Spark

Assembly and operating instructions



RENZ

Dear Customer,

Thank you for choosing this product from our company.

This operating manual explains how to assemble, use and maintain our SPARK sitstand desk. The table frame must be assembled in accordance with these instructions. Modifications to the table frame or improper use may affect safety, function and service life!

Be sure to read the operating instructions before using the product (partly height-adjustable office desk) and keep these operating instructions with the product.

Wilhelm Renz GmbH + Co. KG

Assembly and operating instructions for electrically height-adjustable desks, model:

X07 (Frame type 1500 / TP format 07 / 2000 x 1000 mm, rectangular) > Product version 1500/07 dated 08.04.2025
 X09 (Frame type 1500 / TP format 09 / 2200 x 1000 mm, rectangular) > Product version 1500/09 dated 08.04.2025
 X11 Frame type 1500 / TP format 11 / 2400 x 1000 mm, rectangular) > Product version 1500/11 dated 08.04.2025

Adjustment range (work surface height) = 740 to 1200 mm

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Intended use, Safety instructions

1. Intended use

This sit-stand desk may only be used as an office work desk in a professional working environment. The electrically height-adjustable desk can be set to an individual working height for a seated or standing user between 740 and 1200 mm using the hand switch.

The system can only be used safely when the assembly instructions have been completely read and the included directions have been followed.

The sit-stand desk must not be handled or used improperly, and no changes may be made to the desk frame or the electrical system, otherwise the warranty and the CE declaration of conformity by RENZ will be void.

2. Prior knowledge required for installation and commissioning

The following knowledge is required for commissioning and assembling height-adjustable office desks:

- Basic mechanical and electrical engineering knowledge
- Ability to read and understand the operating instructions

3. Symbols used in safety instructions

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Danger: This safety notice indicates an imminent danger to the life and health of persons!



Warning: This safety notice refers to potential hazards caused by electric current!



Danger: This safety notice indicates a potential risk of crushing, which may occur in certain cir

cumstances.



Note: Before proceeding with the next task, disconnect the power plug!

Failure to observe these instructions may result in health effects, serious life-threatening injuries and damage to property!

4. Safety instructions

These operating instructions contain safety instructions that draw your attention to potential hazards and thus enable the safe operation of the sit-stand desk. Please always observe these safety instructions! Failure to observe these instructions may result in health risks, danger to life, injury and damage to property.



Please read and observe the operating instructions before assembling/commissioning the sit-stand desk!



Modifications to the components of the table frame, including the motor control and hand switches, are prohibited! Before connecting or disconnecting drives, hand switches or other accessories to the motor control, be sure to disconnect the power supply cable from the mains.



The sit-stand desks are not designed for continuous operation. The tabletop height must not be adjusted for longer than the operating time specified on the type plate without interruption. Do not overload the drives.



This appliance can be used by children aged 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 appliance in a safe way and understand the hazards involved.

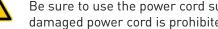
Danger: Children must not play with the appliance! Cleaning and user maintenance must not be carried out by children.



Cables at the table must not be laid freely across the floor (trip hazard). Use cable thresholds that are firmly attached to the floor.



Moving the furniture can damage cables running above or in the floor (cutting, crushing)! Cleaning staff and operators must be informed of these hazards.



Be sure to use the power cord supplied! Check regularly for damage. Operating the sit-stand desk with a damaged power cord is prohibited!



Caution: If the power cord of this device is damaged, it must be replaced with an original spare part by the manufacturer, its customer service department, or a similarly qualified person in order to avoid hazards.



In the event of malfunctions, immediately disconnect the power plug! The power plug serves as an electrical disconnect device and must be easily accessible at all times. The total connected load of the table, including all consumers, must not exceed 3500 watts in Germany at 220 volts AC and a fuse rating of 16A. A maximum of 3000 watts remains for consumers plugged into the table. Non-German power supply systems may differ from these values.



There is a risk of crushing when changing the tabletop position!

Therefore, ensure that there are no objects or persons in the danger zone and that no one reaches into the danger zone!

Ensure that movable furniture does not get into the lifting area.

The integrated collision protection is a system protection and NOT personal protection!



All moving parts of the table frame must have the required safety clearance of at least 25 mm from adjacent components.



Protect the table frame and, in particular, all electrical components on the table, including connection panels, built-in components and hand switches, from moisture (dripping and splashing water, drinks, etc.).

The table must not be operated in damp rooms. Only use the system in closed rooms. Contact with moisture/liquids may result in electrical hazards.



The electrically powered sit-stand desk must not be operated in explosive atmospheres!



In the event of a fault, the tabletop may move slightly each time you attempt to start it up before the safety shut-off kicks in. Please be aware of the potential risk of crushing.



Collision protection is not active during all reset processes (section Initialisation/Reset). The inner and outer tubes move completely into each other directly under the tabletop. Please note that there is a risk of crushing in the frame area.



