



User Manual



4-post lift

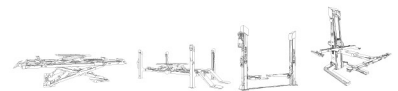
ATH Four Lift 64P

From serial number: E603250300240



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1 INTRODUCTION

1.1 General information



These instructions are an integral part of the machine. They must be read and understood by the user. No liability is accepted for damage caused by failure to observe these instructions or the valid safety regulations.



Appropriate protective clothing must be worn for all work on the equipment described.



Danger

Non-observance leads to death or serious injury



Caution

Non-observance can lead to death or serious injury.



Warning

Non-observance can lead to injuries



Attention

Non-observance can lead to material damage and impair the function of the product.



Note

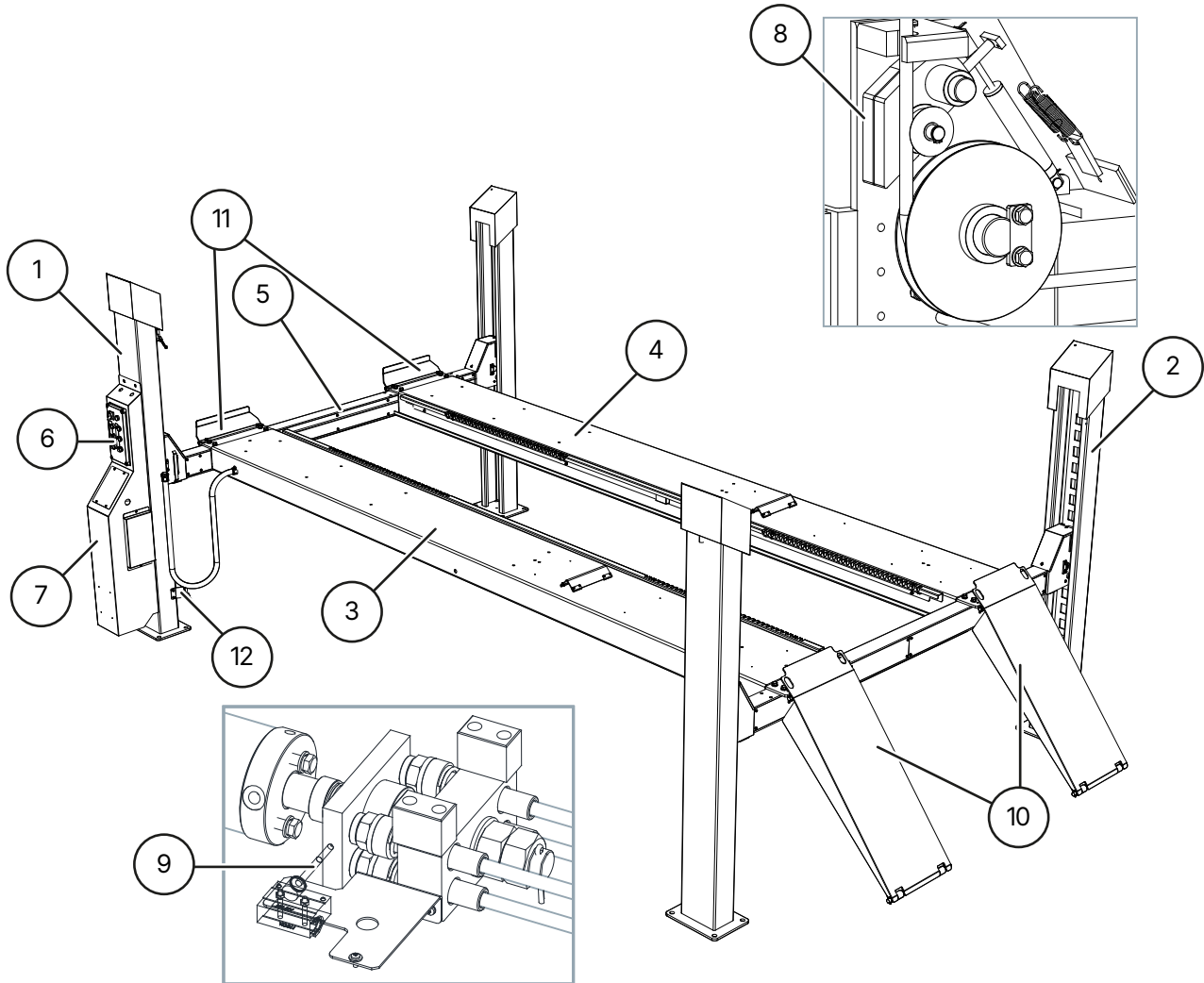
Supplementary information on the operation of the product



Tip

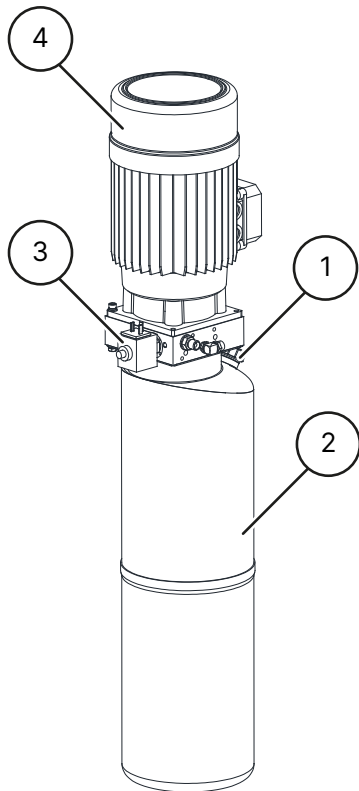
General useful information

1.2 Description



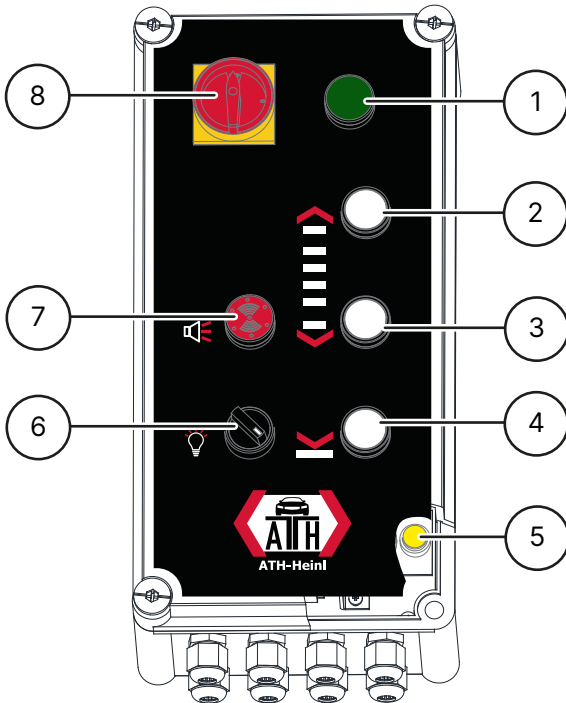
- ① **Main lifting column**
The lifting columns guide the two crossbeams during lifting and lowering. The lifting columns are used to anchor the lifting platform to the floor.
- ② **Detent rod**
The detent rods are used to engage the pawls in the park position in the event of a fault.
- ③ **P1 Main rail**
The main rails bridge the two crossbars. They are the parts of the platform onto which the vehicle is driven. The hydraulic cylinder and the mechanisms required to transmit the lifting forces (ropes, rollers, etc.) are located under the main travel rail.
- ④ **P2 Secondary rail**
It is constructed in the same way as the main rail, but does not contain any hydraulic functional parts. It is loosely mounted on the cross members on one side and can be adjusted according to the track width of the vehicle.
- ⑤ **Crossmembers**
The crossbeams are the supporting parts of the platform, with which the opposite pairs of columns are connected. Both drive-on ramps are attached to these crossbars.
- ⑥ **Control box**
This is where the complete electrical control system is located. All pushbuttons are protected by a front ring to prevent unintentional actuation. Furthermore, all movements are immediately interrupted when the buttons are released (dead-man control).

- 7 **Hydraulic unit**
 Here, the hydraulic oil is fed from the tank through a gear pump, which is driven by the electric motor, to the lifting cylinder. The oil can flow back to the tank via the lowering valve.
- 8 **Pawls**
 They prevent the platform from descending more than 100 mm in case of any deficiency and keep the platform in the parking position. Pneumatic cylinders unlock the device each time a lowering is performed.
- 9 **Rope break safety switch**
- 10 **Drive-on ramps with roll-off protection function**
 This device prevents the vehicle from rolling down when raised.
- 11 **Roll-off protection**
 This device prevents the vehicle from rolling down when raised.
- 12 **CE stop**
 This device stops the platform during downward movement at a height of 400 mm.



- 1 Ventilated tank cap
- 2 Oil tank
- 3 Solenoid valve
- 4 Engine

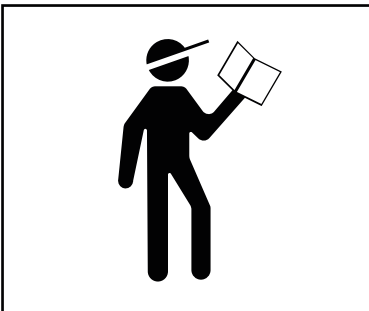
1.3 Operation



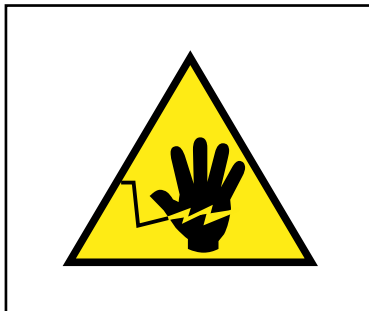
- | | |
|---|--|
| <p>① Operating light
Indicates whether the lifting platform is in standby mode.</p> <p>③ Lower button
For lowering the lifting platform.</p> <p>⑤ Button for overriding the rope break safety device</p> <p>⑦ Beeper
Gives an audible and visual signal after CE stop is reached.</p> | <p>② Lift button
For raising the lifting platform.</p> <p>④ Parking button
For parking and further lowering of the lifting platform after reaching the CE stop.</p> <p>⑥ Lighting switch
For switching the lighting kit on and off.</p> <p>⑧ Lockable main switch
For switching the lifting platform on and off and to prevent unauthorized persons from operating the lifting platform.</p> |
|---|--|

1.4 Safety instructions

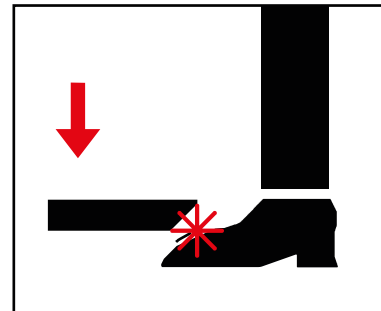
General safety instructions



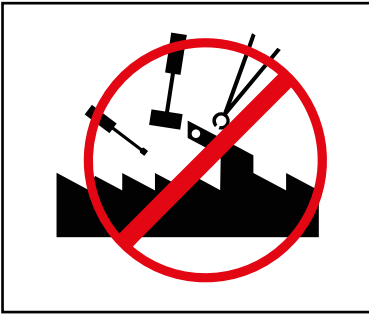
Read and understand the operating instructions before operating the lift.



Work on electrical components is only permitted to locally authorized electricians



Leave the danger zone when lowering the lifting platform



Modifications of any kind to the lifting platform are not permitted

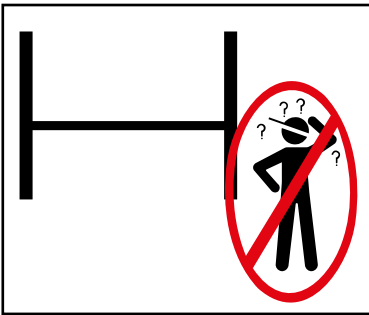


Lifting platform must not be cleaned under running water



Do not use any paint-dissolving or highly aggressive cleaning agents

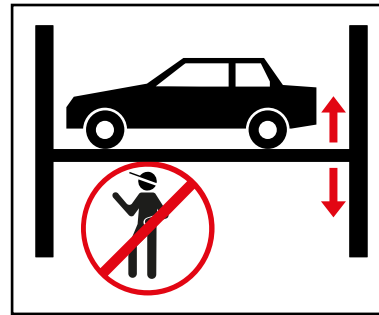
Product-specific safety instructions



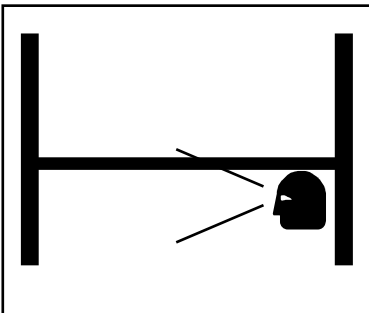
Lifting platform may only be operated by trained personnel



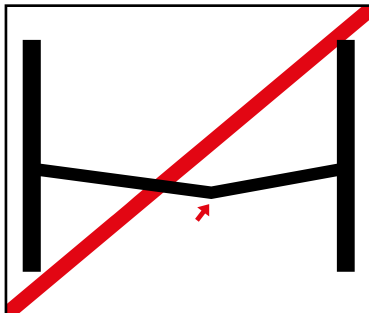
Only authorized persons are allowed to enter the danger zone



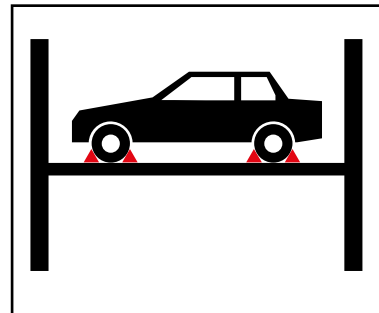
When lifting and lowering, the danger zone must be kept clear



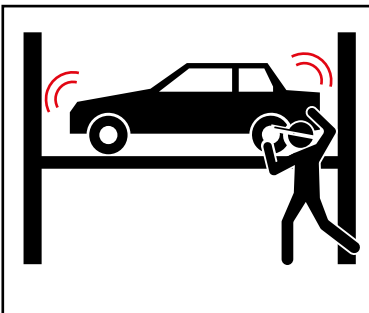
Proper maintenance and inspections are necessary to work safely



Do not work on damaged lifts



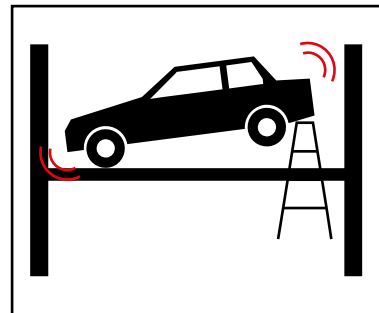
Make sure that the vehicle is secured against rolling away



Avoid strong swinging movements on the vehicle



If there is a risk of a vehicle falling, leave the danger area immediately



Watch out for obstacles when lowering



1.5 Technical data

Type	ATH Four Lift 64P
Load capacity	6400 kg
Time for lifting (2000 kg)	45 s
Time for lowering (2000 kg)	42 s
Electrical system	3/400V/50Hz
Control voltage	DC 24 V
Motor	3 KW
Upstream fuse	3 C 16 A
Connection cable	Min. 5 x 2,5m ²
Protection class	IP 43
Working pressure ²	Approx. 190 bar
Recommended hydraulic oil	Summer (10° to 45°): HVLP-D 46 (e.g.: Eni PRECIS HVLP-D) Winter (below 10°): HVLP-D 32 (e.g.: Eni PRECIS HVLP-D)
Oil quantity	Approx. 18 l
Ground anchoring	Bolt anchor: M16 x 180 (e.g.: Atrion ABL-W 16-060-180) Composite anchor: M16 x 190 (e.g.: Atrion AVA-W 16-045-190)
Anchor quantity	16 pieces
Recommended air pressure	8 bar
Permissible sound value	≤ 76 dB
Weight	2280 kg

Warning



² The factory-set working pressure is adjusted to the maximum nominal load. The pressure relief valve must not be tampered with.

