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Symbols, safety

	Important information
	Observe directions for disposal
	Observe packaging instructions
	Caution! Risk of cable break, failure to observe this safety instruction can result in serious injury or death
	Caution! Risk of crushing, failure to observe this safety instruction can result in serious injury or death
	Maintenance
	Note! Failure to observe this safety instruction can result in material damage
	Warning! Failure to observe this safety instruction can result in material damage, serious injury or death
	Danger! Failure to observe this safety instruction can result in material damage, serious injury or death
	Caution! Failure to observe this safety instruction can result in material damage or injury

General safety information

The details and information in this installation guide are provided for the purposes of describing the product and its installation only. This information does not discharge users from the obligation to conduct their own assessments and checks. It is also important to bear in mind that our products are subject to a natural process of wear and ageing.

This guide contains important information that will enable you to use the product safely and appropriately. When sold, rented out or otherwise passed on to another party, this product must be handed over with the installation guide.

When installing, operating and maintaining the electrically height-adjustable table columns, it is important to ensure that all moving elements are secured so that they cannot be switched on and moved unintentionally. Rotating and moving parts can cause serious injury! You must therefore read and follow the safety instructions set out below.

All work on and with the electrically height-adjustable table columns must be performed with “safety first” in mind.

Switch off the power to the table columns before carrying out any work on the electrically height-adjustable work bench.

Ensure the table columns cannot be switched on unintentionally, e.g. by affixing warning notices at the activation point or by removing the fuse from the power supply.

Do not place your hand within the operating range of moving parts on the electrically height-adjustable table columns when they are still switched on.

Fit guards and covers to the moving parts of the electrically height-adjustable table columns to ensure they are not touched unintentionally.

Observe the regulations pertaining to accident prevention and environmental protection that apply in the country and workplace where the product is being used.

You should use only item products that are in perfect working order.

Failure to use original spare parts will invalidate the product warranty!

Check the product for obvious defects.

Use the product only within the performance range described in the technical data.

Ensure all the safety equipment associated with the product is present, properly installed and in full working order.

Do not alter the position of safety equipment, circumvent it or render it ineffective.

The electrically height-adjustable table columns described here correspond to the state of the art and take into account the general principles of safety applicable at the time this user guide was published. Nevertheless, failure to observe the safety instructions and warning notices in this guide may result in personal injury and damage to property.

We will assume no liability for any resulting damage or injury. We reserve the right to make changes that represent technical advances. Keep this guide in a place where it can be easily accessed by all users. Observe the directions contained in the overarching user guide for a system.

The general safety information applies to the entire life-cycle of the electrically height-adjustable table columns.

1. During transportation

Observe the handling instructions on the packaging. The table columns are normally to be retracted for transportation. Until it is installed, the product must be stored in its original packaging, protected from moisture and damage. Ensure moving parts are secured when in transit and cannot cause any damage. Suspended loads can fall during transportation if load-bearing equipment is inadequately dimensioned or is incorrectly secured, thus leading to serious injuries (including fatalities).

- Keep clear of suspended loads.
- Use lifting gear with sufficient load-bearing capacity (see delivery paperwork for product weight).
- Carefully secure lifting gear.
- Attach lifting gear to the product only at sufficiently stable points.
- Always place the height-adjustable work bench on a level surface. Observe environmental regulations.
- Always perform a test run on the uninstalled product before installing it in a completed system.

2. During installation

Always ensure the relevant section of your overall system is not live before installing the product and/or plugging it in or unplugging it. Ensure the system cannot be switched back on. Lay cables and lines in such a way that they cannot be damaged and do not represent a trip hazard. Avoid areas that pose a risk of crushing, slipping, tripping and falling.

3. During start-up

Allow the product to acclimatise for a few hours before starting it up.

Ensure that the electrically height-adjustable table columns are securely and safely integrated into the completed application.

Only start up a safe product that has been installed in full.

In order to ensure safe operation under the final conditions of use, it is the responsibility of the operator to check the entire solution for electrical and mechanical safety for electrical and mechanical and, if necessary, ESD safety in accordance with the standards at the place of destination and to repeat this at appropriate intervals.

4. During operation

Ensure that only persons who have been authorised by the operator have access to the immediate operating area of the height-adjustable table columns. This also applies when the system is not in operation. It must not be possible to actuate moving parts unintentionally. In the event of emergencies, malfunctions or other irregularities, deactivate the height-adjustable table columns and ensure they cannot be switched back on. Ensure that nobody can step below suspended loads and prevent access below the working surface of the height-adjustable table columns. Before and during each movement, check for any obstacles and potential pinch points and remove them if necessary. The height-adjustable work bench is not suitable for lifting people.

5. During cleaning

Close all openings with suitable protective equipment to ensure that cleaning agents cannot penetrate the system. Do not use aggressive cleaning substances. Do not use a high-pressure cleaner for cleaning.

6. During maintenance and servicing work

Carry out the prescribed maintenance work at the intervals stipulated in the user guide. Ensure that no cables, connections or components are detached or removed while the system is live. Also ensure that the height-adjustable table columns cannot be switched back on.

7. During disposal

Dispose of the product in accordance with the national and international regulations that apply in your country.

Correct use

The electrically height-adjustable table columns must only be used in accordance with the technical data and safety requirements set out in this document. The electrically height-adjustable table columns are technical items of work equipment and are not intended for private use.

If major modifications are made to the electrically height-adjustable table columns, the documentation must be renewed and supplemented accordingly.

The Table Column Set is a moving device for the raising and lowering of a working surface and accessories.

Internal company requirements and the regulations that apply in the country where the product is being used must be observed. You must not make any design modifications to the electrically height-adjustable table columns yourself. We will assume no liability for any resulting damage or injury.

You may only install, operate and maintain Table Column Sets if:

- The Table Column Set is used only in a fixed, stationary location
- The Table Column Set is integrated into its surroundings in a proper and safe manner; the operator is responsible for ensuring proper and safe installation
- You have carefully read and understood the installation guide
- You are appropriately qualified
- You are mentally and physically capable of doing so
- You are authorised to do so by your company
- You are using only original equipment from the manufacturer

Unsafe or inappropriate use of the electrically height-adjustable table columns runs a risk of serious injury through crushing and cuts.

