Operating Instructions

ATH-Cross Lift

Cross Lift 50

Serial number: 8285970200115

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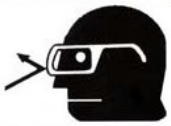
Contents

1.0 INTRODUCTION

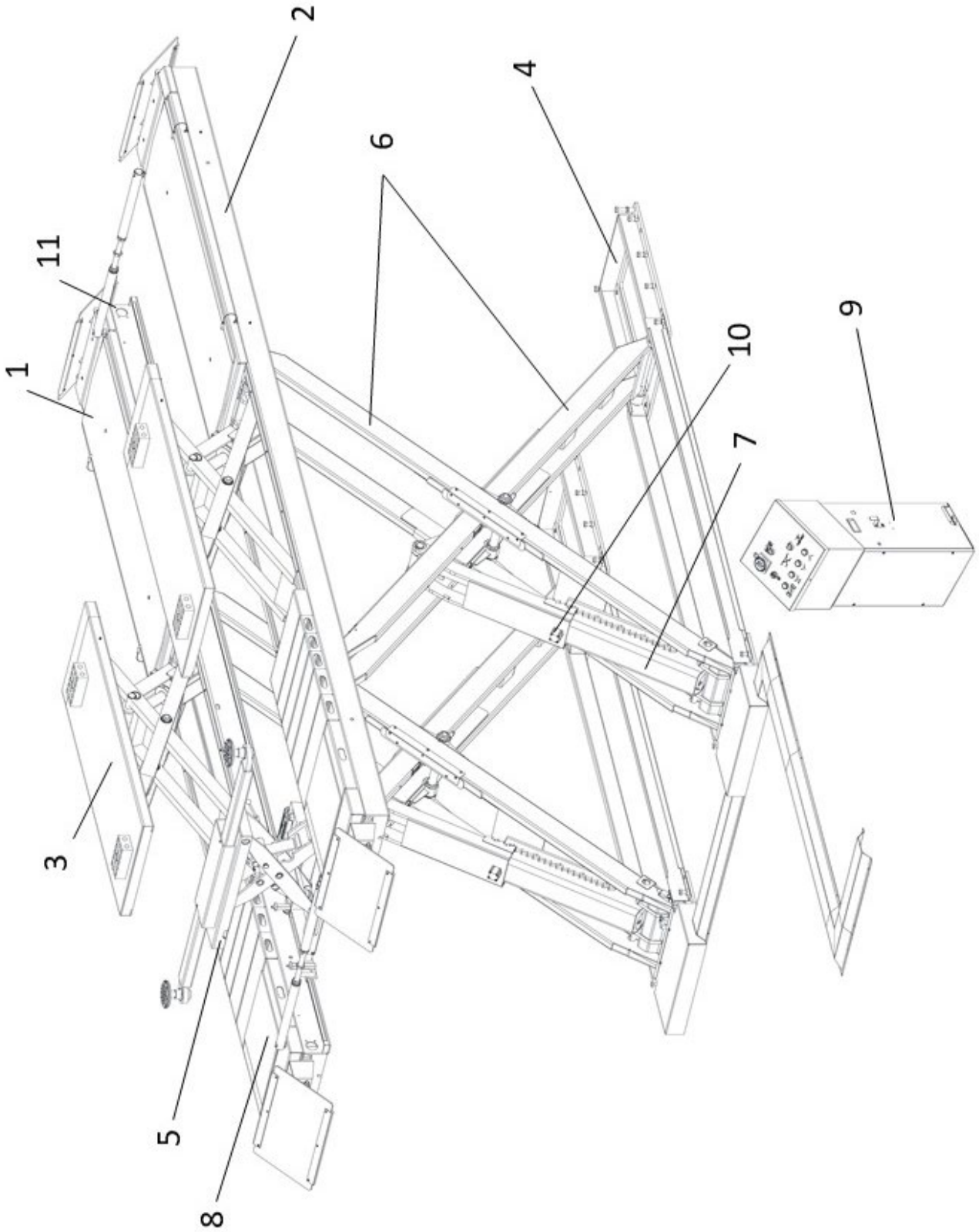
1.1 General Information

	**THESE INSTRUCTIONS ARE AN INTEGRAL PART OF THE MACHINE. THEY MUST BE READ AND UNDERSTOOD BY THE USER. NO LIABILITY IS ASSUMED FOR ANY DAMAGES CAUSED BY FAILURE TO FOLLOW THESE INSTRUCTIONS OR THE VALID SECURITY PROVISIONS.**

	WARNING: Follow the instructions to prevent injury or damage.
	TIP: Provides more information on functionality and tips for using the device efficiently.

