

MANTO®

G3 Lifting Pin

Original Operating Instructions



HÜNNEBECK 

BY BRAND SAFWAY

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1 General information

1.1 Product features

Single or stacked MANTO G3 and G3 M formwork elements can be transported in the horizontal position using 4no. MANTO G3 Lifting Pins. Stacks of up to 5no. MANTO G3 Giant Panels or 8no. MANTO G3 panels can be moved.

Single MANTO G3 Inner Corners 35 can be transported in the horizontal position using 2no. MANTO G3 Lifting Pins.

The Safe Working Load (SWL) of the MANTO G3 Lifting Pin is 550 kg.

1.2 Intended use

The MANTO G3 Lifting Pin is a lifting accessory. It is used only to transport single or stacked MANTO G3 and G3 M formwork elements as well as single MANTO G3 Inner Corners 35 in horizontal position by crane.

2 General information

These Original Operating Instructions describe how to safely use the MANTO G3 Lifting Pin (code:608295).

These Operating Instructions are created to support effective working processes on site when using the MANTO G3 Lifting Pin, therefore carefully read these Operating Instructions before using the MANTO G3 Lifting Pin, always keep it at hand and archive it for future reference

2.1 Safety instructions

It is the responsibility of the site Management/Supervisors to ensure that all operatives using the MANTO G3 Lifting Pin have been made aware of this document and that they understand the drawings (if supplied) and the function of the various components. The Contractor is also responsible for drawing up a comprehensive risk assessment and a set of installation instructions.

Risk assessment

The Contractor is responsible for the compilation, documentation, implementation, and revision of a risk assessment for each construction site. His/her employees are obliged to implement the resulting measures in accordance with all legal requirements.

Operating Instructions

The Operating Instructions are an integral component of the use of the MANTO G3 Lifting Pin and are a part of the installation instructions. They comprise safety guidelines, details of standard configurations and intended use as well as the system's description.

The functional instructions (standard configuration) contained in the Operating Instructions are to be complied with as stated. Enhancements, deviations, or changes represent a risk and therefore require separate verification with the help of a risk assessment or a set of instructions which comply with the relevant laws, standards, and safety regulations. The same also applies in those cases where components are provided by the Contractor.

Availability of the Operating Instructions

The Contractor has to ensure that the Operating Instructions provided by the manufacturer or supplier are available at the place of use. Site personnel are to be informed of this before use and/or assembly takes place and that they are available at all times.

Detailed assembly

The method of erection/dismantling detailed is intended to be used as a general guide to inform the user about the product's details to enable safe use. It must not be used as a substitute for a contractor's specific risk assessment and method statement, and all relevant health and safety regulations must be adhered to.

Due to the variety of possible configurations of temporary work systems, the method of erection or parts of it may differ from that shown. Additionally, alternative methods of erection may be preferred or developed in which case it is imperative that all relevant health and safety legislation is adhered to.

Adverse wind and temperature conditions

The Customer is responsible for monitoring the weather forecast/wind conditions and take the required preventive measures. This includes but is not limited to installation of additional safety measures.

2.2 Method statement guidelines

Hünnebeck can provide further guidance and on-site assistance on any issues contained in this document that are not clear. Further information can be found in the product's data sheets. IF IN DOUBT, ASK.

Design Risk Assessment

Where relevant site-specific design schemes are produced, they will generally be to a recognised standard arrangement otherwise calculations will be done to verify the design.

The Design Risk Assessment is an integral part of Hünnebeck's design process. The designer will assess the hazards and risks associated with erection, use and dismantling of the temporary works at an early stage of the design process. Hünnebeck will communicate where risks to health and safety remain by including a „Residual Risk Note“ on the drawing. This note will be clearly visible and marked by the familiar black exclamation mark on a yellow triangle. The statement will be brief but clear to enable appropriate action by a competent contractor.

Hünnebeck draws attention to the following Health and Safety legislation:

- The Construction (Health, Safety and Welfare) Regulations 1996 (CHSW Regs);
- Construction (Design and Management) Regulations 2015 (CDM Regs);
- Lifting Operations and Lifting Equipment Regulations 1998 (LOLER);

- Work at Height Regulations 2005 (WaH Regs);
- Manual Handling Operations Regulations 1992 (MHO Regs).
- The Personal Protective Equipment at Work Regulations 1992 (PPE Regs)

Other local regulations may be relevant and must always be considered.

Work at Height Regulations - Hierarchy of Controls Avoiding Work at Height

Work at height can be reduced/eliminated by considering the method of assembly and use:

- Walkways that are designed to be re-used reduce the amount of time and effort dismantling and re-erecting;
- Walkways that can be pre-assembled on the ground and then raised by crane to an elevated position will remove some of the work at height;
- Installing completed walkways when the walkway is on the ground will remove work at height associated with the construction later on.

