

Lifting Arm SB

Operating Instructions



MEVA Schalungs-Systeme GmbH

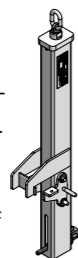
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1. Product description / technical data

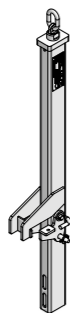
29-603-30 M lifting arm 1750 SB, weight 28.0 kg Galvanized. Use to erect, position and relocate Mammut formwork with the SecuritBasic system installed. Load capacity of each lifting arm = 1750 kg.



The maximum permissible load capacity of the M lifting arm 1750 SB is 1750 kg for each lifting arm with a maximum of two lifting arms for each gang (the maximum weight of the formwork including the SB system is 3,500 kg).

29-603-35 ST lifting arm 900 SB, weight 25.7 kg Galvanized. Use to erect, position and relocate the StarTec formwork with the SecuritBasic system installed. Attached to the formwork by means of flange screw 18.

Load capacity of each lifting arm = 900 kg.



The maximum permissible load capacity of the ST lifting arm 900 SB is 900 kg for each lifting arm with a maximum of two lifting arms for each gang (the maximum weight of the formwork including the SB system is 1800 kg).

2. Preventive measures and safety instructions

2.1. Information about the operating instructions

- You must read the operating instructions carefully before using the lifting arm SB for the first time and make the information provided available to all persons who are authorized to use the lifting arm SB.
- The lifting arm SB may only be used by authorised and trained personnel in accordance with DGUV R 109-017.
- Use the lifting arm SB only for the use described in these operating instructions. Impermissible use of the lifting arm SB can result in damage and in extreme cases to danger to life and limb.
- When using the lifting arm SB, the load must never be subjected to oblique pulling, abrupt lifting or tilting strike during rotation.
- There must be no persons present below and/or on the raised load.
- The lifting arm SB 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 lifting arm SB.
- After 20,000 load cycles under full load, the lifting arm must be taken out of service.

2.2. Information about use

- Before using it for the first time, the lifting arm SB must be inspected in accordance with section 6 of these operating instructions.
- Before each use, visually inspect the lifting arm SB for damage and ensure it is complete, that moving parts are secure and that it functions correctly.
- The lifting arm SB must only be installed at the position provided for this purpose.
- Ensure that the load is distributed evenly.
- During the lifting process ensure that the load attached to the lifting arm SB does not swing to and fro or collide with other objects. 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 lifting arm SB.

Ensure that the necessary personal protective equipment required for the use of the lifting arm SB 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

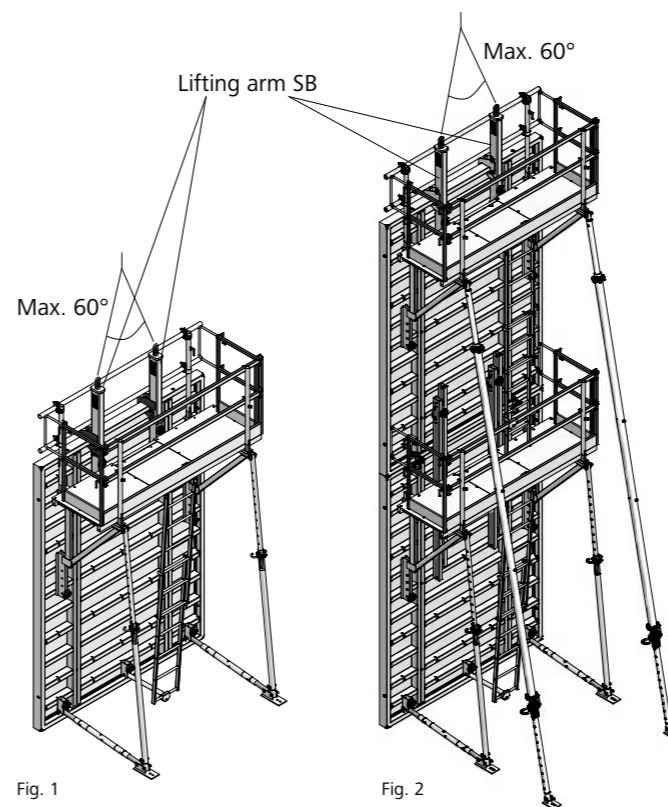
- Secure the scene of the accident
- Provide first aid
- Inform the first-aid officer and the supervisor
- Tend to the injured person(s)

5. Correct use

Only use the lifting arm SB to erect formwork panels (Fig. 1) or formwork panel units (Fig. 2) with the SecuritBasic system (SB system) installed.

The lifting arm SB is also used to position, move and set down upright formwork panels or formwork panel units (ganging). Use the M lifting arm 1750 SB for Mammut XT / Mammut 350 / Mammut formwork and the ST lifting arm 900 SB for StarTec formwork.

Refer to the data plate for the maximum load capacity of each lifting arm SB



Always use two lifting arms SB for each transport unit (Figures 1 and 2). Attach the two lifting arms SB to a 2-rope crane sling with a maximum opening angle of 60° using suitable load hooks.

