

EN

LISSMAC

CONSTRUCTION TECHNOLOGY

OPERATING MANUAL MASONRY WORKING PLATFORM

MAB 1200



LISSMAC Maschinenbau GmbH
Lanzstrasse 4
D-88410 Bad Wurzach
Telephone +49 (0) 7564 / 307- 0
Fax +49 (0) 7564 / 307 - 500
lissmac@lissmac.com
www.lissmac.com





Imprint

The operating manual is valid for:
LISSMAC Masonry Working Platform:

- MAB 1200

Company headquarters:

LISSMAC Maschinenbau GmbH
Lanzstraße 4
D - 88410 Bad Wurzach
Phone: +49 (0) 7564 / 307 – 0
Fax: +49 (0) 7564 / 307 – 500
lissmac@lissmac.com
www.lissmac.com

Translation of the original operating manual
Status: 12_2020

The dissemination or duplication of this operating manual in any form, or the reuse of contents is forbidden unless permitted in writing.
Non-compliance is subject to compensation for damages. All rights reserved for the purpose of patent, utility model, or design patent registration.

BASIC SAFETY NOTES

Warning notes and icons in these instructions



SIGNAL WORD



Type and source of danger

Consequences of non-compliance

- Actions to avert the danger.

The signal word next to the danger symbol indicates the degree of danger.



DANGER

This signal word signifies an extremely dangerous situation. If the situation is not avoided, fatal or serious injuries will result.



WARNING

This signal word signifies a dangerous situation. If the situation is not avoided, fatal or serious injuries will result.



CAUTION

This signal word signifies a dangerous situation. If the situation is not avoided, medium to slight injuries will result.

NOTE

This signal word signifies a situation which presents risks to objects. If the situation is not avoided, property damage will result. The signal word is present without a danger symbol.



Import information is denoted by »i«.

Request for action to the operator

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

- Instructions for action to the operator

The following warning and safety notes have been attached at the machine:



Observing the operating instructions



High-pressure cleaning forbidden



Attachment point for crane transports



Stacker transport



Warning of dangerous electrical voltage



Warning of a hazard area

OPERATING MANUAL

Preface

This operating manual should make it easier to get to know the machine and make use of its intended applications.

The operating manual contains important information on how to operate the machine safely, properly and economically. Your close attention helps avoid risk, repair costs and downtime, and increase the reliability and lifetime of the machine.

The operating manual is to be supplemented by directives for accident prevention and environmental protection, according to applicable national requirements.

The operating manual is to be kept permanently available at the machine location.

The operating manual must be read and used by each person assigned to work with the machine, e.g.:

- Operating, including tooling, troubleshooting during operating, correction of production rejects, service, disposal of operating and auxiliary materials
- Maintenance (service, inspection, repair) and/or
- Transport

Along with the operating manual and the valid legal regulations for accident prevention in the country of use and the place of use, also recognised technical regulations for safety and proper work are to be observed.

Changes and reservations

We attempt for this operating manual to be correct and up-to-date. To maintain our technological lead, it can be necessary to change the product without advance notice and to perform their operation. We accept no liability for malfunctions, breakdowns and damage caused by this.

Table of contents

1. Features & Benefits	8
1.1. Basics of intended use	9
1.2. Organisational measures	10
1.3. Personnel choice and personnel qualification; basic responsibilities	11
1.4. Safety instructions for certain operation phases	11
1.4.1. Structure	11
1.4.2. Normal operation	11
1.4.3. Recommissioning after extended downtime	12
1.4.4. Special work while using the machine	12
1.5. Safety instructions for special types of dangers	13
1.5.1. Electric power	13
1.5.2. Dust	13
1.5.3. Noise	13
1.5.4. Danger of falling	13
1.5.5. Wind force	13
1.6. Transport	14
1.7. Packaging and Storage	14
1.8. Environmental protection	14
1.9. Disposal	14
2. Machine description	15
2.1. Component overview	15
2.2. Safety features	15
2.3. Technical data	16
2.4. Noise power level	17
2.5. Loading the platform	17
3. Commissioning	18
3.1. Connections	18
3.2. Operating controls	18
3.3. Placing the masonry working platform	19
3.4. Attachment of railings	20
3.5. Setting up the masonry working platform	21
3.6. Ladder installation	22
3.7. Mounting the wheel set	23
3.8. Wheel set parking brake	23
4. Transport	24
4.1. Vehicle transport	24
4.2. Forklift transport	24
4.3. Moving with the construction crane	25
4.4. Moving with the wheel set	25
5. Operation	26
5.1. Operation	26
5.2. Shutdown	26
5.3. Interruption of operation	27
6. Dismantling	28
7. Maintenance	29
7.1. Service	29
7.2. Oil level control	30
7.3. Hydraulic oil	30
7.4. Torque of screw connections	30
7.5. Regular tests	31
7.5.1. Regular expert inspections	31
7.6. Maintenance plan	32
8. Troubleshooting	33
9. Custom accessory extension	34
9.1. Attaching the extensions	35
9.2. Transport the masonry platform with extensions	36
9.3. Pullouts on the extension	37
10. Decommissioning	38
11. Conditional connections	38
12. Warranty	39
13. Spare parts list	40

1. FEATURES & BENEFITS

LISSMAC masonry working platforms set cutting-edge benchmarks in economy, cost-savings and operating simplicity. The MAB supports the worker with both ergonomics and workflow. Short set-up times allow very fast and flexible applications.

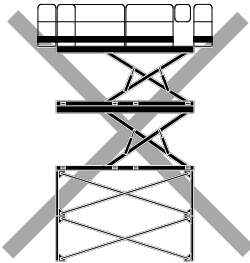
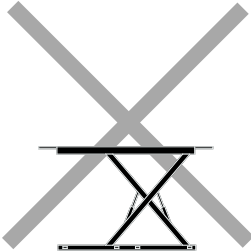
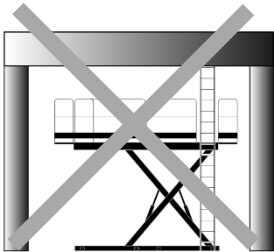
- Very compact design – 1.99 m lift height despite compact footprint by the use of a double scissor mechanism
- 230V and 400V mains connection
- Base frame, scissors and platform are powder-coated (torsion-free design with thick panels)
- The platform working length can be lengthened seamlessly by up to 0.90 m using three identical pull-outs for optimal adjustment to all kinds of floor
- Anti-slip welded steel chequer plate
- Lightweight
- Standard manual control unit for flexible application - foot switch optional
- Minimal installation time for the platforms – easy and efficient
- Double-acting hydraulic cylinder with safety valve (hydraulic release during transport)
- Optimum weight distribution due to complete placement onto a supporting base frame and symmetrically arranged cylinders
- Optionally available quick attaching wheel set – for ease in moving the platforms, no point load during operation, as the wheel set is attached above
- Stable load capacity over the entire lifting height



We expressly inform you that according to C STANDARD EN 280, all masonry working platforms may only be used **WITH** railings, without exception.



1.1. Basics of intended use

Intended use	The warranty obligation of the manufacturer and supplier is voided for improper or non-intended use. Any change to the machine which is not carried out by the manufacturer is prohibited. Changes, removal or addition of parts only with the written approval of the manufacturer.
	The machine is constructed according to the state of the art and recognised technical safety rules. However, danger to life and limb of the user or third parties, and/or damage to the machine or other property may still arise from its use.
	Only use the machine in technically faultless condition and for intended use, aware of safety and danger complying with the operating manual. You should particularly handle malfunctions which can compromise safety immediately, or have them addressed by experts.
	The LISSMAC masonry work platform MAB is a mobile lifting work platform. It is intended solely for the raising and lowering of personnel and construction materials on construction sites by competent personnel. A railing must be installed on each side of the masonry work platform as fall protection. Lifting serves to balance out the work height and limits itself to the maximum carrying capacity indicated. Any use beyond this is deemed non-intended. Intended use also includes observation of the operating instructions and compliance with the inspection and maintenance instructions.
Non-intended use	Foreseeable misuse/non-intended use: • Use as lift for access to higher floors • Use as support of a building or any other construction • Work with the masonry work platform at a slope • Use indoors or under a structural element • Use of the masonry work platform without guard rails • Use of two masonry work platforms and one subframe at once 

1.2. Organisational measures

The operating manual is to be kept permanently at the masonry working platform location and easily accessible!

Follow and instruct others in all generally valid legal and otherwise binding regulations for accident prevention and environmental protection in addition to the operating manual!

Such obligations may also apply, for example, to the handling of hazardous materials or the providing/wearing of personal protective gear or traffic regulations.

Personnel assigned to activities on the masonry working platform must have read the operating manual, particularly the Safety Instructions chapter, before starting work. In the middle of work it is too late. This applies notably to personnel who only work occasionally on the masonry working platform, e.g. for changeovers and service.

At least occasionally, perform checks for safe and hazard awareness work by operators while following the operating manual!

Use personal protection equipment if necessary or required by regulations!

Observe all safety and danger instructions on the masonry working platform!

Keep all safety instructions and danger warnings on/in the masonry working platform complete and in legible condition!

At the presence of safety-related changes or operating behaviour, stop the machine immediately and report the problem to the responsible post/person!

Make no changes through removal or addition of parts to the masonry working platform without the written approval of the manufacturer!

Only use original replacement parts from the manufacturer!

Observe required or prescribed deadlines given in the operating manual for inspections! A yearly inspection by an expert is required (TÜV or the manufacturer).

Before inspection, the machine and components must be cleaned thoroughly.

The annual inspection of the masonry working platform must be kept in writing. If an undercarriage is used it must also be inspected.

Pull the power plug before any maintenance or repair work.

The masonry working platform must always be well secured against possible lowering during repair or maintenance work (risk of crushing).

A functional inspection (hydraulic oil level, tightness of cylinder and hydraulic screwed joints) must be performed after each extended downtime.

When working with the masonry working platform it must be ensured that no objects can fall off.

