

Crane Hook Operating Instructions



MEVA Schalungs-Systeme GmbH

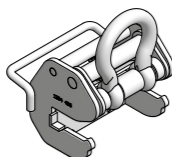
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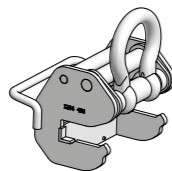
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1. Product description

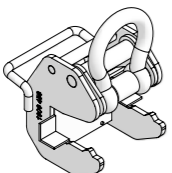
29-103-10 ML/MM crane hook 6.0 kg
Used to move MevaLite panels by crane, self-locking. Load capacity: 6 kN (600 kg). Each gang requires two crane hooks.



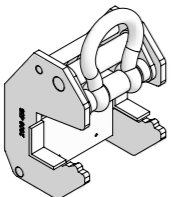
29-103-05 EA/AF crane hook 6.0 kg
Used to move AluFix and EcoAs panels by crane; self-locking. Load capacity: 6 kN (600 kg). Each gang requires two crane hooks.



29-203-89 AS crane hook 6.0 kg
Used to move AluStar, StarTec and StarTec XT panels by crane, self-locking; load capacity: 15 kN (1.5 tons). Each gang requires two crane hooks.



29-401-21 M crane hook 9.6 kg
Used to move Mammut / Mammut 350 / Mammut XT panels and Imperial panels by crane; self-locking; load capacity: 15 kN (1.5 tons). Each gang requires two crane hooks.



2. Preventive measures and safety instructions

2.1. Information about the operating instructions

- You must read the operating instructions carefully before using the crane hook for the first time and make the information provided available to all persons who are authorized to use the crane hook.
- The crane hook may only be used by authorised and trained personnel in accordance with DGUV R 109-017.
- Use the crane hook only for the use described in these operating instructions. Impermissible use of the crane hook can result in damage and in extreme cases to danger to life and limb.
- When using the crane hook, the load must never be subjected to oblique pulling, abrupt lifting or tilting strike during rotation.
- There must be no persons present below the raised load.
- The crane hook must not be used if the data plate is missing or the load capacity data is illegible.

If the data plate is missing, the CE declaration and the operating instructions are no longer valid.

- Never exceed the load capacity of the crane hook.

2.2. Information about use

- Before using it for the first time, the crane hook must be inspected in accordance with section 6 of these operating instructions.
- Before each use, visually inspect the crane hook for damage and ensure it is complete, that moving parts are secure and that it functions correctly.
- Ensure that the load is distributed evenly.
- During the lifting process ensure that the load attached to the crane hook does not swing to and fro or strike other parts. The tips of load hooks must not be subject to load and must move freely in the attachment eyelet.
- Hang up empty load hooks if there is a risk that they can hook unintentionally.
- Loads must be picked up and set down in such a way that the load cannot fall over, fall apart, slide away or roll away unintentionally.

3. Precautionary measures!



There is a risk of crushing accidents during the entire lifting process.



Warning of suspended loads.
It is not permitted to transport the load above other people.

Make sure there is nobody in the hazardous area in the vicinity of the load. Use only lifting gear with lifting chains. The load hook on the lifting chain must move freely in the attachment eyelet of the crane hook.

Ensure that the necessary personal protective equipment required for the use of the crane hook is available and used for its intended purpose:

- Safety helmet
- Safety footwear
- Safety gloves
- Safety glasses

4. Behaviour in the event of an accident – First aid



- Secure the scene of the accident
- Provide first aid
- Inform the first-aid officer and the supervisor
- Tend to the injured person(s)

5. Correct use

Use the crane hook only to transport and relocate individual MEVA formwork panels or large-area panel units made up of individual panels.

Refer to the data plate for the maximum load capacity of each crane hook (Figures 7a to 7d).

