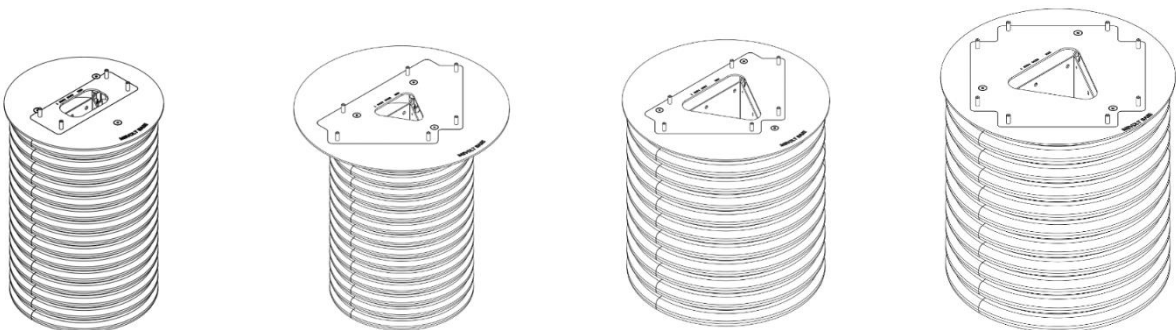
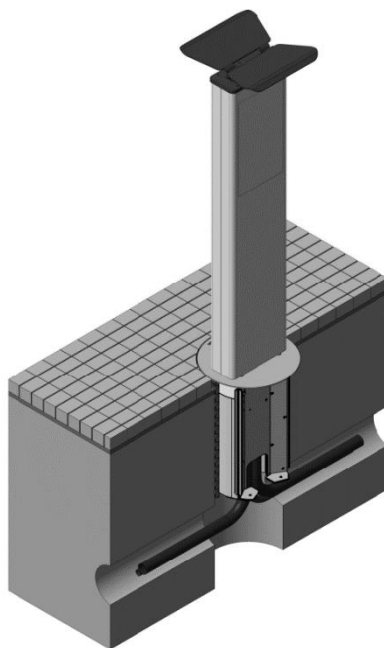


# MEVOLT

Installation instructions for  
MEVOLT foundation system  
MK81/82 MEVOLT BASE DN350  
MK83/84 MEVOLT BASE DN500



## Contents




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## GENERAL INFORMATION

These installation instructions are part of the product and contain all the information required for correct and safe installation. It serves as a guideline and works alongside any local building regulations. In the event of a conflict, the local building regulations take precedence over these instructions.

- Read these installation instructions carefully before installing the MEVOLT BASE!
- Keep these assembly instructions and pass them on to subsequent users/owners!
- The current version of the assembly instructions is not yet available on the Internet!

### *Use of symbols and highlights*

	<b>Warning</b>	This signal word indicates a hazard with a medium level of risk which, if not avoided, may result in minor or moderate injury.
	<b>Caution</b>	This signal word refers to a hazard with a low risk level that, if not avoided, may result in minor or moderate injury.
	<b>Hint</b>	This signal word indicates a technical feature or (if ignored) possible damage to the product.

### *Safety instructions*

These installation instructions are intended for certified and qualified installation personnel with appropriate qualifications for work on electrotechnical systems.

#### **General safety instructions**

- Use MEVOLT BASE only when in perfect technical condition!
- If there are signs of a possible danger to persons or the device, an authorized specialist must be commissioned immediately to remedy it in accordance with the nationally applicable rules!
- The BASE may only be used for applications approved by MEVOLT or listed in these assembly instructions!
- Do not install the foundation with WALLBOX CARRIER near heat sources!

### **Support**

If you have any questions, please contact our technical support team by phone or email (Mon-Thu 8am - 4pm, Fri 8am - 1pm) +49 8191 96 36 00 or [info@mevolt.de](mailto:info@mevolt.de)

## WARRANTY AND LIABILITY

If defects are to be complained about at the time of delivery or initial assembly, please contact the specialist dealer from whom the MEVOLT BASE was purchased.

MEVOLT accepts no liability for defects and damage resulting from the fact that installation and operating instructions and the instructions contained therein were not observed.

