

Operating instructions

construction lift - "mini FLIPPER"



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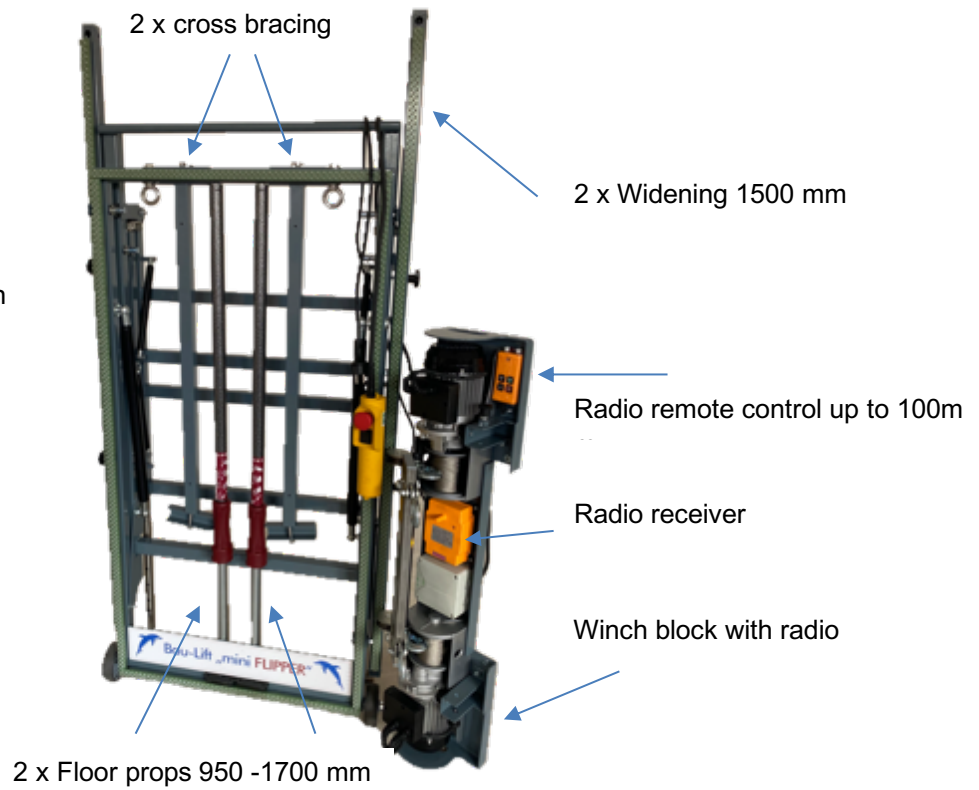
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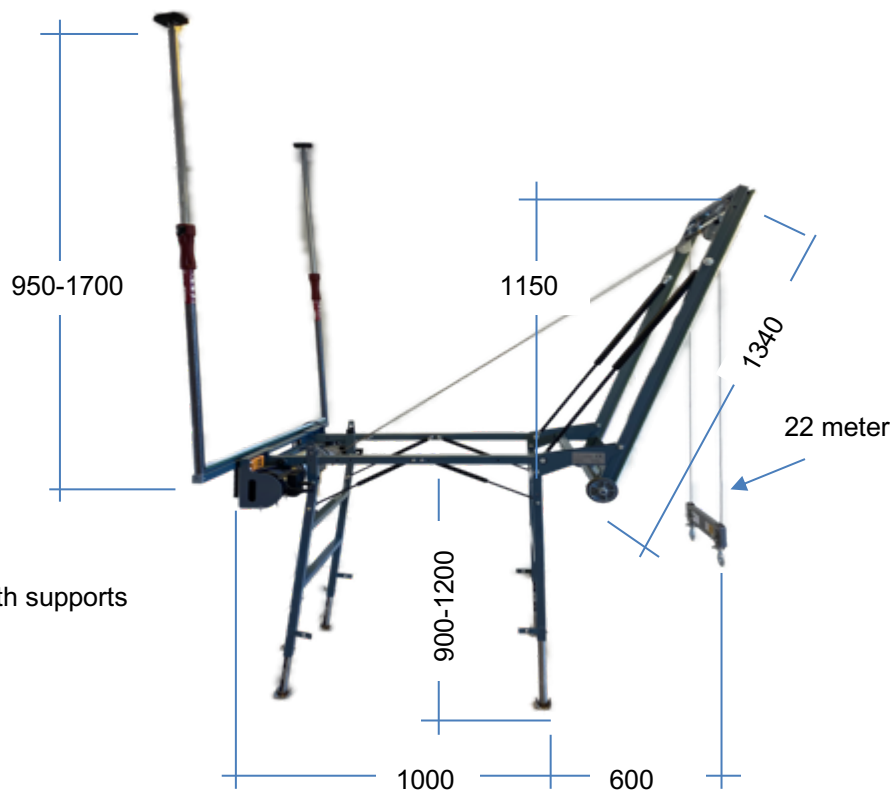
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Scope of delivery Bau-Lift „mini Flipper“ AR 150

