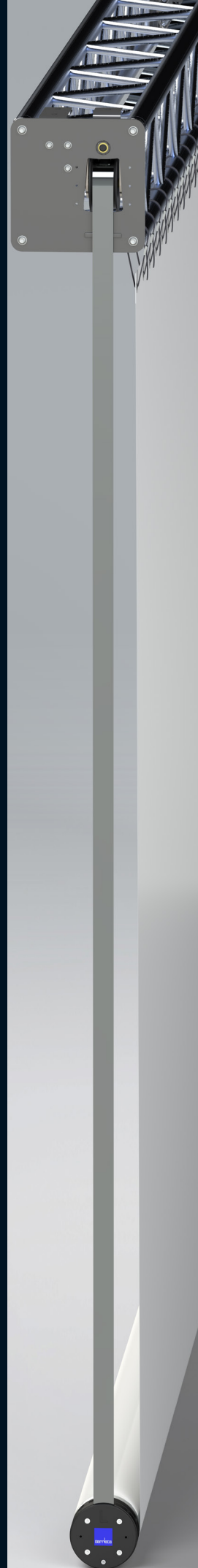


SCREENS **24000**

**EN** Operating manual

**MEGASCREEN S**





Scanning the following QR code or clicking on the previous icon in the PDF view leads you to the MEGASCREEN S product page. There you will find further product information such as videos and application examples.



## Legal notice

This operating manual was created by:

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Note on the original version and translations:

The original operating manual was created in German.

All other language versions are translations of the original operating manual.

Subject to errors and technical modifications.

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# 1 About this document

## 1.1 How to use the operating manual

Basic information on the operating manual

This operating manual is part of the roller screen system MEGASCREEN S including:

- Roller screen MEGASCREEN S – Item no. 24000 04031 (3 m) to 24000 04081 (8 m) and special sizes.
- Control unit G-FRAME 54 – Item no. 32420 00801 (DMX – Item no. 24800 09121).
- Accessories (see *Chapter 2.3 Accessories and spare parts* [► p. 15]).

The operating manual provides important information for safe and efficient use of the product.



- ➔ Read the operating manual and in particular *Chapter 10 Safety* [► p. 55] thoroughly before use.
- ➔ If you have any questions, please contact Gerriets GmbH (for contact details see *Chapter 12.1 Contact us* [► p. 64]).
- ➔ Hand out the operating manual, without being asked, to all persons who work with the roller screen system and its associated components.
- ➔ Keep the operating manual available at all times in the immediate vicinity of the product described.
- ➔ Hand over the operating manual to the new owner when selling the product.

Safety information

In *Chapter 10 Safety* [► p. 55] you find information on the intended use, higher-level safety instructions, information on personnel qualifications, safety and protective equipment, guidelines, and standards as well as the disclaimer.

Specific safety instructions can be found in *Chapter 4 Transport* [► p. 21], *Chapter 5 Assembly* [► p. 24], *Chapter 6 Operation* [► p. 40] and *Chapter 7 Maintenance and servicing* [► p. 43].

Accident prevention regulations

- ➔ In addition to the instructions in this operating manual, the local accident prevention regulations and national health and safety regulations must be observed.

### 1.1.1 Symbols and labelling

Display of a warning notice

Warnings are labelled with a signal word and pictogram and are highlighted separately. On the left-hand side of the warning, additional pictograms may indicate specific hazards (in this example, warning of electrical voltage). Embedded warnings deviate from this scheme.



#### **DANGER**

##### **Type and source of danger**

Possible consequences if the warning is not observed.

- ➔ Measures to avert the danger and its consequences.

## Danger levels of warnings

The signal word, such as “warning”, describes the hazard level:

**DANGER**

High risk of an imminently hazardous situation resulting in serious injury or death.

**WARNING**

Medium risk of a potentially hazardous situation resulting in serious injury or death.

**CAUTION**

Low risk of a potentially hazardous situation resulting in a minor or moderate injury.

**NOTICE**

Risk of a potentially hazardous situation resulting in damage to the product or property of others.

**Explanation of warning and mandatory signs used in the operating manual**

## Warning of specific risks



General warning sign



Warning of suspended loads



Warning of falling objects



Warning of electrical voltage



Warning of obstacles in the head area



General mandatory sign



Observe the operating manual

## Other notes and symbols



Labelling an activity to be carried out (one step)



Labelling of page number references



Labelling the first step



Labelling a direct consequence of an action



Labelling the completion of an action



Labelling of enumerations



Labelling of important information

## 2 Structure and function

### Roller screen system

3 m – Item no. 24000 04031

4 m – Item no. 24000 04041

5 m – Item no. 24000 04051

6 m – Item no. 24000 04061

7 m – Item no. 24000 04071

8 m – Item no. 24000 04081

as well as special forms.

This chapter describes the design, function and main components of the MEGASCREEN S roller screen system. The designations, position references and numbering used in this chapter also apply to the following chapters.

The MEGASCREEN S roller screen system is designed for screen formats up to 8 × 6 m (W × H). The winding and unwinding speed is approximately 0.15 m/s.

The roller screen is supplied with a fully pre-assembled screen fabric and is commissioned and adjusted prior to delivery. The system comprises the roller screen, the G-FRAME 54 control unit including cabling, together with additional accessories depending on the order configuration. The order confirmation and, where applicable, project-specific technical documentation, drawings and wiring diagrams define the actual scope of supply.

The cable connections between the control unit and the roller screen are provided with plug-in connectors at both ends.

### 2.1 Roller screen MEGASCREEN S

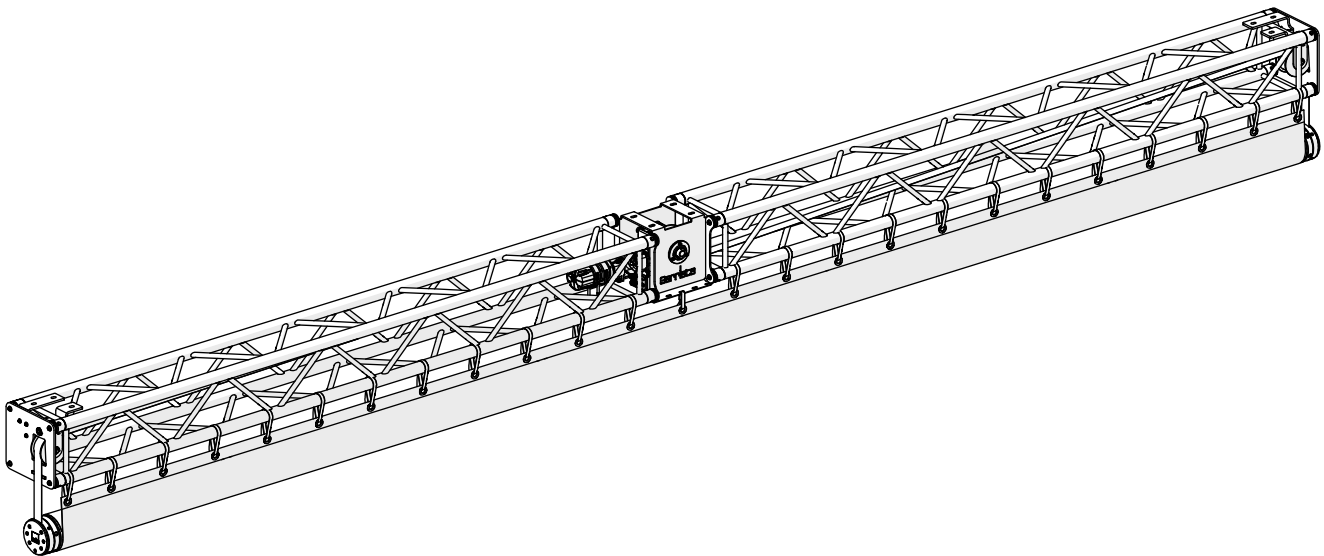


Fig. 1: Overview – Roller screen MEGASCREEN S

#### Roller screen

The roller screen MEGASCREEN S (see Fig. 1) consists of an aluminium truss construction (3/Fig. 2), an aluminium winding shaft (7/Fig. 2) and a centrally mounted drive (1/Fig. 3) for winding the carrying straps (8/Fig. 2).

The carrying straps run over the guide rollers (1/Fig. 2), whereby the coil spring in the winding shaft winds the screen fabric upwards. The screen fabric is attached to the aluminium truss using the Gerriets camlock strap (3/Fig. 3).

The aluminium winding shaft for the front and rear projection (on PVC projection film) has a diameter of 150 mm and an integrated device for retensioning the coil spring via an intermediate ring with locking screws (5/Fig. 2). Furthermore, there is the option for the belt length compensation on the levelling screw to adjust the flatness (6/Fig. 2).

The range limitation concerning the operating and emergency limit switch is carried out via gear limit switches on the motor (see *Chapter 2.1.1 Limit switch and emergency limit switch* [► p. 10]).

The MEGASCREEN S can be attached to the on-site support structure using the suspension points on the drive and each guide roller unit (2/Fig. 2 or 2/Fig. 3) or, optionally, the truss itself. Gerriets offers triangular suspensions with half couplers as an accessory for this purpose (see *Chapter 2.3 Accessories and spare parts* [► p. 15]).

#### Number and designation:

- 1 Guide roller
- 2 Mounting holes on the sheet metal
- 3 Aluminium truss
- 4 Screen fabric
- 5 Intermediate ring with locking screws for tensioning the coil spring
- 6 Levelling screw for belt length compensation
- 7 Aluminium winding shaft
- 8 Carrying strap

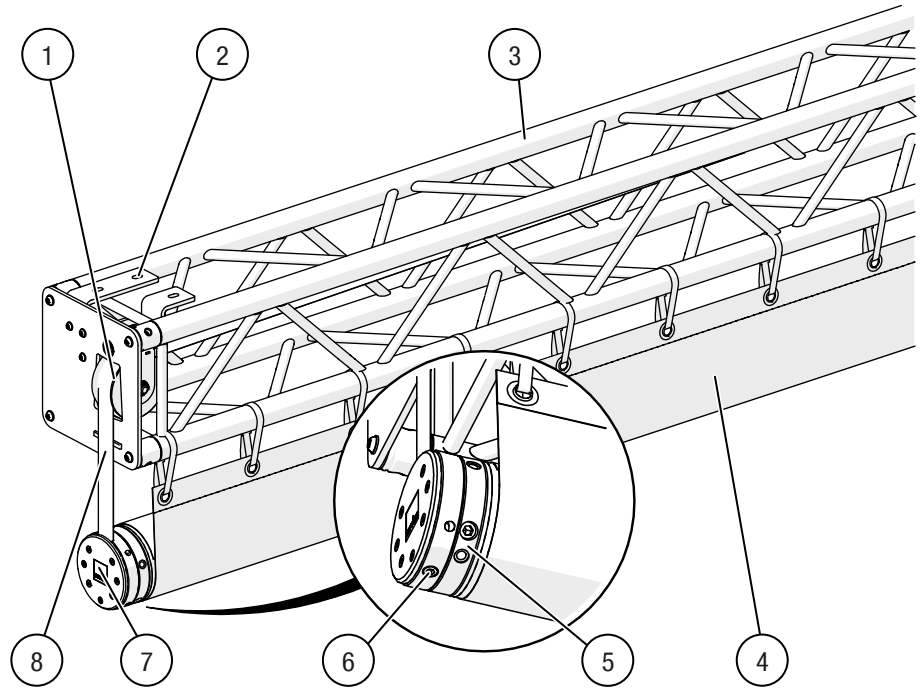


Fig. 2: Overview – MEGASCREEN S (1/2)

#### Number and designation:

- 1 Drive with bobbin
- 2 Mounting holes on the sheet metal
- 3 Gerriets camlock strap
- 4 Signal connection
- 5 Power connection
- 6 Double brake

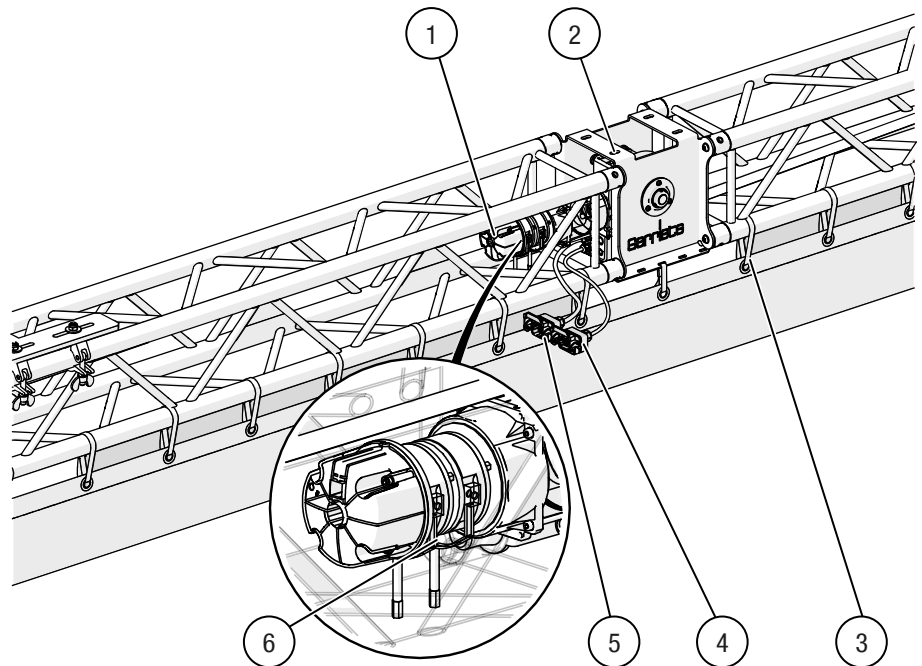


Fig. 3: Overview – MEGASCREEN S (2/2)

### 2.1.1 Limit switch and emergency limit switch

The roller screen MEGASCREEN S is equipped with gear limit switches on the motor unit for the pre-limit, operating limit and emergency limit positions “top” and “bottom”. If the pre-end position (3/Fig. 4 – top or 4/Fig. 4 – bottom) is reached, the drive slows down until it reaches the operational end position (2/Fig. 4 – top or 5/Fig. 4 – bottom). The emergency limit switch positions (1/Fig. 4 – top or 6/Fig. 4 – bottom) are for safety reasons and protect the screen, e.g. if the operational limit switches are overrun due to a defect.

#### Emergency limit switch positions

- 1 Emergency limit switch (top)
- 2 Operational limit switch (top)
- 3 Pre-limit switch (top)
- 4 Pre-limit switch (bottom)
- 5 Operational limit switch (bottom)
- 6 Emergency limit switch (bottom)

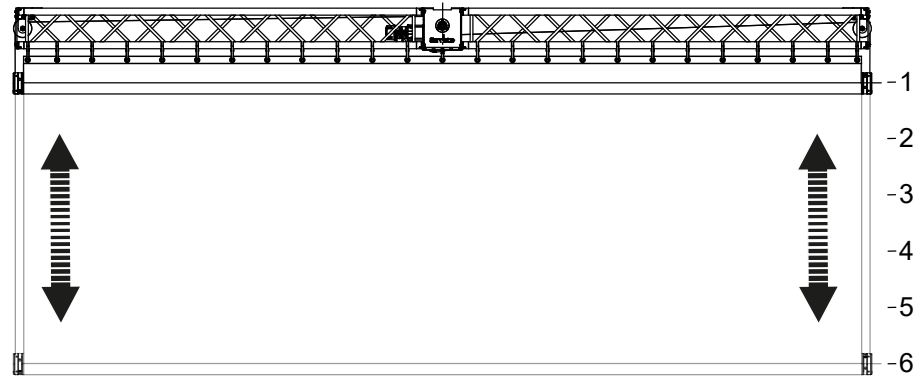


Fig. 4: Roller screen MEGASCREEN S – Limit switch and emergency limit switch

The limit switch positions of the MEGASCREEN S are preset at the factory according to the order and normally require no further adjustment. If an emergency limit position is reached, for example because of a fault, use the key switch to return the roller screen to its normal operating range (9/Fig. 5, [► p. 11]). For safety reasons, three windings of the screen fabric always remain on the winding shaft at the emergency limit position.

## 2.2 G-FRAME 54 control unit

The G-FRAME 54 control unit is used to raise and lower the roller screen and to adjust the travel speed. It can be installed in a 19-inch rack, mounted on a wall or placed on a suitable surface (see *Chapter 5.1.1 Mounting the control unit* [► p. 25]). Depending on the selected control-unit version, a secondary control panel or a DMX module is available. DMX operation requires an additional external emergency stop button and may require further protective measures to ensure intended use (see *Chapter 10.1.1 Intended use* [► p. 55]).

### 2.2.1 Front: control panel

On the front (see Fig. 5) you can see the control panel of the control unit. The main switch (8/Fig. 5) is used to switch on the device, subsequently the control indicator light “ON” (1/Fig. 5) lights up. The main switch (8/Fig. 5) disconnects / connects the control unit from the power supply and can be secured in the 0-position using a padlock (lock not included in the scope of delivery).

Press and hold the “UP” button (2/Fig. 5) to move the screen upwards and the “DOWN” button (4/Fig. 5) to move it downwards. The respective button must be kept pressed throughout the entire movement and illuminates while the screen is moving.

The potentiometer (5/Fig. 5) can be used to adjust the speed of the upward and downward movement and thereby reduce the maximum operating speed of the system.

The red flashing “Error” indicator (3/Fig. 5) indicates a fault (see *Chapter 8 Troubleshooting* [► p. 50]). It is not a pushbutton and has no operating function. Pressing the emergency stop button (6/Fig. 5) immediately stops the entire system.

The key switch (9/Fig. 5) may only be operated using the corresponding key. It is used to return the roller screen to its normal travel range after an emergency limit switch has been triggered.

The optional internal/external switch (7/Fig. 5) can be used to switch between operation via the G-FRAME control unit and external operation via the secondary control panel or a DMX control unit.

