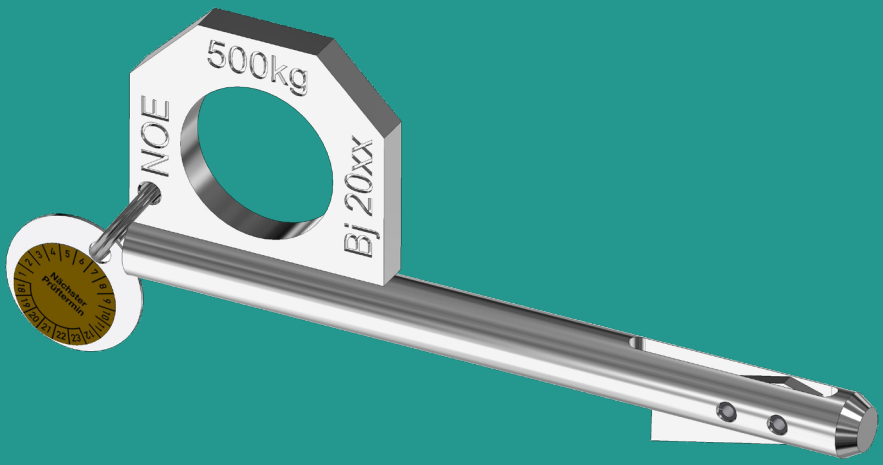
THE FORMWORK

NOE® Lifting Pin

Date: 10/2023

Operating Instructions



THE FORMWORK

Contents

Key:

	**Attention!**
	**Note**
	**Visual inspection**

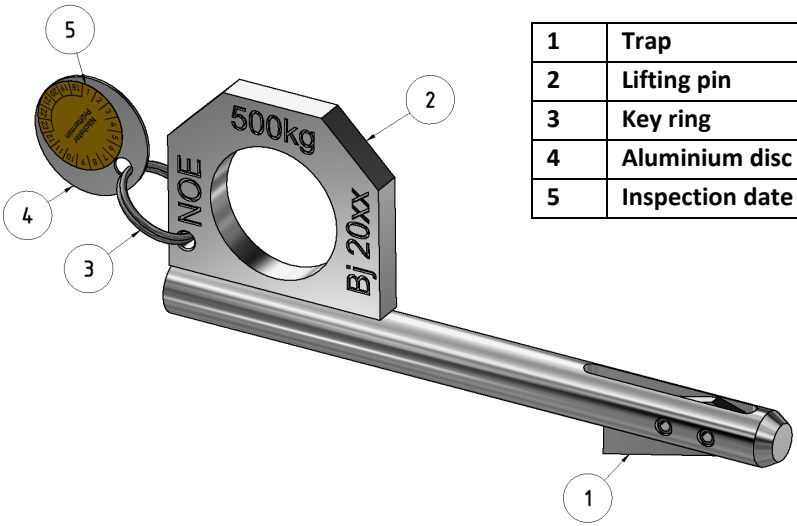
Read and observe the operating instructions. Keep the operating instructions for future use on site in an easily accessible place so that they can be viewed at any time.

1 Operating instructions

1.1 Product features

NOE lifting pin

Part No.	136808
Load capacity	500kg
Self weight	0.66 kg
Year of manufacture	20XX



1	**Trap**
2	**Lifting pin**
3	**Key ring**
4	**Aluminium disc**
5	**Inspection date label**

	Load suspension equipment in device according to with DGUV Rule 100-500, Chapter 2.8