Preventing Falls - The use of guardrails and other collective measures

The use of PPE/Safety Harnesses.

Suitable PPE MUST be used at all times during assembly and dismantling of this equipment. Lanyards MUST always be secured to a suitable part of the structure. Always consider the attachment level and deployment (extension) of the lanyard when under load.

2.3 Equipment information

Material check

Material deliveries are to be checked on arrival at the construction site/place of destination, as well as before each use, to ensure it's in serviceable condition and functions correctly. Changes to the material are not permitted.

On-site preparations

The Contractor must ensure the appropriate environment and conditions for storage and the particular application of the components and/or systems supplied.

Storage and transportation

The special requirements of the material regarding storage and transportation procedures must be complied with. The material is supplied either as individual components and/or as pre-assembled parts.

This applies not only to and from the site but also to the movement of individual components and/or pre-assembled parts on the construction site/ place of use.

Lifting

When applicable, the lifting requirements of the individual components and/or pre-assembled parts must be followed.

Genuine components

The information provided assumes that any product combinations will be between genuine Hünnebeck products or products supplied by Hünnebeck unless otherwise stated.

Combining components from different manufacturers carries certain risks. They are to be individually verified and a separate set of instructions for the installation of the equipment may be required.

Any unauthorised use in relation to third party products could give rise to a risk of collapse, damage, injury, or death.

Spare parts and repairs

Only original components may be used as spare parts. Repairs are to be carried out by the manufacturer or by authorised facilities only.

3 Document information

Representations

The representations shown in the assembly instructions are in part, situations of assembly and not always complete in terms of safety considerations. The safety installations which have possibly not been included in these representations must be available and must be in accordance with the latest regulations. Overviews and diagrams are for illustrative purposes only and whilst we endeavour to ensure accuracy, we are not responsible for omissions or errors.

Safety symbols

Individual safety symbols are to be complied with. Examples:

DANGER

Danger!

DANGER indicates a hazardous situation that, if not avoided, will cause death or serious injury.

WARNING

Warning!

WARNING indicates a hazardous situation that, if not avoided, can cause death or serious injury.

CAUTION

Caution!

CAUTION indicates a hazardous situation that, if not avoided, can cause minor or moderate injury.

NOTICE

Notice!

NOTICE indicates a hazardous situation that, if not avoided, can cause property damage.



This note indicates that an additional check, visual or otherwise, is required.

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This note shares practical experience with the user, e.g. how to perform a task more easily or quickly.



This note draws the user's attention to particularly important information, e.g. that a pre-requisite must be fulfilled.



This symbol indicates that additional information from other documents is required. These documents could be user guides or operating instructions for other products.

Instructions

Instructions are always identified with the word Step, e.g.

Step 1 Insert the locking bolt into the hole from the outside.

Step 2 Secure the pin with the spring cotter pin.

Brand names

The following brand names are the property of Hünnebeck. The symbol indicating registered trademark is omitted throughout the document:

- Hünnebeck®
- MANTO®

Other relevant documents

This Operating Instruction should be read in conjunction with the following documents:

- MANTO User Guide

The components shown in these Operating Instruction should be read in conjunction with the associated User Guide(s) and all the safety and regulatory information contained in the mentioned User Guides is applicable. These components and their associated systems must be designed, handled, transported, assembled/disassembled, and maintained by competent personnel.

Please read this Original Operating Instructions carefully and keep it together with the associated User Guide.

User Guide compliance

Hünnebeck will not be liable for any damage to property, personal injury or any losses caused by failure to follow the instructions contained in this guide. It remains the responsibility of the Customer to comply with the applicable legislation.

3.1 Disclaimer

This document provides an overview of the instructions for assembly and use of the MANTO G3 Lifting Pin (code:608295). More specific component data sheets are available upon request for some product lines. Hünnebeck reviews and updates its product guidance from time to time. Due to continuous development, it is important that only current documents are used.

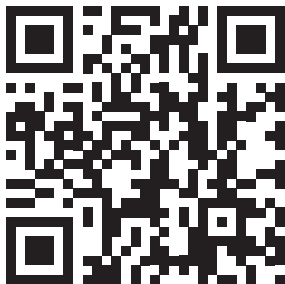
Hünnebeck reserves the right to alter or amend, without notice, the design and/or specifications of products in the interests of improvement or when required to comply with new regulations, other safety guidances or industry advancements.

Hünnebeck also issues safety notes on its products or packaging where required. These notices may affect the manner in which products are used and should therefore be adhered to. The most recent published notice should prevail.

All information in this guide is correct at the time of going to press and/or other publication media.