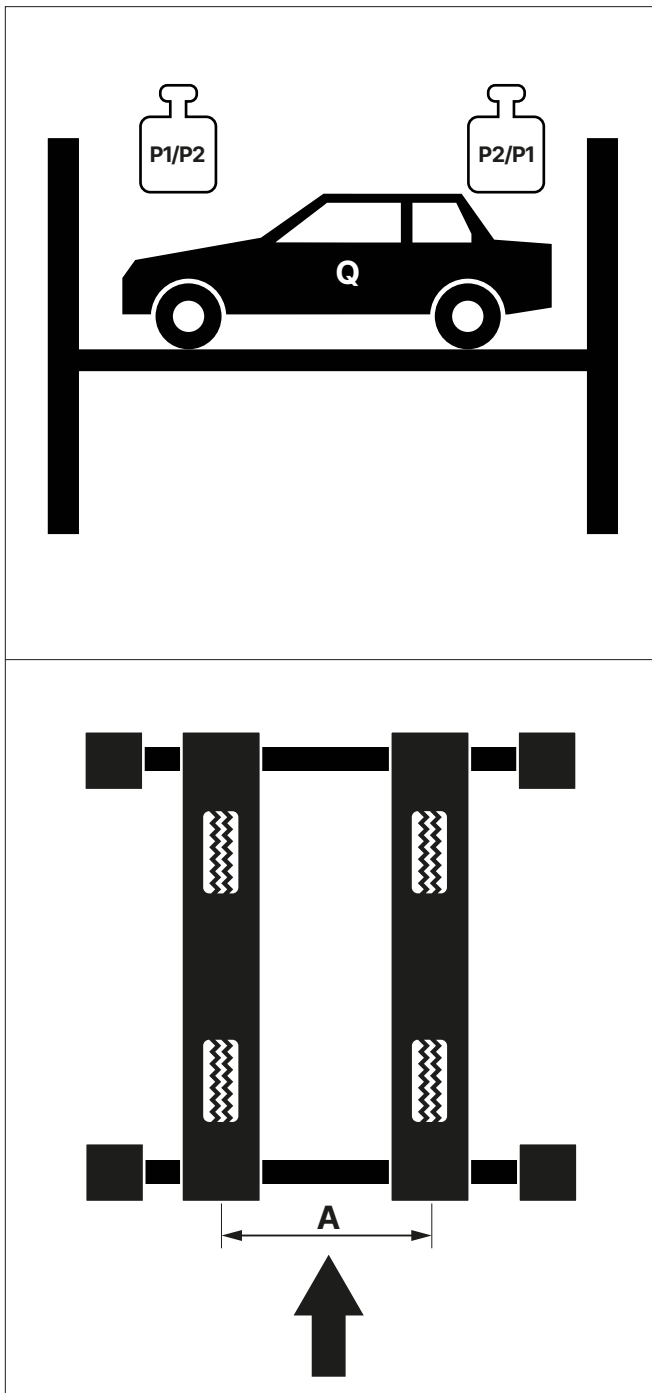
Changing the setting can lead to serious damage.

Note



If the specified nominal load cannot be raised, please contact our service team.

1.6 Load distribution



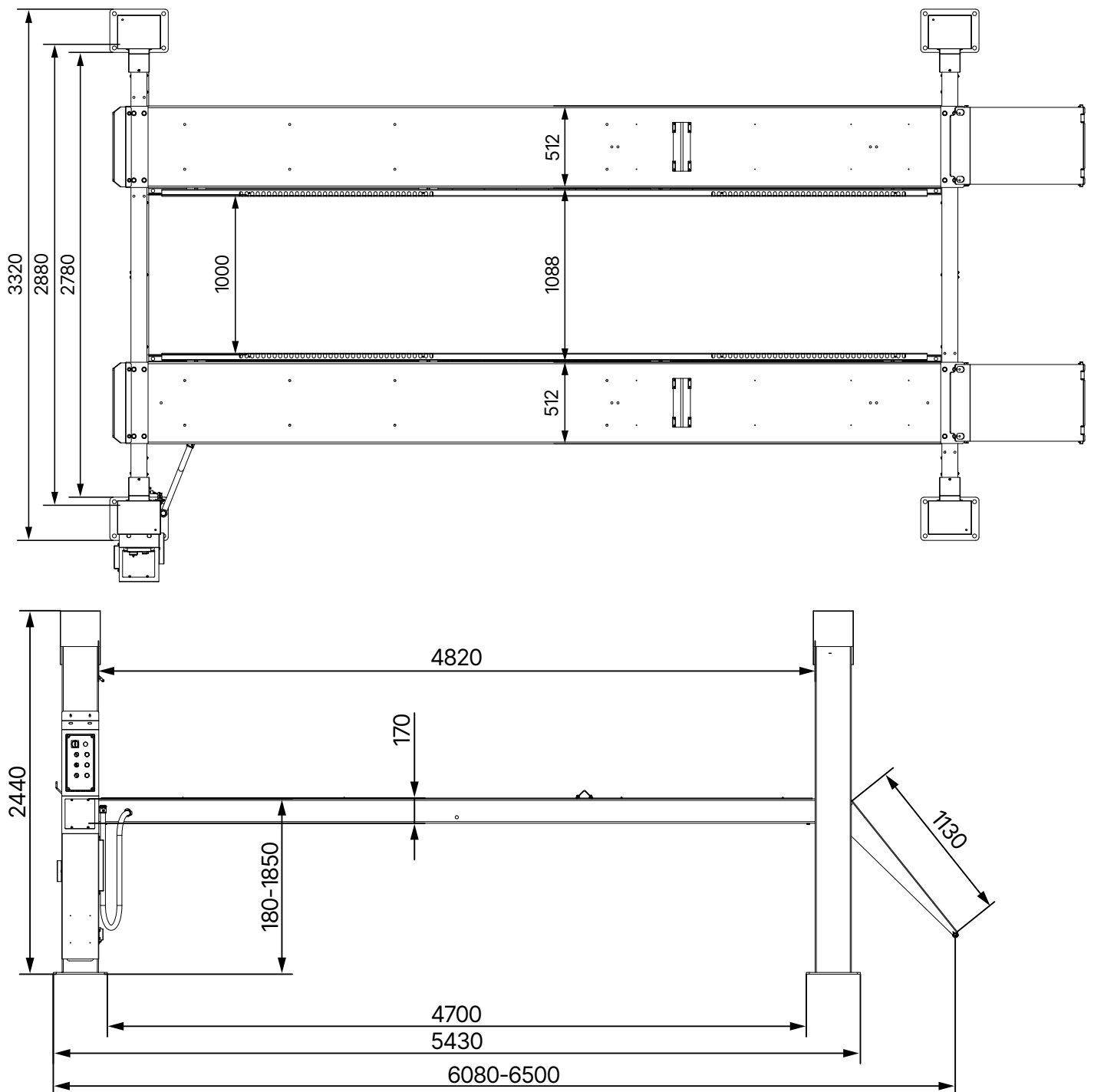
- Q** Total weight of the vehicle
- P1** Max $3/4 \times Q$
- P2** Max $1/4 \times Q$
- 3/1** Load distribution
- A²** Min. 1000 mm

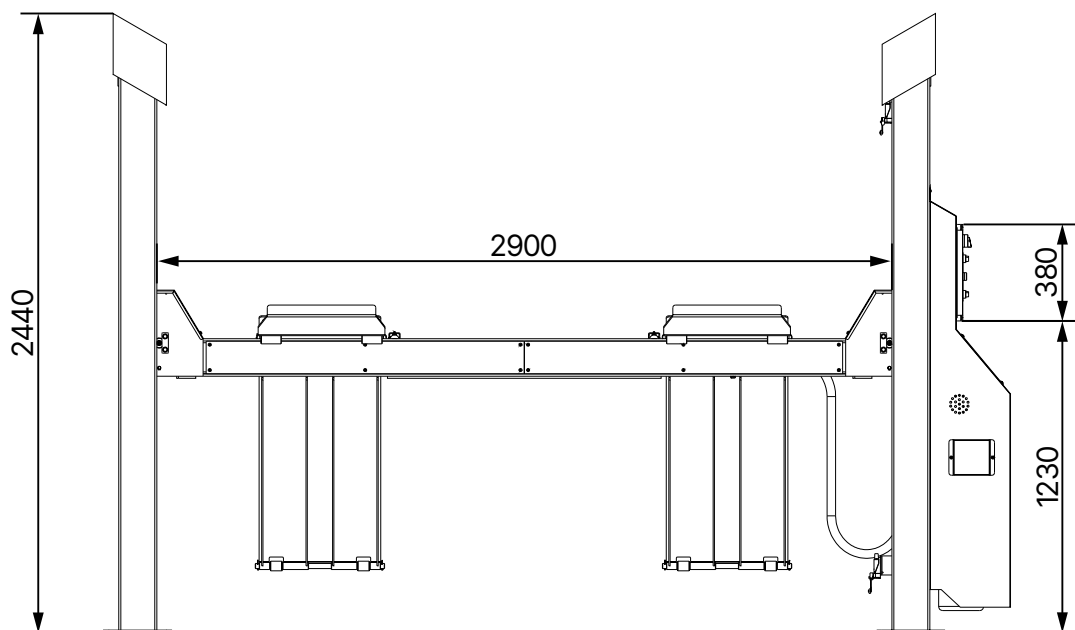
Attention



² If the distance A is smaller, the lifting capacity of the lifting platform is reduced. In such cases and others not provided for in this manual, consult the manufacturer.

1.7 Dimensioned drawing







2 INSTALLATION

The machine must be installed by authorized personnel in accordance with the instructions.



Note

The operating instructions (including protocol) are an important part of the machine or product.

Please keep it in a safe place!

The product must be inspected by a suitable and authorized company or institution after completion of assembly, handover, instruction if necessary, and subsequently at regular intervals in accordance with the regulations and legal provisions in force in the country of operation.

2.1 Transport and storage conditions

For transport and positioning of the machine always use suitable slinging, lifting or floor conveying equipment and pay attention to the center of gravity of the machine.

The machine should only be transported with the original packaging.

Data	
Weight	2127 kg
Width	650 mm
Length	5400 mm
Height	1330 mm
Storage temperature	-10 to +50°C

Transport and storage instructions



Attention

Lift carefully, support the load properly with suitable aids which are in perfect condition.



Attention

Avoid unexpected elevations and jerking movements. Be careful of unevenness, cross gutters, etc.



Danger

The removed packaging parts can pose a danger to children and animals.

This may result in serious injury or even death.

Keep the removed packaging parts in a collection place inaccessible to children and animals until disposal.

2.2 Unpacking the machine

- Remove the top cover of the packaging and make sure that no damage has been caused during transport.
- Remove the securing bolt to remove the machine from the pallet/frame. To lift the machine down from the pallet/frame, use a suitable lifting device (possibly with sling rope).



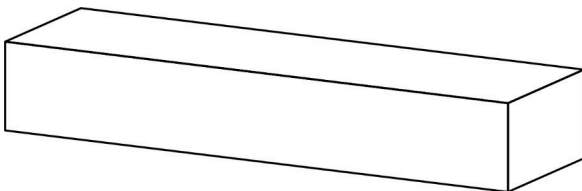
Danger

The removed packaging parts can pose a danger to children and animals.

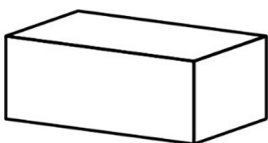
This may result in serious injury or even death.

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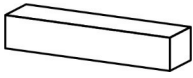
2.3 Scope of delivery



Content	Number of packages	Length	Width	Height	Weight
4 x columns 2x drive-on rails 2x crossbars 1x small parts	1	5400 mm	650 mm	1000 mm	2074 kg



Content	Number of packages	Length	Width	Height	Weight
Aggregate	1	1030 mm	280 mm	320 mm	18 kg



Content	Number of packages	Length	Width	Height	Weight
Lighting kit	1	1350 mm	150 mm	140 mm	10 kg



Content	Number of packages	Length	Width	Height	Weight
Accessories Electric box	1	1720 mm	360 mm	330 mm	25 kg

Note



If anything is missing from the package, please contact our sales department.

2.4 Location

The machine should be kept away from flammable and explosive materials, as well as from sunlight and intense light. The machine should also be placed in a well-ventilated place.

The machine should be installed on sufficiently solid ground, if necessary according to the minimum requirements of the specifications in the foundation plan.