If the product is visibly damaged or causes unusual noises or odours, it must not be installed or used!



Lifting persons and/or objects with the aid of the table is prohibited! The table must not be used as a climbing aid! The load capacity of the height-adjustable table is max. 40 kg. Do not sit or stand on the system during operation (risk of injury). Avoid uneven loads; ensure that the load is distributed evenly across both lifting columns.

5. Before any installation, uninstallation or troubleshooting

Stop the height-adjustable office desk..



Note: Switch off the power supply and unplug the power cord!

Remove all weights from the height-adjustable office desk.

Spark

During operation, Repairs / Service / CE conformity, Maintenance / Cleaning

66. Before commissioning



- Make sure that the table has been assembled in accordance with these instructions.
- The table may only be operated with the voltage specified on the control unit's type plate

7. During operation



• If the device behaves unusually or causes unusual noises or odours, disconnect the power supply.



• Make sure that the cables are not damaged. Damaged cables must be replaced immediately; the device 'must not be used until this has been done.

8. Information for resale



Note: Resale of this product to third parties only with complete operating instructions

9. Repairs / Service / CE conformity

In the event of a technical defect in this device, please contact us as the manufacturer or one of our authorised customer service centres. You will find solutions to simple possible errors in the Error Messages section!



To prevent malfunctions, repairs may only be carried out by authorised service personnel. Only original spare parts may be used to repair the sit-stand desk.

10. Maintenance / Cleaning

Regularly remove dust and dirt from the table frame, especially from the guide tubes, and make sure that there is no damage or cracks. Regularly check all fastening screws for tightness and all plug connections, cables and plugs for proper functioning.



The control unit, hand switch and table frame may only be cleaned with a dry or slightly damp cloth. No liquid must be allowed to enter the system (control unit, hand switch, electrical components, distributor, plug strips, cables and frame). Danger to persons!



Aggressive cleaning agents can cause damage or discolouration to the table frame. Therefore, only agents with a pH value of 6-8 may be used. For information on cleaning and caring for wooden parts (tabletops, etc.), please refer to our care instructions at:

You can find our care instructions "Quality Pass" on our website at https://www.renz.de/bilder/broschuren



11. Assembly



Only use screws as specified for assembling the table frame!



Incorrect screws can cause damage to the table.



During assembly of the table frame, the power cable of the motor control must be disconnected from the mains!

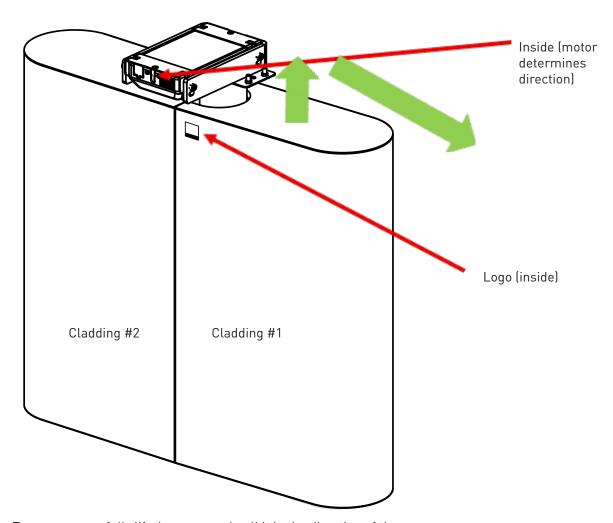
Before assembling and commissioning the sit-stand desk, ensure that the product has acclimatised to the temperature and humidity values specified in the technical data for operation!

11.1 Schematic overview of table frame

ATTENTION: FOLLOW THE ASSEMBLY SEQUENCE/RISK OF PROPERTY DAMAGE! Cladding with the RENZ LOGO = Cover #1

