

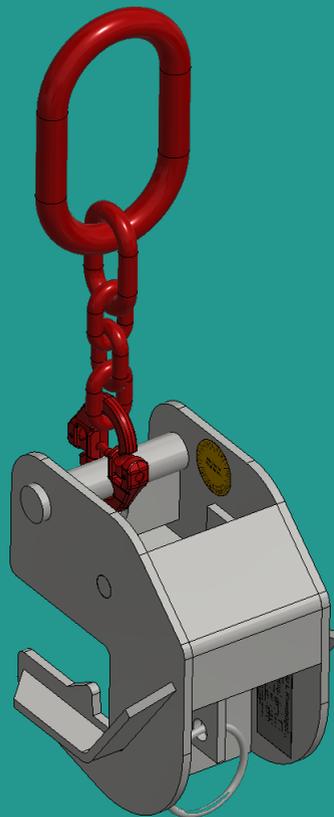


DIE SCHALUNG

NOE[®] alu L Kranbügel

Stand: 07.2019

Operating Instructions NOEalu L Crane Hook



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Key:

	Attention!
	Note
	Visual inspection

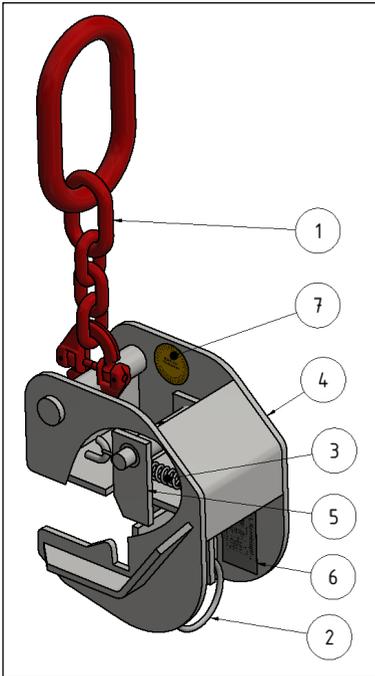
Read and observe the operating instructions. Keep them readily accessible for future reference at the crane's point of use, so that they can be consulted whenever needed.

1. Operating Instructions

1.1 Product features

Alu-L Crane hook

Part No. 402621
 Load capacity 0.7–1.0 t
 Self-weight 3.8 kg
 Construction year 20XX



1	Suspension chain
2	Actuating lever
3	Compression spring
4	Housing
5	Safety catch
6	Nameplate with area for stamp
7	Inspection sticker

Figure 1: Crane hook



Lifting equipment in accordance with DGUV Rules 100-500, Section 2.8

1.2 Safety advice



Safety notes for operating lifting equipment in accordance with DGUV Rules 100-500, Section 2.8

1. When operating the Alu-L crane hook observe the information in the operating - instructions.
2. The contractor shall ensure that the operating instructions supplied together with the equipment by NOE are kept readily accessible at the crane's point of use, so that they can be consulted whenever needed.
3. The contractor may only entrust tasks involving the independent handling of lifting equipment to individuals experienced with dealing with such tasks.
4. The Alu-L crane hook must not be used in such a way that might endanger the safety of individuals.
5. The Alu-L crane hook must not be loaded beyond its rated load (Abbildung 2 : Typenschild) capacity.
6. Formwork elements must not be transported with loose parts lying on them.
7. Loads must be taken up and set down in such a way that they cannot accidentally tilt over, collapse, slide off or roll off.
8. The ropes and chains used must not be tensioned across sharp edges on loads.
9. Steel wire cables and round steel chains must not be knotted.
10. Twisted chains must be straightened out before being used to raise a load.
11. Loads must not be set down on the Alu-L crane hook due to the risk of damage to the hook.
12. The Alu-L crane hook must be protected against weathering and corrosive substances, as these may impair its safety and operational reliability.
13. Persons using the Alu-L crane hook must keep an eye open for signs of any obvious defects, such as deformation, cracking, breaks or missing markings.
14. It is the contractor's responsibility to ensure that Alu-L crane hooks with defects that may put safety at risk are taken out of circulation.
15. It is the contractor's responsibility to ensure that any necessary repairs to the Alu-L crane hook are made exclusively by the manufacturer.