1.2 Safety instructions

	**Safety instructions for the operation of load handling devices according to DGUV Rule 100-500, Chapter 2.8**

1. Observe the provisions of the operating instructions when using the NOE lifting pin with suspension chains.
2. The contractor must ensure that the operating instructions supplied by NOE are kept readily accessible at the place of use.
3. If the contractor's own employees are responsible for the use of load suspension equipment, all of them have to be familiar, with the tasks involved.
4. The NOE lifting pin must be used in such a way that no-one is placed in any danger.
5. The NOE lifting pin must not be subjected to loads in excess of its load capacity (Fig. 1).
6. 4 lifting pins per panel must always be used.
7. Formwork elements on which there are loose parts must not be transported.
8. Loads must be lifted and set down in such a way that they cannot accidentally tilt over, collapse, slide off or roll off.
9. The ropes and chains used must not be tensioned across sharp edges on loads.
10. Steel wire cables and round steel chains must not be knotted.
11. Twisted chains must be straightened out before being used to raise a load.
12. Loads must not be set down on the NOE lifting pin, because this could damage it.
13. When in storage, the NOE lifting pin must be protected against weathering and corrosive substances, as these may impair its safety and operational reliability.
14. Persons using the NOE lifting pin must keep an eye open for signs of any obvious defects, such as deformation, cracking, breaks or missing markings.
15. It is the contractor's responsibility to ensure that a NOE lifting pin with defects that may put safety at risk is taken out of circulation.
16. It is the contractor's responsibility to ensure that any necessary repairs to the NOE lifting pin are made exclusively by the manufacturer.

17. It is the contractor's responsibility to ensure that the NOE lifting pin is used only after it has been inspected and approved by an expert and after any defects detected have been rectified.
18. It is the contractor's responsibility to ensure that the NOE lifting pin is inspected by an expert at intervals of no more than one year, and that the inspection procedure is confirmed by means of a inspection date label.
19. It is the contractor's responsibility to ensure that the NOE lifting pin is subjected to an extraordinary inspection by an expert following damage or specific incidents that could affect its load capacity or following repairs.

1.3 Intended Use

These operating instructions contain information about the handling and proper use of the NOE lifting pin.
The lifting pin is a load-carrying attachment intended for use when moving NOEtop, NOEtop Alu, Top2000 and NOEtop4 formwork elements.

	**The use of lifting pins for handling elements from other formwork systems is not permitted!**

	**The NOE lifting pin must not be used to handle damaged elements and groups of elements that are not linked sufficiently rigidly together!**

Items must be moved only in a horizontal orientation with 4 NOE lifting pins per panel. Moving elements in the vertical orientation is not permitted.
The NOE lifting pin can be used within an ambient temperature range of -20 °C to +60 °C. Use equipment only if it is in perfect condition! Damaged NOE lifting pins must be taken out of circulation!

	**Use only original NOE parts as spare parts!**

Furthermore, the latest version of the relevant national safety regulations (must be complied with e.g. in Germany, the current employers' occupational insurance

institution's accident prevention regulations for safety and health at work, DGUV Rules 100 -500, Chapter 2.8, Betreiben von Lastaufnahmeeinrichtungen im Hebezeugbetrieb (Operation of load suspension equipment used for lifting)).

⚠	**It is strictly forbidden to transport persons on the load or for anyone to pass underneath the suspended load!**

2 Use of the lifting pin

2.1 Labelling

The labelling on the lifting pin
(see Figure 1) complies with DGUV 100-500, Chapter 2.8, Clause 3.4

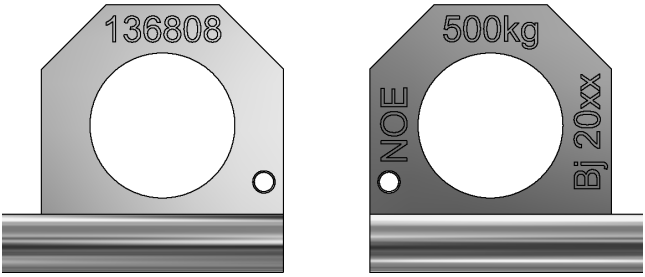
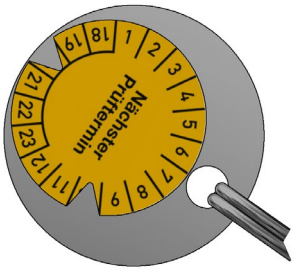


