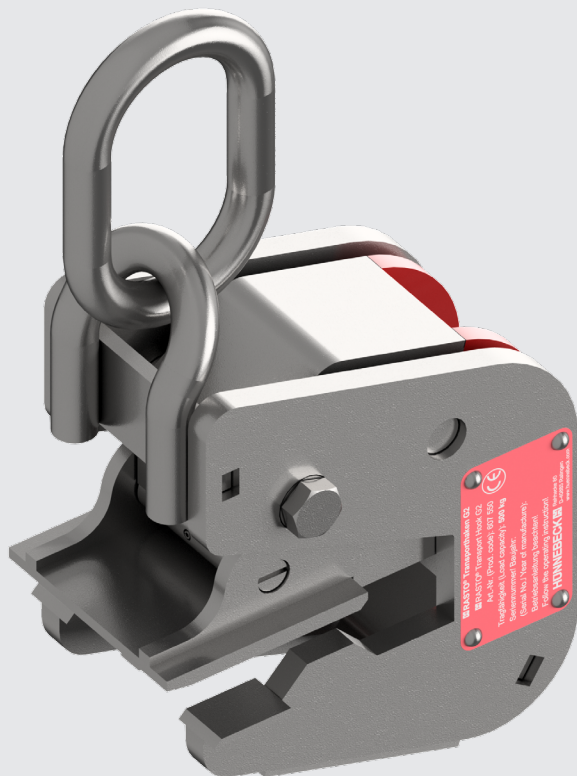


## Transport Hook G2

### Operating Instructions



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# 1 General information

## 1.1 About these instructions

These original operating instructions describe how to safely operate the RASTO Transport Hook G2 (code:607550).

## 1.2 Product description

The RASTO Transport Hook G2 is used to move vertically or horizontally aligned RASTO/TAKKO formwork elements by crane.

The Safe Working Load (SWL) of the RASTO Transport Hook G2 is 500 kg.

## 1.3 Intended use

The RASTO Transport Hook G2 is a lifting accessory. It is intended to be used only to erect and transport by crane single or connected RASTO/TAKKO formwork elements. Connected formwork elements have to be securely attached to one another as described in the RASTO user guide.

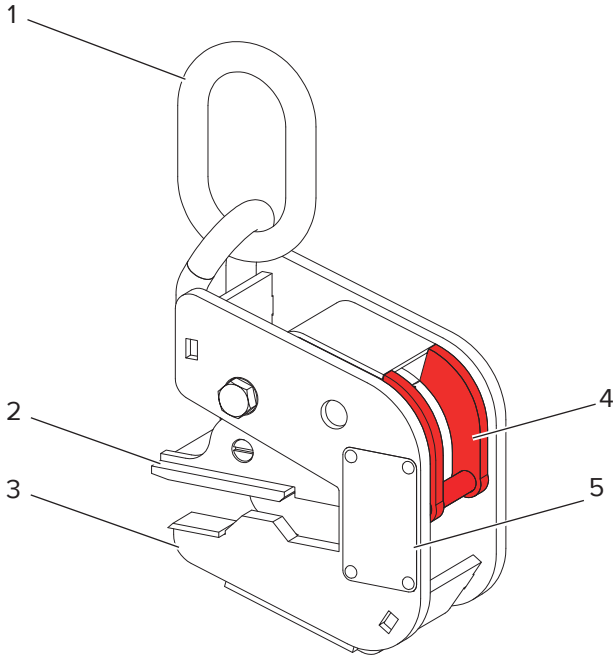
Only 1no. RASTO Transport Hook G2 is required to move single RASTO/TAKKO formwork elements. The Transport Hooks have to be used in pairs when moving panel assemblies. The Transport Hooks have to be attached to both sides of the panel joint or to a vertical or horizontal profile on the panel.

## 1.4 Other relevant documents

These operating instructions focus particularly on safe operation of the RASTO Transport Hook G2. Please also observe and comply with the information and instructions contained in the following documents:

- The user guide for the RASTO/TAKKO formwork system.