1.3. Personnel choice and personnel qualification; basic responsibilities

	Only people 18 years of age or older who are trained in the operation of the masonry working platform and explicitly authorised in writing by the company to operate it may operate the masonry working platform independently. Remaining on or under the masonry working platform unnecessarily is prohibited! During all movement of the masonry working platform, operating personnel must ensure that they and other people are not endangered. Work on the electrical equipment of the machine may only be carried out by electricians or trained personnel under the management and supervision of an electrician, and in accordance with the rules of electronics. Any personnel training, learning, being instructed, or currently involved in general education may only work with the machine under the continual supervision of an experienced person!
--	--

1.4. Safety instructions for certain operation phases

1.4.1. Structure

	The masonry working platform must be standing on a clean, horizontal and solid surface (minimum load carrying capacity 1000 kg/m²). The masonry working platform must not be used on an incline. The masonry working platform must be kept away from voltage carrying electrical lines. Collisions with fixed structures or other loose objects must be avoided. It is forbidden to connect the masonry working platform to the power mains without GCFI protection in the mains supply line or the junction box. The circuit breaker must be designed for 3 x 16A against overcurrent. If the masonry working platform is used with an undercarriage, the operating manual from the LISSMAC undercarriage must be followed. Only a LISSMAC undercarriage may be used.
--	---

1.4.2. Normal operation

	Refrain from working in any manner that is questionable in regard to safety! Take measures to ensure that the masonry working platform is only operated in safe, functional condition and used with the protective railings designed for it! At least once per shift check the masonry working platform for externally recognisable damage and deficiencies! Any changes which occur (including operating behaviour) must be reported immediately to the responsible post/person! If necessary, immediately stop the machine and secure it against restarting! Immediately stop and secure the masonry working platform in case of malfunctions! Immediately correct malfunctions! The masonry working platform must not be overloaded. Observe the permissible carrying load! The permissible load carrying capacity for a side extension is 150 kg. This is used purely as a running surface and not for holding loads. Expansion of the reach or the working height must not be increased using additional scaffolding or ladders.
--	--

	The ladder may only be used on the masonry working platform with a guide and fixtures. Leaving the masonry working platform when in the raised condition may only be done using the emergency escape (ladder). Getting onto or leaving the raised masonry working platform is prohibited! The masonry working platform must not be used as a crane. The working area under the raised masonry working platform must not be entered. Collisions with fixed structures must be avoided.
--	--

1.4.3. Recommissioning after extended downtime.

	After an extended downtime of the machine the following points must be observed/checked before recommissioning: • Check all electrical and hydraulic lines for cracks and leaks • Functional check of raising and lowering • Check oil level • Check frame for corrosion and cracks in the weld seams
--	---

1.4.4. Special work while using the machine

	Follow all setup, maintenance, and inspection activities and schedules prescribed by the operating manual, including all information about the replacement of parts / assemblies! These activities may only be carried out by experts. Inform operating personnel before beginning special and maintenance work! Name a supervisor! If the masonry working platform is completely turned off during maintenance and repair work, it must be secured against unexpected application of power. Before cleaning the machine with water or other cleaning agents, cover/tape shut all openings in which no water/steam/cleaning agent may penetrate for safety or functional reasons. Particular points of risk are electrical motors, switches and plugs. After cleaning, remove the covers/tape completely! During service and repair work, always tighten loose bolt joints! If dismantling is required for fitting, servicing and repair, the safety fittings must be remounted and checked immediately following the service and repair work! Please ensure the safe, environmentally friendly disposal of operating and auxiliary materials and replacement parts!
--	---

1.5. Safety instructions for special types of dangers

1.5.1. Electric power

	Use only original fuses with the specified current rating! In case of problems with the electrical power supply, turn the masonry working platform off immediately! Carry out maintenance or repair work only when the masonry working platform is disconnected from the power mains. Condensers could be under voltage if faulty. The machine's electrical equipment must be inspected/checked regularly. Faults such as loose connections or damaged cables must be corrected immediately. Keep voltage-carrying electrical lines away from the masonry working platform.
--	---

1.5.2. Dust

	When working in close quarters, follow any applicable national guidelines!
--	---

1.5.3. Noise

	The noise power level at the operator's position is 70 dB(A)
--	---

1.5.4. Danger of falling

	The masonry working platform must only be used with railings as fall protection and a ladder for emergency escape possibility. Expansion of the reach or the working height using objects of any kind is prohibited!
--	--

1.5.5. Wind force

	Adding parts of any type that would increase the wind force on the masonry working platform is prohibited. For strong wind forces over Beaufort scale 6 (12.5 m/sec.) or an impending thunderstorm, the masonry working platform must be lowered and left immediately.
--	--

1.6. Transport

	Transport may only be done when the masonry working platform is lowered and all railing elements are removed. A four-way hanger with sufficient loading capacity must be used for moving the masonry working platform. No persons or operating material may be on the masonry working platform. Name expert instructors for the lifting process! Only lift the masonry working platform with proper lifting gear on the crane eyes according to instructions in the operating manual! Only use suitable transport vehicle with sufficient load capacity! Secure loads reliably. Use suitable attachment points! Even when only being moved a short distance, the masonry working platform must be disconnected from mains power! Before restarting the machine, connect it to the power supply correctly! When recommissioning, follow the operating manual! Follow the national traffic regulations! Collisions with fixed structures, vehicles or other objects must be avoided.
--	--

1.7. Packaging and Storage

	When the machine is received it should be checked for damage. In the case of damage, the machine must not be put into operation. Even damaged cable and plugs represent a safety risk and must not be used. In this case, please contact the manufacturer. If the machine is not immediately put into operation after unpacking, it must be protected from moisture and dirt.
--	---

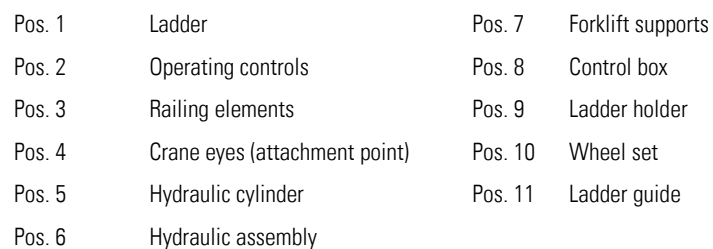
1.8. Environmental protection

	Packaging material, cleaning agents, used or residual operating materials, as well as removed wear parts, such as drive belts or motor oils must be taken to recycling corresponding to the valid regulations for environmental protection at the place of use.
--	--

1.9. Disposal

	If the expiry date of the machine has been reached, in particular if malfunctions happen, make the machine unusable. Dispose of the machine according to the valid regulations for environmental protection of your country. Electrical waste may not be disposed of in household waste.
--	--

2.1. Component overview



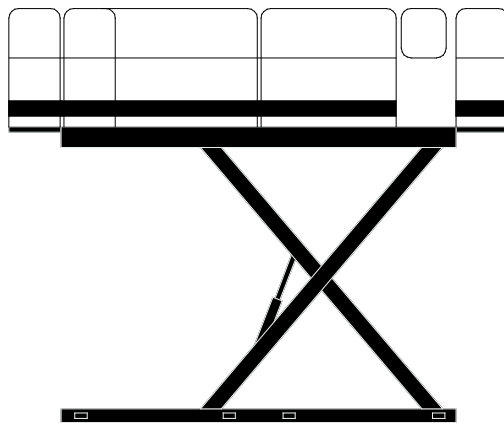
Pos. 3	Railing elements
Pos. 5	Manual control
Pos. 7	Ladder

2.3. Technical data

	MAB 1200
Length	1800 mm
Length with extendable catwalks, left/right	3600 mm
Width	1320 mm
Hoisting height	480 – 1990 mm
Hoisting speed	1.5 m/min
Drive	electric/hydraulic
Load capacity	1200 kg
Drive power	2.3 kW
Voltage	230 - 400 V/ 50 Hz / 16 A
Allow. load on catwalk	150 kg Only for passing through, do not set down or store materials or components!
Weight	590 kg

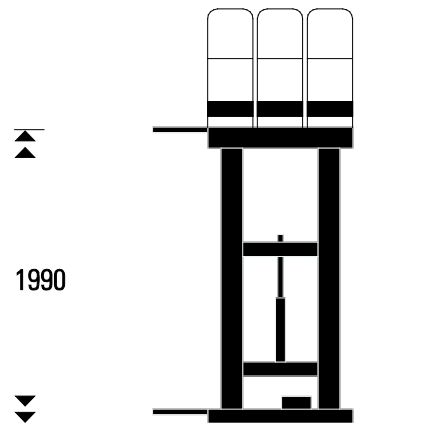
Changes to the technical data included here are possible without prior notification.

1800 (3600)



Side view

1320



Front view

2.4. Noise power level



WARNING

Risk of hearing damage

Regulations state that hearing protection must be worn above a noise level of 85 dB (A).

- Wear personal hearing protection

The data define volume of noise level, based on the operator workspace.

The emission noise pressure at the operator's place L_{pA} 70 dB(A)

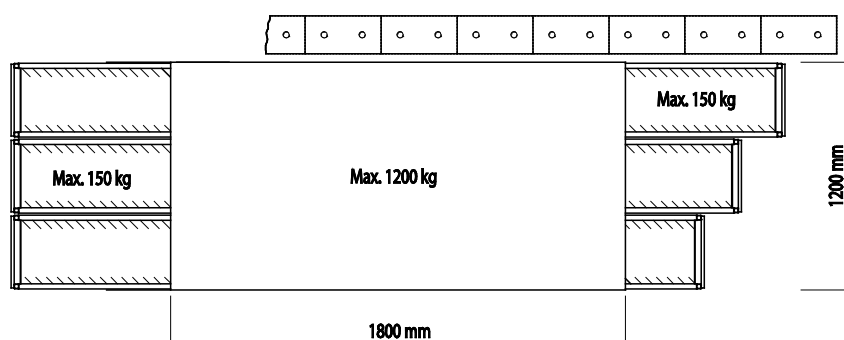
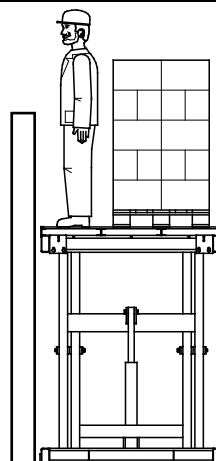
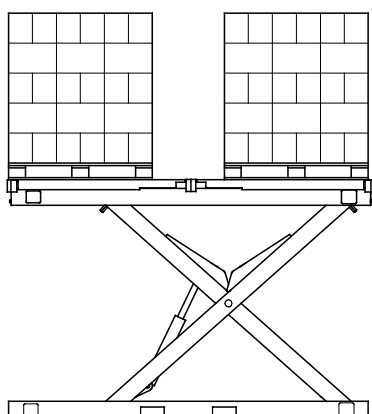
The values are determined by the noise emission measurement.

Testing is done without load on the work area.

The emission noise pressure is carried out in compliance with standard EN 280.

2.5. Loading the platform

	MAB 1200
Allow. total load (persons and half)	1200 kg
Allow. loading per half	600 kg
Allow. load on catwalk	150 kg Only for passing through, do not set down or store materials or components!



3. COMMISSIONING

3.1. Connections

Connection of electricity

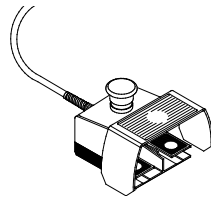
Reliable power source (400V or 230V) and corresponding fuses and RCD protection must be installed.

Operating hydraulic oil

The motors are filled with hydraulic oil by the manufacturer.
Only hydraulic oil approved by the manufacturer may be used.

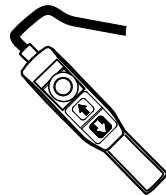
3.2. Operating controls

Foot switch



The masonry working platform can be raised and lowered using the foot switch. The foot switch is placed on the masonry working platform and controlled with the operator's foot. The foot switch has an EMERGENCY STOP function on the top.

Manual control



The masonry working platform can be raised and lowered using the manual control. The manual control is placed on the masonry working platform and is controlled as a remote control by the operator. The manual control has an EMERGENCY STOP function on the top.



WARNING



Tipping of the machine

Falling, sinking or tilting of the machine.

- The masonry working platform must be set down on a clean, horizontal and solid surface (minimum load carrying capacity 1000 kg/m²).