16. It is the contractor's responsibility to ensure that an Alu-L crane hook is only used after it has been inspected and approved by an expert and not until any defects detected have been rectified.
17. It is the contractor's responsibility to ensure that the Alu-L crane hook is inspected by an expert at intervals of no more than one year, and that the checking procedure is confirmed by means of a inspection stamp.
18. It is the contractor's responsibility to ensure that the Alu-L crane hook is submitted to an expert for special inspection following damage or specific events which may affect its load capacity, as well as after repairs.

1.3 Proper use

These operating instructions contain information about the handling and proper use of the Alu-L crane hook.

The Alu-L crane hook is a lifting device for repositioning Alu-L formwork elements.

	<p>The use of this device for handling elements from other formwork systems is not permitted.</p>
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It is used to lift individual Alu-L formwork elements, or groups of elements linked sufficiently rigidly from an upright or horizontal position. When horizontal, the front side of the formwork may be facing either upwards or downwards.

	<p>The Alu-L crane hook must not be used to reposition damaged elements and groups of elements that are not linked sufficiently rigidly!</p>
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The elements must only be transported when in an upright suspended position. The transporting of stacks of elements lying one on top of the other is not permitted. The Alu-L crane hook can be used in ambient temperatures from - 20 °C to + 60 °C. Only use equipment if it is in perfect condition! Damaged Alu-L crane hooks must be taken out of circulation!

	<p>The fixing point on the Alu-L panel must likewise be free from soiling that may impair its function, and be in perfect working order.</p>
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	Use only original NOE parts as spares!
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Furthermore, the latest version of the relevant national safety regulations must be complied with (e.g. in Germany, the accident prevention regulations for safety and health at work, DGUV 100-500, Sec. 2.8 concerning load suspension equipment used for lifting).

	It is strictly forbidden to transport persons on the load or to pass underneath the suspended load!
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2. Using the crane hook

2.1 Type plate

The labelling on the type plate (see Abbildung 2 : Typenschild) complies with DGUV 100-500, Sec. 2.8 §3.4

 NOE®alu L Kranbügel CE			
Teil-Nr. Part no.	402621	$\frac{\sphericalangle}{\sphericalangle}$	T
Baujahr Construction year		90°	1,0 t
		60°	1,0 t
		45°	0,7 t
Betriebsanleitung beachten! Observe the operating instruction! NOE-Schaltechnik Kurtzestr. 72, 73079 Suesen, Germany			

Figure 2: Type plate

	The Alu-L crane hook must not be used if the type plate is missing, illegible or incomplete. A new plate may only be affixed by NOE.
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2.2 Inspection sticker



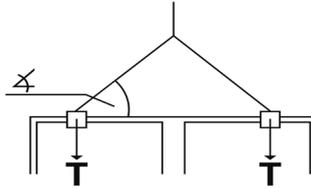
Figure 3: Inspection sticker

	<p>The Alu-L crane hook must not be used if the inspection sticker is missing or illegible. The hook must be resubmitted for testing in order that a new sticker can be issued.</p>
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2.3 Load capacity

α	T
90°	1,0 t
60°	1,0 t
45°	0,7 t

Figure 4: Information on type plate



	<p>The maximum permissible load is 0.7 to 1 t depending on the actual angle of the suspension gear in accordance with Figs 4 and 2.</p>
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2.4 Attaching the Alu-L crane hook