Improper use

Improper use is defined as any use of the product for purposes other than those authorised in the installation guide and under the definition of correct use. We will assume no liability for any resulting damage or injury.

Personnel qualifications

Assembly, commissioning, operation, disassembly and maintenance work (including servicing and care) require an adequate knowledge of electrical and mechanical engineering and an understanding of the relevant technical terminology. To ensure operational safety, these activities must therefore be carried out only by a qualified person or by trained personnel under the direction of a qualified person.

Qualified persons are individuals who – by virtue of their specialist training, know-how, experience and knowledge of pertinent provisions – are able to assess the work that is assigned to them, identify potential hazards and put in place appropriate safety measures. Such qualified persons must comply with the applicable specialist regulations.

Product description



INFO! The item Table Column Sets are the basis for customised, electrically height-adjustable work benches. The stable lifting columns support a range of working positions with a maximum travel distance of 420 mm. The ability to swap easily between sitting and standing work takes a great deal of strain off the back. Three different working heights can be saved to introduce ergonomics into everyday working life – whether different operators are using the same bench during different shifts or users want to quickly change between typical working positions. The Line 8 grooves on the outer Telescope Profile can be used to attach load-bearing and connecting structures. The columns are designed exclusively for the occasional adjustment of tables and fixtures and are not intended for use in automation processes.

