EN

LISSMAC
CONSTRUCTION TECHNOLOGY

# OPERATING MANUAL
# MASONRY PLATFORM

MAB 2002
MAB 2802
MAB 3002

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**Legal notice**

The operating manual is valid for:
LISSMAC MAB work platform:

MAB 2002

MAB 2802

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# 1. FEATURES & ADVANTAGES

With the LISSMAC masonry work platforms, trend-setting standards are set in terms of economic efficiency, cost savings and ease of operation. The MAB provides support for workers enabling them to complete their work ergonomically. Due to its short set-up times, it can be used very flexibly.

Base frame, scissors and the platform are hot-dip galvanised

The platform length can be extended by 1 m by means of three identical pull-outs on the right and on the left

Non-slip aluminium chequered plate surface

Automatic phase inverter as standard

Low net weight

Flexible foot switch as standard

Minimum set-up time for the platforms - simple and efficient

Double-action hydraulic cylinder with safety valve

Excellent weight distribution due to the base frame being supported in full

Quick plug-in wheel set optionally available - for easy moving of the platforms

Electrical control box, with extra 400 V connection for the additional connection of up to two further platforms

Warning information and symbols in this Manual

**SIGNAL WORD**

**Type and Source of Danger**

Consequences if not observed

- ➢ Measures to prevent the hazard

**The signal word after the hazard symbol indicates the level of danger:**

**DANGER** This indicates an extremely dangerous situation. If the situation is not avoided, it will likely result in fatal injuries.

**WARNING** This indicates a potentially dangerous situation. If the situation is not avoided, it may result in fatal or serious injuries.

**CAUTION** This indicates a hazardous situation. If the situation is not avoided, it may result in moderate or minor injuries.

**NOTICE** This signal word indicates a situation that involves hazards for objects. If the situation is not avoided, it may result in property damage. The signal word is used without a hazard symbol.

Important information is marked with an "i".

Requirement for the operator to take action:

The specific sequence of steps facilitates the proper and safe handling of the machine.

- Instructions for the operator

1. Instructions for action in a given order

The warning notes contained are not exhaustive.

Lissmac cannot predict every possible hazard.

The suitable safety rules and precautions are to be followed as with any other machine, in regards to the working method and operation.

# WARNING AND SAFETY INSTRUCTIONS:

| | | | |
|---|---|---|---|
|  | Read the operating manual |  | Marking the danger zone |
|  | Wear work gloves |  | Do not use high pressure cleaners |
|  | Wear protective helmet |  | No access and no use by unauthorised persons |
|  | Disconnect the mains plug before working on the appliance. |   | Sound-power level of the machine |
|  | Lifting point |  | Lashing point |
|  | Electric shock warning |  | Instruction for damage prevention. |
|  | Warning of danger of falling |  | Visual check |
|  | Danger of crushing |  | Spray-on grease |
|  | Warning of suspended loads |  | Grease gun |
|  | Danger due to high electric voltage |  | Forklift transport bags |
|  | Danger of crushing in the area of the lifting scissors - Do not enter area |  | Attachment point for crane transport and lashing point |
|  | Danger of crushing in the foot area - keep your distance |  | Lift platform |
|  | Danger of crushing - Set the maintenance supports before entering. |  | Lower platform |

# OPERATING INSTRUCTIONS

**Preface**

This Operating Manual should make it easier to become familiar with the machine and facilitate its use in accordance with its intended possible applications.

The Operating Manual contains important information on how to operate the machine in a safe, proper and economical manner. Compliance with it will help to avoid dangers, repair costs and downtimes and increase the reliability and service life of the machine.

The operating manual is to be supplemented by instructions on the basis of existing national regulations on accident prevention and environmental protection.

The operating manual must be available at the location of the machine at all times.

The operating manual must be read and applied by every person who is commissioned with work on the machine e.g.:

operation, including set-up, troubleshooting in the workflow, removal of production waste, care, disposal of operating and auxiliary materials, maintenance (servicing, inspection, repair) and/or transport.

In addition to the operating manual and the binding regulations for accident prevention which apply in the user's country and at the place of use, the acknowledged rules for safe and correct working practice must also be observed.

**Changes and reservations**

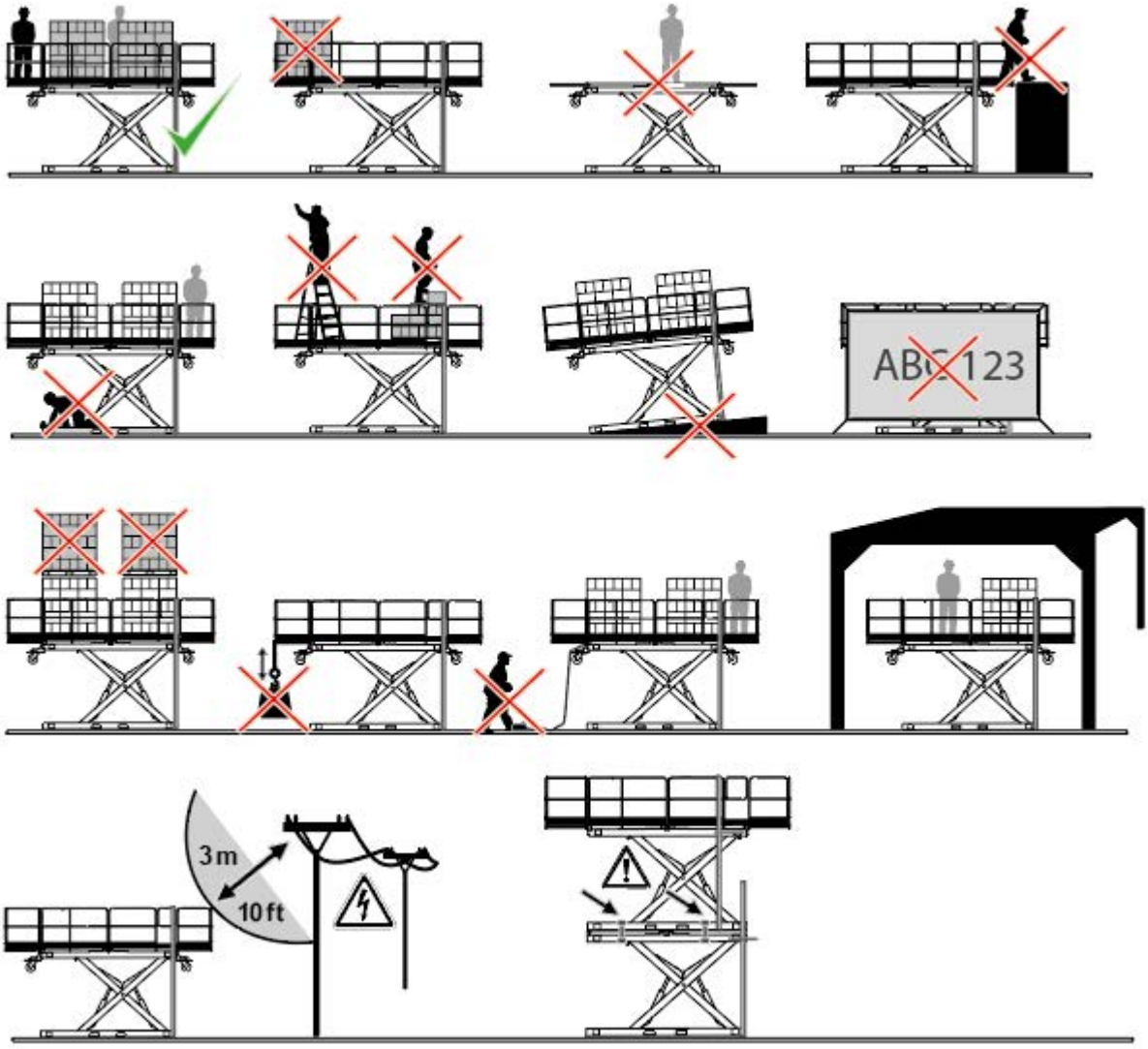
We have taken every effort to ensure that this operating manual is correct and up to date. In order to maintain our technological lead, it may be necessary to make modifications to the product and to its operation without notice. We accept no liability for faults, downtime and resulting damage.

**Target Group**

These operating instructions are intended for semi-skilled and trained personnel in the fields of structural mechanics, building construction and civil engineering.

1.1. Purpose; intended use

| | |
|---|---|
| | The manufacturer and supplier do not accept any liability for incorrect or non-intended use. Any modification to the machine not carried out by the manufacturer is forbidden. Modifications in the form of additions or conversions may only be completed with the written consent of the manufacturer. |
| | The machine is built according to the state of the art and the recognised safety-related rules. Its use can, nevertheless, result in hazards for life and limb of the user or third persons, as well as damage to the machine and other material assets. |
| | The machine must only be used if it is in technically perfect condition and for its intended use, with an awareness of safety and potential dangers and as set out in the operating manual. In particular, always resolve faults which may impair safety, or have them resolved, immediately. |
| **Intended Use** | The LISSMAC bricklayer's work platform (MAB) is intended exclusively for lifting and lowering persons and building materials in building construction by trained persons.<br>The MAB is used for stepless adjustment of the working height for a maximum of 2 workers per platform and lifting of stone packages and work equipment up to the permissible total load.<br>The MAB may only be used on level, paved ground or floor slabs with sufficient load-bearing capacity.<br>Moving is only permitted via the marked lifting points and forklift pockets with suitable equipment.<br>The MAB may only be moved horizontally, empty and in the lowered position with the LISSMAC wheel set in the working area.<br>Any use other than this will be deemed unintended.<br>Intended use also includes observing the operating instructions and complying with the inspection and maintenance intervals. |
| **Improper Use** | Foreseeable misuses / non-intended use:<br>The use as a lift for access from higher floors<br>The use as a support for a building or other structure<br>The use as a lifting device for suspended loads<br>Exceeding the approved load capacity<br>Operation from outside the platform<br>Placing building materials on the side pull-outs<br>Working with the work platform on a gradient<br>The use under a building structure with possible ceiling contact at maximum lifting height<br>Use as a work platform without safety gear to prevent falls<br>The use of any elements to increase the reach or working height<br>Any stay under the lifting platform (except for servicing when the platform is empty and the outrigger is installed).<br>The assembly and use on mobile means of transport of any kind<br>Connecting the working platforms of two adjacent platforms via planks or similar.<br>Use in potentially explosive atmospheres<br>The attachment of banners or large-area elements to the working platform.<br>Operating in the immediate vicinity of overhead power lines<br>The one-sided loading of the platform<br>The use of the platform during thunderstorms and winds above 10 m/s<br>Entering or leaving the platform from anywhere other than the access in the lowered state<br>Climbing the platform<br>Loading the platform in the raised position<br>The use of the ladder separately from the working platform |