	<p>When transporting several panels linked together, the suspension points must lie on panel butt joints (see Section 2.5). This prevents the crane hook slipping sideways. The two Alu-L crane hooks should also be secured symmetrically with respect to the load's centre of gravity.</p>
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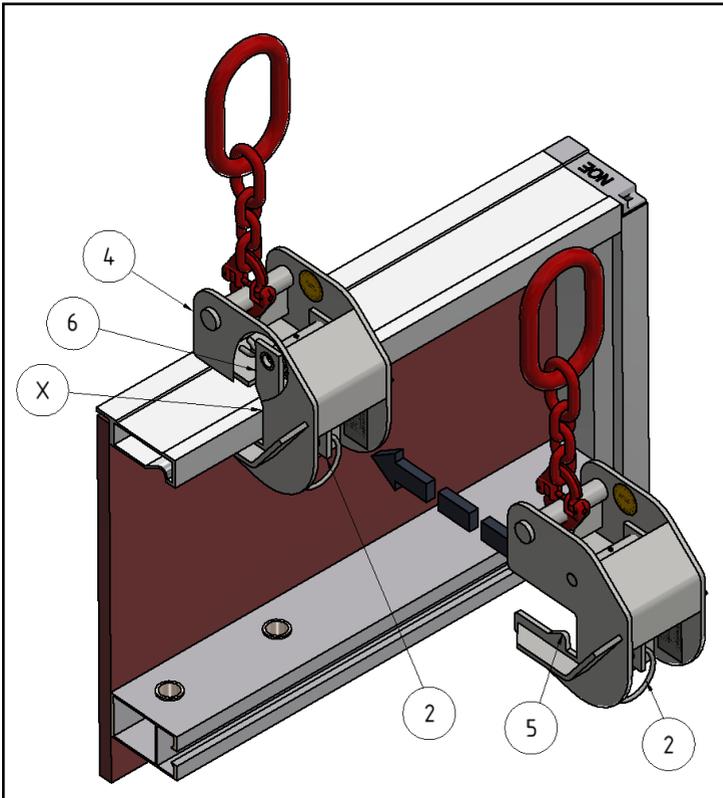


Figure 5: Attaching the Alu-L crane hook

Push the Alu-L crane hook over the Alu-L profile as illustrated in Fig. 5, until it engages in the profile (see X). The locking hook (5) will engage automatically in the profile and the safety catch (6) locks in place.

	<p>Check that the actuating lever (2) retracts fully to its initial position (see Fig. 5) on the Alu-L crane hook (4).</p>
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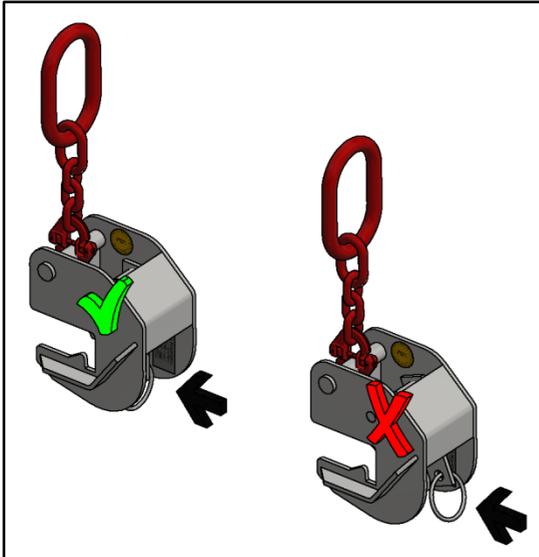


Figure 6: Locking

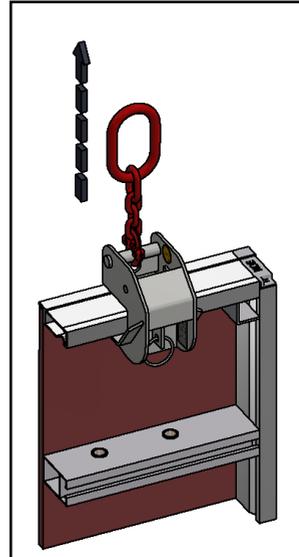


Figure 7: Lifting

Raise the suspension gear as illustrated in Fig. 7.

The use of the Alu-L crane hook to transport NOE formwork elements is subject to the following safety notes:

	<p>Do not attach the crane hook directly to the suspension element.</p>
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	<p>Only use suspension gear with sling chains.</p>
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The sling chains must be able to move freely in the suspension element. Use only hooks with a safety device to prevent accidental disengaging.

	<p>The crane must not be used as an aid to release formwork elements from concrete! This would risk overloading the Alu-L crane hook and the sudden separation of the elements from the concrete results in uncontrolled movements of the formwork elements, thereby constituting a serious risk of injury.</p>
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Never set down the load suddenly.