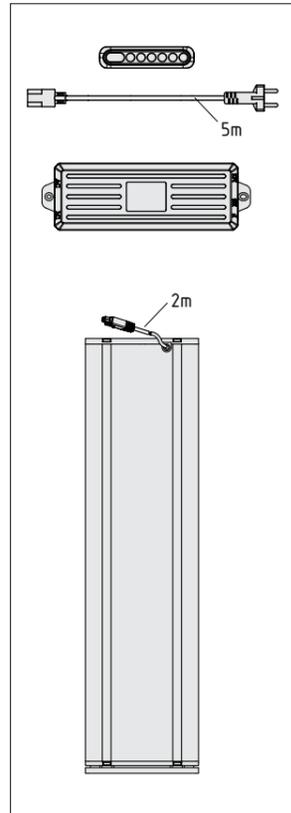


Table Column Set 1 E 100V - 240V

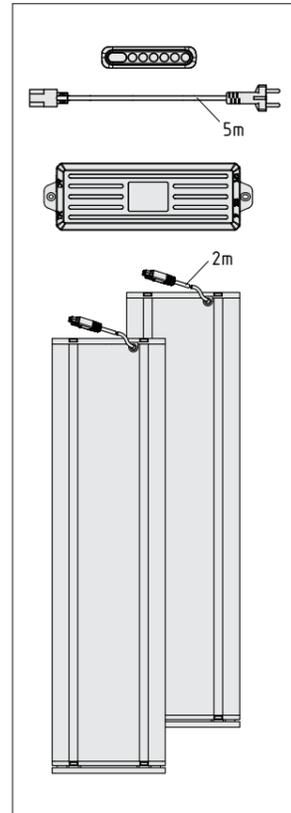


Table Column Set 2 E 100V - 240V

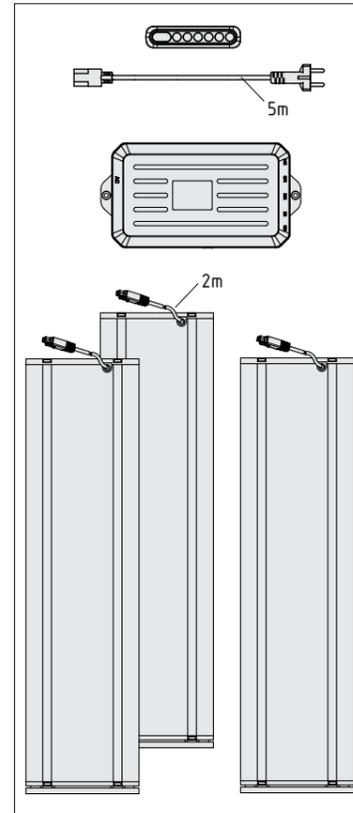


Table Column Set 3 E 100V - 240V

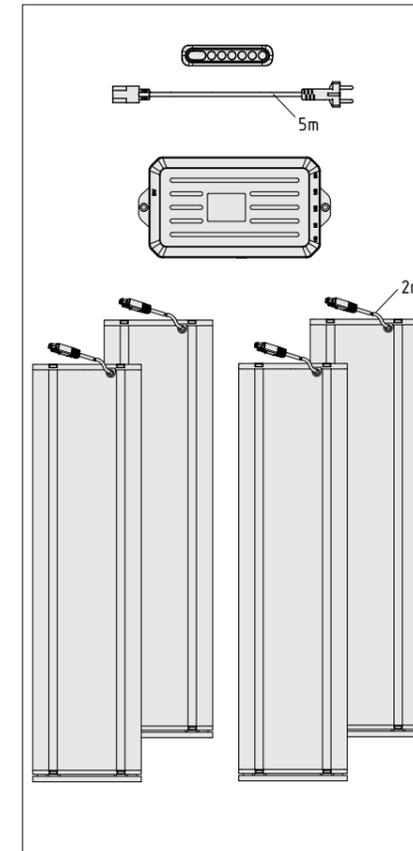


Table Column Set 4 E 100V - 240V

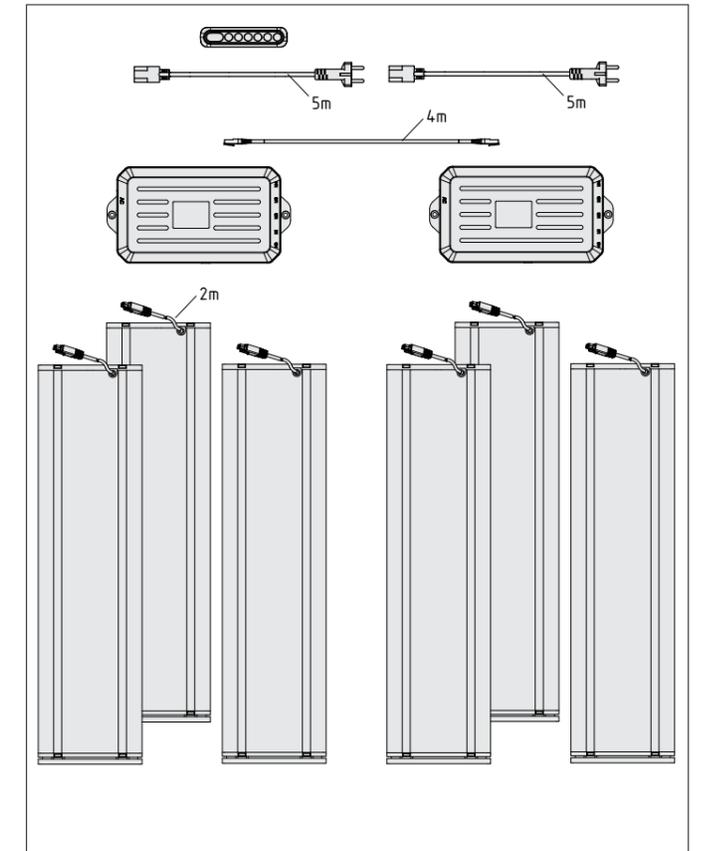


Table Column Set 6 E 100V - 240V

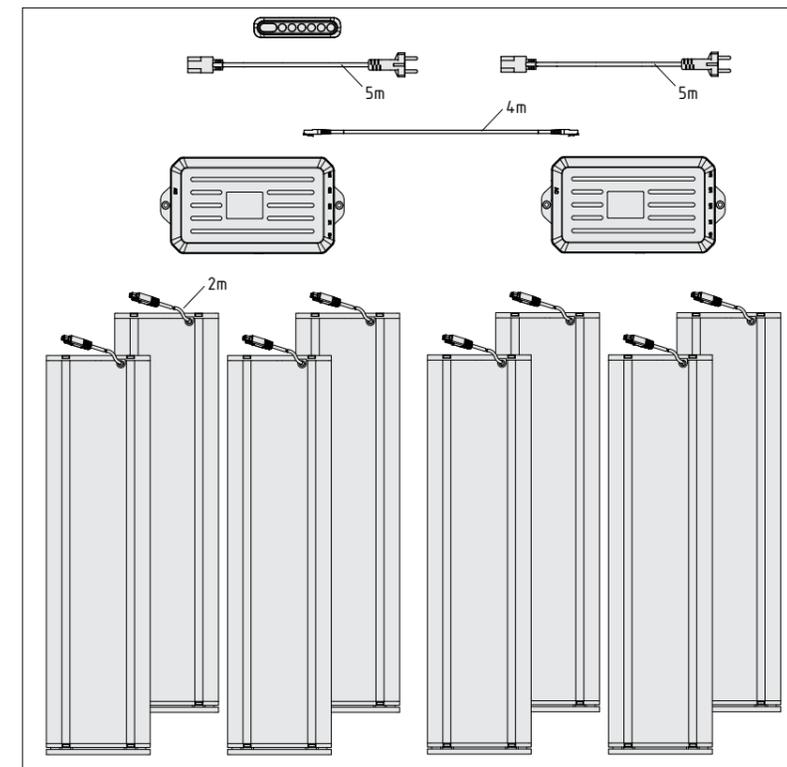
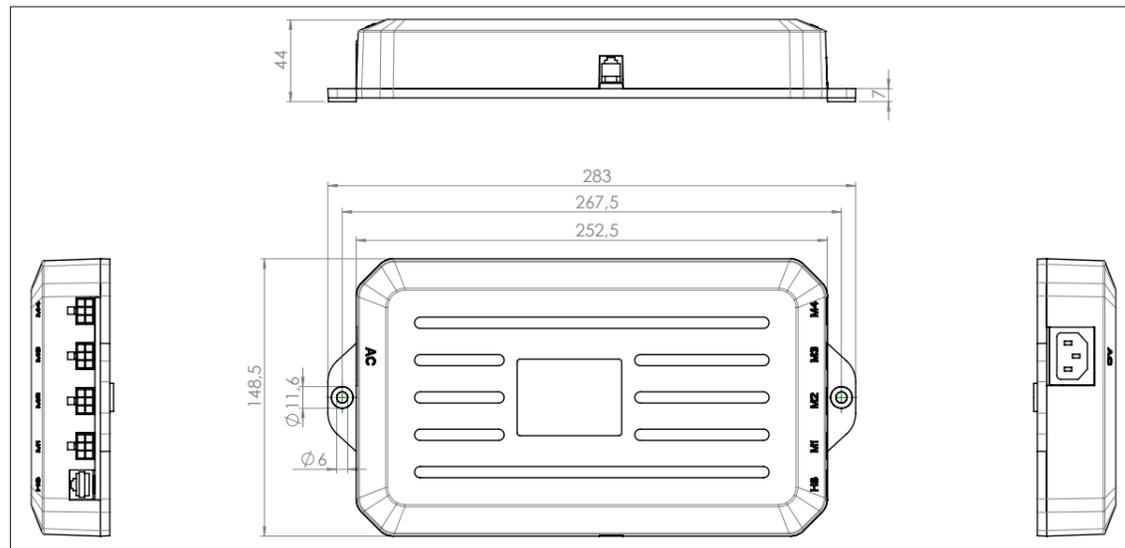
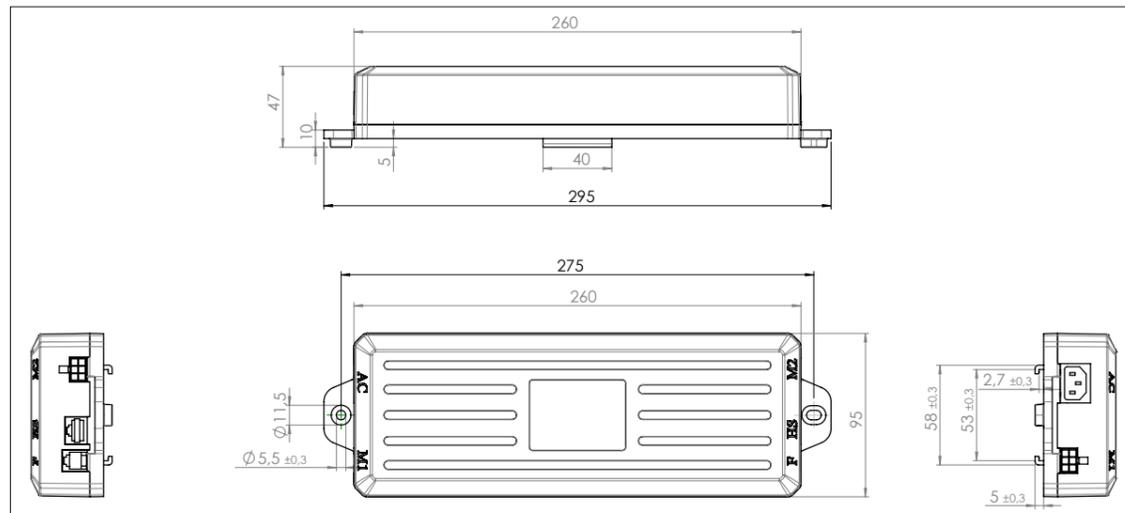