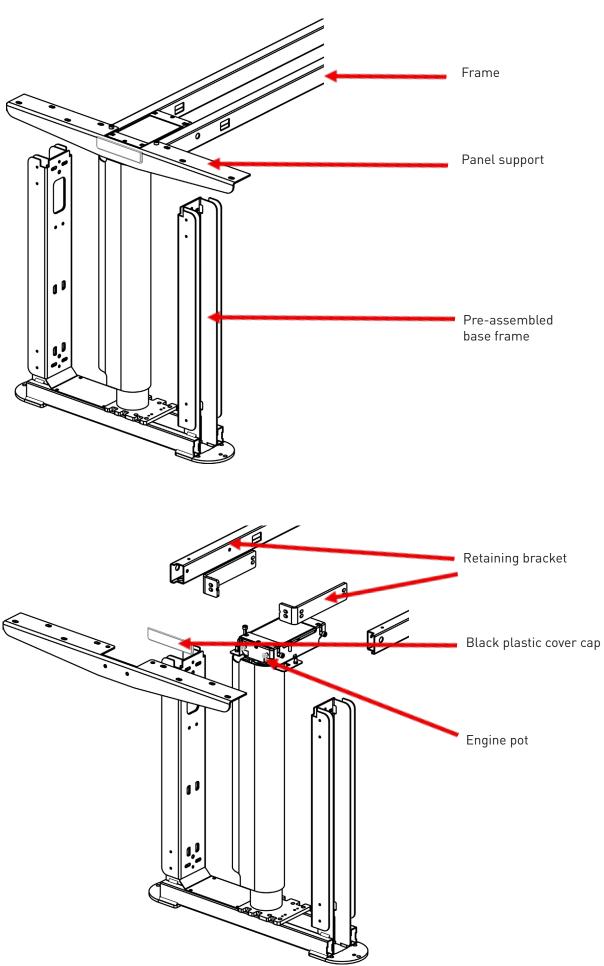
- → Remove FIRST #1!
- → Install LAST #1!

Logo points inwards in each case! - as the motor housing.



To remove, carefully lift the cover and pull it in the direction of the green arrow.

Overview of the components



11.2 Switch sides of electrification

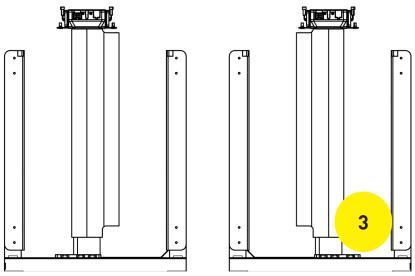
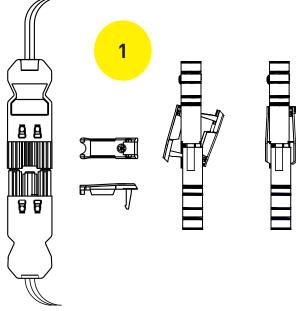


Figure 1 Wiring Factory settings

When delivered, the table's power cable is connected to the right side panel. To change the connection side, please proceed as follows:

- Remove the covers (see section11.1)
- Clip off the GST connector lock (1) and loosen the cable ties. Secure the remaining cable harness.
- Open the strain relief (2) on the underside of the side panel and screw it back on without the cable.



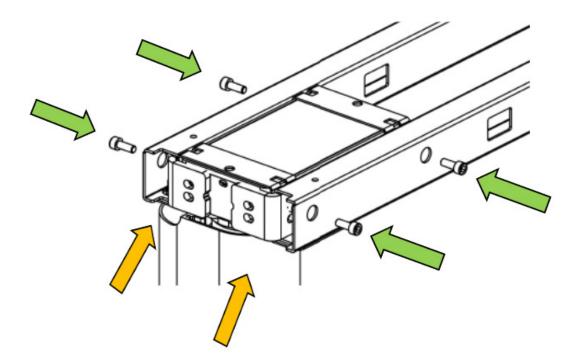


Change sides.

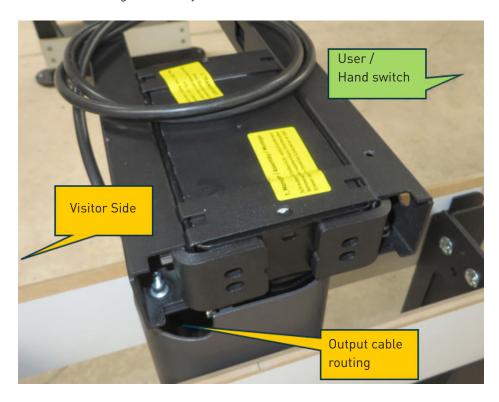
- Plug the power cord into the other table side. Secure the GST connectors
- Secure the cable harness to the vertical outer profile with cable ties / never to moving parts! The cable harness (3) must not extend into the movement range of the lifting column.
- It is essential to install the strain relief at the bottom of the foot extension with the cable

11.3 Table frame assembly

Loosen the pre-mounted screws on the side (green arrows) as indicated on the yellow information signs (=transport lock). Place the frames on the motor housing as shown below and insert the retaining brackets (orange arrows) on the motor housing into the frames:



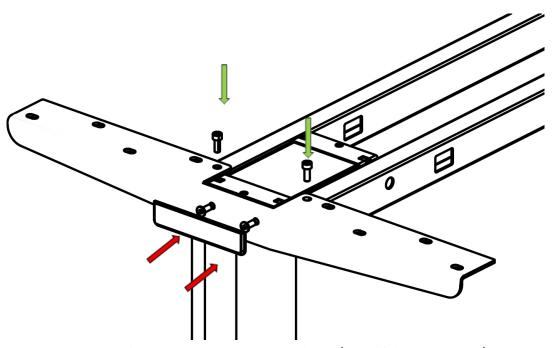
Screw the frames to the mounting brackets and the motor housing using 4x M6x20 cylinder head screws (green arrows). Do not tighten them yet!