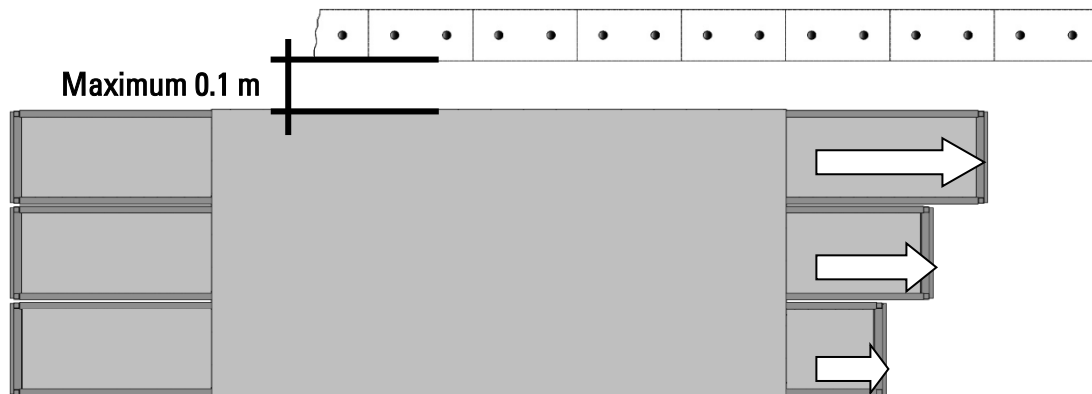
CAUTION



Personnel injury due to improper use

It is possible the machine will fall over between the open intermediate spaces if the pull outs are not completely extended

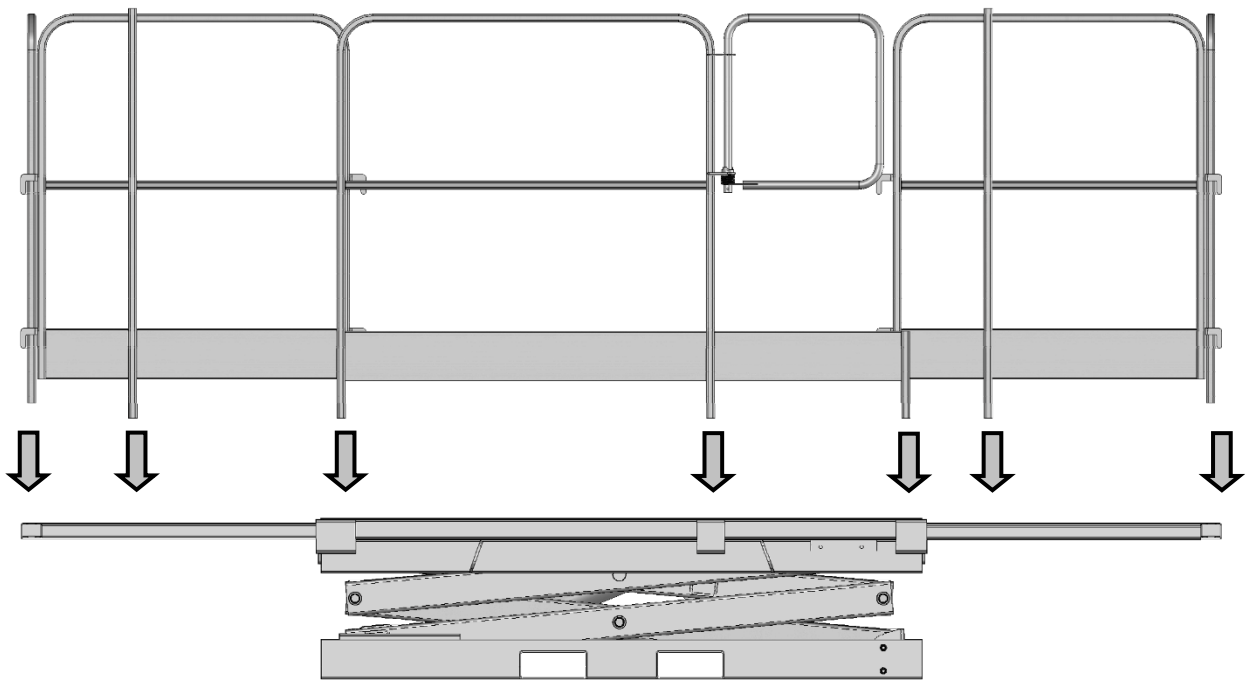
- The distance may not be larger than **-0.1 m-** on the railing-free side.



3.4. Attachment of railings

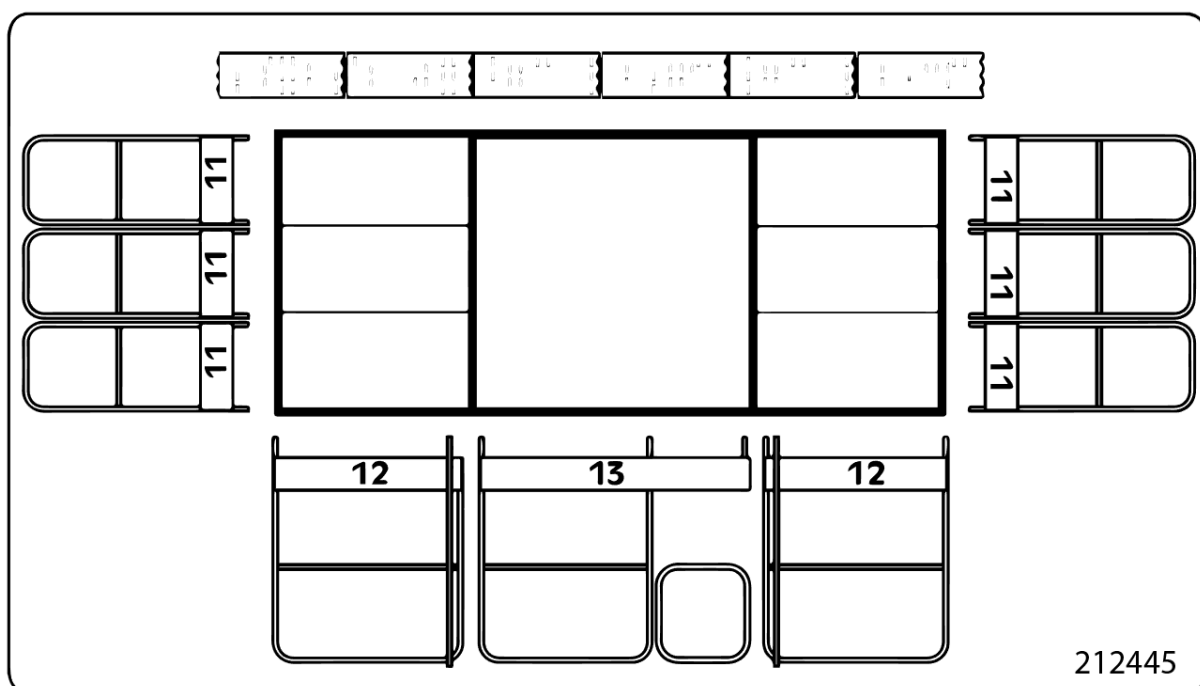


Observe intended use!

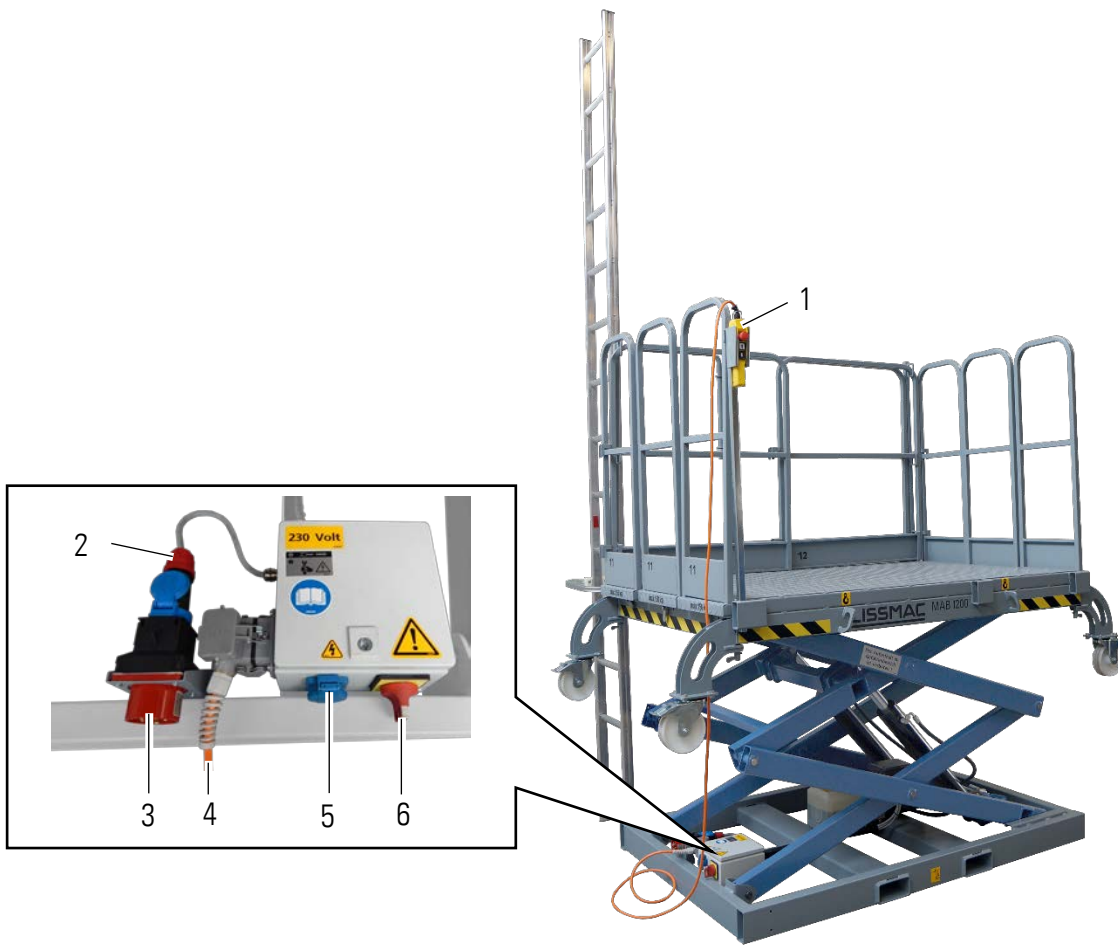


- The railing elements are inserted into top of the frame in the railing fixtures.

Overview of the railing elements



3.5. Setting up the masonry working platform

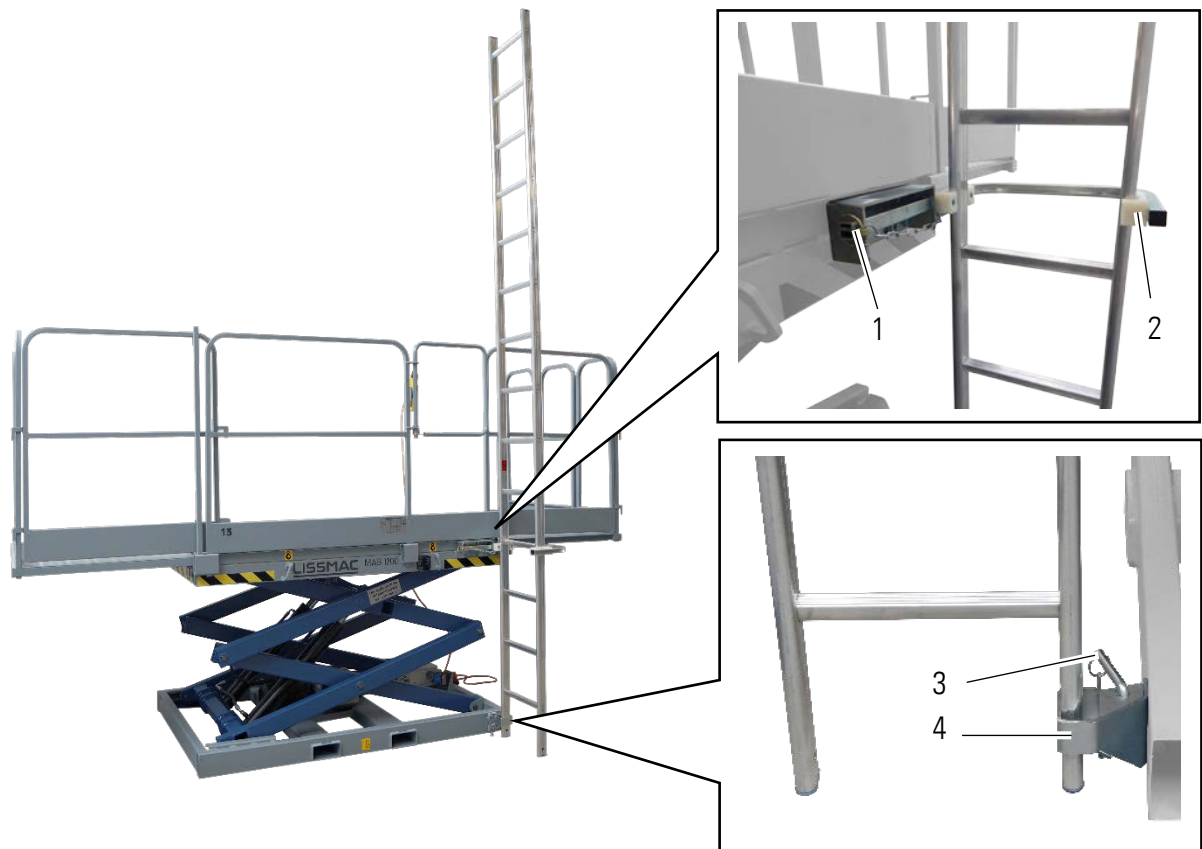


- Insert the operating controls (pos. 1) in the socket (pos. 4)
- Insert power source;
230V supply cable can be stuck directly onto the connector (pos. 2)
400V supply cable must be stuck on using the adapter (pos. 3)
- Turn on main switch (pos. 5)