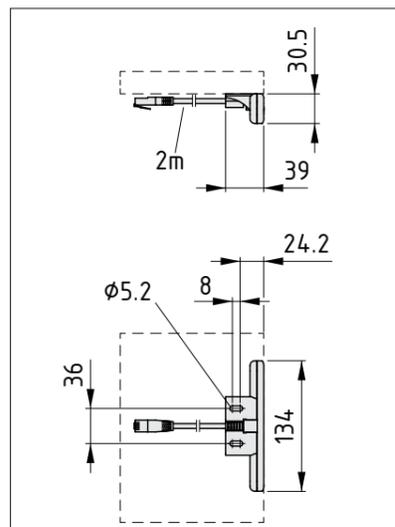
Table Column Set 8 E 100V - 240V



Mounting dimensions of the control unit for table column 4 E



Mounting dimensions of the control unit for table column 2 E



Mounting dimensions of the Handset

Name / Art.No.	Drawing	Amount	Note
Control Unit 1 E Table Column 8 160x60 0.0.730.48		1	For a system with 1 table column
Control Unit 2 E Table Columns 8 160x60 1.1.687.92		1	For a system with 2 table columns
Control Unit 3 E Table Columns 8 160x60 0.0.730.22		1	For a system with 3 table columns
Control Unit 4 E Table Columns 8 160x60 1.1.698.29		1	For a system with 4 table columns
Control Unit 6 E Table Columns 8 160x60 0.0.730.49 (A) 0.0.730.50 (B)		2	For a system with 6 table columns For a system with 6 table columns Control units A and B are visually identical, but differ in terms of programming and are synchronised using a cable
Control Unit 8 E Table Columns 8 160x60 0.0.730.51 (A) 0.0.730.52 (B)		2	For a system with 8 table columns For a system with 6 table columns Control units A and B are visually identical, but differ in terms of programming and are synchronised using a cable
Table Column 8 160x60-2 1.1.687.75		1 2 3 4 6 8	For a system with 1 table column For a system with 2 table columns For a system with 3 table columns For a system with 4 table columns For a system with 6 table columns For a system with 8 table columns
Switch panel memory lifting column 8 160x60 1.1.688.17		1	buttons start from left to right: <ul style="list-style-type: none"> ▪ Displays ▪ UP - Button ▪ DOWN - Button ▪ M1, M2, M3 (position memory) ▪ M - Memory button

For more information about the accessories contact the manufacturer or your item GmbH partner.

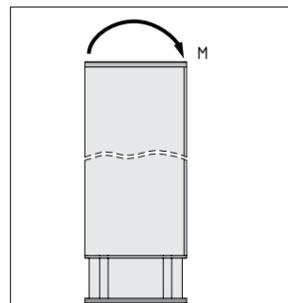
Operating Data

Table column set 1 E	1 column	1000 N distributed
Table column set 2 E	2 columns	2000 N distributed
Table column set 3 E	3 columns	3000 N distributed
Table column set 4 E	4 columns	4000 N distributed
Table column set 6 E	6 columns	6000 N distributed
Table column set 8 E	8 columns	8000 N distributed
Perm. bending moment in travel mode		120 Nm
Speed		15 mm/s
Temperature range		-5 °C to +40 °C
Noise emissions		< 60 dB (A)
Minimum mounting level 2 E		690 mm
Minimum mounting level 4 E		690 mm
Travel range		420 mm
Threaded bores mounting plates		4 x M8x8 2 x M10x8
Storage temperature		-10 °C to +70 °C
Relative humidity		5 % to 85 %



INFO! Air pressure > 84 kPa, equivalent to altitude of < 1400 m above sea level
At altitudes > 1400 m, the load values are reduced by 15%.

Selecting and installing appropriate components ensures the Table Column Sets are suitable for use in areas where electrostatic charges pose significant hazards. We recommend you consult your item representative or your item GmbH partner.



Work bench designs must take into account the maximum permissible torque load for the table columns of $M_{max.} = 120 \text{ Nm}$.



CAUTION! In the case of high loads, make sure that the substructure can also withstand the expected moments and loads.

Setting up height-adjustable table columns - Environmental considerations



NOTE!

- The height-adjustable table columns are intended as a permanent fixture in an indoor area
- The area should be free from mould and fungus and show no traces of rodents or other pests.
- Do not install or use in close proximity to industrial plants that produce chemical emissions.
- Do not install or use near sources of sand or dust.
- Do not install or use in an area that is regularly exposed to high-energy surges such as those caused by presses or heavy machinery, for example.



- The table columns are resistant to many of the substances usually encountered in the production area, such as water, mineral oil, grease and detergents. In case of doubt regarding resistance to certain chemicals such as test oil, alloyed oils, aggressive cleaning substances, solvents or brake fluid, we advise that you consult your specialist representative.
- Avoid long periods of contact with highly acidic or alkaline substances.
- Consult the manufacturer if using in very salty air.

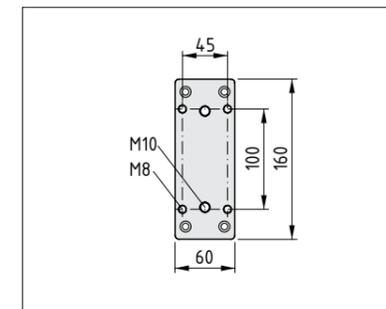
Levelling

To set up the table columns, you will need a spirit level.