Cable outlet: This side faces the visitor!

Installation of plate supports

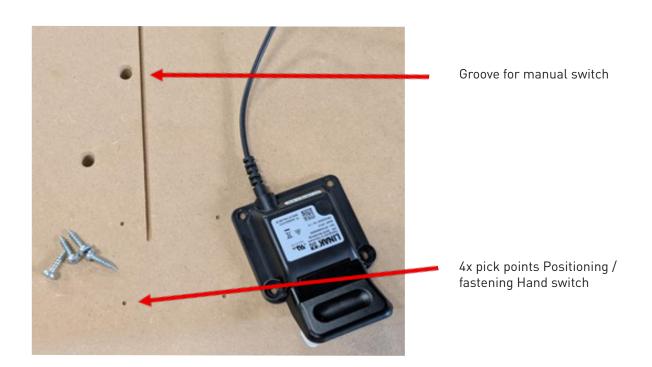
Place the plate holder as shown and fasten it with two M6x20 countersunk screws on each side, then attach the black plastic cover. Next, screw in two M6x20 cylinder head screws from above. Now tighten all eight screw connections on each side!



Attach your tabletop from underneath to the table frame (M6 x 20 flat head, black) at all designated screw points. The foam rubber washers on the top help dampen vibrations.

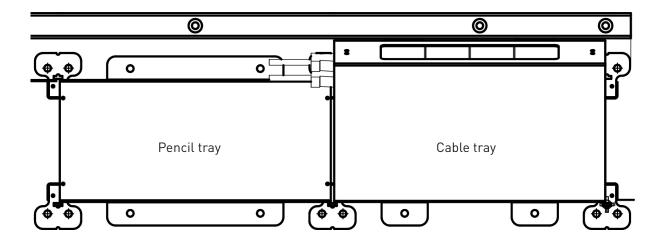
11.4 Manual switch installation

Depending on the desired operating side, screw the hand switch to the left or right of the tabletop at the pick points (4x Spax Panhead 5.0x17). Carefully press the cable into the groove. Do not crush the cable when laying it down!

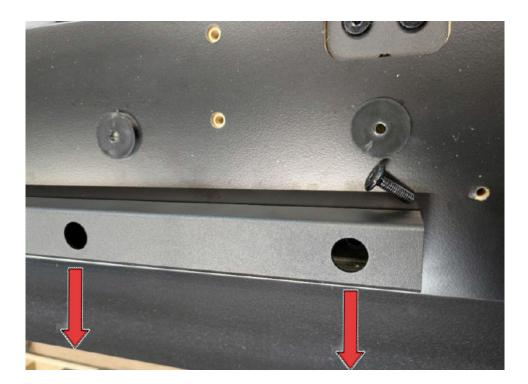


11.5 Tabletop: Installation of optional table insert

Mount the pencil tray and cable tray in the desired position using $6.2 \times 13.5 \text{ mm}$ pan head screws. To do this, you will need to remove the table mounting frame (transport lock).

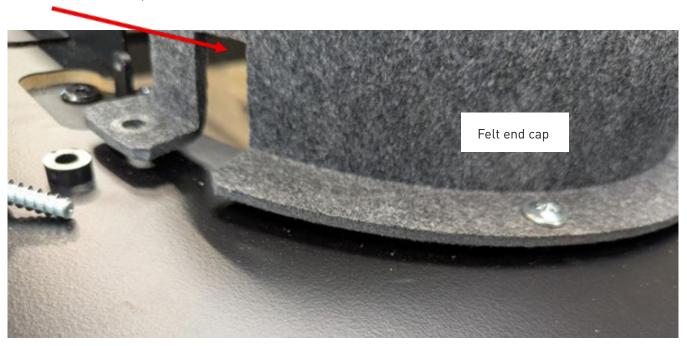


Install the table mounting frame with black spacers. Caution: The threaded holes (ARROW) on the side of the frame must face the edge of the table



11.6 Felt channel installation

Fit the felt end cap (L/R) with a spacer disc between the felt and the tabletop, ensuring that the recess faces the frame/centre of the table



Install the felt channel using knurled screws (8x).







11.7 Assembling the tabletop onto the frame

Position the frame in the center of the room. The cable outlets of the vertical cable guide face the visitor / see point 11.3.

Carefully place the tabletop on the table frame from above. Both lifting columns must be parallel – measure and check!

Feed the cable/plug of the hand switch into the space between the two frames. Do not crush the cable when placing it!