Receptacle

230V connection (pos. 5) for further connection of a masonry working platform/auxiliary equipment (simultaneous operation is not possible, maximum fuse in the supply line 16A)

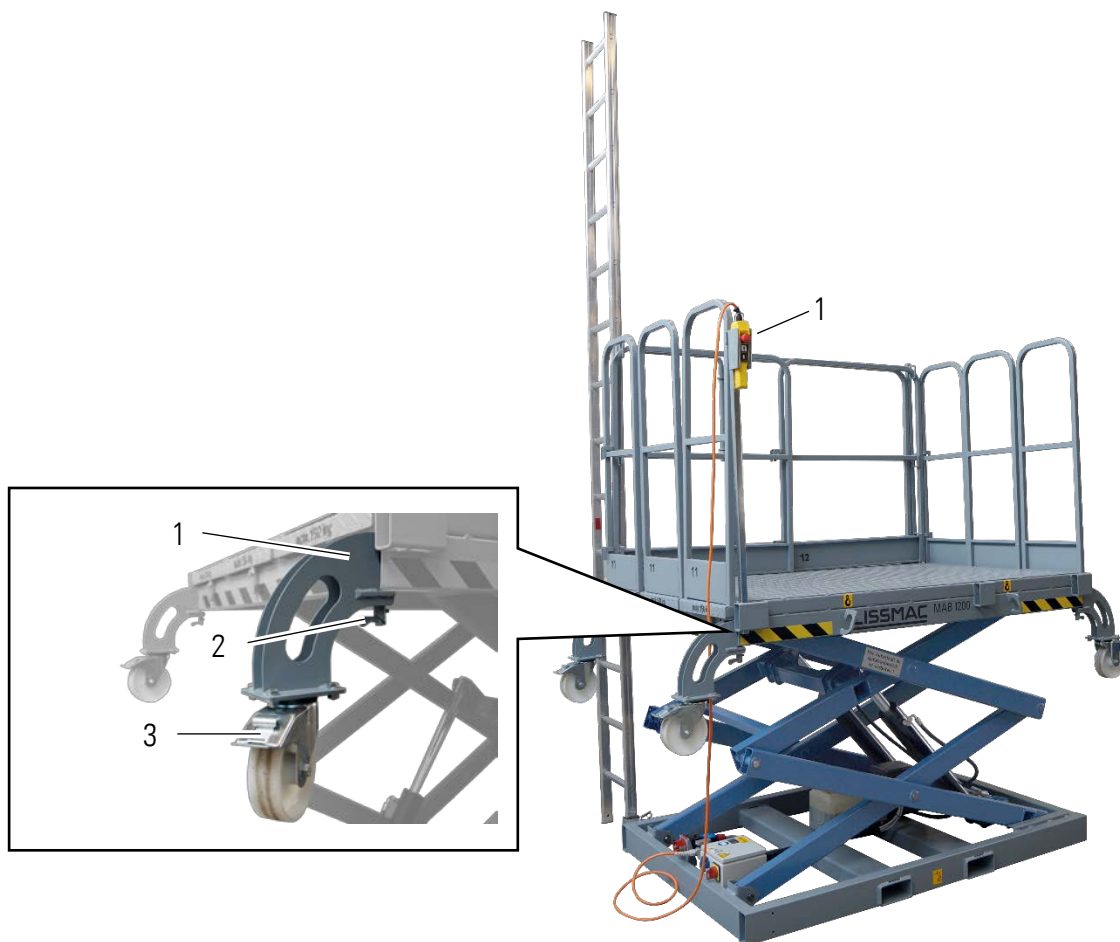
3.6. Ladder installation



Observe intended usage!

- Insert the ladder guide (pos. 2) in the holder and secure using the linch pin (pos. 1)
- Push the ladder in the ladder guide (pos. 2) from above
- Secure the ladder below on the ladder fixture (pos. 4) using the insert lever (pos. 3)

3.7. Mounting the wheel set



- Set up the masonry working platform and raise using the operating controls (pos. 1)
- Insert the wheel set (pos. 2) on the side of the masonry working platform and secure using the spring lock (pos. 2)

3.8. Wheel set parking brake



WARNING



Unintentional rolling of the masonry platform

Personnel injury or property damage may result.

- Secure the masonry platform against unintentional rolling.
- Use the wheel brake.

- The parking brake (pos. 3) presses on the wheel and prevents rolling away

4. TRANSPORT

4.1. Vehicle transport



CAUTION



Unsafe transport

Personnel injury or property damage may result.

- No persons or objects may be on the masonry working platform during transport!
- Transport the masonry working platform only completely lowered and with all railing elements removed.
- Only use suitable lifting and securing materials.

Transport on the lorry is only allowed under the following conditions:

- Masonry working platform is lowered and is not on the wheels of the wheel set
- Ladder and all railing elements are removed
- Masonry working platform is strapped to the crane eyes

4.2. Forklift transport



CAUTION



Unsafe transport

Personnel injury or property damage may result.

- No persons or objects may be on the masonry working platform during transport!
- Transport the masonry working platform only completely lowered and with all railing elements removed.
- Only use suitable lifting and securing materials.

- Masonry working platform is lowered using the operating controls
- Remove supply cable from the power connection
- Remove operating controls
- Ladder and all railing elements must be removed
- Drive the forks of the forklift into the channels
- Lift carefully and observe the weight distribution

4.3. Moving with the construction crane



CAUTION



Unsafe transport

Personnel injury or property damage may result.

- No persons or objects may be on the masonry working platform during transport!
- Transport may only be done when the masonry working platform is lowered and all railing elements are removed.
- Only use suitable lifting and securing materials.
- Do not stand under a suspended load!

- Masonry working platform is lowered using the operating controls
- Remove supply cable from the power connection
- Remove operating controls
- Ladder and all railing elements must be removed
- Hang the slinging equipment in the four crane eyes
- Lift carefully and observe the weight distribution

4.4. Moving with the wheel set



WARNING



Danger of crushing by a masonry platform without an operator

Personnel injury or property damage are the result.

- Moving the masonry platform on wheels over inclines or declines is prohibited!
- Masonry working platform may only be moved if there are no persons or objects on the masonry working platform!
- The wheels may only be used for short stretches and on level concrete surfaces.

- Mount wheel set and move the masonry working platform until the lower frame raises
- Two persons can push the masonry working platform
- To secure the masonry working platform raise until the frame touches the ground

5. OPERATION

5.1. Operation



WARNING



Leaving the masonry platform

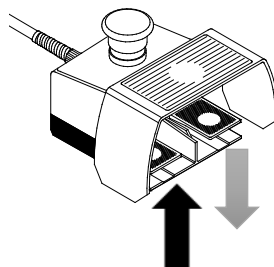
Danger of crushing between the lift scissors or falling may result.

- Getting onto or leaving the masonry working platform when in the raised condition may only be done using the emergency escape (ladder).
- The masonry working platform must only be used with the railings designed for it!



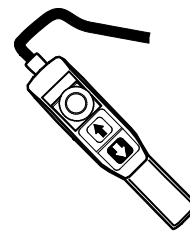
The masonry working platform must not be overloaded. Observe the permissible carrying load!

Foot switch



Manual control

or



5.2. Shutdown



The masonry working platform must be moved into the lowest position when switching off and protected against accidental switching on by unauthorised persons. The main switch can be secured with a shackle lock.

- Lower the masonry working platform completely down using the operating controls
- Set the main switch to the OFF position
- Remove supply cable from the power connection
- Secure the main switch with a shackle lock

5.3. Interruption of operation



The masonry working platform must be moved into the lowest position when switching off and protected against accidental activation by unauthorised persons. The main switch can be secured with a shackle lock.

- Lower the masonry working platform completely down using the operating controls
- Set the main switch to the OFF position
- Remove supply cable from the power connection
- Secure the main switch with a shackle lock

6. DISMANTLING



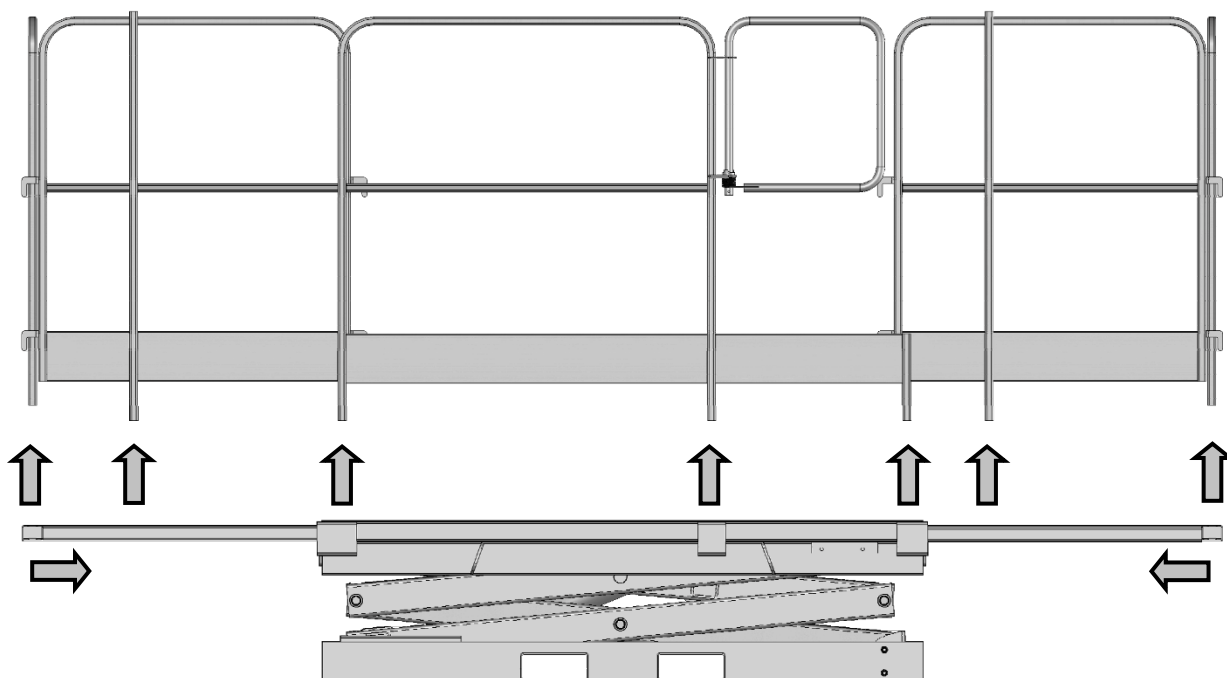
CAUTION



Unsafe transport

Personnel injury or property damage may result.