#### Number and designation:

- 1 “ON” indicator light
- 2 Button for moving the screen upwards
- 3 Indicator light “Error”
- 4 Button for moving the screen downwards
- 5 Potentiometer for speed adjustment
- 6 Emergency stop switch
- 7 Internal/external switch (only available if a second control panel or DMX is provided; optional)
- 8 Main switch
- 9 Key switch for approaching and moving the system out of the emergency limit position

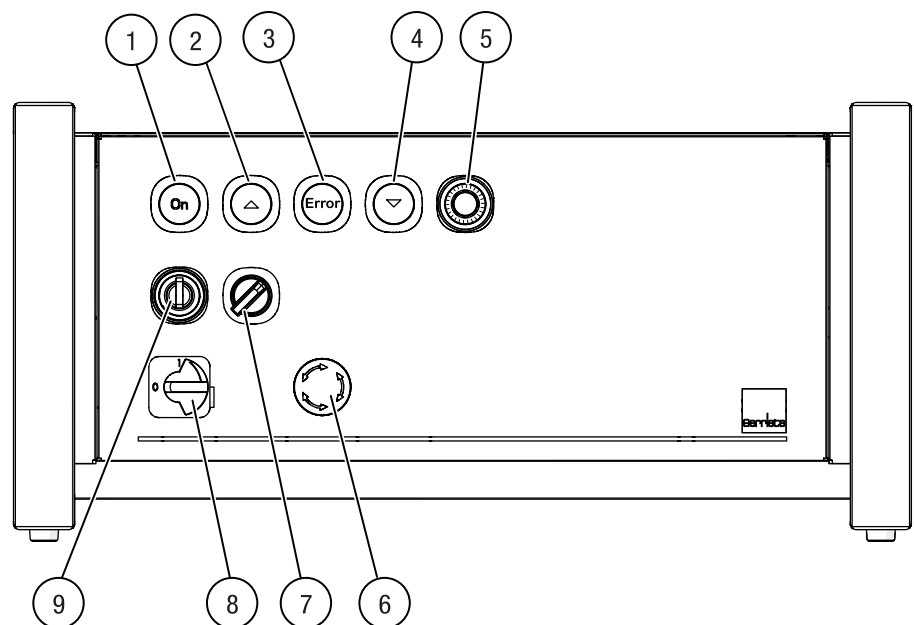


Fig. 5: Front – Control unit G-FRAME 54

## 2.2.2 Rear: connections and settings

The mains supply cable of the G-FRAME control unit is routed into the enclosure through the cable gland on the rear side (10/Fig. 6) and connected to the terminals inside the control unit.

The drive unit of the roller screen is supplied with power via the power cable connector (2/Fig. 6).

The control signals are transmitted to the roller screen via the control cable connector (3/Fig. 6).

Optional secondary control panel / control via DMX

Operation via a secondary control panel or DMX is optional. In these cases, you will find the connection on the back of the G-FRAME control unit (4, 5 and 6/Fig. 6).

The knurled screw (7/Fig. 6) can be used to open the cover of the DMX address rotary switches (8/Fig. 6). With these DMX address rotary switches, the DMX start address can be set. The associated DMX-status-LED (9/Fig. 6) indicates the status of the DMX connection. Control via DMX, e.g. via a DMX control unit, is carried out via the DMX-IN-socket (5/Fig. 6). The signal can be looped through to further devices via the DMX-OUT-socket (6/Fig. 6).

### Number and designation:

- 1 Emergency stop connection (optional)
- 2 Power cable plug
- 3 Control cable plug
- 4 Connection of secondary control panel (optional)
- 5 DMX-IN-socket (optional)
- 6 DMX-OUT-socket (optional)
- 7 Knurled screw for cover DMX setting (optional)
- 8 DMX address coding switches for DMX address (optional)
- 9 DMX-status-LED (optional)  
*red = no connection / error*  
*green = ready for use*
- 10 Power supply (connection provided by the customer)

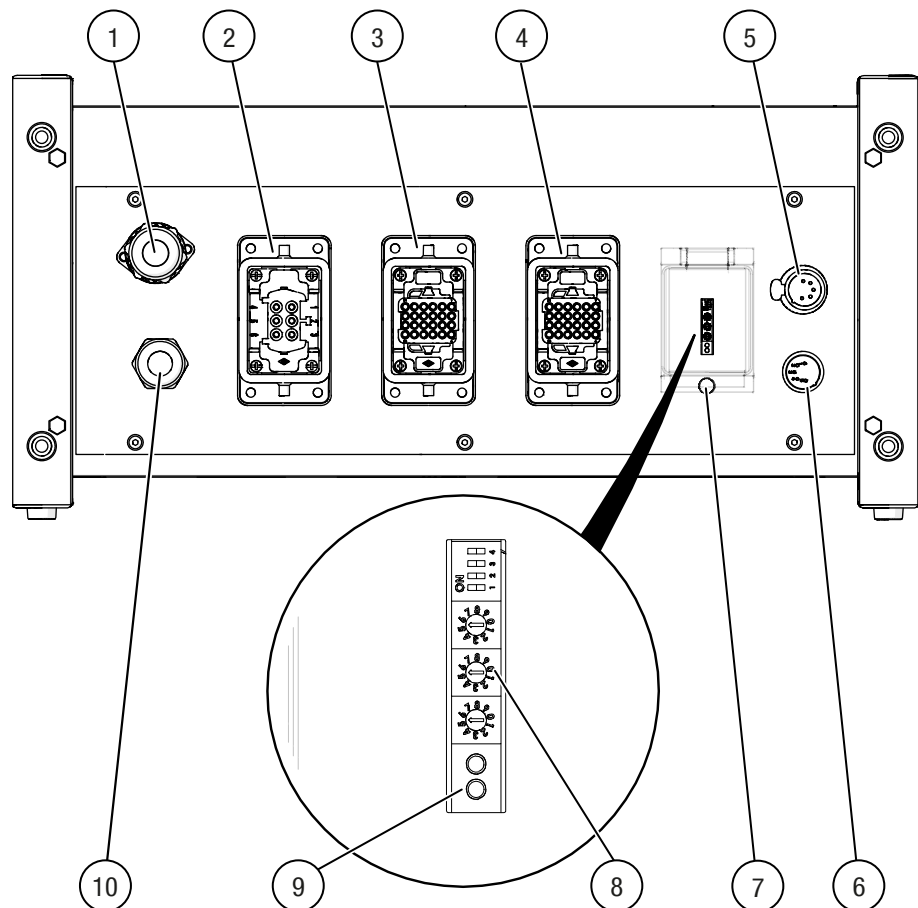


Fig. 6: Rear – Control unit G-FRAME 54

### Control variants

The control unit G-FRAME 54 can be ordered in the standard version or with an additional DMX card.

Both versions differ in their features and connection options:

- G-FRAME 54 control unit for MEGASCREEN S  
(Item no. 32420 00801)  
Incl. 25 m control and drive cable for roller screen
- Additional board for DMX – up/down and speed  
Item no. 24800 09121  
Recommended accessories: Emergency stop button for DMX operation  
(Item no. 24800 08011)

### 2.2.3 Wiring diagram

Connection of the roller screen system

The connection diagram for the MEGASCREEN S roller screen and the G-FRAME 54 control unit is shown below (see Fig. 7).

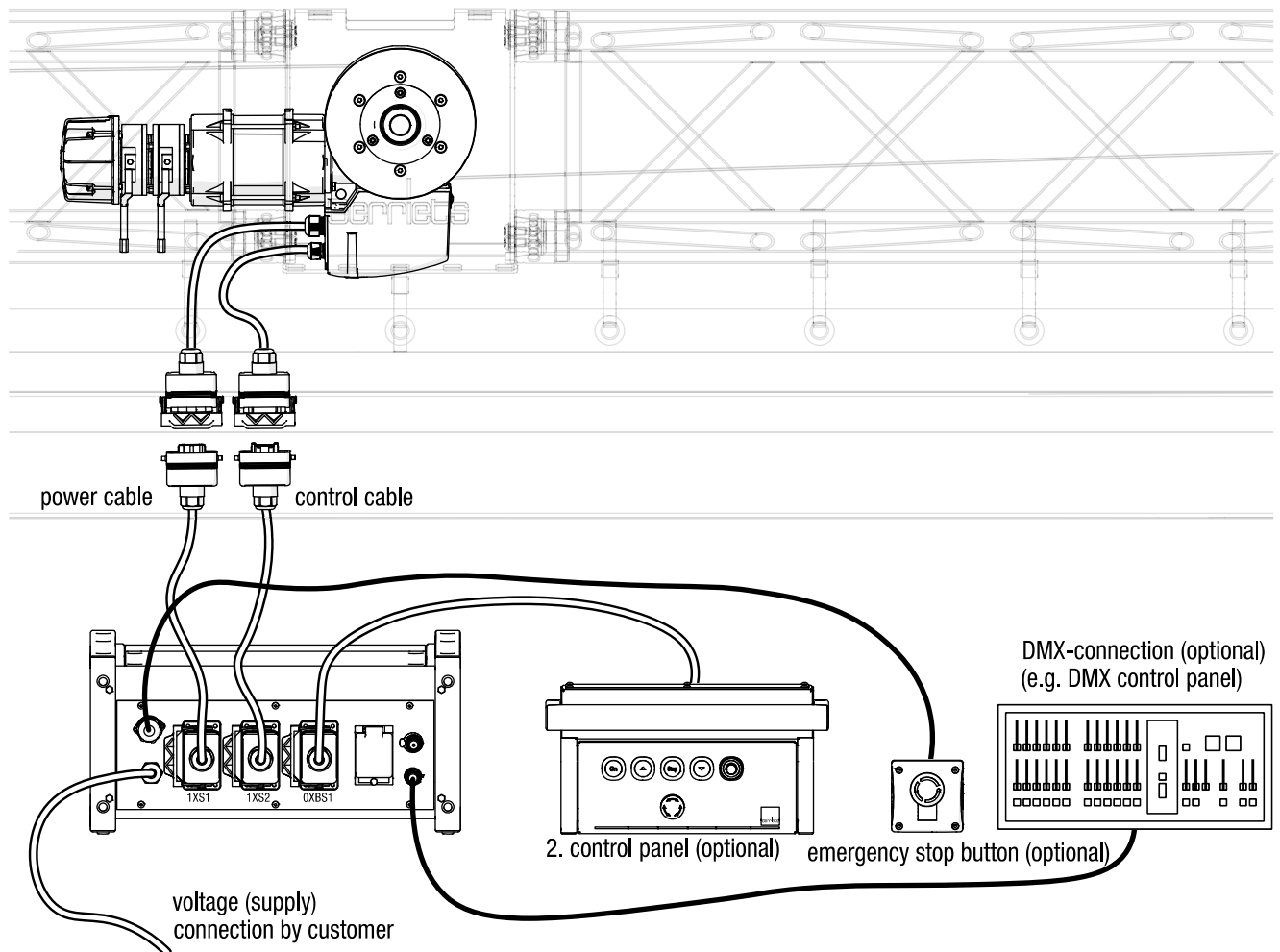


Fig. 7: Connection diagram – G-FRAME 54 control unit for MEGASCREEN S

## 2.2.4 DMX control

For communication with an external DMX controller, the G-FRAME 54 control unit must be assigned a DMX start address. The red DMX address coding switches on the DMX card are located behind a cover on the rear of the G-FRAME 54 control unit. Use these switches to set the required DMX address (see **8**/Fig. 6). Connect the external DMX controller to the DMX-IN socket on the rear. The G-FRAME 54 control unit supports the DMX512, DMX512-A and RDM protocols.

### DMX addresses and commands

Start address: Move upwards

Start address +1: Move downwards

Start address +2: Set speed



---

When controlled via DMX, the conformity of the system is no longer given and the operator must take appropriate measures to ensure safety (see also *Chapter 10.1.1 Intended use* [► p. 55]).

---

### DMX status LED

If the status light next to the address selection lights up green, the system is ready for control via DMX. If the status light is red, there is an error, for example because the DMX cable is not connected (see also *Chapter 8 Troubleshooting* [► p. 50]).

### Remote Device Management (RDM)

RDM extends DMX512 by adding bidirectional communication between the controller and connected devices. The master device can assign DMX addresses automatically.



---

When the control unit is connected to an RDM controller, a manually set DMX address may be overwritten by the controller and therefore have no effect. To reset the address assignment, select start address 900.

---

## 2.3 Accessories and spare parts

### ! NOTICE

#### Material damage due to non-original spare parts and accessories

The use of parts from other manufacturers may jeopardise the proper functioning of the MEGASCREEN S and lead to malfunction or damage to the system or third-party property.

→ Only use original parts and accessories from Gerriets GmbH

#### 1 Triangular suspension

Item no. 43030 00201

#### 2 Control and drive cables for variable speed 25 m (incl. in the scope of delivery)

Control and drive cable extension

5 m – Item no. 24800 07304

15 m – Item no. 24800 07305

25 m – Item no. 24800 07306

Max. total cable length incl. extension cable 40 m

#### 3 Wall mounting plate G-FRAME / mounting bracket for 19-inch rack (included in scope of delivery)

#### 4 External emergency stop button for DMX operation

Item no. 24800 08011

#### 5 Secondary control panel for variable speed incl. cable and wall mounting plate

337 × 125 × 175 mm

(L × H × W)

Item no. 24800 07201

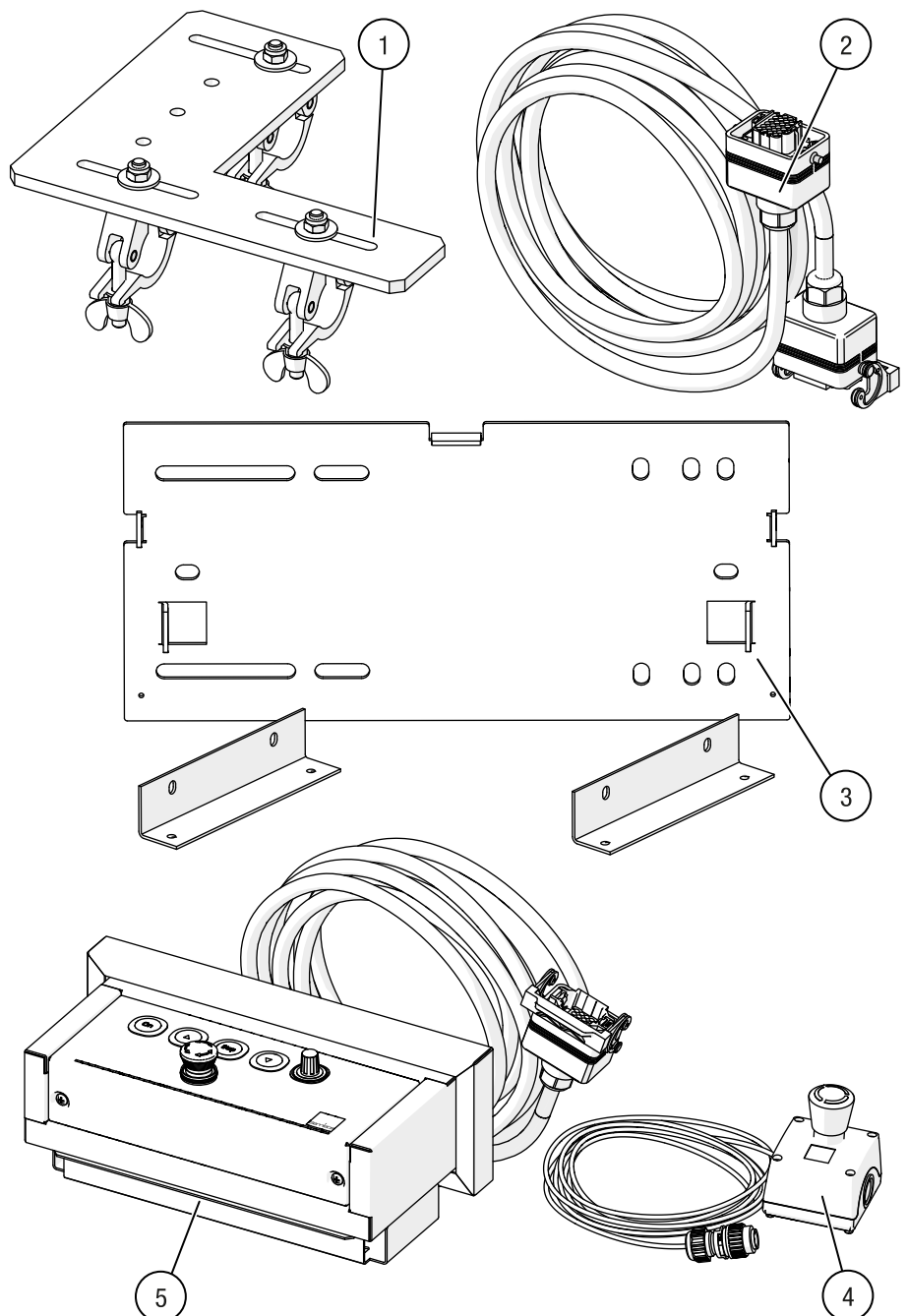


Fig. 8: Accessories – Roller screen system MEGASCREEN S

### 3 Technical data

#### 3.1 Ambient conditions

Ambient conditions and operating parameters

| Parameters                       | Value                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------|
| Permissible temperature at rest  | +5 °C to +40 °C                                                                                       |
| Min. temperature during movement | +20 °C                                                                                                |
| EMC                              | Corresponds to the EMC Directive 2014/30/EU and the EMC standards for use in industrial environments. |
| Moisture/wetness                 | Only suitable for dry indoor areas:<br>IP54 (MEGASCREEN S)<br>IP40 (G-FRAME 54).                      |
| Connection                       | Socket outlet with 10 A circuit breaker and residual current device (RCD).                            |

Tab. 1: Roller screen system – Ambient conditions and application parameters

#### NOTICE

##### **Damage to the roller screen system due to wetness and wind**

The roller screen system MEGASCREEN S is not designed for use in wet or windy conditions and may be damaged.

- ➔ Use the roller screen system exclusively indoors.
- ➔ Outdoor use is only permitted in exceptional cases. Protect the roller screen system from moisture and wind.

#### 3.2 MEGASCREEN S roller screen

Mechanical data

| Parameters                                                                                | Value                                                                                        |
|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Weight depends on the tube length (excluding screen fabric, control and connection cable) | 3 m – 170 kg<br>4 m – 180 kg<br>5 m – 190 kg<br>6 m – 200 kg<br>7 m – 210 kg<br>8 m – 220 kg |
| Dimensions                                                                                | See Fig. 9                                                                                   |
| Max. screen fabric weight                                                                 | Max. 40 kg                                                                                   |
| Speed                                                                                     | 0.15 m/s                                                                                     |
| Fastening                                                                                 | Truss, triangular suspension or drill holes in the metal sheets.                             |
| Max. lifting height                                                                       | 6 m (may vary depending on order)                                                            |

Tab. 2: Roller screen MEGASCREEN S – Mechanical data

**Description of the dimensions:**

1 Tube length ( $x$ ) \*

2 Screen width  
 $\text{tube length } (x) - 50 \text{ mm}$

3 Total length  
 $\text{tube length } (x) + 125 \text{ mm}$

\*The tube length ( $x$ ) is the reference dimension for the specified dimensions.