EcoAs / MevaLite / AluFix	600 kg
AluStar / StarTec / Mammut 350 / Mammut / Mammut XT / Imperial	1500 kg

5.1 Using the crane hook (Figures 1a to 1d)

1. Open the safety lever as far as possible.
 2. Push the crane hook over the panel profile until the claw engages completely in the groove.
 3. To lock the crane hook, press the safety lever back into its original position. Pay attention to the exact position of the clamping bracket. The noses on the side plates must engage completely in the profile groove.
- The crane hook must be removed from the formwork from a safe working position. Use an extension such as a square timber to open the clamping bracket (Fig. 6).



The installation may only be performed by trained personnel who possess the necessary knowledge and skills (in accordance with the applicable national regulations). Only material that is in perfect condition may be used.

Ensure that damaged parts cannot be reused.

Stripping using the MEVA crane hook



As formwork sticks to freshly poured walls, the formwork must be detached from the concrete before being moved using wooden wedges or formwork pry bars for example. Do not attempt to break the formwork free of the wall using a crane, as this will overload the crane.

Attention



Always use two crane hooks attached symmetrically relative to the centre of gravity in order to ensure that the load cannot shift (Figures 2 to 5).

Important

Before use, check the crane hook for damage. Profiles and welds in the area where the crane hook is attached must be free of damage. Furthermore, the attachment point on the wall formwork panel must be free of contamination.

5.2 Avoidable misuse

- Excessive loads
- Always use two crane hooks symmetrically when crane ganging (Fig. 2)
- The safety lever must move freely
- Use the crane hook in such a way that the load cannot accidentally disengage.

- The opening angle of the crane sling must not exceed 60°
- The crane hook must suit the profile of the wall formwork panel
- The reference dimension must always be observed

Installation condition and maximum reference dimensions

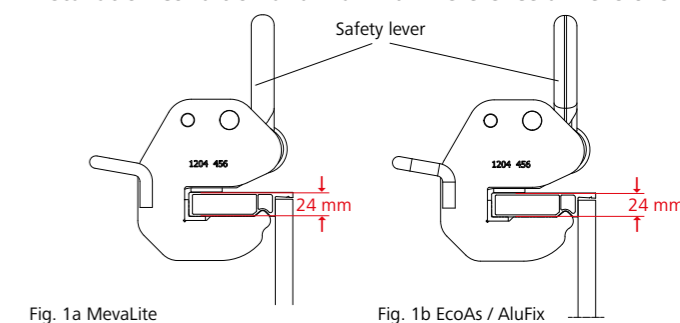


Fig. 1a MevaLite

Fig. 1b EcoAs / AluFix

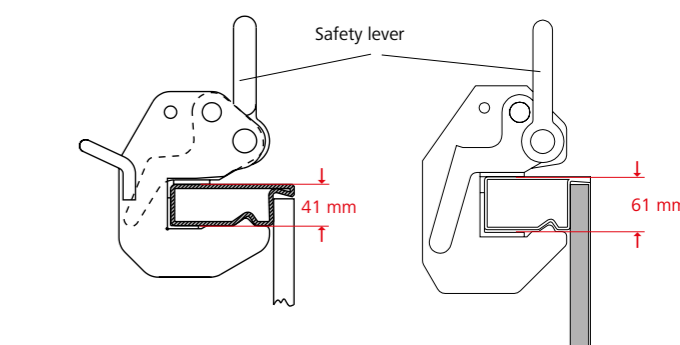


Fig. 1c AluStar / StarTec

Fig. 1d Mammut XT / Mammut 350 / Imperial

Attention:



Persons must never be located under the load when this is being moved or is suspended.