Delivery / transport condition



Condition Built up with supports



Safety

Every user of the Bau-Lift must have read and understood these operating instructions. This applies in particular to the warning and safety instructions.

1.1 User/Operator

Operation and maintenance of the construction hoist may only be carried out by instructed persons who are physically and mentally suitable and have been instructed for this purpose. The operator must have read and understood these operating instructions and the operating regulations for cranes of the accident prevention regulation "Cranes" (BGV D6). The construction hoist operator is responsible to third parties in the working area.

Furthermore, the construction hoist must be secured in such a way that unauthorised persons cannot use the machine.

The user / operator is responsible for operational safety. The operator must observe both the load and the travel path of the load in order to be able to react to unforeseen situations at any time.

1.2 Structure of the warning and safety instructions

DANGER

The signal word "DANGER" indicates an imminent danger. If not avoided, death or serious injury will result.

WARNING

The signal word "WARNING" indicates a possibly imminent danger. If not avoided, death or serious injury may result.

CAUTION

The signal word "CAUTION" indicates a possibly imminent danger. If it is not avoided, slight or minor injuries may result.

ATTENTION

The signal word "ATTENTION" indicates possible damage to property. If it is not avoided, the unit or something in its vicinity may be damaged.

NOTE

The signal word "NOTE" denotes useful information, tips, etc.

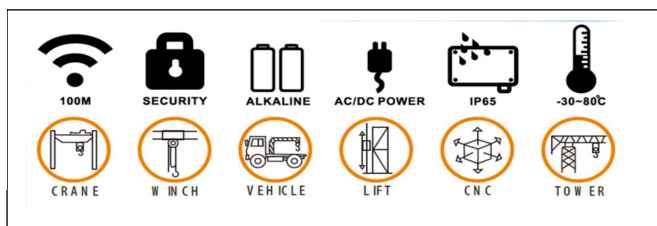
1.2 Notes to the operator

Be sure to observe all safety instructions. They serve your safety.

- Every person who is assigned to work on the construction hoist must have read and understood these operating instructions, especially the chapter "Safety".
- The operating instructions are part of the device and must always be available on the product. The operating instructions must be read, understood and observed by the operator during all work. If the contents of these operating instructions leave questions unanswered or are not comprehensible, contact the manufacturer immediately (see contact addresses).
- Only carry out the maintenance work described in these operating instructions. The replacement of components or repairs may only be carried out by service personnel authorised by the manufacturer.
- Always observe the maintenance intervals specified by the manufacturer and document the maintenance work. This serves to maintain the operationally safe condition.
- Never tamper with the safety devices. If you have the impression that a safety device is not working properly, switch off the construction lift immediately and contact the manufacturer.
- Please be sure to observe the information signs on the machine.
- Only original spare parts may be used for repairs. The use of foreign parts leads to the loss of CE conformity.
- The Bau-Lift may only be operated on mains with PE protective conductor.
- The Bau-Lift may be used in roofed areas (old buildings, shells, halls, etc.) and also outdoors.
- When used outdoors, make sure that the winches are protected from rain.
- Observe the associated safety regulations when using auxiliary and operating equipment.
- Disconnect the mains plug before transporting, maintaining or repairing the Bau-Lift. The machine is only completely switched off when the mains plug is pulled out.

4 channel HS-6 Smart Crane hoist radio

industrial remote control



1.3 Intended use

The construction lift is intended exclusively for the following uses:

Lifting and lowering of building elements, such as windows, doors, glass panes, slabs, tiles, cement bags awnings and the like.

The building elements must not exceed the following dimensions and weights:

Length x width x depth: 250 cm x 150 cm x 30 cm.

Max. weight: 150 kg

The construction elements may only be lifted or lowered with appropriately approved lifting tools.