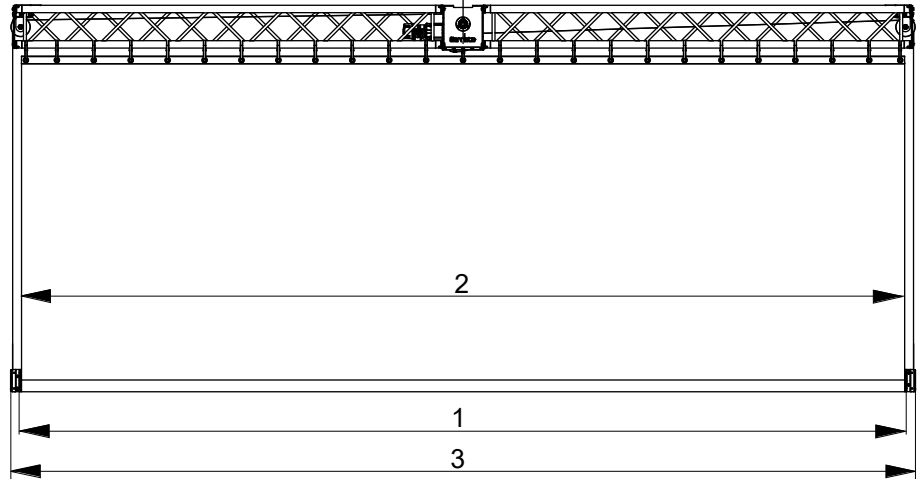


Fig. 9: Roller screen MEGASCREEN S – Dimensions front view

**Description of the dimensions:**

1 Depth of the roller screen (total)

2 Height of the roller screen  
 (retracted)

3 Height of the roller screen with  
 triangular suspension (optional)

4 Depth of the roller screen with  
 triangular suspension (optional)

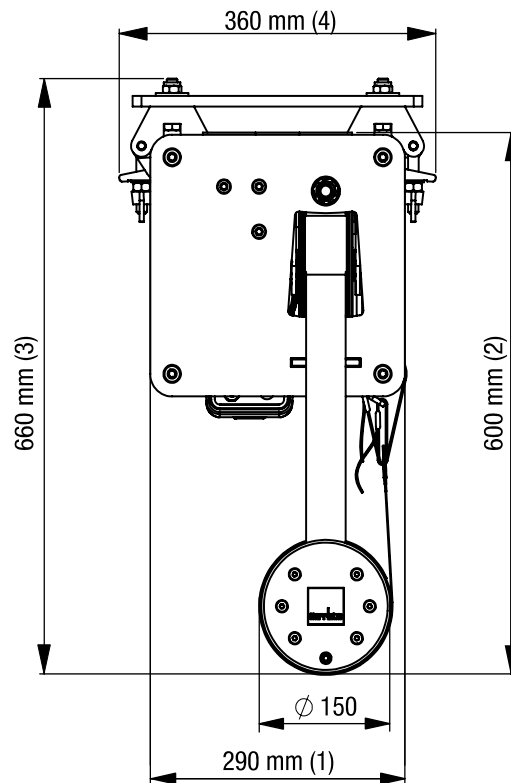


Fig. 10: Roller screen MEGASCREEN S – Dimensions side view

Minimum dimension of the suspension points of the roller screen

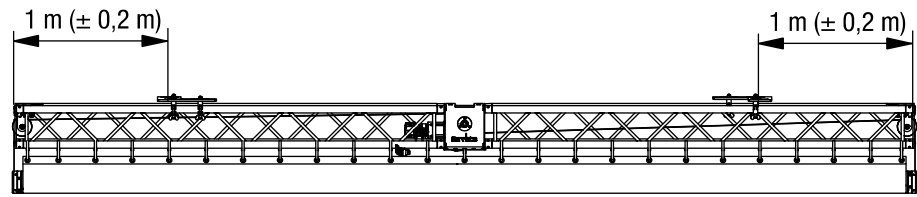


Fig. 11: Roller screen MEGASCREEN S – Suspension points



When attaching the MEGASCREEN S with only two points, we recommend a distance of 1 m (± 0.2 m) from the end of the truss for all system widths (from 3 to 8 m).

Electrical data

| Parameters                                                     | Value                                                                                                                                                      |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical data of the drive unit                              | 3 × 230 V / 400 V AC, 0.55 kW, 50 Hz                                                                                                                       |
| Degree of protection                                           | IP54                                                                                                                                                       |
| Electrical connection                                          | <ul style="list-style-type: none"> <li>Rectangular power cable connector with bracket</li> <li>Control cable rectangular connector with bracket</li> </ul> |
| Control unit connection cable (included)                       | 25 m                                                                                                                                                       |
| Operating mode / motor duty cycle (intermittent periodic duty) | S3                                                                                                                                                         |
| Rated motor current (A)                                        | 4.1 / 2.4                                                                                                                                                  |
| Max. operating cycles per hour (opening and closing)           | 20                                                                                                                                                         |
| On-site fuse protection (A)                                    | 10                                                                                                                                                         |

Tab. 3: Electrical data – Roller screen MEGASCREEN S

3.3 Control unit G-FRAME 54

Mechanical data

| Parameters | Value                   |
|------------|-------------------------|
| Weight     | 16.5 kg                 |
| Dimensions | See Fig. 12 and Fig. 13 |

Tab. 4: Mechanical data – Control unit G-FRAME 54

Dimensions: Front view

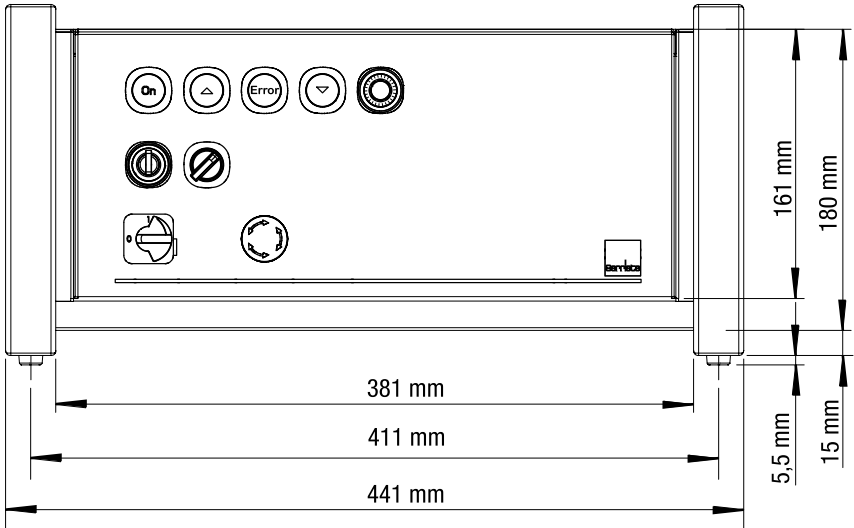


Fig. 12: Front view – G-FRAME 54 control unit (example)

Dimensions: Side view

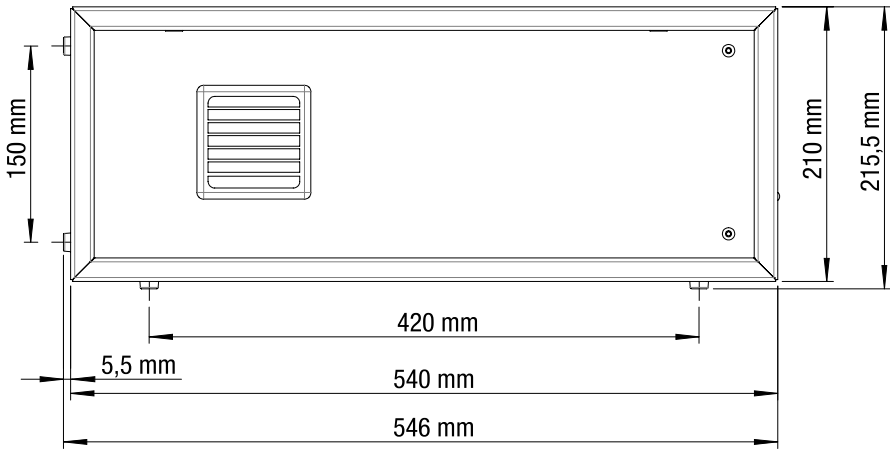


Fig. 13: Side view – G-FRAME 54 control unit (example)

## Electrical data

| Parameters                      | Value                                                                                                                                                                                                                |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical data                 | <ul style="list-style-type: none"> <li>230 V AC, 8 A, 50 Hz</li> <li>120 V AC, 15 A, 60 Hz</li> </ul>                                                                                                                |
| Degree of protection            | IP40                                                                                                                                                                                                                 |
| Electrical connection           | Connection for external emergency stop button, cable gland for power supply connection, MEGASCREEN S connection (power, control), secondary control panel connection, <i>DMX-IN</i> -socket, <i>DMX-OUT</i> -socket. |
| Connection cable (not included) | Mains connection cable, customer-side: <ul style="list-style-type: none"> <li>NYM-J 3 × 1.5 mm<sup>2</sup></li> </ul>                                                                                                |

Tab. 5: Electrical data – Control unit G-FRAME 54

## 4 Transport

### 4.1 Transport information



- ➔ Check the packaging for transport damage immediately upon receipt. Report any visible damage immediately.
- ➔ Ensure that the delivery is complete by checking the delivery note.
- ➔ Make sure to file a complaint about any missing or damaged parts immediately.
- ➔ Keep the original packaging for later transport or storage.
- ➔ Consider the safety instructions in *Chapter 10 Safety* [► p. 55].
- ➔ Carry out a visual inspection after each transport and periodically during the life cycle.

---

#### NOTICE

##### **Material damage due to an insufficiently acclimatised roller screen**

When using the roller screen system MEGASCREEN S at excessively low temperatures, the screen film can become brittle and be damaged, e.g. by stress whitening.

- ➔ Allow the MEGASCREEN S roller screen system to acclimatise slowly to room temperature before first use and after transport or storage in unheated rooms.
  - ➔ Only operate the roller screen within the permitted temperature range (see *Chapter 3.1 Ambient conditions* [► p. 16]).
- 



#### WARNING

##### **Personal injury and property damage due to incorrectly executed or improper transport**

Incorrect or improper transport can cause goods to fall and result in personal injury or material damage.

- ➔ Wear the necessary personal protective equipment (safety shoes, gloves).
  - ➔ Use suitable aids or carrying devices (e.g. lifting devices, carrying straps).
-

## 4.2 Release and attach the transport lock

After the delivery, the roller screen MEGASCREEN S is secured with a transport lock in a wooden transport case. The transport lock protects the roller screen and must be removed before installation or reattached before transport.

### Materials / tools

| Quantity | Materials / tools                       |
|----------|-----------------------------------------|
| 1        | Open-ended spanner AF 13 (not included) |
| 1        | TORX® key T30 (not included)            |
| 1        | Slotted screwdriver (not included)      |

Tab. 6: Materials and tools required

### Releasing the transport lock

1. Open the transport case.
2. Lift the MEGASCREEN S roller screen out of the transport case using suitable lifting gear including the transport lock and take the weight off the transport feet.
3. Loosen the screw connection of the threaded rods on one side using an AF 13 open-ended spanner (see Fig. 14).
4. Loosen the pipe clamps on both transport feet by levering the pipe clamps open with a slotted screwdriver (the design of the pipe clamps may vary depending on the manufacturer; see Fig. 14).

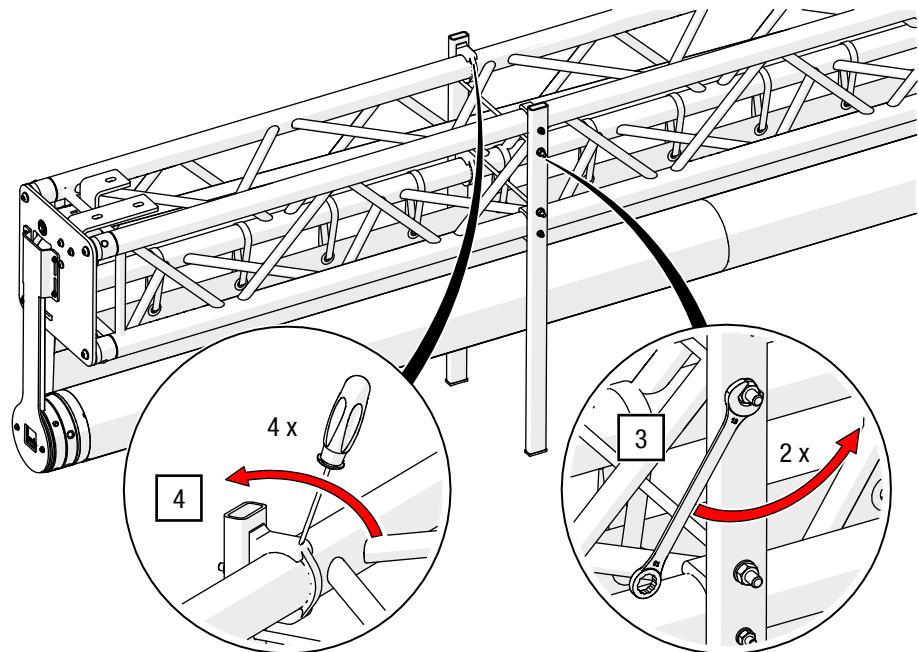


Fig. 14: Loosen transport feet

5. Loosen the locking plates on the sides with a TORX® key T30 (see Fig. 15).

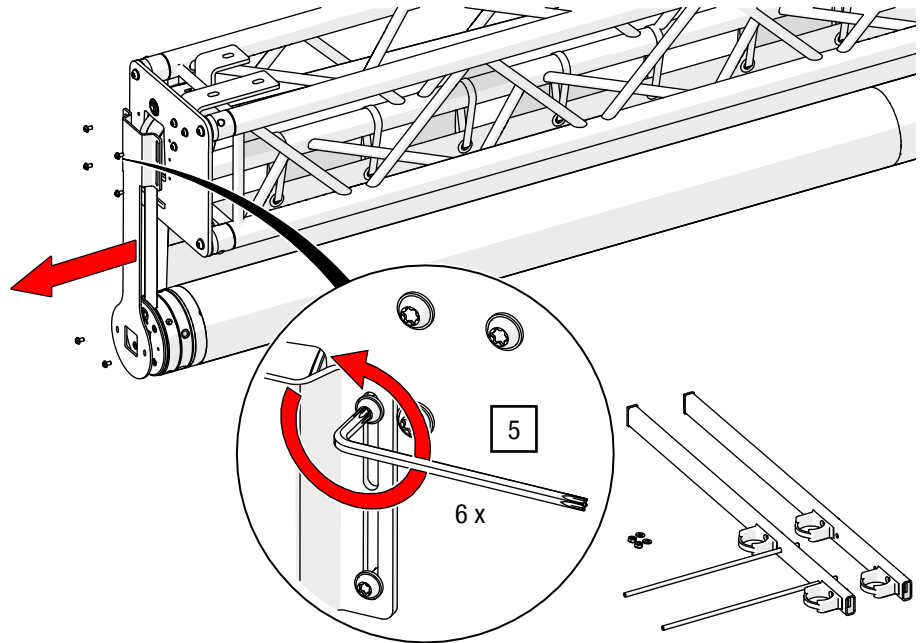


Fig. 15: Release transport lock

6. Check that all components are present in accordance with the scope of delivery.



Keep the transport lock and the feet including all screws and, if necessary, the transport case for later storage or transport.

#### Attaching the transport lock

1. Move the MEGASCREEN S roller screen to the upper operating limit position.
2. Detach the roller screen from its mounting situation (according to the customer's installation).
3. Attach the pipe clamps of the transport feet (design may vary depending on the manufacturer) to the truss of the roller screen.
4. Tighten the threaded rods of the transport feet hand-tight using an AF 13 open-ended spanner.
5. Screw the locking plates to the side of the roller screen using a TORX® key T30 hand-tight.
- ✓ The transport lock is correctly attached. Position the roller screen in the transport case for further transport or storage.

## 5 Assembly

### Safety notes



- Consider the safety instructions in *Chapter 10 Safety* [► p. 55].
- The roller screen system must be installed by qualified personnel only.
- If you encounter problems during installation that you cannot solve yourself, please contact us.



### **DANGER**

#### **Danger to life due to electrical voltage**

When working on the electrical installation, there is a danger to life due to high voltages.

- Never open the housing while it is connected to a power source.
- Ensure that the system is de-energised before working on and in the terminal box.
- Electrical installation work must only be carried out by qualified specialists.
- If the power supply is damaged, switch off immediately and arrange for repairs.
- Keep moisture away from live parts.
- Never bypass the fuses or put them out of operation.



### **WARNING**

#### **Personal injury and property damage due to falling objects**

If the load-bearing capacity of the ceiling structure or individual components is too low, objects may come loose and fall, resulting in death, serious injury or damage to property.

- Take into account the maximum load-bearing capacities of the overall system and individual assemblies.
- Ensure that the existing substructure of the building has sufficient load-bearing capacity for the installation of the MEGASCREEN S.
- Check whether the building's stability certificate covers the additional load or whether even a further check by a structural engineer or reinforcement is necessary.
- Do not make any changes, additions, or conversions to the roller screen or individual components of the system unless authorised in writing by Gerriets.
- Always assemble the screw connections of the parts with the aid of the specific assembly instructions and tables for tightening torques.
- Always insert securing elements such as rings, clips, and pins correctly and check their effectiveness.
- Secure the load with secondary safeties.
- Check the mounting equipment for suitability and permissible load-bearing capacity before use.

## 5.1 Installing and setting up the G-FRAME 54 control unit

Requirements for mounting the control unit

| Component             | Necessary requirements                                                                                                                                                                                               |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical connection | <ul style="list-style-type: none"> <li>Alternating voltage 230 V AC, 50 Hz or 120 V AC, 60 Hz; socket outlet with a 10 A circuit breaker.</li> <li>All line conductors with RCD earth-current monitoring.</li> </ul> |

Tab. 7: Requirements for mounting and setting up the control unit

### **WARNING**

#### **Risk of injury if original parts are not used**

Failure to use original parts may impair the function and safety of the roller screen system.

- Only use original parts from Gerriets GmbH unless otherwise specified.
- If you are unsure about your project, please contact the company Gerriets GmbH.

### 5.1.1 Mounting the control unit

Below you will find the instructions for the three different installation options for the G-FRAME control unit: on a table, on the wall or in a 19-inch rack.



There must be a clear view of the travel range from the operating position. If necessary, a second person with an unobstructed view of the danger zone must give the operator the instructions for moving the unit. It is also possible to monitor the danger zone using a video system.

#### **Installation location: Table**

The supporting surface (table, shelf or similar) must be at least 440 × 220 × 650 mm (W × H × D) and capable of supporting the weight of the control unit.

### **NOTICE**

#### **Material damage due to unsuitable installation of the control unit**

Despite its rubber feet, the control unit can fall off the table and be damaged if the cables are pulled or bumped.

- Place the control unit on a surface with a raised edge.
- Protect the control unit from third-party interference during operation.
- Secure and route the cables properly.

**Installation location: Wall**

## Prerequisites

## Wall mounting

| Component            | Necessary requirements                                                                                                                                                                                    |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G-FRAME control unit | <ul style="list-style-type: none"> <li>The control panel is mounted on the front of the horizontal control unit (see Fig. 16)</li> <li>The control unit is disconnected from the power supply.</li> </ul> |
| Wall mounting plate  | The wall mounting plate is fastened at the intended mounting position using 4 × screws (Ø hole 8.5 mm; fastening materials not included in the scope of delivery).                                        |

Tab. 8: Requirements for wall mounting

- ➔ Consider the load-bearing capacities of the wall material and screw connection.