Figure 1

⚠	**The NOE lifting pin must not be used if the label is missing, illegible or incomplete. A new label may be affixed only by NOE.**

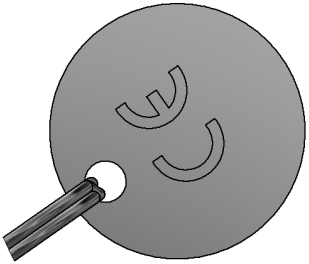
2.2 Test badge and CE – marking



Tested lifting pins are identified by marking the year and month numbers on the test badge, e.g. October 2020.

Figure 2: Test badge

⚠	**The NOE lifting pin must not be used if the test badge is missing or illegible. Another inspection and re-badging must be arranged in accordance with DGUV 100-500.**



The CE marking can be found on the reverse of the aluminium disc.

2.3 Load capacity

☞	**The maximum permitted load is 500 kg.**

2.4 Attaching the lifting pin

	**Before lifting the panels, always check that the lifting pin is fully inserted and fixed in place.**

With the hook eye pointing upwards in accordance with Fig. 3, insert the lifting pin until the trap (1) snaps out again in accordance with Fig. 3.

Note:

Clear any hardened concrete from the holes using a drill. Do not use the lifting pin as a chisel.

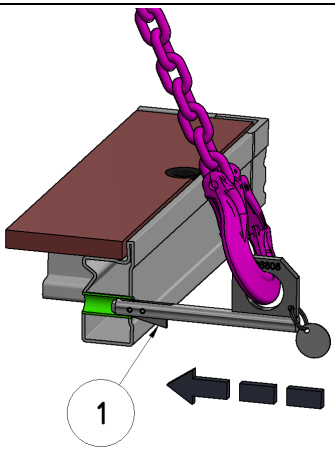


Figure 3

Before lifting the formwork panels, always check that the safety trap Fig. 4 (1) is effective by applying a test pull (Fig. 4)!

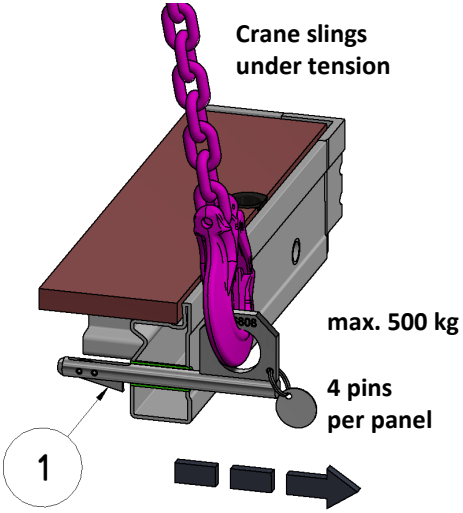
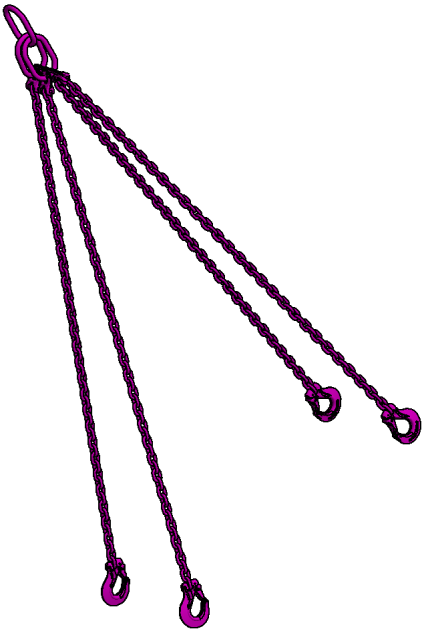
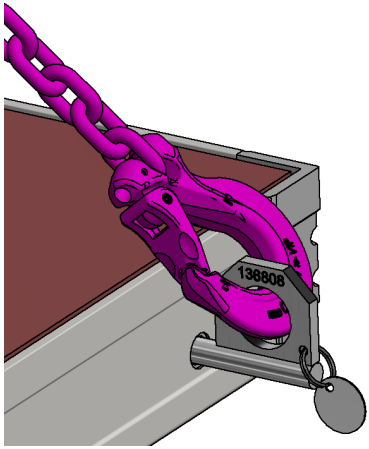