The values specified in the chapter "Technical data" must be observed.

Der Bau-Lift kann an folgenden Einsatzorten eingesetzt werden:



Balconies or similar house extensions

- With guardrail (prevent danger of falling of man and machine)



Scaffolding

- The construction lift can be set up on a scaffold or laid down with the legs folded in.

The machine must be secured against tipping over with suitable tensioning straps.

(Observe the load capacity of the scaffolding)



Window or wall opening

- The Bauminilift can be placed on a stable window parapet and thus be used directly from the window.

The construction elements must not exceed the following dimensions and weights:

height: 150 cm

wide: 250 cm

depth: 30 cm

Maximum weight: 150 kg

The construction elements may only be lifted or lowered with rope slings. These accessories must be approved and tested for the intended use.

The values given in the chapter "Technical data" must be observed.

1.4 Use contrary to the intended purpose

Operation of the construction lift is not permitted under the following conditions:

- Lifting and lowering of persons and animals
- Lifting and lowering hot loads
- People as counterweight
- Operation in potentially explosive areas
- Defects or damage to the construction lift
- No regular maintenance
- Inadmissible ambient conditions, see Chapters 0 and 0
- Dragging of the lifting gear on house walls or the like
- Tilting of the lifting gear and swaying of the load

The following applies in principle:

Any use not in accordance with the intended use is considered to be contrary to the intended use.

The manufacturer is not liable for any damage resulting from this. The risk for this is borne solely by the operator / user.

The use of the Bau-Lift is considered to be in accordance with the intended use if the applicable national and international safety regulations are complied with and the safety regulations in the operating instructions are observed..

1.5 Description of the workplace

An area of at least 1 m wide and 1.5 m deep must be provided to the right and left of the construction lift as a workplace.

Depending on the size of the elements to be lifted, additional space must be provided for manoeuvring.

1.6 Type plate with CE mark

BAU-LIFT „MINI FLIPPER“ AR-150

Leistung:	950 W	Baujahr:	2022
Max. Last	150 kg	Gesamtgewicht:	80 kg
Ballast:	100 Kg	Hub. Geschw.	12 m/min
Spannung:	230 V / 50 HZ	Hub. Höhe	22 m



Made in Germany Richter Baulifte
Tel: 02504- 8800884 48324 Sendenhorst



Picture. 1: Sticker on the crossbar

► **NOTE**

All signs are attached to the outside of the construction lift.

1.7 Safety devices

There is an increased risk of injury if safety devices are damaged, modified, removed or put out of operation. The construction hoist may only be operated with all protective and safety devices (e.g. emergency stop switch, contact switch, etc.).

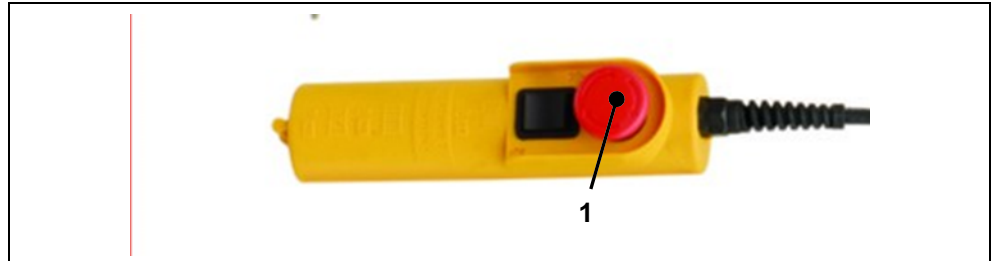
- Ensure that the safety devices are in perfect working order.
- As a matter of principle, do not dismantle, put out of operation or modify any protective and safety devices, not even during trial operation.
- Before each use, have qualified personnel check that the safety devices are in perfect working order.

► **NOTE**

A check of the safety equipment must be carried out especially after completion of maintenance, servicing and repair work.

In case of malfunctions of the safety equipment, inform the supervisor (shift leader, foreman, etc.) immediately.

1.8 Emergency stop button



Picture 2: Emergency stop button

The emergency stop button (1) is used to switch off the winches immediately in case of danger or in unexpected situations.

1.8.1 Thermoswitch

The electric motor of the Bau-Lift is equipped with a thermal switch. If the motor heats up too much, e.g. due to overloading, the thermoswitch switches the motor off. Further use is only possible after the motor has cooled down. When the temperature reaches a safe level for the motor, the thermoswitch automatically releases the motor.

