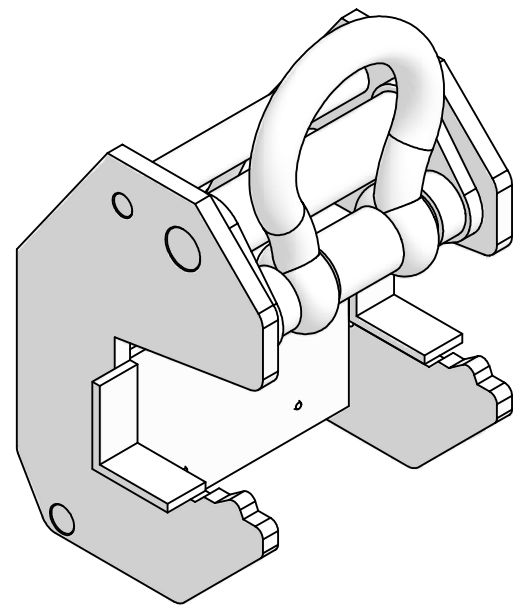




M Special Crane Hook

Operating Instructions



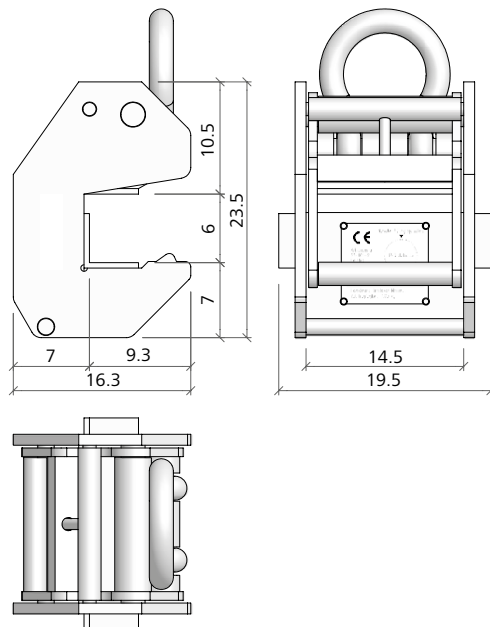
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1. Product description

S10322002-0 M special crane hook, weight 11.7 kg
Used to move large-format Mammut, Mammut 350 and Mammut XT panels by crane; self-locking; load capacity: 24 kN (2.4 tons).
Each gang requires two M special 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 M special crane hook for the first time and make the information provided available to all persons who are authorized to use the M special crane hook.
- The M special crane hook may only be used by authorised and trained personnel in accordance with the currently applicable national laws and regulations.
- Use the M special crane hook only for the use described in these operating instructions. Impermissible use of the M special crane hook can result in damage and in extreme cases to danger to life and limb.
- When using the M special 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 M special 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If the data plate is missing, the CE declaration and the operating instructions are no longer valid.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 M special crane hook.

2.2. Information about use

- Before using it for the first time, the M special crane hook must be inspected in accordance with section 6 of these operating instructions.
- Before each use, visually inspect the M special 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 M special 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 M special 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 M special crane hook only to transport and relocate individual MEVA formwork panels or large-area panel units made up of individual panels.

The load capacity of each M special crane hook is 24 kN (2.4 tons).

5.1. Using the M special crane hook

The M special crane hook is installed as depicted in Fig. 1.

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. 4).



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 M special 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 M special crane hooks attached symmetrically relative to the centre of gravity in order to ensure that the load cannot shift (Figures 5 to 7).

Important

Before use, check the M special 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 M special crane hooks symmetrically when crane ganging (Fig. 2)
- The safety lever must move freely
- Use the M special crane hook in such a way that the load cannot accidentally disengage.
- The opening angle of the crane sling must not exceed 60°
- The reference dimension must always be observed

Attention:



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

5.5. Installation condition and maximum reference dimension

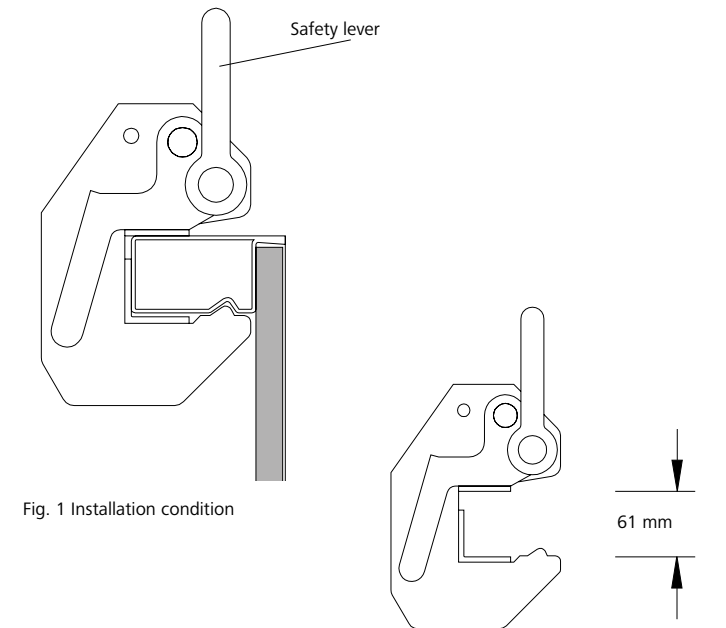


Fig. 1 Installation condition

Fig. 2 Maximum reference dimension

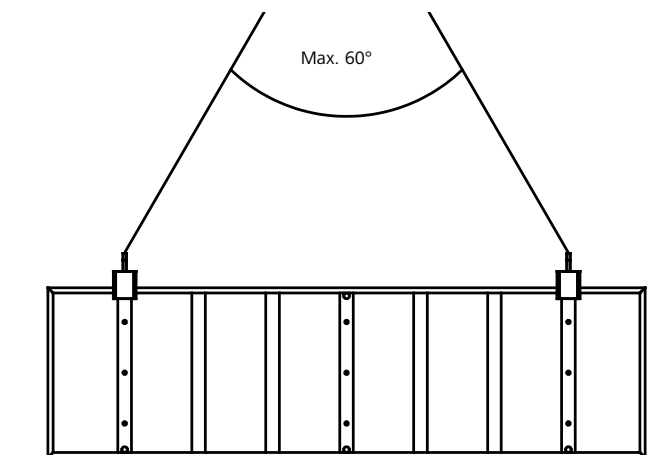


Fig. 3

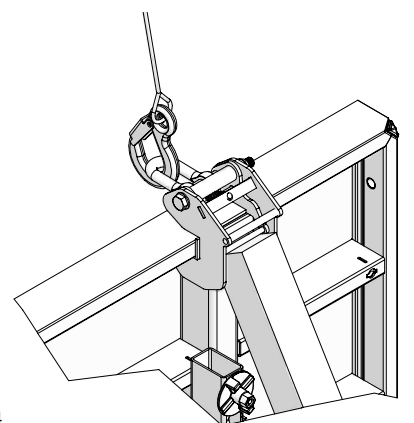


Fig. 4

M Special Crane Hook

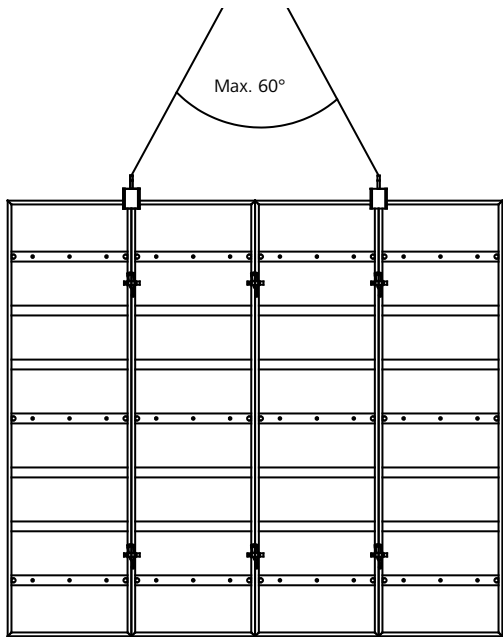


Fig. 5

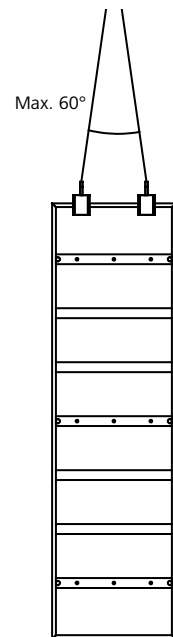


Fig. 6

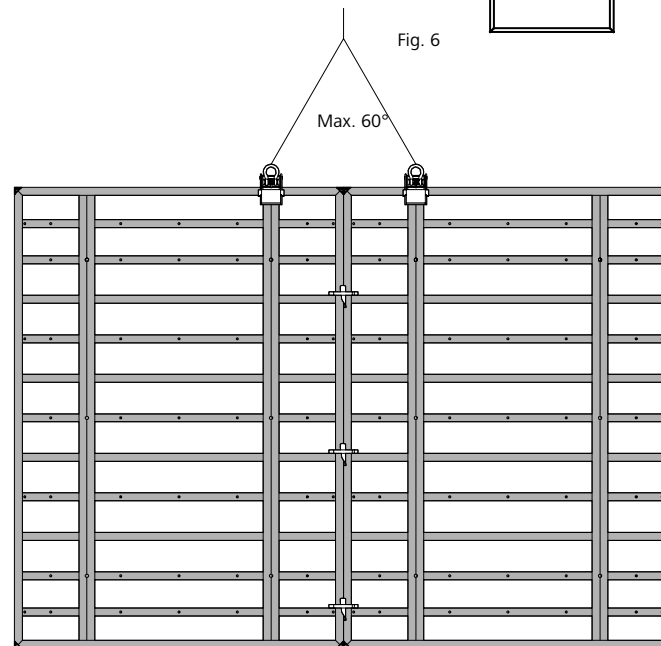


Fig. 7

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 M special crane hook. Ensure that the corresponding safety latch on the load hook is closed.
2. Lift the M special 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 M special 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 M special crane hook must be offset, the lifting tackle shortened or shorter lifting tackle used.

When moving horizontal panels, two M special crane hooks must be attached above the cross stiffeners so that they are symmetrical to the centre of gravity (Fig. 3). Ensure that the opening angle of the crane sling does not exceed 60°.

When moving large-area panels units, every M special crane hook must be attached at a panel joint to prevent it shifting (Figures 5 and 7). 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 M special crane hook will then always accidentally slip out of the formwork, which will then fall to the ground.

Do not remove the M special 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 M special 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 M special 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 M special 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 M special 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 M special 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 (Fig. 8)
- that the inspection plaque is valid