Figure 4

2.5 Transport

2.5.1 Sling devices

Use only suspension gear with 4 sling chains.	
The sling chains must be able to move freely in the lifting pin eye. Use only hooks with a safety device to prevent accidental disengaging.	

2.5.2 Transporting element stacks

	**A 4-pin configuration allows a maximum load of 1500 kg to be transported.**

NOEtop + Top2000	
Applies to facings in NOEform and in plastic	
Frame dimensions	**No. of units**
5300 x 2650	1
3310 x 2650	2
2650 x 2650	3
1325 x 3310	4
1325 x 2650	7
1000 x 3310	7
1000 x 2650	8
All other dimensions!	8

NOEtop4	
Applies to facings in NOEform and in plastic	
Frame dimensions	**No. of units**
2400 x 3600	2
2400 x 3000	2
1200 x 3600	4
1200 x 3000	5
900 x 3600	5
900 x 3000	6
600 x 3600	7
900 x 2400	7
All other dimensions!	Max. 8

NOEtop Alu
Applies to facings in NOEform and in plastic

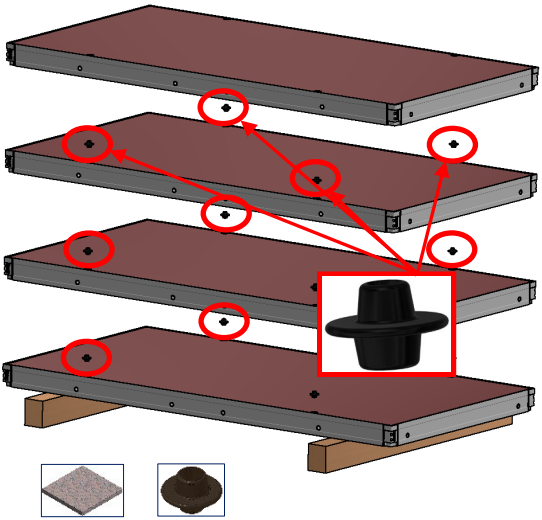
Element stack heights must not exceed 8 panels!

Moving element stacks is allowed only with NOE fixation plates, plastic storage washers or anti-slip rubber mats.

PLASTIC STORAGE WASHER NOEtop
Part No. 919070

FIXATION PLATE NOEtop Alu
Part No. 919060

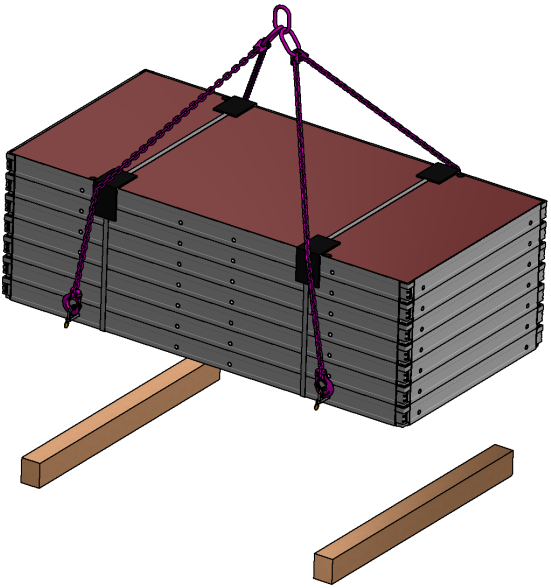
Anti-slip mat
Part No. 990152

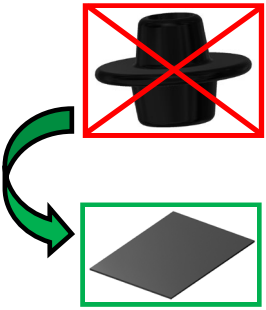


Elements lifted in stacks must be secured against slipping, sliding or rolling off with transport strapping!