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

1.2 Description



1. Access ramp secondary side main lift

2. Access ramp control side main lift
   These are moved upwards using the internal scissor lift system (6) and hydraulic cylinder (7)

3. Wheel-free lift
   This facilitates additional vehicle lifting on the rocker rail.

4. Base frame
   This secures the lifting system.

5. Jacking beam (optional)
   This facilitates additional vehicle lifting on the axle or chassis.

6. Scissor lift system

7. Hydraulic lift cylinder

8. Cover plates
   Allow optional wheel alignment rotary plates to be used

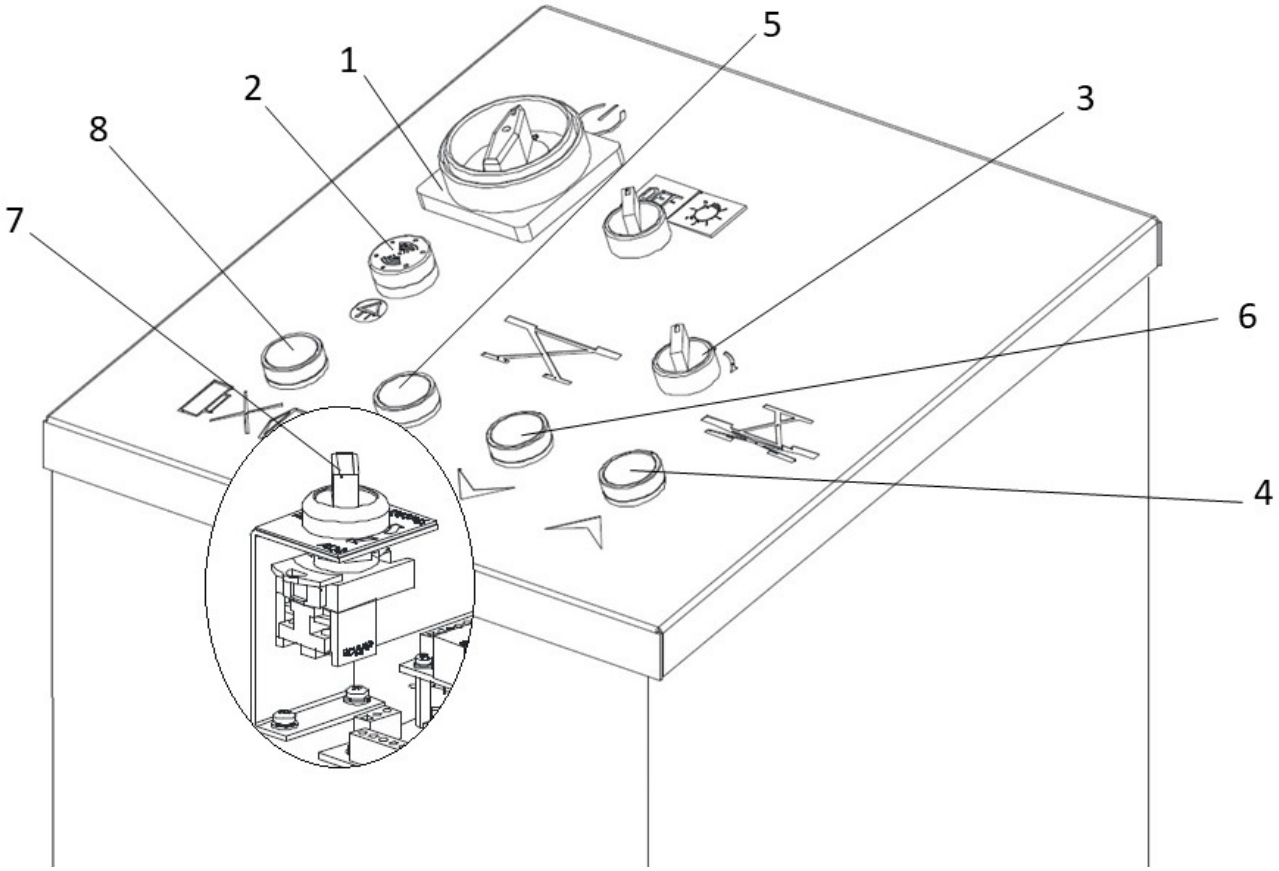
9. Control box
   Contains the complete electrical control system. All buttons are protected by a front ring in order to prevent the button from being pressed accidentally. Furthermore, all movements are immediately stopped when the buttons
   are released (dead man's control).

   Including hydraulic unit
   The hydraulic oil in the tank is fed to the cylinders via a gear pump driven by the engine. A lowering valve returns the oil to the tank.