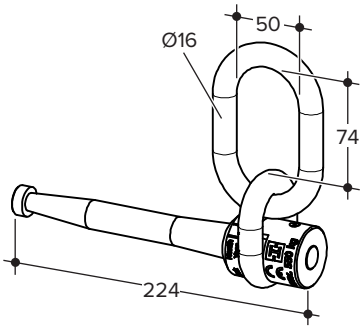
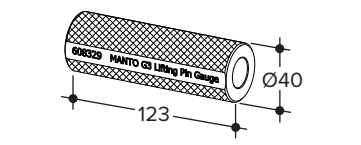
For the latest version of this document and other User Guides please visit:

<https://huennebeck.com/literature>



Lyndon SGB, Hünnebeck, Aluma and Brand are trading names of BrandSafway.

4 Components

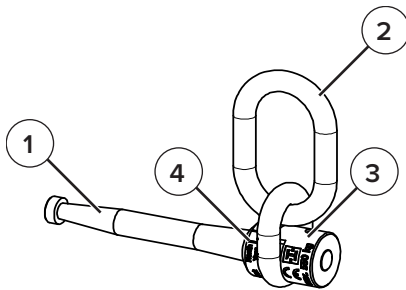
	Component	Code	Weight [kg]
	MANTO G3 Lifting Pin	608295	1.61
	MANTO G3 Lifting Pin Gauge See page 27.	608329	0.90

5 Applications

5.1 The MANTO G3 Lifting Pin

5.1.1 Intended use

The MANTO G3 Lifting Pin (code:608295) is used as a lifting accessory. It is used only to transport single or stacked MANTO G3 and G3 M formwork elements as well as single MANTO G3 Inner Corners 35 in horizontal position by crane.



- 1 Pin to be inserted into MANTO panel
- 2 Lifting eye
- 3 Nameplate
- 4 Inspection tag

5.1.2 Additional information

When using the MANTO G3 Lifting Pin the formwork elements have to be stacked flush and secured with straps to prevent slippage. The stacked formwork elements have to all be the same size. Stacked MANTO G3 and G3 M formwork elements of different sizes as well as stacked MANTO G3 Inner Corners 35 may not be transported.

There must always be 4no. MANTO G3 Lifting Pins inserted into the respective positions in the formwork elements when transporting MANTO G3 and G3 M formwork elements.

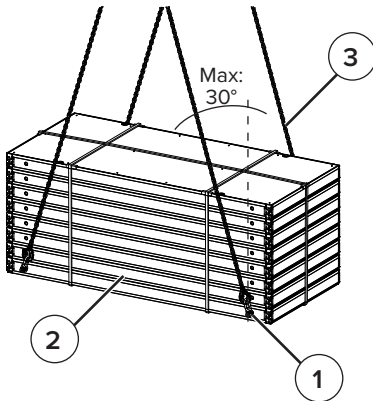
There must always be 2no. MANTO G3 Lifting Pins inserted into the respective positions in the formwork elements when transporting MANTO G3 Inner Corners 35.

Transporting other MANTO formwork elements or other loads is not permitted.

The lifespan of the MANTO G3 Lifting Pin is ten years. After ten years, it may be used only after consulting and receiving approval from the manufacturer.

Typical applications

The typical application of the MANTO G3 Lifting Pin can be seen below.

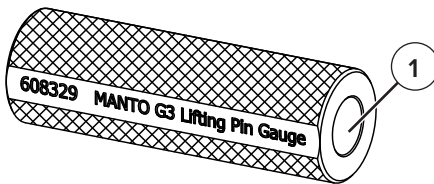


- 1 MANTO G3 Lifting Pin (code:608295)
- 2 MANTO Panels
- 3 Crane slings

5.2 The MANTO G3 Lifting Pin Gauge

5.2.1 Intended use

The MANTO G3 Lifting Pin Gauge (code:608329) is a check device for the MANTO G3 Lifting Pin. It can be used to check the usability of the MANTO G3 Lifting Pin resulting from deflection.