The lifting arm SB may only be installed by trained personnel who possess the necessary knowledge and skills (in accordance with the applicable national regulations).

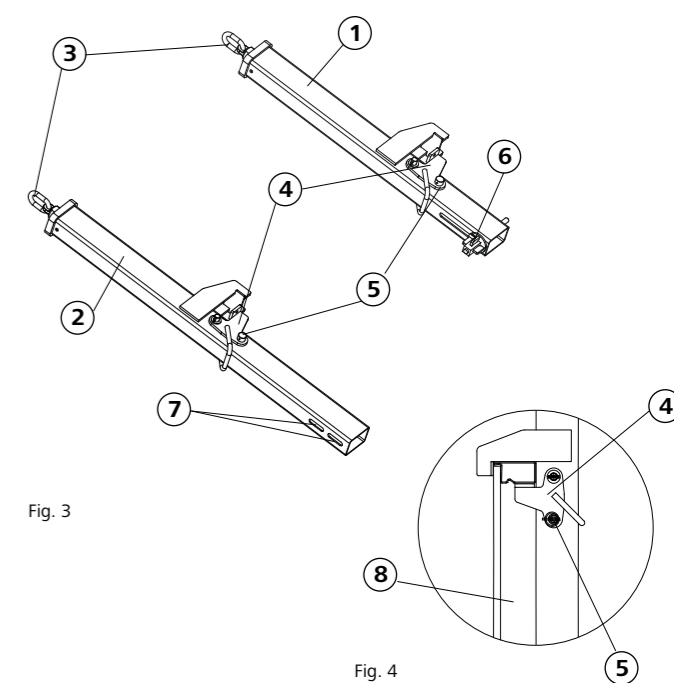
When raising horizontal formwork units, ensure that the formwork is on the ground (Figures 5 and 6)!

Only material that is in perfect condition may be used. Ensure that damaged parts cannot be reused. Only original MEVA parts may be used as spare parts or accessories.

5.1 Installing the lifting arm

1. Remove the cotter pin and the head bolt (5) from the clamp (4) of the lifting arm (Figures 3 and 4); the clamp drops down.
2. Suspend the lifting arm SB over the frame of the panel. On vertical formwork the lifting arm must be attached to the side profile (Fig. 7).
3. Rotate the clamp (4) upwards under the frame profile and secure it with the head bolt and the cotter pin (5).
4. The M lifting arm 1750 SB (1) must be bolted to a multi-function nut on the formwork using the integrated bolt (6), and the ST lifting arm 900 SB (2) must be secured using a separate flange screw 18 (7) (Ref. no. 29-401-10) (Figures 5 and 6)!

Tighten the bolt firmly with a hammer! The lifting arm must be firmly secured!



- ① M lifting arm 1750 SB
- ② ST lifting arm 900 SB
- ③ Attachment eyelet
- ④ Clamp
- ⑤ Head bolt with cotter pin
- ⑥ Integrated bolt on the M lifting arm 1750 SB
- ⑦ Opening for flange screw 18 on the ST lifting arm 900 SB
- ⑧ Formwork panel

Important

Before installing the lifting arm SB, inspect the formwork panel for damage. Profiles and welds in the area where the lifting arm SB is attached must be free of damage. Furthermore, the attachment points on the panels must be free of contamination.

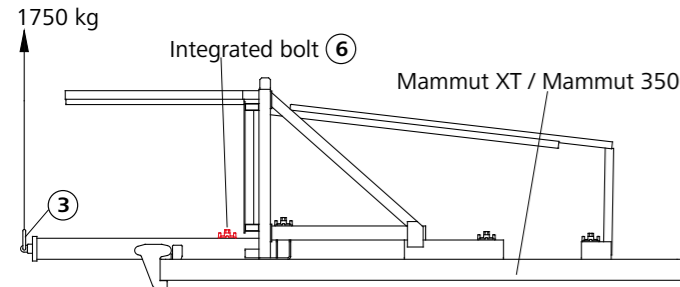


Fig. 5 M lifting arm 1750 SB

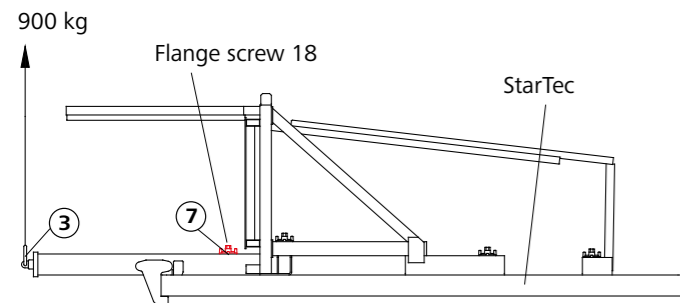


Fig. 6. ST lifting arm 900 SB

5.2 Avoidable misuse

- Ensure that the attachment eyelet is mounted flush against the contact surface.
- Check whether the attachment eyelet and the clamp move freely and smoothly.
- Exceeding the permissible loading can result in excessive elongation and thus permanent deformation. In this case, the lifting arm must be taken out of service.
- Ensure that the head bolt and the cotter pin are attached to the clamp and undamaged.