This disclaimer applies in particular to:

- installation by untrained personnel
- improper use
- repairs by untrained personnel
- use of external components

Additional points must be considered and are excluded as a basis for warranty and liability:

- corrosion on the BASE FRAME is acceptable.
- rust bloom on the BASE PLATE is acceptable.
- Inclusions of zinc on the surfaces due to the hot dip galvanising process (the surface is spotted in places) are acceptable.

No liability can be accepted for the substrate created outside the base. It must be ensured that it is properly compacted or load bearing.

The manufacturer/installer is responsible for any other components installed, such as wall boxes, distribution boards or superstructures, not described in this manual, as well as any other additional components installed. MEVOLT does not give any warranty or assume any liability for these components.

All earthing measures must be carried out, measured, and recorded accordingly by qualified electricians in order to achieve an adequate protective effect that is suitable for the ambient conditions. All legal requirements, applicable standards and guidelines must be observed.

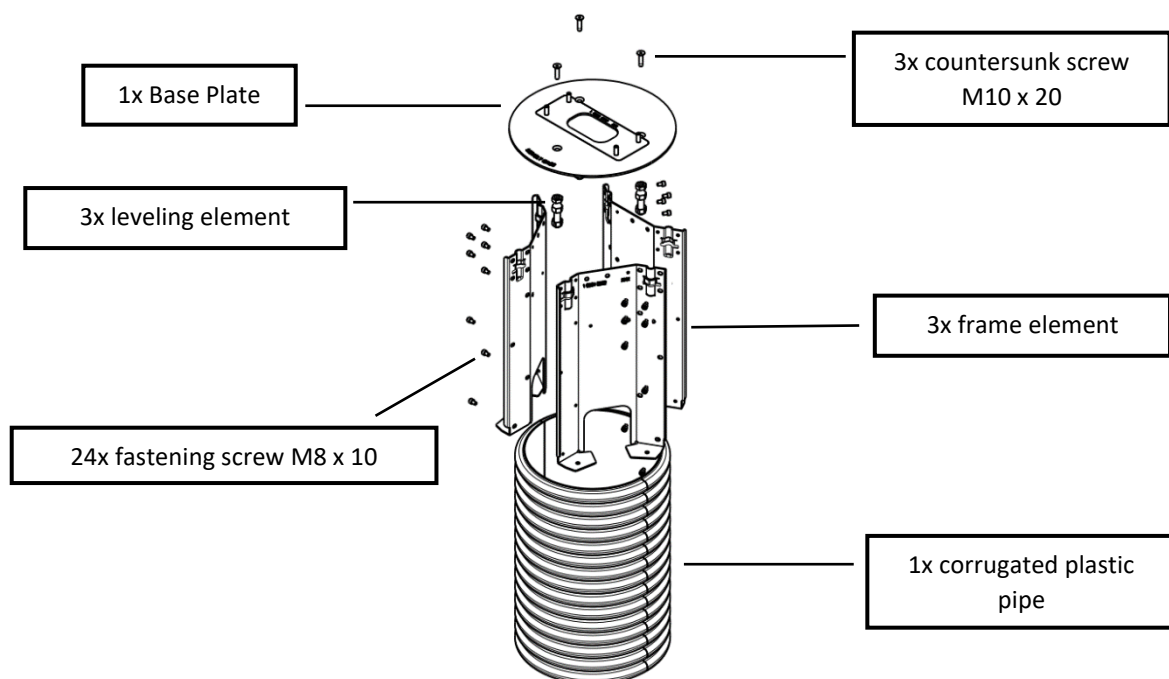
### **Disclaimer**

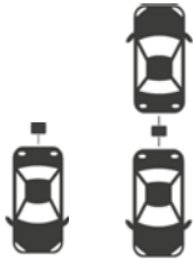
All rights reserved. No part of this publication may be reproduced without the prior written consent of MEVOLT.

This guide has been prepared with the greatest possible care. Nevertheless, we cannot guarantee the correctness of the information provided.

MEVOLT reserves the right to make changes to the information in this publication at any time without prior notice.