- 1. Screw the plate holder in place using 16x M6x15 flat head screws (black)
- 2. Screw the frames centrally to the tabletop using 2x round head screws M6x14
- 3. Screw the control unit between the frames using 2x pan head screws 5.0x45
- 4. Screw the Velcro holder in place using 6x counter sunk screws 4.5x20

11.8 Cabling



Note: Power cord

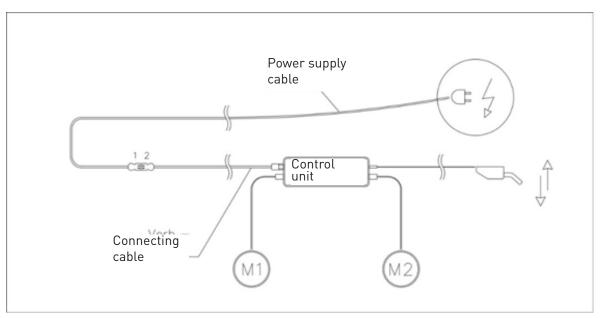
Only use the supplied 3-pin power supply cable or mains connection cable! If the mains connection cable of this device is damaged, it must be replaced by the manufacturer or its customer service department or a similarly qualified person in order to avoid hazards.

The cables are secured in the base frames by strain reliefs; these must not be removed.

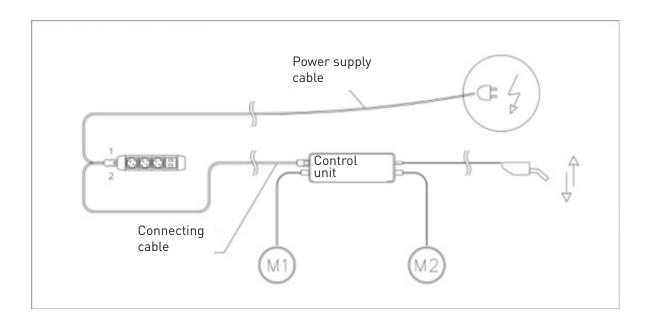
Connect the connection cable from the table side panel to the power cable with the control unit. Connect the left and right motor cables from the columns to the control unit. The plug connection must click firmly into place. Connect the hand switch to the control unit.

Always route all cables through the Velcro cable holders on the left and right sides of the table to the control unit.

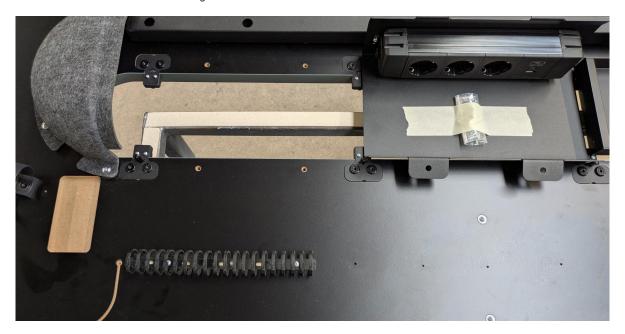
Without additional modules



With additional module



View from below - cable routingl



The control unit can be rotated to the left or right depending on the position of the power supply. There are grooves on the underside of the control unit that must be used for cable routing and strain relief of the power cable. These grooves allow for additional cable routing options if required (e.g., hand switch).

The cable holders can be positioned and mounted as required.

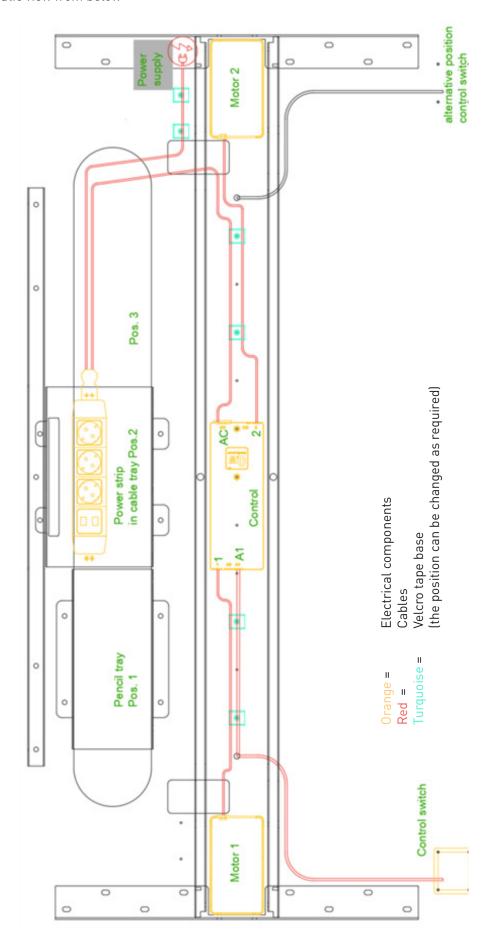
- 1. Plug the power cord into the CBD6S.
- 2. Place the power cord in the groove for strain relief.