## 1.5 Overview



- 1 Suspension link for transporting by crane
- 2 Lock to secure the Transport Hook to the edge profile of the formwork element
- 3 Housing
- 4 Operating lever (marked red)
- 5 ID plate

## 2 Safety notes








1. The contractor may 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. Do not impose on the Transport Hook weight that exceeds the SWL!
6. Attach the Transport Hook only to formwork elements that are in serviceable condition!
7. Attach formwork elements to the hoisting equipment such that they are symmetrical to their centre of gravity!
8. Do not hoist formwork elements with loose items on them.
9. Refer to the user guide for the RASTO/TAKKO formwork system for information on assembly and transport of the formwork elements!
10. Before transporting stacked formwork elements, check all connectors and connections between the elements! Verify that the number of connectors is correct!
11. When lifting the formwork into place, secure the formwork elements to prevent uncontrolled motion!
12. The points at which the Transport Hooks are attached to the formwork elements have to be free of dirt and concrete and be undamaged!
13. Lift, transport and set down loads in a manner that prevents them from unintentionally tipping over, falling apart or slipping!
14. 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!
15. Lift, transport and set down loads such that the Transport Hook is not damaged.
16. Do not attach the crane hook directly to the suspension link on the Transport Hook! Use only suitable slings, e.g. a two-strand chain sling attached to the integrated suspension link on the Transport Hook to hoist it!
17. The sling hook must move freely in the Transport Hook suspension link!
18. The angle of the slings on the crane hook may not exceed 60°. Do not knot steel wires and steel chains. Untangle twisted chains before attaching them!

# Safety notes

19. Visually inspect the Transport Hooks before each use and during operation, checking for faults such as deformation, cracks, breaks, incomplete labelling, etc.
20. Store the Transport Hooks such that they are protected from weather conditions and aggressive substances.
21. The contractor is responsible for ensuring that a Transport Hook with defects that could in any way affect safety is not used!
22. The contractor is responsible for having repairs to Transport Hooks performed only by the manufacturer. Use only original spare parts!
23. The contractor must ensure that, before operation begins, the Transport Hook has been inspected by a qualified person and that no deficiencies have been found!
24. The contractor is responsible for having the Transport Hook inspected by a qualified person at least once a year! Check the inspection date before each use!
25. When damage or other extraordinary circumstances that could affect the SWL have occurred, the contractor is responsible for having the Transport Hook inspected by a qualified person!

## 2.1 Conventions in this user guide

### 2.1.1 Warnings and notes

 <b>DANGER</b>	<b>Danger!</b> Danger indicates a hazardous situation that, if not avoided, will cause death or serious injury.
 <b>WARNING</b>	<b>Warning!</b> WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
 <b>CAUTION</b>	<b>Caution!</b> Caution indicates a hazardous situation that, if not avoided, can cause minor or moderate injury.
<b>NOTE</b>	<b>Note!</b> Note indicates a hazard that can cause property damage.
	This note indicates that an additional inspection is required.
	This note shares practical experience with the user, e.g. how to perform a task more easily or quickly.
	This note indicates particularly important information, e.g. that a requirement has to 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.

### 2.1.2 Instructions

In this user guide instructions are always identified with the word **Step**, e.g.

**Step 1** Insert the locking bolt into the bore from the outside.

**Step 2** Secure the pin with the spring cotter pin.

## 3 Before use

Perform a functional check before every use. Also check the ID plate and inspection tag.

### 3.1 Functional check

Before every use of the Transport Hook, check the following:

- The operating lever moves easily and opens the lock.
- The Transport Hook hooks easily into the edge profile of the formwork element, without exerting force.
- The Transport Hook locks easily onto the edge profile of the formwork element.

If for whatever reason one or more of these operations cannot be performed as described here, the Transport Hook must be inspected and repaired by the manufacturer or an authorised agent.

### 3.2 Checking ID plate and inspection tag

Before every use of the Transport Hook, check that the ID plate and the inspection tag are in place and legible. If the ID plate or inspection tag is missing or illegible, the Transport Hook may not be used.

The Lifting Waler may be operated only if it has been inspected within the last year.



#### **ID plate missing or illegible!**

The Transport Hook may not be used if the ID plate is missing or illegible. The manufacturer or an authorised agent must then inspect the equipment and issue a new plate.



#### **Inspection tag missing!**

The Transport Hook 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 tag. This applies only to HÜNNEBECK rental equipment pursuant to test certification 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.