Lifting from pins inserted into the upper elements is absolutely forbidden! Transport strapping is there to secure the load only and is not to be used as a sling device.

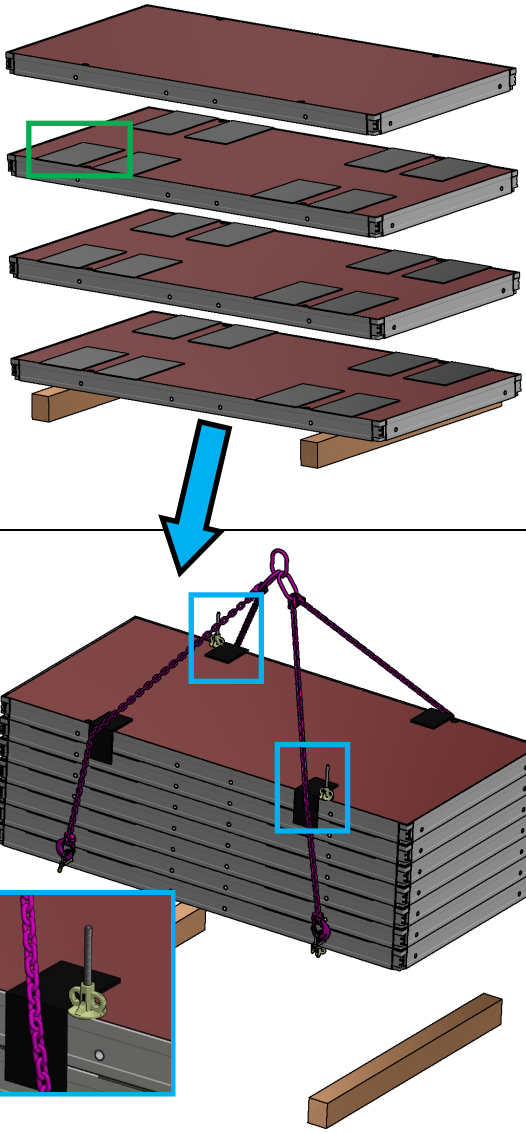
Always attach the sling devices to NOE lifting pins in the lowest element!



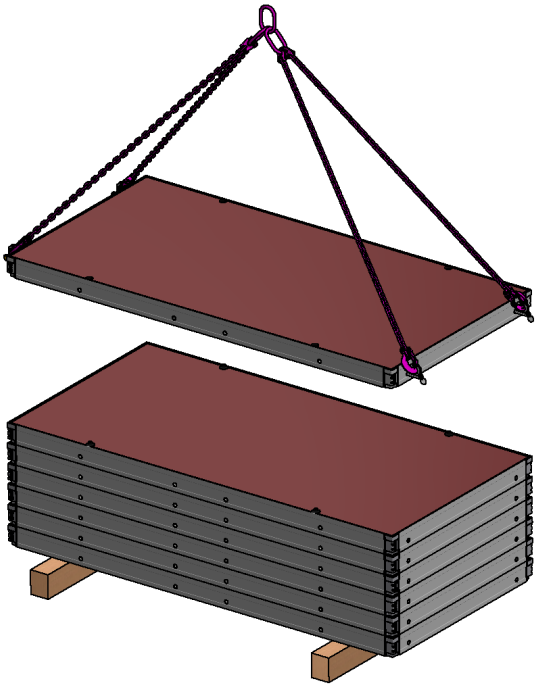


As an alternative to transport straps, 2 tie rods with 4 Sprint nuts placed diagonally can be used and the plastic storage washers or fixation plates replaced with rubber mats.