3. If necessary, place the other cables in the grooves to optimize the table design and lay the system cables.



Schematic view from below



11.9 Finish

1. <u>Aligning the table:</u>

Align the table horizontally using the 4x adjustable feet. When extended, the lifting columns must be vertical and parallel to each other.



Figure 2 Adjustable foot

2. Base panels:

Attach the base panels to the table sides from below. You can route the power cable out of the side panel on the outside, inside, front or back.

The opening for the cable outlet must be used for this purpose. The position of the opening can be varied by repositioning it. The cable may only be routed through the opening provided for this purpose! Risk of shearing and crushing!

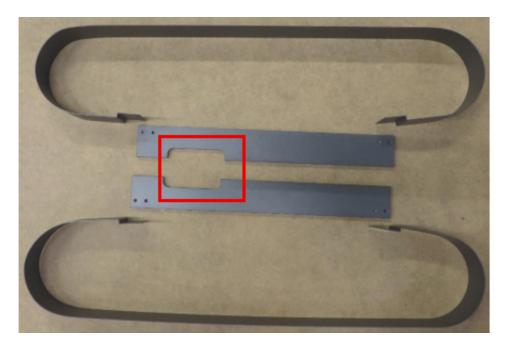
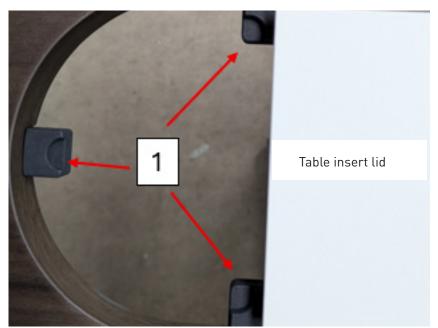
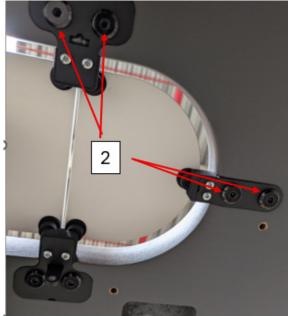


Figure 2 Base panel (reinstall cable outlet as required)

3. Table panel cover

Place the table panel cover on the bracket (1). If necessary, align the cover using the screws (2) on the underside of the bracket.





12. Operation

The control is operated via a toggle switch. Familiarise yourself with the operation of the table before using it.

- 1. Press and hold the toggle switch upwards to raise the table.
- 2. Press and hold the toggle switch downwards to lower the table.

Release the toggle switch when you have reached the desired position.

12. Operation

The control is operated via a toggle switch. Familiarise yourself with the operation of the table before using it.

- 1. Press and hold the toggle switch upwards to raise the table.
- 2. Press and hold the toggle switch downwards to lower the table.

Release the toggle switch when you have reached the desired position.

13. Commissioning

Commissioning includes all activities necessary to ensure that an electrically height-adjustable sit-stand desk can be adjusted in height using the motor control.



Only connect the power supply cable/mains cable once all other electrical components have been connected to each other!

Check that the mains voltage corresponds to the type plate on your control unit.

13.1) Commissioning / Initialisation (RESET)

- a) Initialisation is required for commissioning. The system is initialised by pressing the down button once and holding it down until the lifting column moves to the lower position.
- b) Release the button and press down again within 10 seconds. The table will continue to retract and then extend again by approx. 5 mm. Do not release the down button until the movement has come to a complete stop.
- c) If the button is released before the sequence is complete, initialisation will be interrupted and must be restarted from the beginning.
- d) Note: The first two times the system moves upwards to the end stop, the system detects an over load. After that, the system only moves to approx. 2 mm before the end stop.

13.2) Settings menu

In the settings menu, you can choose between and access the following menus:

Setting	Description
13.2.1 Height	Correct display height
13.2.2 Unit	Adjust height measurement unit
13.2.3 Favourite position	Set/delete favourite positions
13.2.4 Limits	Upper and lower limits for table height
13.2.5 Restore	Reset to factory settings
13.2.6 Exit	Exit menu

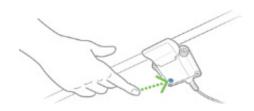


Figure 4 connection button

Setting mode

- 1. To activate the settings mode, press the connection button and simultaneously hold down the toggle switch for 3 seconds.
- 2 Scroll through the menus by tilting the toggle switch up or down. The icon in the upper left corner of the display indicates that the DPI is in setup mode.
- 3. Press the connection button to select a menu/setting.

Note: The setup menu will automatically exit after 30 seconds of inactivity.

13.2.1) Height

If the displayed height is incorrect, it can be adjusted here.

- 1. Measure the height from the floor to the tabletop.
- 2. Press the connection button to open the menu.
- 3. Set the displayed height using the toggle switch.
- 4. Press the connection button to save the new height.

13.2.2) Unit

Here you can change the unit of measurement for height.