- 1 Check opening

6 Installation/operation

6.1 Safety

1. The contractor should assign only persons properly trained and familiar with the required tasks as described in the risk assessment and the operating instructions to use the lifting accessories. The operating instructions must be readily available at all times!
2. Do not stand or walk under suspended loads!
3. Do not endanger persons within the swivel range of the crane!
4. Wear appropriate personal protective equipment! Protective gloves that comply with EN 388, minimum performance level 1. Safety footwear S3 that complies with EN ISO 20345 (EN 345) and an industrial helmet that complies with EN 397.
5. Use the MANTO G3 Lifting Pin (code:608295) only with Hünnebeck MANTO G3 and G3 M panels and with MANTO G3 Inner Corners 35. Do not use with products made by other manufacturers!
6. Lift only stacks of formwork elements that are all the same size!
7. Never lift stacked MANTO G3 Inner Corners 35 with the MANTO G3 Lifting Pin.
8. Always use 4no. MANTO G3 Lifting Pins (code:608295) to transport MANTO G3 panels.
9. Always use 2no. MANTO G3 Lifting Pins to transport MANTO G3 Inner Corners 35.
10. Never grease or oil the MANTO G3 Lifting Pin!
11. Verify that the MANTO G3 Lifting Pin is inserted all the way into the corresponding hole in the formwork element!
12. Ensure that the MANTO G3 Lifting Pin turns easily in the hole in the formwork element.
13. Do not impose on the MANTO G3 Lifting Pin weight that exceeds the SWL of 550 kg! Never transport more than 5no. MANTO G3 Giant Panels or 8no. MANTO panels or 1no. MANTO G3 Inner Corner 35 at one time!
14. Attach the MANTO G3 Lifting Pin only to formwork elements that are in serviceable condition!

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15. The points at which the MANTO G3 Lifting Pin are attached to the formwork elements as well as the MANTO G3 Lifting Pin themselves must be free of dirt and concrete and be undamaged!
16. Do not attach guiding ropes to the MANTO G3 Lifting Pin!
17. Do not lift the formwork elements until the slinger has indicated that it is safe to do so!
18. Do not hoist formwork elements with loose items on them.
19. Lift only panels that are positioned horizontally! Hoist only panels that are lying on flat ground. Never lift sloping panels!
20. Never hoist vertical panels!
21. Do not use the MANTO G3 Lifting Pin to turn over formwork elements!
22. Lift, transport and set down loads in a manner that prevents them from unintentionally tipping over, falling apart, or slipping!
23. When setting down formwork elements and then lifting them again, verify that all 4no. or in case of using it for MANTO G3 Inner Corners 35 2no. MANTO G3 Lifting Pins are seated properly!
24. Do not move loads when the wind speed is greater than 15 m/s or 54 km/h (Bft 7)! The load must be able to be transported safely!
25. Lift, transport and set down loads such that the MANTO G3 Lifting Pin is not damaged.
26. Use only a 4-strand sling attached to the integrated lifting eye on the MANTO G3 Lifting Pin to hoist it!
27. The sling hook must move freely in the MANTO G3 Lifting Pin lifting eye!
28. The angle of the slings on the crane hook may not exceed 30° from the vertical. Do not knot steel wires and steel chains. Untangle twisted chains before attaching them!
29. Visually inspect the MANTO G3 Lifting Pins before each use and during operation, checking for faults such as deformation, cracks, breaks, wear, incomplete labelling, etc.
30. Store the MANTO G3 Lifting Pins such that they are protected from weather conditions and aggressive substances.
31. Do not use MANTO G3 Lifting Pin with deficiencies that could in any way affect safety!

32. Repairs to the MANTO G3 Lifting Pin may be performed only by the manufacturer. Use only original spare parts!
33. Do not use the MANTO G3 Lifting Pin until it has been approved by a qualified person and no deficiencies have been found!
34. Have MANTO G3 Lifting Pins inspected by a qualified person at least once a year! Check the inspection date before each use!
35. When damage or other extraordinary circumstances that could affect the SWL have occurred, the MANTO G3 Lifting Pin has to be subjected to an additional inspection by a qualified person!

6.2 Before use

CAUTION

Risk of cuts on sharp edges!

The MANTO G3 Lifting Pin can develop sharp edges over time.
Wear gloves!

Visually inspect the MANTO G3 Lifting Pin before each use! Never use the MANTO G3 Lifting Pin when any damage or other deficiencies are apparent!

Check the inspection tag on the MANTO G3 Lifting Pin before each use!



The MANTO G3 Lifting Pin may not be used if the inspection tag is missing or illegible. The manufacturer or a qualified person must then inspect the equipment and issue a new inspection tag. This applies only to Hünnebeck rental equipment pursuant to inspection tags as specified by DGUV (German statutory accident insurance regulations) 100-500*.

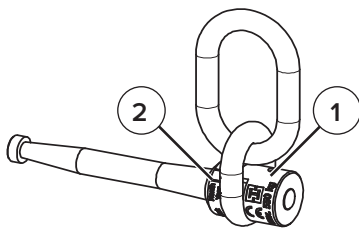
The German ordinance on industrial safety and health (BetrSichV) applies to the use of equipment that is not rented.

Use the MANTO G3 Lifting Pin only if the most recent inspection was within the last year!



Comply with prescribed area of application!

* Inspection tag as specified by DGUV applies!