3 m
10 ft

1.2. Organisational measures

| | |
|---|---|
| | Always keep the operating instructions within easy reach at the place of use of the masonry work platform. |
| | In addition to the operating instructions, observe and instruct generally applicable legal and other binding regulations for accident prevention and environmental protection.<br>Such obligations may also concern, for example, the handling of hazardous substances or the provision/wearing of personal protective equipment or road traffic regulations. |
| | The personnel entrusted with work on the work platform must have read and understood the operating manual, particularly the section entitled Safety information before starting work. It is too late to do so during work. This particularly applies to personnel who only work on the machine occasionally, for example personnel involved in setting and maintaining the work platform. |
| | Regularly check that personnel are aware of safety and hazards and that they comply with the operating instructions. |
| | Use the required or prescribed personal protective equipment. |
| | Observe all safety and danger instructions on the masonry work platform. |
| | Keep all safety and danger notices on/at the masonry work platform complete and in legible condition. |
| | In the event of safety-relevant changes or operating behaviour, shut down the machine immediately and report the fault to the responsible office/person. |
| | Do not make any modifications to the masonry work platform without the written consent of the supplier. |
| | Only use original spare parts from the manufacturer. |
| | Observe the prescribed inspection intervals or those specified in the operating instructions.<br>An annual inspection must be carried out by an expert. |
| | Machines and components must be cleaned thoroughly before the inspection. |
| | The annual inspection of the work platform must be documented in writing. If a base frame is used, this must also be checked. |
| | The mains plug must be removed from the power supply before starting any maintenance or repair work. |
| | The work platform must be secured to prevent possible lowering during any repair or maintenance work (danger of crush injuries). |
| | After any lengthy period of non-use, a function test must be carried out (hydraulic oil level, leaks from the cylinders and hydraulic screw unions). |
| | When working on the work platform, it must be ensured that no items can fall off it. |

## 1.3. Choice of personnel and qualification; fundamental obligations

| | |
|---|---|
| | Only people who are at least 18 years of age have received training in operating the work platform and have been expressly commissioned with controlling the work platform are allowed to operate the platform on their own. |
| | Unnecessary standing on or under the masonry work platform is prohibited. |
| | Operators must ensure that whenever they move the work platform it will not endanger them or anybody else. |
| | Work on the electrical equipment on the machine may only be carried out by an electrician or by trained personnel under the management and supervision of a electrician and in compliance with the electronic regulations. |
| | Only allow personnel being trained, instructed or those completing an apprenticeship to work on the machine under the constant supervision of an experienced person. |

## 1.4. Safety information relating to specific phases of use

### 1.4.1. Erection

| | |
|---|---|
| | The work platform must be placed on a clean, level, load-bearing surface (minimum load capacity 1000 kg/m²). |
| | The masonry work platform must not be used on a slope. |
| | The masonry work platform must be kept away from live electrical overhead lines. |
| | Collisions with fixed structures must be avoided. |
| | Lay cables protected as far as possible. Do not run over, do not bend, protect against falling objects. |
| | For use under a building structure, 0.5 m clearance must be left above the railing or highest point (material) at maximum lifting height. |
| | Do not connect the work platform to the power supply without a residual-current circuit-breaker (RCCB) in the power cable. The circuit breaker must be designed for 3 x 16 A to prevent overcurrent. |

### 1.4.2. Normal operation

| | |
|---|---|
| | Never use in any risky way. |
| | Take measures to ensure that the masonry work platform is only operated in a safe and functional condition and used with the designated guardrails as fall protection. |
| | Check the work platform at least once per shift for external signs of damage and defects. Report any changes that have occurred (including operating behaviour) immediately to the responsible office/person. If necessary, stop the machine immediately and secure it against being switched on again. |
| | In case of malfunctions, immediately stop and secure the masonry work platform.<br>Have faults eliminated immediately. |

| | |
|---|---|
| | The work platform must not be overloaded. Observe the permissible load.<br>Loading may only be carried out in the lowered position. |
| | For a side pull-out, the permissible load capacity is 150 kg. This serves purely as a walking surface and is not intended for placing loads on. |
| | The range or working height must not be extended by additional scaffolds or ladders. |
| | The ladder may only be used on the bricklayer's work platform with ladder guide and support. |
| | The masonry work platform may only be exited via the emergency exit (ladder) when raised. Entering or leaving the raised masonry work platform is prohibited. |
| | The work platform must not be used as a crane. |
| | Do not enter the working area under the raised work platform |
| | Collisions with fixed structures must be avoided. |

1.4.3. Restarting after a lengthy downtime

| | |
|---|---|
| | After the machine has undergone a lengthy downtime, the following points checked before restarting it stop<br>Checking all electrical cables and actuators for function and damage<br>Checking all hydraulic lines and components for damage and tightness<br>Checking the oil level<br>Check frame for corrosion, deformation and cracks in the welds<br>Function control lifting and lowering |

1.4.4. Special work within the scope of machine use and maintenance activities, as well as troubleshooting in the workflow;

| | |
|---|---|
| | Keep to the setting, maintenance and inspection work and intervals specified in the operating manual including the details for replacing parts/ part equipment. This work must be carried out by trained personnel. |
| | Inform operating personnel before beginning any special or repair work. Appoint a supervisor. |
| | When the work platform has been shut down completely for maintenance and repair work, it must be secured to prevent it being switched on again unexpectedly. |
| | Before cleaning the machine with water or other cleaning products, cover/mask all openings into which no water, steam or cleaning product may ingress for safety and/or function reasons, with the electric motor, switches and plug connectors particularly at risk. |
| | Remove the covers/adhesive tape completely after finishing the cleaning work. |
| | Always fasten screw connections securely after maintenance and repair work. |
| | If safety devices must be dismounted for preparation, repair or maintenance of the machine, they must be mounted and inspected immediately after the duties have been terminated. |
| | Ensure safe and environmentally friendly disposal of operating and auxiliary materials as well as replacement parts. |

## 1.5. Note relating to special types of danger

### 1.5.1. Electrical power

| | |
|---|---|
| | Only use original fuses with the prescribed amperage.<br>In case of malfunctions in the electrical power supply, switch off the masonry work platform immediately. |
| | Only carry out maintenance or repair work when the masonry work platform is disconnected from the power supply. |
| | Regularly inspect and test the electrical equipment of the machinery. Defects such as loose connections or damaged cables must be remedied immediately. |
| | A maximum of 3 platforms may be connected to one supply line. |
| | Do not use near live overhead power lines.<br>The MAB must not be used during thunderstorms. |

### 1.5.2. Noise

| | |
|---|---|
| | The emission sound pressure at the operator station is 70 dB(A). |

### 1.5.3. Risk of falling

| | |
|---|---|
| | The masonry work platform may only be used with a ladder as an emergency descent option.<br>We always recommend to use the working platform only with a railing.<br>The guardrail must be used in accordance with the specifications of the nationally and locally responsible supervisory authorities for occupational health and safety and construction site safety.<br>The specifications may vary depending on the country, the competent authority and the local conditions of the construction site. |
| | Increasing the reach or working height with objects of any kind is prohibited. |

### 1.5.4. Wind force

| | |
|---|---|
| | It is forbidden to attach parts of any kind that would increase the area exposed to the wind on the masonry work platform. |
| | In case of strong wind forces above 10m/sec) or approaching thunderstorms, the masonry work platform must be lowered and left immediately. |

## 1.6. Transport

| | |
|---|---|
| | Transport may only take place when the masonry work platform has been lowered and all guardrail elements have been dismantled. |
| | When moving the masonry work platform, a four-man hanger with sufficient load-bearing capacity must be used. No persons or material may be on the masonry work platform during the entire lifting process. |

| | |
|---|---|
| | Appoint an expert instructor for the hoisting work. |
| | Only lift and lash the masonry work platform properly with lifting gear at the marked crane eyes in accordance with the operating instructions. |
| | Only use a suitable transport vehicle with an adequate load capacity. |
| | Secure the load properly. Use crane eyes as attachment points. |
| | The machine must be disconnected from the mains even if it is moved slightly. |
| | When recommissioning, proceed only in accordance with the operating instructions. |
| | Observe national road traffic regulations. |
| | Avoid collisions with solid structures, vehicles or other items. |

## 1.7. Packing and Storage

| | |
|---|---|
| | Check the machines for signs of damage when you receive it. The machine may not be operated in case of damage. Damaged cables and plug connectors also pose a safety risk and must not be used. In this case notify the manufacturer immediately.<br>If the machine is not operated immediately after unpacking, it must be protected from moisture and dirt. |