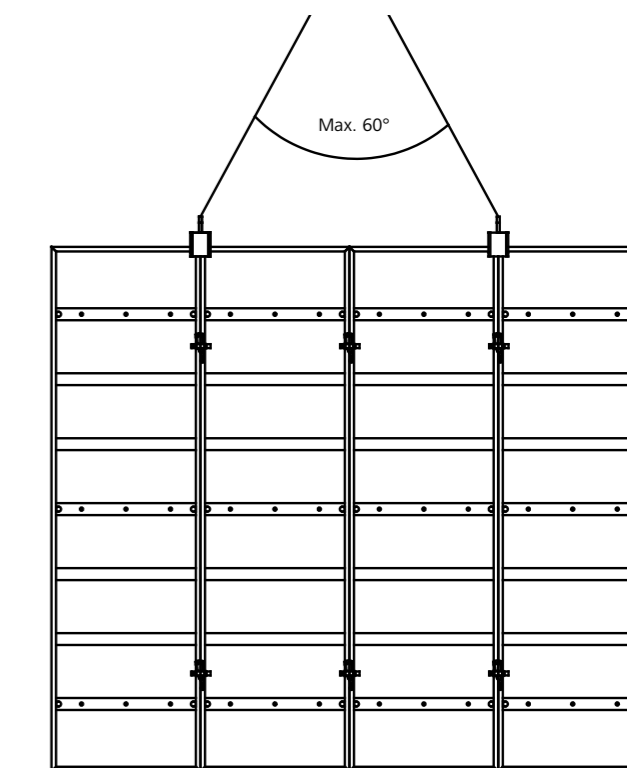


Fig. 2

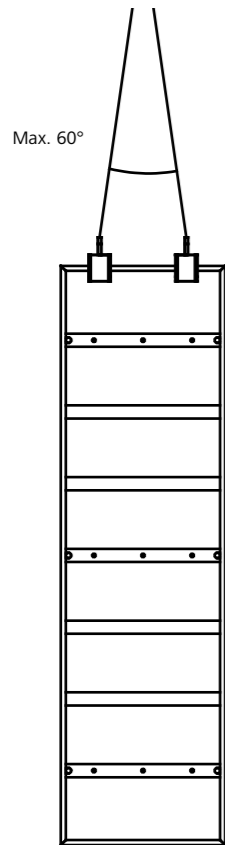


Fig. 3

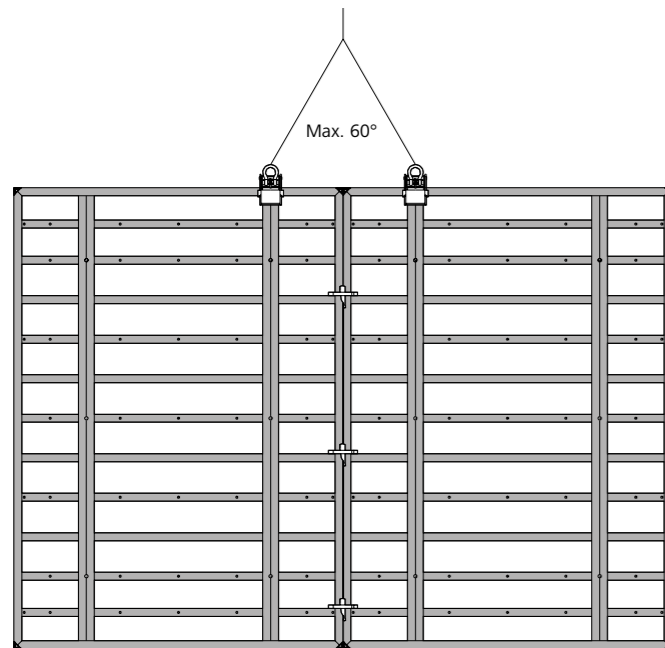


Fig. 5

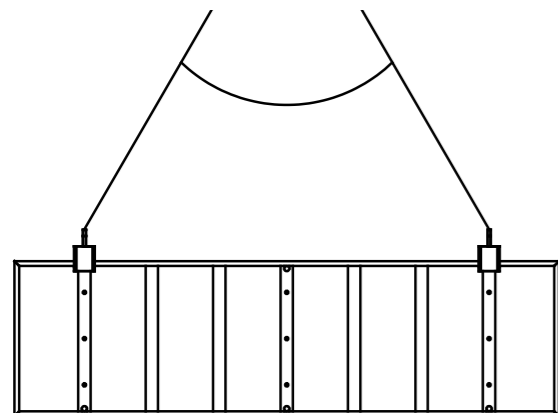


Fig. 4

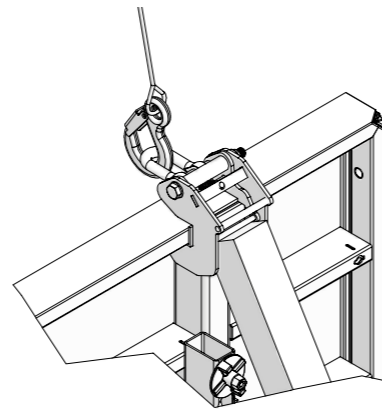


Fig. 6

In all phases of use



- Injuries to hands and fingers can occur due to sharp edges on the unit.
- The stack can strike you or other persons.

5.3 Crane ganging

1. Insert the load hook into the eye bolt on the crane hook. Ensure that the corresponding safety latch on the load hook is closed.
2. Lift the crane hook and position it above the load. The load handler must be located exactly above the load attachment points and the safety latches on the load hooks must close correctly.
3. Raise the crane hook with load slightly and check whether the load centre is exactly below the load hook and whether the load is suspended horizontally. If necessary, the crane hook must be repositioned.

When moving horizontal panels, two crane hooks must be attached above the cross stiffeners so that they are symmetrical to the centre of gravity (Fig. 4). Ensure that the opening angle of the crane sling does not exceed 60°.

When moving large-area panels units, every crane hook must be attached at a panel joint to prevent it shifting (Figures 2 and 5). Attach guide ropes to the formwork units in order to guide them to the next place of deployment. The capacity of the crane sling provided at the construction site must be sufficient to lift the loads that occur.



When setting down the load and raising it again immediately, ensure the load hook has not latched into the clamping bracket, as the crane hook will then always accidentally slip out of the formwork, which will then fall to the ground.

Do not remove the crane hooks from the erected formwork until this has been adequately secured against falling over. Use only load hooks with safety latches to prevent accidental disengagement.

6. Inspection and maintenance

6.1 Inspection before first use