Set down the load in such a way that the actuating lever (Fig. 5) cannot strike against or the Alu-L-crane hook come to rest on an obstructing object.

2.5 Moving loads

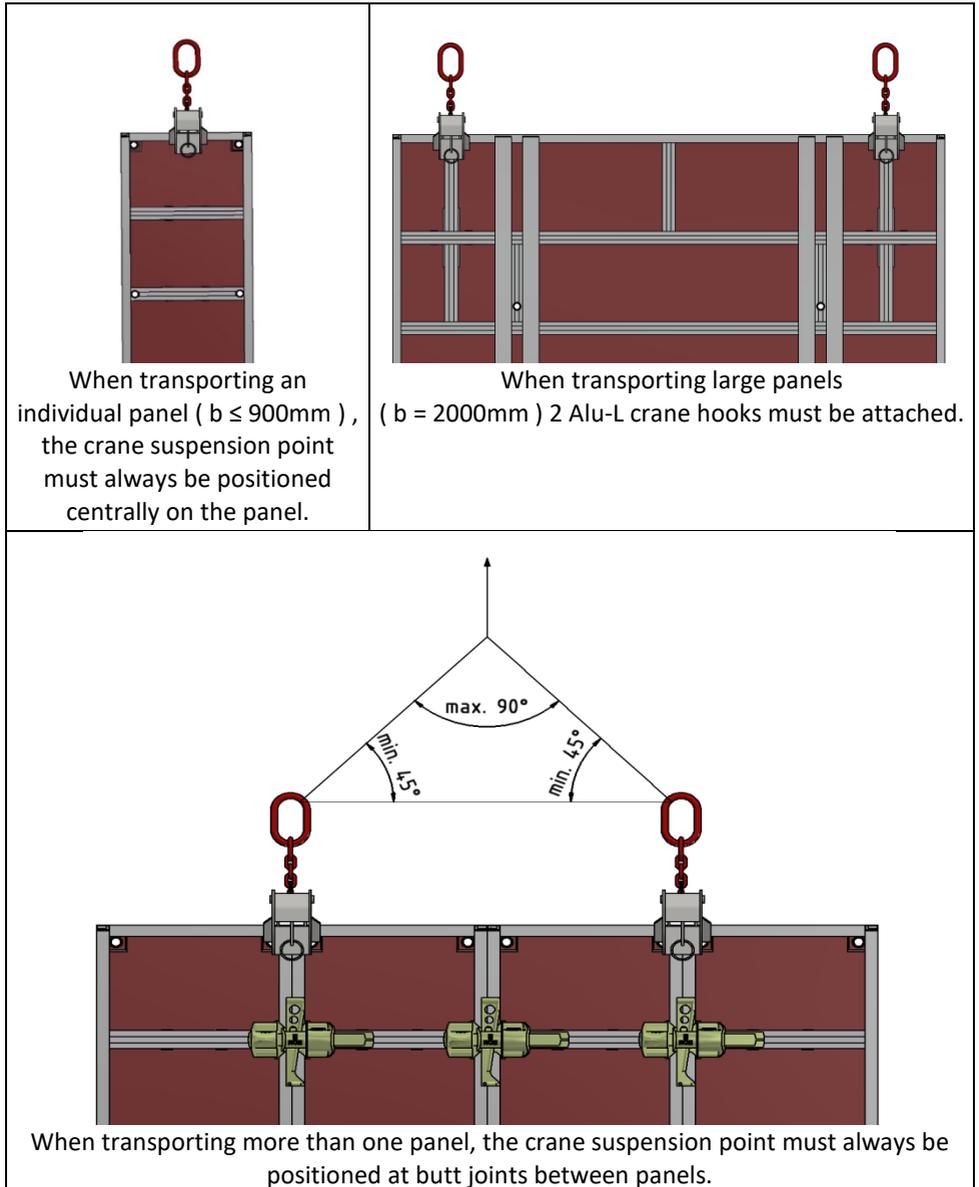


Figure 8: Moving loads

2.6 Detaching the Alu-L crane hook

	<p>Before releasing the Alu-L crane hook, always ensure that the formwork elements are resting and supported in a sufficiently stable manner.</p> <p>Elements that are not adequately secured could fall over when the Alu-L crane hook is released and cause serious injury.</p>
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The Alu-L crane hook is detached as illustrated in Fig. 9.

