

Rittal – The System.

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WT Wire Storage

4051.026
4051.027

WT Wire Storage XL

4051.037
4051.038



Assembly instructions

ENCLOSURES

POWER DISTRIBUTION

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



Table of contents

1	Notes on documentation	3
1.1	Retention of documents.....	3
1.2	Symbols used in this document	3
1.3	Intended use.....	3
2	Assembly	5
2.1	Overview.....	5
2.2	Assembly procedure.....	5
2.3	Required tools	14
3	Operation	15
4	Annex	17
4.1	Scope of delivery.....	17
4.2	Technical data	17
4.3	Mounting options.....	18
5	Warranty	19
6	Customer service addresses	19

1 Notes on documentation

This documentation is mainly used for mounting the wire storage (XL).

1.1 Retention of documents

The assembly and operating instructions, together with all other applicable documents, are integral components of the product. They must be handed over to the persons dealing with the product and must always be available and on hand for operating and maintenance personnel.

1.2 Symbols used in this document

The following symbols are used in this documentation:



Danger!

Hazardous situation which will result in death or serious injury if the instructions are not followed.



Warning!

Hazardous situation which may lead to death or serious injury if the instructions are not followed.



Caution!

Hazardous situation which may lead to (minor) injuries if the instructions are not followed.



Note:

Indicates situations that can lead to material damage.

- This symbol indicates an "action point" and shows that you should perform an operation or procedure.

1.3 Intended use

The Wire Storage (XL) is a modular and space-saving wire storage system designed for the storage of wire drums and for the central wire feeding for the Wire Terminal. The Wire Storage (XL) allows the storage of 6 wire drums per rack on two levels. The central unit can be extended on the left and right side by one additional module each. Therefore, the storage and supply can be extended up to 36 wire drums.



Note:

Read instructions completely before starting work.



Caution!

Wear safety shoes when moving or loading the Wire Storage to avoid injury from accidental rolling over feet and toes or from falling wire barrels.

1 Notes on documentation

En



Caution!

Wear suitable work clothing without protruding parts to avoid being caught by moving wires, especially in the area of wire deflection. Do not wear rings, chains or other jewelry.

Operating instructions in other languages can be found on our website:



[Click here!](#)

2 Assembly



Note:

The assembly/installation may only be carried out by appropriately trained specialist personnel.

2.1 Overview



Fig. 1: Structure Wire Storage

Legend:

1		2		3	4
4051.027	WT Wire Storage, additional module	4051.026	WT Wire Storage, central unit	central unit deflection center	additional module deflection left/right kg
4051.038	WT Wire Storage XL, additional module	4051.037	WT Wire Storage XL, central unit		



Note:

Tools or accessories shown are not part of the scope of delivery

2.2 Assembly procedure



Note:

Assembly and disassembly require basic mechanical knowledge.

- Check the entire shipment for completeness using the enclosed delivery note!

When installing the product, please proceed as follows:

Remove transport feet and position shelf:

1. Lift the Wire Storage slightly with a lift truck

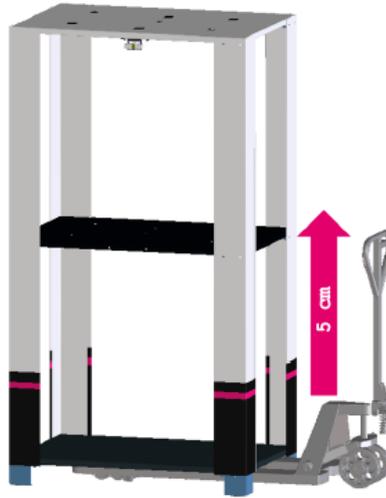


Fig. 2: Lifting the Wire Storage

2. Loosen the fastening screws, remove the transport feet and unscrew the adjustable feet slightly.

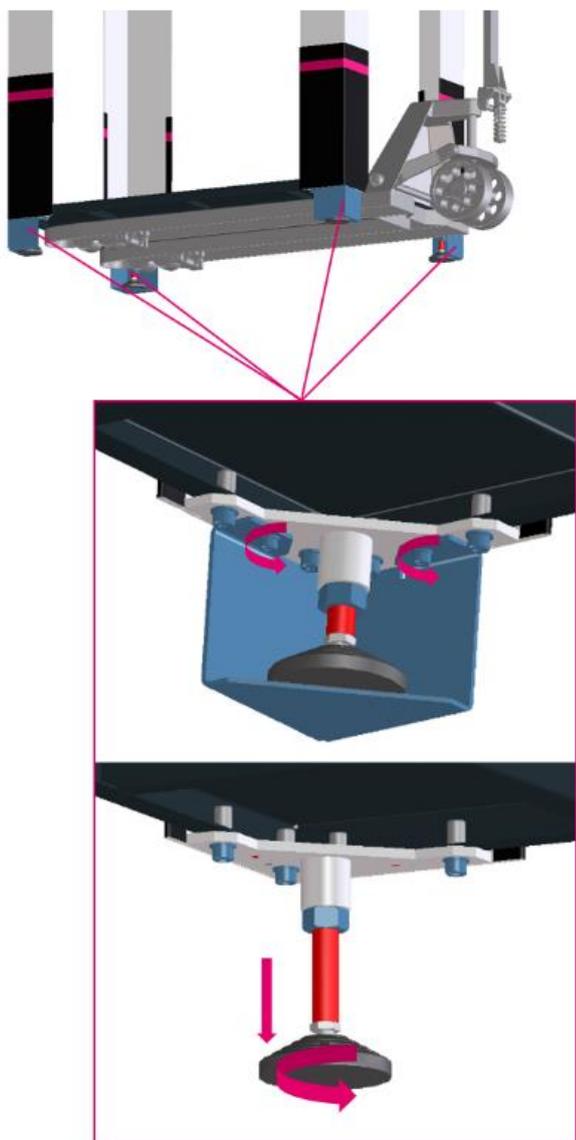


Fig. 3. Loosening the screws and unscrewing the adjustable feet

3. Place the Wire Storage in the intended position.



Fig. 4: Positioning the Wire Storage

4. Align the Wire Storage horizontally by adjusting the feet.

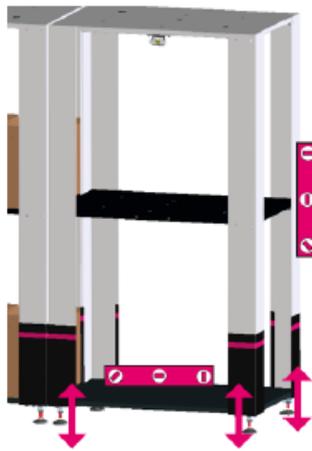


Fig. 5: Horizontal alignment of the Wire Storage

Loading the shelf:

1. First load the lower level.

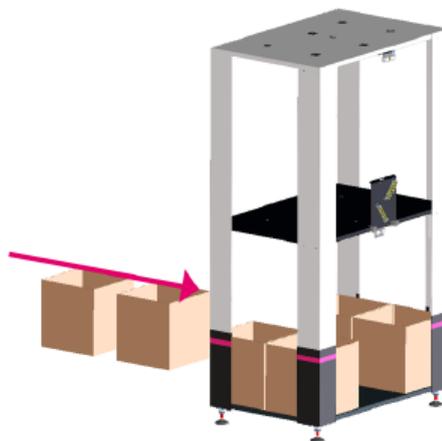


Fig. 6: Loading lower shelf

- Then load the upper level.

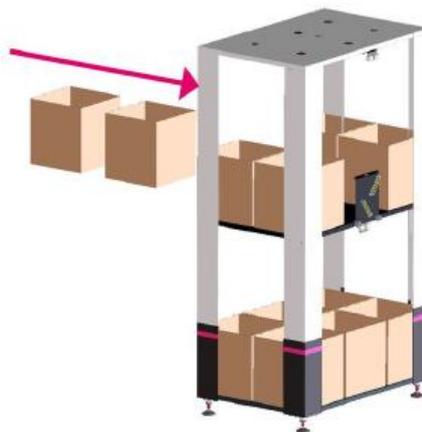


Fig. 7: Loading upper level



Warning!

Observe maximum permissible weights (see Technical data)!

Thread in wires (upper level shelf):

- Guide the wire straight up into the plastic tab.
- Lead the wire to the front via the central deflection (only applies to the four wire drums in the corners).
- Divert wires downwards over the deflection at the leading edge.
- Divert wires towards the **Fehler! Verweisquelle konnte nicht gefunden werden.** (XL) (applies to **Fehler! Verweisquelle konnte nicht gefunden werden.**).
- Divert wires towards the machine (applies to the **Fehler! Verweisquelle konnte nicht gefunden werden.** (XL)).