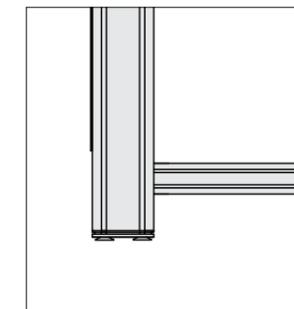


CAUTION! Incorrect set-up and start-up cause faults. The height-adjustable construction may be damaged and its service life may be shortened.

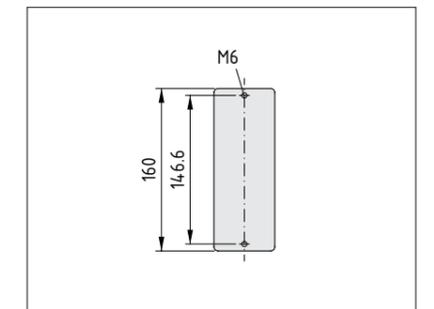
- When setting up the table columns on uneven ground, use the spirit level to ensure they are square and axially parallel.
- Do not subject the table columns to bending loads.
- Do not use the table columns in combination with other guides (forced guidance).
- The inner profiles must never be mechanically connected to each other. This also includes fixing them to the floor. At least one fixed/floating bearing solution must be provided to compensate for tolerances.
- Adjust the clearance between the columns to suit the anticipated loads, but do not position them any more than 2 metres apart.
- Initialise (reset) the table columns before they are mechanically fixed together.



The M10 threaded bores in the base plates can be used to connect any adjustable feet.



Level the table columns by using the knuckle feet and carefully check the alignment of the table columns with a spirit level.



The M6 threaded bores in the mounting plates can be used in combination with Automatic-Fastening Sets 8 to connect the columns to Profiles 8 160x60 4N E.

Electrical connections for height-adjustable table columns

Control units are used to control and synchronise height-adjustable table systems with 1, 2, 3, 4, 6 or 8 table columns. Each variant has one or two control units (100VAC - 240VAC), which must be wired as described.

Table column control unit 1 E (0.0.730.48):

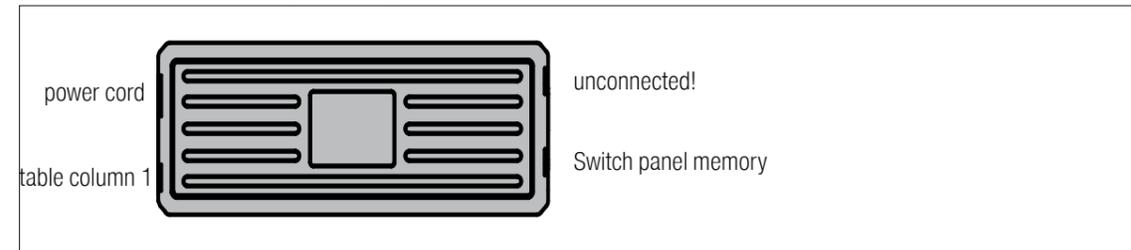


Table column control unit 2 E (1.1.687.92):

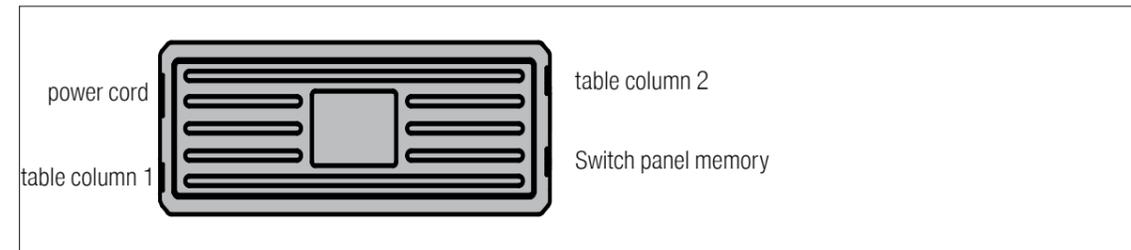


Table column control unit 3 E (0.0.730.22):

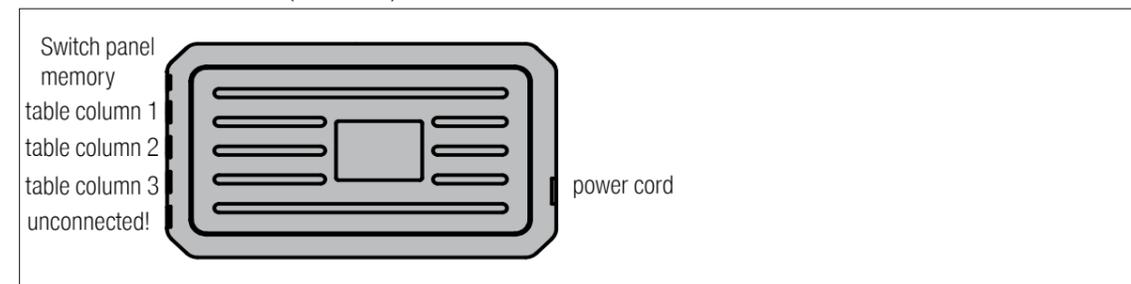


Table column control unit 4 E (1.1.698.29):

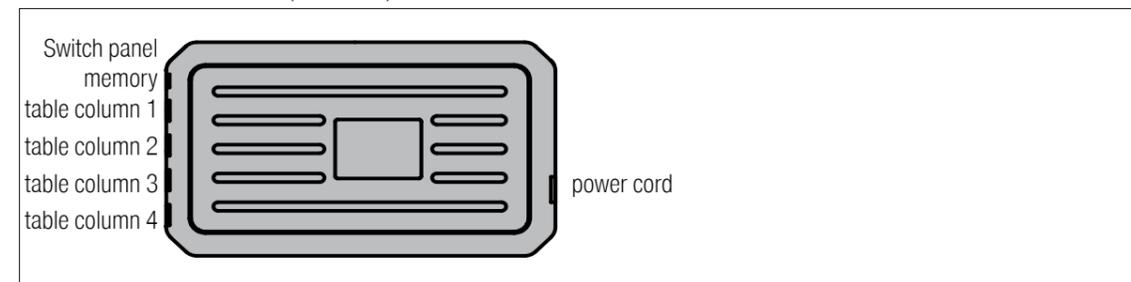


Table column control unit 6 E (0.0.730.49 - control unit A and 0.0.730.50 - control unit B):