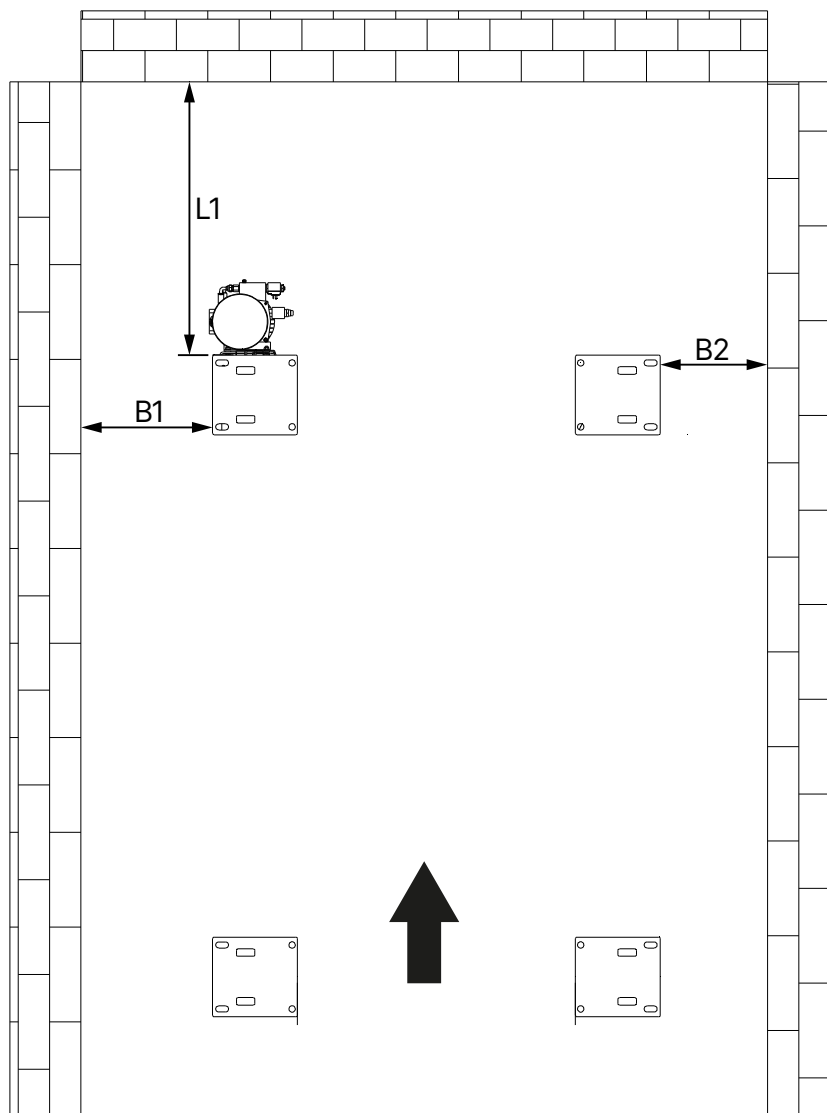
When selecting the installation site, the guidelines and instructions of the accident prevention regulations and the workplace regulations must be observed in addition to the ground conditions.

If the unit is to be installed on a floor slab, its sufficient load-bearing capacity must be checked. In general, it is recommended that a building expert be consulted for an assessment when installing the machine on floor ceilings.

The machine is only to be installed and used inside closed rooms. It does not have appropriate safety equipment (e.g. IP protection, galvanized design) for outdoor use.

Temperature	5 - 50°C
Sea level	< 1500m
Humidity	50% at 40°C - 90% at 20°C

2.5 Mounting distances



- B1** distance main column - wall - **min. 1000mm**
- B2** distance secondary column - wall - **min. 700mm**
- L1** distance columns - wall - **min. 2000mm**
- H** Required ceiling height - **depending on KFZ**

2.6 Fastening

Warning



General as well as local regulations must be observed when fixing the device.
Therefore, these steps should only be carried out by a trained specialist.

The machine is to be set up and fastened on sufficiently solid ground, if necessary, according to the minimum requirements of the specifications in the foundation plan.

The machine must be fastened at the intended points with suitable fastening material, if specified.

When selecting the installation site, the guidelines and instructions of the accident prevention regulations and the workplace regulations must be observed in addition to the ground conditions.

When installing on floor ceilings, their sufficient load-bearing capacity must be checked. In general, it is recommended that a building expert be consulted for an assessment when installing the device on floor ceilings.

2.7 Electrical connection



Attention

The general as well as the local regulations must be observed. Therefore, this step may only be carried out by a trained specialist.

Pay attention to the necessary supply line.

Voltage deviations should not exceed 0.9 - 1.1 times the nominal voltage range and frequency deviations should not exceed 0.99 - 1.01 times the frequency range. To be able to guarantee this, necessary protective measures must be taken.

At the end of the work, the direction of rotation of the motor must be checked.

2.8 Pneumatic connection



Attention

For all pneumatic systems, a compressed air maintenance unit (sometimes included in the scope of delivery) must be installed between the supply line and the system.

The air pressure of the supply line must at least correspond to the ["Technical data"](#).

The correct setting of the compressed air maintenance unit must be checked.

The compressed air maintenance unit must be serviced at regular intervals.

The maximum or minimum pressure ensures proper function without possible damage.

2.9 Hydraulic connection



Note

Before the system is put into operation or is operated with oil for the first time, the following must be observed with regard to the optimal, trouble-free as well as almost air-free function.


All hydraulic lines must be connected and tightened according to the hydraulic plan or hose designation.

All hydraulic lines and cylinders must be vented according to the hydraulic plan or hose designation.

In order to ensure the proper and safe functioning of the system and the hose lines used, it is essential to ensure that the hydraulic fluids used comply with the specific specifications and recommendations of the manufacturer.

Used fluids that do not meet the specific requirements or have unauthorized contamination will damage the entire hydraulic system and shorten the service life of the hydraulic systems used.

Note




A contamination of the plant is also possible by a new filling with oil.

The minimum requirement and minimum oil quantity must be checked or produced.


2.10 Assembly

Note




These instructions are not to be seen as assembly instructions, only hints and help are given here for knowledgeable and skilled assemblers.

Warning



Appropriate clothing and individual protective devices must be worn for the following work.

Caution




Incorrect assembly and adjustments will result in exclusion of liability and warranty.

Partially pre-assembled machines must be inspected, instructed and accepted by a competent person before commissioning.

Assembly of machines must be carried out by a skilled and qualified person.

2.10.1 Foundation plan

Attention

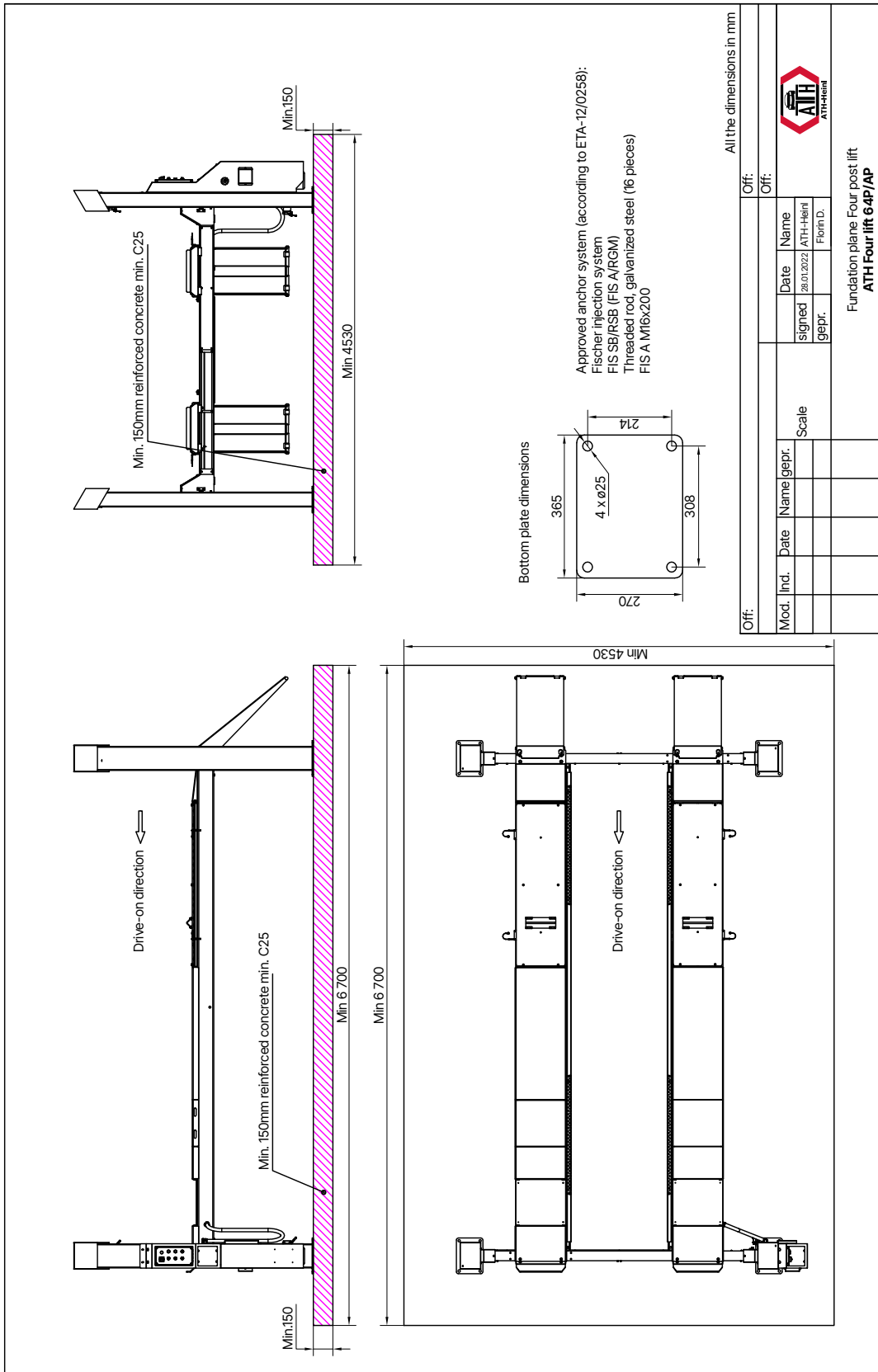


Do not mount the lifting platform on asphalt or soft screed. There must be no expansion joints or cracks that would interrupt the continuity of the reinforcement. The load bearing capacity of false ceilings must be checked by the operator.

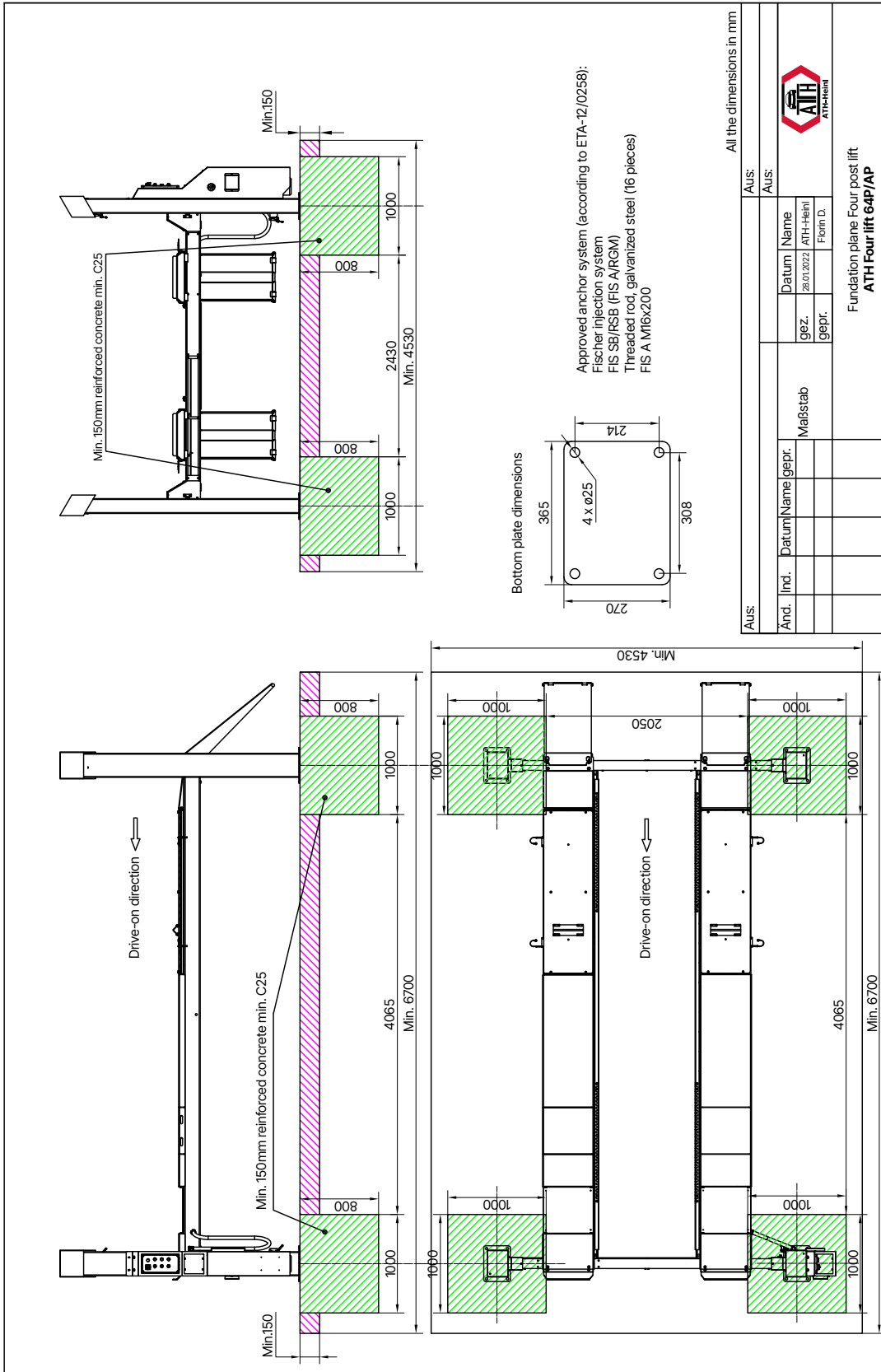
The lifting platform may be impaired in its function by standing at an angle.