- 1. Press the connection button to open the menu.
- 2. Use the toggle switch to scroll through the options 'CM', "MM" and 'INCH'.
- 3. Press the connection button to save the selected option.

13.2.3) Favourite position

Favourite positions are freely adjustable memory positions at the desired table height. Once you have found a suitable table height for you, it can be saved; up to four favourite positions are possible.

Saving favourite positions:

- 1. Press the connection button to open the menu.
- 2. Press the toggle switch up or down to reach the desired favourite position, to delete all set favourite positions or to exit the menu with 'CANCEL' and return to the settings menu.
- 3. When the desired option is displayed, press the connection button.
- 4. Adjust the desk to the desired height.
- 5. Press the connection button to select the height and then press it again to save the favourite position.

Note: If you do not want to save this position as a favourite, press the toggle switch and then the connection button to cancel the operation and return to the favourite's menu.

Deleting favourite positions

Note: In this menu, you can delete all saved favourite positions.

- 1. Press the toggle switch upwards to access the DELETE FAVOURITES menu.
- 2. Press the connect button to select this option and then press it again to confirm the deletion of **all** favourite locations.

<u>Note</u>: If you do not want to delete the favourite positions, press the toggle switch and then the connection button to cancel the operation and return to the DELETE FAVOURITES menu.

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Operation/Commissioning/Settings menu

Approaching favourite positions

The previously stored Favourite positions can be accessed by holding down the up/down toggle switch, depending on the starting position. By releasing and pressing again, the journey to the next Favourite position can be continued or ended at any position.

13.2.4) Limits

Limiting the table height at the top and bottom. If the table cannot be operated across its entire travel range because, for example, it would collide with a shelf above or a container below the table, you can:

- set an upper limit ('shelf stop')
- set a lower limit ('container stop')

Setting the limit

- 1. Press the connection button to open the menu.
- 2. Tilt the control panel to switch between 'LOWER', "UPPER", 'CLEAR LIM.' or 'CANCEL'.
- Set limits:
 - Select 'LOWER' (lower limit) or 'UPPER' (upper limit) and press the connection button.
 - 2. Adjust the desk to the desired height using the toggle switch.
 - 3. Press the connection button to select the height and press it again to set the limit value.

Note: To cancel, flip the switch and press the connect button.

- 4. Delete restrictions:
 - 1. Select 'CLEAR LIM.' and press the connect button.
 - 2. Press the connect button again to delete all limit values.
- 5. Exit menu:
 - 1. Select 'CANCEL' and press the connection button to return to the settings menu.

13.2.5) Restore

In this menu, you can restore the factory settings, e.g. if a desk changes users.

- 1. Press the connection button to open the menu.
- 2. Press the connection button again to delete all changes made since the last configuration.

Note: If you want to cancel the restoration, press the toggle switch and then the connection button to cancel the process and return to the restoration menu.

13.2.6) Exit

Here you can exit the settings menu once all settings have been made.

1. Press the connection button to exit the settings menu.

Note: The menu closes automatically after 30 seconds of inactivity.

13.3) Connecting Bluetooth® / LINAK - Desk Connect ™ App

The LINAK - DESK CONNECT™ app is available as an optional extra to complement the table system. It offers various convenient functions and allows error codes to be read. We recommend installing the app before pairing it with the device. The free app has the following app logo and can be found under the shown QR-Codes:







Logo

Apple Store

Google Play Store

Press the connection button on the handheld switch for 2 seconds to activate pairing mode. The device is in pairing mode when the display shows the following

≯ ID DESK XXXX

All controls have IDs with the designation 'DESK' followed by a four-digit number (XXXX). Follow the instructions on your mobile phone, tablet or similar device.

Disclaimer:

The Desk Connect[™] app/software mentioned above is a supplementary product offered by LINAK, the manufacturer of our lifting system. Wilhelm RENZ GmbH + Co. KG is not the provider/developer and is neither responsible nor liable for any malfunctions of the software or device in the event of damage.

13.4) Automatic operation not permitted

The height-adjustable RENZ 'SPARK' desk may only be adjusted manually using the attached hand switch. Any remote control, height adjustment or time control using an app/software on a smartphone, tablet, PC or other devices is NOT permitted!

13.5) Troubleshooting

The most common solution is initialization **(L1)** as per section **13.1** This fully retracts all columns, allowing the control unit to recognize the reference position.

<u>Note</u>: This is especially required if the table moves down but not up. Initializing the control unit is a normal procedure and is provided for by the system.