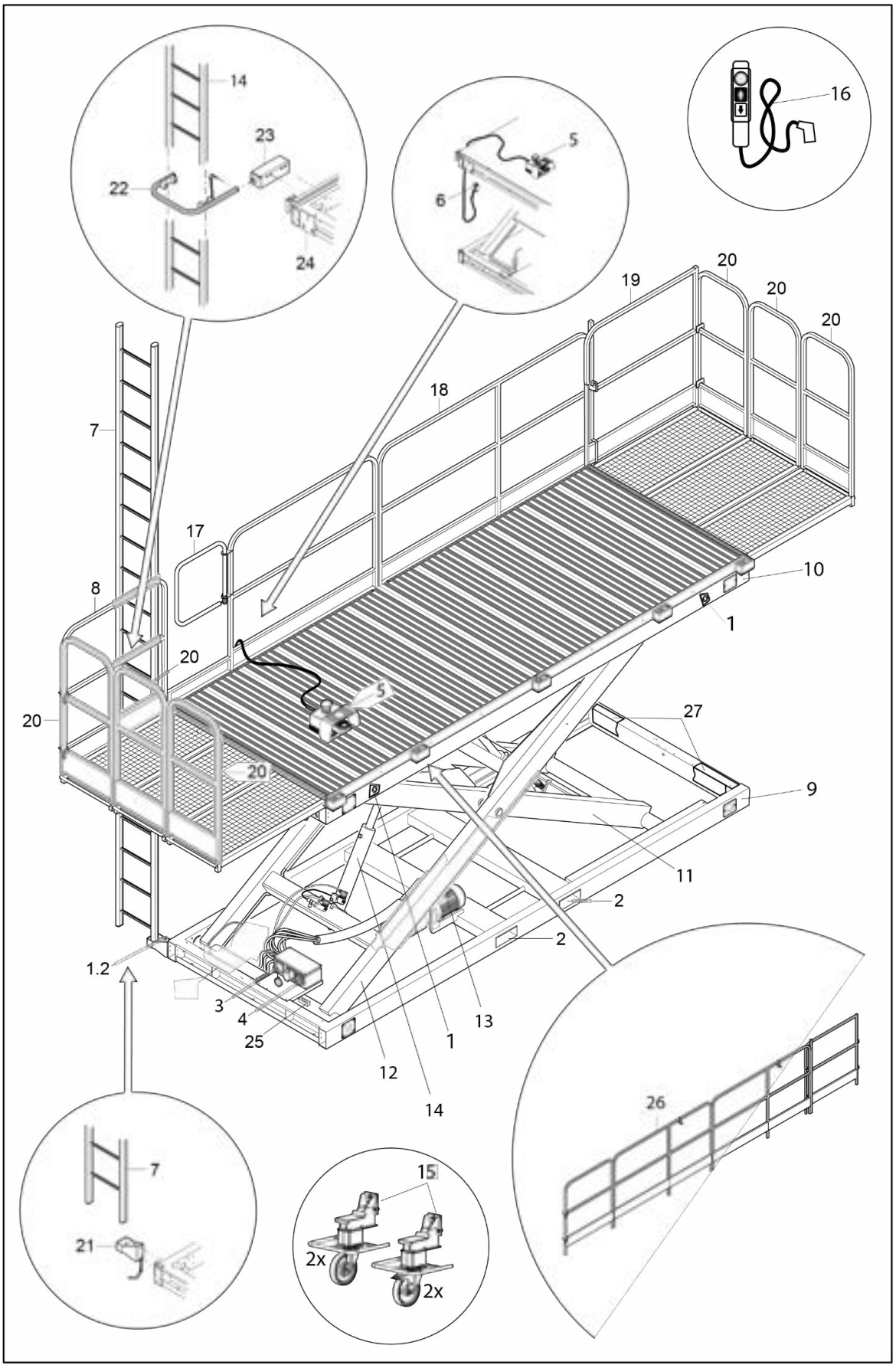
## 1.8. Environmental protection

| | |
|---|---|
| | Packaging material, cleaning agents, used or remaining operating supplies, and unwrapped wear parts, such as drive belts or engine oils, must be recycled in accordance with local environmental regulations. |

## 1.9. Disposal

| | |
|---|---|
| | When the machine reaches its end of life, particularly if it starts to malfunction, it must be rendered inoperable.<br>Dispose of the machine in accordance with the environmental regulations that apply in your country.<br>Electrical waste must not be dumped in general waste. |

# 2. MACHINE DESCRIPTION



| | |
|---|---|
| Pos. 1 | Anchor point / lashing point (4x) |
| Pos. 2 | Forklift receptacles |
| Pos. 3 | Socket from power connection (phase reversal plug) |
| Pos. 4 | Main switch |
| Pos. 5 | Foot switch with EMERGENCY STOP |
| Pos. 6 | Socket for the foot switch |
| Pos. 7 | Head |
| Pos. 8 | Railing element (fixed) |
| Pos. 9 | Frame, bottom |
| Pos. 10 | Frame, top |
| Pos. 11 | Scissors inside |
| Pos. 12 | Scissors outside |
| Pos. 13 | Hydraulic unit |
| Pos. 14 | Hydraulic cylinder |
| Pos. 15 | Wheel set (optional) |
| Pos. 16 | Hand control unit (optional) |
| Pos. 17 | Railing element with access |
| Pos. 18 | Railing element |
| Pos. 19 | Railing element (adjustable) |
| Pos. 20 | Railing element (pull-out) |
| Pos. 21 | Ladder attachment |
| Pos. 22 | Ladder guidance |
| Pos. 23 | Ladder holder |
| Pos. 24 | Mounting plate wheelset |
| Pos. 25 | Spirit level |
| Pos. 26 | Railing element (optional) |
| Pos. 27 | Maintenance supports |

## 2.1. Accessories

Wheel kit

Underframe UG250

Hand control unit

with holder for railing

## 2.2. Technical data

| | MAB 2002 | MAB 2802 | MAB 3002 |
|---|---|---|---|
| Platform length | 3.1 m | | 4.1 m |
| Length with extended walkways left/right | 5.05 m | | 6.05 m |
| Width total/platform | 1.62 m / 1,5m | | |
| Lifting height | 0.49 - 1.99 m | | 0.57 - 2.99 m |
| Lifting speed | 1.5 m/min | 1.8 m/min | 2.1 m/min |
| Drive unit | Electric / Hydraulic | | |
| Max. Load capacity | 2000 kg | 3000 kg | |
| Drive rating | 1,1 kW | 2,3 kW | |
| Voltage | 400 VAC / 4.7 A<br>230 VAC / 8.1 A | 400 VAC / 7.5 A<br>230 VAC / 13 A | |
| Width of pull-out section | 0.5 m | | |
| Length of pull-out section | 1 m | | |
| Max. Load per pull-out | 150 kg | | |
| Weight | 960 kg | 998 kg | 1240 kg |
| Underframe UG 250 | Height max. 2.5 m | | |
| max. height with UG 250 | 4.5 m | | 5.5 m |
| Persons on platform | Max. 2 | | |

We reserve the right to make changes to the technical data given here without prior notification.

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## 2.3. Sound power level

The emission sound pressure at the operator position (on the platform) is $_{LpA}$ 70 dB(A)

# 3. TRANSPORT

**WARNING**

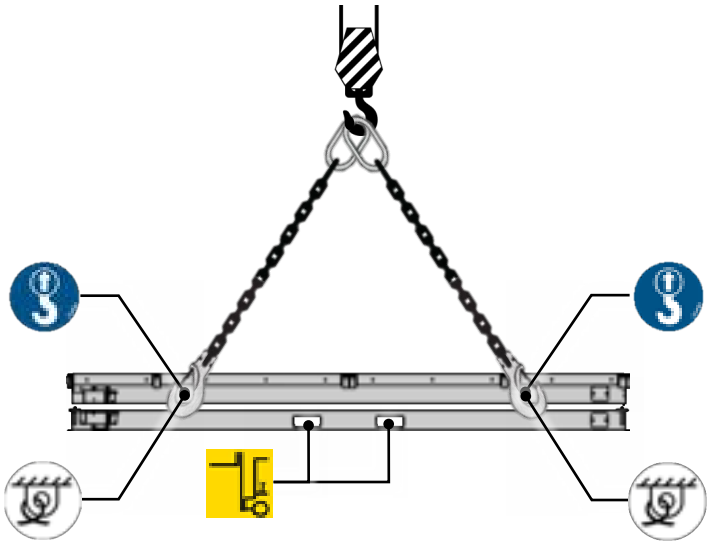
**Swinging loads**

Personal injury or damage to property may result from falling parts.

- No transport with persons or objects on the platform.
- Lower the masonry work platform completely for transport
- Lift platform only empty and swept clean
- Dismantle all railing elements
- Lift only at the marked crane eyes and only with suitable lifting gear.
- Do not step under suspended loads.

**Transport position**

- Bricklayer's working platform is completely lowered.
- Power supply is unplugged.
- Masonry work platform is unloaded and swept clean.
- Wheelset is dismantled.
- All walkways are pushed in and secured.
- Ladder and all railing elements are dismantled.
- Foot or hand control are dismantled.



**Transport with forklift truck/teleloader**

Lift masonry work platform only via marked forklift pockets.

**Transport with construction crane**

Lift masonry work platform only with 4-piece hanger and only at marked attachment points.

**Transport on truck**

Only lash the masonry work platform with suitable lashing materials and only at marked attachment points.

# 4. COMMISSIONING

## 4.1. Installing the masonry work platform

**⚠ WARNING**

**Falling and crushing hazard due to overturning of the machine**

On unsuitable surfaces, the machine can fall over, sag or tilt and cause serious injuries.

- The masonry work platform may only be parked on horizontal and fixed ground (minimum load capacity 1,000 kg/m²).
- Minimum quality of floor slab or ceiling C 20/25 (B25) with reinforcement according to DIN 1045

**⚠ WARNING**

**Personal injury due to improper use**

If the pull-outs are only partially extended, it is possible to fall through the open gaps.

- On the side without railings, the distance to the wall must not be greater than **10cm.**
- Working with only partially extended pull-outs is prohibited!
- Where the ladder cannot be mounted correctly due to lack of clearance height, the MAB must not be used.