- 1 Nameplate
- 2 Inspection tag

6.3 Attaching the MANTO G3 Lifting Pin

⚠ CAUTION

Risk of injury!

There is a risk of pinching hands when inserting the MANTO G3 Lifting Pin.

The MANTO G3 Lifting Pin can develop sharp edges over time.
Wear gloves!

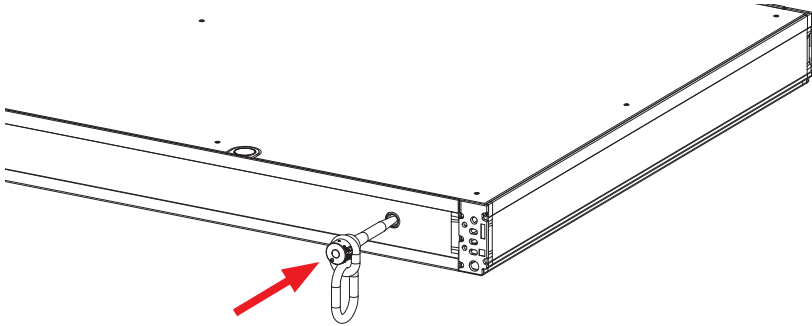
Check the orientation of the panel!



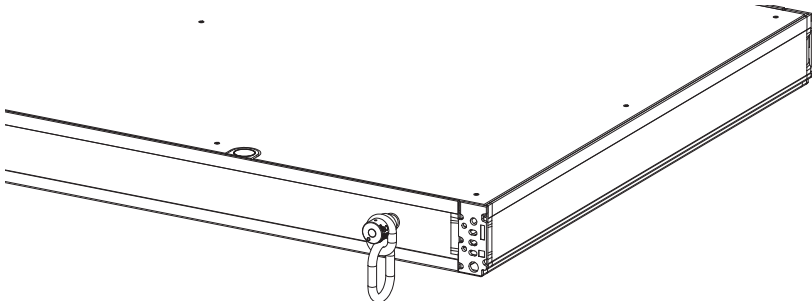
Hoist only horizontally orientated panels that are lying on flat ground.
Never lift sloping panels.

6.3.1 Attaching to MANTO G3 and G3 M panels

Step 1 Insert the first MANTO G3 Lifting Pin into the side hole in the edge profile of the MANTO panel.



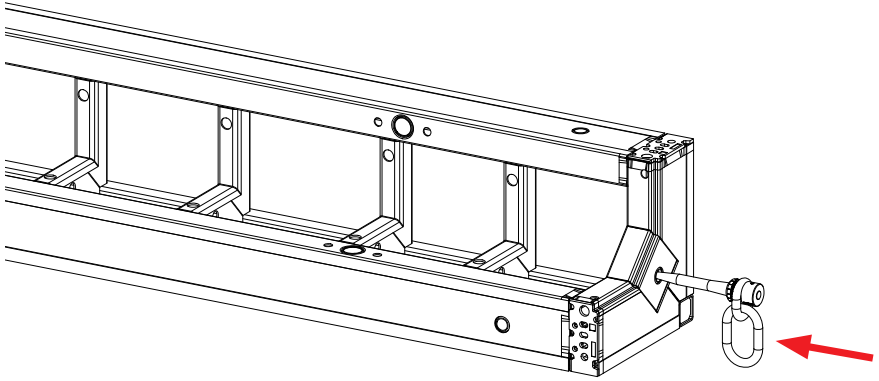
Step 2 Slide the MANTO G3 Lifting Pin all the way in.



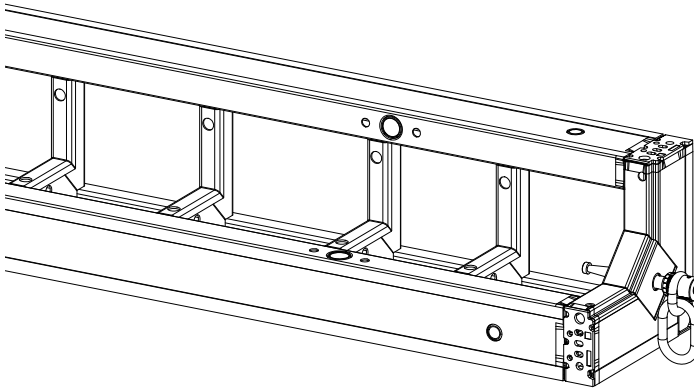
Step 3 Insert the remaining 3no. MANTO G3 Lifting Pins into the other holes in the same way.

6.3.2 Attaching to MANTO G3 Inner Corners 35

Step 1 Insert the first MANTO G3 Lifting Pin into the hole in the front profile of the MANTO G3 Inside Corner 35.