## OVERVIEW MEVOLT BASE single components

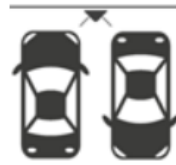




**MEVOLT BASE  
MK81 DN350**  
for WALLBOX CARRIER  
MK21 SINGLE  
MK22 DUPLEX



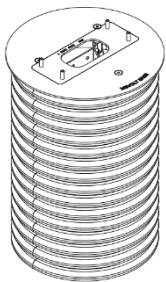
**MEVOLT BASE  
MK82 DN350**  
for WALLBOX CARRIER  
MK23 DELTA



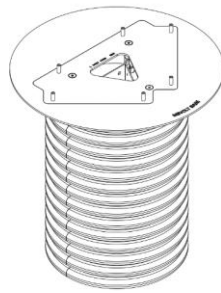
**MEVOLT BASE  
MK83 DN500**  
for WALLBOX CARRIER  
MK23 DELTA



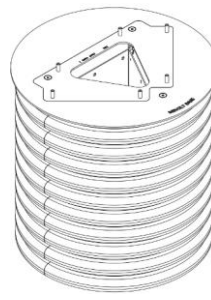
**MEVOLT BASE  
MK84 DN500**  
for WALLBOX CARRIER  
MK24 QUATTRO



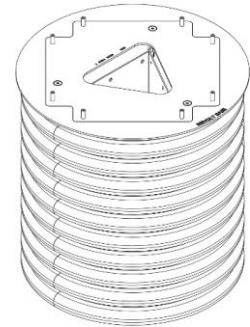
Set MK81 Base Plate for MK22



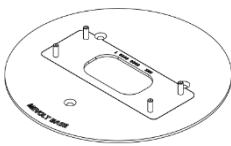
Set MK82 Base Plate for MK23



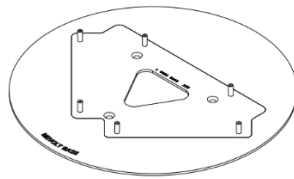
Set MK83 Base Plate for MK23



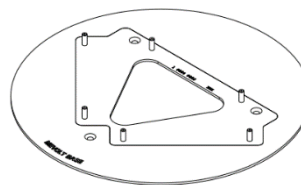
Set MK84 Base Plate for MK24



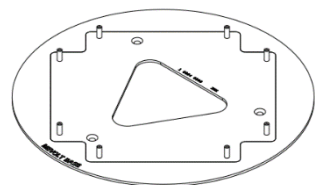
Set Base Frame DN350



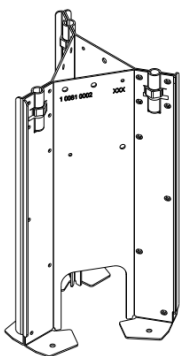
Set Base Frame DN350



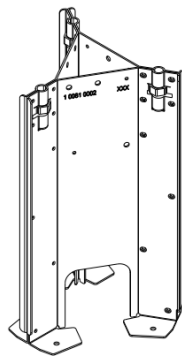
Set Base Frame DN500



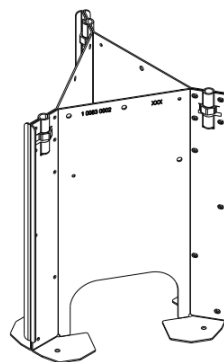
Set Base Frame DN500



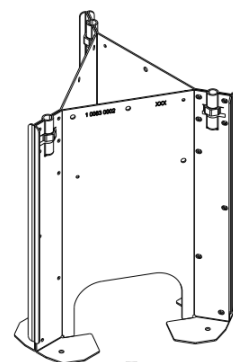
corrugated plastic pipe DN350



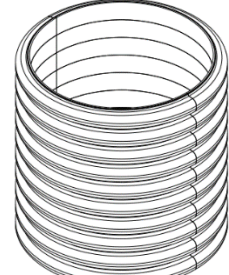
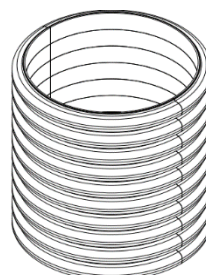
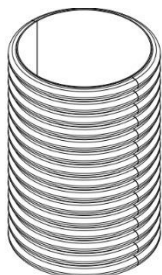
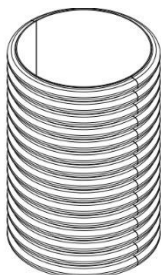
corrugated plastic pipe DN350