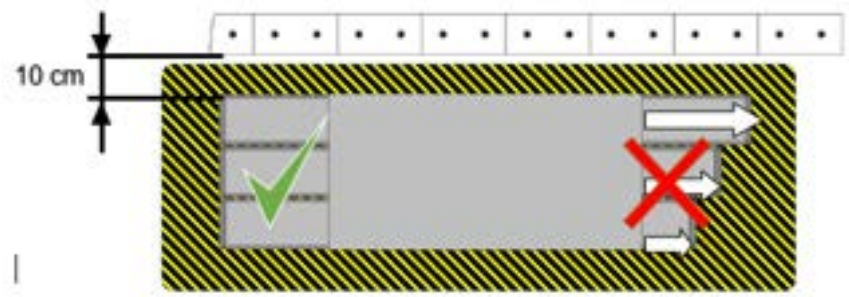
**⚠ WARNING**

**Danger of electric shock**

Damaged power lines can result in severe to fatal electric shocks.

- Check the supply cable for damage before connecting it.
- Lay out the supply line in a protected manner.
- Consider hazards from standing water, roadways and falling objects.

The area around the working platform must be cordoned off if it cannot be ruled out that untrained persons can get near the working platform.

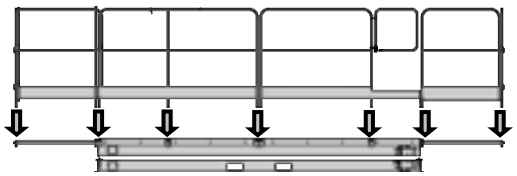



The horizontal installation can be checked with the built-in spirit level on the frame.

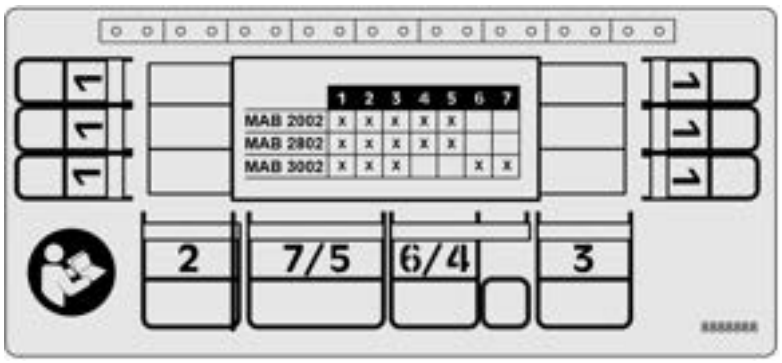
## 4.2. Attachment of railings

All railing elements must be dismantled for transport.

The railing elements are inserted completely into the railing holders on the frame from above.



**Overview of the railing elements:**




## 4.3. Controls

**Standard:**

**Foot switch with emergency stop function**

The masonry work platform can be raised and lowered via the foot switch. The foot switch must be placed on the platform of the masonry work platform.

**Available as an optional extra:**

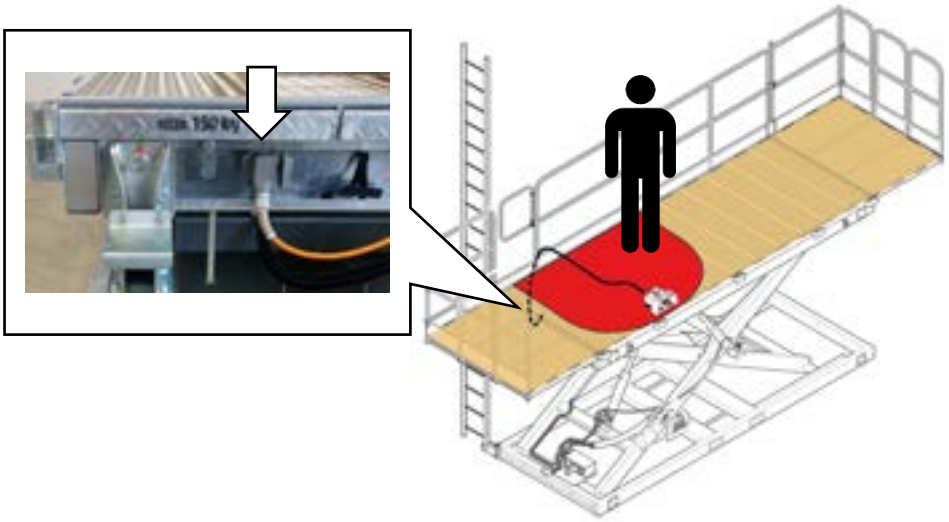
**Manual control with emergency stop function**

The masonry work platform can be raised and lowered via the manual control. The hand control is inserted into a special holder on the bricklayer's working platform.

## 4.1. Connect control element

The control element of the MAB must always be ON the platform.

Control from outside the platform is not permitted!



**Workfow** Plug the connector into the front of the platform and place the foot switch on the platform.

## 4.2. Attachment of the emergency descent ladder

The working platform can be entered and left from the ground via the door in the regular lowered position.

**WARNING**

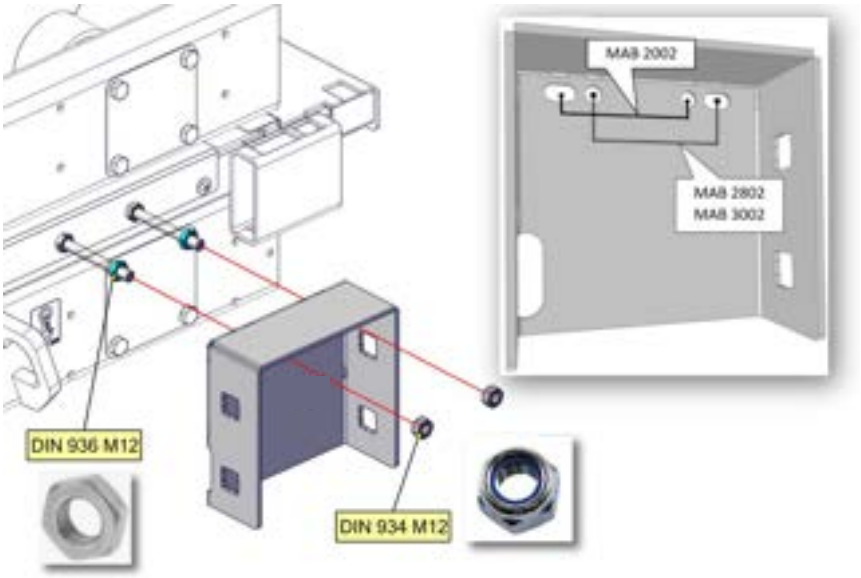
**Risk of falling**

An unsecured or defective ladder guide can cause the operator to fall when in use

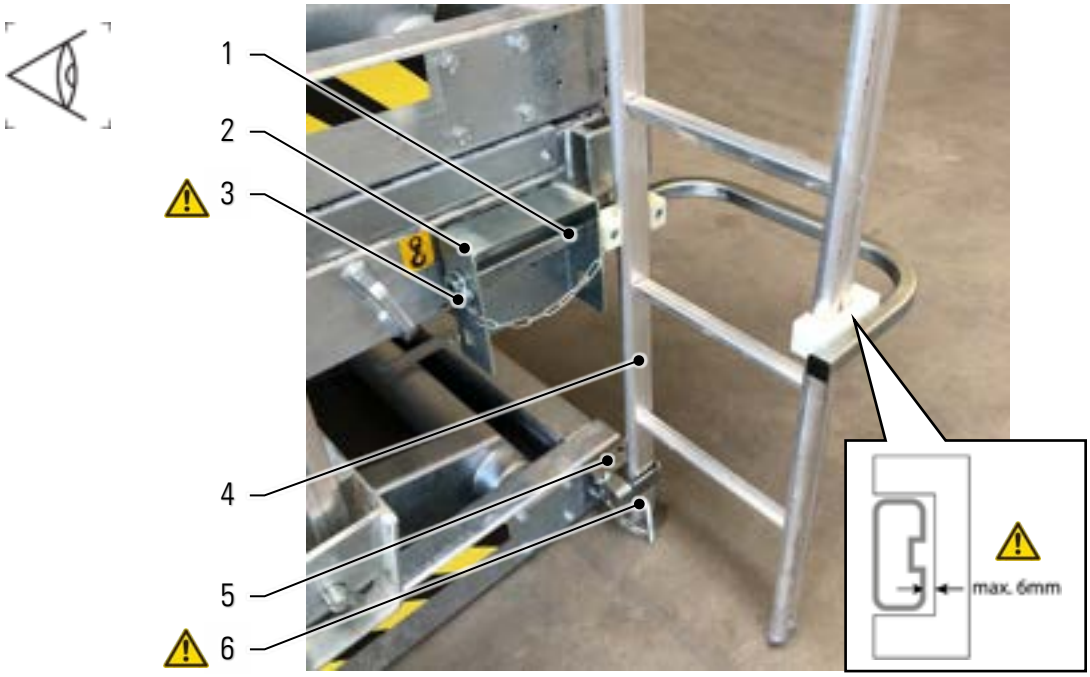
- At the beginning of the shift, check the ladder guide for damage and correct fit.

**Workflow**

1. Screw the ladder guide to the frame as shown.




2. Insert ladder guide (Pos.1) into ladder holder on working platform (Pos.2) and secure with linch pin (Pos.3)
3. Insert ladder (pos.4) into ladder attachment on work platform (pos. 5) and secure with pin (pos. 6).
4. Check lateral play of the ladder guide on the retaining bracket. (max. 6 mm)




The guide of the emergency ladder must not have more than 6 mm clearance to the ladder rail.

In case of wear or damage, replace affected parts before use.

**Electrical Connection**

The power source must correspond to the operating voltage indicated on the type plate (400V or 230V) and must have a fuse (FI/RCD).