Step 2 Slide the MANTO G3 Lifting Pin all the way in.



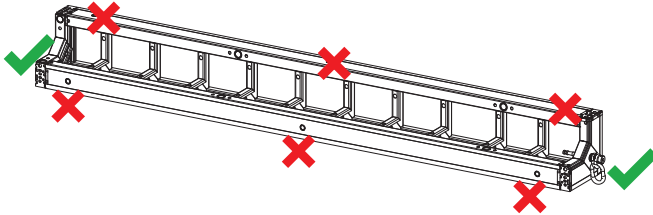
Step 3 Attach the other MANTO G3 Lifting Pin on the opposite side in the same way.

⚠ CAUTION

Hazard posed by falling/slipping loads!

If the MANTO G3 Lifting Pin is inserted in the wrong position, it can slip out of the profile.

Use only the holes in the front profiles of the MANTO G3 Inner Corner 35 described here!



6.4 Attaching the MANTO G3 Lifting Pin to the crane

6.4.1 Attaching the MANTO G3 and G3 M panels to the crane

⚠ WARNING

Hazard posed by falling/slipping loads!

Uncontrolled motion or falling/slipping loads can cause severe injury or death!

Always use 4no. MANTO G3 Lifting Pins to transport MANTO G3 panels.

Always secure stacked panels with straps placed lengthwise as well as crosswise.

When transporting stacked panels, always attach the MANTO G3 Lifting Pin to the bottom panel.

Do not hoist the load when there are persons in the danger areas!

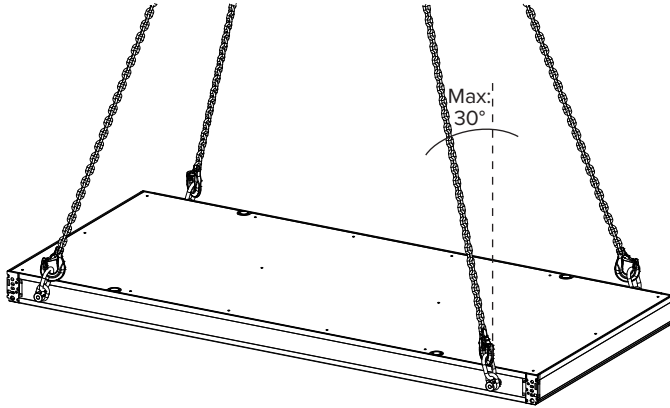
Wait for permission from the slinger before lifting!



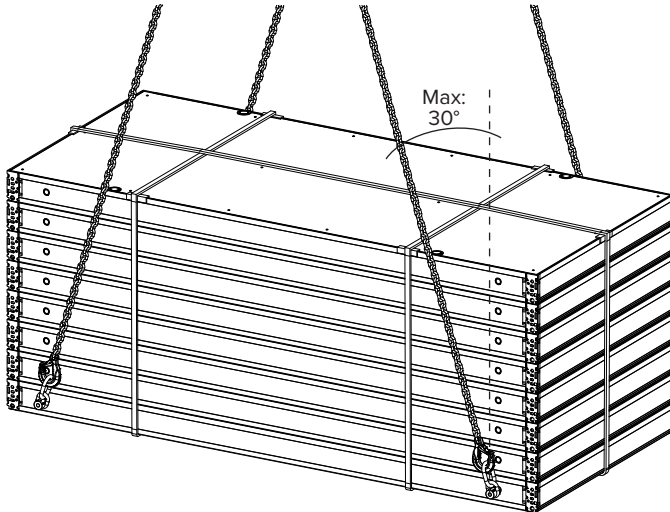
Use only slings that have been inspected and found to be suitable! The angle of the slings on the crane hook may not exceed 30° to the vertical!

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- Step 1** Attach all 4no. MANTO G3 Lifting Pins to the crane hook using a 4-strand suspension. Do not exceed the maximum angle of the slings on the crane hook (30°)!



Before hoisting, verify that the MANTO G3 Lifting Pin is inserted all the way into the corresponding hole in the formwork element.



6.4.2 Attaching the MANTO G3 Inner Corners 35 to the crane

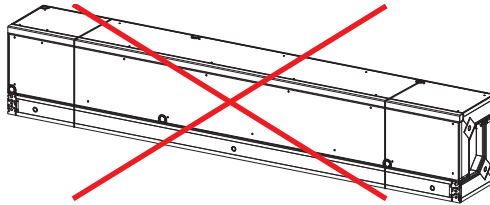
WARNING

Hazard posed by falling/slipping loads!

Uncontrolled motion or falling/slipping loads can cause severe injury or death!

Always use 2no. MANTO G3 Lifting Pins to transport MANTO G3 Inner Corners 35.