1.8.2 Personal protective equipment

⚠ WARNING

Failure to wear the personal protective equipment may result in serious injury or death.

- Whenever working with the Bau-Lift, wear the protective equipment prescribed by the company, e.g. safety shoes, safety helmet, protective clothing and protective gloves.



- Do not wear loose, long hair, loose clothing or jewellery. There is a risk of injury from getting caught, pulled in or entrained on moving parts.
- Ensure that no unauthorised persons are in the danger zone.

Residual risks

The Bau-Lifts is manufactured according to the current state of the art. Nevertheless, residual risks can never be excluded.

- The user / operator and his helpers are obliged to wear the required personal protective equipment for work on construction sites.
- The area around the construction lift and around the lifting path must be cordoned off in such a way that no third persons can be in the area without authorisation.

1.9. Technical data

Designation	Value
Noise emission, sound pressure level	< 70 dB (A)
Lifting / lowering speed	10 m/min
Maximum lifting height	22 m
Wind speed during the lifting process	max. 15 km/h
Environmental conditions	
• Temperature for transport and storage	-15 - +50 °C
• Ambient temperature during operation	-10 - +40 °C
• Relative humidity	max. 85 %
• Altitude above sea level	max. 3000 m
Power supply	
• Supply voltage	230 V, 50 Hz
• Rated current	2,2 A
• Power consumption	900 W
• Fuse	10 A
Mains cable length	2 m
Protection class	IP 54
Length	180 cm
Width without winches	75 cm
Width with winches	93 cm
Height (folded)	40 cm
Height (built up)	235 cm
Ground load	min. 400 kg/m ²
Dead weight (main part, winch block)	80 kg
Max. Pull weight	150 kg

1.9.1 Storage conditions

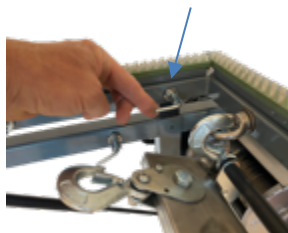
- Store in a dry and cool place
- Avoid direct sunlight

1.10 Assembly / Mounting



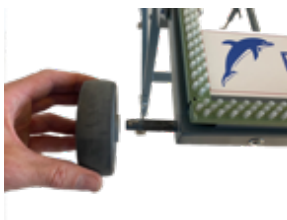
6. Coupling the motor

Unwind the ropes approx. 30 cm and hook the hooks into the ring eyelets.



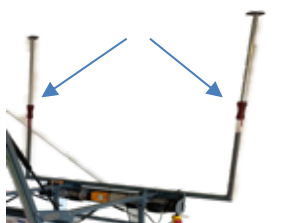
7. Tensioning / pulling in the wire ropes

Make sure that you keep your hands away from the danger area, then open the safety bolts on the left and right.



8. Fitting the front extension

If required, e.g. for larger glass panes, it is recommended to mount the front extension, for which the wheels must first be removed.