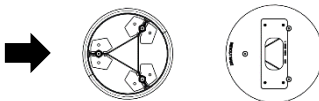

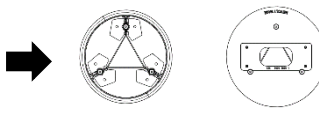

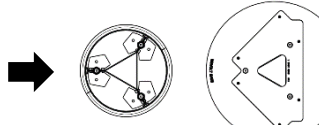

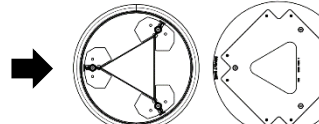
corrugated plastic pipe DN500



corrugated plastic pipe DN500



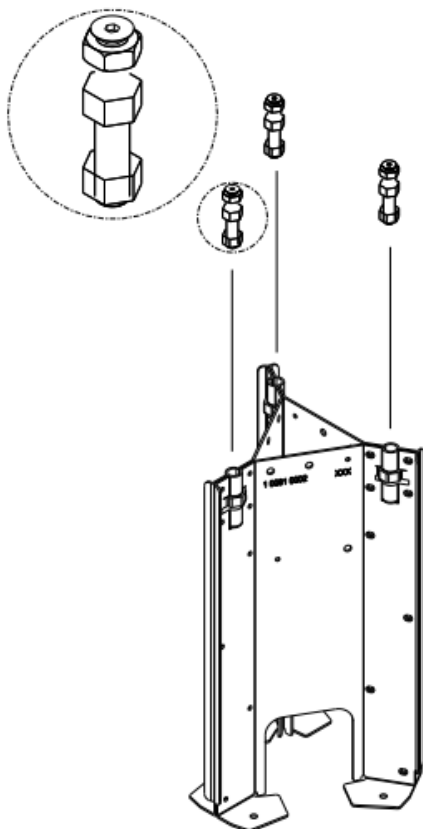
ALIGNMENT OF THE FRAME ELEMENT TO THE SPECIFIC PARKING SITUATION

	<p>MEVOLT MK21 SINGLE</p>	<p>When aligning the frame element ensure that one tip points towards the front of the parking lot.</p> 
	<p>MEVOLT MK22 DUPLEX</p>	<p>When aligning the frame element ensure that one tip points towards the front of the parking lot.</p> 
	<p>MEVOLT MK22 DUPLEX</p>	<p>When aligning the frame element make sure that that one tip is offset by 90° to the front sides of the parking lot.</p> 
	<p>MEVOLT MK23 DELTA</p>	<p>When aligning the frame element make sure that one tip points towards the front of the parking lot.</p> 
	<p>MEVOLT MK24 QUATTRO</p>	<p>When aligning the frame element make sure that one tip points towards the front of the parking lot.</p> 

MOUNTING MEVOLT BASE DN350/500

1. Inserting leveling elements

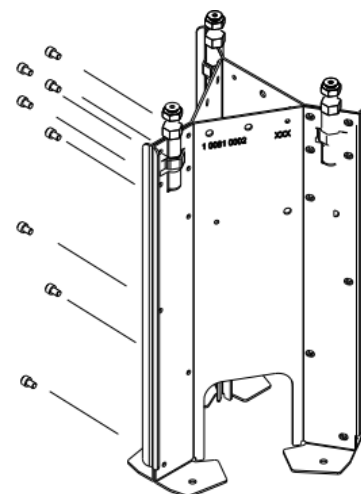
2. Connecting frame elements



insert levelling elements by assembling the frame elements

Use the 24 M8x10 Allen screws to join the frame elements.

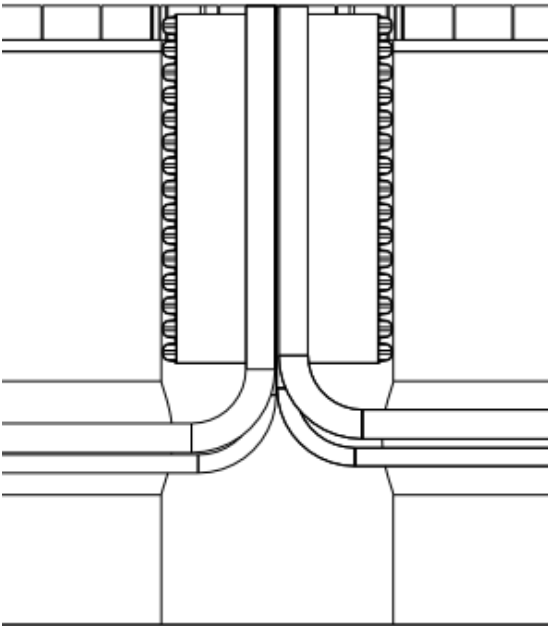
tightening torque max. 20Nm



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### 3. Insert the corrugated plastic pipe into the