Observe the specified concrete quality and curing time

Concrete quality	C20/25
Curing time of concrete	Min. 20 days



Block foundation

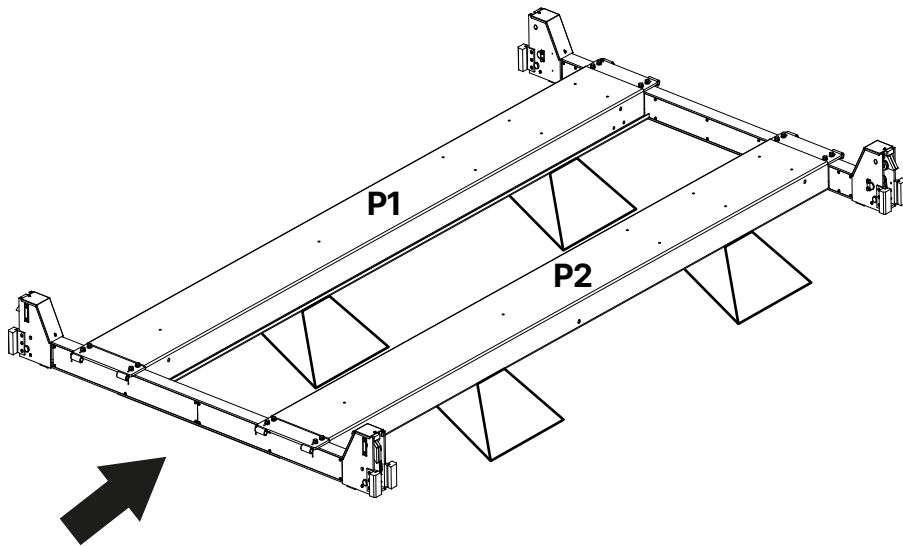


2.10.2 Assembly of the 4-post lift

2.10.2.1 Setting up the rails

Setting up and aligning the ramps with crossbars

- Unpack the lift by removing all packing materials
- Place the rails at the designated locations, making sure to position the lighting rails inwards
- Position the crossbars on suitable trestles or square timbers
- Then position and fasten the rails to the crossbars.

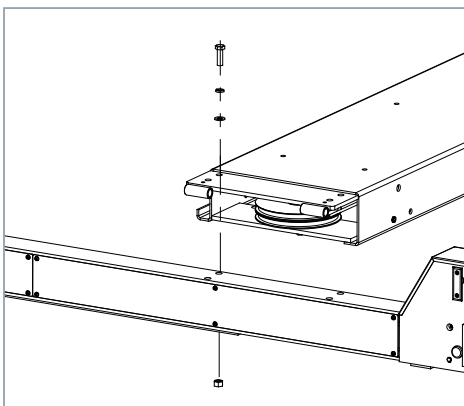


Note

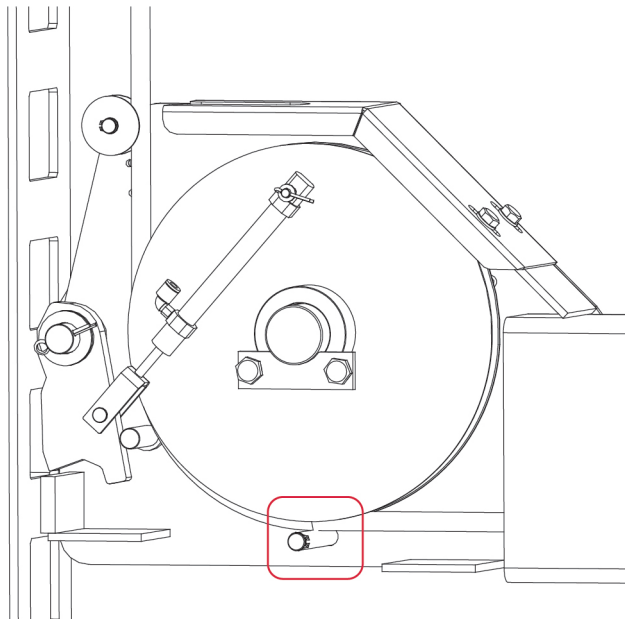


The main rail P1 (with cylinder) must be on the left side in the direction of travel. The guide rails for the axle-free jack must point inwards.

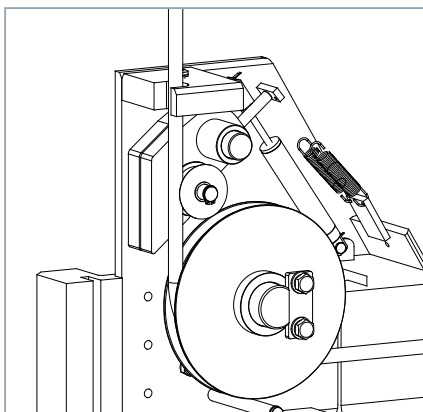
- Place the front and rear crossbars at the ends of the tracks. The tracks and crossbars should be arranged as shown.

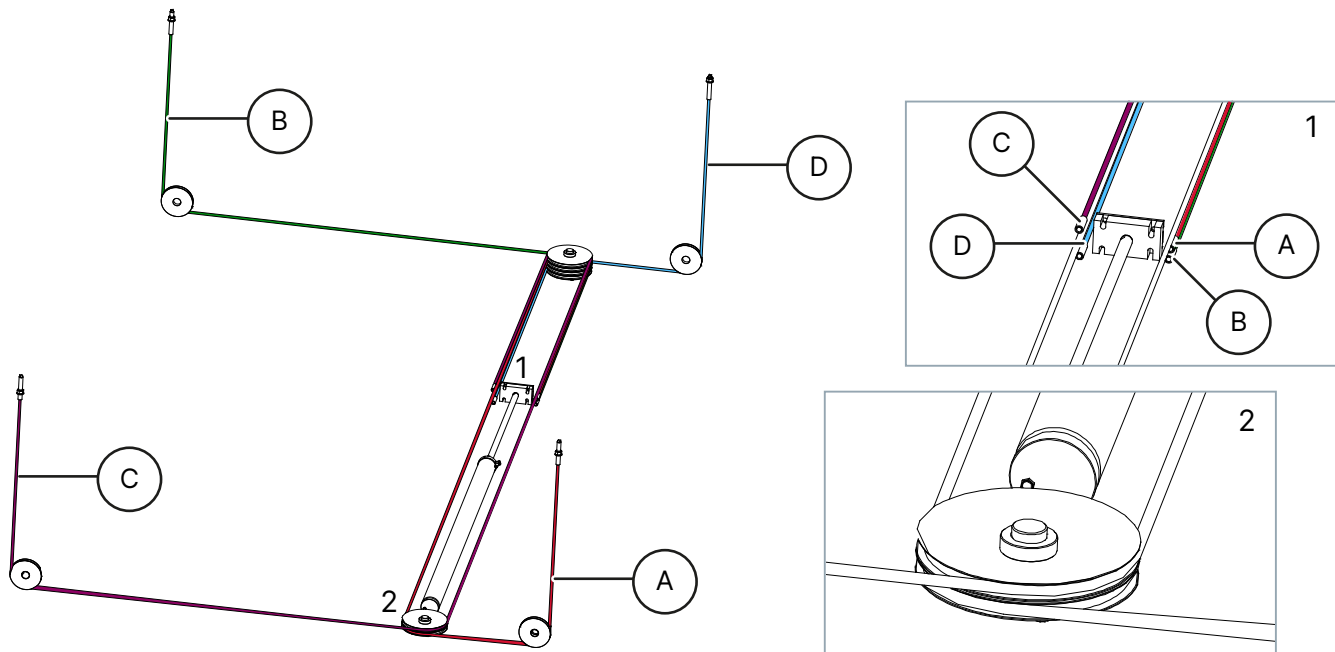


- Before installation, make sure that all accessories are installed in the tracks and crossmembers.



- Now install the hoist ropes as shown in the following diagram. When doing so, make sure to guide the hoist ropes on the slack rope safety pulley.

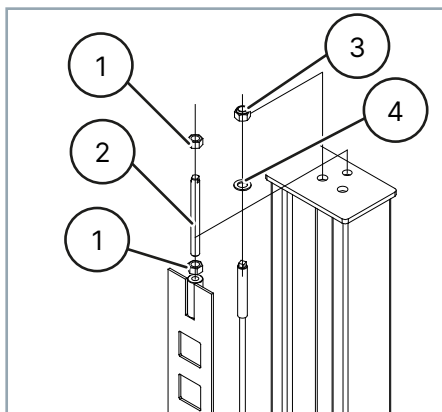




Rope	Rope length
(A)	9130 mm
(B)	5560 mm
(C)	10730 mm
(D)	3960 mm

2.10.2.2 Installation of the columns

1. Transport the columns to the installation site.
2. Move each column towards the respective end of the cross beam until it is stopped by the sliding block on the cross beam.
3. Make sure all columns are positioned in the correct location. Make sure that the columns do not fall over. Use washers if necessary.
4. Slide down the safety racks in each column. Make sure that the rack slides through the groove of the sliding blocks.
5. Feed the adjustment rack through the top of the column and secure it to the safety rack with the M20 nuts.
6. Make sure that all nuts are correctly installed.

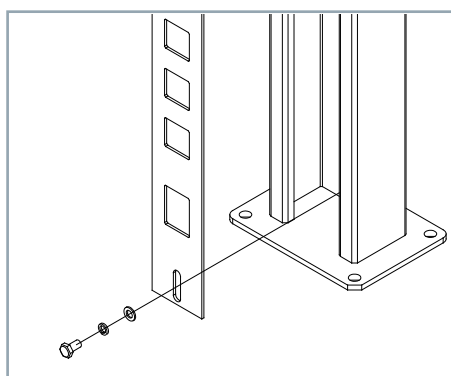


- ① Nut M20
- ② Adjusting rod
- ③ Nut M22
- ④ Washer

7. Feed the steel cable through the top of the column and install the M22 nuts on it.
8. Adjust each rack to the same height by tightening or loosening the nuts.
9. Set each rope to the same tension by tightening or loosening the nuts.

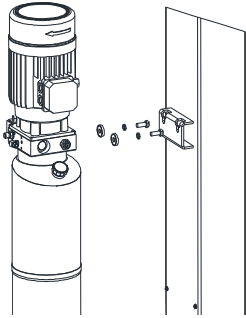
Installing the mechanical safeties

1. Make sure all air hoses are properly connected and air pressure is set at 6-8 bar.
2. Check that the fuses of the four columns engage evenly. If they do not, repeat the adjustment procedure described above.
3. After adjustment, fasten each safety rack to the column with an M16x30 bolt, a D.16 lock washer and a D.16 washer.

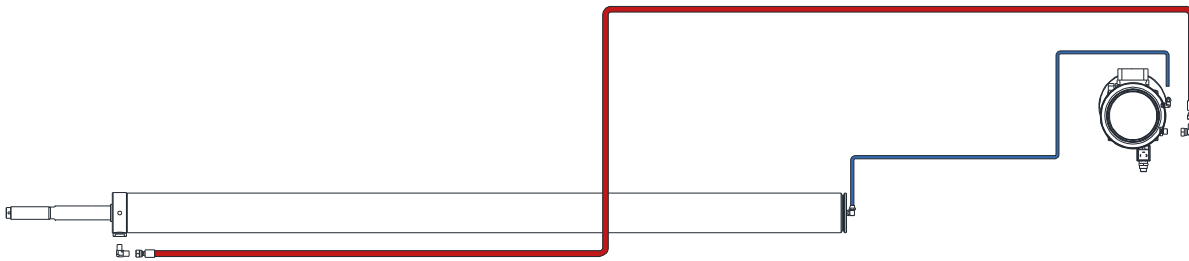


Installation and connection of the hydraulic power unit

1. Attach the hydraulic power pack to the front left column



2. Now make the hydraulic connections to the cylinder and to the distributor block using hydraulic hoses and the leakage oil line.



3. Pay attention to the markings for the connections on the distributor block in the crossmember.
4. Fill the hydraulic oil up to the mark on the dipstick.

Note



The corresponding "[Hydraulic circuit diagram](#)" can be found in the appendix to these operating instructions.

2.10.2.3 Making the pneumatic connection

Warning



When routing the air hoses, make sure that the air hoses are not near moving parts. It may be necessary to secure the hoses with cable ties. Failure to do so may result in safety deficiencies that could cause damage or injury. The air circuit must be equipped with a filter/regulator and the air pressure must be set to 6-8 bar.

The compressed air supply is equipped with a maintenance unit consisting of a water separator, lubricator and pressure reducer.

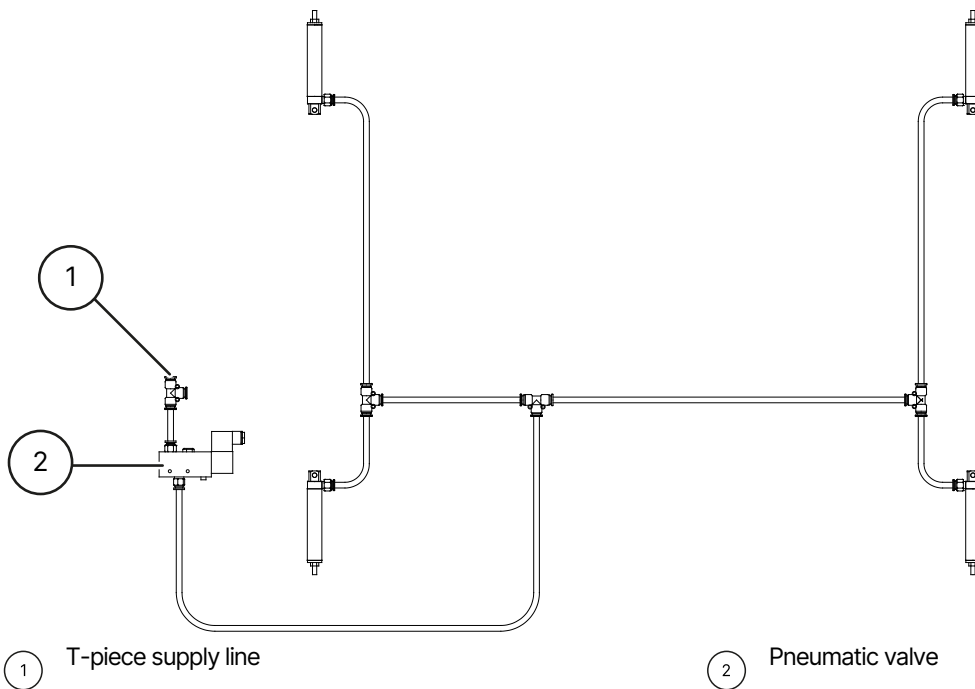
To connect the pneumatic lines, proceed as follows:

1. Mount the air solenoid valve on the power side column with 2x M4x30 screws.
2. Connect the pneumatic lines pre-mounted on the tracks.
3. Connect the pneumatic system of the elevator to the pneumatic supply on site.