9. Fit the widening at the rear

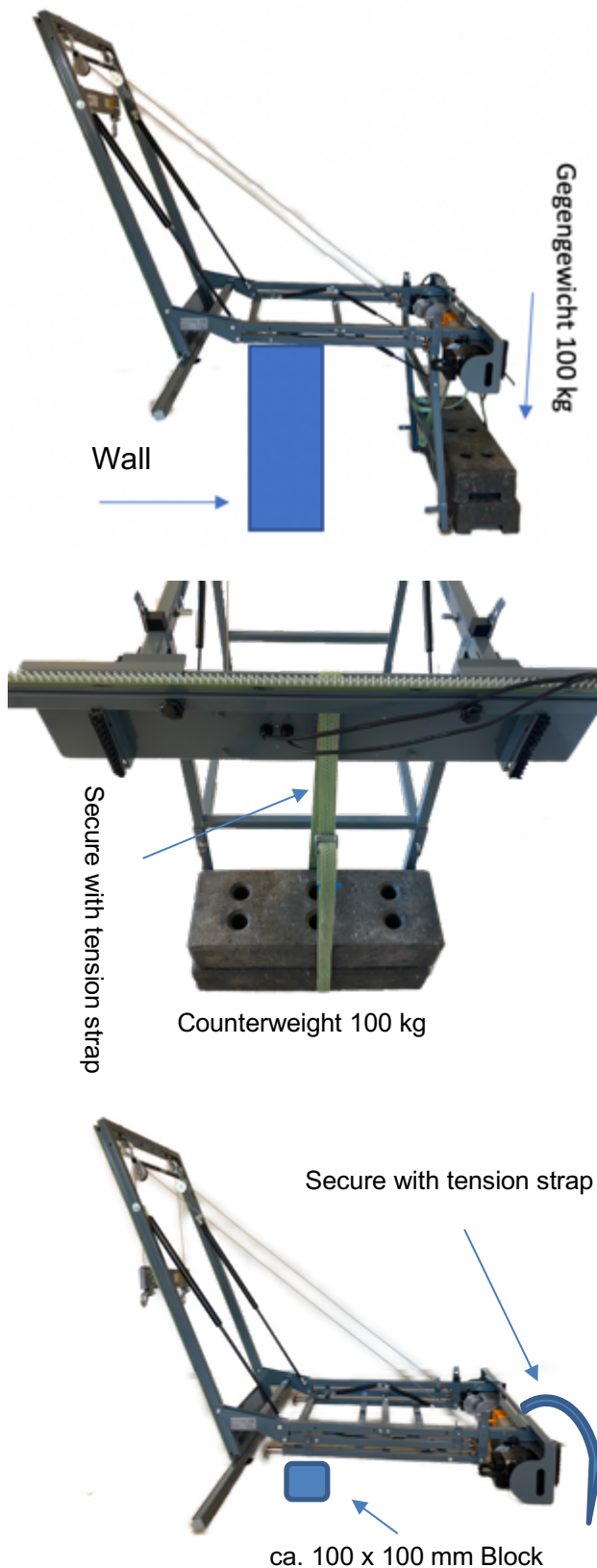
10. mount ceiling props and clamp them against the ceiling

11. The construction lift is ready for use

Mounting example on four legs Place of use on a balcony



1.10 Structure with counterweight



11. the construction lift can also be placed on a stable base, e.g. masonry, and the front legs remain folded in.

12. as an alternative to the ceiling support, the machine can be secured with a counterweight

Tie down at least 100 kg with a tensioning belt.

13. assembly example on a scaffold

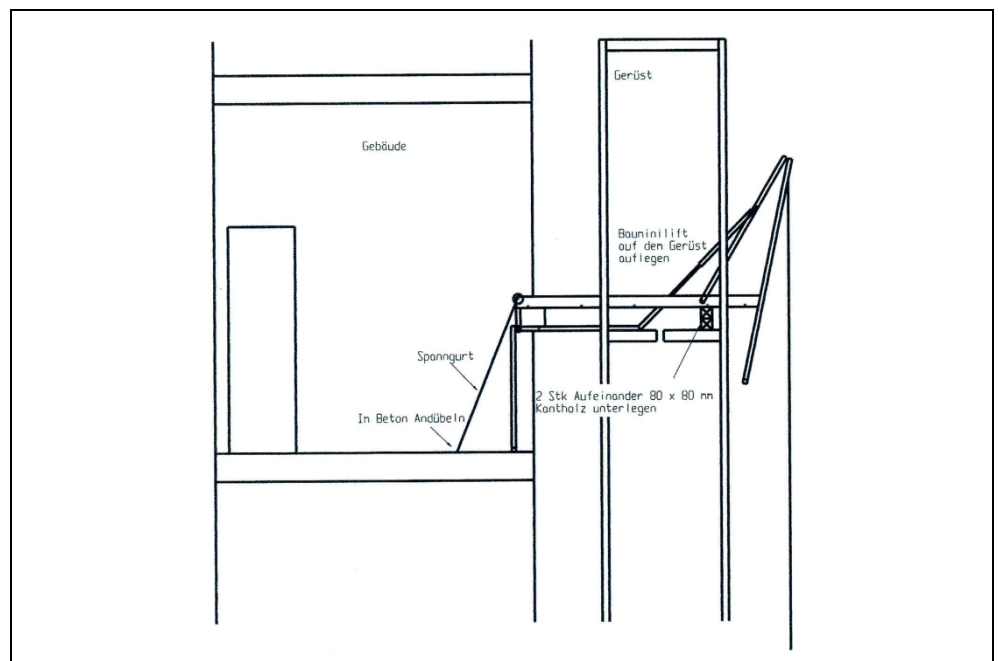
Set up lying down, in the front area level out the height with approx. 100 x 100 mm blocks.