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Insert the corrugated plastic pipe into the hole provided and excavated. Insert the empty conduits for the supply lines from below; if necessary, drill holes or cutouts. Match the height of the corrugated plastic pipe with the desired closing height of the end covering.

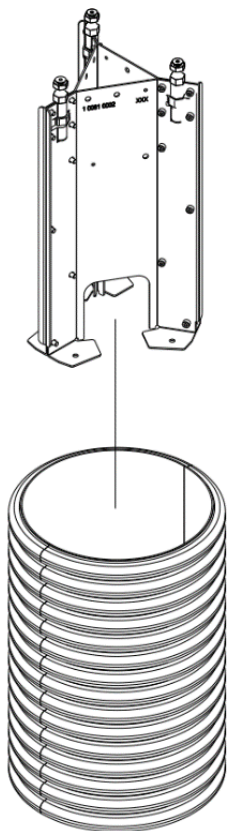
Fill and compact the gap between the shaft hole and the corrugated plastic pipe with compactable material in stages to the upper edge of the pipe or paving level.

**Backfilling and compaction according to ZTV EStB 09**

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### 4. Insert the Base Frame into corrugated plastic pipe

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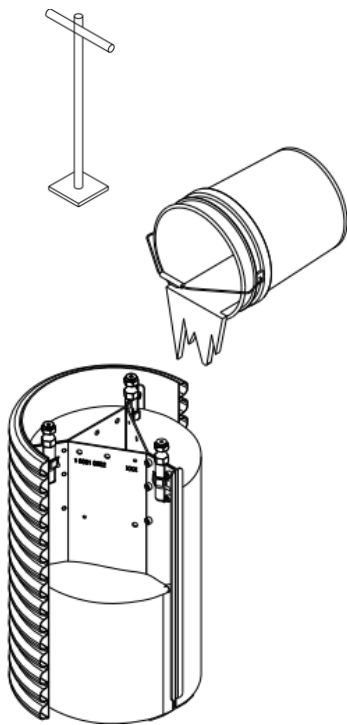


Insert the assembled base frame into the already set and compacted corrugated plastic pipe.

**! Caution: Pay attention to the rotational alignment of the frame to the parking situation (see page 5)!**

Coordinate the insertion height of the base frame with the desired final height of the final covering and, if necessary, form a load-bearing base using a compactable sand/gravel mixture for laying natural stone/crushed sand.

**5. Backfill and compact Base Frame**



Fill the spaces between the base frame and the corrugated plastic pipe layer by layer in 10cm layers up to the upper edge of the base frame and compact.

Before compacting each layer, the surface must be evenly moistened, e.g. using a watering can with a wide spreader. (Use approx. 5-10 litres of water per layer).

**Filling material in accordance with DIN EN13043**

- Crushed sand with a grain size of 0-5mm or similar.
- Mixture                    70% crushed sand 0-2mm  
                                     30% grit 2-5mm  
    (the mixture must be prepared in advance in a container)
- For even greater stability, backfilling to DIN 18555 can be carried out after 28 days, e.g. using dry mortar with a compressive strength of >35 N/mm<sup>2</sup>.



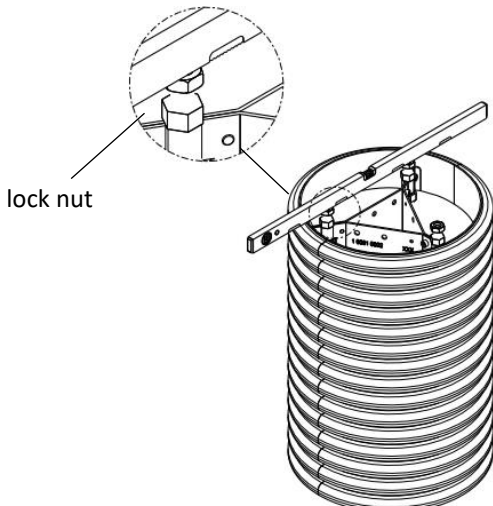
**! Ensure sufficient compaction!**

A compaction plate mounted on an SDS drill or hand tamper can be used for compaction.