Never move stacked MANTO G3 Inner Corners 35 with the MANTO G3 Lifting Pin!



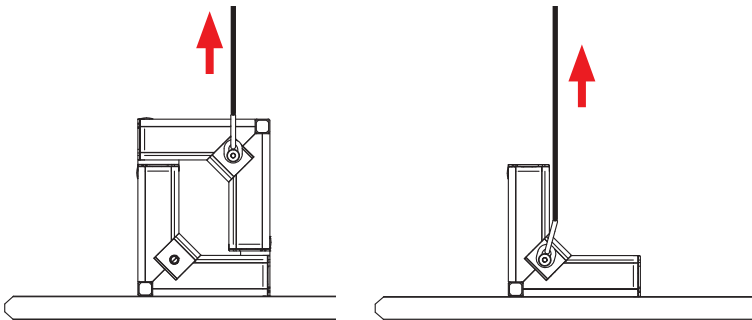
Do not hoist the load when there are persons in the danger areas!

Wait for permission from the slinger before lifting!



Use only slings that have been inspected and found to be suitable! The angle of the slings on the crane hook may not exceed 30° to the vertical!

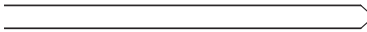
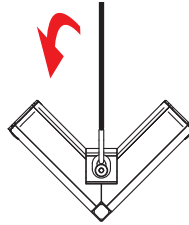
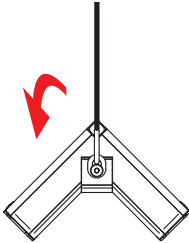
Step 1 Attach both MANTO G3 Lifting Pins to the crane hook using a 2-strand suspension. Do not exceed the maximum angle of the slings on the crane hook (30°)!



Before hoisting, verify that the MANTO G3 Lifting Pin is inserted all the way into the corresponding hole in the formwork element.

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Step 2 Slowly tense the crane suspension. The MANTO G3 Inside Corner turns around the MANTO G3 Lifting Pin until it is suspended from the crane in its final position.

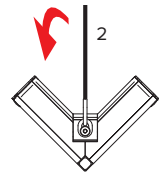
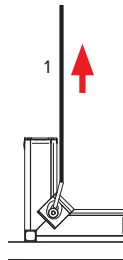
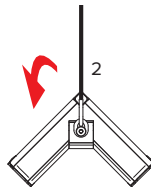
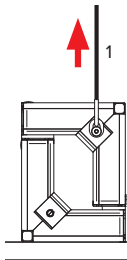


CAUTION

Risk of collision!

There is a risk of collision with other material and/or personnel when lifting the MANTO G3 Inside Corners 35.

The MANTO G3 Inside Corner 35 turns around the MANTO G3 Lifting Pin. Step back before lifting the MANTO G3 Inside Corner 35 of the formwork element!



6.5 Detaching the MANTO G3 Lifting Pin

Step 1 Pull the MANTO G3 Lifting Pin out of the formwork element.

Step 2 Detach the sling from the MANTO G3 Lifting Pin.

7 Technical data

Length:	231 mm
Width:	62 mm
Height:	170 mm
Weight:	1.61 kg
Safe Working Load (SWL):	550 kg
Temperature range:	-20 – +100°C
Maximum lifespan:	10 years

8 Inspection instructions

CAUTION

Risk of cuts on sharp edges!

The MANTO G3 Lifting Pin (code:608295) can develop sharp edges over time.

Wear gloves!

8.1 Area of application

The German ordinance on industrial safety and health (BetrSichV), § 3 sec. 3 and § 10, applies to the type, scope, and intervals of mandatory inspections as well as to the requirements pertaining to the persons tasked with performing the inspections.

The test certificate items stated here serve as a guideline for inspecting equipment before it is used for the first time and for regular inspection of the MANTO G3 Lifting Pin.

8.2 Purpose

Inspecting the MANTO G3 Lifting Pin is intended to ensure operating and functional safety of the equipment. The inspections and tests are performed to systematically detect and remedy faults relevant to safety.

Inspections should be performed at regular intervals, occurring at least once a year. If the operating conditions require otherwise, inspections can be performed more frequently. This applies e.g. when the equipment is used very frequently, when there is excessive wear or under special operating conditions such as in a corrosive environment.