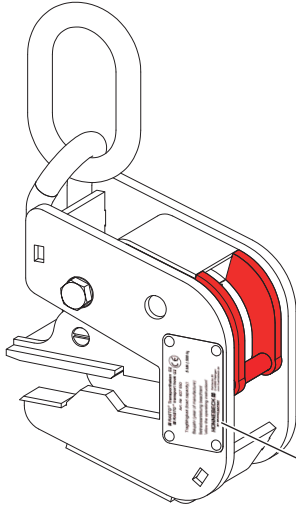


#### **Comply with prescribed area of application!**

\* Test certification as specified by DGUV applies!



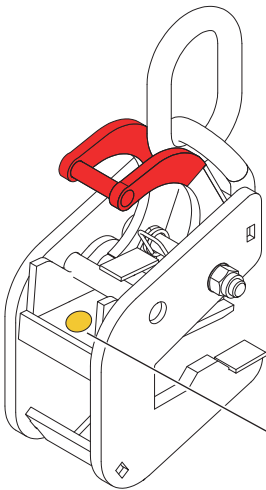
# RASTO Transport Hook G2



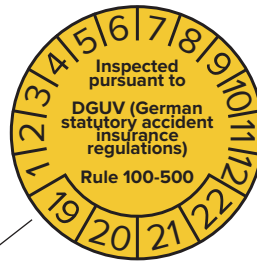
ID plate

 RASTO® Transporthaken G2  
 RASTO® Transport Hook G2  
Art.-Nr. (Prod. code): 607 550  
Tragfähigkeit (Load capacity): **500 kg**  
Seriennummer/ Baujahr:  
(Serial No./ Year of manufacture):  
Betriebsanleitung beachten!  
Follow the operating instruction!

**HÜNNEBECK**  Rehhecke 80  
D-40885 Ratingen  
[www.huennebeck.com](http://www.huennebeck.com)



Inspection tag



# Transport Hook mounting positions

## 4 Transport Hook mounting positions

The RASTO Transport Hook G2 can be attached to vertically and horizontally aligned RASTO/TAKKO and RASTO/TAKKO G2 Panels. The Transport Hook can also be attached to RASTO/TAKKO Inner Corners. When transporting panel assemblies, the Transport Hook has to be attached to each side of the panel point or to a vertical or horizontal profile. The following sections show the positions in which the Transport Hook can be attached.

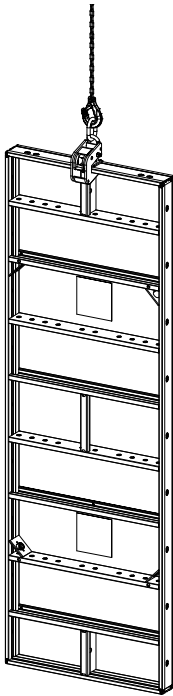
In most cases 2no. Transport Hooks are needed. The only time that only 1no. Transport Hook is needed is when single panels or Inner Corners are moved.



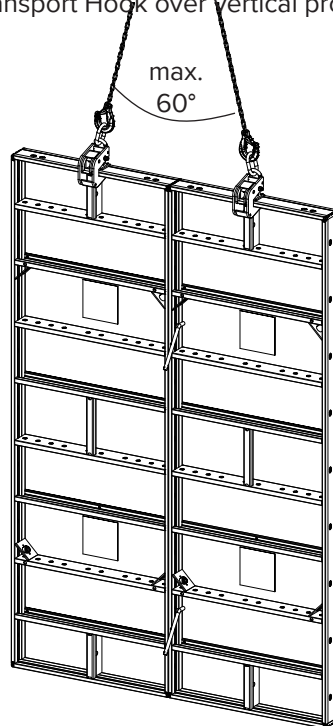
We recommend always using 2no. Transport Hooks to move RASTO XXL Panels.