Always attach the sling devices to NOE lifting pins in the lowest element, In this case too!

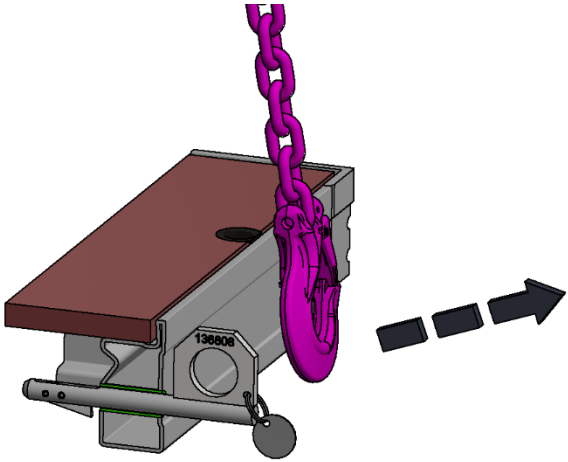


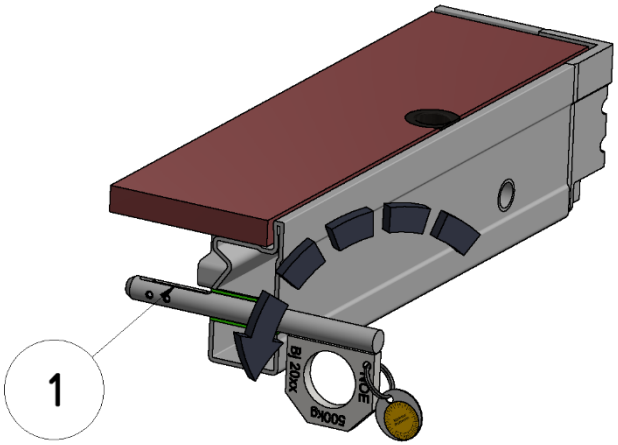
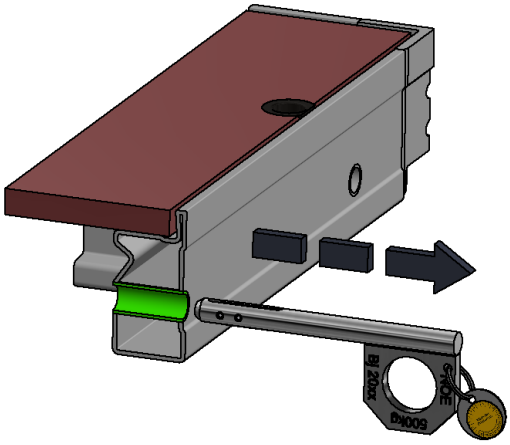
⚠	**A 4-pin configuration allows a maximum load of 1500 kg to be transported.**

When transporting individual elements, the lifting pins may be attached to the ends of elements.	

2.6 Removing lifting pins

⚠	**Before removing the NOE lifting pins, always ensure that the formwork elements are resting on a firm surface and are adequately supported!**

Release the lifting tackle and remove the lifting pins in accordance with Fig. 5.	 Figure 5

Rotate the lifting pins so the hook eye points downwards in accordance with Fig. 6. The trap (1) Fig. 6 automatically drops down into the lifting pin.	 Figure 6
Pull the lifting pin back and out of the hole Fig. 7.	 Figure 7

3 Appendix

3.1 EC Declaration of Conformity

CE EC Declaration of Conformity

In accordance with the EU Machinery Directive 2006/42/EC, Annex II 1A

We hereby declare that the following product conforms to the relevant fundamental safety and health requirements of the EU Directive 2006/42/EC on the basis of its design and type, and in the version brought into circulation by us.