Note



The corresponding "[Pneumatic circuit diagram](#)" can be found in the appendix to these operating instructions.



2.10.2.4 Installation and connection of the electric control

- Attach the electric control to the front left column
- Lead all cables through the glands into the control box and connect them there according to "[Electrical circuit diagram](#)".

2.10.2.5 Adjustment work before fixing the lifting platform

- Check all screws, nuts, etc. for tightness
- Check all connections and cylinders for tightness and retighten if necessary

Attention



Do NOT operate the pump-motor unit without oil.

Otherwise, damage to the pump may occur. If the motor becomes hot or makes strange noises, stop immediately and recheck the electrical connection.

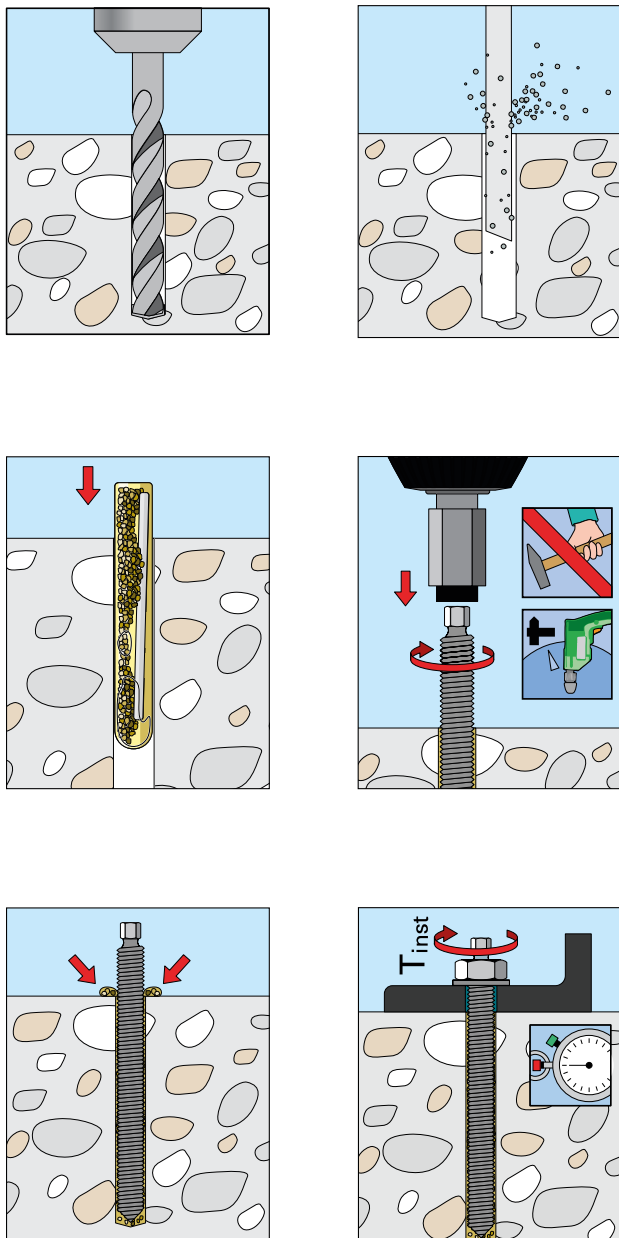
- Observe the direction of rotation of the motor. When the LIFT button is pressed, the motor fan wheel must rotate in the direction indicated. The unit must start to pump oil after approx. 15 seconds. If not, the direction of rotation must be changed.



At the following points, all columns must be closely observed during the entire process

- Press the LIFT button, after a short time the cylinder fills with oil and tightens the lifting ropes
- Lift the platform until the crossbars are approx. 50 mm above the trestles or squared lumber.
- Align the columns to the crossbeam using a spirit level
- Attach a safety anchor to each column for safety reasons
- Remove the trestles or squared lumber.
- Move the lifting platform to the lowest position by pressing the LOWER button.
- Now check the position of the columns again and attach the remaining safety anchors as described in the next step.
- Check the dimensions against the floor plan and make sure that the base plate of each column is flat on the floor and that the column is aligned squarely
- Use the base plate as a guide and drill each hole with a hammer drill

2.10.2.6 Befestigung mittels Sicherheitsanker



2.10.2.7 Proper maintenance of the steel ropes

In the beginning, the steel ropes will stretch a little. After one week and after three months, the steel ropes need to be readjusted. Failure to do so will result in uneven lifting.

- Make sure all ropes are properly routed and on the correct pulleys
- Lift the lift from all safety interlocks until the ropes support the platforms
- Check that all ropes are evenly tensioned and that the platforms are lifted evenly. If not, repeat the adjustment procedure described previously

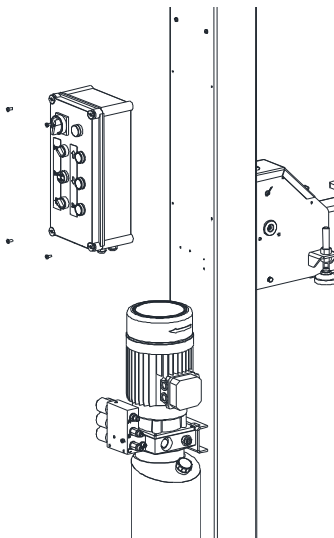
2.10.2.8 Electrical connection of the power unit

Warning

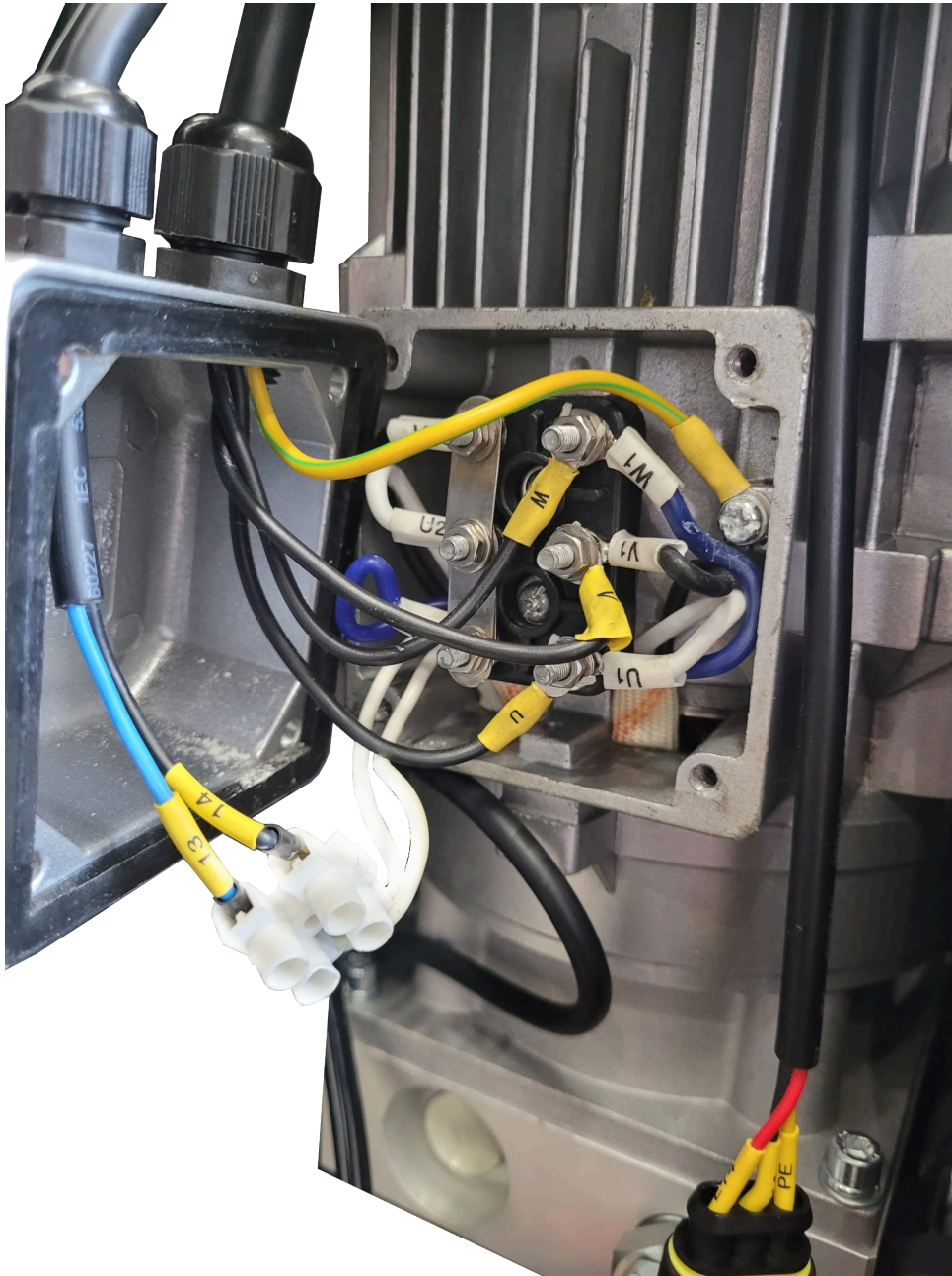


Connection work must be performed by a qualified technician. Make sure that the power supply is correct. Make sure that the phases are connected correctly.

1. Attach the control panel to the main column using the screws provided



2. Connect the hydraulic power unit to the electrical connector



3. Make sure that the phases are connected correctly and the motor is grounded

2.10.2.9 Filling oil and venting

Attention



Do NOT operate the pump-motor unit without oil.

Otherwise, damage to the pump may occur. If the motor becomes hot or makes strange noises, stop immediately and recheck the electrical connection.

- Make sure that the supply voltage of the electrical system corresponds to the voltage indicated on the motor nameplate.
- Make sure that the electrical connections are in accordance with the plans.
- Make sure that there are no leaks or bubbles in the hydraulic and pneumatic lines.
- Make sure that the lift is grounded
- Make sure the work area is clear of people and objects
- Make sure all sliders are in proper position and properly greased
- Make sure all bolts are properly installed and lubricated
- Use only recommended hydraulic fluid
- Fill hydraulic fluid to the top mark on the reservoir cap. Raise and lower the lift, then refill with hydraulic oil. (Approx. 18 liters in total)

Attention



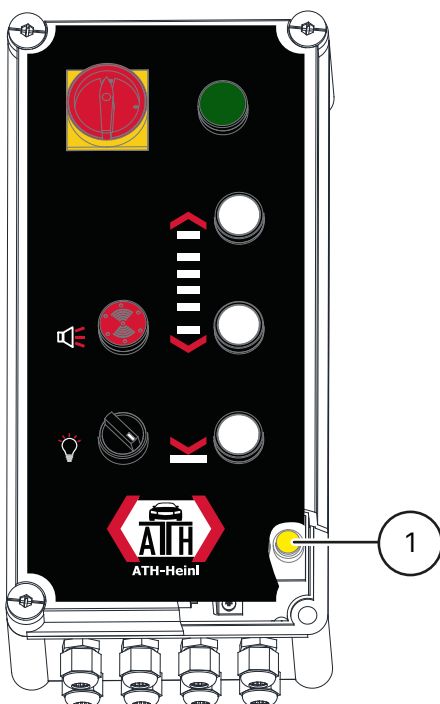
It is strictly forbidden to operate a 60Hz motor on a 50Hz power supply. Never operate the motor at a voltage lower than 208V. This may result in motor damage.

- Make sure that the direction of rotation of the motor corresponds to that indicated on the arrow plate of the motor by pressing the Lift button

2.10.2.10 Oil supply and venting of the platforms

1. Press the LIFT button to bring the oil into the system

If the hoist ropes are not tight, it means that the switch monitoring the hoist ropes is open. Press the override switch ¹, located inside the control box, until the switch is active.





Attention

DO NOT continue to push the button when the platforms have reached their full height, otherwise the motor may be damaged.

2. Press the lowering button to lower the lift completely.
3. Repeat the complete raising and lowering of the stage at least 3 times to vent the trapped air in the cylinder

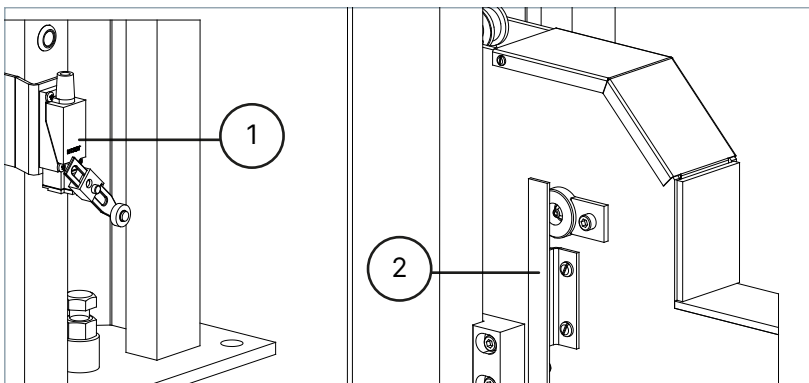


Note

If the oil level plug is lost or broken, order a replacement. The oil tank must be well vented.

2.10.2.11 Installation of the CE stop switch

1. Raise the lifting platform to a height of 380 mm
2. Mount the CE-Stop switch on the main column and check that it can be operated from the bottom of the crossbeam.
3. Perform the entire cycle of lowering and raising to verify proper installation and ensure that the alarm is heard during the final lowering phase. If necessary, adjust the switch by changing the position of the switch lever.



