOWN” VARIANT

The middle tube adapter is produced by the customer and is fixed in the middle tube. It is connected to the drive in the installation variant “thick end down”.

NOTICE	The design specifications for the middle tube adapter are available from LOGICDATA only on request. These includes dimensions and tolerances as well as notes on material selection and assembly.
 CAUTION	<b>Danger due to insecure connection</b> To ensure a secure connection, the middle tube adapter must be designed exactly to the specifications of LOGICDATA. Otherwise, the warranty claims are void.



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 inner tube). For instructions on mounting with other height-adjustable column constructions, please contact LOGICDATA.
NOTICE	We recommend measuring the friction of the tube pairs before installing the drive! The combination of control unit and drive is not a suitable means for measuring the friction!

Proceed with the following steps for the assembly with the installation variant “thick end down”:

1. Assemble the middle tube adapter (see Figure 8: Symbolic image of the middle tube adapter) in the middle tube.
2. Insert the three tubes into each other.

#### NOTICE

For suitable production aids, joining forces and joining speeds or detailed information on the assembly process, please contact LOGICDATA. Failure to perform the joining process properly may result in damage to the DMDinline D.

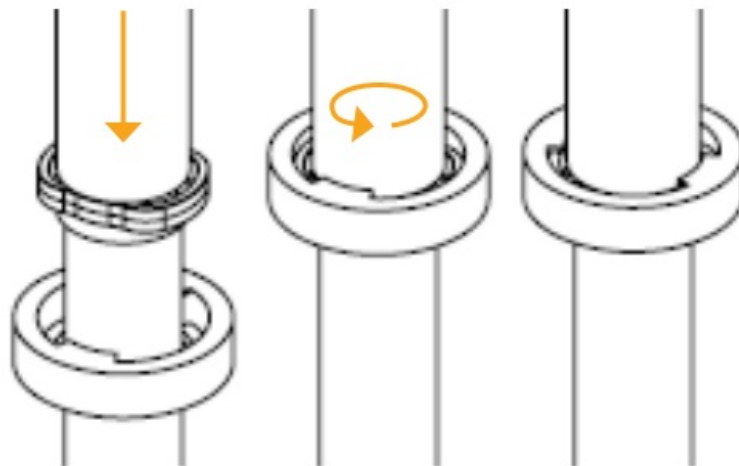



Fig. 9: Assembling the middle tube

3. Insert the actuator into the column. With the middle tube attachment point fitted in the middle tube adapter, turn it 90 degrees in any direction.
4. Attach at the motor end and flange end according to Chapter 6.4 and Chapter 6.5.

## 6.4 MOTOR SIDE INTERFACE

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 material selection and assembly.
NOTICE	The screws and rubber disks are supplied together with the drive. The mounting screws must be tightened to the recommended tightening torque of 2.5 – 3 Nm.
NOTICE	The DMDinline D can only be mounted once with the supplied screws, otherwise correct tightening of the mounting screws can not be guaranteed.
NOTICE	Mounting without rubber disks is not permitted.
 <b>CAUTION</b>	<b>Danger due to insecure connection</b> To ensure a secure connection, the top plate must be designed exactly to the specifications of LOGICDATA. Otherwise, the warranty claims are void.

## 6.5 FLANGE SIDE INTERFACE

The figure below provides an overview of the components required to assemble the drive on the flange end.

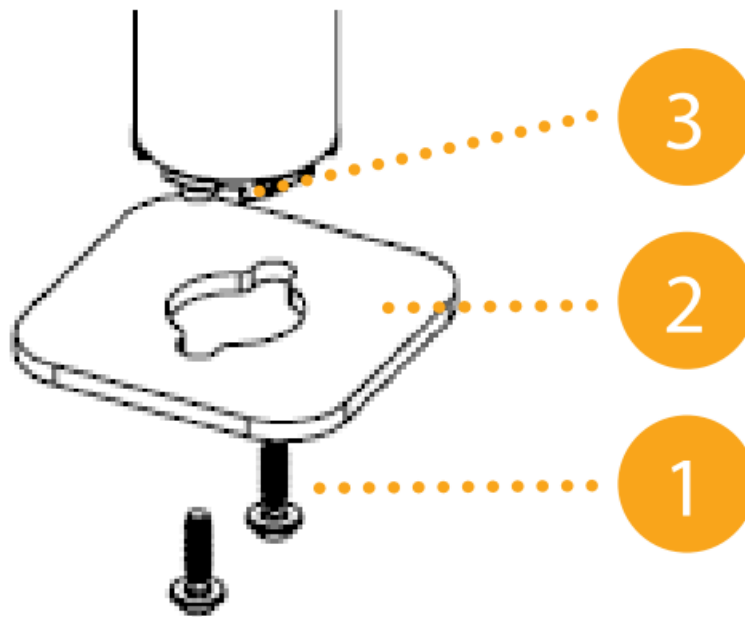


Fig. 10: Overview of the flange end

1	Mounting screw (adapted by the customer to bottom plate)
2	Bottom plate (developed by the customer, design specifications of LOGICDATA)
3	Flange adjustment point

### NOTICE

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



### CAUTION

Danger due to insecure connection

To ensure a secure connection, the top plate must be designed exactly to the specifications of LOGICDATA. Otherwise, the warranty claims are void.

## 6.6 CABLE CONNECTION

After the DMDinline D is installed in the height-adjustable column, connect the motor cable to the actuator. Be careful not to damage the cable when installing the finished column.

## SOFTWARE-DEPENDENT FUNCTIONS

The description of the software-dependent functions can be found in the Dynamic Motion System manual.



## INTELLIGENT SYSTEM PROTECTION (ISP)

ISP (Intelligent System Protection) reduces the risk of pinching when a moving table hits an obstacle. It is important that all actuators of a table are either with or without ISP sensors. For more information concerning ISP, refer to the Dynamic Motion System Manual.

## DISASSEMBLY

For disassembly, disconnect the DMDinline D from the power supply and proceed in reverse order to assembly.

## MAINTENANCE

 <b>WARNING</b> G	Hazards from the use of incorrect accessory parts Only use original accessory parts. These may only be installed by expert service personnel. Otherwise your warranty claims will be void.
 <b>WARNING</b> G	Hazard from inappropriate repairs Contact your customer service immediately in the event of a malfunction. Only original spare parts are approved for the repair of the drives. These may only be replaced by expert service personnel. Otherwise your warranty claims will be void.

## TROUBLESHOOTING

Please refer to the Dynamic Motion Manual for troubleshooting DMDinline actuators.  
For technical problems, please contact our support at:

Phone:	+43 (0) 3462 51 98 0
Fax:	+43 (0) 3462 51 98 1030
Email:	<a href="mailto:office.at@logicdata.net">office.at@logicdata.net</a>

Always provide the product name and the revision status according to the type plate with any support request.  
In case of a defect, replace the DMDinline D as a whole.

## ADDITIONAL INFORMATION

### 12.1 TECHNICAL SPECIFICATIONS

You can find the technical data of your actuator in the corresponding 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](http://www.logicdata.net)

### 12.3 DISPOSAL



Dispose of all components separately from household waste. Use designated collection points or disposal companies authorized for this purpose.



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## Documents / Resources

	<p><a href="#">LOGICDATA DMDinline D Height Adjustable Desks Components</a> [pdf] Instruction Manual DMDinline D Height Adjustable Desks Components, DMDinline D, Height Adjustable Desks Components, Adjustable Desks Components, Desks Components</p>
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## References

- [LOGICDATA | Motion for your life and adjustable furniture. LOGICDATA](#)
- [User Manual](#)

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