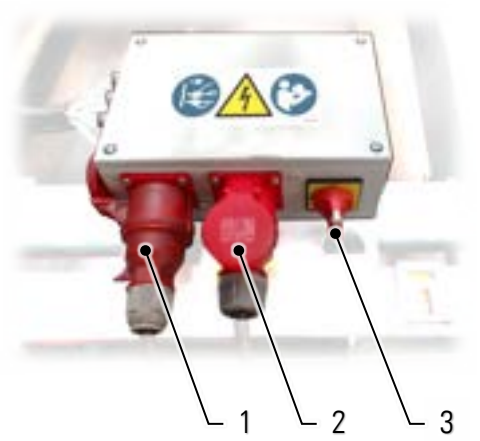
This protective device must be tested for function before starting work.

The mains disconnection device is the CEE plug.

**Linkage**

Up to three further MABs can be linked to one MAB on one supply line.

This facilitates the wiring of several units and shortens the individual cable routes.



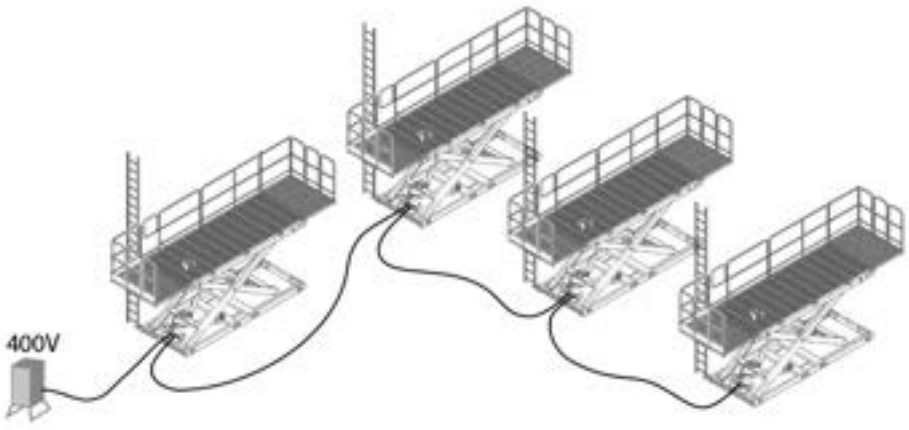

Pos. 1 Supply line 400V with phase inverter

Pos. 2 Socket 400V for interlinking

Pos. 3 Main switch


Pos. 1 Supply line 230V

Pos. 2 Main switch



## NOTICE

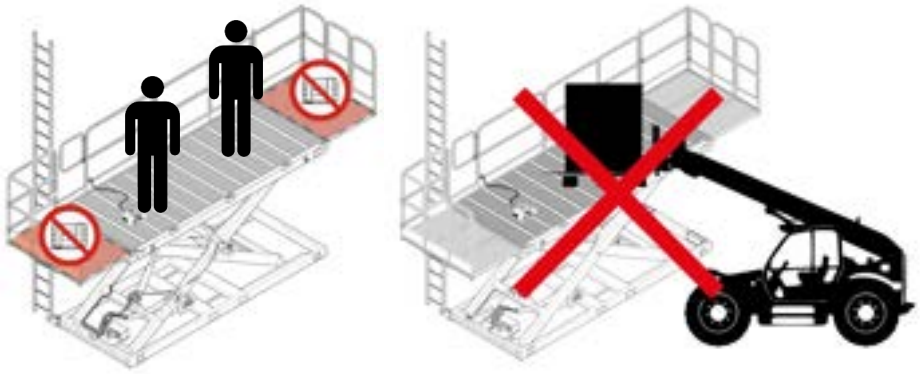
**Always load the platform evenly**

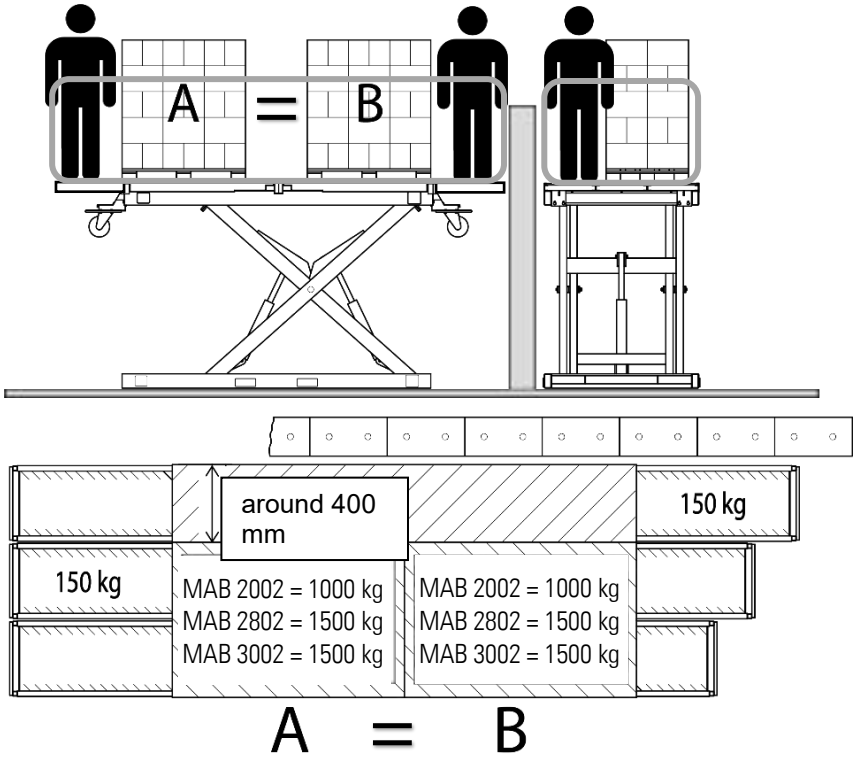
Uneven loading can affect stability and overload the structure.

The MAB may only be loaded when fully lowered.

No material may be placed on the pull-outs.

A maximum of two people are allowed on the working platform.





# 5. OPERATION

1. Enter platform via ground access.
2. Load up stone packs and tools.
3. For loading, completely replace any railing segments that have been removed.
4. Before each lifting and lowering operation, make sure that the travel path and the danger zone around the platform are clear.
5. Move the platform to the desired height with the control element.

## 5.1. Safety functions

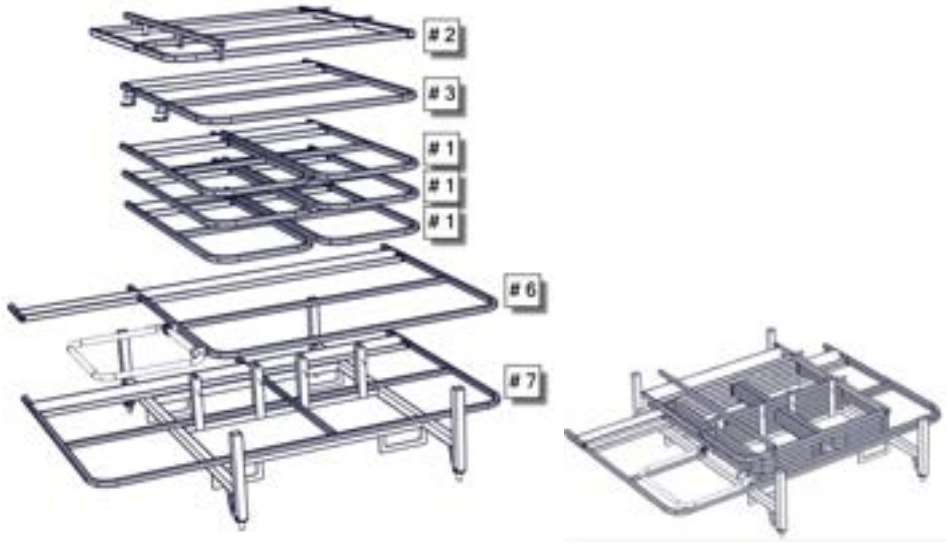
| | |
|---|---|
| **Non-return valve** | Secure the load handling equipment (work platform) to prevent accidental raising or lowering in the event of leaks in the pipeline system by fitting a non-return valve to each cylinder. |

## 5.2. Switch off and shut down

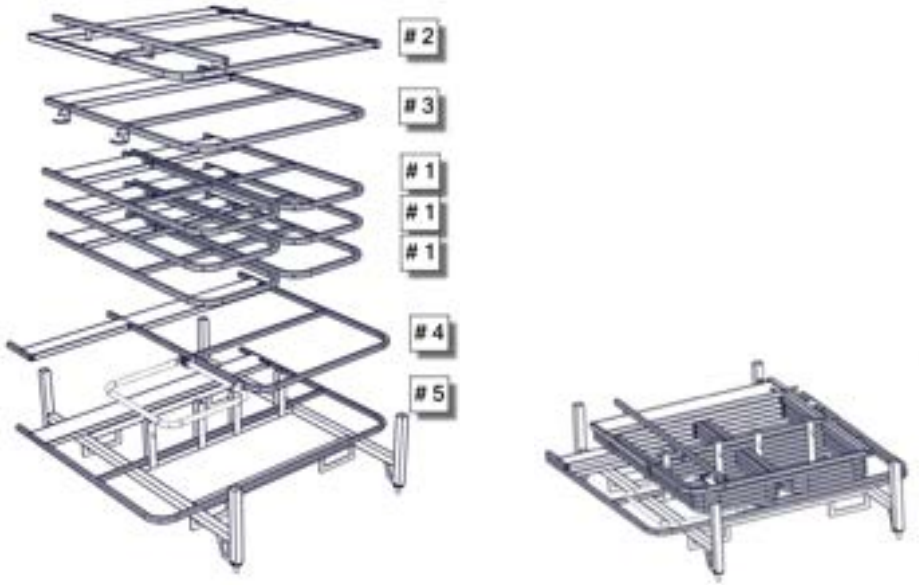
The masonry work platform must be moved to the lowest position during work interruptions and for parking and must be protected against being switched on again by unauthorised persons. The main switch can be secured with a padlock for this purpose.