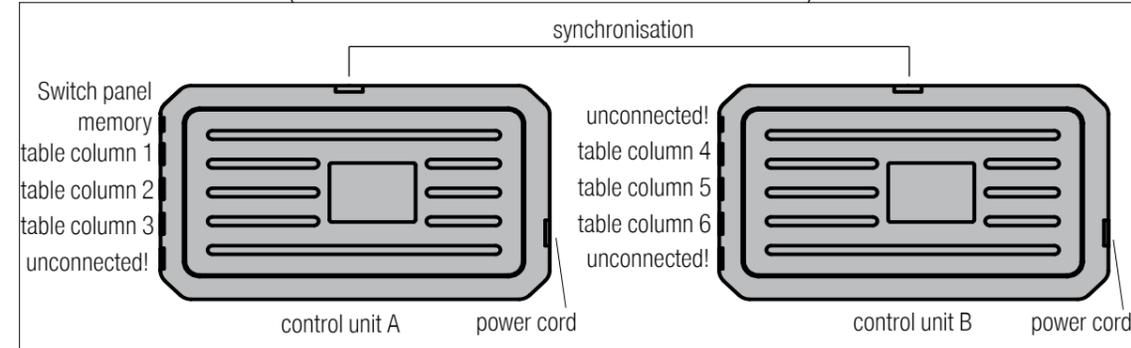
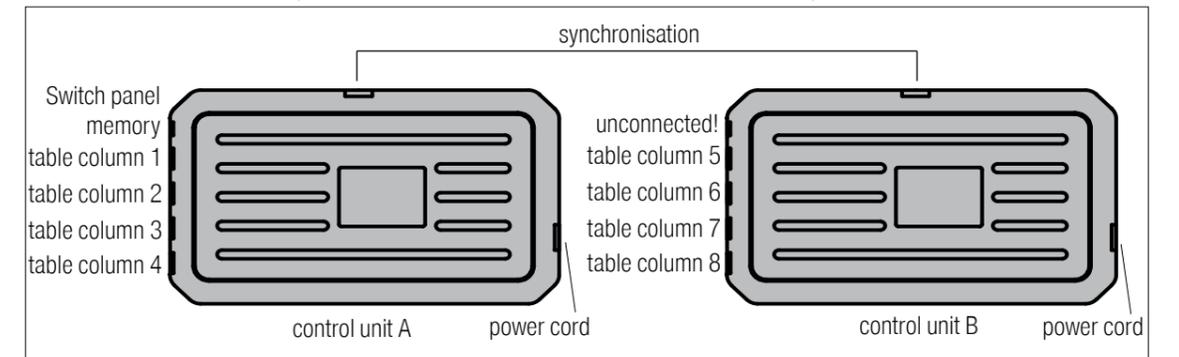


Table column control unit 8 E (0.0.730.51 - control unit A and 0.0.730.52 - control unit B):



INFO!

- The duty cycle is 10%, which means the table columns can be run for two minutes in continuous operation and will then switch off for 18 minutes
- Check the seating of all plug connections.



CAUTION! The control unit has a position sensor and must be mounted horizontally, otherwise an error will be triggered.



NOTE!

Observe the following points when installing and operating the control system:

- The control system and manual controls must be positioned and secured as appropriate to local conditions. If necessary, alter their position.
- The installation site should be dry, free of dust and away from direct sunlight.

The number of table columns used must match the control system. For example, a control system for four table columns cannot be used to control a work bench with just two columns.

- The control system can be operated in a temperature range of between 0 °C and +45 °C.
- Consequently, you should not install the control system:
 - above or in front of heat sources (e.g. radiators)
 - in locations that are exposed to direct sunlight
 - in small, unventilated, damp rooms
 - on or near highly flammable materials
 - near high-frequency devices (e.g. transmitters, radiation-emitting devices or similar equipment).

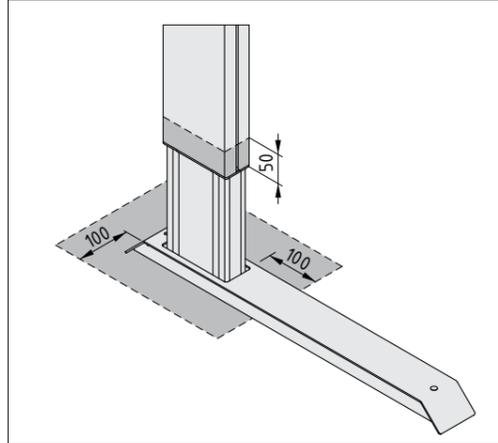
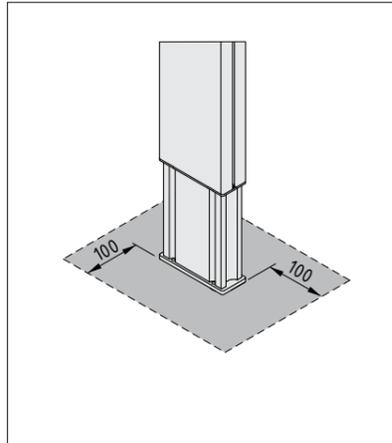


DANGER!

- It is advisable to install surge protection to protect against the types of electrical surges that can occur during thunderstorms. Consult an electrical engineer.
- Never open the control system's housing! Unauthorised opening of the housing and inappropriate repairs can cause hazards for users and shall invalidate the warranty. Only the manufacturer's personnel are authorised to open or repair the electrical systems.
- Do not allow any liquids to penetrate inside the control system, as this could result in an electric shock or short circuit. Use only a dry or slightly damp cloth to clean the control system and the manual controls.
- Ensure that the plug of the mains cable, the cables to the columns and the handswitch in the control unit are correctly and securely seated. If necessary, appropriate strain relief must be provided.

**DANGER!**

- Stop using the device immediately if it begins to emit smoke or an odour, operates in an unexpected way, makes unusual noises or shows visible signs of damage. Disconnect the system from the mains by removing the plug.
- Secure the load and operating equipment in the event of an inclined position in order to prevent damage to persons or material.
- The control system may only be used with item table columns.