- No persons or objects may be on the masonry working platform during transport!



- Lower the masonry working platform completely down using the controls
- Remove railing elements, ladder, ladder guide and ladder fixture
- Push in and lock catwalk
- Switch off the masonry working platform using the main switch
- Operating controls and supply cable are disconnected



After switching off, the masonry working platform must be protected from restarting by unauthorised persons. The main switch can be secured with a shackle lock.

7. MAINTENANCE



WARNING



Maintenance and repair work

Personnel injury or property damage may result.

- Maintenance and repair works must only be carried out by qualified personnel.
- Pull the power plug before any maintenance or repair work.
- The masonry working platform must be secured against activation by other people.
- The masonry working platform must always be well secured against possible lowering during repair or maintenance work (risk of crushing).

Cleaning

To protect surfaces no aggressive cleaning agents may be used.

Hydraulic oil

Set a suitable collection container with funnel under the oil drainage plug. Dispose of used hydraulic oil properly and in an environmentally friendly manner at your recycling station. Especially pay attention to the safety and maintenance procedures!

Lubrication

Use only high-quality grease which meets the specifications on lubrication nipples. The lubricant used for the masonry working platform is called "Energrease LS2 BP".

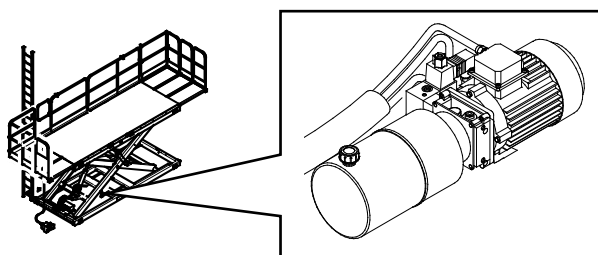
7.1. Service

	daily	weekly	monthly	before each use
Thoroughly clean the machine	●			
Visual inspection for recognisable damage and deficiencies. During this, observe the wear, crack formation and deformations of the load carrying parts and the weld seams.	●			●
Visual inspection of electrical cable, hydraulic hoses and switches for damage and deficiencies	●			●
Visually inspect hydraulic system for leaks	●			●
Check hydraulic oil level in tank	●			
Cleaning the masonry working platform	●			
Check all screwed joints		●		
Screw connections	Retighten all screw connections after 20 operating hours			
Hydraulic oil change	After first 50 operating hours, afterwards every 2000 operating hours!			



Replace the hydraulic lines as needed –every 6 years at the latest!
Replacement of the hydraulic lines must be noted in the service plan!

7.2. Oil level control



- Raise the masonry working platform completely up using the operating controls.
- Oil level must be between Min. and Max.

7.3. Hydraulic oil

The hydraulic unit is filled with a biologically degradable pure hydraulic oil.
Use only one type of hydraulic oil and no mixtures.

Hydraulic oil used: AGIP Arnica Extra Plus 46



To avoid damage, only use this or another synthetic hydraulic fluid with "Estern HE" base.

7.4. Torque of screw connections

Strength class:	8.8	10.9	12.9
Dimensions	Max. tightening torque in Nm	Max. tightening torque in Nm	Max. tightening torque in Nm
M4	3.3	4.8	5.6
M5	6.5	9.5	11.2
M6	11.3	16.5	19.3
M8	27.3	40.1	46.9
M10	54	79	93
M12	93	137	160
M14	148	218	255
M16	230	338	395
M18	329	469	549
M20	464	661	773
M22	634	904	1057
M24	798	1136	1329
M27	1176	1674	1959
M30	1597	2274	2662

7.5. Regular tests

Regular tests must be carried out depending on the operating conditions and frequency of use.
Contents of regular test:

- Visual inspection of the masonry working platform with special attention paid to corrosion or other damage prone parts and welding seams
- Inspection of the mechanical, hydraulic and electrical systems paying special attention to the safety equipment
- Effectiveness of the overload equipment
- Functional check of the entire masonry working platform



The frequency and scope of the regular tests can also depend on national regulations.

The results of the inspections and the name and address of those carrying it out must be indicated in a signed inspection report.

7.5.1. Regular expert inspections

Masonry working platforms must be inspected after the first commissioning in intervals of maximum one year by an expert (manufacturer, TÜV). The masonry working platform must be thoroughly cleaned before the inspection.

General data

Manufacturer:

LISSMAC Maschinenbau GmbH
Lanzstraße 4
D-88410 Bad Wurzach

Designation: Masonry working platform MAB

Serial number:

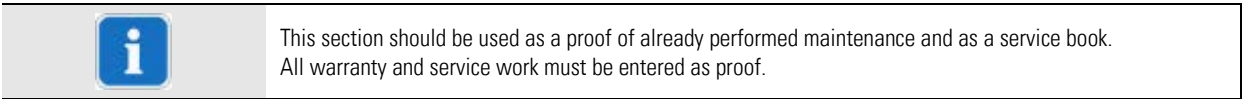
Connection of electricity:

Year of manufacture

Delivery date/

Commissioning on

7.6. Maintenance plan



Machine/type:

Serial number/year of manufacture:

[illegible]

8. TROUBLESHOOTING



WARNING



Maintenance and repair work

Personnel injury or property damage may result.

- Maintenance and repair works must only be carried out by qualified personnel.
- Pull the power plug before any maintenance or repair work.
- The masonry working platform must be secured against turning on by other people.
- The masonry working platform must always be well secured against possible lowering during repair or maintenance work (risk of crushing).

Error	Cause	Remedy
When the foot switch is activated the platform does not move up, even though the unit is running	Directional seat valve on the unit is faulty	Valve replacement only by the manufacturer or trained personnel
Platform does not move up to the end position	Too little hydraulic oil in tank	Refill oil
Platform does not move down	Solenoid valve on cylinder faulty	Valve replacement only by the manufacturer or trained personnel
	Manual button/foot switch faulty	Repair only by trained personnel
Lifting force of the platform does not reach any nominal load	Pressure is too low	Only by the manufacturer or trained personnel
Oil leak on the screwed joints	Screwed joint loosened	Tighten screwed joints
	Seal faulty	Only by the manufacturer or trained personnel
Platform jerks when lifting	Air in hydraulic system	Have manufacturer or trained personnel bleed system
Lifting speed is reduced	Temperature of the hydraulic oil is too low	Dependent on the outside temperature
		Have manufacturer or trained personnel bleed system
Assembly does not run	Foot switch faulty	May only be corrected by an electrician
	Motor faulty	

9. CUSTOM ACCESSORY EXTENSION



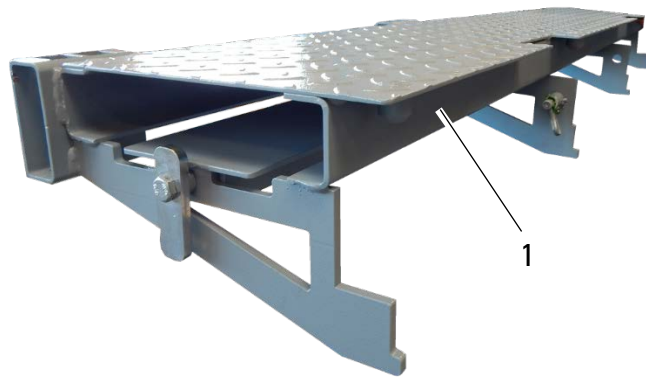
WARNING



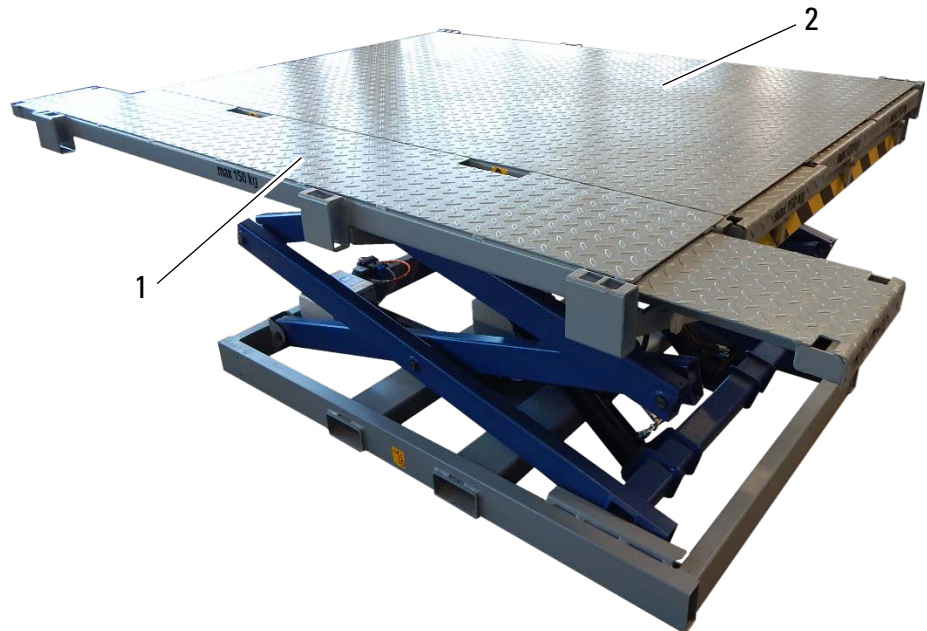
Excessive load on extension

Excessive load may result in bending the railing pocket or tipping of the masonry platform.

- Loading the extension with more than 150 kg is forbidden
- Do not load the expansion with material
- The extension is only to be used as a standing surface for max. 1 person



The extension (pos. 1) can be attached to the left and right of the masonry platform (pos. 2). With the plug-in bolts, the expansion is hung unto the masonry platform in the railing pockets and secured using locking bolts.





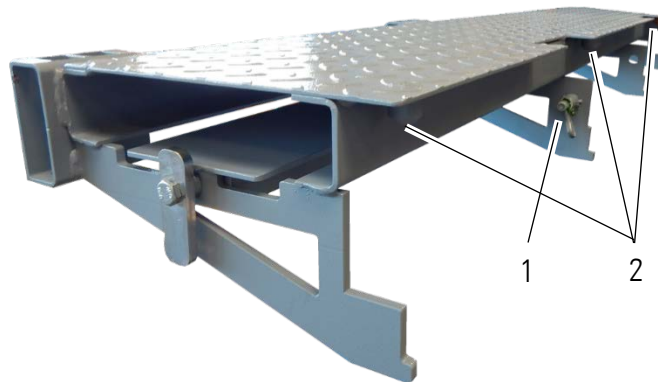
WARNING



Falling of the extension

If not properly assembled the plugging bolts can disengage and it is possible that the extension breaks away. Personnel injury may result.

- When attaching the extension always ensure that that all plugging bolts and the locking bolts are properly engaged.



- Hang the extension in using the plugging bolts (pos. 2) into the railing pockets (pos. 3) of o the masonry platform.
- Lock in the extension using the locking bolts (pos. 1).

WARNING

Suspended loads

Injury from falling parts.



- Do not stand under lifted machines or parts.
- Only use undamaged lifting gear and loading equipment with sufficient lifting capacity and length.
- The centre of mass of the machine is off-centre.