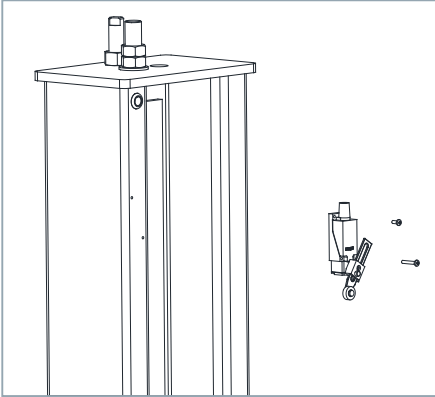
① CE stop switch

② Shift lever

2.10.2.12 Installation of the height limit switch

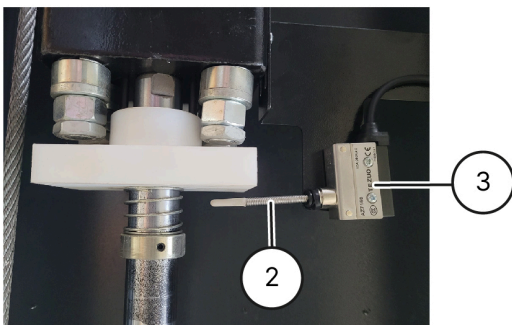
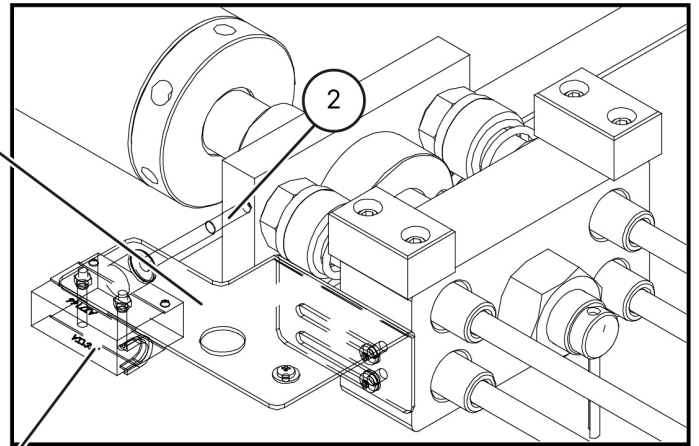
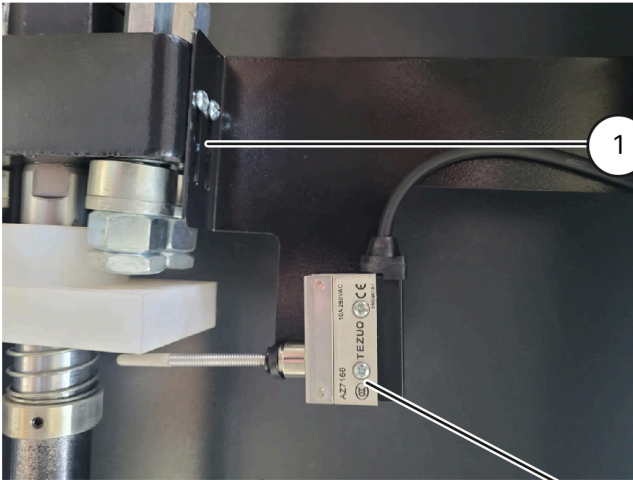
1. Raise the lift to a height of 1900mm
2. Install the limit switch on the main column
3. Raise the lift back to a height of approximately 1900mm to verify proper installation of the limit switch.

- If the switch does not operate properly, adjust the switch by changing the position of the switch lever until the switch operates correctly.



2.10.2.13 Installing the rope breakage protection

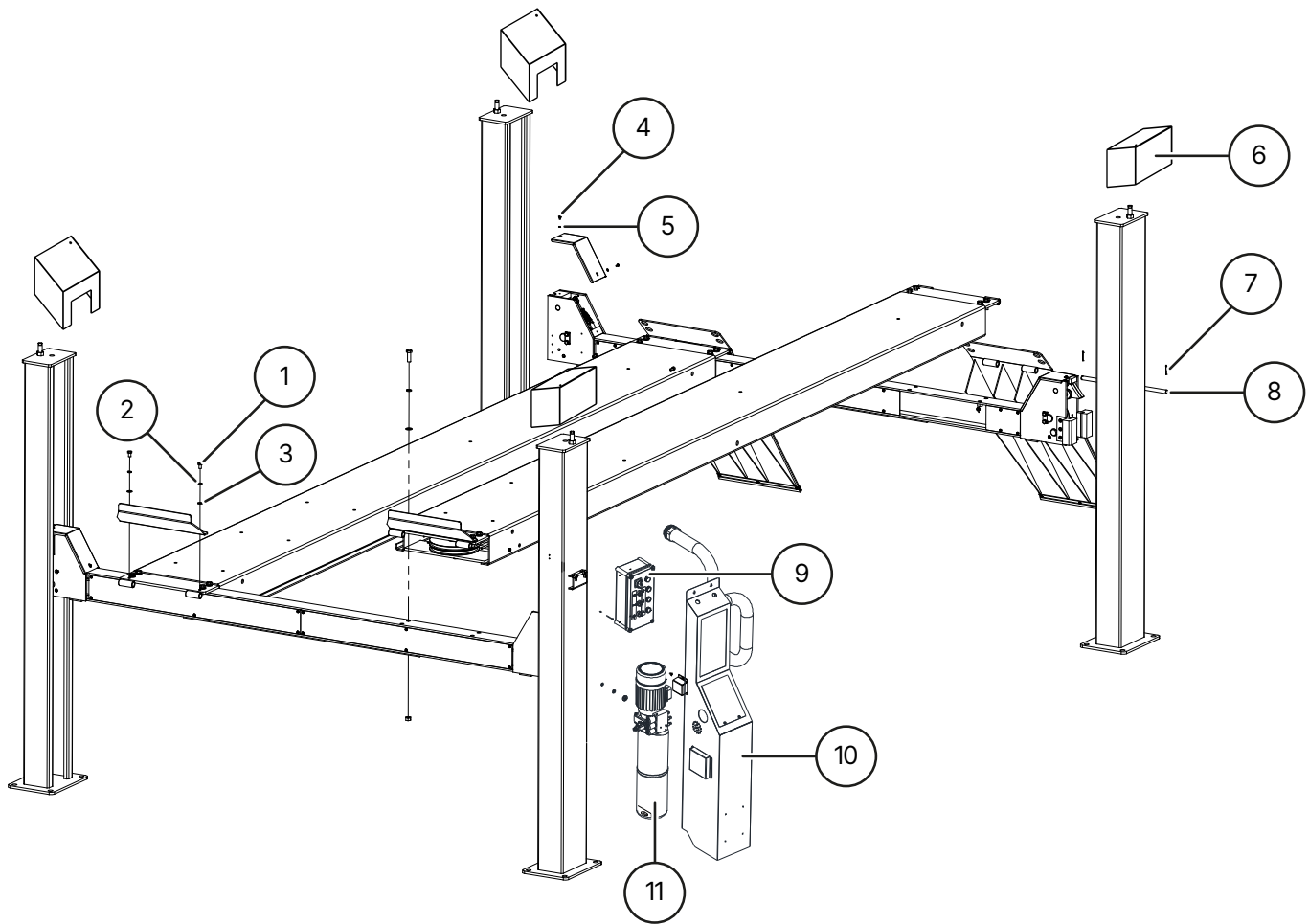
- Mount the bracket attached with the rope breakage protection and the plastic chain to the steel rope block.
- Be sure to check the function and adjust the position of the bracket if necessary.



- Bracket
- Shift lever
- Switch

2.10.3 Installing the accessories

- Install all the covers of the crossbeams
- Install the front wheel stops
- Mount the ramps to the platforms



- | | |
|--------------------|----------------|
| ① Bolt M12x20 | ② Circlip D.12 |
| ③ Washer D.12 | ④ Screw M6x10 |
| ⑤ Washer D.6 | ⑥ Column cover |
| ⑦ Split pin 2,5x40 | ⑧ Bolt |
| ⑨ Control panel | ⑩ Pump cover |
| ⑪ Pump | |

2.11 Before commissioning

Warning



Before commissioning, check all fastening screws, electrical, pneumatic and hydraulic lines and tighten them if necessary.

Caution: Some of these must be checked at regular intervals and tightened if necessary.

2.11.1 Setting the lifting platform

Check the function of all buttons. Make sure that all detents are unlocked when the Lower button is pressed.

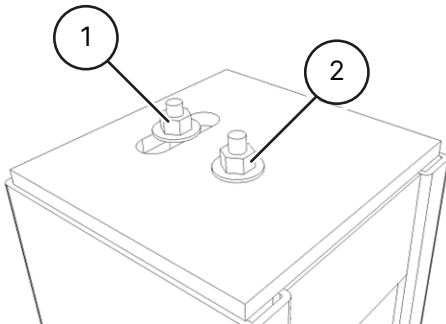
Check the horizontal position of the rails using a spirit level in the following two adjustment options:

▪ Synchronized position:

- ✓ Raise the lifting platform to a height of approx. 600 mm.
- ✓ The horizontal position can be adjusted by screwing the fastening nut for the lifting cables ^② in or out.

▪ Detent adjustment:

- ✓ "Park" the lifting platform in the first detent.
- ✓ The horizontal position can be adjusted by screwing the fastening nut for the detent rod ^① in or out.



Then raise the lifting platform completely and lower it completely. Check the synchronization. If necessary, this must be adjusted again.

Note



Readjustment of the hoist ropes after a short period of operation may be necessary due to the material and is not a warranty claim, but a maintenance task that is the responsibility of the user.

2.11.2 Security checks

General checks

- Make sure that all four columns are at the right angle
- Make sure the lift is anchored to the ground and all anchoring bolts are tightened
- Make sure all bolts, nuts and screws are tight

Checks under load

Perform two to three complete cycles of raising and lowering under load.

- Repeat all checks as described under "General checks".
- Listen for loud noises during the lifting/lowering process
- If the lifting platforms are at different heights, repeat the leveling process

Note













After installation, fill in the attached ["Test book"](#).

This information will be needed in case of a possible service case.



3 OPERATION

3.1 Operating instructions

Company: Activity:	<h2 style="margin: 0;">Operating instructions</h2> <p style="margin: 0;">For working on vehicle lifting platforms</p>	Date: Signature:	
          <b style="color: red;">Notruf 112	<h3>Dangers to people and the environment</h3>		
	<ul style="list-style-type: none"> ▪ Danger due to possible slipping of the vehicle ▪ Danger from hot surfaces on the vehicle ▪ Danger of crushing due to moving parts ▪ Electrical hazards due to the electrical equipment ▪ Danger due to the lack of maintenance of the equipment 		
	<h3>Protective measures and rules of conduct</h3>		
	<h4>Lifting the vehicle</h4> <ul style="list-style-type: none"> ▪ Position the vehicle on the lifting platform ▪ Avoid uneven load distribution, do not overload the platform, use suitable pick-up elements with a non-slip or form-fit surface, only pick up at specified points on the vehicle. ▪ Check the function of the roll-off safety devices or the swivel arm safety devices in all directions. ▪ Only lift if no persons are endangered. 		
	<h4>Work on the lifted vehicle</h4> <ul style="list-style-type: none"> ▪ Depending on the work involved, select and wear personal protective equipment (e.g. hot surfaces). ▪ Watch out for hot parts ▪ Dismantling of components can change the load distribution: if necessary, secure vehicle against tipping over ▪ Use only approved assembly supports 		
	<h4>Lowering the vehicle</h4> <ul style="list-style-type: none"> ▪ Remove tools and other objects from the danger zone ▪ Lower only if no persons are endangered ▪ Foot deflectors, safety edges or warning sound after intermediate stop prevent foot injuries 		
	<p>The lifting platform may only be operated without supervision by instructed and competent employees from the age of 18.</p>		
	<h3>Behavior in case of malfunctions and in case of danger</h3>		
	<ul style="list-style-type: none"> ▪ Report defects on the machine to the installer or manufacturer ▪ Switch off the machine and secure it against unauthorized restarting. ▪ Damage may only be repaired by qualified personnel ▪ In case of fire, attempt to extinguish the fire 		
	<h3>First aid</h3>		
<ul style="list-style-type: none"> ▪ Inform the first aider (see alarm or emergency plan) ▪ Treat injuries immediately ▪ Make an entry in the first-aid book ▪ In case of serious injuries, make an emergency call 			
<h3>Maintenance</h3>			
<ul style="list-style-type: none"> ▪ Repairs may only be carried out by authorized and trained personnel. ▪ Disconnect or secure the machine from the power supply during setup, adjustment, maintenance and servicing work. ▪ Clean the lifting platform at the end of work and check the level of the hydraulic system. ▪ Annual check of the lifting platform by an authorized and instructed person. 			

3.2 Basic notes

- The machine may only be operated independently by persons who have reached the age of 18, who have been instructed in the operation of the machine and who have proven their qualification to the employer.
- They must be expressly authorized by the employer to operate the machine. The order to operate the machine must be given in writing.
- The machine may only be used for its intended purpose.
- Always use specified material for assembly and operation.
- Before assembly or disassembly, check all components; they must not show any signs of damage.
- If necessary, follow the manufacturer's special instructions for the assembly or disassembly of vehicle-specific work.
- An important part of the guarantee / warranty is the fulfillment of the maintenance schedule. In particular the cleanliness, corrosion protection, control if necessary immediate repair of damage.
- During operation, you should always watch out for hazards. As soon as hazards occur, immediately switch off the machine, remove the power plug and disconnect the air supply. Then contact your dealer.
- All warning signs must always be clearly legible. If they are damaged, they must be replaced immediately.

Danger



Pay attention to possible shearing points of the machine.

Caution



During operation the noise can reach 85dB (A), therefore the operator should take appropriate protective measures.

Danger



Moving parts of the machine can catch loose clothing, long hair or jewelry.

3.3 Lift

- Ensure that there is sufficient clearance upwards in accordance with the vehicle height.
- The lifting platform must be fully lowered and no one may be in the service area while the vehicle is being moved onto the lifting platform.
- If the lifting platform is equipped with a wheel-free jack, it must be fully lowered.
- Position the wheels in the center of the respective lane.
- Stop the vehicle when it touches the front stops or when the desired position is reached.
- Apply the parking brake or place the wheel chocks on both sides of the rear wheels.
- Make sure that there are no more people in the vehicle before lifting it.
- Raise the lift by pressing the Lift button until the desired height is reached.