Persons must never be present on the work platforms, nor should objects be placed on these, when the work platforms are to be relocated.

In all phases of use



- Injuries to hands and fingers can occur due to the sharp edges of the lifting arm SB.
- The working platform can strike you or other persons.

5.3 Crane ganging

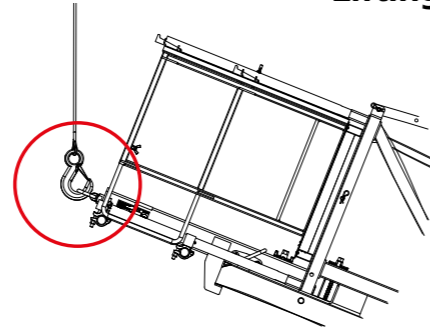


Attach the load hook to the attachment eyelet (3) on the lifting arm SB so that it cannot slide out of the eyelet when a rope or chain is slack. To do this, insert the tip of the hook through the eyelet from the formwork side to the platform side (Fig. 7).

1750 kg for the M lifting arm 1750 SB
900 kg for the ST lifting arm 900 SB

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Fig. 7



6. Inspection and maintenance

6.1 Inspection before first use

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

6.2 Inspection

The lifting arm SB 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 lifting arm SB 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 lifting arm SB, inspect the working platform for damage. Profiles in the area where the lifting arm SB is attached must be free of damage. Furthermore, the attachment point on the formwork panel must be free of contamination. Any necessary repairs must be performed by MEVA.



During use of the lifting arm SB, the following must be observed:

- Any contamination such as concrete residue or similar soiling on the lifting arm must be completely removed.
- Ensure that the attachment eyelet is secure.
- The lifting arm must not be used in the event of damage (cracking, deformation), in particular to the attachment eyelet and chain links.
- Reductions in the cross section of the attachment eyelet are not permitted.
- The lifting arm SB must not be used if corrosion is detected!

Ensure that the material used is always in perfect condition. Ensure that damaged parts cannot be reused. Only original MEVA parts may be used as spare parts or accessories.

6.3 Extraordinary inspection

According to DGUV R 109-017, the lifting arm SB 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 lifting arm SB must be completely removed.

7. Repairs

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

8. Data plates and maximum load capacity

MEVA Schalungs-Systeme GmbH Industriestraße 5 D-72221 Haiterbach	CE	Letzte Prüfung
Bezeichnung: M-Hubarm 1750 SB	Identnummer	Prüfplakette
Tragfähigkeit: 1750 kg	Baujahr	
Eigengewicht: 28 kg Artikelnummer: 29-603-30		
Betriebsanleitung beachten!		

Fig. 8 Data plate of M lifting arm 1750 SB

MEVA Schalungs-Systeme GmbH Industriestraße 5 D-72221 Haiterbach	CE	Letzte Prüfung
Bezeichnung: ST-Hubarm 900 SB	Identnummer	Prüfplakette
Tragfähigkeit: 900 kg	Baujahr	
Eigengewicht: 25.7 kg Artikelnummer: 29-603-35		
Betriebsanleitung beachten!		

Fig 9 Data plate of ST lifting arm 900 SB



The lifting arm SB must not be used if the inspection plaque is missing or illegible (Fig. 10). Any necessary repairs must be performed by MEVA.



Fig. 10 Example inspection plaque

Declaration of Conformity for the purpose of the directive 2006/42/EC		
Producer	Person based in the community, who is authorised, to collect the relevant technical documentation:	
MEVA Schalungs-Systeme GmbH Industriestraße 5 72221 Haiterbach GERMANY	Dr. Olaf Leitzbach MEVA Schalungs-Systeme GmbH Industriestraße 5 72221 Haiterbach GERMANY	
states explicitly, regarding the product		
<ul style="list-style-type: none"> product description: M-lifting arm 1750 SB ref.-No.: 29-603-30 		
which this declaration refers to, the appropriate regulations of the following EC-directive are considered:		
<ul style="list-style-type: none"> 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:		
<ul style="list-style-type: none"> 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

Florian F. Dingler

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(CEO)

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9. Storage

The lifting arm is to be set down in such a way that nothing can fall over, fall off or slip off. Ensure that the lifting arm SB 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 lifting arm SB 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 lifting arm SB 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		
Producer	Person based in the community, who is authorised, to collect the relevant technical documentation:	
MEVA Schalungs-Systeme GmbH Industriestraße 5 72221 Haiterbach GERMANY	Dr. Olaf Leitzbach MEVA Schalungs-Systeme GmbH Industriestraße 5 72221 Haiterbach GERMANY	
states explicitly, regarding the product		
<ul style="list-style-type: none"> product description: ST-lifting arm 900 SB ref.-No.: 29-603-35 		
which this declaration refers to, the appropriate regulations of the following EC-directive are considered:		
<ul style="list-style-type: none"> 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) 		
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