Further Checks:

- **L2:** Inspect all cable connections (power and motor cables to control unit and columns) and replace any damaged parts if necessary.
- L3: Check for obstructions underneath, above, or at the sides of the table and remove if present
- **L4:** Identify faulty components using the error codes and take corrective action as per the following table:

Error Code	Description	Cause	Remedy
E01	Table has an unknown position and must be initialized	Position error	Initialize system (L1)
E02- E03	Overload occurred in upward/down- ward direction	Obstruction	Remove obstruction (L1)
E08	Software failed to start monitoring	Software error	- Unplug the power cable for 15 seconds Initialize the system (L1) Replace the control unit
E10	Power failure has occurred	Power cord pulled during movement	Check power cord (L1)
E23 - E26	Channel detected as missing	Connection inter- ruptions / defective cable	Check connections and cables → L1
E41 - E62	Overload has occurred	Hit an obstacle	Remove obstacle → L1
E71- E78	Short circuit occurred	Damage to a cable	Check and replace cables

Table 1 Error code and solution

14. Technical specifications

General / Table frame with 2 drives (built-in columns or side panels)

Supply voltage	230 V / 50 Hz / 3500W
Power consumption in standby mode	0.1 W
P In, max.	300W
Ambient temperature during operation	+ 10 to + 40°C
Permissible relative humidity (for operation + storage)	20 to 80 % - non-condensing
Storage and transport temperature	-10°C to +50°C
Air pressure	700 to 1060 HPA
Max. duty cycle	10% (~ 6 minutes per hour or 2 minutes of continuous operation at full load followed by an 18-minute break)
Nominal stroke speed of the drive columns (reduced under load)	38 mm/s
Max. load	392 N (≈ 40 kg)
Stroke length	460mm (740 to 1200mm table height)

SPARK Elektrisch höhenverstellbarer Büroarbeitstisch 230V ~ / 50 Hz / 3500 W Einschaltdauer ED: Max. Belastung: 10% S3 RENZ 740 - 1200mm, 460mm (incl. Tischplatte) Verstellbereich,Hub: Baujahr / Herstelldatum: Wilhelm Renz GmbH + Co. KG 20 Hanns-Klemm-Straße 35 38mm/s vmax: 71034 Böblingen (Germany) Anschluss nur durch Fachpersonal. T +49 (0)7031.21880 Montage- und Betriebsanleitung beachten. F +49 (0)7031.218850 info@renz.de www.renz.de

Maximale Anschlussleistung 3000 W

Spark

Disposal/Ergonomie

15) Environmentally friendly disposal

Your product is designed for durability and sustainability. When disposing of this product and its packaging, always follow your country's specific regulations and ensure that the product is disposed of or recycled in an environmentally friendly manner. The height-adjustable table can be dismantled by following these assembly instructions in reverse order.

The following applies to all work on the table:



- Stop the sit-stand desk and remove any weight from the table
- Switch off the power supply and unplug the power cord

16) Ergonomics

Always adjust the table height to suit your working position. When working at a computer screen, make sure that the top line of the screen is not above your horizontal line of sight.

A favourable posture is achieved when the line of sight is inclined 35° downwards from the horizontal. The screen surface and line of sight should form a right angle.

The working height should be approximately at elbow height when sitting or standing with your arms hanging loosely.

For further information, please refer to the guidelines of the Berufsgenossenschaft (BG) for the design of office and computer workstations in Germany, or to the respective country-specific guidelines when working outside Germany.

17) EG-Declaration of conformity



Pursuant to the EC Machinery Directive 2006 / 42 / EC, Annex II 1. A..

We hereby declare that the products listed below, in the versions placed on the market by us, comply with the following directives. This declaration becomes invalid in the event of any modification or improper use.

Manufacturer:

Person established in the Community authorized to compile the technical documentation. (Authorized representative)

Wilhelm Renz GmbH + Co. KG Hanns- Klemm- Straße 35 71034 Böblingen Hr. Eckart Renz Hanns-Klemm-Straße 35 71034 Böblingen 07031 / 2188-0

Product: Electrically height-adjustable office desks, SPARK series

Model: X07 (Frame type 1500 / TP format 07 / 2000 x 1000 mm, rectangular)

> Product version 1500/07 dated 08.04.2025

X09 (Frame type 1500 / TP format 09 / 2200 x 1000 mm, rectangular)

info@renz.de

> Product version 1500/09 dated 08.04.2025

X11 (Frame type 1500 / TP format 11 / 2400 x 1000 mm, rectangular)

> Product version 1500/11 dated 08.04.2025

Description: Electrically height-adjustable office desk

Adjustment range (work surface height) = 740 to 1200 mm

Vmax = 38 mm/s; Maximum load capacity: 50 kg Electrical connection = $230 \text{ V} \sim / 50 \text{ Hz} / 3500 \text{ W}$

Duty cycle ED = 10% S3

Applied standards: DIN EN 527-2: 2016 + A1:2019

Office furniture - Office work tables - Part 2: Safety, strength and durability

requirements

EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A2:2019 + A14:2019

Internal wiring, mains connection and external wiring, improper operation

(operation under blocked conditions)

Böblingen, den 30.07.2025

Managing Director:

Eckart Renz

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