1. Lower the masonry platform completely.
2. Set the main switch to position 0 / OFF.
3. Remove the supply cable from the power connection.
4. Secure the main switch with a U-lock.

**Set #820126 for**
**MAB 3002**




**Set #820107 for**
**MAB 2002 and 2802**




**Transport**

Before transporting, secure the guardrail elements to the frame with the bolts and spring clips.

# 6. MAINTENANCE

**⚠ WARNING**

**Maintenance and repair work**

Serious personal injury or damage to property if not carried out properly.

- Maintenance and repairs may only be carried out by qualified personnel.
- The mains plug must be removed from the power supply before starting any maintenance or repair work
- The work platform must be secured to prevent it being switched on by others
- Always insert the maintenance support before entering the area under the platform.

**Cleaning**

Do not use any sharp cleaning equipment as they may damage the surface.

Do not use a high-pressure cleaner on the control box or in the marked area.

**Hydraulic oil**

Place a suitable vessel with a funnel under the oil drain screw. Dispose of the old hydraulic oil correctly with your disposal contractor so that it does not harm the environment. Pay particular attention to the safety and maintenance instructions.

**Lubricating**

Only use quality lubricant that meets the stated requirements on the grease nipple. The grease used on the work platform has the name "Energrease LS2 BP".

## 6.1. Maintenance work

| | Before each use | After each use |
|---|---|---|
| Conduct a visual inspection for obvious damage and defects. Check for wear, cracking, corrosion and deformation of the load-bearing parts and the welds. | ● | |
| Conduct a visual inspection of the electric cables, hydraulic hoses and switches for signs of damage and defects. | ● | |
| Hydraulic system Visual check for leaks | ● | |
| Hydraulic oil level Visual inspection of the tank | ● | |
| Clean the work platform. | | ● |
| Change the hydraulic oil | After the first 50 hours of use and then every 2000 hours of use. | |

Replace the hydraulic lines as required, but at the latest after 6 years.
Making note of the hydraulic line replacement in the maintenance schedule.

## ⚠ WARNING

**Danger of crushing**

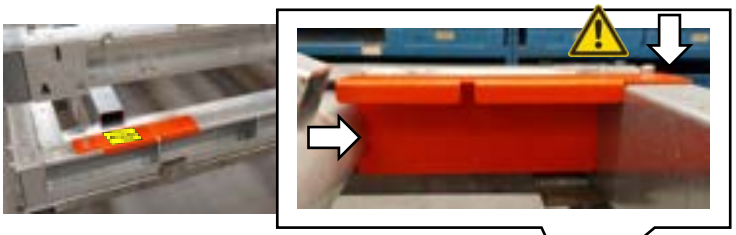
Severe to fatal crushing injuries when standing in the area of the scissor lift.

- ➢ Set the maintenance supports before entering the area under the platform.
- ➢ Always use both supports and engage both securely in the end position

**Workflow**

1. Lower the masonry platform completely.
2. Completely unload the platform.
3. Lift the platform approx. 1.2m.
4. Raise the maintenance supports and fold them out completely.
5. Lower the platform to the stop.
   **ATTENTION**
   Lower the scissors only until they rest against the maintenance supports.
   Do not drive against it with pressure! This can cause damage to the frame.
6. Carry out maintenance work.

Transport position

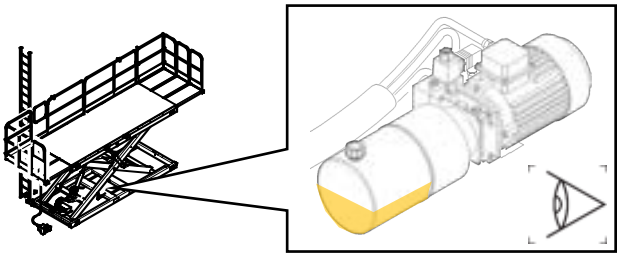


Maintenance position

## 6.3. Check the oil level

Move the masonry work platform upwards.

The oil level must be between min. and max.



## 6.4. Hydraulic oil

The hydraulic unit is filled with a biodegradable hydraulic oil.
Use only one type of hydraulic oil. Do not mix oils from different manufacturers.


To avoid damage, only this oil or an equivalent synthetic hydraulic fluid based on "Ester HE" may be used.

## 6.5. Regular inspections

Repeat inspections are to be conducted depending on the conditions of use and frequency of use.
Content of repeat inspections:

- Visual inspection of the work platform paying special attention to corrosion and other damage to load-bearing parts and welds.
- Testing the mechanical, hydraulic and electrical systems paying particular attention to safety equipment.
- Effectiveness of the overload device
- Effectiveness of the lowering warning in the danger zone
- Function test of the complete work platform

The frequency and scope of periodic inspections may also depend on national regulations.

The results of inspections and the name and address of the inspector must be recorded in a signed inspection report.

## 6.5.1. Regular testing

The working platform must be inspected for safe condition and function by a competent person at intervals of no more than one year after initial commissioning. The work platform must be cleaned thoroughly before the inspection.

**General information**

Manufacturer:

LISSMAC Maschinenbau GmbH
Lanzstraße 4
D-88410 Bad Wurzach

Description: Masonry working platform MAB _ _ _

Serial number: .....

Electrical connection: .....

Year of manufacture .....

Date of delivery/
Commissioning on .....

## 6.6. Maintenance plan

This section is to serve as evidence for the maintenance and service book already supplied.
All maintenance and service work must be registered as evidence.

Machine/type:

Serial number/year of manufacture:

| Date | Maintenance or service work carried out | Date/signature |
|---|---|---|
| | | |
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# 7. TROUBLESHOOTING

**⚠ WARNING**

**Risk of injury due to improper working methods**

Electric shock or severe crushing injuries when working on and under the working platform

- Maintenance and repairs may only be carried out by qualified personnel.
- The mains plug must be removed from the power supply before starting any maintenance or repair work
- The work platform must be secured to prevent it being switched on by others
- Always insert the maintenance support before entering the area under the platform.

| Error | Cause | Remedy |
|---|---|---|
| When the foot switch is actuated, the platform does not go up, although the unit is running. | Directional seat valve on the unit defective | The valve may only be replaced by the manufacturer or by trained personnel |
| | If a warning signal sounds, the platform is overloaded. | Reduce weight on platform |
| The valve does not arise to its limit setting | Too little hydraulic oil in the tank | Top up the oil |
| The platform does not lower | Solenoid valve on the cylinder defective | The valve may only be replaced by the manufacturer or by trained personnel |
| | Control defective | May only be repaired by trained personnel |
| The lifting force of the platform does not reach the rated load | Pressure too low | Only by the manufacturer or by trained personnel |
| Oil loss at screw connections | Screw connections undone | Only by the manufacturer or by trained personnel |
| | Seal defective | Only by the manufacturer or by trained personnel |
| Platform rises jerkily | Air in the hydraulic system | Bleed by the manufacturer or by trained personnel |
| Rising speed is reduced | Temperature of hydraulic oil is too low | Oil viscosity depends on the outside temperature |
| | | Bleed by the manufacturer or by trained personnel |
| Unit does not run | Control defective | May only be rectified by an electrician |
| | Motor defective | |

# 8. ACCESSORIES

## 8.1. Wheel kit

**Function**

The wheel set allows the working platform to be moved manually on one level.

**WARNING**

**Danger of crushing on the working platform**

On sloping terrain, the working platform can get out of control and crush people.

- Only move the working platform when there are no more persons or objects on it.
- Only move the working platform over short distances and on level and paved surfaces.
- Release the parking brakes only for moving.
- Always keep your distance from the frame when lifting and lowering.

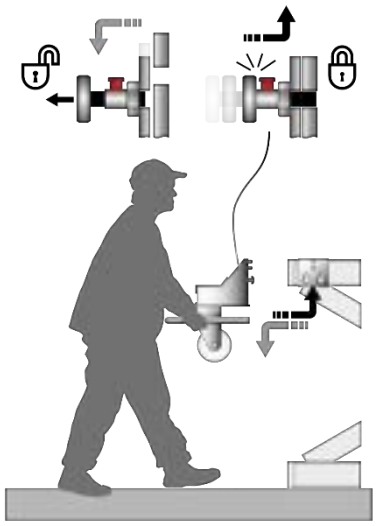
**Preparation**

Moving the working platform requires 2 people.

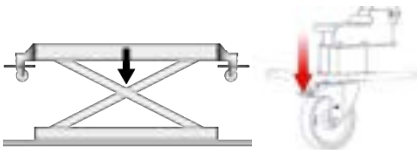
**Assembly**

1. Dismantle the ladder.
2. Raise the working platform to waist height.
3. Insert the wheel into the hole pattern on the frame and lift them up until the locking pin engages.

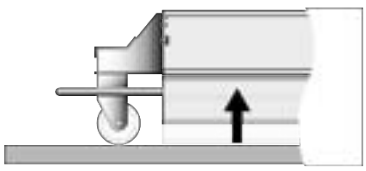
**Attention!** Two of the four wheels with brakes must always be mounted.



4. Lower the working platform until the wheels make contact with the ground.
5. Activate the parking brakes of the wheels by foot pressure.

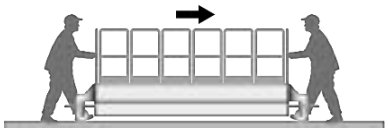


6. Lower the working platform further until the lower frame section lifts off the ground.
7. Disconnect the power connection.
   The controls remain on the working platform.