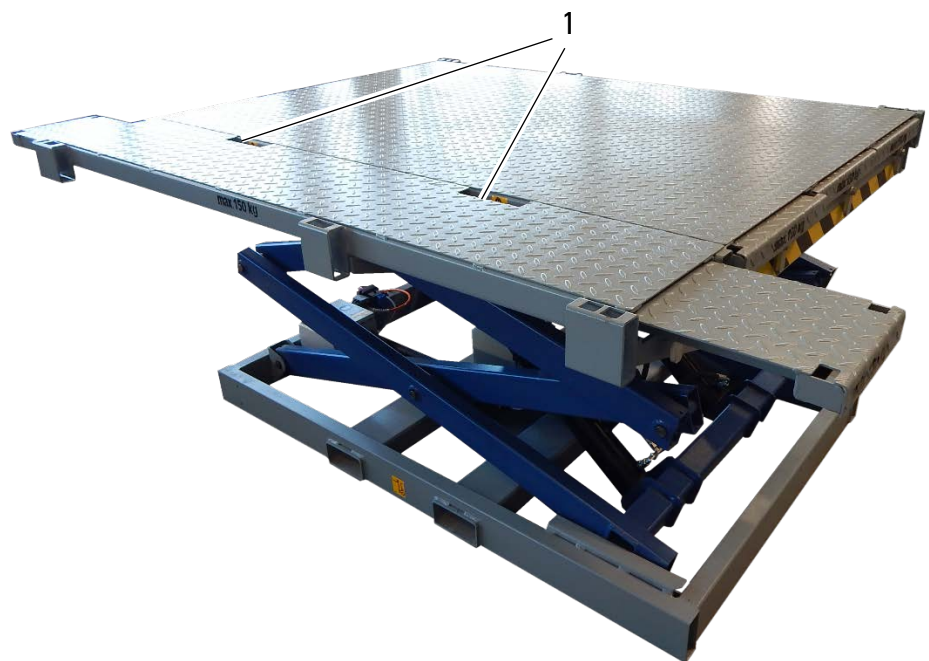
WARNING

Falling object or damage from attachments

Injuries due to machine or attached parts.



- The machine may only be transported or moved if the work surfaces are clear and all attachments are properly fastened.



- Recesses for crane transport (Pos. 1)

9.3. Pullouts on the extension

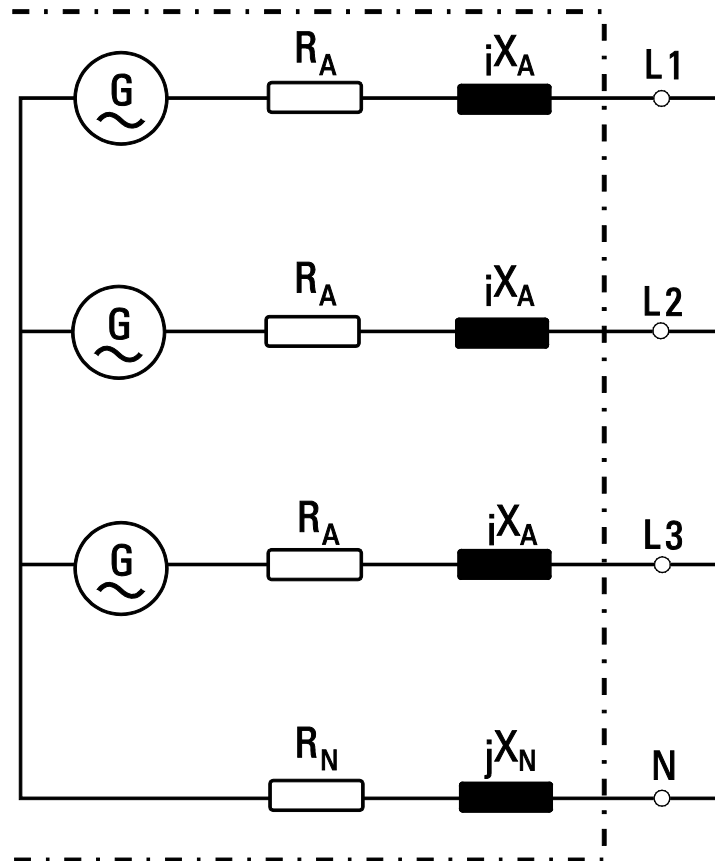


- These are fixed using the latch (pos. 2) on the extension and with the recesses (pos. 1) on the lower side of the pull outs. There are six possible pull out lengths that can be used.

10. DECOMMISSIONING

Proper disposal of all parts of the masonry working platform and also operating materials (e.g. hydraulic oil)
All EU and national regulations must be observed.

11. CONDITIONAL CONNECTIONS



Conditional connections according to EN 61000-3-3 or IEC 61000-3-11

$R_A = 0.15 \Omega$

$jX_A = 0.1 \Omega$ at 50 Hz

$R_N = 0.1 \Omega$

$jX_N = 0.06 \Omega$ at 50 Hz

12. WARRANTY

	The warranty for this machine is 12 months. For the following listed wear parts the warranty only applies if the wear is not caused by operation. Wear parts are parts that with intended use of the machine have limited operational wear. The wear time is not uniformly specified, it differs according to intensity of use. Wear parts are device specific and are to be maintained, adjusted and if required exchanged according to the manufacturers' operating manual. Wear caused by operation does not qualify for warranty claims.
--	---

- Feed and drive elements, such as toothed racks, gears, pinions, spindles, spindle nuts, spindle bearing, cables, chains, chain wheels, belts
- Seals, cable, hoses, collars, connectors, couplings and switches for pneumatics, hydraulics, , electrical
- Guide elements, such as guide strips, guide bushings, guide rails, rollers, bearings, anti-slide plating
- Tension elements from quick-coupling systems
- Plain and roller bearings, which do not run in oil bath
- Shaft sealing rings and sealing elements
- Carbon brushes, collectors
- Fuses
- Auxiliary and operating materials
- Fastening elements, such as pegs, anchors and screws
- Running and drive wheels

13. SPARE PARTS LIST

Item	Item no.	Designation	Specification	Units	Spare part Recommendation
1	1002166	FRAME, BOTTOM		1	
2	1002583	FRAME, TOP		1	
3	XXXXXX	DOUBLE SCISSORS		1	
4	205377	CYLINDER BUSH	GSM-2528-30	8	
5	1002572	RUNNING ROLLER		4	
6	1002571	BOLTS		4	
7	1043665	HYDRAULIC ASSEMBLY KPL	230V	1	X
7.1	1036804	ADAPTER BRACKET		1	
8 -10	1036802	ELECTRICAL SET 1200		1	X
8	404512	MAIN SWITCH	20A 3-pin	1	
9	1004806	POWER CONTACTOR	7.5 kW	1	
10	404511	MOTOR PROTECTION RELAY	12 - 18A	1	
11	1004803	ADAPTER PLUG		1	
12	201163	HYDRAULIC CYLINDER	80/50 X 614 MM	2	X
13	1004430	BOLTS		2	
14	1004431	BOLTS		2	
17 -19	1004436	HYDRAULIC SET MAB 1200		1	X
17		HYDRAULIC HOSE	DN 10/2SCx480 DKOL-DKOL90	1	
17.1		STRAIGHT PIPE FITTING	GE 10LR 3/8-1,0 ED X	2	
17.2		SWIVEL FITTING	SWVE 10LR 3/8 ED	2	
18		HYDRAULIC HOSE	DN 10/2SCx600 DKOL-DKOL90	1	
18.1		L-CONNECTING FITTING	ADJUSTABLE	2	
19		HYDRAULIC HOSE	DN 8/2 X 900 DKOL 90 - DKOL	2	
20	1002503	RAILING SIDE		6	
21	1002538	RAILING, RT/LFT		2	
22	1002496	RAILING WITH ENTRY		1	
23	1002482	CATWALK		3	
24	1002481	CATWALK		3	
25	621051	INTERLOCK		6	
26 -27	1004560	WHEEL SET		4	X
26		WHEEL FIXTURE		1	
27		WHEEL SWIVEL CASTOR		1	
28	820059	HOLDER FOR CONTROL UNIT MAB		-	
29	681653	MANUAL CONTROL DEVICE		-	
30	680571	FOOT SWITCH		-	
31	621115	LEANING LADDER		1	
32	622972	LADDER FIXTURE		1	

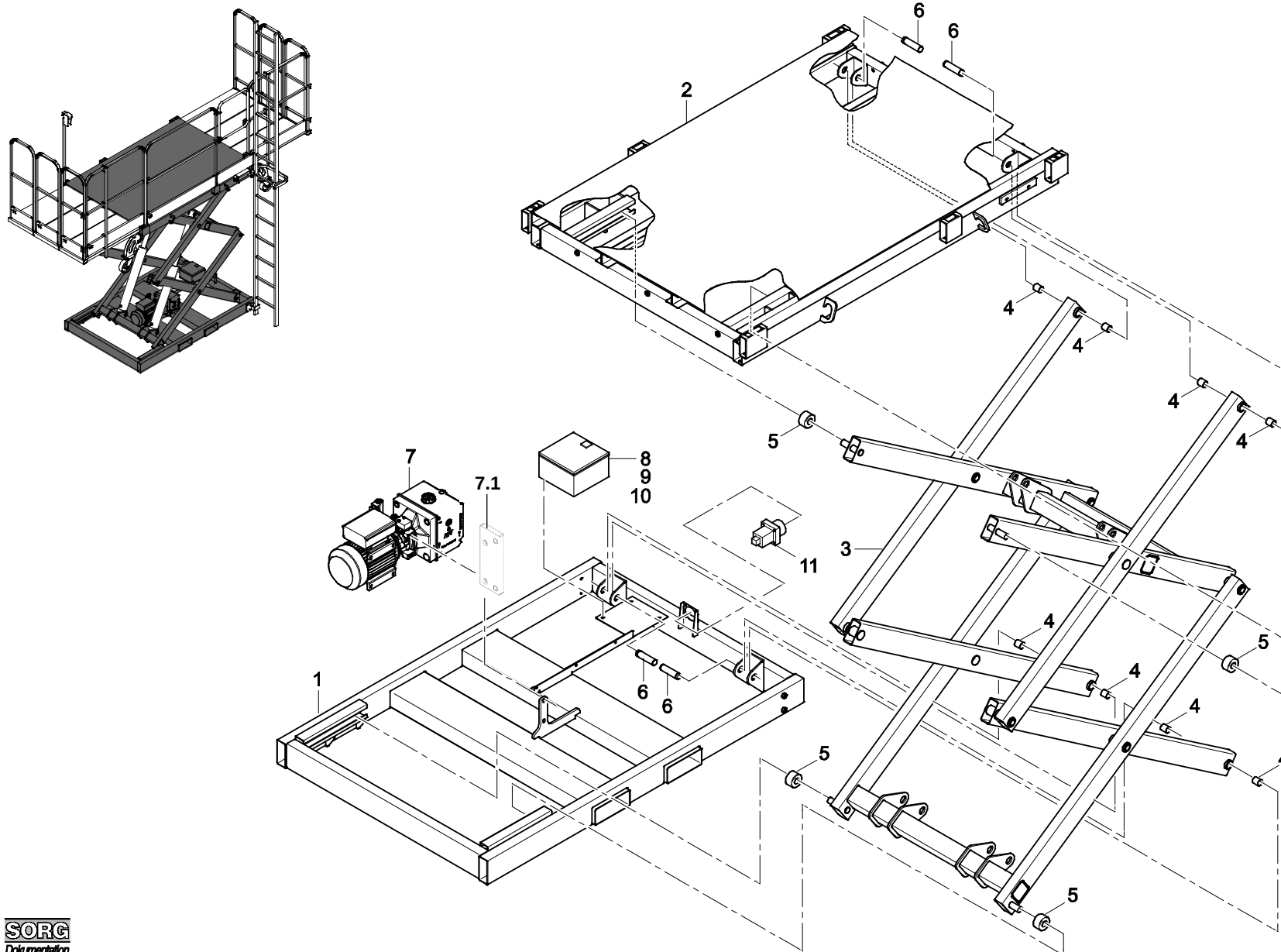
Item	Item no.	Designation	Specification	Units	Spare part Recommendation
33 -38	680274	LADDER PROTECTOR ASSBLY. MAB		1	X
33		SECURING BRACKET		1	
34		SLIDE STOPPER	25 X 25 X 3	1	
35		FOLDING SPLINT	8 X 41 X 47 MM	1	
36		KEY RING		1	
37		CHAIN	DIN 5685 26 x 3 mm, galvanised	1	
38		SLIDING GUIDE		2	
39 -42	680276	LADDER PROTECTOR ASSBLY. MAB		1	X
39		LADDER PROTECTOR		1	
40		PLUG BOLTS		1	
41		KEY RING	Ø 30 mm, stainless steel, rust-free	1	
42		CHAIN	DIN 5685 26 x 3 mm, galvanised	1	