1.11 Assembly on the scaffold

The construction lift can be set up on a scaffold or laid on with the legs folded in. In this case, the construction lift must be secured against tipping over. However, since the height of the scaffolding is rarely the same as the height inside the building,

For this reason, the construction lift must be anchored to the ground with a suitable tensioning strap and approved dowels (see the illustration below). And the picture on page 12 point 13



Picture 3: Assembly on the scaffold.

1.11.1. Scaffold classes, loading of the scaffold layers

Please note the following points if you want to use the Bau-Lift on a scaffold:

- In order for the Bau-Lift to be used on a scaffold and to be able to pull the maximum load of 150 kg, scaffold load class 4 is required.
- For scaffold load class 3, the maximum load that may be pulled with the construction lift is 100 kg.
- For scaffold load classes 3 and 4, no persons may be on the loaded scaffold levels.
- It must be ensured that the load can be pulled inside the building without entering the scaffolding.
- Only from scaffold load class 5 onwards may an additional 2 persons stand on the scaffold.

1.12. Operation

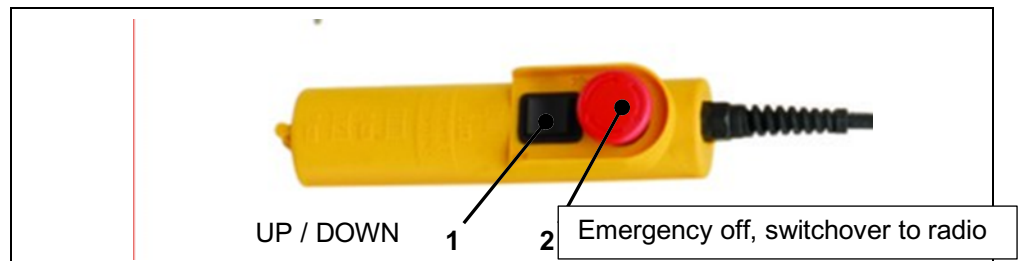
⚠ WARNING

Danger of crushing due to clothing and / or body parts being pulled into the pulley while lifting loads!

When operating the boom lift, loose clothing and / or body parts can be pulled into the running pulley.

- Do not reach into the running pulleys.
- Do not wear loose-fitting clothes.
- Ensure that unauthorised persons are not in the work area..

1.12.1. Overview of controls



1.12.2. Preparation of the unit

⚠ CAUTION

Danger of tripping!

Improper routing of the mains cable can cause people to trip and injure themselves.

- Lay the mains cable so that there is no risk of tripping and the mains cable cannot be damaged.

Before operating the unit, carry out the following points:

1. Set up the boom lift according to chapter 1.10.
2. Make sure that the 2 building supports supplied have been properly fitted to the rear and are transferring sufficient pressure into the ceiling.
3. Insert the mains plug of the Bau-Lift into a protective contact socket. Observe the connection values according to chapter 0 "Technical data".
4. Protect the electrical connections and winches against rain.
5. Before setting up, make sure that there are no projections protruding from the wall in the lifting area or lifting path, e.g. satellite dishes, flower pots, etc., on which the elements to be lifted could get caught.
6. Secure the danger area.

The construction lift is ready for use.

1.13. Lifting and lowering loads

WARNING

Danger of injury!

There is a considerable risk of injury from loads that can fall in unplanned situations.

- In any unusual situation or uncontrolled movement, immediately press the EMERGENCY stop button so that the load does not move any further.

WARNING

Danger of injury!

Improper fastening of the load to the lifting beam or slings can cause the load to fall during lifting and injure people.

- Attach the load so that it cannot fall out of the sling.

NOTE

In order to avoid damage / scratches to e.g. windows, window frames, window sills, house walls, etc., you must cover the places where the suspended transport material could hit with cardboard, polystyrene or similar before operating the construction lift.

1. Make sure that the construction lift has been assembled according to the chapter "Assembly".
2. Check that all screw connections and the counterweight are tight.
3. Make sure that the load to be lifted does not exceed the permissible tensile load of the construction lift.
4. Position the load to be lifted centrally on both hooks under the crossbar.
Pay attention to the centre of gravity of the load.
5. Attach the load to the sling.
The devices used for slinging and lifting loads must be in perfect condition and able to withstand the load to be lifted.
6. Always unwind the steel cable only to the length required to attach the load.
7. Lift the load slowly and check approx. 10 cm above the ground that the load is firmly fixed.
8. Press the rocker button in the upward direction and keep this button pressed during the entire lifting process.
Avoid jerky lifting of the load.