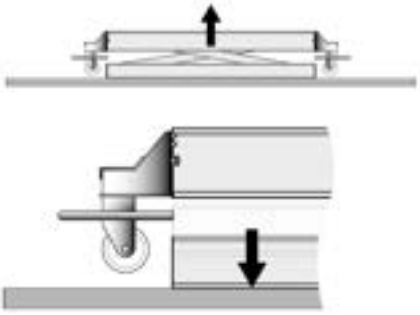


8. Release the parking brakes by lifting the lever.

9. Move the working platform with two people.
10. Always activate the parking brakes at the new location.

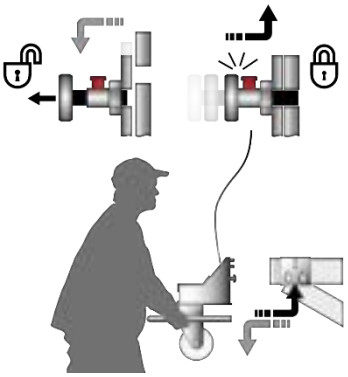


11. Establish the power supply.
12. Raise the working platform until the lower frame is on the ground and the wheels are free.
13. Mount the ladder.



**Disassembly**

1. Raise the working platform to waist height.
2. Pull the securing pin
3. Slide the wheel set down and remove it.



## 8.2. Underframe

**Function**

The UG 250 underframe increases the standing area of the working platform by 2.5m.

**⚠ WARNING**

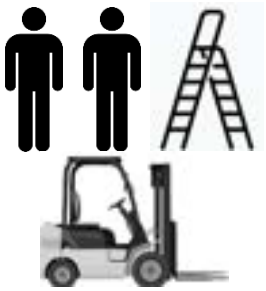
**Risk of falling**

The minimum fall height increases to 2.8m. Serious to fatal injuries possible due to fall.

- Only leave the working platform via the ladder when it is fully lowered.
- The platform must not be extended beyond the top edge of the created wall.

**Preparation**

Assembly requires 2 people and a crane or forklift for placing the work platform and a trestle ladder for attaching the clamps.



Prepare the correct VST cross braces for the respective working platform.

**MAB 2002 = 3.6m #820098**

**MAB 2802 = 3.6m #820098**

**MAB 3002 = 4.4 m #820097**

**Assembly**

1. Set up the side frame.

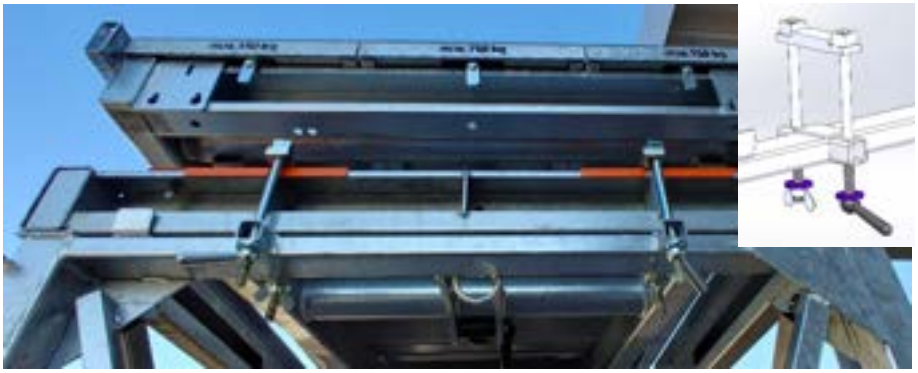
   To do this, use the eyelet on the frame to secure it to the crane.

2. Insert cross struts. Make sure that the safety catch is in the correct position.

3. Connect the cross struts at the crossing point with pins and insert the folding safety catch.

   **Check all connection points!**

4. Assemble the extensions and the railing of the working platform before placing it on the ground.
5. Place the masonry work platform in the centre and align it.
6. Set and tighten the connecting brackets.



**Moving**

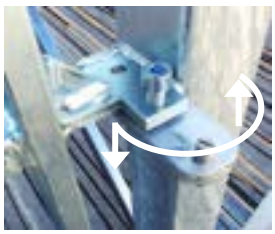
7. The working platform can be transported to the site as a complete unit by crane or forklift truck.

8. Place the base frame at the place of use and align it horizontally using the spirit level in the frame.

   Use metal plates for underpinning, if required.

**On site**

9. Raise the ladder of the base frame and swing it out.



10. Insert the bracket of the conductor holder on the MAB into the holder on the frame and secure it with a pin and cotter pin.

11. Insert the ladder of the working platform into the receptacle of the ladder of the undercarriage and secure it with a pin and cotter pin.

## 8.3. Use in a "double pack"

**Function**

Two working platforms are stacked on top of each other, connected to each other and thus the working height is doubled.

**WARNING**

**Risk of falling**

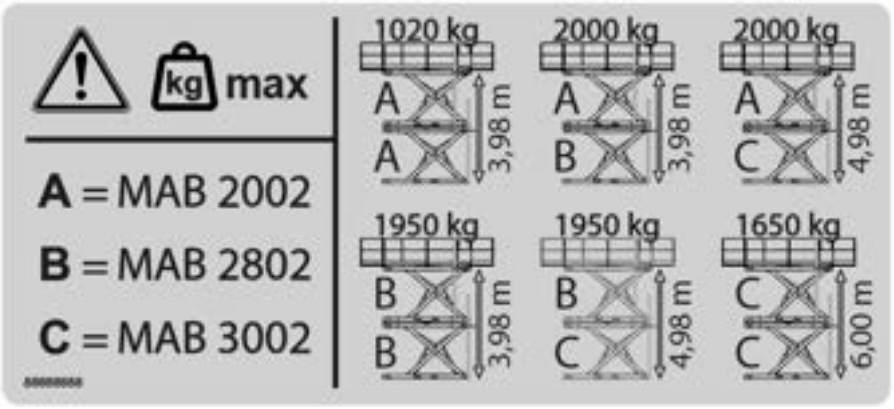
The minimum fall height increases to 2.8m. Serious to fatal injuries possible due to fall.

- Only leave the working platform via the ladder when it is fully lowered.
- The platform must not be extended beyond the top edge of the created wall.

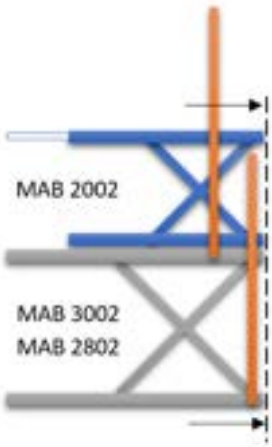
**Preparation**

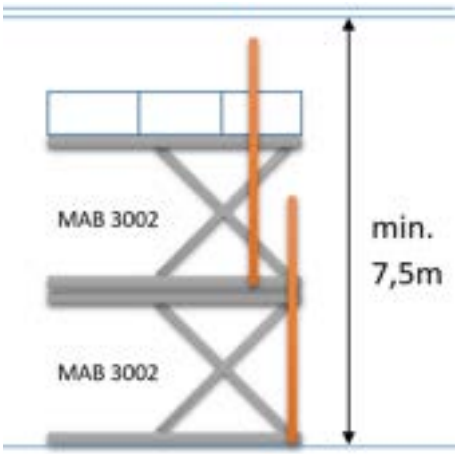
The assembly requires 1 person and for setting up the working platform a crane or forklift and a ring spanner SW 27.


**Combinations and load limits**




**Placement**



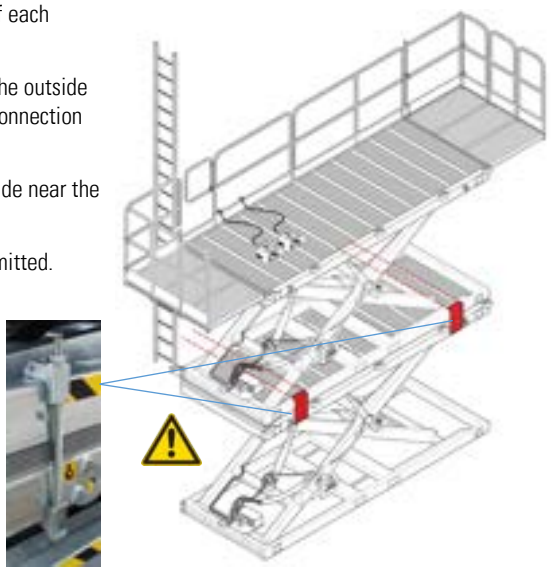
**Assembly**

1. Place the working platforms on top of each other.

   The long sides must be parallel and the outside of the right spars (the side with the connection box) must be flush.

2. Place two connecting clips on each side near the lifting eyes as shown and tighten.

   The use of other fasteners is not permitted.





**Moving**

The working platform can be transported to the site as a complete unit by crane or forklift truck.

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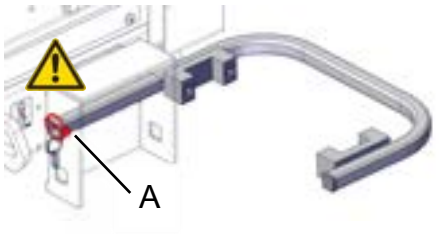
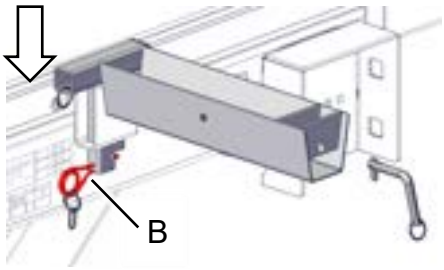
**Mounting the ladder attachment**

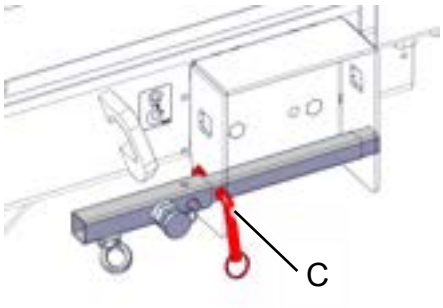
1. Fix the ladder holder to the upper frame part of the lower MAB and secure with cotter pin (A).