### 4.1 On vertical RASTO G2 formwork elements

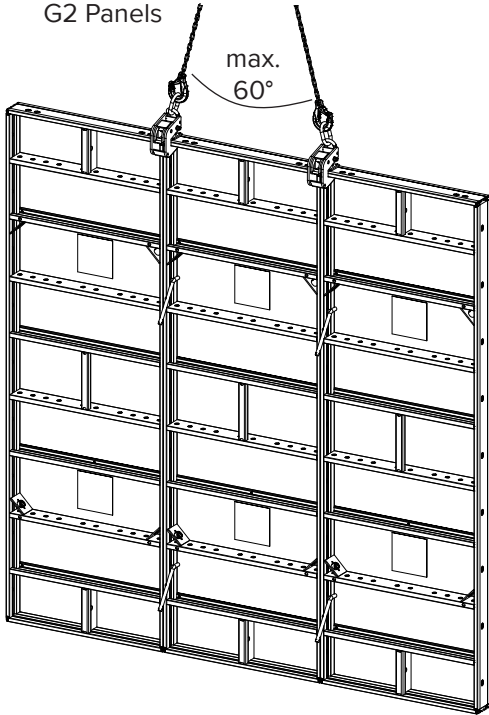
Single RASTO G2 Panel



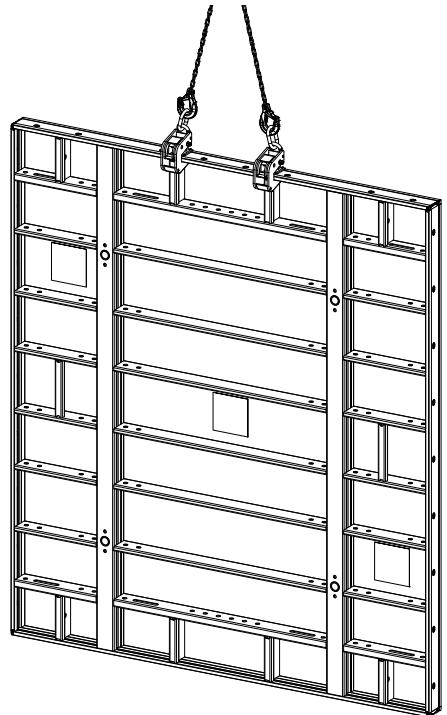
Panel assembly made of RASTO G2 Panels  
Transport Hook over vertical profiles