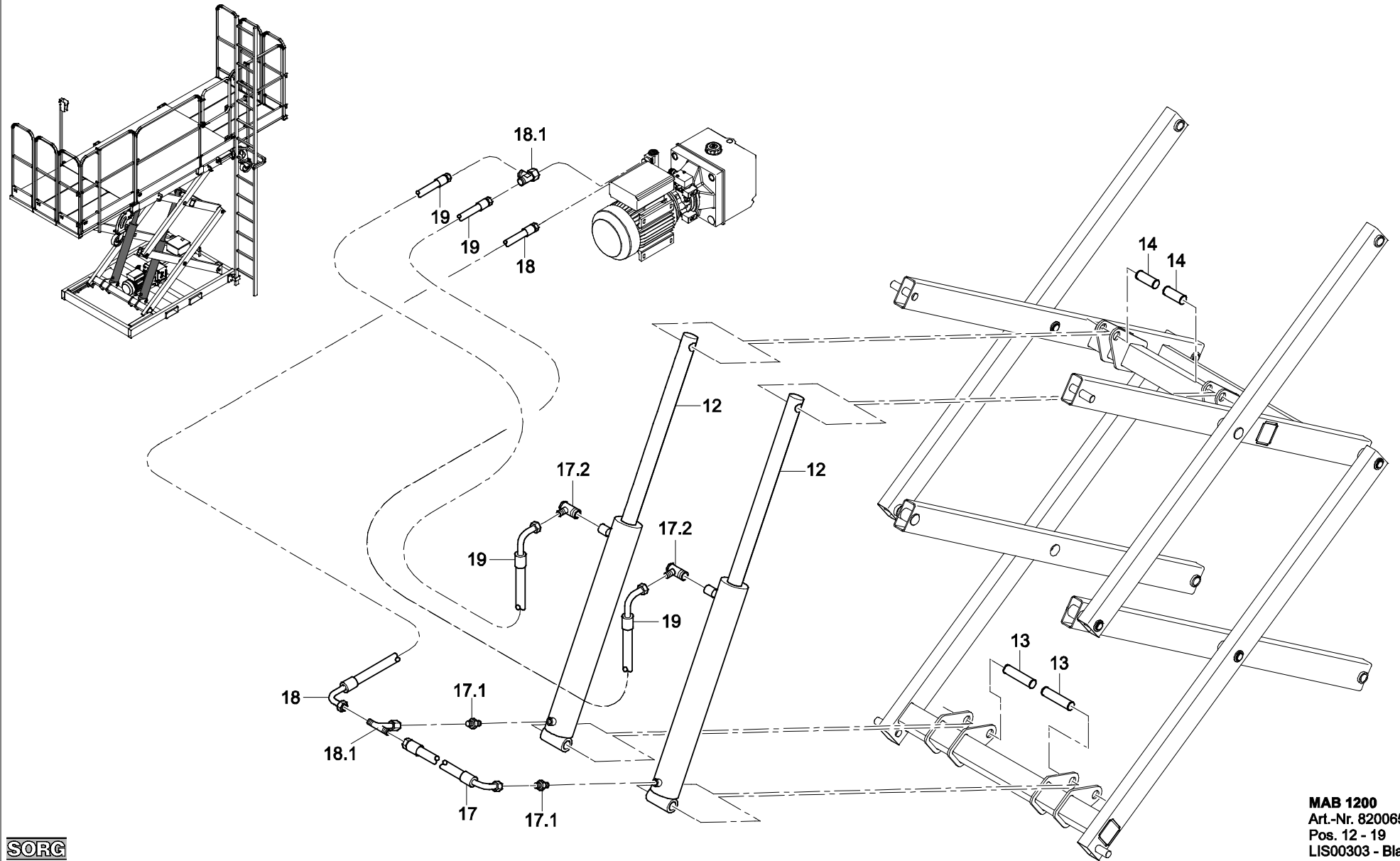


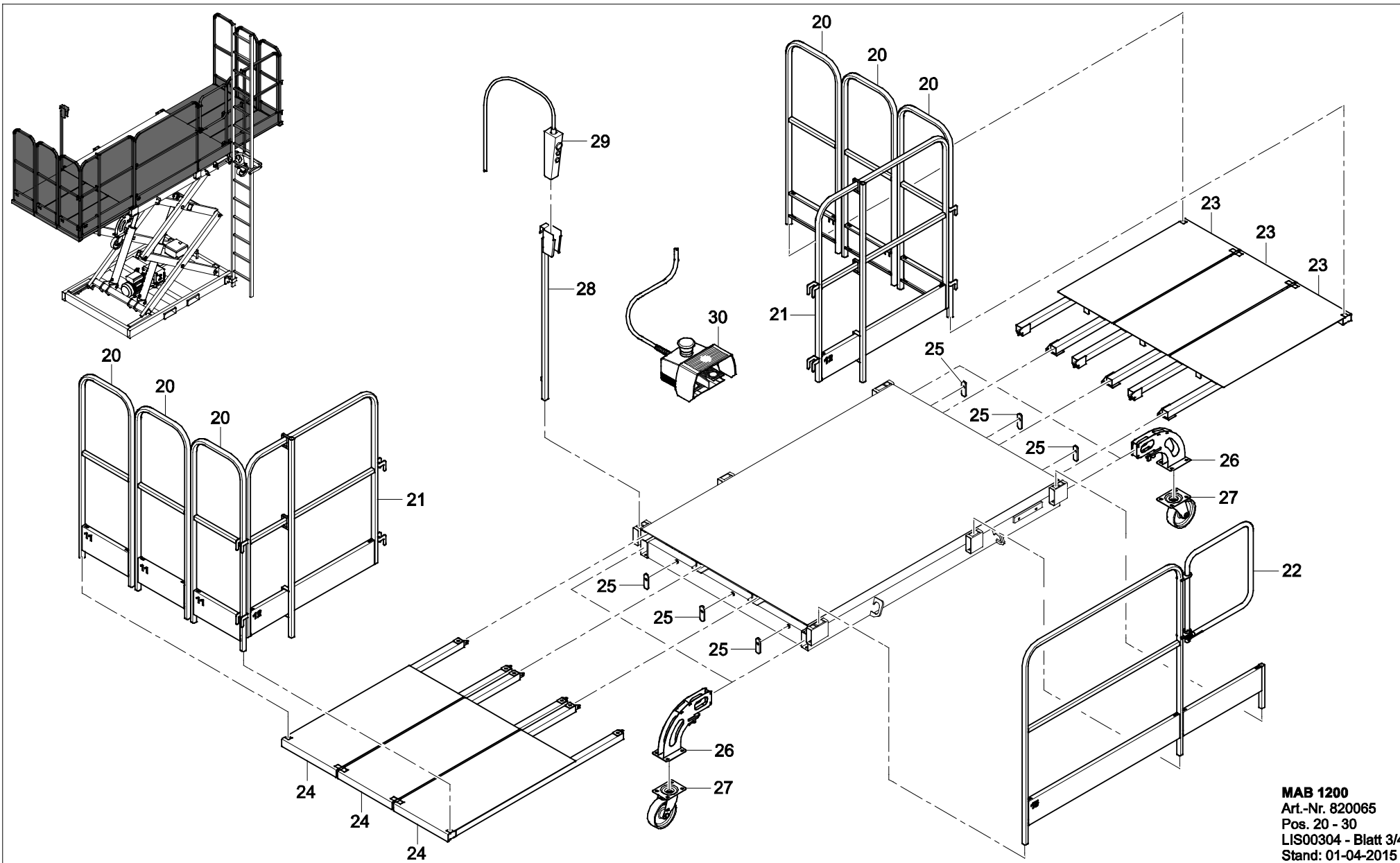
To prevent incorrect deliveries, when ordering spare parts, indicate the complete model designation, year of manufacture and the machine number!

Technical changes may be made!

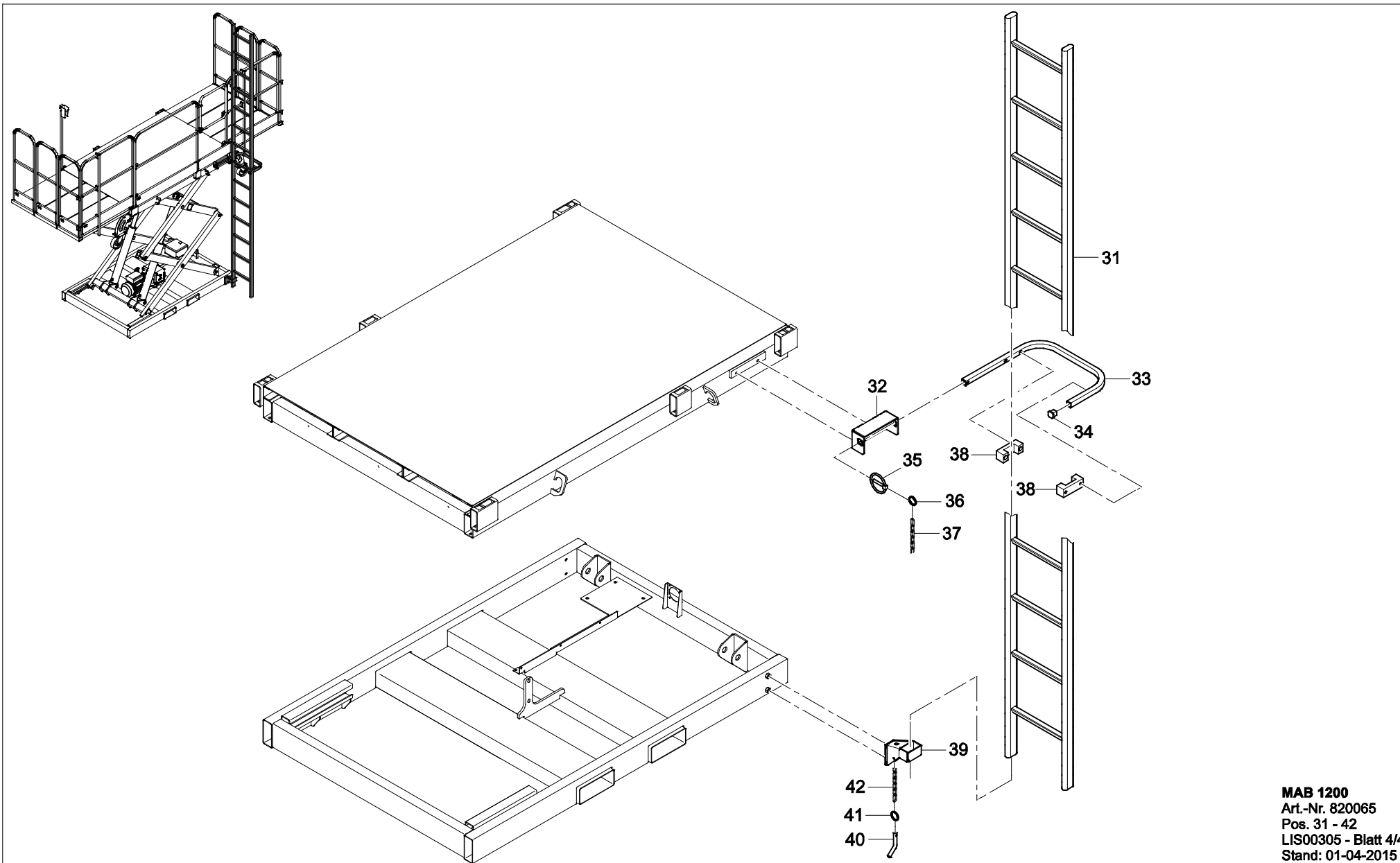
We make it explicitly clear that parts not supplied by us are also not tested and released by us. The installation and use of such products can therefore, in certain conditions, modify your equipment negatively and thus affect safety. For damages caused by the use of non-original parts and accessories, there is no liability!