2. Mount the ladder holder on the frame of the upper MAB and secure it with pins (B).



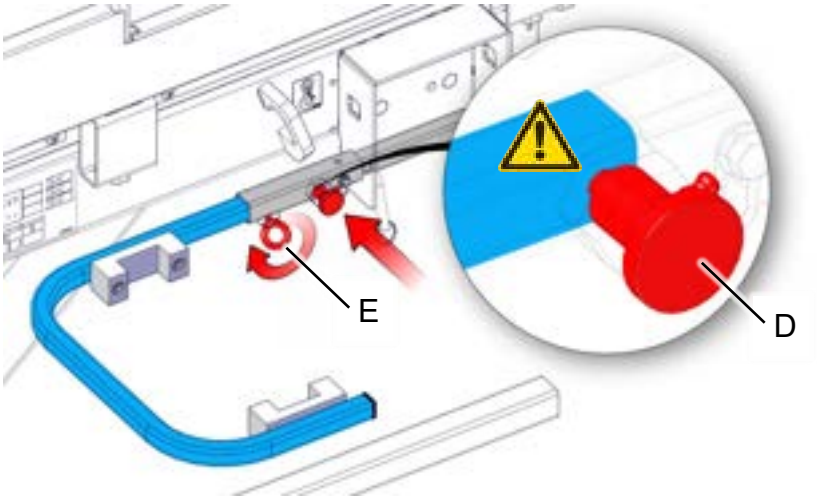

3. Push the adapter into the conductor holder and secure it with the plug-in bolt (C).



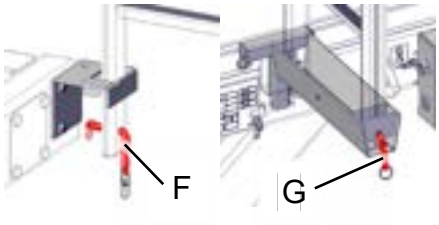
4. Insert the conductor holder into the adapter and engage the spring bolt (D) in the hole.

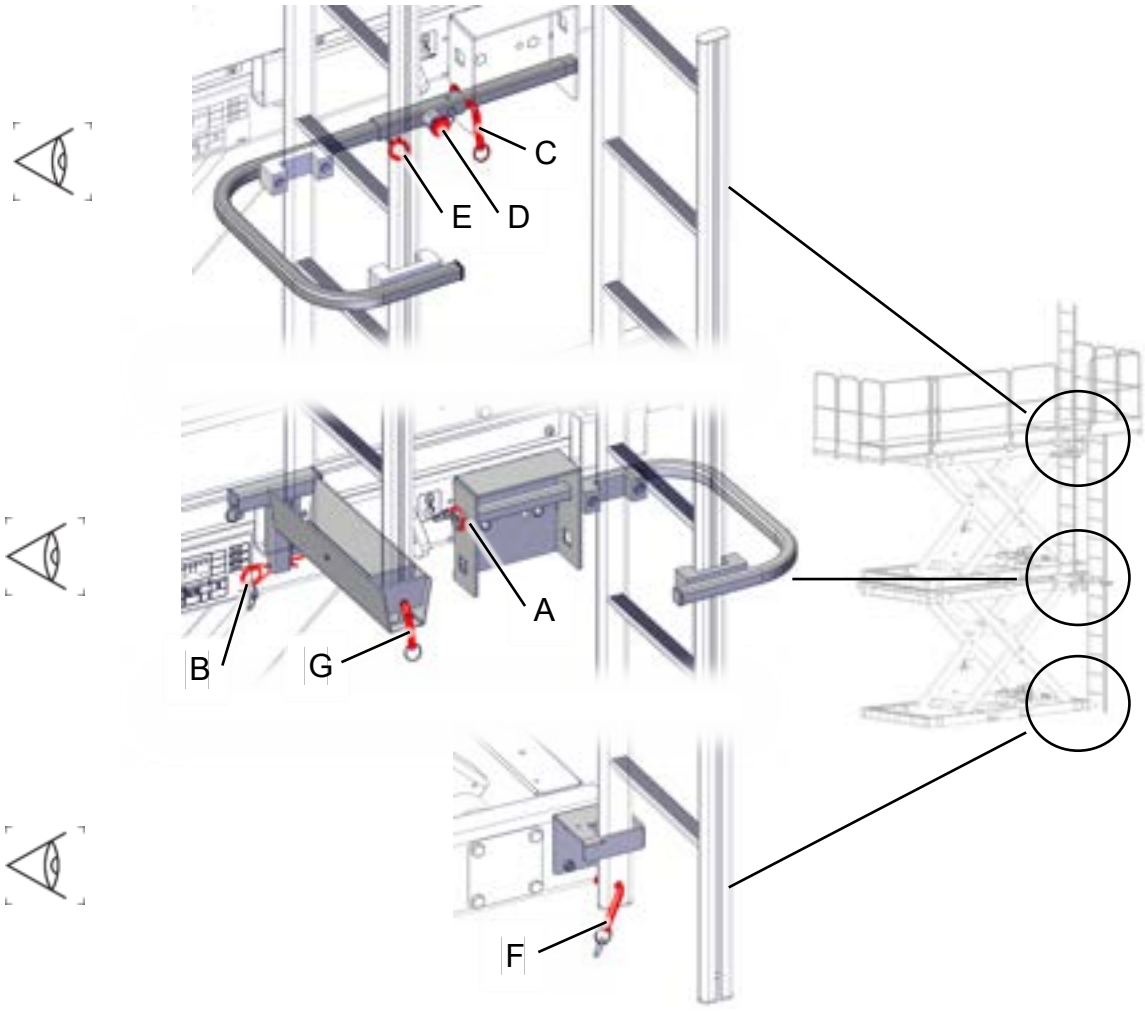
   **ATTENTION! Make sure that the spring bolt is fully seated in the hole!**

5. Then additionally tighten the eyebolt (E).




6. 8. place the ladders in their guides and secure them to the uprights with the pins (F+G)..
7. Finally, check again that all securing elements are correctly inserted!



# 9. DECOMMISSIONING

Dispose of the working platform and especially the operating materials (hydraulic oil) properly in accordance with national regulations.

# 10. WARRANTY

The warranty for this machine is 12 months. Warranty is only provided for the wear parts listed below if the wear is not due to operation.

Wear parts are parts which undergo operation-dependent wear during the intended use of the machine. These parts have varying service lives, depending on the intensity with which they are used. The wearing parts must be maintained, adjusted and replaced if necessary for the specific machine as set out in the manufacturer's operating manual.

Operation-dependent wear does not require any claims for defects.

- Feed and drive elements such as racks, gear wheels, pinions, spindles, spindle nuts, spindle bearings, cables, chains, sprocket wheels and belts
- Seals, cables, hoses, sleeves, plugs, couplings and switches for pneumatics, hydraulics, electrics
- Guide elements such as guide rails, guide bushes, guide rails, rollers, bearings, anti-slip pads
- Clamping elements of quick release systems
- Plain and roller bearings which do not run in an oil bath
- Shaft sealing rings and sealing elements
- Carbon bushes, collectors
- Fuses
- Operating materials and supplies
- Fittings
- Running and drive wheels

# Translation of the original EC Declaration of Conformity

This EC Declaration of Conformity is valid for the following machine

**LISSMAC Masonry Work Platform MAB 2002, MAB 2802 and MAB 3002**.

This declaration only relates to the machine in the state in which it was brought into circulation; parts attached subsequently and / or interventions made subsequently by the end user remain unconsidered. We declare under our sole responsibility that the machine complies with the relevant provisions of Directive 2006/42/EC.

**Manufacturer:**

LISSMAC Maschinenbau GmbH
Lanzstrasse 4
D-88410 Bad Wurzach. Germany.

The technical documents are stored by
LISSMAC Maschinenbau GmbH, Lanzstrasse 4, D-88410 Bad Wurzach.

Authorised representative: Head of Construction / Technical Documentation

**Description of the machine:**

The LISSMAC bricklayer's work platform MAB is exclusively intended for lifting and lowering a maximum of 2 persons and building material on construction sites by instructed persons. Lifting is used to balance the working height and is limited to the specified maximum load.

| | MAB 2002 | MAB 2802 | MAB 3002 |
|---|---|---|---|
| Length | 3.1 m | 3.1 m | 4.1 m |
| Width total/platform | 1.62 m / 1,5m | 1.62 m / 1,5m | 1.62 m / 1,5m |
| Lifting height | 0.49 - 1.99 m | 0.49 - 1.99 m | 0.57 - 2.99 m |
| Lifting speed | 1.5 m/min | 1.8 m/min | 2.1 m/min |
| Load capacity | 2000 kg | 3000 kg | 3000 kg |
| Weight | 960 kg | 998 kg | 1240 kg |

**Implemented regulations:**

2006/42/EC Machinery Directive
2014/30/EU EMC Directive

**Applied Harmonised Standards:**

EN ISO 12100:2011 with Corrigendum 1:2013 Safety of machinery - General principles for design - Risk assessment and risk reduction
EN 60204-1:2019 Safety of machinery - Electrical equipment of machines - Part 1: General e requirements
EN 280:2013 + A1:2015 Mobile elevating work platforms - Calculation - Stability - Construction - Safety - Testing

**EC type examination:**

The notified body: DEKRA Testing and Certification GmbH, identification number: 0158
has verified conformity with the safety requirements and issued the following
EC type-examination certificate: No. 4822014.22001

**Legally Binding Proxy:**

LISSMAC Maschinenbau GmbH
Lanzstrasse 4, D-88410 Bad Wurzach
Bad Wurzach the, 23.02.2023

.....

Dr. Hinrich Dohrmann
(Managing Director)

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Mail: lissmac@lissmac.com
www.lissmac.com

LISSMAC

UNS BEWEGEN IDEEN