Panel assembly made of 3NO. RASTO G2 Panels



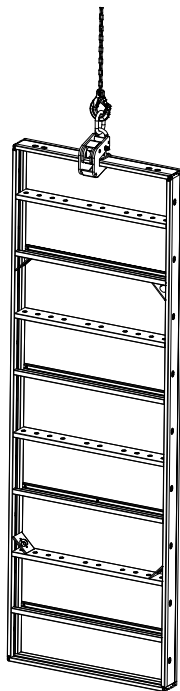
Single RASTO G2 XXL Panel



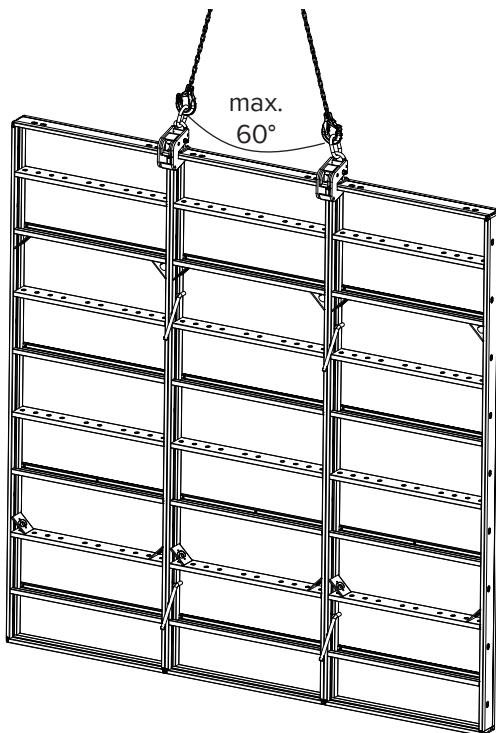
# Transport Hook mounting positions

## 4.2 On vertical RASTO G1 formwork elements

Single  
RASTO G1 Panel

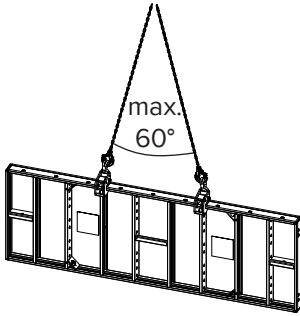


Panel assembly made of  
3no. RASTO G1 Panels

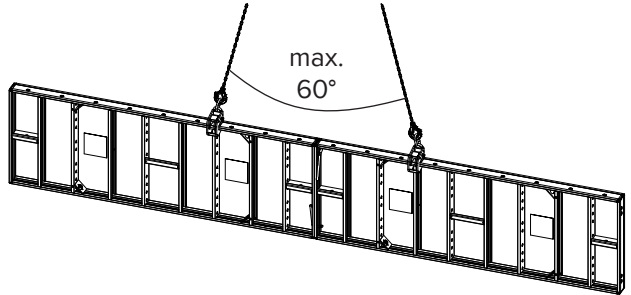


## 4.3 On horizontal RASTO formwork elements

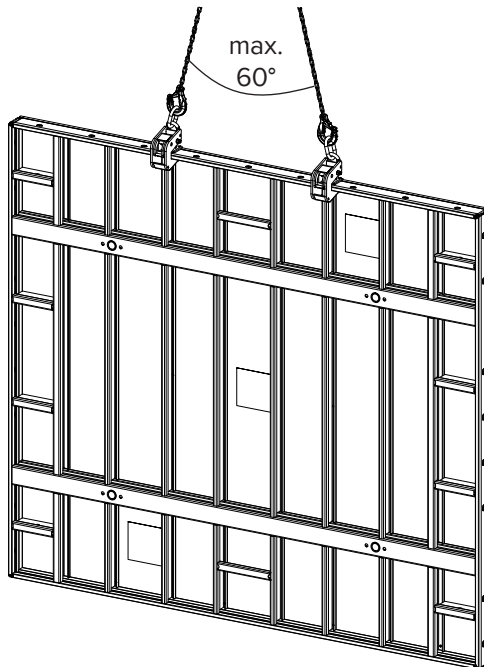
Single RASTO element



RASTO element assembly



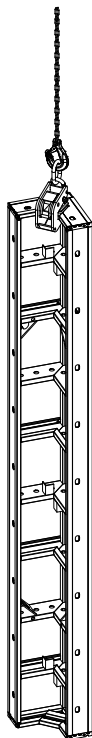
Single RASTO G2 XXL Panel



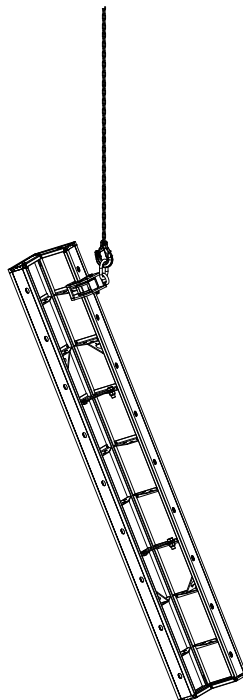
# Transport Hook mounting positions

## 4.4 On RASTO Inner Corners

Single RASTO G2  
Inner Corner

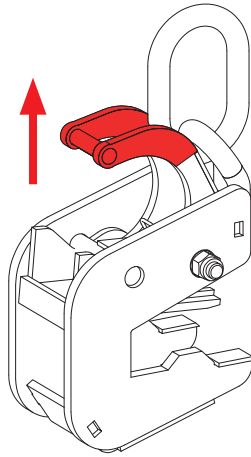


Single RASTO G1 Inner  
Corner

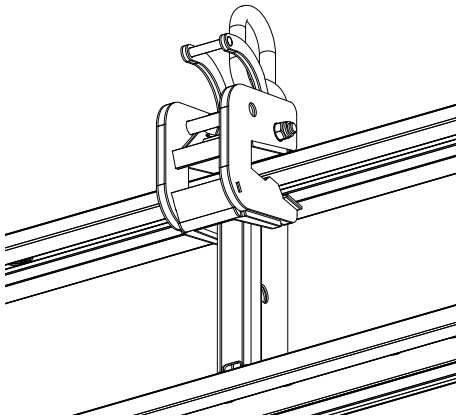


## 5 Attaching Transport Hook to formwork elements

- Step 1** Unlock the Transport Hook. Do this by pulling the operating lever (red) on the Transport Hook all the way up.

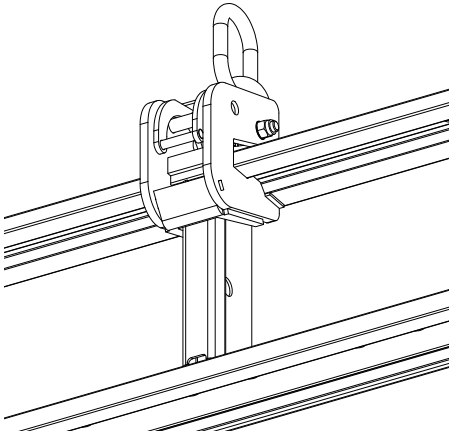


- Step 2** Place the jaw of the Transport Hook over the edge profile on the formwork element. Comply with the permitted mounting positions (Refer to page 4).