## Materials / tools

## Wall mounting

| Quantity | Materials / tools             |
|----------|-------------------------------|
| 1        | Allen key AF 3 (not included) |
| 1        | Allen key AF 6 (not included) |
| 1        | Control unit G-FRAME 54       |
| 1        | Wall mounting plate           |
| 1        | Hexagon socket screw M8 × 30  |

Tab. 9: Materials and tools required for wall mounting

## Instructions for wall mounting

- De-energise the control unit before working in the housing and secure it against being switched on again.
- ⚠ WARNING:** Electrical voltage can cause death or serious injury.
- Loosen the control panel with the Allen key AF 3 on both sides (see Fig. 16).
- Lift the control panel from the control unit housing (see Fig. 16).

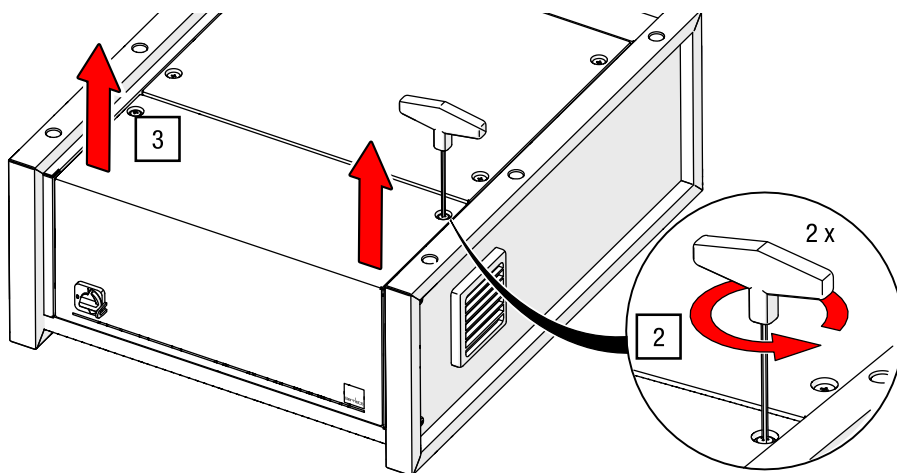


Fig. 16: Release and lift the control panel (control model may differ)

Positioning the detached control panel

4. and 5. Rotate the control panel by 180° and then tilt it by 90° so that it is orientated as shown in Fig. 18 (rotation see Fig. 17).

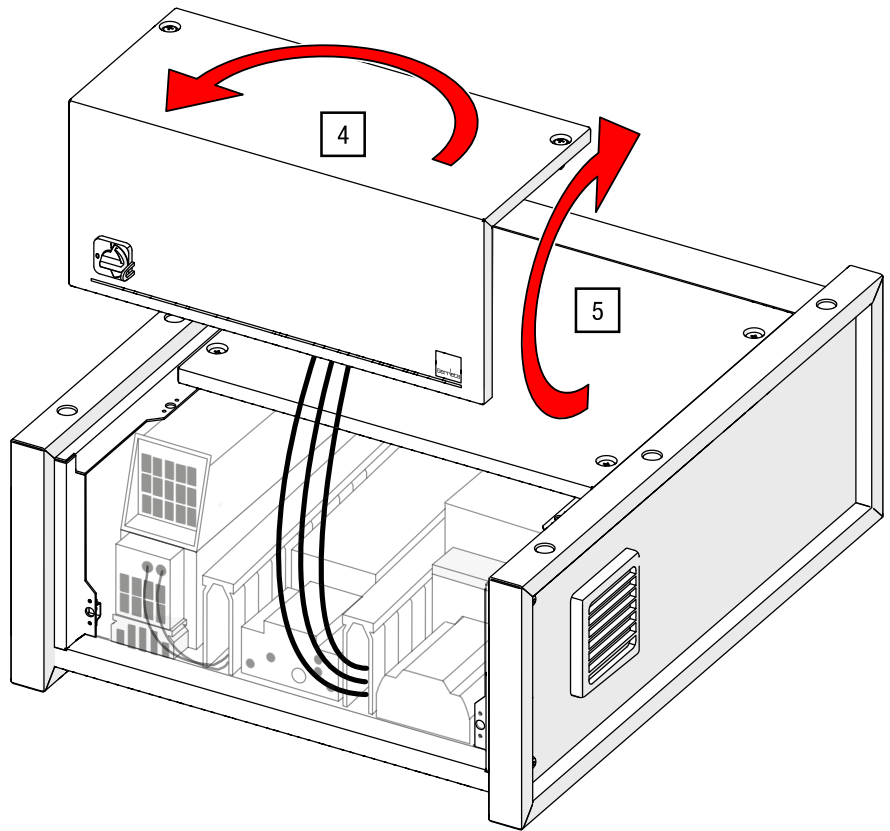


Fig. 17: Rotate detached control terminal (control model may differ)

Insert control panel

6. Place the control panel back on the control housing (see Fig. 18).




---

Do not screw the control panel in place yet. You will need to access the inside of the housing for further steps during installation.

---

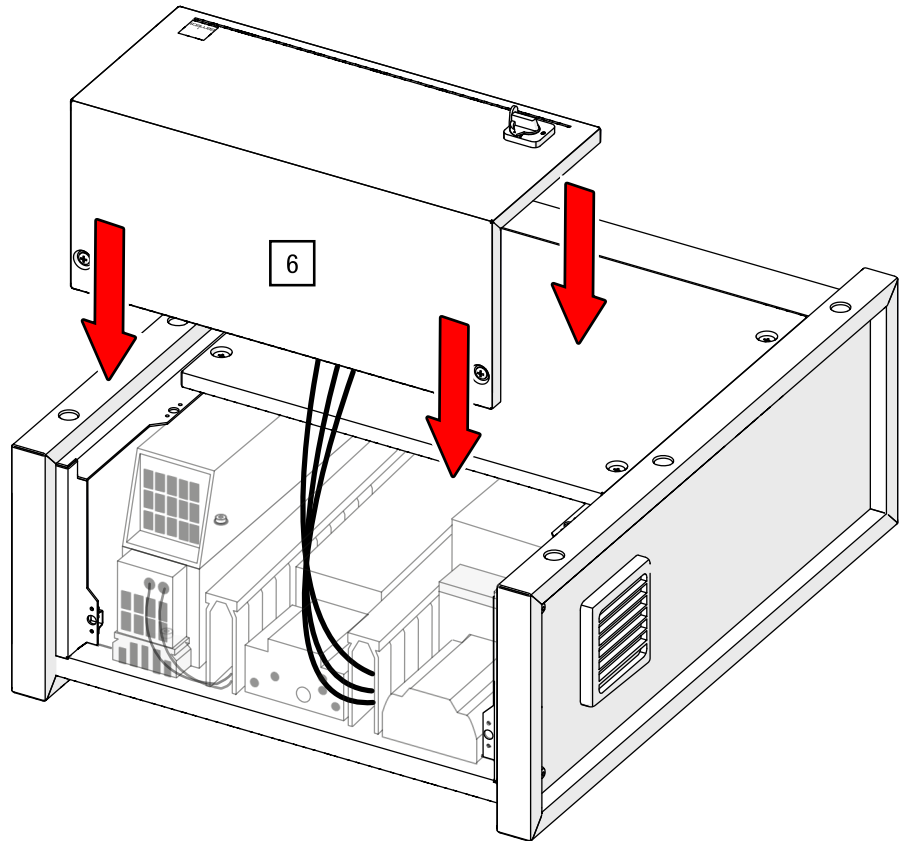


Fig. 18: Insert terminal (control model may differ)

## Screw the control unit to the wall

7. Set up the control unit and hang it in the two hooks of the wall mounting plate already pre-mounted on the wall using the slots provided on the back (see Fig. 19).
8. Lift off the control panel and secure the control unit to the wall mounting plate using the enclosed M8 × 30 hexagon socket screw (see Fig. 19).



You will find the open threaded hole for the locking screw in the centre of the upper interior of the control unit. The locking screw is tightened with an Allen key AF 6 until it presses against the wall mounting plate.

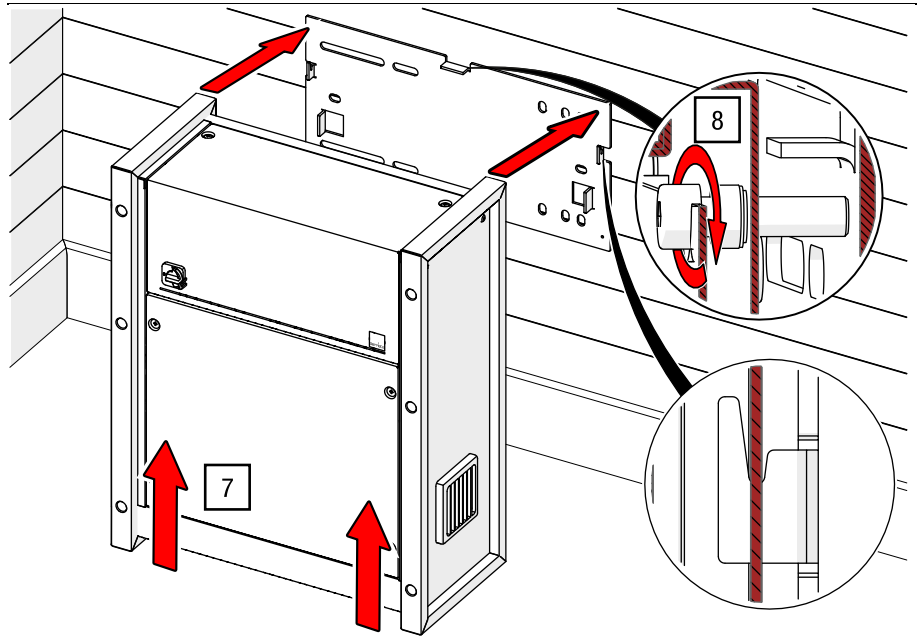


Fig. 19: Fixing the control unit to the wall mounting plate (control unit model may vary)

9. Put the control panel in the control unit housing and fasten the control panel with the Allen key AF 3.
  10. Check that the control unit is firmly seated.
- ✓ The control unit is now firmly mounted on the wall. You will find the cable connections at the bottom.

Installation location: Server cabinet/rack



Use a second person or lifting aids to position and screw the control unit into the 19-inch rack.

| Component                    | Necessary requirements                                                                  |
|------------------------------|-----------------------------------------------------------------------------------------|
| G-FRAME control unit         | The control panel is mounted on the front of the horizontal control unit (see Fig. 20). |
| 19-inch rack (customer-side) | The rack is accessible from the rear for connecting the cables.                         |

Tab. 10: Requirements for rack mounting

Materials / tools

| Quantity | Materials / tools                                                                             |
|----------|-----------------------------------------------------------------------------------------------|
| 1        | Allen key AF 4 (not included)                                                                 |
| 1        | Control unit G-FRAME 54                                                                       |
| 2        | Mounting bracket for 19-inch rack                                                             |
| 4        | Hexagon socket screw M5 × 10 (pre-assembled on the housing)                                   |
| 4        | Mounting material (according to the 19-inch rack used; not included in the scope of delivery) |

Tab. 11: Materials and tools required for rack mounting

Loosen screws

1. Loosen the 4 pre-assembled hexagon socket screws on both sides in the front area of the housing using an Allen key AF 4 (see Fig. 20).

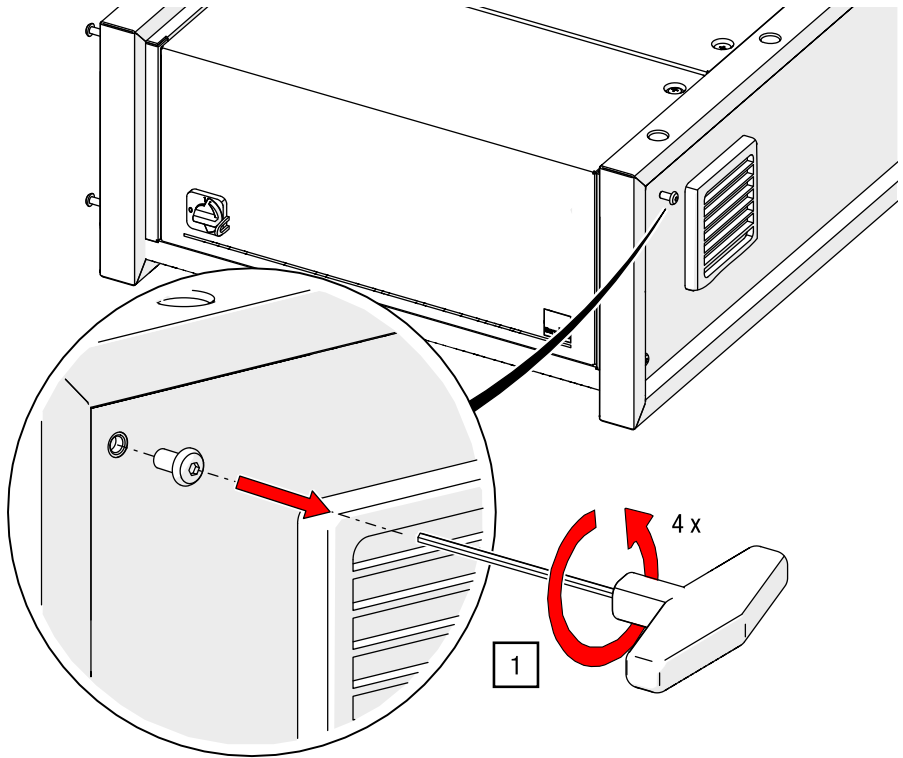


Fig. 20: Loosening the mounting bracket screws on the G-FRAME control unit (control unit model may differ)

Screw on the rack mounting bracket

2. Screw the mounting brackets to both sides of the G-FRAME control unit using the hexagon socket screws (see Fig. 21).

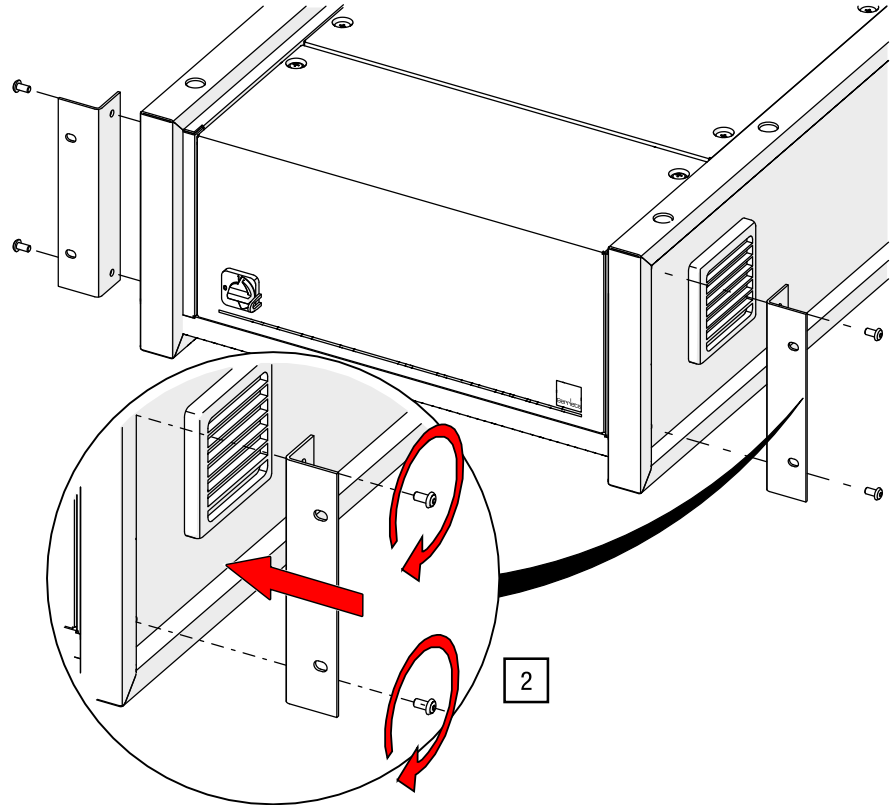


Fig. 21: Screw on the rack mounting bracket (control unit model may vary)

Screw the G-FRAME control unit into the rack

3. Position the G-FRAME control unit in the 19-inch rack and screw it in place using suitable mounting material (see Fig. 22).

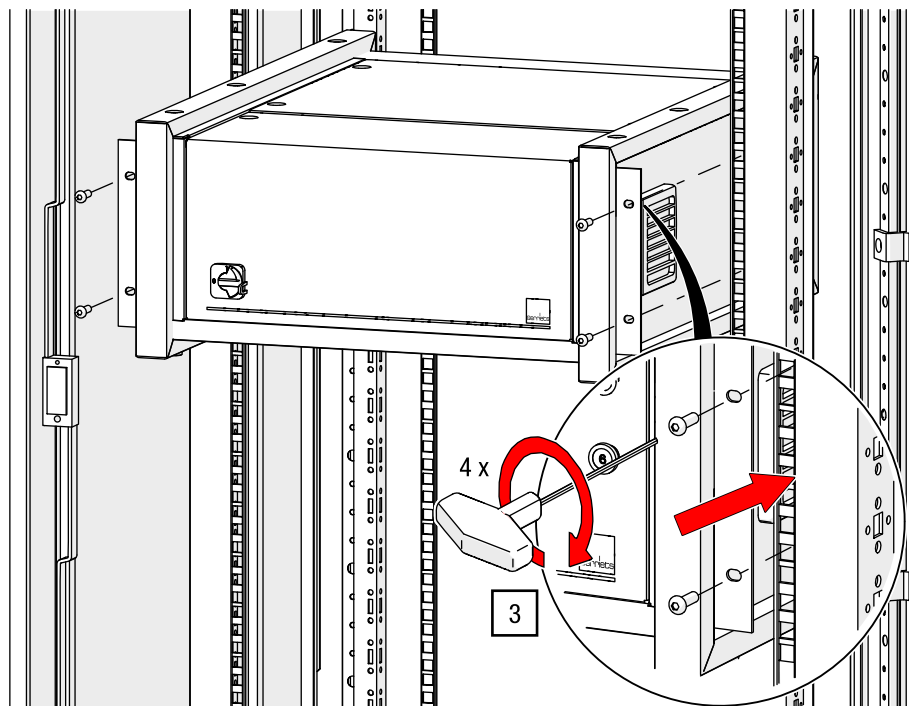


Fig. 22: Screwing the G-FRAME into the rack (control unit model may differ)

## 5.1.2 Connecting the control unit

In *Chapter 2.2 G-FRAME 54 control unit* [► p. 10] the connections for the G-FRAME control unit are described. Furthermore, you will find in *Chapter 2.2.3 Wiring diagram* [► p. 13] information about the connection options for the control unit.