**CAUTION!**

Ensure that connecting cables and electrical lines are not bent, pulled or subjected to mechanical loads. Lines, cables, etc. must not be laid in the foot area of the table columns in particular (safety area of approx. 100 mm around the table column feet). In addition, no attachments may be fitted to the lower end of the outer profile of the table column set if the table columns are used with the cantilever foot. A safety distance of more than 50 mm from the lower end of the table column outer profile must be maintained.

**Start-up**

The basic function of the control system is to move the table columns. These functions can be performed via the handset controller (Switch panel memory lifting column 8 160x60 - 1.1.688.17)



DANGER! Before changing the hand control, the power supply must be disconnected; it may be necessary to reset the system (see chapter „Manual RESET“ on page 15).

- When running the drive, please ensure no objects (e.g. furniture) or body parts become trapped.
- To avoid crushing points and collisions, a minimum distance of 80 mm should be kept free around the table columns and thus moving parts.
- Load values must not be exceeded.
- Safety instructions must be followed.
- Inappropriate use of the system can pose hazards to people and equipment.
- The product warranty is valid only when the product is used as intended.
- Table columns must not be subjected to tensile loading.

The height-adjustable construction can be damaged if it comes into contact with obstacles, and its service life may be shortened.

Keep the travel area beneath the table top and the safety area around the table column feet clear.

**DANGER!**

Table design:

Table tops or attachments must be rigidly connected to the drive system. For this reason, it is not permitted to connect the adjustable feet rigidly to the floor. The resulting over-rigid guidance damages the table columns.

In order to ensure safe operation under the final conditions of use, it is the responsibility of the operator to check the entire solution for electrical and mechanical safety for electrical and mechanical and, if necessary, ESD safety in accordance with the standards at the place of destination and to repeat this at appropriate intervals.

Initialising the table columns when starting up the system for the first time (RESET)

When the table columns are used for the first time, **AST** is displayed on the handset controller. At this point, a manual reset is required.

To start the RESET process, press continuously the “DOWN” button. All lifting column will move to the lowest mechanical limit position at the same time and then up until the display shows **730** or, if necessary, the lower end position you have programmed yourself (see chapter „Setting the upper and lower travel limits“ on page 17). The table column set can now be put into operation.

Manual RESET

- A manual reset should be performed while the work bench is in operation (E.g. after replacing a table column or controller)

Fahren Sie die Hubsäulen in die unterste Position. Anzeige: **690**. Dann tippen Sie die Taste “M” und **unmittelbar danach** halten Sie die Taste “AB” gedrückt bis die Steuerung den Resetmodus **AST** anzeigt.. Anschließend gehen Sie vor wie im Kapitel oben “Initialisieren der Tischsäulen bei Erstinbetriebnahme (RESET)”



NOTE! The lowest position is shown as **690** on the display of the hand control. (**730** is an intermediate stop that must be travelled over).



DANGER! During initialisation (RESET), all connected columns ready for use retract fully as far as the mechanical limit stop.

DANGER! During initialisation (RESET), do not restrict the movement of the table columns by means of any mechanical connection or obstacles.

Operation



Manually adjusting the table column height

Use the “DOWN” button to move down and the “UP” button to move up.

The display shows the working height in millimetres for orientation. The exact value depends on the thickness of the table top, the height setting of the levelling feet and, if applicable, the overall configuration. The table columns travel up and down at normal speed for as long as the relevant button is held down. The table columns are automatically stopped before they reach the mechanical stop position.

Safety range



NOTE! A certain section of the table column (a few centimetres before the lower limit position) is referred to as the safety range. When table columns reach this point, they stop. This point is approx. 4cm before the end position. When the “DOWN” button is pressed again, they continue moving down, but at a reduced speed.

Soft start/soft stop

After they are started/before they are stopped, the drives briefly move at reduced speed to ensure gentle, jerk-free operation.

Movement lock

When the movement lock is engaged, the table columns cannot be moved, thereby preventing uncontrolled movement of the construction.

Locking method

Press the “M” button and the “DOWN” button simultaneously for 8 seconds. The screen displays **LOC**. Now the handset controller buttons does not work anymore.

Unlocking method

Is the “LOC” locked state activated, Press the “M” button and the “DOWN” button simultaneously for 8 seconds. The screen jumps back to the usual displays, If you now press a button the system is unlocked.

Memory function

Additional memory function for the storage of height settings and for moving the table to these heights.

The handset controller can save the current position so that you can move directly to the memory position using the ‘M1’, ‘M2’ or ‘M3’ buttons. Three different memory positions can be saved using the three numeric buttons on the handset.

To record the height

1. Manually adjusting the table height
2. Storing a height setting (memory), press the “M”-button first, the screen will displays **S-**
3. Within 5 seconds, press one of the three buttons – “M1”, “M2” or “M3” – to store the height position currently set. Previously saved positions are overwritten.

Lift to the stored position

After the setting of the memory position, the user can press the corresponding button to lift the table directly to the stored position. Hold down one of the three buttons – “M1”, “M2” or “M3” – until the stored position is reached.

Setting the upper and lower travel limits

The travel distance can be limited electronically to prevent a collision with any obstacles in the travel range. The lower end position must remain accessible for referencing, which may also be necessary during subsequent operation.

Set the upper limit

Press the “UP” button to move the table columns to the desired upper travel limit.

Once the columns are in the correct position, press the “M” button of the handset controller, the screen displays **S-**, release the button. Press the “UP” button, the screen flash one time, release the “UP” button and then press the “M” button again for 2 seconds, the screen displays **999** and the upper limit is activated successfully.

Set the lower limit

Press the “DOWN” or “UP” button to move the table columns to the desired lower travel limit.

Once the columns are in the correct position, press the “M” button of the handset controller, the screen displays **S-**, release the button. Press the “Down” button, the screen flash one time, release the “DOWN” button. Then holding “M” button again for another 2 seconds, the screen will displays **000** and the lower limit is activated successfully.



DANGER! Collisions with obstacles in the travel range can cause serious damage and injuries. It is the operator's responsibility to ensure the travel range is clear of any obstacles.