**6. Levelling**

Use the first leveller to set the desired height in accordance with the final covering. Then place the other two levellers crosswise in the water. Secure the adjustment with the lock nuts.

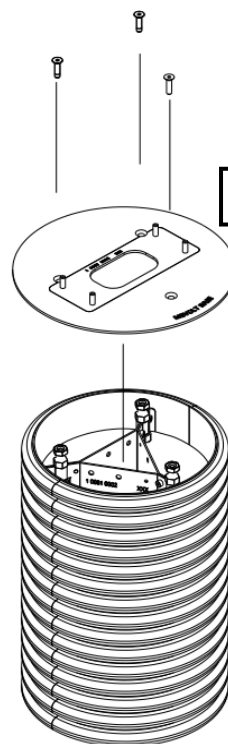
Tightening torque max. 200Nm

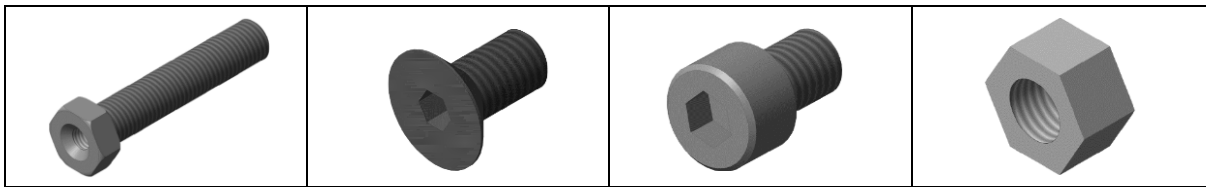


**7. Base Plate assembly**

Use 3x M10x20 countersunk screws to secure the required base plate.

Tightening torque max. 40Nm





3x hex head bolt M16x80

3x countersunk screw  
M10x20

24x cylinder head bolt M8x10

6x hexagon nut M16

## REQUIRED TOOLS

Tool	Description
6mm Allen key	for attachment of fixing screws, countersunk head screws
2x wrench SW24	for levelling and locking hex head bolts
spirit level	to align the base plate

## TECHNICAL DATA

MEVOLT BASE MK21/22 DN350	
weight	22,5 kg
dimensions (Ø x H)	Ø pipe (350mm), Ø plate (430mm), H=650mm
material	corrugated plastic pipe (PE-HD), Base Frame (DC01 ZE 25/25), Base Plate (S235 JR hot-dip galvanised)

MEVOLT BASE MK23 DN350	
weight	28 kg
dimensions (Ø x H)	Ø pipe (350mm), Ø plate (600mm), H=650mm
material	corrugated plastic pipe (PE-HD), Base Frame (DC01 ZE 25/25), Base Plate (S235 JR hot-dip galvanised)

MEVOLT BASE MK23 DN500	
weight	36 kg
dimensions (Ø x H)	Ø pipe (500mm), Ø plate (600mm), H=640mm
material	corrugated plastic pipe (PE-HD), Base Frame (DC01 ZE 25/25), Base Plate (S235 JR hot-dip galvanised)

MEVOLT BASE MK24 DN500	
weight	36 kg
dimensions (Ø x H)	Ø pipe (500mm), Ø plate (600mm), H=640mm
material	corrugated plastic pipe (PE-HD), Base Frame (DC01 ZE 25/25), Base Plate (S235 JR hot-dip galvanised)

## DECOMMISSIONING OF THE MEVOLT BASE SYSTEM

- Disassembly of foundation possible.
- Remove base plate and crushed sand/gravel mixture- Removal of the base frame
- Excavate of the corrugated plastic pipe
- All components can be reused for recommissioning.

## DISPOSAL

Packaging: The packaging is made exclusively of paper/cardboard. It can therefore be disposed as wastepaper.

Product: The metal components can be disposed of via the scrap metal cycle. Electrical components must be disposed of as electronic waste according to the manufacturer's instructions.

All disposal operations are subject to current country-specific guidelines, regulations and laws.