3.4 Parking

- Press the Park button to lower into the nearest mechanical fuse.
- Always make sure the safety is engaged in each column before working on or near the vehicle.

3.5 Lower

- Make sure that the safety area is free of persons and objects.
- Raise the platform slightly by pressing the Raise button so that the mechanical safety catches can unlock.
- Lower the lifting platform to the CE safety stop by pressing the Lower button.
- Observe the lift and the vehicle to ensure that the lift remains level during lowering.
- Lower the lift completely by continuing to press the Lower button. A beep will be heard during the remainder of the lowering process.
- Remove the wheel chocks and make sure the area is clear before driving the vehicle off the lift.

4 MAINTENANCE

To ensure safe operation of the machine, the user is obliged to maintain the machine regularly.

Repair work may only be carried out by authorized service partners or by the customer after consultation with the manufacturer.

Warning



Before maintenance and repair work must:

- Disconnect the machine from ALL power supplies.
- Switch off the main switch or disconnect the power plug and, if necessary, release the compressed air from the system.
- Suitable measures must be taken to prevent the machine from being switched on again

Warning



Work on electrical elements or on the supply line may only be carried out by qualified persons or electricians.

4.1 Consumables for assembly, maintenance and care

Hydraulic oil

Minimum requirement			
Eni PRECIS HVLP-D Part No.: 090536 (20 liters) 90537 (10 liters)			
Summer	(10° to 45°)	HVLP-D 46	(e.g.: Eni PRECIS HVLP-D)
Winter	(below 10°)	HVLP-D 32	(e.g.: Eni PRECIS HVLP-D)

Preservative for ropes, welds, screws, corners, edges and cavities

Minimum requirement		
Würth protective wax spray	400 ml	Item no.: 90534

Lubricant for slideways

Minimum requirement	
LAGERMEISTER WHS 2002 White EP high-performance grease	Item no.: 90530

Lubricant for bushings, chains, rollers & moving parts

Minimum requirement		
White Ultra Luber spray can	500 ml	Item no.: 34403



Floor anchorage

Minimum requirement	
Impact anchor M16 x 173	

Cleaning

Minimum requirement	
Caramba Intensive Brake Cleaner acetone-free	

Care and protection of metals, painted or powder-coated surfaces

Minimum requirement		
Petec Spray translucent	500 ml	Item no.: 73550
Petec suction can translucent	1000 ml	Item no.: 73510
Würth protective wax spray	400 ml	Item no.: 90534

Care and protection of metals, painted or powder-coated surfaces in the tread area and plastic parts

Minimum requirement		
Valet Pro Classic Protectant plastic sealant	500 ml	Item no.: 20020034S

4.2 Safety regulations for oil

- Always observe the legal requirements or regulations for the treatment of used oil.
- Always dispose of used oil by a certified company.
- In case of leakage, oil must be collected immediately using binding agents or trays so that it cannot penetrate into the soil.
- Avoid any skin contact with the oil.
- Do not allow oil vapors to escape into the atmosphere.
- Oil is a flammable medium. Be aware of potential hazards.
- Wear oil-resistant protective clothing such as gloves, safety goggles, protective clothing, etc.

4.3 Maintenance or care plan



Note

The machine must be serviced, cleaned and maintained at regular intervals, regardless of how dirty it is.

The machine must then be treated with a care product (e.g. oil or wax spray). Do not use cleaning agents that are harmful to the skin.

If the mentioned points are not fulfilled, the warranty claim expires!

Interval	Immediately	Weekly	Monthly	1/4 yearly	1/2 yearly
Inspection of ALL safety-related parts	X				
Cleaning	X				
Check or restore surface protection	X				
Check tightness of hydraulic system	X				
Check or restore surface protection or corrosion protection	X				
Check or restore damage to paintwork and components	X				
Check for or repair rust damage	X				
Check or re-treat cavities and unpainted areas.	X				
Check tightness of pneumatic system	X				
Check strength of screws	X				
Check, lubricate & adjust bearing clearance	X				
Check wear parts		X			
Check fluids (level, wear, contamination, quality)		X			
Check & lubricate sliding surfaces		X			
Remove internal dirt			X		
Clean and check electrical components				X	
Check engine and gearbox for function and wear				X	
Check welds and construction				X	
Perform visual inspection (according to inspection plan)					X

4.4 Troubleshooting or error display and remedy

Lifting problems

Symptoms	Cause	Solution
Lift does not lift when button is pressed (motor does not run)	Damage to motor	Check motor and replace if necessary
	Blown fuses due to e.g. voltage fluctuations	Eliminate causes and replace fuses
	Defective button and/or contact	Replace button and/or contact
	Defective main switch and/or contact	Replace main switch and/or contact
	Defective or insufficient supply cable	Replace cable
	Fluctuating or incorrect input voltage	Check voltage
	Defective motor contactor	Replace motor contactor
	Thermal relay has tripped	Check thermal relay and motor
	Limit switch defective or blocked	Check limit switch, replace if necessary
Lifting platform does not lift when button is pressed (motor running)	Hydraulic oil shortage	Refill oil
	Oil filter clogged	Clean oil filter
	Oil loss	Replace damaged components
	Open lowering valve	Check and replace the lowering valve if necessary
	Wrong direction of rotation of the engine	Replace phases
	Defective gear pump	Check the pump and replace if necessary
	Permissible load has been exceeded	Work within the specified payload
	Pressure relief valve set too low	Set pressure relief valve to maximum working load
Lifting platform lifts jerkily	Too little space between slideways	Distance between slideways and guide must be 1.5 - 2.5 mm
	Air in hydraulic system	Bleed the hydraulic system
	Dirty hydraulic oil	Change the hydraulic oil
	Slideways are not lubricated	Lubricate the slideways
Lifting platform continues to lift after releasing the button	Defective button or contactor	Replace the defective button or contactor

Problems during lowering

Symptoms	Cause	Solution
Lift does not lower	Safety catches do not react	Check cable connection Check electromagnets, replace if necessary Relieve detents by raising them
	Defective control relay	Check control relay
	Obstacle under platform	Remove obstacle
	Hose rupture protection triggered	Raise platform briefly and press "DOWN" again
	Lowering valve is not activated	Check electrical connection
	Solenoid coil of lowering valve defective	Replace solenoid coil
	Lowering valve defective	Exchange
	Valve for lowering speed incorrectly adjusted	Adjust
If the faults cannot be rectified, lower the lift using the emergency lowering screw and contact our service team		
Platform lowers too slowly or jerkily	Lowering valve dirty	Clean lowering valve
	Valve for lowering speed incorrectly adjusted	Adjust
Lift lowers by itself	Leaky hydraulic connections	Tighten connections, seal if necessary
	Leaky hydraulic lines	Replace hydraulic line
	Leaky hydraulic cylinder	Replace seals and clean hydraulic system
	Dirty or defective lowering valve	Clean or replace the lowering valve
	Leaky check valve	Clean or replace

Other problems

Symptoms	Cause	Solution
Lift does not raise and lower synchronously	Air in hydraulic circuit	Bleed hydraulic circuit
Product shows (severe) rust damage	Damage or insufficient corrosion protection Maintenance if necessary	Remove rust, clean and restore surface.

Symptoms	Cause	Solution
Unusual loudness of the engine	Oil filter contaminated	Clean oil filter
	Air in hydraulic circuit	Bleed the hydraulic system
	Dirty hydraulic oil	Replace the hydraulic oil
	Input voltage incorrect / phase missing	Check connection / check voltage output motor contactor
Circuit breaker (fuse) has tripped	Check contacts on contactor	Replace the contactor
	Check capacity of circuit breakers	Replace the fuses
	Check for damage to the cable	Replace the cable
ALWAYS MAKE SURE TO USE ORIGINAL PARTS AND ACCESSORIES.		

4.5 Maintenance and service instructions

Note



All maintenance and service work should be carried out at least according to "[Maintenance or care plan](#)".

Compressed air maintenance unit

Setting the working pressure

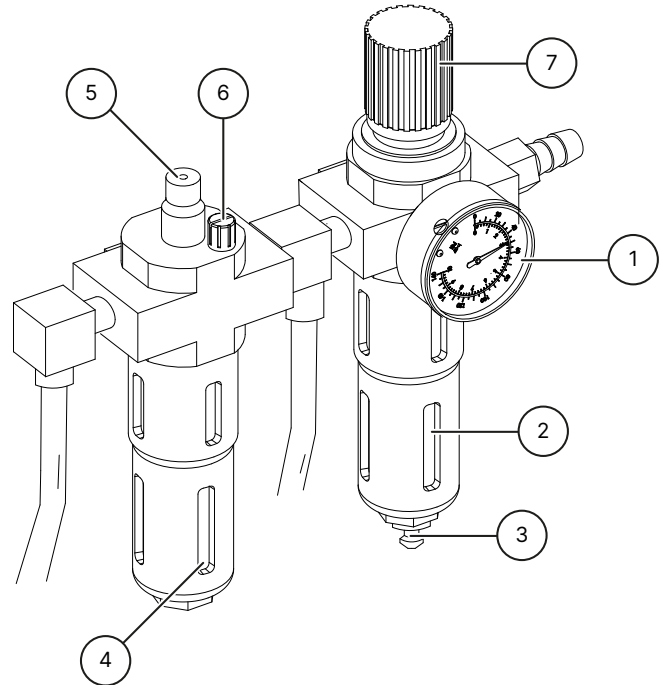
- Check the working pressure displayed in the pressure gauge (1). This must correspond to the technical data.
- The working pressure can be adjusted by means of the pressure regulator (7).
- Pull the pressure regulator up to make adjustments.
- To increase the pressure in the machine, turn the regulator clockwise. To decrease the pressure, turn the regulator counterclockwise.

Oiler

- Check the oil level in the oil reservoir (4).
- Remove the oil reservoir.
- Now refill the reservoir with a pneumatic oil of SAE20 viscosity accordingly.
- Check the injection quantity of the oiler through the sight glass (5).
- As a rule, the screw (6) must be closed completely in a clockwise direction and then opened again by approx. 1/4 to 1/2 turn by turning it counterclockwise.

Water separator

- Check the water level in the separator (2).
- Open the valve (3) to drain the water.



4.6 Disposal

Disconnect the air and power supply.

Remove all non-metallic materials and store them according to local regulations.

Remove the oil from the machine and store it according to local regulations.

Recycle all metallic materials.



Danger

The machine contains some hazardous substances.

These can pollute the environment and cause damage to the human body.

Pay attention to appropriate caution and, if necessary, protective clothing when handling.

5 EC- EU DECLARATION OF CONFORMITY

According to Machinery Directive 2006/42/EC, Annex II 1A, EMC Directive 2014/30/EU, Annex IV.

Serial number

Company name and complete address of the manufacturer

ATH-Heinl GmbH & Co. KG
Gewerbepark 9
DE - 92278 Illschwang

Name and address of the documentation authorized representative.

ATH-Heinl GmbH & Co. KG
Gewerbepark 9
DE - 92278 Illschwang

We hereby declare that the machine designated below, in the version placed on the market by us, complies with the relevant, fundamental safety and health requirements of EC Directive 2006/42/EC and the harmonization legislation listed below.

Description of the machine

Lifting platform for vehicles

Type designation

ATH Four Lift 64P
ATH Four Lift 64AP

The object of the declaration described above complies with the following relevant Union harmonization legislation.

EN ISO 12100:2010 (Safety of machinery)
EN 1493:2010 (Vehicle Lifts)
EN 1494:2000+A1:2008
EN 60204-1:2018 (Safety of Machinery)

The following harmonized standards and regulations have been complied with

Machinery Directive 2006/42/EC

Testing institute

CCQS Certification Services Limited
Block 1 Blanchardstown Corporate Park,
Ballycoolin Road Blanchardstown,
Dublin 15, D15 AKK1, Ireland

Reference number of technical data

F-210701-040-03-5A

Number of the certificate

CE-MC-210701-040-03-5A

ATH-Heinl GmbH & Co. KG

Gewerbepark 9
DE - 92278 Illschwang
October 2012



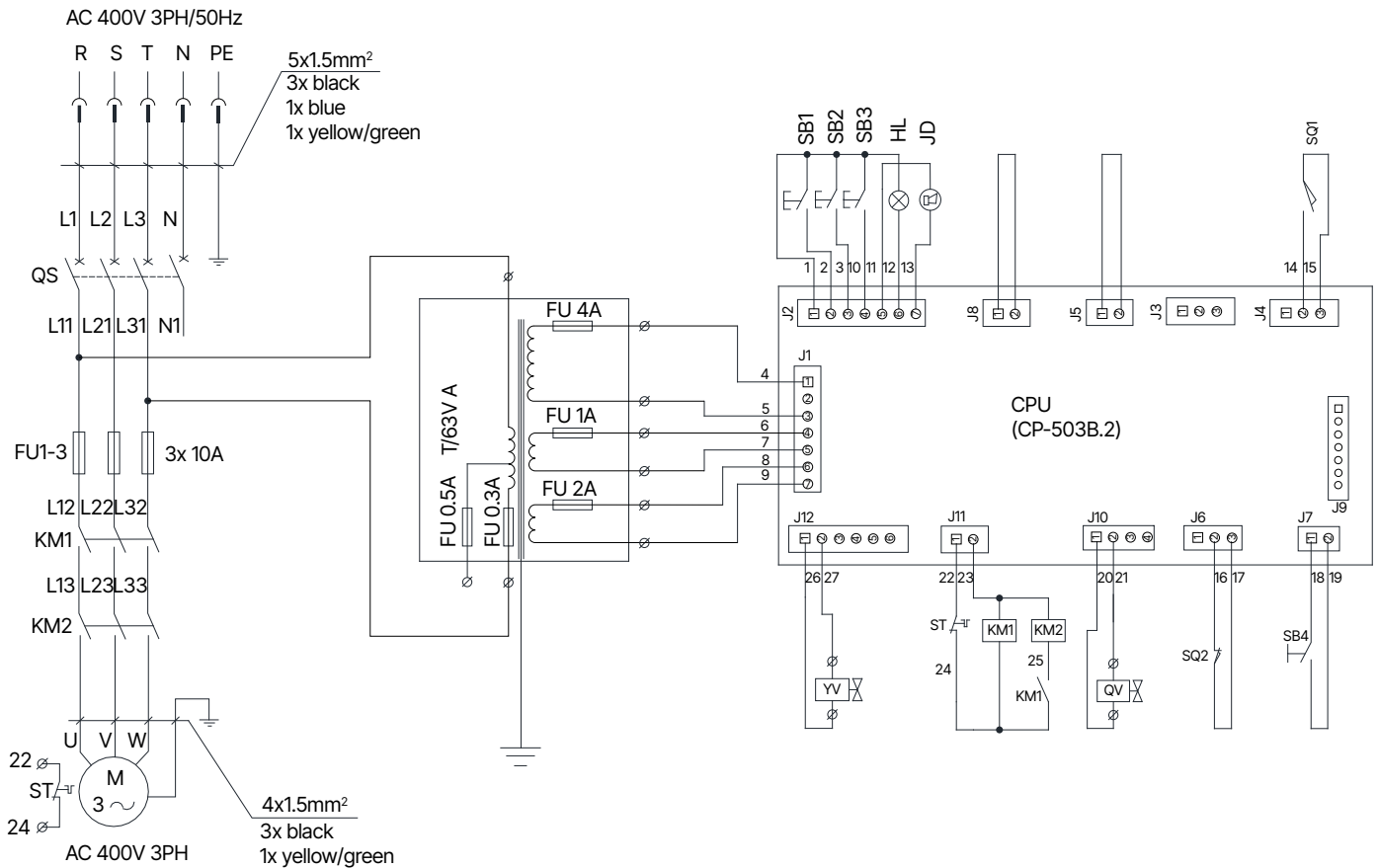
Hans Heinl
(Managing Director)