To cancel the upper and lower limit setting

Press the handset controller “M” button, the screen displays **S-**, release the button. Then hold the “M” button again for 2 seconds, the screen displays **555**, the upper and lower limit is cancelled.

Switching between cm / inch

First switch to the RESET mode (see chapter „Manual RESET“ on page 15), the digital displays shows **RST**, now press and hold button “M2” for 5 seconds to switch between inch and centimetre.

- If the digital displays shows **10.3**, after resetting the height value is displayed in centimetres.
- If the digital displays shows **10.4**, after resetting the height value is displayed in inches.

Anti-collision and related Settings



NOTE! To increase safety, the desk column is stopped abruptly and moved briefly in the opposite direction in case of a collision while moving. After the blockage has been cleared, operation can continue.

Set the sensitivity of anti-collision

Start the RESET mode (see chapter „Manual RESET“ on page 15), now press the “UP” button for 5 seconds in RESET mode to change the sensitivity of the collision protection.

To change the sensitivity press the “UP” button again and the screen display switches between:

Display screen	Sensitivity (load increase during the ride)
10.5	high (5 kg - 15 kg)
10.6	medium (10 kg - 25 kg)
10.7	low (15 kg - 35 kg)

Activate and deactivate the anti-collision function

In the normal operation mode, press the combination of button “M” and “UP” for 5 seconds. This enable or disable the anti-collision function.

If the screen displays **10.8**, the anti-collision function is disabled.

If the screen displays **10.9**, the anti-collision function is enabled.



NOTE! Another safety feature is the inclination sensor, which stops the ride if the construction is tilted to a critical angle. For best precision, the controller should be aligned horizontally (vertically with less accuracy). After the inclination has been eliminated, operation can continue.

Modification method of the minimum height of screen displays

In the RESET mode (see chapter „Manual RESET“ on page 15), press the “M” key of the hand controller for 5 seconds. The altitude display flashes on the screen and can be set to the desired level (lower starting altitude) using the “UP” and “DOWN” buttons.

After the new height has been set, do not press any keys for 5 seconds, the screen will return to **RST**. Then press and hold the “DOWN” button until the column stops moving and the previously set height is displayed.

Protection function and measures



NOTE! Black screen caused by:

- Abnormal connection cable
- PCB protection of control box
- The screen damage

NOTE! When the controller is abnormal and the screen displays **E01** - **E13** the screen still keeps the error displays even after re-power on, and pressing any button does not work. You can only enter the reset state by continuously pressing the “DOWN” button for 5s.

NOTE! If the manual controls displays a fault code that is not listed in the table, contact your item service partner.



DANGER! Make sure that all obstacles have been removed and observe the movement closely. In case of unexpected behaviour (e.g. unusual noise, tilting of the construction, smoke or odour), stop operation immediately and secure the construction against restarting and approach in the danger area. Contact your item service partner.



NOTE! The table column sets are equipped with safety functions that stop operation in the case of irregularities and display a notification on the handset. The appropriate measures for restoring the function are listed below. Always act with the utmost focus on safety when carrying them out! If in case of doubt, contact your item service partner.

Display: **H01**

The operating time (limited operating time) of the controller is designed for a maximum operating time of two minutes and a subsequent break of 20 minutes (10% operating time). This means that the error message will disappear after a waiting period of 20 minutes and the controller can be put back into operation.

Display: **E01** - **E04** (Overloading the table column 1-4):

- Check whether there is any interference with the mechanical construction or any uneven weight distribution that is preventing the respective table column from moving (if necessary, eliminate the cause).
- Otherwise, press the “DOWN” button for 5 seconds to enter the RESET state. (Display **RST**). Release the “DOWN” button and press it again to check whether the columns are moving synchronously. If the table columns move synchronously, keep the button pressed until the columns stop moving and the height is shown on the display.
- If the structure begins to tilt, stop operating it immediately. Secure the structure against reuse and against approaching the danger area. Contact your item service partner.

Display: **E13** (Drive monitoring/synchronisation)

- Check the motor cables (and, if necessary, the synchronisation cable between the controllers) and the plug connections. Ensure that the connections are seated correctly and replace any defective parts. Correct any uneven load distribution.
- Press and hold the “DOWN” button for about 5 seconds to enter the RESET state (**RST** display). Press the “DOWN” button again to check the synchronisation of the columns. When the columns move synchronously, press and hold the button until the columns stop moving and the height is shown on the display. The system is ready for use again.->
- If the structure tilts, stop operation immediately. Secure the structure against reuse and against approaching the danger area. Contact your item service partner.

Display: **E07** - **E10** (communication error):

Display	Measures		
E07	Switch the connection of the table column 1 with the table column 2 at the control unit	Press and hold "DOWN"-button for 5 sec. -> AST -> Again "DOWN"-button.	Display: E07 Replace controller
			Display: E08 Replace table column 1
E08	Switch the connection of the table column 1 with the table column 2 at the control unit	Press and hold "DOWN"-button for 5 sec. -> AST -> Again "DOWN"-button.	Display: E08 Replace controller
			Display: E07 Replace table column 2
E09	Switch the connection of the table column 2 with the table column 3 at the control unit	Press and hold "DOWN"-button for 5 sec. -> AST -> Again "DOWN"-button.	Display: E09 Replace controller
			Display: E08 Replace table column 3
E10	Switch the connection of the table column 3 with the table column 4 at the control unit	Press and hold "DOWN"-button for 5 sec. -> AST -> Again "DOWN"-button.	Display: E10 Replace controller
			Display: E09 Replace table column 4

Maintenance and servicing work



Height-adjustable table columns require no maintenance.

- See the error messages section for warning/error messages and solutions.

Disassembly and replacement of parts



WARNING!

Touching live parts can lead to an electric shock, causing serious injuries or death.

- Before carrying out maintenance work, switch off the power supply.
- Put in place suitable measures to prevent the power supply from being switched back on unintentionally.
- Use only original spare parts.

Disposal



The materials used are environmentally friendly.

They can be recycled or re-used (after any necessary refurbishment and replacement of parts). The use of appropriate materials and easy dismantling ensure the product can be recycled.

Improper disposal of height-adjustable table columns can pollute the environment.



You should therefore dispose of them in accordance with the national regulations that apply in your country.

Product development and documentation

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