The crane hook underwent a final inspection before leaving the factory and is suitable for the corresponding usage. However, before being used for the first time, the crane hook must be checked by a specialist for any damage that has occurred during transport or due to other causes.

6.2 Inspection

The crane hook must be visually inspected before every use in accordance with the applicable national industrial safety regulations for damage, deformation, corrosion, cracked welds or incipient cracks in welds, etc. Ensure that the crane hook is complete and that moving parts are secure, and check it for correct function and wear. Damaged products must not be used and must be put to one side.

The data plate and the load capacity data must be present and legible.

Important

Before installing the crane hook, inspect the attachment point on the wall formwork panel for damage. Profiles and welds in the area where the crane hook is attached must be free of damage. Furthermore, the attachment points on the wall formwork panel must be free of contamination. Any necessary repairs must be performed by MEVA.



During use of the crane hook, check the following:

- for cracks (weld seams must be free of recesses), corrosion and deformation
- that the leg springs works
- that the safety mechanism moves easily and closes tightly
- for deformation of the eye bolt
- that the data plate is legible (Figures 7a to 7d)
- that the inspection plaque is valid

Ensure that the safety mechanism moves easily. The reference dimension must be observed (Figures 1a to 1d). If the reference dimension is exceeded, the crane hook must be taken out of service and rendered unusable immediately (see section 10).

Regular inspection



Lifting devices may only be inspected by a specialist in accordance with the applicable national statutory regulations.

6.3 Extraordinary inspection

According to DGUV R 109-017, the crane hook must be subjected to an extraordinary inspection performed by a specialist after cases of damage or exceptional occurrences that can influence the load-bearing capacity and also after repairs. Accessories must be checked in accordance with their specific inspection requirements.