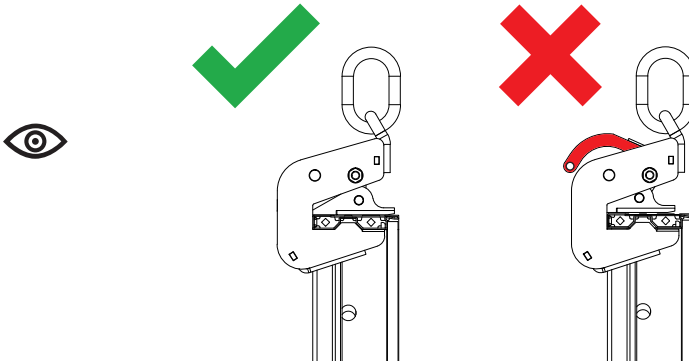


# Attaching Transport Hook to crane

**Step 3** Press the Transport Hook all the way onto the edge profile and then push down the lever.



Check that the lever (red) is pressed all the way down. The lever should not be visible from the side.



## 6 Attaching Transport Hook to crane



### **WARNING**

**Risk of serious injury from falling formwork elements!**

Do not attach the crane hook directly to the Transport Hook!

Always use a suitable sling, e.g. a two-strand chain sling!

**Step 1** Use suitable slings to attach the Transport Hook to the crane hook. Do not exceed the maximum angle of the slings on the crane hook (60°)!



## 7 Removing Transport Hook from formwork

Proceed as follows to remove the Transport Hook from the formwork.

**Step 1**      Unlock the Transport Hook as explained on page 15.

**Step 2**      Remove the Transport Hook from the formwork.

## 8 Technical data

Length:	173 mm
Width:	117 mm
Height:	315 mm
Weight:	5.93 kg
SWL:	500 kg

## 9 Inspection instructions

### 9.1 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 RASTO Transport Hook G2.

### 9.2 Purpose

Inspecting the Transport Hook 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.

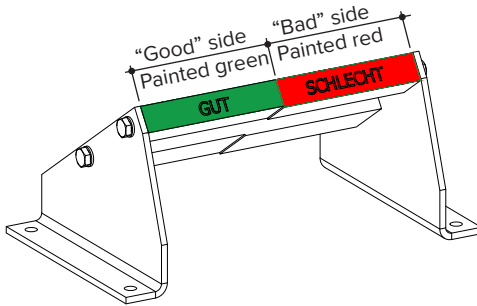
### 9.3 Responsibility

The user is responsible for scheduling regular safety inspections of the Transport Hook. 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).

# Inspection instructions

## 9.4 Checking with the Hook Template

The test bar on the Hook Template (code:607590) has two different sides:

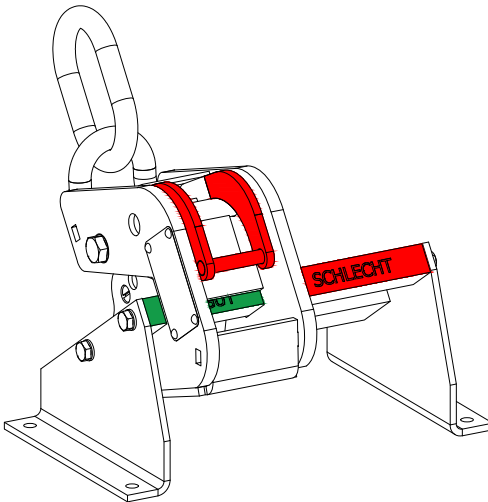


To properly test the RASTO Transport Hook G2, always attach it to each side.



The RASTO Hook Template can be screwed onto a sturdy base through the 4no. holes (Ø9 mm).

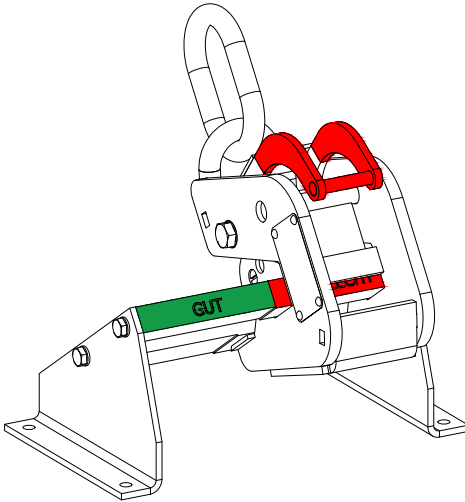
**Step 1** Open the operating lever and place the Transport Hook on the “good” side of the Hook Template. Then close the lever.