- Pull the load up so that it finally lies horizontally on the frame of the construction lift.
The movement of the electric wire rope hoist is stopped by releasing the rocker button or stops automatically as soon as the maximum lifting height is reached.
The load lies safely on the construction lift and can be removed from the sling.

► **NOTE**

To lower, press the rocker switch towards the bottom and keep this switch pressed during the entire lowering process. Avoid jerky lowering of the load.

1.14. Behaviour after a disruption

After a malfunction, the load may only be moved so far that it can be removed from the sling quickly and without further risk. If this is not possible, the load must be lowered. The load lifting area must be left quickly.

- Make sure that the construction lift is in perfect condition.
- Check the tight fit of all screw connections and load balancing weights.
- If necessary, unlock the emergency stop button (3) if the winches cannot be operated.
- Make sure that there are no persons in the danger zone.

The unit is ready for use again.

1.14.1. Switching off the machine

- To switch off the unit, pull out the mains plug.
The appliance is switched off.

1.15. Maintenance

▲ **WARNING**

Danger due to electric shock!

- Before carrying out any maintenance work, disconnect the mains plug and secure it against unintentional plugging in.

▲ **Warning**

Risk of injury!

Damaged or worn components can impair the function of the Bau-Lift and thus endanger persons.

- All damaged or worn components must be replaced immediately.**

1.15.1. Maintenance plan

The maintenance intervals given in the following table are guidelines that should be observed as a minimum. Depending on the use of the unit, the maintenance intervals may vary.

To ensure the proper functioning of the unit, carry out the following maintenance work.

1.15.2 Before starting work

Component	Work to be done
Screw fittings	Check all screw connections and joints for tightness.
Frame damper	Check the dampers for leaks. If there is a film of oil on the damper or the frame, the dampers must be replaced. Contact the manufacturer.
Power cable	Check the mains cable for damage. If the mains cable is damaged, do not operate the tree lift and have the mains cable replaced by a qualified electrician.
Steel ropes	Check the steel cables for damage. If the steel cables are damaged, do not operate the tree lift and have the damaged steel cable replaced by the manufacturer.
Construction supports at the rear	Check the tight fit of construction props These must transfer the pressure of the load into the ceiling.

1.15.3 Monthly

Component	Work to be done
Hooks and pulleys	Check the hooks and pulleys for wear and damage. If the hooks and deflection pulleys are damaged, do not operate the construction lift and have them replaced. Contact the manufacturer.
Motor and motor brake	Check the engine and engine brake for unusual noises. In case of unusual noises, contact the manufacturer.
Joints and plain bearings	Lubricate all joints and slide bearings with machine grease.

1.16 Declaration of conformity

as defined in the Machinery Directive Annex II 1A

manufacturer:

Richter Baulifte
Industrieweg 13
48324 Sendenhorst
Deutschland

product:

Mobiler Bau Lift „mini FLIPPER“
Seriennummer: 280176-2
Heben und senken von Lasten bis 150 kg

Authorised representative for the compilation of the technical documentation:

Alexander Richter
Walter-Gropius Str. 15
48291 Telgte

We hereby declare that the above-mentioned product complies with all relevant provisions of the Machinery Directive 2006/42/EC.

The above product complies with the requirements of the following relevant directives:

- EMV-Guideline 2014/30/EU
- The protection objectives of the Low Voltage Directive 2014/35/EU are complied with in accordance with Annex I, No. 1.5.1 of the Machinery Directive.

The following harmonised standards were applied:

- EN ISO 12100:2010, Safety of machinery - General principles for design Risk assessment and risk reduction.

Sendenhorst 25.07.2022



Name, Managing Director

1.17. Prepare slings

Lay the slings on the floor next to each other and draw a line with the pencil 2.5 metres from the start.
Draw a line 2.5 metres from the beginning and tie the first knot at this point.

Then make further knots every 25 cm.

When hanging the windows, there should be a distance of approx. 30 cm between the hook and the window.
Depending on the size of the window, choose the appropriate space between 2 knots.

The straps always hang on the hook on the side where there are no knots,

This means that the window can still be pulled over the brushes when it is lying on the boom lift.