Any modifications made to the product without our approval render this declaration invalid.

Manufacturer:

NOE-Schaltechnik
Georg Meyer-Keller GmbH + Co. KG
Kuntzestrasse 72
73079 Süssen, Germany

Description and identification of the product:

- Area of use: NOEtop formwork elements
- Type: Load-carrying attachment
- Part number: 136808
- Description: NOE lifting pin

Harmonised standards applied in particular:

- DIN EN 14121: Safety of machinery – Risk assessment
- DIN EN 349:1993+A1:2008: Safety of machinery – Minimum gaps to avoid crushing of parts of the human body

Other technical standards and specifications used:

- DGUV Rule 100-500: Use of equipment

Authorised representative for the technical documentation:

Dipl.-Ing. (FH) Dietmar Kieß
Kuntzestrasse 72
73079 Süssen, Germany

Süssen, 10.07.2019

Dipl.-Oec. Stefan Blessing
Managing Director

Dipl-Ing. (FH) Dietmar Kieß
Prokurist/Technical Manager

3.2 Inspection and maintenance

3.2.1 General

When inspecting the NOE lifting pin, the relevant paragraphs of the latest version of DGUV Rule 100-500, Chapter 2.8 “Use of equipment” and the accident prevention regulation “Load suspension equipment used for lifting” must be observed.
Of particular importance are Chapter 2.8 Clauses 3.15.1 “Inspection prior to first use” and 3.15.2 “Scheduled inspections” as well as 3.15.3 “Extraordinary inspections” (each of these inspections must be carried out by an expert).
DIN 685 Part 5 “Round steel link chains; Utilisation” also applies.

3.2.2 Scope

These inspection instructions apply for scheduled repeated checks or checks after specific events of the following load-carrying attachments manufactured and sold or hired out by NOE-Schaltechnik:

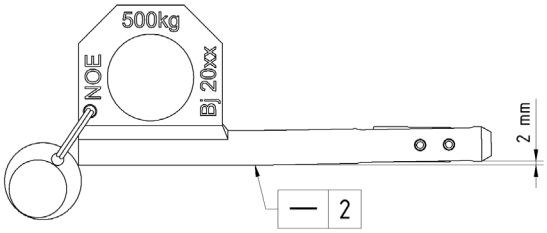
Description	**NOE lifting pin**
Part No.	**136808**
Load capacity	**500 kg**
Self weight	**0.66 kg**

3.2.3 Purpose

The scheduled repeated inspection of the load suspension equipment assures its operational safety and reliability and excludes any potential risk of accidents.
The inspections must be carried out at regular intervals (in Germany at least every 12 months).
Depending on the operating conditions, it may be necessary to perform inspections more frequently.

3.2.4 Scope of inspections

Inspection prior to first use in accordance with DGUV Rule 100-500, Chapter 2.8 largely comprises a visual inspection and functional check.
The condition of the component and its functional reliability are checked.

	- **Wear or corrosion.** - **Are any parts missing?** - **Cracking of weld seams or component parts.** - **Dimensional changes in the load-carrying attachment.** - **Mechanical damage.** **Functional inspection:** - **Free movement of the trap** - **Ease of movement of the moving parts**
	**Deformations of more than 2 mm are not permitted.** 

3.2.5 Maintenance

Ensure that the locking trap can move freely. Any evidence of soiling on the NOE lifting pin that may impair its function (concrete residues etc.) must be completely removed. The installation point on the panel must likewise be free from soiling that may impair its function and in perfect working order.

	**Any repairs may be carried out only by the manufacturer.**

3.2.6 Responsibility

The operator (or a designated safety officer) is responsible for ensuring that the load-carrying attachment undergoes regular repeated safety inspections. Safety inspections of this load-carrying attachment may be performed only by trained personnel (in Germany: an expert in accordance with DGUV Rule 100-500, Chapter 2.8).

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