**CONVERSIONS AND/OR MODIFICATIONS TO THE MACHINE
INVALIDATE THE CE TEST AND EXCLUDE LIABILITY.**

6 APPENDIX

6.1 Pneumatic circuit diagram

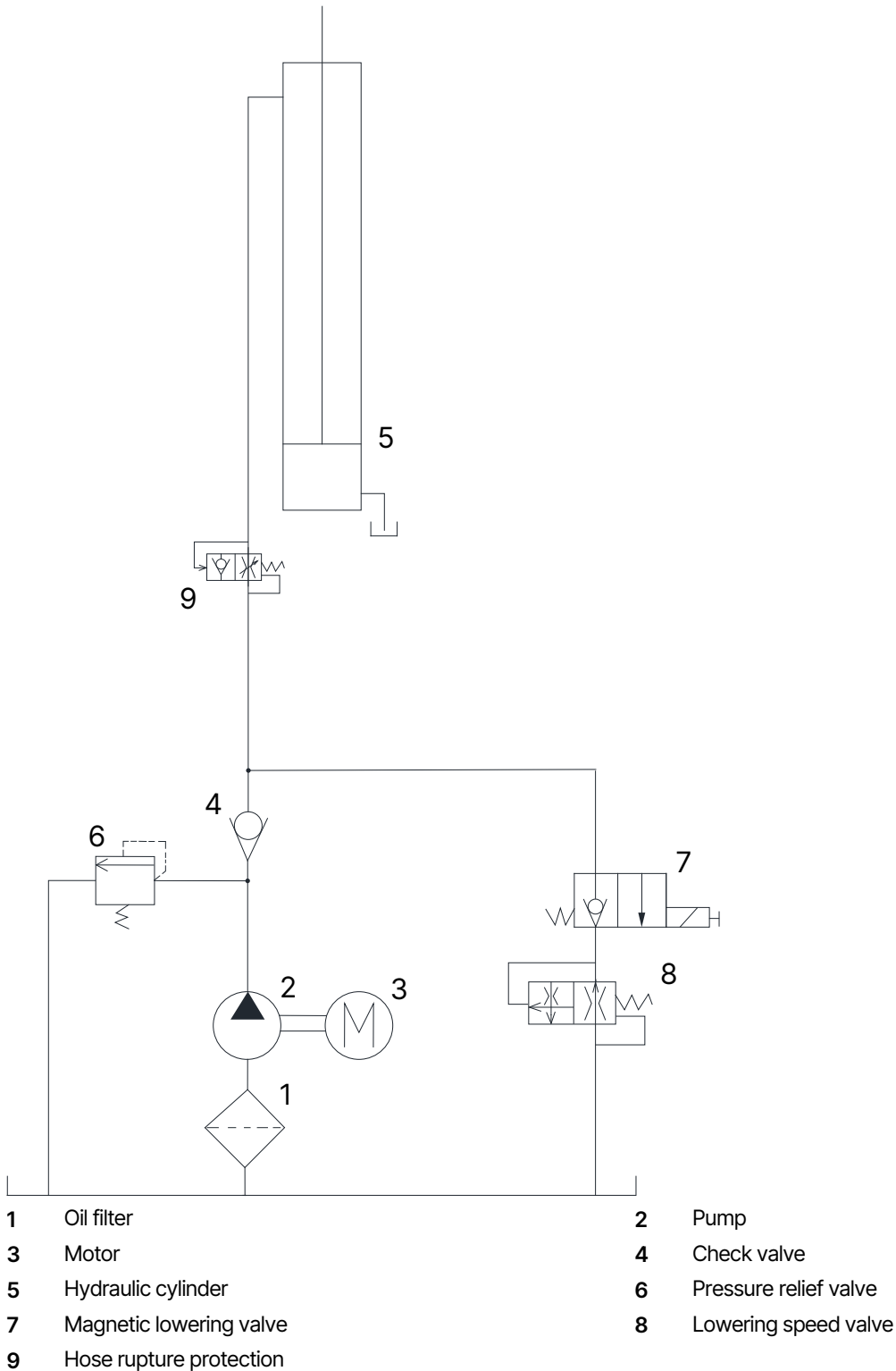
6.2 Electrical circuit diagram



- QS** Main switch
- ST** Thermal relay
- KM** Motor contactor
- SB1** Lowering button
- SB2** Lowering button
- SB4** Leveling button
- SQ1** CE-Stop button
- JD** Beeper
- YV** Lowering valve

- M** Motor
- T** Transformer
- SB1** Lift button
- SB3** Emergency stop switch
- HL** Control lamp
- SQ2** Rope breakage protection
- QV** Pneumatic valve

6.3 Hydraulic circuit diagram





7 WARRANTY CARD

Dealer Address:	Customer Address:
Company (customer number, if applicable):	Company (customer number, if applicable):
Contact person:	Contact person:
Street:	Street:
Zip & City:	Zip & City:
Tel. & Fax:	Tel. & Fax:
Email:	Email:
Manufacturer & Model:	Year of manufacture:
Serial Number:	Reference Number:

Message Description:

Description of spare parts needed:

Spare part:	Part number:	Quantity:
-------------	--------------	-----------

Important Notes:

Damage caused by improper handling, neglected maintenance or mechanical damage is not covered by the warranty. For systems which have not been installed by an authorized ATH-Heinl fitter, the warranty is limited to the provision of the necessary spare parts.

Transport damages:

- Obvious defect (Visible transport damage, note on delivery bill of the carrier, send copy of delivery bill and photos immediately to ATH-Heinl)
- Hidden defect (Transport damage is only detected when unpacking the goods, send damage report with pictures to ATH-Heinl within 24 hours)

Place & Date

Signature & Stamp

7.1 Scope of the product warranty

Five years

- On the device structure

One year (under normal circumstances/use within the scope of the warranty)

- Power supply units
- Hydraulic cylinders
- All other wear components such as turntables, rubber plates, cables, chains, valves, switches, etc.

Warranty exclusion of

- Defects caused by normal wear, misuse, shipping damage, improper installation, tension, or lack of required maintenance.
- Damage resulting from neglect or failure to follow the specified instructions in this manual and/or other accompanying instructions.
- Normal wear and tear on components that require service to keep the product in safe operating condition.
- Any component that has been damaged in transit.
- Other components that have not been explicitly listed, but are handled as general wear parts.
- Water damage caused by, for example, rain, excessive moisture, corrosive environments or other contaminants.
- Cosmetic defects that do not affect the function.

WARRANTY DOES NOT APPLY IF THE WARRANTY CARD HAS NOT BEEN SENT TO ATH-HEINL.

It is pointed out that damage and malfunctions caused by non-compliance with maintenance and adjustment work (according to operating instructions and/or instruction), faulty electrical connections (rotating field, nominal voltage, fuse protection) or improper use (overload, installation outdoors, technical modifications) exclude the warranty claim!



8 TEST BOOK



Note

This test book (including protocol) is an important part of the operating instructions or the product.

!!!PLEASE KEEP IT CAREFULLY!!!

Inspection

The product must be inspected by a suitable and approved company or institution after completion of installation, handover, instruction if necessary, and subsequently at regular intervals in accordance with the regulations and legal provisions applicable in the country of operation.

In the event of modifications or extensions to the product type, an additional test logbook must be kept and accepted.

Scope of inspection

In addition to the proper functioning, cleanliness and maintenance specifications, the safety-relevant components of the entire system must be checked in particular.



Technical data

please refer to the enclosed operating instructions

Type plate

Please note down all data below

Manufacturer & type of mounting materials used

 ATH-Heinl			
Typ Type		Serien # Serial #	
Spannung Voltage		Baujahr Year of built	
Leistung Power		Tragkraft Capacity	
 CE		Made by ATH-Heinl GmbH & Co.KG Gewerbepark 9 92278 Iilschwang GERMANY Assembly in China	

8.1 Installation and handover protocol

Installation site:	Device/installation:
Company:	Manufacturer:
Street:	Type/Model:
City:	Serial Number:
Country:	Year of manufacture:

The product listed above has been assembled, checked for function and safety, and put into operation. The installation was carried out by:

- The operator
 The expert

The operator confirms the proper installation of the product type, to have read and understood all information of this operating manual and protocol and to observe them accordingly, as well as to keep these documents accessible to the instructed operators at any time.

The operator confirms that after installation and commissioning by a trained person of the manufacturer or an authorized dealer (expert), he has been instructed in the function, handling, safety-relevant specifications, maintenance and care of the machine, has received the documents, information and specifications of the machine and that the product functions properly.

IMPORTANT NOTE:

SHOULD THE ABOVE POINTS NOT BE FULFILLED, THE WARRANTY CLAIM WILL EXPIRE!

The warranty is only valid in case of compliance with and proof of proper installation, handover, if necessary instruction of the machine as well as the annual maintenance by an expert authorized by the manufacturer. The interval between 2 maintenance intervals must not exceed 12 months. In the case of non-standard use or multi-shift or seasonal use, a ½ yearly inspection and maintenance must be agreed.

Warranty claims will only be accepted if all points in the protocol and in the operating instructions have been fulfilled, the claim is made immediately after discovery and this **protocol** is sent **to the manufacturer in connection with the maintenance and, if applicable, service protocol**.

Furthermore, the specific information on the warranty (scope, claims and specifications) as described in the operating instructions must be observed.

Damage and claims resulting from improper handling, failure to provide maintenance and care, use of unsuitable or not specified assembly, operating, maintenance and care materials, mechanical damage, tampering with the equipment without consultation or by unauthorized experts are excluded from the warranty. For systems that have not been installed by an authorized expert, the warranty is limited by agreement of the manufacturer to a maximum of the provision of the necessary spare parts.

Name and company stamp of the expert
if necessary number and name VKH

Date and signature of the expert

Name and company stamp of the operator

Date and signature of the operator



8.2 Test plan

Testing	1	2	3	4	5	6
Date						
Nameplate						
Brief operating instructions						
Operating instructions						
Safety label						
Marking for operation						
Further marking						
Construction (deformation, cracks)						
Fixing dowels and stability						
Condition of concrete floor (cracks)						
Condition / general condition						
Condition / cleanliness						
Condition / maintenance and sealing						
Condition / Fluids						
Condition / Lubrication						
Condition / Aggregate						
Condition / Drive						
Condition / Engine						
Condition / Gearbox						
Condition / Cylinder						
Condition / Valve						
Condition / Electrical control						
Condition / Electrical switches						
Condition / Electrical switches						
Condition / Electrical lines						
Condition / Hydraulic lines						
Condition / Hydraulic fittings						
Condition / Pneumatic lines						
Condition / Pneumatic screw connection						
Condition / Leak tightness						
Condition / Bolts and bearings						
Condition / Wear parts						
Condition / Covers						
Condition / Functions under load						

Testing	1	2	3	4	5	6
Date						
Condition / Safety relevant components						
Condition / Electrical safety device						
Condition / Hydraulic safety device						
Condition / Pneumatic safety device						
Condition / Mechanical safety device						
Condition / Functions under load						
Inspection sticker issued						



8.3 Inspection report

Visual inspection (authorized expert)

Inspection findings

On a regular/extraordinary inspection/re-inspection*.

The device was subjected to a test for operational readiness. No/the following* defects were found:

Scope of inspection: Functional and visual inspection according to specifications

Partial inspection still outstanding:

There are no *) objections to commissioning, no *) retesting is required.

(place, date)

Confirmation of acceptance:

(Signature of expert)

(Name of expert)

(Job title)

(Address)

(Employed by)

Operator (Company stamp, date, signature)

Defects noted **)

Deficiencies corrected **)

*) Please delete where not applicable

***) Confirmation of the operator or an authorized representative with date and signature

Visual inspection (authorized expert)

Inspection report

On a regular/extraordinary inspection/re-inspection*.

The device was subjected to an inspection for operational readiness. No/the following* defects were found:

Scope of inspection: Functional and visual inspection according to specifications

Partial inspection still outstanding:

There are no *) objections to commissioning, subsequent testing is not *) required.

(place, date)

Confirmation of acceptance:

(Signature of expert)

(Name of expert)

(Job title)

(Address)

(Employed by)

Operator (Company stamp, date, signature)

Defects noted **)

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(Signature of expert)

(Name of expert)

(Job title)

(Address)

(Employed by)

Operator (Company stamp, date, signature)

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Deficiencies corrected **)

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(Job title)

(Address)

(Employed by)

Operator (Company stamp, date, signature)

Defects noted **)

Deficiencies corrected **)

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