6.4 Maintenance

Any contamination such as concrete residue or similar soiling on the crane hook must be completely removed. The attachment points on the panel profiles must also be free of contamination and show no signs of damage.

7. Repairs

Repairs must be carried out by the manufacturer and the crane hook may only be used in its original condition. MEVA assumes no liability for modified products.

8. Data plates and maximum load capacity

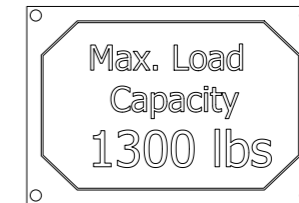


Fig. 7a MevaLite

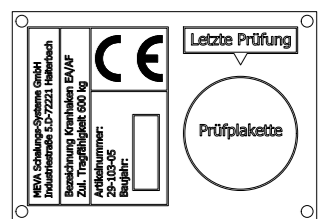


Fig. 7b EcoAs / AluFix

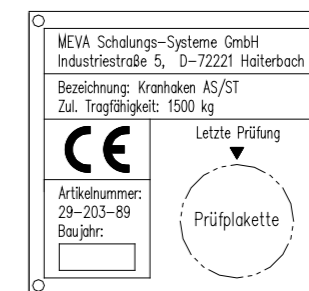


Fig. 7c AluStar / StarTec

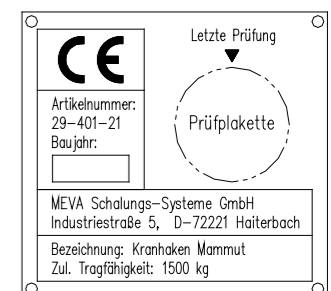


Fig. 7d Mammut 350 / Mammut



The crane hook must not be used if the inspection plaque is missing or illegible (Fig. 8).



Fig. 8 Example inspection plaque

9. Storage

Ensure that the crane hook is stored so that it is suitably protected against the effects of weather and aggressive substances insofar as these have a negative influence on safety.

10. Disposal

Render the crane hook unusable before disposal. After use, dispose of this product in accordance with the laws and regulations that apply in your country.

11. Information for users

- In countries other than Germany observe the currently applicable national regulations and standards!
- If no country-specific regulations are available, we recommend that you observe the German regulations.
- A person with the necessary expertise must be present when the crane hook is being used.



Failure to comply with the information provided above will result in the loss of entitlements within the scope of the product liability as well as warranty entitlements.

Producer

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72221 Haiterbach
GERMANY

Person based in the community, who is
authorised, to collect the relevant technical
documentation:

Dr. Olaf Leitzbach
MEVA Schalungs-Systeme GmbH
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states explicitly, regarding the product

- product description: **AS-crane hook**
- ref.-No.: **29-203-89**

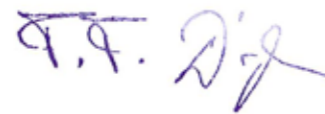
which this declaration refers to, the appropriate regulations of the following EC-directive are
considered:

- 2006/42/EC
Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on
machinery, and amending Directive 95/16/EC (recast)

Source of the applied harmonized standards according to article 7 paragraph 2:

- DIN EN 13155:2009-08
Cranes – Safety – Non-fixed load lifting attachments
- DIN EN ISO 12100:2011-03
Safety of machinery – General principles for design – Risk assessment and risk reduction

Haiterbach, 2018-07-24



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states explicitly, regarding the product

- product description: **EA/AF-crane hook**
- ref.-No.: **29-103-05**

which this declaration refers to, the appropriate regulations of the following EC-directive are
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states explicitly, regarding the product

- product description: **ML/MM-crane hook**
- ref.-No.: **29-103-10**

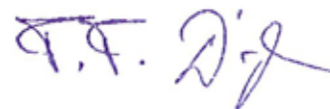
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states explicitly, regarding the product

- product description: **M-crane hook**
- ref.-No.: **29-401-21**

which this declaration refers to, the appropriate regulations of the following EC-directive are
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- 2006/42/EC
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