The Transport Hook passes the test if the operating lever can be closed properly on the “good” side.

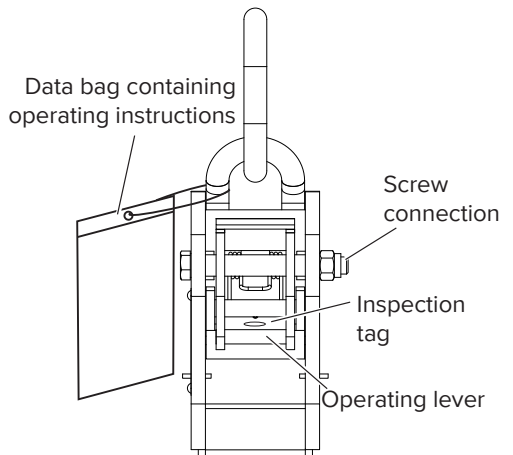
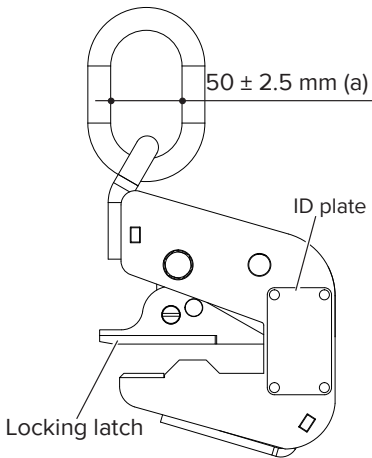
**Step 2**

Open the lever and place the Transport Hook on the “bad” side of the Hook Template; do not slide it over while still attached to the Hook Template. Then close the lever.



The Transport Hook passes the test if the operating lever cannot be closed properly on the “bad” side.

**9.5 Check dimensions**



# Test certificate for RASTO Transport Hook G2

## 10 Test certificate for RASTO Transport Hook G2

Part code:	607550
Serial number:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Year of manufacture:	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Functional check pursuant to section 3.1 passed:	<input type="checkbox"/>
Weld seams visible, no external cracks or damage detectable:	<input type="checkbox"/>
No deflection/warping of housing, operating lever, suspension link and lock:	<input type="checkbox"/>
Operating lever is red; paint red if necessary (RAL 3020):	<input type="checkbox"/>
All screw connections in place and checked for tightness:	<input type="checkbox"/>
No corrosion damage that could affect functioning or safety:	<input type="checkbox"/>
Passed test on Hook Template (code:607590):	<input type="checkbox"/>
ID plate in place and legible:	<input type="checkbox"/>
ID plate in place and legible:	<input type="checkbox"/>
Regular testing documented by inspection tag with month/year:	<input type="checkbox"/>
Data bag containing operating instructions	<input type="checkbox"/>
Clear opening of lifting eye (dimension a) $50 \pm 2.5$ mm:	<input type="checkbox"/>
Diameter of the lifting eye in the small radius $\varnothing 16 \pm 1.5$ mm	<input type="checkbox"/>

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

## EU Declaration of conformity

### Manufacturer

HÜNNEBECK GmbH  
Rehhecke 80  
D-40885 Ratingen  
Tel: +49 (0) 2102 937-1  
Fax: +49 (0) 2102 37651

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

RASTO Transport Hook G2

### Prod. code

607550

### Function

Lifting accessory for crane transport of RASTO formwork units.

### Guidelines

- 2006/42/EC


### Harmonized standards

- DIN EN 1677-1:2009-03 and 1677-4:2009-03
- DIN EN ISO 12100:2010
- DIN EN 13155:2003+A2:2009
- DIN EN ISO 13857:2008

Ratingen, 17.08.2020  
HÜNNEBECK GmbH

### Signed by:

  
ppa. Mario Ariyoshi  
Technical Director

  
i. A. Matthias Tolls  
Project Manager Formwork

Person in charge for documentation as defined by attachment II No.1. A. No. 2, 2006/42/EC  
Name: Jörg Gaudian - QA-Manager, International Supply Chain





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The illustrations contained in this document reflect normal operation at a construction site and are not always correct in regard to safety issues.

**Last modified October 2020**  
**Keep for later use!**