In addition, deflect the wires from the side shelves first over the diagonally mounted deflector rollers downwards and then forward towards the machine.

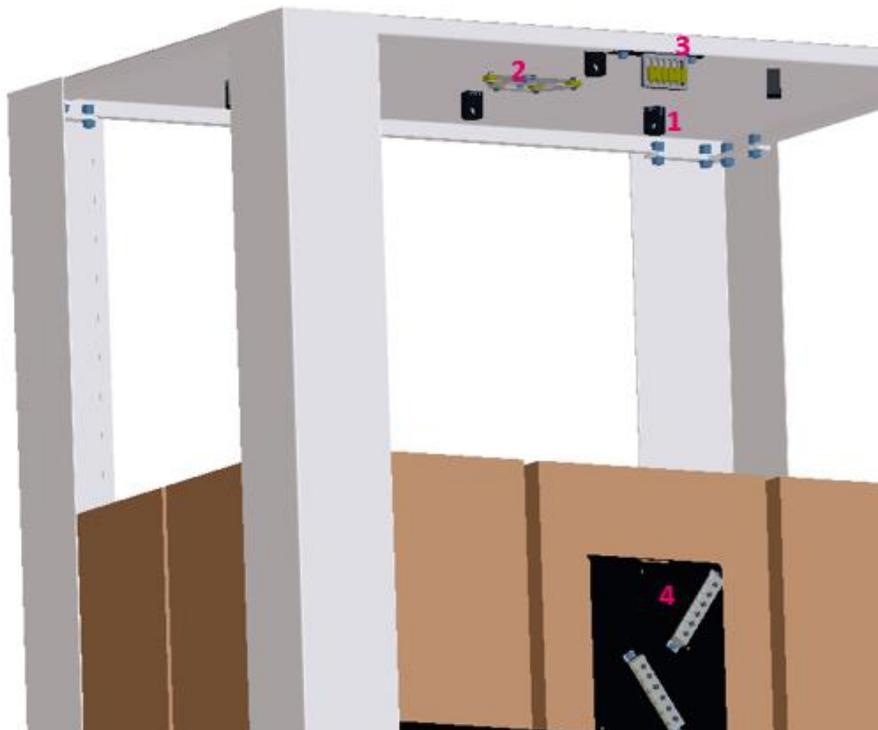


Fig. 8: Wire threading upper level of the additional module

Thread the wires (lower level shelf):

1. Thread the wire straight up into the plastic tab.
2. Lead the wire over the central deflection to the front (only applies to the four wire drums in the corners).
3. Redirect wires upwards over the deflection at the leading edge.
4. Redirect wires towards the **Fehler! Verweisquelle konnte nicht gefunden werden.** (XL) (applies to **Fehler! Verweisquelle konnte nicht gefunden werden.** (XL).)

Divert wires towards the machine (applies to the **Fehler! Verweisquelle konnte nicht gefunden werden.** (XL)).

In addition, deflect the wires from the side shelves first over the diagonally mounted deflector rollers downwards and then forwards towards the machine.