### Connect G-FRAME

1. De-energise the control unit before working in the housing and secure it against being switched on again.

**⚠ WARNING:** Electrical voltage can cause death or serious injury.

2. Loosen the control panel with the Allen key AF 3 on both sides and lift off the control panel (see Fig. 23).

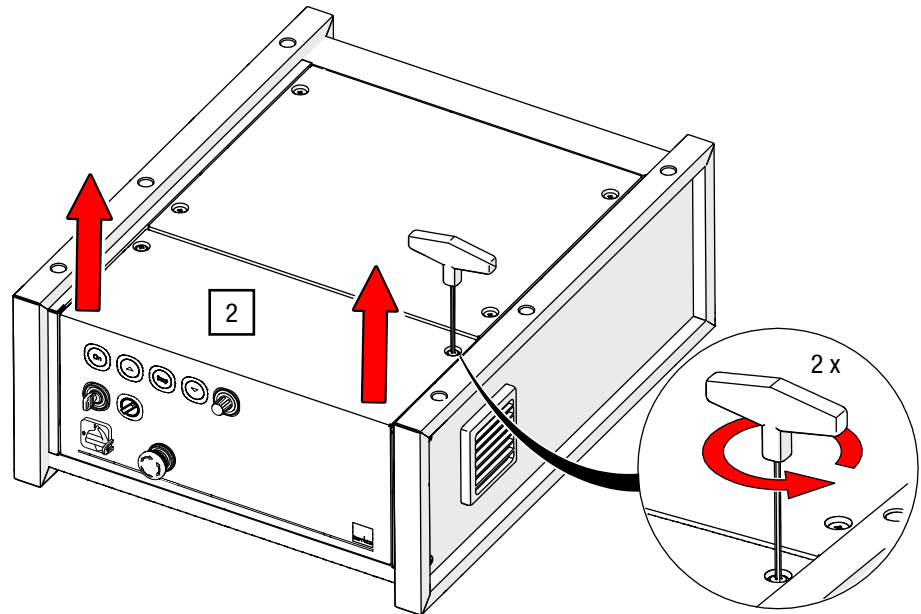


Fig. 23: G-FRAME 54 – Releasing and lifting the control panel

3. Feed your connection cable through the cable gland on the back of the control unit and connect the power supply in accordance with the manufacturer's specifications (WAGO).




---

Clamping takes place on a feed-through terminal block.

---

4. Close the housing again with an Allen key AF 3.

Connecting the connection cable to the MEGASCREEN S

5. Plug the 25 m power cable into the socket labelled 1XS1 on the back of the control unit and lock it with the bracket (see Fig. 24).
6. Plug the 25 m control cable into the socket labelled 1XS2 on the back of the control unit and lock it with the bracket (see Fig. 24).

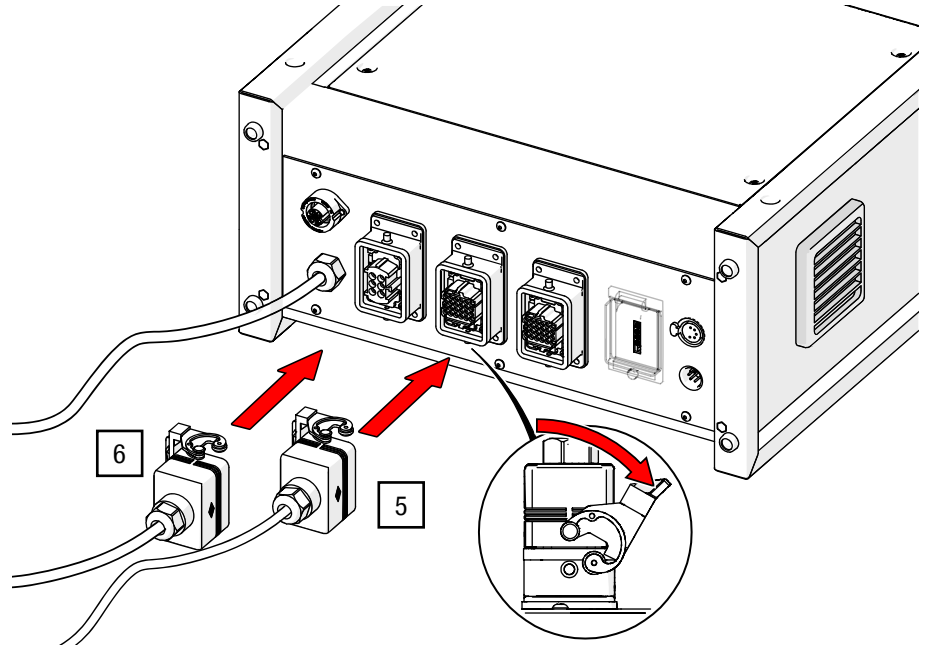


Fig. 24: G-FRAME 54 – Connecting the power and control cable of the roller screen (illustration of the G-FRAME may differ)

- ✓ The control unit is now connected, and you can operate the roller screen from the control panel on the front of the control unit (see *Chapter 6 Operation* [► p. 40]).

### 5.1.3 Setting up DMX operation

Connect emergency stop switch and DMX control unit to G-FRAME

1. Connect the plug from the emergency stop button to the emergency stop socket on the back of the control unit (see Fig. 25).
2. Connect the DMX input cable from an external DMX controller to the DMX-IN socket on the rear of the G-FRAME control unit using the 5-pin XLR plug (5/Fig. 6) (see Fig. 25).

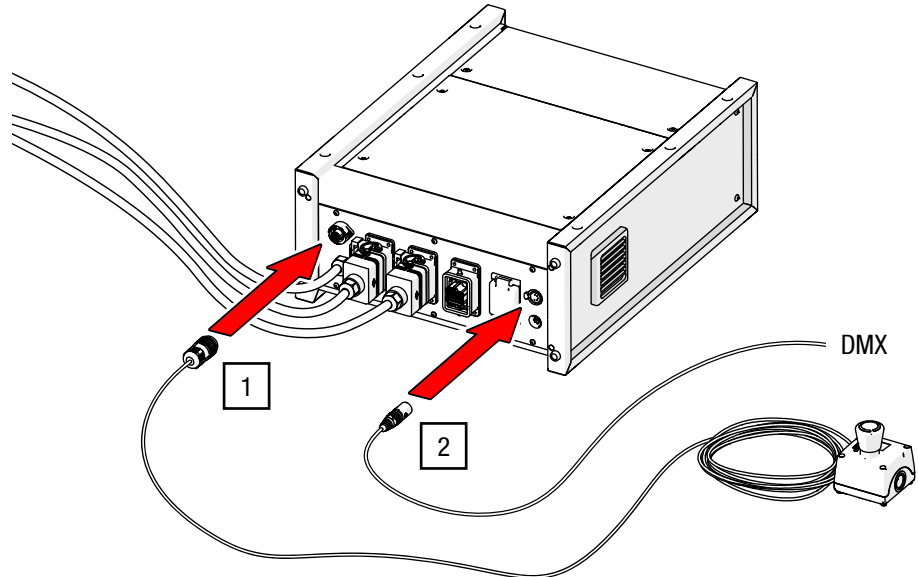


Fig. 25: G-FRAME 54 – Connecting DMX

Connection with other devices: Loop through DMX signal

DMX address assignment



You can loop the DMX signal through to other devices.

- ➔ Connect a 5-pin XLR cable to the DMX-OUT socket (6/Fig. 6) and use it to connect the G-FRAME control unit to further DMX devices.

To communicate with the external DMX control unit, you must assign a DMX start address to the G-FRAME control unit. There is a recess on the back (G-FRAME control unit) of the control unit that exposes the DMX card with the red DMX address coding switches.

1. Loosen the knurled screw on the cover of the DMX address coding switches (7/Fig. 6) and open the cover.

2. Using a screwdriver, set the three DMX address coding switches (1s, 10s and 100s digits) to the desired digits (see Fig. 26).



Setting the DMX address using the DMX address coding switches

In Fig. 26 the DMX address 256 is set as an example. The slide switches 1-4 ("dipswitches") remain switched off.

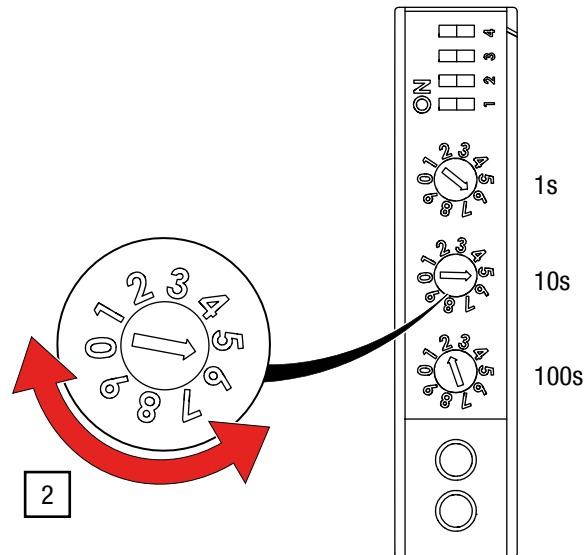


Fig. 26: DMX address coding switches on the G-FRAME control unit

#### 5.1.4 Mounting the secondary control panel

##### Installation location: Table

The base (table, shelf or similar) must be sufficiently dimensioned and load-bearing.

#### **! NOTICE**

##### **Material damage due to unsuitable installation of the control unit**

Despite its rubber feet, the control unit can fall off the table and be damaged if the cables are pulled or knocked.

- ➔ Place the control unit on a surface with a raised edge.
- ➔ Protect the control unit from third-party interference during operation.
- ➔ Secure and route the cables properly.

##### Installation location: Wall

Materials / tools for wall mounting

| Quantity | Materials / tools                              |
|----------|------------------------------------------------|
| 1        | Secondary control panel – Item no. 24800 07201 |
| 1        | Wall mounting plate                            |
| 1        | Mounting material (not included)               |

Tab. 12: Materials and tools required for wall mounting

# Instructions for wall mounting

1. Attach the wall mounting plate supplied with the secondary control panel to the wall using suitable fixing materials.
2. Suspend the secondary control panel onto the mounting plate from above. Ensure a tight fit (see Fig. 27).

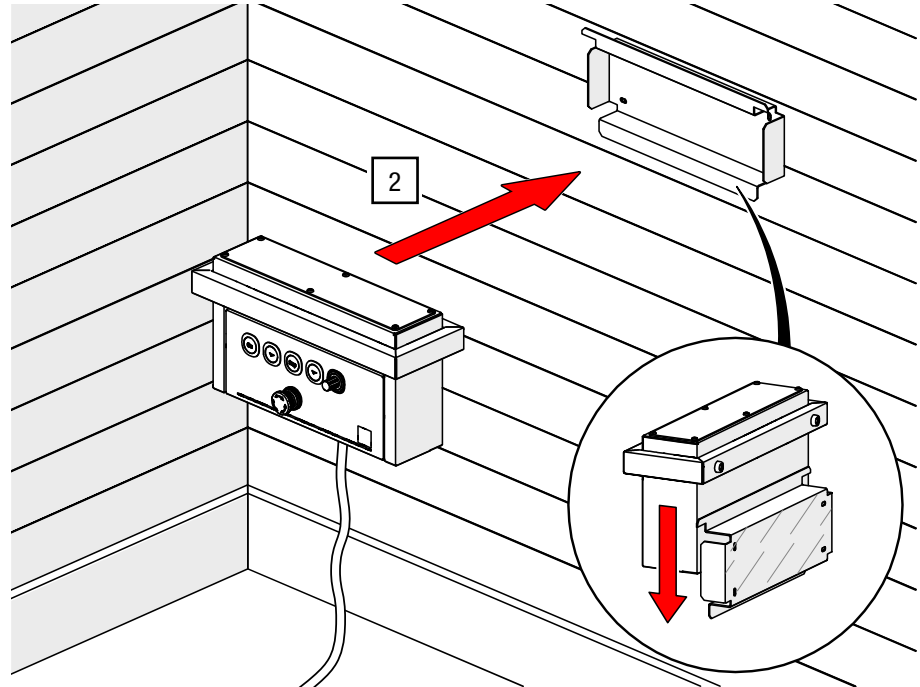


Fig. 27: Mounting the secondary control panel on the wall

### 5.1.5 Connecting the secondary control panel

1. Plug the control cable of the secondary control panel into the socket labelled 0XSB1 on the rear of the G-FRAME control unit and lock it with the bracket (see Fig. 28).

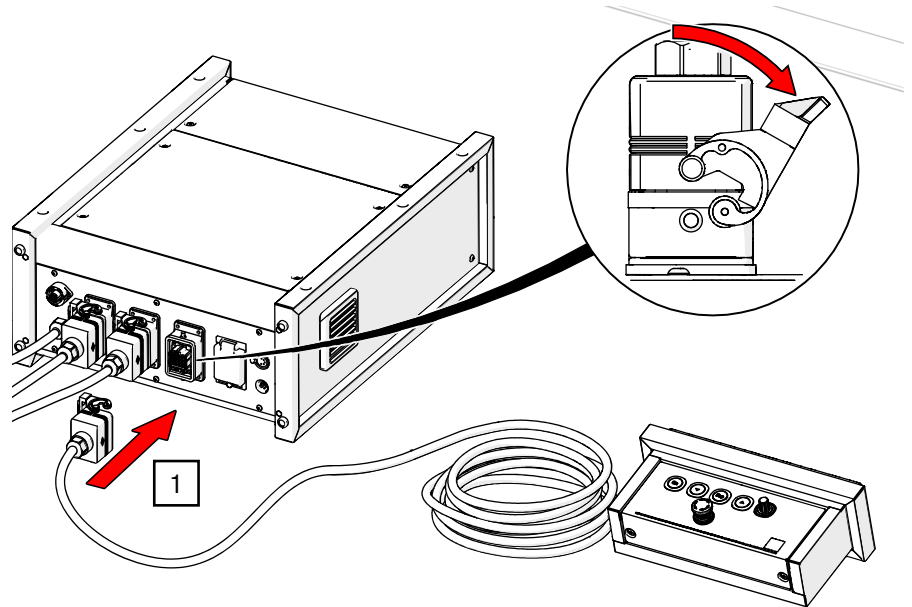


Fig. 28: G-FRAME 54 – Connect secondary control panel

2. Switch the G-FRAME control unit to “external” using the internal/external changeover switch (see 7/ Fig. 5).
- ✓ The control unit is now connected. After switching to “external”, you can operate the roller screen only via the secondary control panel.  
See also *Chapter 6 Operation* [► p. 40].



The controls of the secondary control panel correspond to those of the G-FRAME control unit. After switching the G-FRAME control unit from "internal" to "external", the controls on the G-FRAME control unit are deactivated; operation is carried out exclusively via the secondary control panel.

5.2 Mounting and connecting the roller screen

Requirements for mounting a roller screen

- ➔ Ensure that the mounting points are levelled as well as possible in order to avoid tilting later on.
- ➔ Information on the mounting distances can be found under Fig. 11 [► p. 18].

| Component       | Necessary requirements                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting points | <ul style="list-style-type: none"><li>• Ideally, the suspension points are located on lifting equipment, such as a batten hoist or chain hoist system, so that installation can be carried out close to the ground.</li><li>• Load-bearing suspension points above the planned installation site. The total weight and the distribution of the suspension points can be found in the project-specific documents.</li></ul> |

Tab. 13: Mounting the roller screen – requirements

Materials / tools

| Quantity | Materials / tools                                           |
|----------|-------------------------------------------------------------|
| 1        | Roller screen MEGASCREEN S                                  |
| 1        | Power cable and control cable, 25 m each                    |
| 1        | Mounting material according to the structure (not included) |

Tab. 14: Materials and tools required

1. Attach the roller screen according to your on-site support structure considering the static requirements.



Mounting points must be levelled as far as possible, as levelling is only possible to a limited extent (approx. 10 mm per side).

2. Connect the control and power cables previously connected to the control unit to the corresponding 1XXM1 and 1XSM2 connections on the roller screen (see Fig. 29).



All outgoing cables must be secured to the truss or the on-site support structure to relieve the load and prevent the cable from kinking (e.g. with a soft tie or a G-cable – see shop Item no. 41070 01021).

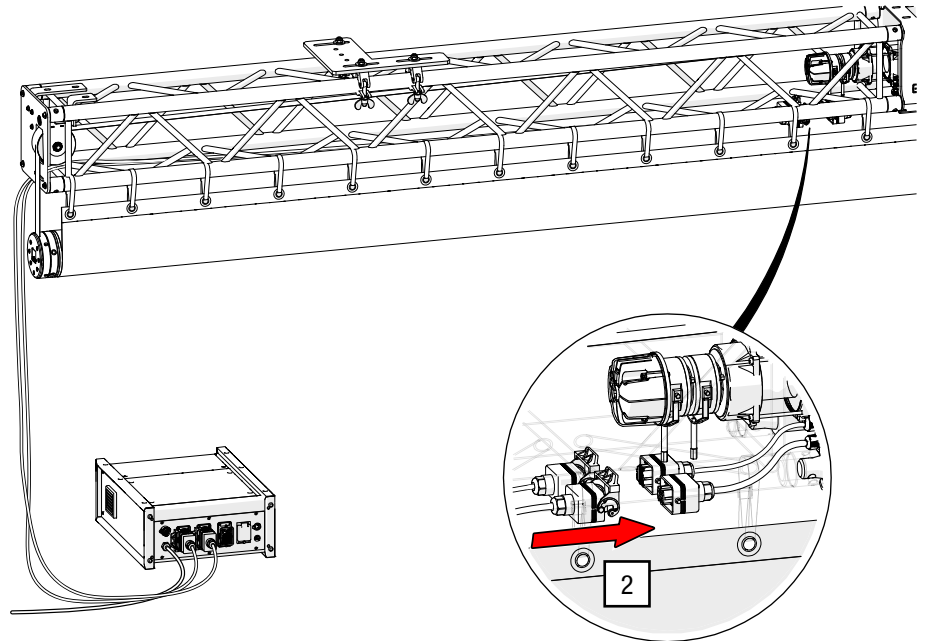


Fig. 29: Connecting the power and control cable to the roller screen

## 6 Operation

- ➔ Operate the roller screen system only under the operating conditions specified in *Chapter 3.1 Ambient conditions* [► p. 16].
- ➔ Allow the roller screen system to acclimatise to room temperature before first use.
- ➔ Consider the safety instructions in *Chapter 10 Safety* [► p. 55].
- ➔ Check that the system, especially the load suspension and the carrying straps, is in perfect condition during commissioning.
- ➔ Have the system inspected by an authorised expert during initial commissioning and every four years thereafter (see *Chapter 10.5 Testing of mechanical equipment* [► p. 61]).
- ➔ After significant changes, have the system inspected by an expert before recommissioning.
- ➔ Put the roller screen system into operation only when safe operation is guaranteed.
- ➔ Depending on the installation situation, integrate protective structures to prevent access to the danger zone.
- ➔ During operation of the system, the operating personnel must have a clear and, above all, unobstructed view of the travel and danger zone.
- ➔ Do not hang any additional loads on the trusses of the roller screen.