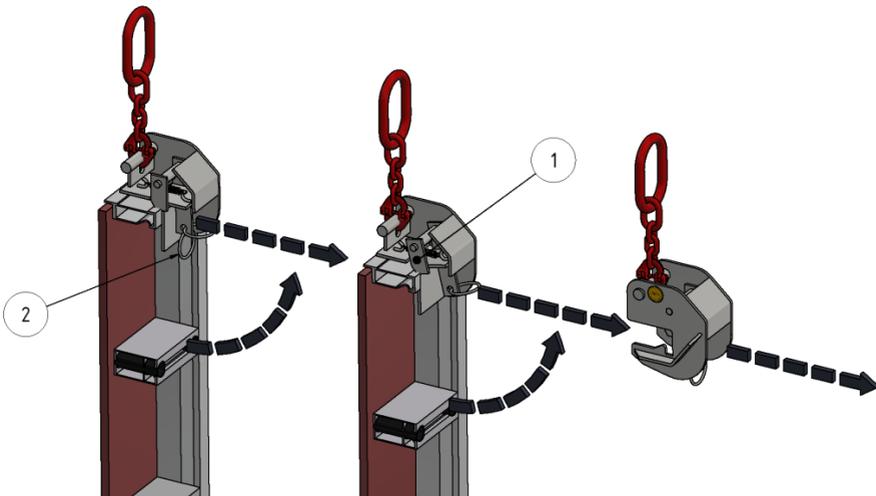


Figure 9: Detaching crane hook

Pull the ring of the actuating lever (2) outward and hold it down so that the safety catch (1) is raised. Pull the crane hook back to remove it (Fig. 9).

	<p>The actuating lever (2) snaps automatically into its initial position (Fig. 9 right).</p>
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When picking up or setting down a formwork element that is lying flat, face upwards, squared timber at least 20 cm thick must be placed underneath it before the Alu-L crane hook can be used. Stacked formwork elements can be made accessible by sliding them sideways.

3. Appendix

3.1 EC declaration of conformity

EC Declaration of Conformity

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

We hereby declare that the following product conforms to the fundamental health and safety requirements of the EC 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 Mayer-Keller GmbH + Co. KG
Kuntzestrasse 72
73079 Süssen, Germany

Description and identification of the product:

- Application area: Alu-L wall formwork
- Type: load suspension device
- Part number: 402621
- Description: Alu-L Crane hook

Harmonised standards applied, in particular:

- DIN EN 14121: Safety of Machinery – Risk Assessment
- DIN EN 1677: Components for slings – Forged steel components
- DIN EN 818: Short link chain for lifting purposes
- DIN EN 349: Safety of machinery – Minimum gaps

Other technical standards and specifications applied:

- DGUV Rules 100-500: Accident prevention regulations

Authorised person for the technical documentation:

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

Süssen, 19/04/2019



Dipl.-Oec. Stefan Blessing
CEO



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

3.2 Checks and maintenance

3.2.1 General

When checking the Alu-L crane hook, the relevant paragraphs of the latest version of the accident prevention regulations DGUV Rules 100-500, Section 2.8 "Load suspension equipment used for lifting" must be observed. Of particular importance are Sections 2.8 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 checking instructions apply for regular repeated checks, or checking after specific events, of the following load suspension equipment manufactured and sold or hired out by NOE-Schaltechnik:

Description	Alu L Crane hook
Part No.	402621
Load capacity	0.7 t to 1 t depending on the actual angle of the suspension gear according to Abbildung 2 : Typenschild
Self-weight	3.8 kg

3.2.3 Purpose

The regular repeated checking 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 checks

Inspection prior to first use in accordance with DGUV Rules 100-500, Section 2.8 largely comprises a visual inspection and functional check. This involves checking the condition of the component and its functional reliability.