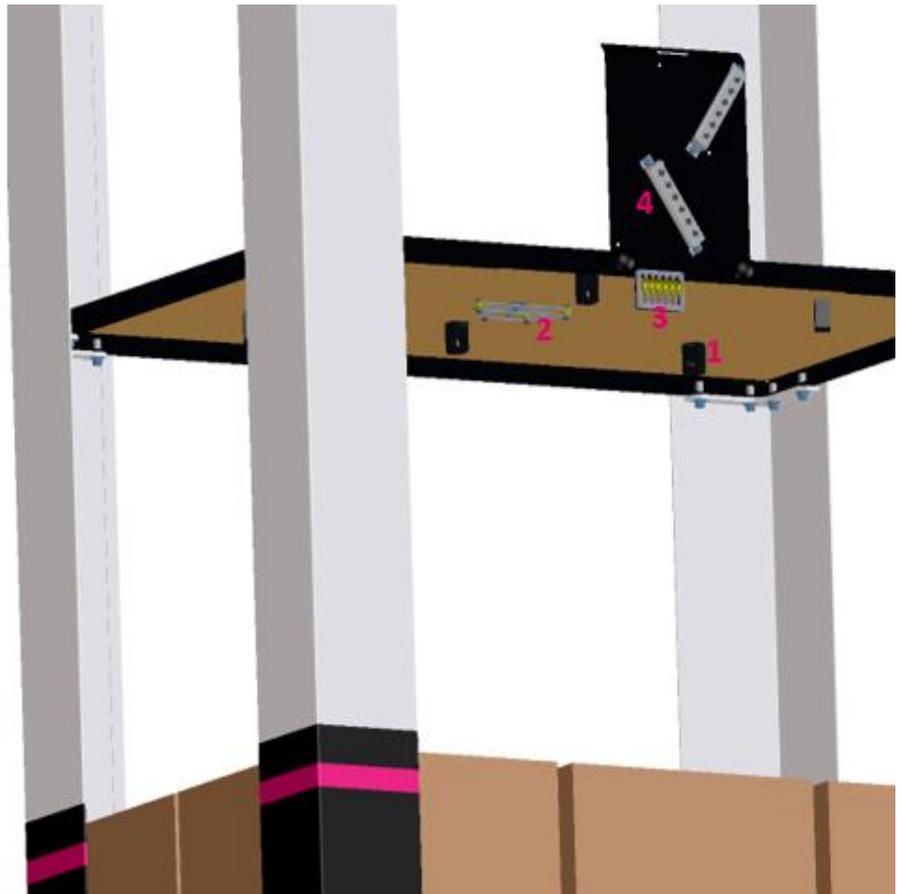


Fig. 9: Wire threading lower level of the additional module

Mount deflection:

1. The deflection for the additional module (XL) is fastened as shown in Fig. 10 whether the deflection is required for the right or left side.
2. Mount the deflection for the central unit (XL) and for the additional module (XL) to the Wire Storage (XL) as shown in Fig. 11