## 6.1 Operating the screen system

In *Chapter 2 Structure and function* [► p. 8] the components and connections of the G-FRAME 54 are described. An overview connections and numbering can be found in Fig. 5 [► p. 11].

Information on the limit switches can be found in *Chapter 2.1.1 Limit switch and emergency limit switch* [► p. 10].



The button assignment and operation of the secondary control panel corresponds to the G-FRAME 54 MEGASCREEN S control unit and is therefore not explained separately.

### 6.1.1 G-FRAME control unit

| Component            | Necessary requirements                                                                                                                                                                       |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G-FRAME control unit | <ul style="list-style-type: none"> <li>Correctly connected (see <i>Chapter 5.1.2 Connecting the control unit</i> [► p. 32]).</li> <li>Wiring checked for tight fit and integrity.</li> </ul> |

Tab. 15: Necessary requirements – G-FRAME control unit

Switch on the control unit

1. Turn the main switch to the 1-position in order to switch on the control unit (8/Fig. 5; [► p. 11]).

⇒ The “ON” indicator light (1/Fig. 5) is on.

2. Make sure that the environmental parameters correspond to the required values.

**NOTICE:** The screen material can be damaged and break if the temperature is too low.

Move MEGASCREEN S up and down

3. Ensure that the travel range is clear of people and objects.

**WARNING:** Moving parts on the roller screen can cause serious injury or damage to property.

4. Press and hold the “DOWN” button (4/Fig. 5) to move the screen downwards.

⇒ The screen moves downwards to the pre-limit switch (bottom) and then more slowly towards the operational end position (bottom). It stops automatically at the operational end position.

5. Press and hold the “UP” button (2/Fig. 5) to move the screen upwards.

⇒ The screen moves upwards to the pre-limit switch (top) and then more slowly to the operational end position (top). It stops automatically at the operational end position.

Regulate speed on potentiometer

6. For a lower speed, turn the potentiometer (5/Fig. 5) anticlockwise ( $v_{\max}$  to  $v_{\min}$ ).

7. For a higher operating speed ( $v_{\min}$  to  $v_{\max}$ ), turn the potentiometer (5/Fig. 5) in a clockwise direction.
8. Switch off the control unit after operation and secure it at the main switch with a padlock.

### 6.1.2 DMX operation

In *Chapter 2 Structure and function* [► p. 8] the components and connections of the roller screen system MEGASCREEN S are described.

| Component                      | Necessary requirements                                                                                                                                                                                                                                                              |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G-FRAME control unit           | <ul style="list-style-type: none"> <li>Correctly connected (see <i>Chapter 5.1.2 Connecting the control unit</i> [► p. 32]).</li> <li>Wiring checked for tight fit and integrity.</li> <li>DMX address set at the rear (see <i>Chapter 2.2.4 DMX control</i> [► p. 14]).</li> </ul> |
| External emergency stop button | <ul style="list-style-type: none"> <li>Correctly connected and checked for function.</li> </ul>                                                                                                                                                                                     |

Tab. 16: Necessary requirements for operating the G-FRAME control unit via DMX



If the connection is correct, the green DMX-status-LED lights up (see Fig. 6). If the red DMX-status-LED lights up, there is an error. In this case, read *Chapter 8 Troubleshooting* [► p. 50]. Errors are not displayed on the DMX user interface.

1. Turn the main switch to the 1-position to switch on the control unit (8/Fig. 5; [► p. 11]).
2. Turn the internal/external switch (7/Fig. 5; [► p. 11]) to the “external” selection.
3. After setting up or changing DMX operation, carry out a function test with the travel range clear. Check the direction of travel, the stopping behaviour, the function of the external emergency stop button and the behaviour if the DMX signal is interrupted.

**⚠ WARNING:** Moving parts of the projection screen can cause serious injury or property damage. If the DMX signal fails, control via DMX is no longer possible. DMX operation requires a suitable external emergency stop button near the DMX controller. The emergency stop button must be connected and operational.

Select DMX addresses on DMX control unit

4. Select the “Start address” on your DMX control unit to move the roller screen upwards.
5. Select “Start address+1” on your DMX control unit to move the roller screen downwards.
6. Select “Start address+2” on your DMX control unit to adjust the speed.
7. After operation, switch off the G-FRAME 54 control unit and secure it at the main switch with a padlock to prevent unauthorised usage.

## 7 Maintenance and servicing

### 7.1 Proper maintenance



Regular maintenance in accordance with the maintenance schedule is essential for the safe and reliable operation of the system throughout its service life.

- ➔ Consider the maintenance instructions (see *Chapter 7.2 Maintenance schedule* [► p. 43]).
- ➔ Perform maintenance and servicing work in accordance with the maintenance schedule.
- ➔ The danger zone must be cordoned off for maintenance work.
- ➔ De-energise live components before starting any work: turn the yellow/red main switch on G-FRAME control units e.g. to the “0” position and secure it with a padlock to prevent it from being switched on again.
- ➔ Insert screw connections and locking elements correctly and check their effectiveness.
- ➔ Carry out a visual inspection of the system after each transport and periodically during the life cycle.
- ➔ After events that could have damaging effects on the safety of the system and after critical faults, an extraordinary inspection must be carried out by an authorised expert (see *Chapter 10.5 Testing of mechanical equipment* [► p. 61]).

### 7.2 Maintenance schedule

| Maintenance measure                                                      | before each use | quarterly | half-yearly |
|--------------------------------------------------------------------------|-----------------|-----------|-------------|
| Visual inspection: Are the cables and plug connections undamaged?        |                 | ●         |             |
| Check: Do the plugs engage?                                              |                 |           | ●           |
| Visual inspection: Does the carrying strap have cracks, kinks, or dents? |                 |           | ●           |
| Check: All screw connections for tightness                               |                 |           | ●           |
| Visual inspection: Suspensions                                           |                 |           | ●           |
| Check: Canvas attachment                                                 |                 |           | ●           |
| Check: Electrical system and control                                     |                 | ●         |             |
| Check: Is the control unit fault-free?                                   | ●               |           |             |
| Check: Is the screen film clean and wrinkle-free?                        | ●               |           |             |

Tab. 17: Maintenance table

Maintenance frequency  
Varies according to use



---

Some work mentioned is highly dependent on usage and environmental conditions. The specified cycles are minimum values. Different maintenance cycles are possible in individual cases.

---

- ➔ Shorten the maintenance intervals accordingly in the case of intensive use or demanding ambient conditions.
- ➔ Instruct the operating personnel accordingly.

## 7.3 Cleaning the roller screen system



---

For cleaning the PVC projection film, we recommend the Gerriets cleaning kit, – Item no. 42010 00101, comprising a cleaning agent and a microfibre cloth.

---

### NOTICE

#### **Material damage caused by moisture and cleaning agents**

The MEGASCREEN S roller screen complies with protection rating IP54; the G-FRAME 54 control unit complies with protection rating IP40.

The components are not waterproof. Ingress of moisture and unsuitable cleaning agents may cause damage.

- ➔ Isolate the roller screen system from the power supply before cleaning and secure it against being switched on again.
  - ➔ Clean the mechanical components only with a slightly damp, lint-free cloth.
  - ➔ Prevent moisture from entering electrical components.
  - ➔ Never spray cleaning agents directly onto the roller screen system.
  - ➔ Do not use aggressive, solvent-based or abrasive cleaning agents.
- 

## 7.4 Cleaning the screen fabric

The MEGASCREEN S can be equipped with PVC projection films or perforated projection films. In addition, observe the care instructions supplied with the projection film in use.

- Clean the projection film with a soft, clean and lint-free cloth.
- Use only cleaning agents suitable for the projection film in use.
- Do not use solvents, alcohol-based cleaners or abrasive materials.
- Do not apply strong pressure to the projection film.
- After cleaning, inspect the projection film for damage and visible material changes, e.g. embrittlement, kinks or clouding.
- Do not continue to use a damaged projection film.

7.5 Increase the tension of the coil spring

If the tension in the coil spring decreases or the projection screen is replaced, it may be necessary to retension the coil spring.



This procedure should be carried out by two people.

Materials / tools

| Quantity | Materials / tools                                                                   |
|----------|-------------------------------------------------------------------------------------|
| 2        | M12 screw or Ganter clamping lever (lever shown; not included in scope of delivery) |
| 1        | Allen key AF 10 (not included in scope of delivery)                                 |

Tab. 18: Materials and tools required for retensioning the coil spring

Re-tensioning the coil spring:

1. Lower the screen to working height.
2. Fix two clamping levers (e.g. an M12 screw or Ganter clamping lever – not included in the scope of delivery) hand-tight in the M12 threaded holes provided on the clamping ring (see Fig. 30).

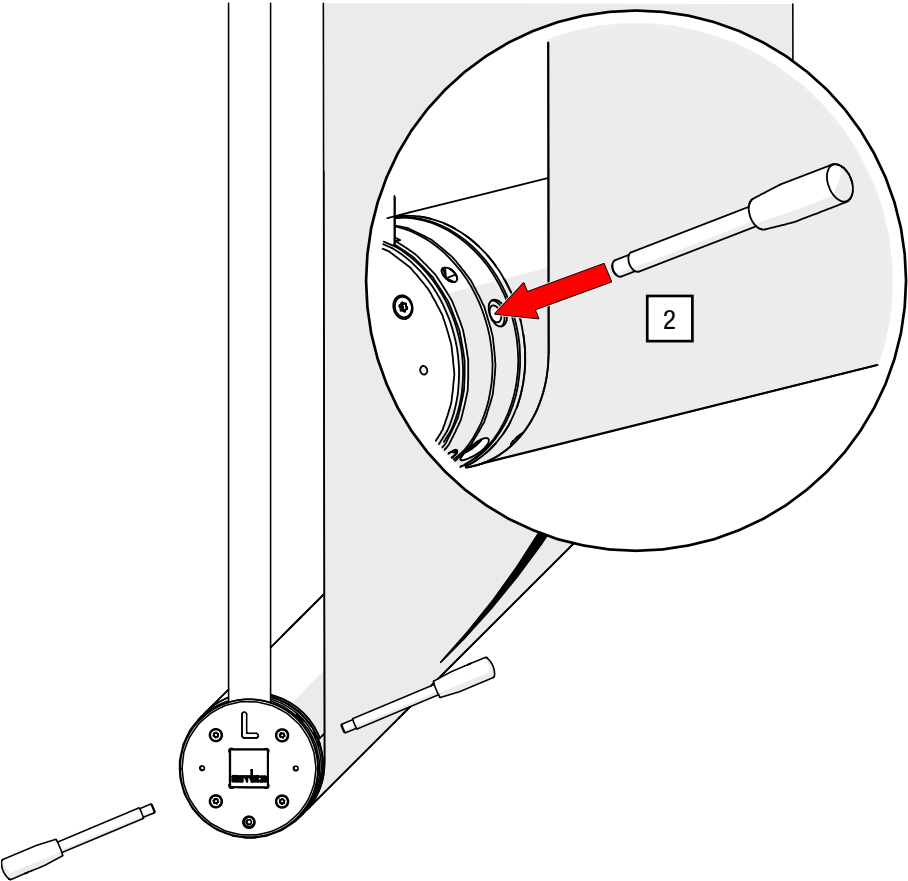


Fig. 30: Fixing the clamping levers to the clamping ring

3. Take the handle of at least one clamping lever firmly in your hand and hold it firmly (see Fig. 31).

**⚠ WARNING:** A freely rotating winding shaft after loosening the locking screws can cause injury or damage to the screen.

4. With a second person, loosen the locking screws on the clamping ring using an Allen key AF 10 (see Fig. 31).

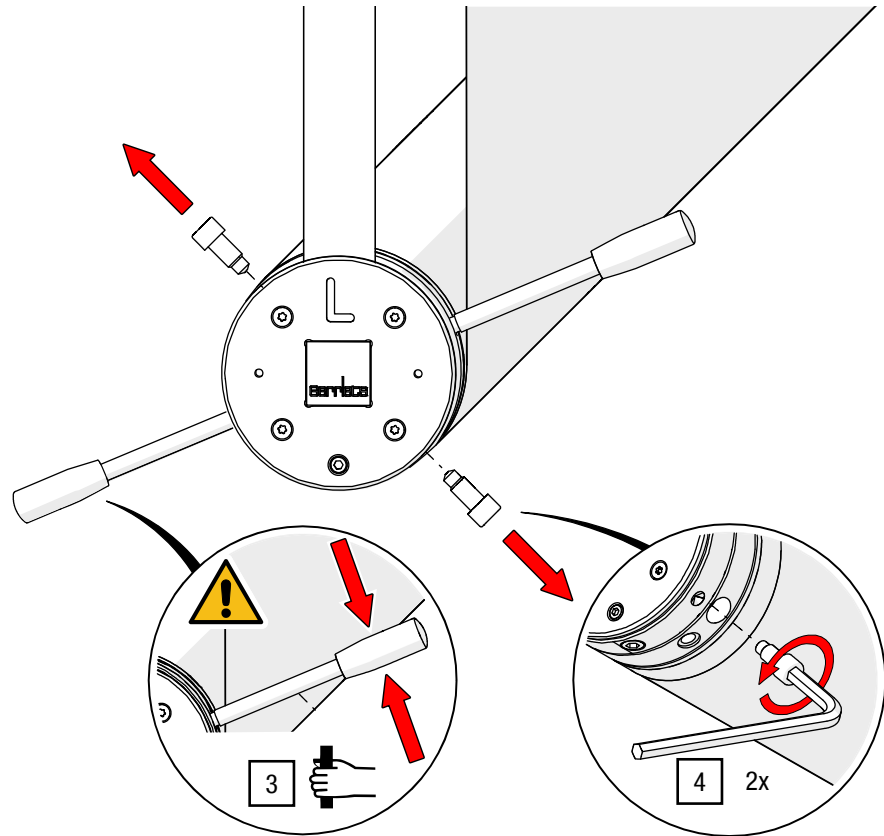


Fig. 31: Hold the clamping lever and loosen the locking screws

5. Use the clamping levers to turn the clamping ring in the winding direction until sufficient pre-tension has been achieved. Ensure that the index marks are aligned with each other (see Fig. 32).

**ⓘ NOTICE:** The coil spring can be destroyed by putting too much pre-tension. Make a note of the values already set and observe the specification of max. 3 turns.




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The clamping rings should be set symmetrically for the left and right sides.

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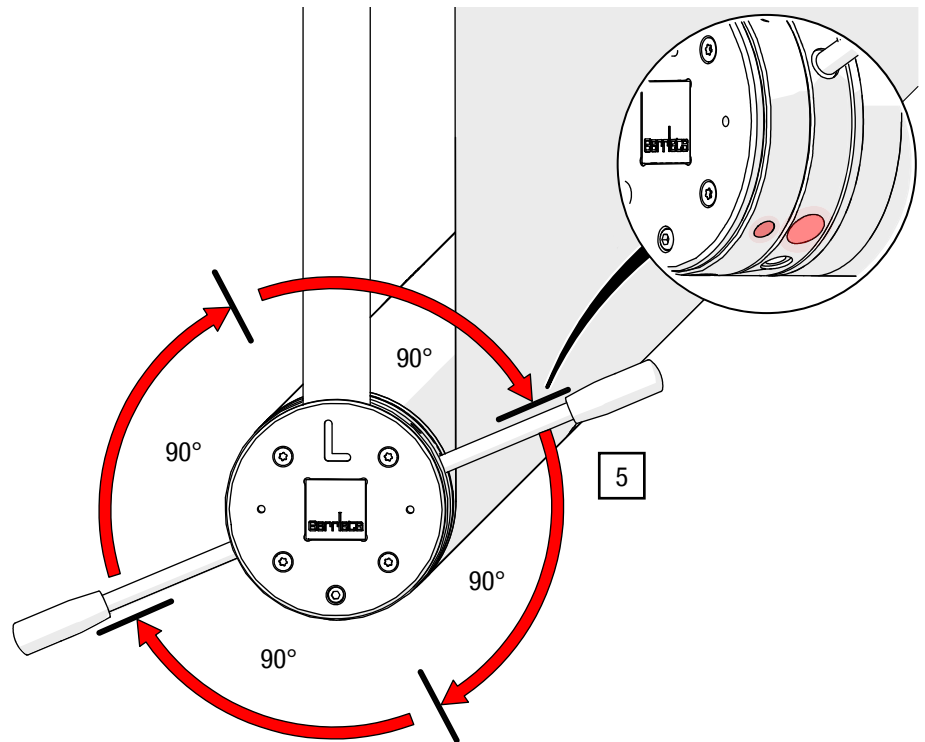


Fig. 32: Tensioning the coil spring with the clamping lever

6. Turn the locking screws hand-tight into the intended positions using the Allen key AF 10 (see Fig. 33).
7. Loosen the clamping levers (see Fig. 33).

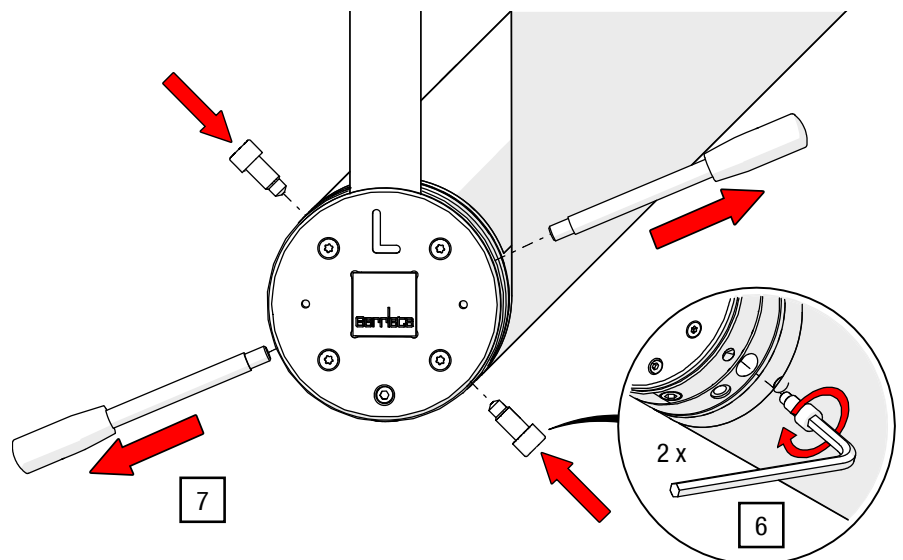


Fig. 33: Fix the locking screws and release the clamping lever

- ✓ The tension of the coil spring has been increased correctly and the MEGASCREEN S roller screen is ready for use.

7.6 Readjust levelling screw

You can correct a slight tilt ( $\pm 10\text{ mm}$ ) on the MEGASCREEN S roller screen using levelling screws attached to the side of the winding shaft.



Use a spirit level for ideal adjustment.