Ensure that the safety mechanism moves easily. The reference dimension must be observed (Fig. 2). If the reference dimension is exceeded, the M special crane hook must be taken out of service and rendered unusable immediately.

Regular inspection



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

6.3. Extraordinary inspection

The M special crane hook must be subjected to an extraordinary inspection performed by a specialist after a case of damage or an exceptional occurrence that could influence the load-bearing capacity as well as after repairs.

6.4. Maintenance

Any contamination such as concrete residue or similar soiling on the M special 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 M special crane hook may only be used in its original condition. MEVA assumes no liability for modified products.

8. Data plate and inspection plaque

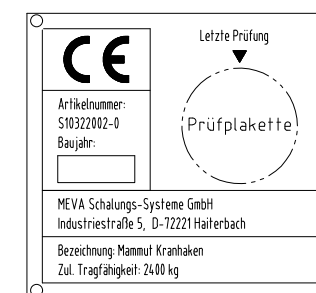


Fig. 8 Data plate



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



Fig. 9 Example inspection plaque

M Special Crane Hook

9. Storage

Ensure that the M special 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 M special 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 other countries 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 M special 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.

Declaration of Conformity for the purpose of the directive 2006/42/EC		meva
Producer	Person based in the community, who is authorised, to collect the relevant technical documentation: Dr. Olaf Leitzbach MEVA Schalungs-Systeme GmbH Industriestrasse 5 72221 Hailerbach GERMANY	
MEVA Schalungs-Systeme GmbH Industriestrasse 5 72221 Hailerbach GERMANY		
states explicitly, regarding the product		
• product description: M-crane hook special • ref.-no.: S10322002-0		
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		
Hailerbach, 2020-11-18 Florian F. Dingler (CEO)		