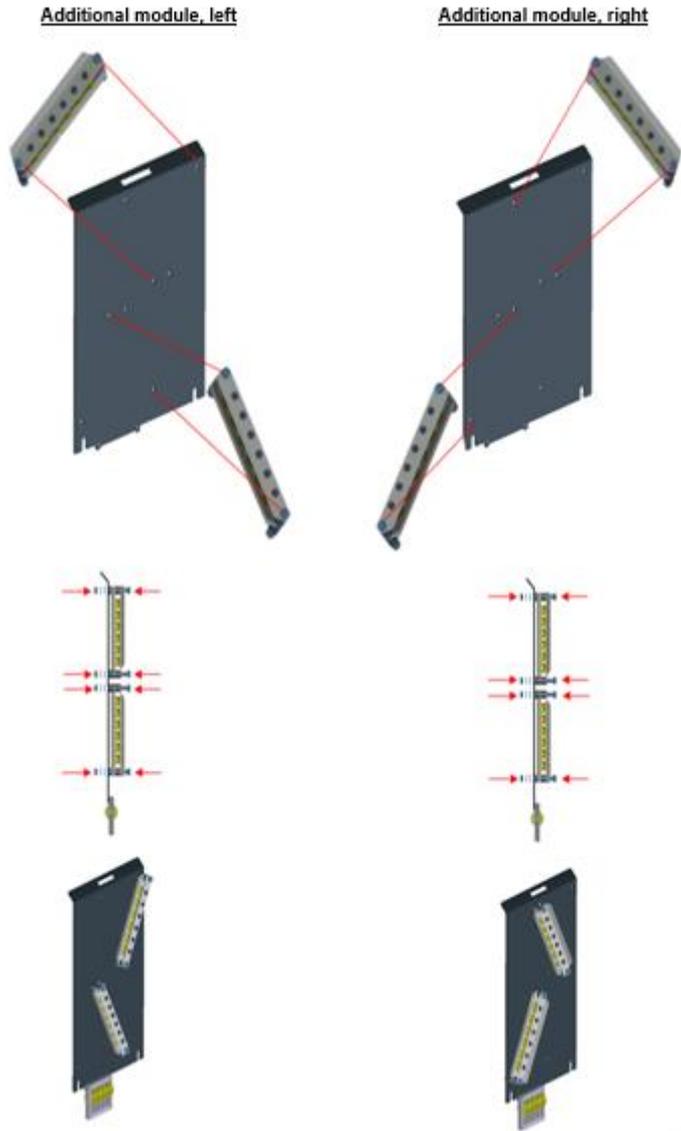


Fig. 10: Mounting deflections additional module

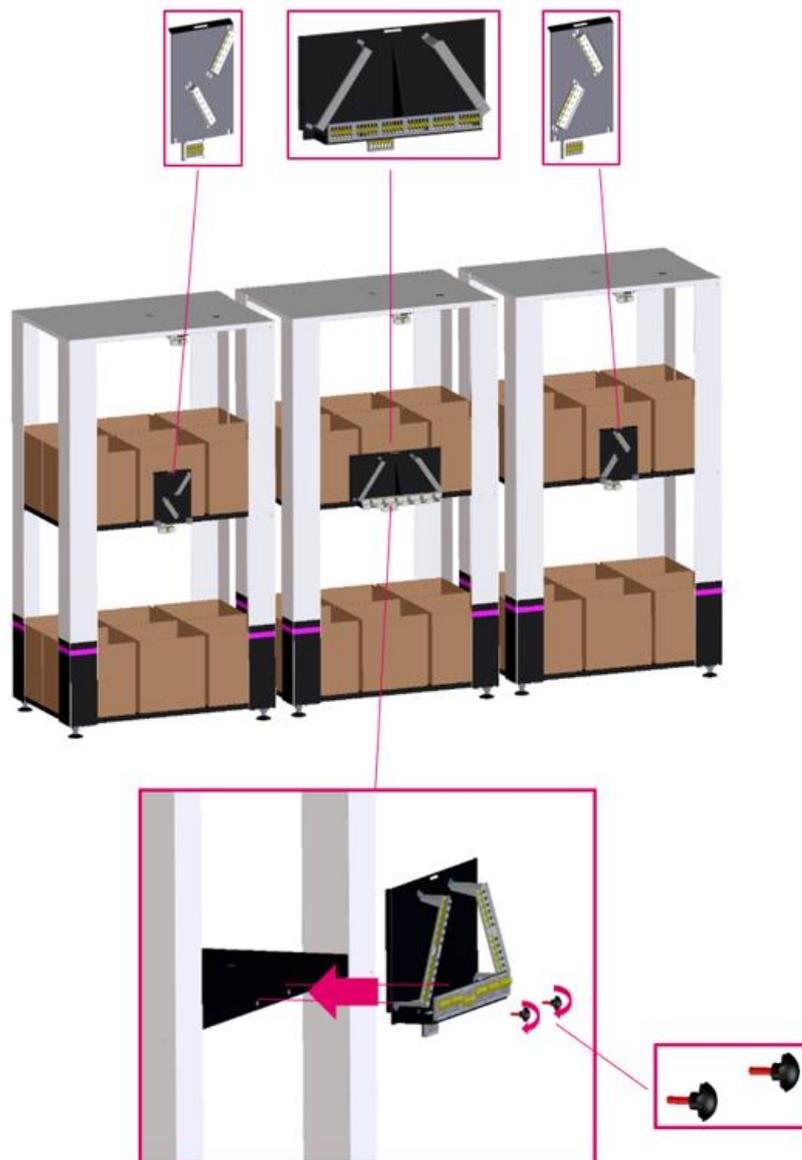


Fig. 11: Mounting deflections on Wire Storage



Note:

In order to guarantee a trouble-free operation of the system, it is important to ensure that wires do not cross at any position. This also applies to the feeding of the wires from the Wire Storage (XL) into the wire feed magazine of the Wire Terminal.

2.3 Required tools

Designation	Size	Figure
Allen wrench	1x 5 mm	
Open-end wrench	1x 24 mm	
Pallet truck	Minimum length 120 cm	
Spirit level	no specifications	

Tab. 1: Required tools

3 Operation

The operation of the product is not changed by these accessories.



Danger!

Incorrect handling or incorrect loading increases the risk of tipping over and thus immediate danger to life and limb.

Therefore:

- Only allow work to be carried out by trained personnel.
- The Wire Storage must always be loaded so that the wire drums with the higher weight are on the lower shelf.
- Under no circumstances climb onto the shelf.
- Do not lean ladders or other objects against the shelf.
- Ensure that the Wire Storage is standing securely on firm, level ground. Level out slight unevenness by adjusting the levelling feet.
- Ensure that the loads are evenly distributed.