Materials / tools

| Quantity | Materials / tools                                  |
|----------|----------------------------------------------------|
| 1        | Allen key AF 5 (not included)                      |
| 1        | Allen key AF 8 (not included in scope of delivery) |
| 1        | Spirit level (not included)                        |

Tab. 19: Materials and tools required for levelling the roller screen

Loosen the locking screw

1. Lower the screen to working height.
2. Loosen the locking screw with an Allen key AF 5 by approx. half a turn (see Fig. 34).

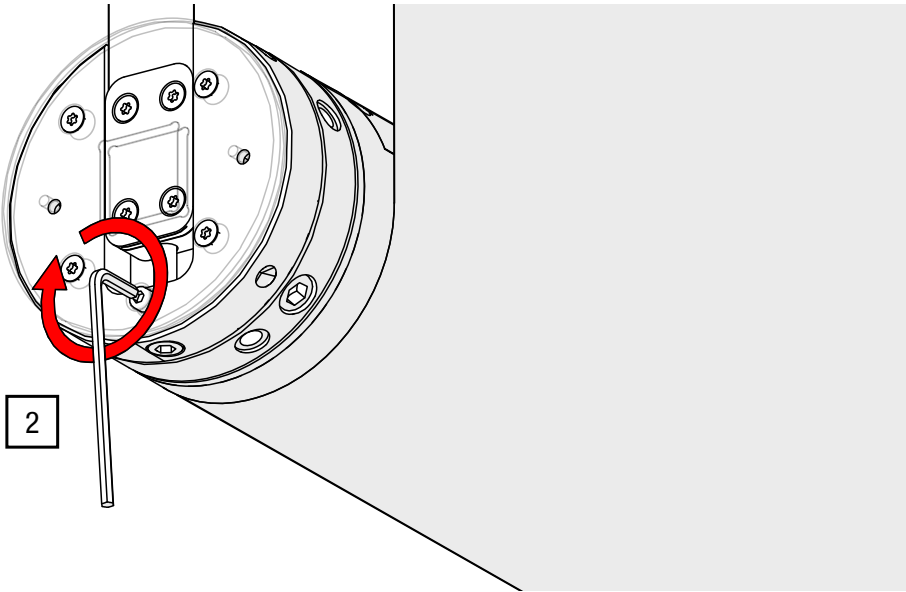


Fig. 34: Setting the levelling – Loosen the locking screw

## Adjustment upwards

3. Turn the levelling screw clockwise using an Allen key AF 8 (see Fig. 35).

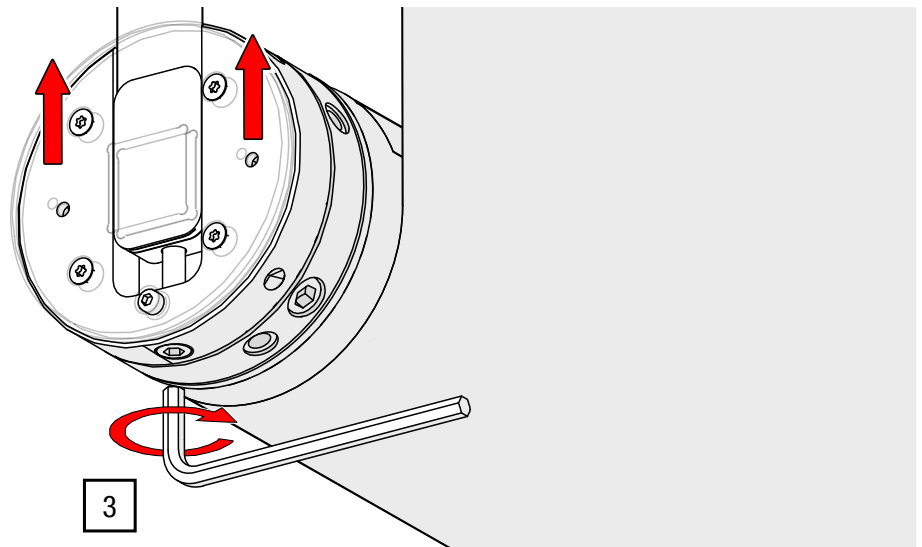


Fig. 35: Setting the levelling – Adjusting the winding shaft upwards

## Downward adjustment

4. Turn the levelling screw anticlockwise using an Allen key AF 8 (see Fig. 36).

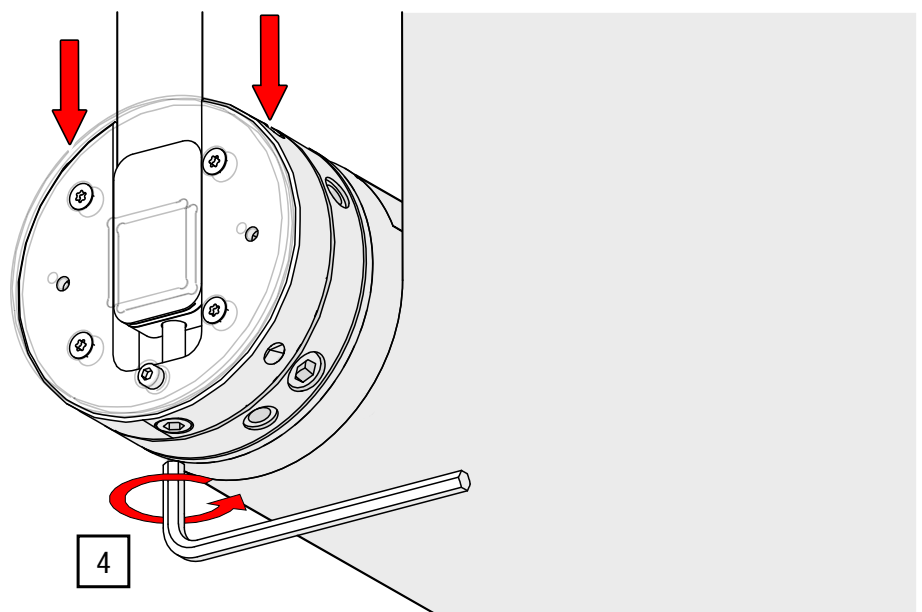


Fig. 36: Setting the levelling – Adjusting the winding shaft downwards

5. Tighten the locking screw from step 2 (see Fig. 34) with an Allen key AF 5 hand-tight.

## 8 Troubleshooting



- ➔ In the event of faults whose cause you cannot determine and rectify yourself, shut down the system and contact Gerriets GmbH customer service (see *Chapter 12.1 Contact us* [► p. 64]).
- ➔ Works on the electrical installation must be carried out by specialised personnel and in particular during the warranty period by Gerriets GmbH personnel.

### NOTICE

#### **Material damage due to unauthorised changes to the roller screen system**

The function and safety of the roller screen MEGASCREEN S may be impaired by additions or modifications of any kind.

- ➔ Do not make any changes or additions to the machine without consulting Gerriets GmbH and obtaining its written consent.

### 8.1 Faults on the MEGASCREEN S roller screen

| Problem                           | Cause                                                                                                  | Elimination                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Film is not stretched or creases  | The tension applied by the camlock straps or the tensioning device of the film is not sufficient.      | <ul style="list-style-type: none"> <li>➔ Tighten the camlock straps locally to ensure a uniform appearance.</li> <li>➔ Carry out a levelling of the winding shaft (see <i>Chapter 7.6 Readjust levelling screw</i> [► p. 48]).</li> <li>➔ Retighten the coil spring (see <i>Chapter 7.5 Increase the tension of the coil spring</i> [► p. 45]).</li> </ul> |
| Steel belt sounds tinny / rattles | The alignment of the screen is not correct. The edge of the belt is rubbing against the flanged wheel. | <ul style="list-style-type: none"> <li>➔ Check the roller screen for correct alignment and adjust it using the levelling screws.</li> <li>➔ Check the horizontal position of the truss in the longitudinal and transverse directions.</li> <li>➔ Correct the alignment of the roller screen on the suspensions.</li> </ul>                                 |

Tab. 20: Troubleshooting for the roller screen

## 8.2 Faults on the G-FRAME control unit

| Problem                    | Cause                                                                                                                                  | Elimination                                                                                                                                                                                                                                       |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Red "Stop" indicator light | The motor on the roller screen overheats due to frequent movement and/or temperatures higher than the permitted operating temperature. | <ul style="list-style-type: none"> <li>➔ Allow the system to cool down.</li> <li>➔ If the system switches off several times due to overheating, contact Gerriets GmbH customer service (see <i>Chapter 12.1 Contact us</i> [► p. 64]).</li> </ul> |
|                            | Fault on the thermal contact                                                                                                           | ➔ Contact Gerriets GmbH customer service (see <i>Chapter 12.1 Contact us</i> [► p. 64]).                                                                                                                                                          |
|                            | Operational limit switch overrun; movement stopped at the emergency limit switch                                                       | ➔ Have the screen moved out of the emergency end again by authorised specialist personnel and check that the limit switches are functioning correctly.                                                                                            |
|                            | Emergency stop circuit open                                                                                                            | ➔ Set the control unit to "internal" or plug a dummy plug into the connection for the secondary control panel.                                                                                                                                    |
|                            | Two limit switches respond simultaneously                                                                                              | ➔ Contact Gerriets GmbH customer service (see <i>Chapter 12.1 Contact us</i> [► p. 64]).                                                                                                                                                          |
|                            | Electrical fault on the frequency inverter                                                                                             | ➔ Contact Gerriets GmbH customer service (see <i>Chapter 12.1 Contact us</i> [► p. 64]).                                                                                                                                                          |

Tab. 21: Troubleshooting for G-FRAME control unit

### 8.3 Faults on the DMX control

| Problem                                                                                      | Cause                                                                                         | Elimination                                                                                |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Setting the DMX address on the control unit has no effect when operating with an RDM master. | The RDM master overwrites the DMX address.                                                    | → Carry out a “reset” on the control unit by selecting the “start address 900”.            |
| Setting the DMX address has no effect.                                                       | The slide switches (“dipswitches”) beside the DMX address coding switches have been adjusted. | → Switch the slide switches to “off” (see also Fig. 26 [► p. 35]).                         |
| DMX-status-LED flashes red.                                                                  | There is no DMX signal or the cabling is deficient                                            | → Connect a DMX control unit.<br>→ Check that all cable connections are secure and intact. |
| DMX-status-LED flashes green.                                                                | No valid DMX start address has been set.                                                      | → Check the DMX address, see also Fig. 26 [► p. 35].                                       |

Tab. 22: Troubleshooting for DMX control

## 9 Decommissioning and disposal



In the event of a defect in individual components of the roller screen system, we focus on sustainability and offer to repair them if this is possible.

We will be happy to check whether a repair makes sense for you.

Contact us using the contact options in *Chapter 12 Contact and warranty* [► p. 64] or via the contact details for the locations on the back.

➔ Please refer to *Chapter 10.3.3 Target groups and activities* [► p. 59] regarding responsibilities.

### 9.1 Temporary shutdown and storage

#### Temporary shutdown

1. Secure the danger zone and disconnect the roller screen system from the power supply.
2. Start dismantling from the payload side and remove loads and load-bearing components in the power flow step by step.
3. Roll up all cables and fasten them securely to or near the machine.
4. Clean all components and put them into storage.

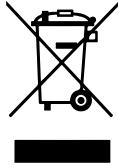
#### Information about storage

Short-term and medium-term storage (up to 2 years) is possible without special measures under storage conditions corresponding to the ambient conditions in *Chapter 3.1 Ambient conditions* [► p. 16].

- ➔ For longer-term storage, take additional measures to protect against corrosion.
- ➔ Store the roller screen system dry and dust-free; ideally in the original packaging.
- ➔ Do not expose the roller screen system to aggressive media.

## 9.2 Environmental protection, dismantling and disposal

### Environmental protection/WEEE



Dispose of the roller screen system, the components, and the accessories at the end of its service life in an environmentally friendly manner in accordance with the applicable legal regulations.

Observe the national and international regulations. This applies primarily, but not exclusively, to metals, electronic components, batteries and accumulators, fibre composites, plastics, and PVC.

If in doubt, contact your local authority or a specialised waste disposal company to ensure proper disposal in accordance with environmental standards. They can provide you with information on the correct procedures and methods.

Packaging materials that are no longer required for storage or transport must be disposed of in an environmentally friendly manner.

➔ Do not dispose of electronic components in residual waste, as they are recyclable materials (2012/19/EU; WEEE Directive).

### Dismantling and disposal

1. Secure the danger zone and disconnect the roller screen system from the power supply.
2. Start dismantling from the payload side and remove loads and load-bearing components in the power flow step by step.
3. Separate machine parts and electrical components according to type.
4. Dispose of all parts properly in accordance with local regulations.

## 10 Safety

### 10.1 Utilisation

#### 10.1.1 Intended use

The roller screen system MEGASCREEN S is intended exclusively as a winding shaft for suitable films and fabrics indoors.

Operation above persons may only take place under constant supervision by trained specialist personnel and after an expert inspection (see *Chapter 10.5 Testing of mechanical equipment* [► p. 61]).

For safe and proper use of the roller screen system, it is essential to follow all the information and instructions in the operating manual.

- ➔ Use the roller screen system only for its intended purpose and in a technically safe condition.
- ➔ Use the roller screen system only in compliance with the maximum permitted screen fabric sizes and the recommended maintenance and inspection work.

Exception under own responsibility

When controlling via DMX, conformity can no longer be guaranteed without additional measures.

- ➔ Provide additional safety measures such as an external emergency stop button (see *Chapter 2.3 Accessories and spare parts* [► p. 15]).
- ➔ Create a risk assessment and take measures to minimise damage due to improper operation and possible risks of injury.
- ➔ Reliably prevent people from entering the danger zone under the load.

#### 10.1.2 Foreseeable misuse

Any use other than that specified under the intended use is considered as an improper use.

Consequences of non-compliance

Failure to follow the instructions in this operating manual may result in serious consequences of death, serious injury to persons and damage to the system or the property of third parties. These are not covered by the product warranty or liability.

- ➔ Please refer to *Chapter 10.7 Disclaimer* [► p. 62].

Further examples of improper use

Examples of improper use include, but are not limited to

- Attaching attachments not approved by Gerriets and modifying the product.
- Shutting down the roller screen without visual inspection.
- Moving the roller screen above people.
- Unauthorised entry into the danger zone.

## 10.2 General warnings

### Fundamentals

The roller screen system MEGASCREEN S complies with the latest technical standards and the applicable safety and occupational health and safety regulations.

Nevertheless, there is a risk of injury to the user and third parties and damage to property when using it.

### Responsibility and risk assessment

Overall responsibility for the operation of the technical system lies with the operator.

- ➔ Consider the hazard and safety instructions in the operating manual.
- ➔ Create a risk assessment and take measures to minimise damage due to improper operation and possible risks of injury.

### Mechanical hazards



### **DANGER**

#### **Risk of injury from falling objects and suspended loads**

Falling objects can cause accidents resulting in death, serious injury or damage to property.

- ➔ Pay attention to the maximum load-bearing capacity of the overall system and individual components.
- ➔ Ensure that the existing substructure of the building has sufficient load-bearing capacity for the installation of the MEGASCREEN S.
- ➔ Check whether the building's stability certificate covers the additional loads or whether a further check by a structural engineer or reinforcement is necessary.
- ➔ Avoid dynamic loads such as falls ("falling" of the load into the static system) or swinging movements.
- ➔ Do not make any changes, additions, or conversions to the roller screen system unless this has been authorised in writing by Gerriets.
- ➔ Secure the danger zone.
- ➔ Secure loads to be fastened against falling during installation (e.g. using suitable lifting gear).
- ➔ Always assemble the screw connections of the parts with the aid of the specific assembly instructions and tables for tightening torques.
- ➔ Always use securing elements such as rings, clips, and pins correctly and check their effectiveness.
- ➔ Check the mounting equipment for suitability and permissible load-bearing capacity before use.
- ➔ Always ensure that the operator has a clear view of the system during travel.

## Electrical hazards

**DANGER****Danger to life due to electrical voltage**

There is a risk of fatal electric shock on contact with live parts. A damaged cable or its insulation can be life-threatening.

- ➔ Never unplug connectors under load.
- ➔ De-energise the electrical system before carrying out any maintenance, cleaning, or repair work.
- ➔ Ensure that the system is de-energised when working on the switch box.
- ➔ Carry out electrical installation work by qualified specialists only.
- ➔ Install an infeed with a power supply isolating device in accordance with DIN EN 60204.
- ➔ Disconnect the system from the power supply before working in the control unit housing.
- ➔ Regularly check the electrical protection such as overcurrent protection, potential equalisation and residual current protective devices in accordance with the power supply system.
- ➔ Regularly check the system and its cabling for damage (see *Chapter 7 Maintenance and servicing* [► p. 43]).
- ➔ In the event of damage, switch off the power supply immediately and arrange for repairs.
- ➔ Keep moisture away from live parts.
- ➔ Never bypass fuses or put them out of operation.

## 10.2.1 Residual risks

Despite compliance with all design-related and safety-related measures, residual risks cannot be completely excluded.

These include in particular:

- incorrect operation by the user
- technical defects or wear
- external influences during operation

The operator must ensure by means of suitable organisational measures that these risks are reduced to a minimum.

## 10.3 Personnel and target group

### 10.3.1 Responsibility of the operator

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Definition of the operator  | The operator is a person who uses the system or the machine themselves or leaves it to third parties for use or leaves it to third parties. During operation, the operator bears legal product responsibility for the protection of personnel or third parties.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Obligations of the operator | <ul style="list-style-type: none"><li>➔ Comply with the applicable health and safety guidelines and inform your staff accordingly.</li><li>➔ Draw up a risk assessment and make arrangements to rule out damage caused by improper operation and residual hazards as far as possible.</li><li>➔ Ensure that the personnel are familiar with the regulations on occupational safety and accident prevention.</li><li>➔ Create internal operating instructions for the roller screen system and instruct your staff to read them.</li><li>➔ Provide your personnel with the necessary protective equipment (see <i>Chapter 10.3.5 Personal protective equipment</i> [► p. 60]).</li><li>➔ Train and inform your staff regularly about specific hazards.</li><li>➔ Prevent unauthorised and untrained persons from operating the roller screen system.</li><li>➔ Operate the roller screen system only under the operating parameters specified in <i>Chapter 3 Technical data</i> [► p. 16].</li></ul> |

### 10.3.2 Responsibility of the staff

All persons assigned to work on the roller screen system undertake the following before starting work:

- Observe the basic regulations on occupational safety and accident prevention.
- Read and observe the operating manual, including the safety chapter and the safety instructions.