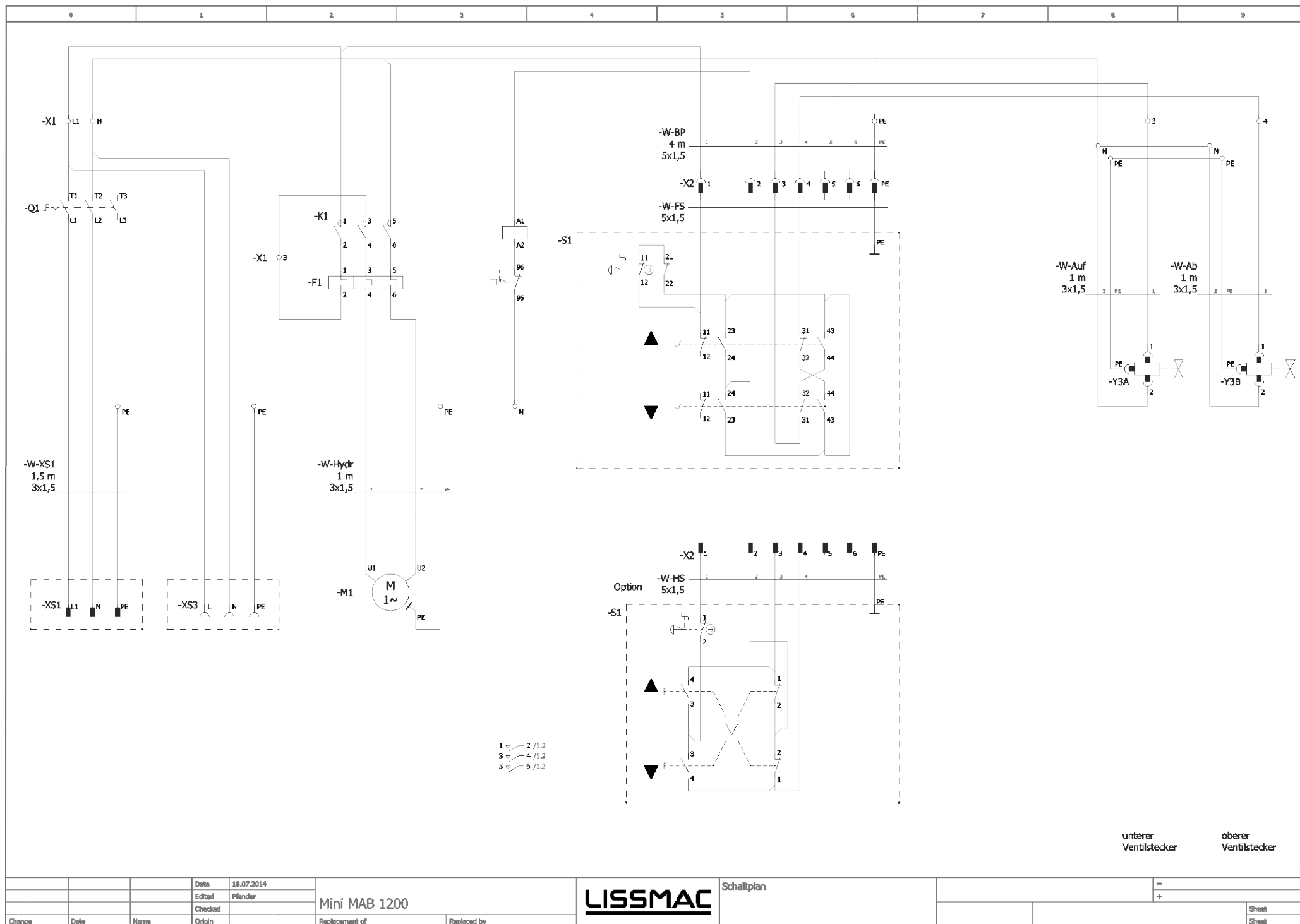


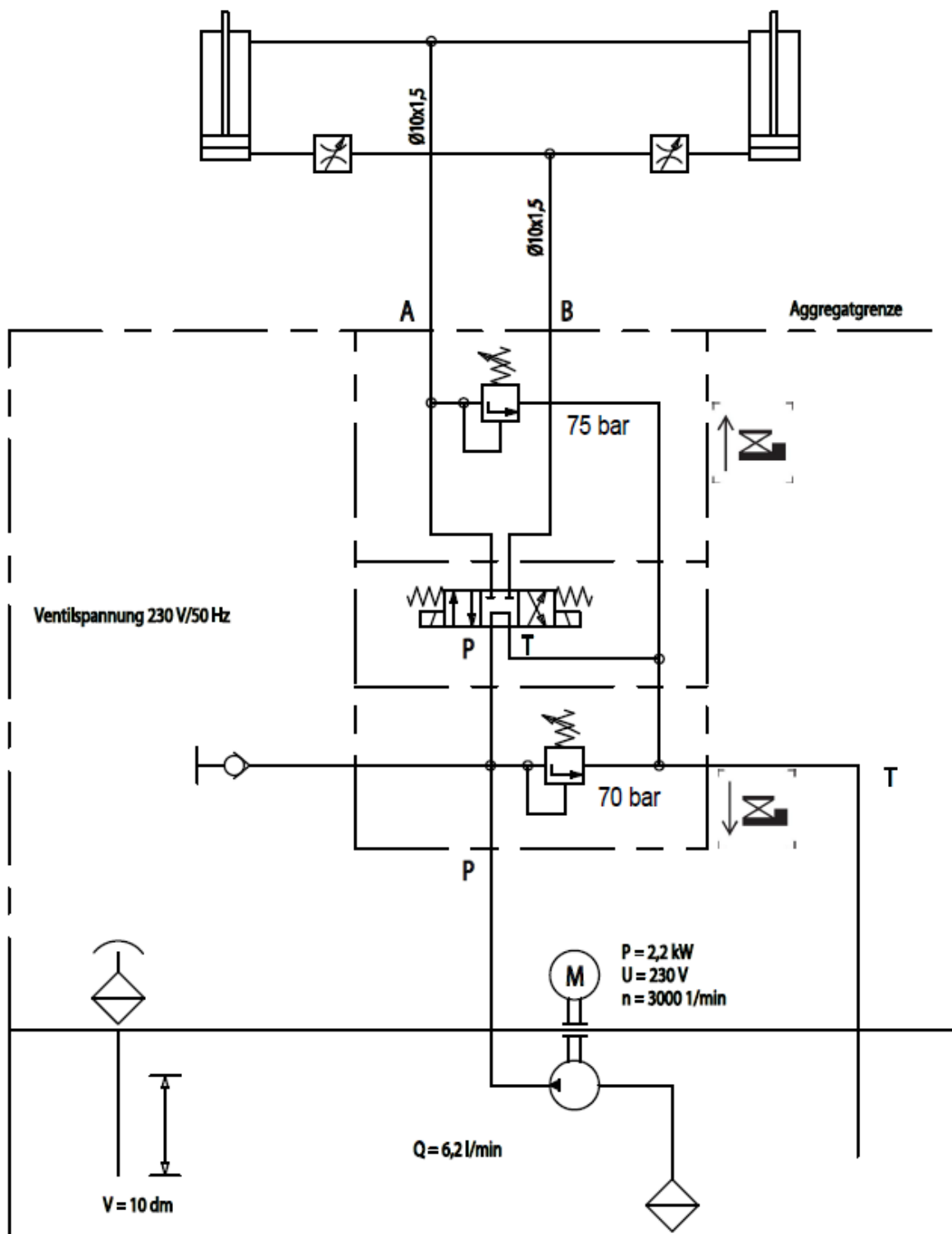


MAB 1200
 Art.-Nr. 820065
 Pos. 20 - 30
 LIS00304 - Blatt 3/4
 Stand: 01-04-2015



MAB 1200
 Art.-Nr. 820065
 Pos. 31 - 42
 LIS00305 - Blatt 4/4
 Stand: 01-04-2015







This EC Declaration of Conformity is valid for the following machine:
LISSMAC Masonry Working Platform MAB 1200.

This declaration relates exclusively to the machine in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user. It is confirmed that the machine conforms to the relevant provisions of Directive 2006/42/EC and 2000/14/EC

Manufacturer:

LISSMAC Maschinenbau GmbH
Lanzstrasse 4
D-88410 Bad Wurzach

Technical documentation retained by
LISSMAC Maschinenbau GmbH, Lanzstrasse 4, D-88410 Bad Wurzach.

Description of the machine

The LISSMAC masonry work platform MAB is a mobile lifting work platform. It is intended solely for the raising and lowering of personnel and construction materials on construction sites by competent personnel. A railing must be installed on each side of the masonry work platform as fall protection. Lifting serves to balance out the work height and limits itself to the maximum carrying capacity indicated.

	MAB 1200
Length	1800 mm
Width	1320 mm
Hoisting height	480 – 1990 mm
Hoisting speed	1.5 m/min
Load capacity	1200 kg
Drive	electric/hydraulic
Voltage	230- 400V / 50 Hz / 16 A
Weight	590 kg

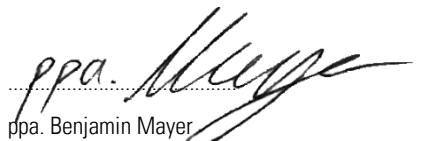
Harmonised standards:

EN 280:2016-04
EN ISO 12100 Corrigendum 1:2013-08
EN 60204-1; VDE 0113-1/A1:2009-10
EN 55014-1:2012-05; VDE 0875-14-1:2012-05
EN 55014-2:2016-01; VDE 0875-14-2:2016-01
EN 61000-3-2:2015-03; VDE 0838-2:2015-03
EN 61000-3-3:2014-03; VDE 0838-3:2014-03

Legally binding representative:

LISSMAC Maschinenbau GmbH
Lanzstrasse 4
D-88410 Bad Wurzach
Tel.: +49 (0) 7564 / 307 - 0
Fax: +49 (0) 7564 / 307 - 500
Mail: lissmac@lissmac.com
www.lissmac.com

Bad Wurzach, 24.08.2016


ppa. Benjamin Mayer
(Head of Development Construction Technology)