8.3 Responsibility

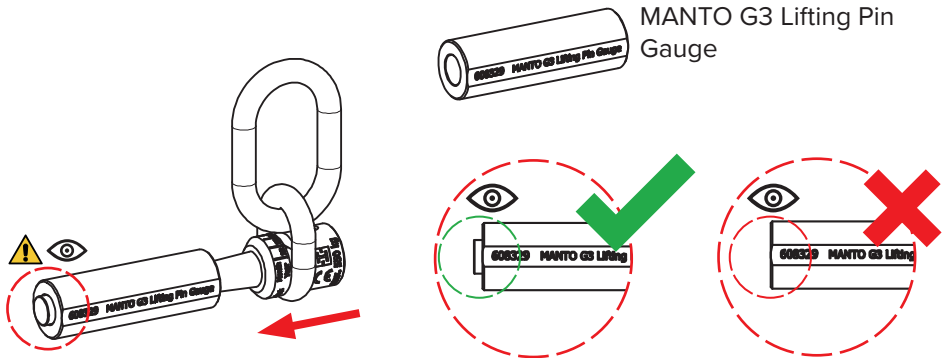
The user is responsible for scheduling regular safety inspections of the MANTO G3 Lifting Pin. Safety inspections of this equipment should be performed only by qualified persons (qualified person as specified by DGUV (German statutory accident insurance regulations) regulation 54, § 23).

8.4 Using the MANTO G3 Lifting Pin Gauge

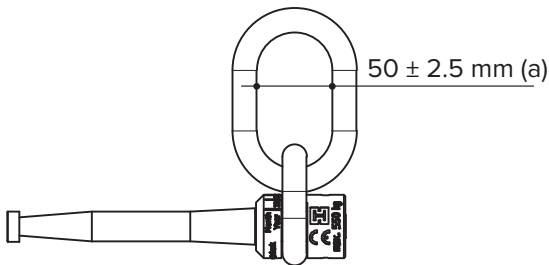
Use the MANTO G3 Lifting Pin Gauge (code:608329) to check the maximum permitted deflection of the MANTO G3 Lifting Pin.

Step 1 Insert the MANTO G3 Lifting Pin all the way into the Checking Gauge.

Step 2 If the MANTO G3 Lifting Pin can be slid so far into the MANTO G3 Lifting Pin Gauge that it protrudes from the other side, the MANTO G3 Lifting Pin is intact.
If the MANTO G3 Lifting Pin cannot be slid so far into the MANTO G3 Lifting Pin Gauge that it protrudes from the other side, it is bent and may no longer be used.



8.5 Check dimensions



9 Test certificate for the MANTO G3 Lifting Pin

Part code: 608295

Serial number:

Year of manufacture:

No bending, external cracks, or damage detectable:

No corrosion damage that could affect functioning or safety:

Inspection with Checking Gauge passed:

Regular testing documented by inspection tag on component, with month/year:

inspection tag and other markings legible:

Data bag containing operating instructions

Clear opening of lifting eye (dimension a) is 50 ± 2.5 mm:

Repairs may be made only by the manufacturer, and only original spare parts may be used!

The German trade association dictates only visual inspection.

Date

Inspector

10 Maintenance, repair, storage

The MANTO G3 Lifting Pin (code:608295) requires the following maintenance:

Time	Task
Before every use	Remove any dirt

If a repair is required, contact Hünnebeck. Only Hünnebeck or an authorised agent may repair any equipment!

When MANTO G3 Lifting Pins are not in use, store them in lattice boxes, in a dry place protected from the weather.

11 Disposal

Components that are destroyed or are beyond repair must be disposed of properly. The components should be handed over to a disposal specialist certified according to local regulations. The components described in this manual and the materials are listed here.

Component	Material
MANTO G3 Lifting Pin (code:608295)	Steel
MANTO G3 Lifting Pin Gauge (code:608329)	Steel

Always ensure that destroyed or damaged components are not used again!

12 Certifications

EU Declaration of conformity

**Manufacturer**

Hünnebeck GmbH
Rehecke 80
D-40885 Ratingen
+49 2102 937-1
info_de@huennebeck.com
www.huennebeck.com

hereby declares that the following product based on its method of construction and its design introduced by HÜNNEBECK fully complies with the relevant regulations of this directive, as well as the standards and technical specifications listed hereafter. Any modifications introduced to the product without our explicit approval shall make this declaration null and void.

Product name

MANTO G3 Lifting Pin

Product code

608295

Function

Lifting accessory for crane transport of single or stacked MANTO G3/G3 M formwork elements.

Guidelines

- 2006/42/EC (Machinery Directive)

Harmonized standards

- DIN EN 1677-1:2009-03 and 1677-4:2009-03
- DIN EN ISO 12100:2011-03
- DIN EN 13001-1:2015-06
- DIN EN 13001-2:2022-10
- DIN EN 13001-3-1:2023-06
- DIN EN 13155:2022-03

Ratingen, 17.01.2024
Hünnebeck GmbH

Signed by:

ppa. Mario Ariyoshi
Technical Director

i. A. Karl Lojewski
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Keep for later use!