### 10.3.3 Target groups and activities

#### Definition of the target group

| Target group                                                        | Definition                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Instructed personnel                                                | An employee of a venue or service provider who has been instructed by the responsible event technician or by the manufacturer on specific topics related to the section of the document.                                                                                        |
| Responsible event technician                                        | The event technician responsible for a venue is a specialist who is responsible for planning, implementing and monitoring the technical aspects of events. The specialist ensures that all technical requirements are met.                                                      |
| People with specialised training (mechanics/electrical engineering) | Specialist staff with specialised training, such as electrical engineering or mechanics, are qualified experts in their respective fields. The specialist staff have the specific knowledge, skills, and training to master complex technical tasks in their specialised field. |

Tab. 23: Definitions of different target groups

#### Areas of activity of the staff

| Activity                                | Instructed personnel | Responsible event technician | People with specialised training (mechanics/electrical engineering) |
|-----------------------------------------|----------------------|------------------------------|---------------------------------------------------------------------|
| Transport                               | √                    | √                            | –                                                                   |
| Assembly                                | –                    | –                            | √                                                                   |
| Commissioning                           | –                    | √                            | √                                                                   |
| Troubleshooting and fault rectification | –                    | √                            | √                                                                   |
| Operation                               | √                    | √                            | –                                                                   |
| Maintenance                             | –                    | √                            | √                                                                   |
| Dismantling                             | –                    | –                            | √                                                                   |
| Disposal/recycling                      | √                    | √                            | √                                                                   |

√ = In the area of activity

– = not in the area of activity

Tab. 24: Allocation of the areas of activity to the target groups

10.3.4 Presence in the danger zone for scenic reasons

When using the roller screen system on stages or stage areas above people who need to be within the travelling range of the screen for artistic or other reasons, it is essential that they are thoroughly informed in advance about the associated risks and correct behaviour in the event of danger.



The operating personnel may only operate the MEGASCREEN S if there are no persons in the danger zone. The roller screen should always be operated with a clear view of the movement.  
Other procedures are considered improper.

10.3.5 Personal protective equipment

If necessary, the operator must provide the following personal protective equipment for the operating and maintenance personnel:

| Symbol | Protective equipment |
|--------|----------------------|
|        | Protective gloves    |
|        | Safety shoes         |
|        | Safety helmet        |

Tab. 25: Personal protective equipment

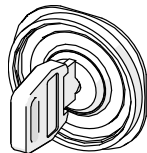
10.4 Safety and protective equipment

10.4.1 Non-separating protective devices

Recessed actuation buttons  
(dead man's switch)

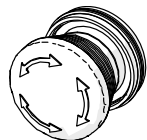
The operating button on the control unit G-FRAME 54 is recessed to prevent unintentional activation. The movement of the roller screen is interrupted when the buttons are released.

Key switch



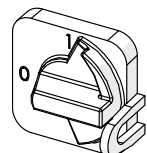
A key switch is fitted to the G-FRAME control unit to prevent unauthorised operation in the travel range between the operating end and the emergency end (e.g. in the event of a malfunction if the operating end is overrun). The key is handed over to qualified personnel.

Emergency stop  
switch



An emergency stop switch is fitted to the G-FRAME control unit to de-energise the entire system in the event of danger.

Main switch  
(lockable)



A power supply isolator is fitted to the G-FRAME control unit to de-energise the system. The power supply isolator can be locked in the 0-position with a small padlock to prevent unauthorised persons from switching it on.

### 10.4.2 Separating protective devices

Isolating protective devices must be installed by the operator in accordance with the installation situation and hazardous situation, if necessary or applicable.

- ➔ Create a risk assessment of your system to identify and, if possible, eliminate sources of danger.

## 10.5 Testing of mechanical equipment

Health and safety regulations and scope of application

In Germany, the regulations of the German Social Accident Insurance (DGUV) apply to the inspection of work equipment in event technology when it is put into operation initially and subsequently at regular intervals. These are binding, autonomous legal standards.

If the mechanical equipment is used in a different area of application, the local accident prevention regulations and national health and safety regulations apply.

Inspection on commissioning and recurring

The MEGASCREEN S roller screen system is a “technical machine installation” as defined by regulation DGUV 17 (BGV C1 / BGG 912 GUUV regulation 17 (BGV C1): Event and production venues for theatrical performances.

If your company is within the scope of BGV C1, the proper installation, equipment and operational readiness of the system must be checked by an authorised expert before initial commissioning and after significant changes before recommissioning. This is also further specified in DGUV Principle 315-390: Inspection of mechanical equipment for event technology.

Periodic inspections by qualified persons are required annually and by authorised experts every 4 years. The hoisting equipment for suspending the roller screen must also be inspected, which makes it advisable to synchronise the two expert inspections.

- ➔ Arrange for an inspection by authorised experts before commissioning and every 4 years.
- ➔ Combine the annual inspection by a qualified person with complete maintenance and servicing.

## 10.6 Guidelines and standards

### EU/EC directives



The roller screen system complies with the guidelines:

- 2006/42/EC – Machinery Directive
- 2014/30/EU – Electromagnetic Compatibility
- 2014/35/EU – Low Voltage Directive



These instructions are based on the Machinery Directive 2006/42/EC, which was in force at the time of writing.

Please note that this directive will be replaced by EU Regulation 2023/1230, which will apply from 20 January 2027.

### Standards applied

The roller screen system has been developed and assessed in accordance with the following standards:

- DIN 56950-4:2015-12, Entertainment technology – Machinery installations – Part 4: Safety requirements for serially manufactured projection screens

### Harmonised standards

The following Harmonised standards are also met:

- DIN EN ISO 12100:2011-03, Safety of machinery – General principles for design – Risk assessment and risk reduction (ISO 12100:2010); German version EN ISO 12100:2010
- DIN EN 17206:2022-02, Entertainment technology – Machinery for stages and other production areas – Safety requirements and inspections; German version EN 17206:2020 + AC:2021
- DIN EN 60204-1:2019-06, Safety of machinery – Electrical equipment of machines – Part 1: General requirements (IEC 60204-1:2016, modified); German version EN 60204-1:2018
- EN ISO 13849-1:2015, Safety of machinery – Safety-related parts of control systems – Part 1: General principles for design (ISO 13849-1:2015); German version EN ISO 13849-1:2015
- EN 1037:1995+A1:2008, Safety of machinery – Prevention of unexpected start-up
- EN 62061:2005, Safety of machinery – Functional safety of safety-related electrical, electronic and programmable electronic control systems

## 10.7 Disclaimer

Gerriets GmbH assumes no liability or warranty for damages and malfunctions caused by:

- Disregard of the operating manual.
- Non-intended use.
- Use of personnel which is not appropriately qualified.
- Use of spare parts, accessories, and materials that have not been authorised by Gerriets GmbH.
- Modifications or conversions of the product not authorised by Gerriets GmbH.

## 11 Abbreviations and terms

### 11.1 Abbreviations and terms

|            |                                                                                                                                                                                                                                                                             |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ELL/R      | Entertainment load limit at rest in accordance with DIN EN 17206:2022-02. This characterises the maximum possible load at rest and corresponds to half of the working load limit (WLL).                                                                                     |
| EMC        | EMC stands for Electromagnetic Compatibility. This describes the ability of electrical devices and systems to function without interference in electromagnetic environments.                                                                                                |
| IP         | The IP protection class describes the protection of devices against moisture, dust, etc. It varies from IP00 (no protection) to IP68 (complete protection against dust and permanent submersion) and indicates the degree of protection.                                    |
| DMX        | DMX stands for Digital Multiplex and is a digital transmission protocol that is used to transmit control data for lighting and sound systems. It enables several devices to be controlled via a single connection and data to be exchanged in real time.                    |
| A          | Ampere (A) is a unit of electric current.                                                                                                                                                                                                                                   |
| DMX512     | DMX512 is an industrial standard protocol for the transmission of digital control signals e.g. operating lighting and stage equipment. It enables the transmission of up to 512 channels via a single DMX cable and is widely used in many professional stage environments. |
| V DC       | VDC stands for "Volt Direct Current". This is a type of current in which the current flows in a single direction and remains constant.                                                                                                                                      |
| Nm         | Nm (Newton metres) is the unit of measurement for the turning effect of a force.                                                                                                                                                                                            |
| $V_{\max}$ | Maximum speed of the corresponding device.                                                                                                                                                                                                                                  |
| $V_{\min}$ | Minimum speed of the corresponding device.                                                                                                                                                                                                                                  |

## 12 Contact and warranty

### 12.1 Contact us

|                 |                   |                                                    |
|-----------------|-------------------|----------------------------------------------------|
| Business hours: | Monday – Thursday | 08:00 a.m. – 12:00 p.m.<br>01:00 p.m. – 05:00 p.m. |
|                 | Friday            | 08:00 a.m. – 12:00 p.m.<br>01:00 p.m. – 03:30 p.m. |

Telephone switchboard: Our switchboard is available for you continuously during business hours. Outside of business hours, you can leave messages on our answering machine for an unlimited time or send us your enquiry by e-mail.

|            |                      |                  |
|------------|----------------------|------------------|
| Telephone: | Centre / Switchboard | +49 7665 – 960 0 |
|------------|----------------------|------------------|

|          |                      |                    |
|----------|----------------------|--------------------|
| Telefax: | Centre / Switchboard | +49 7665 – 960 125 |
|----------|----------------------|--------------------|

|            |                  |                                                                              |
|------------|------------------|------------------------------------------------------------------------------|
| Addresses: | Delivery address | Gerriets GmbH<br>Stage equipment<br>Im Kirchenhürstle 5–7<br>D-79224 Umkirch |
|            | Postal address   | Gerriets GmbH<br>Stage equipment<br>P.O. Box 1154<br>D-79220 Umkirch         |

|                              |              |
|------------------------------|--------------|
| Commercial Register Freiburg | HRB-No. 2678 |
| VAT number                   | DE 142191543 |

|                   |                 |
|-------------------|-----------------|
| Managing Director | Hannes Gerriets |
|-------------------|-----------------|

|                         |          |                                                        |
|-------------------------|----------|--------------------------------------------------------|
| Further contact options | Internet | <a href="http://www.gerriets.com">www.gerriets.com</a> |
|-------------------------|----------|--------------------------------------------------------|

|  |        |                                                          |
|--|--------|----------------------------------------------------------|
|  | E-mail | <a href="mailto:info@gerriets.com">info@gerriets.com</a> |
|--|--------|----------------------------------------------------------|

Contacts to our locations worldwide & QR code to the website with further international contact options can be found on the back of this document.

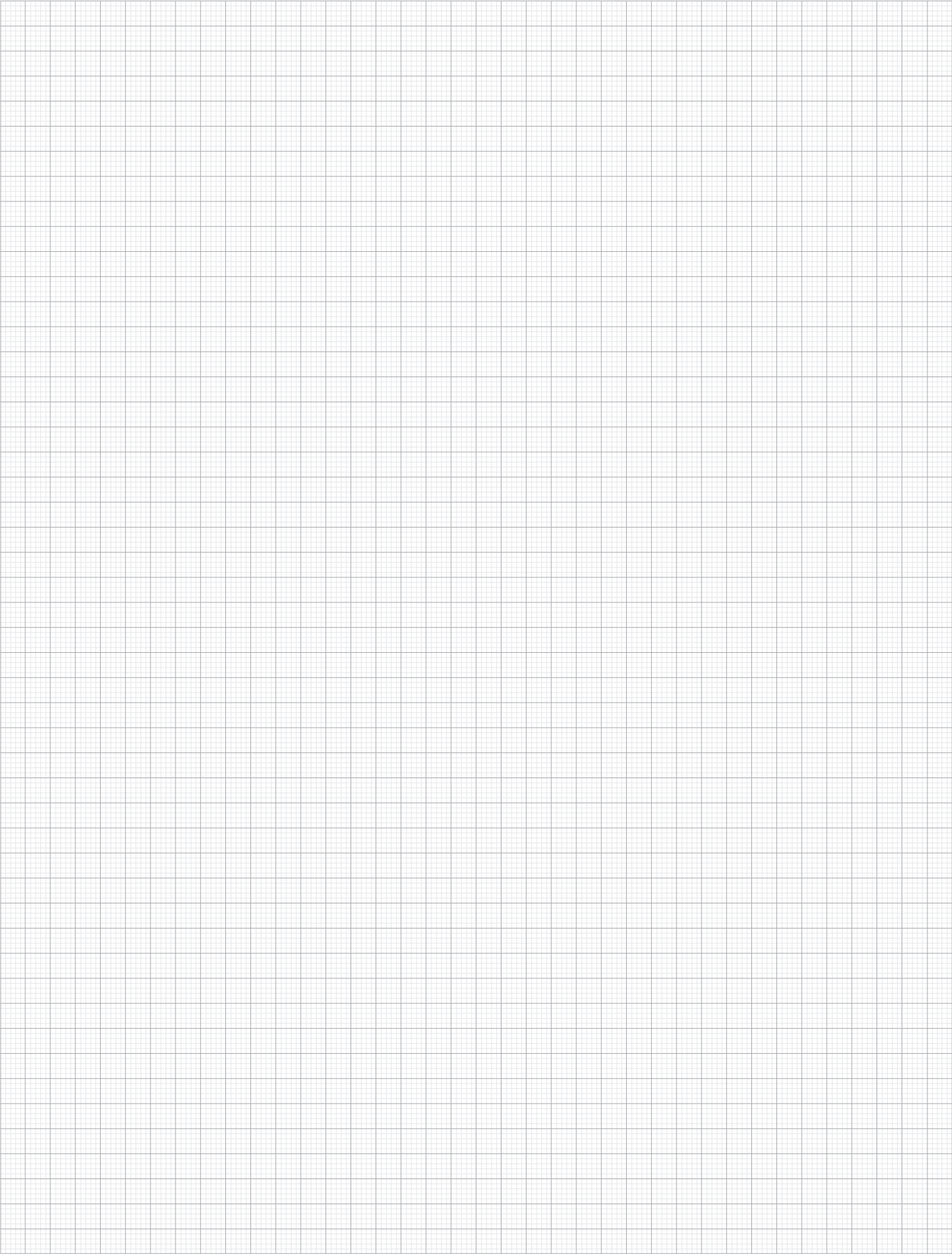
## 12.2 Customer service and repair

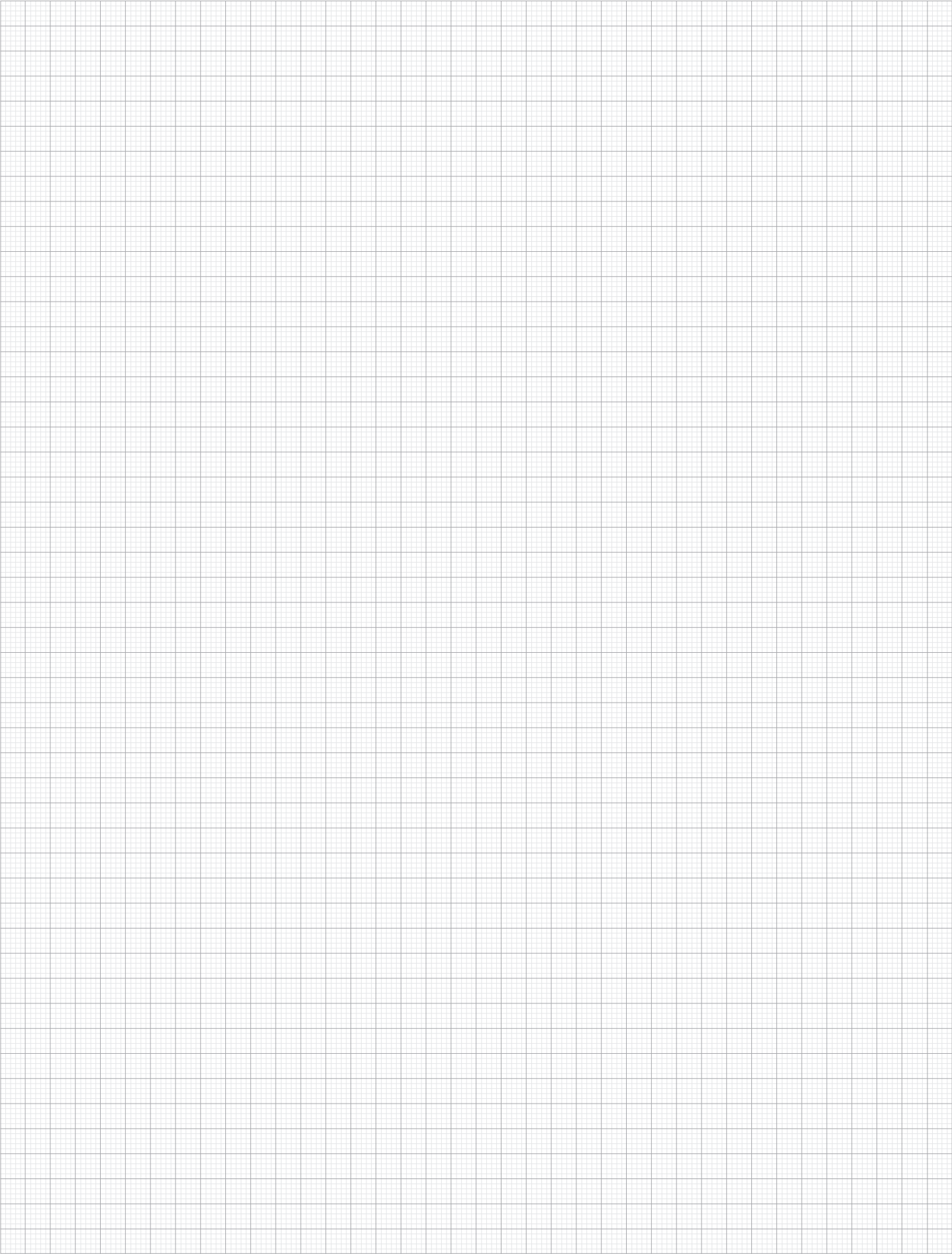
Our product is supplied with a two-year warranty. This covers the replacement or repair of defective parts caused by material or manufacturing faults. The warranty does not cover damage caused by improper use, overloading or improper maintenance.

Please note that modifications or repairs by unauthorised personnel can lead to faults that are not covered by the warranty.

In the event of a defect, please contact our customer service team to check your warranty claim and discuss how we can best help you. With our high quality standards, your complete satisfaction is always important to us, and we are available to you during our business hours.

Please also see our general terms and conditions at [www.gerriets.com](http://www.gerriets.com).





# GERRIETS WORLDWIDE

## Gerriets GmbH

HEADQUARTERS  
[gerriets.com](https://gerriets.com)

## Gerriets S. A. S.

FRANCE  
[gerriets.com/fr](https://gerriets.com/fr)

## Gerriets International Inc.

USA  
[gerriets.us](https://gerriets.us)

## Gerriets Great Britain Ltd.

[gerriets.com/gb](https://gerriets.com/gb)

## Gerriets Austria CEE GmbH

[gerriets.com/at](https://gerriets.com/at)

## Gerriets Sp. z o.o.

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[gerriets.com/pl](https://gerriets.com/pl)

## Gerriets España S. L.

[gerriets.com/es](https://gerriets.com/es)

## Gerriets Belgique

Gerriets SARL  
[gerriets.com/be](https://gerriets.com/be)

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[gerriets.com/hr](https://gerriets.com/hr)

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## Gerriets

Czech Republic / Slovakia

[gerriets.com/cz](https://gerriets.com/cz)

## Gerriets Taiwan

[gerriets.com/tw](https://gerriets.com/tw)