- **Wear (in particular pins), corrosion.**
- **Check control dimension 42 mm +1.**
- **Are any parts missing?**
- **Chain (see DIN 685 Part 5 Sections 4.1 and 4.2) and DGUV Rules 100-500, Section 2.8, para. 3.15.4 Scope of checks (Germany).**
- **Cracking of weld seams and component parts.**
- **Dimensional changes in the load suspension equipment.**

Functional check:

- **Tension spring for safety catch**
- **Unobstructed movement of moving parts**
- **Attaching the Alu-L-crane hook to an Alu-L- element**

3.2.5 Maintenance

The free movement of the safety catch must be assured. Any and all evidence of soiling of the Alu-L crane hook which may impair its function (residual concrete, etc.) must be removed.

The fixing point on the Alu-L panel must likewise be free from soiling that may impair its function, and be in perfect working order.

The following dimensional checks must be carried out:

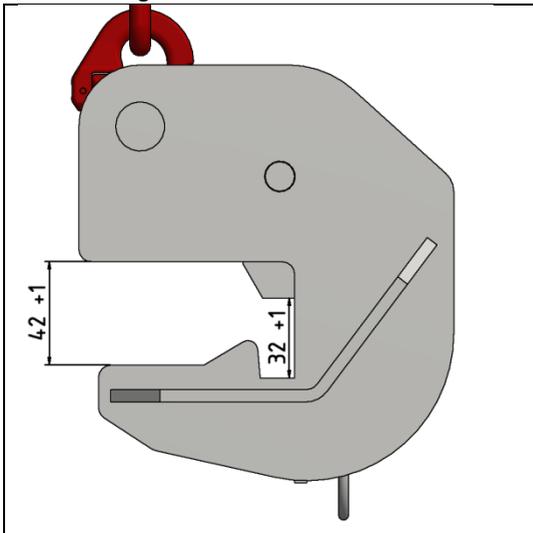


Figure 10: Check dimension: Width of opening

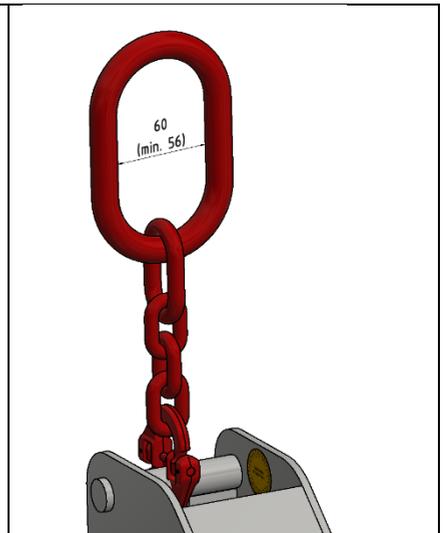


Fig. 11: Check dimension: Oval ring

Alu-L crane hooks that do not pass the dimensional check must be taken out of circulation!

	<p>Any repairs may only be carried out by the manufacturer.</p>
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3.2.6 Responsibility

The operator (or a designated safety consultant) is responsible for ensuring that the load suspension equipment undergoes regular repeated safety checks as per specification. Safety checks on this load suspension equipment may only be performed by trained - personnel (in Germany: expert as defined by accident prevention regulation DGUV Rules 100-500, Section 2.8).



DIE SCHALUNG



**NOE-Schaltechnik
Georg Meyer-Keller GmbH + Co. KG**

Kuntzestr. 72, 73079 Suessen, Germany
T + 49 7162 13-1
F + 49 7162 13-288
info@noe.de
www.noe.de
www.noeplast.com

Belgien

NOE-Bekistingtechniek N.V.
www.noe.be
info@noe.be

Frankreich

NOE-France
www.noe-france.fr
info@noe-france.fr

Niederlande

NOE-Bekistingtechniek b.v.
www.noe.nl
info@noe.nl

Österreich

NOE-Schaltechnik GmbH
www.noe-schaltechnik.at
noe@noe-schaltechnik.at

Polen

NOE-PL Sp. Zo.o.
www.noe.pl
noe@noe.pl

Schweiz

NOE-Schaltechnik GmbH
www.noe.ch
info@noe.ch