Warning!

- The prescribed maximum load and the maximum load of the individual shelves according to the technical data must be observed.
- Ensure good accessibility to allow easy loading and unloading from all sides.
- Due to the speed at which the wire is drawn in, there is a risk of friction burns and the danger of cuts and crushing injuries, especially at the wire deflectors:
 - Never load the Wire Storage during production or handle wires or wire drums during production.
 - Avoid the wire feeding area during production. The area must be marked and unauthorised persons must be kept away from it.



Warning!

There is a particular risk of tripping in the area between the Wire Storage and the Wire Terminal due to taut or loosely hanging wires. Therefore:

- Avoid staying in the wire feed area during production.
- Visually mark the area and keep unauthorized persons away from the area.
- Always keep the work area clean.



Note:

Wires with poorer bending properties, usually those with a higher cross section, should be placed in the middle Wire Storage to avoid frictional disturbances at the deflection rollers.

The Wire Storage is not designed for the use of ring or small box wires (100 m, 250 m or 500 m).



Note:

In order to ensure trouble-free operation of the Wire Storage and a smooth workflow, the distances according to the installation plan of the product including accessories must be observed when setting up the Wire Storage.



Warning!

If any damage is found or evident, do not use the Wire Storage until it has been repaired.

In order to ensure the longest possible and trouble-free operation, repair and maintenance work should be carried out at regular intervals. In particular:

- Check all screws for tightness.
- Clean all deflectors and check for proper function.
- Clean all surfaces with a soft, damp cloth.



Caution!

Do not use aggressive cleaning agents! In case of doubt, it is advisable to check the compatibility on a non-visible place.

4 Annex

4.1 Scope of delivery

Item	Description	Quantity
1	Central unit pre-assembled	1
2	Screw with handle	2 per shelf
3	Central deflection (can be used for central unit and additional module)	1

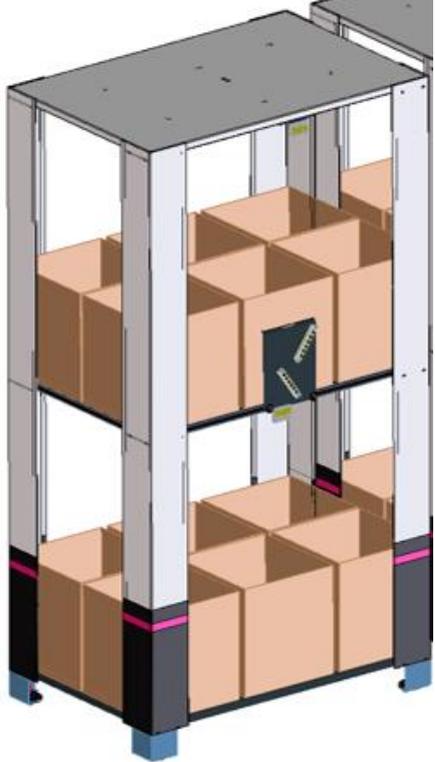
Tab. 2: Scope of delivery

4.2 Technical data

Information	WT Wire Storage	WT Wire Storage XL	Unit
Dimensions W x H x D	1200 x 800 x 2250	1550 x 2250 x 1050	mm
Own weight	130	155	kg
Max. permissible total weight	880	880	kg
Max. permissible load on the lower shelf Equivalent to 6 wire drums of 90 kg each	540	540	kg
Max. permissible load on the upper shelf Equivalent to 6 wire drums of 35 kg each	210	210	kg

Tab. 3: Technical data

4.3 Mounting options

Designation	Model no.	Figure
<p>Additional module or additional module XL with deflection (can be used right and left)</p>	<p>4051.027 4051.038 (XL)</p>	

Tab. 4: Mounting options

5 Warranty

The warranty conditions can be found in the current Rittal sales and delivery conditions. They can be found on our website.



Note:

Any intervention by third parties during the warranty period releases the manufacturer from its warranty obligations.

6 Customer service addresses

■ For technical questions please contact our technical support:

- Phone.: +49(0)2772 505-9052
- E-mail: <mailto:info@rittal.com>
- Website: www.rittal.com

■ For sales or service enquiries, please contact your local Rittal organisation at:

<http://www.rittal.com/contacts>

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