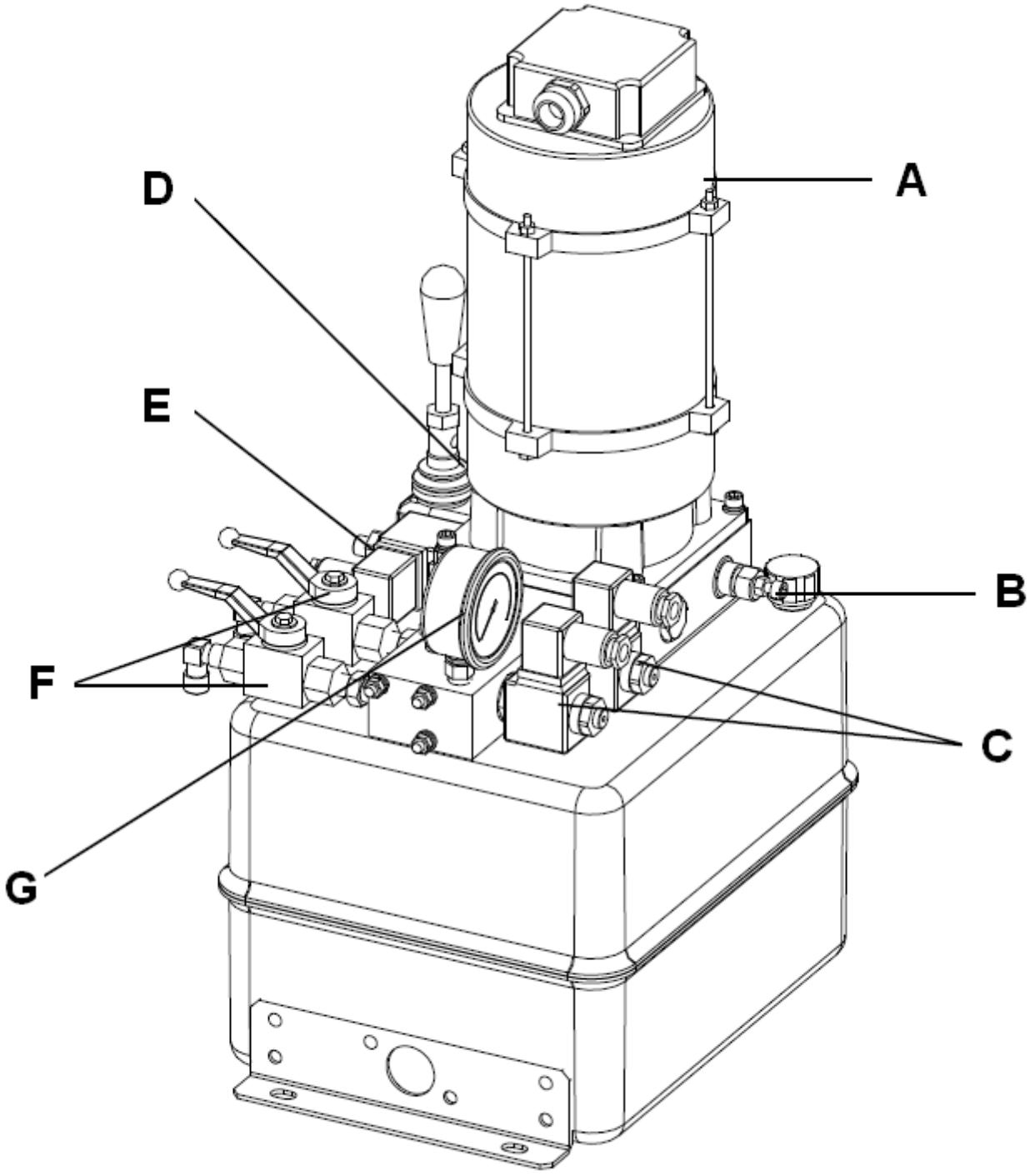
10. Safety catches on the main and wheel-free lift
    This system prevents the raised platform from lowering by more than 100 mm in the event of any defects.
    Electromagnets unlock the system each time it is lowered.

11. Light barrier
    Ensures secure synchronisation of the two scissors

1.3 Operation



1. Lockable main switch with emergency stop function
   to switch the lift on and off
   and to prevent operation of the lift by unauthorised persons.
2. Alarm gives an acoustic and visual signal when the CE stop is reached
3. Selector switch
   Choose between two drive versions
4. Lifting button
   raises the lift
5. Parking button
   parks the lift on safety catches. Depending on the setting of the selector switch, either the main or wheel-free lift is activated.
6. Lowering button
   After pressing the button for approx. 1-2 seconds, the safety catches are unlocked and then lowered. An acoustic signal is also generated when the CE stop is reached.
7. Adjustment switch and work switch
   Position: WORK indicates that the lift is in normal operation
   Position: ADJ indicates that the lift is in adjustment mode
8. Switch for light barrier
   Muting the light barrier for adjustment and/or installation measures

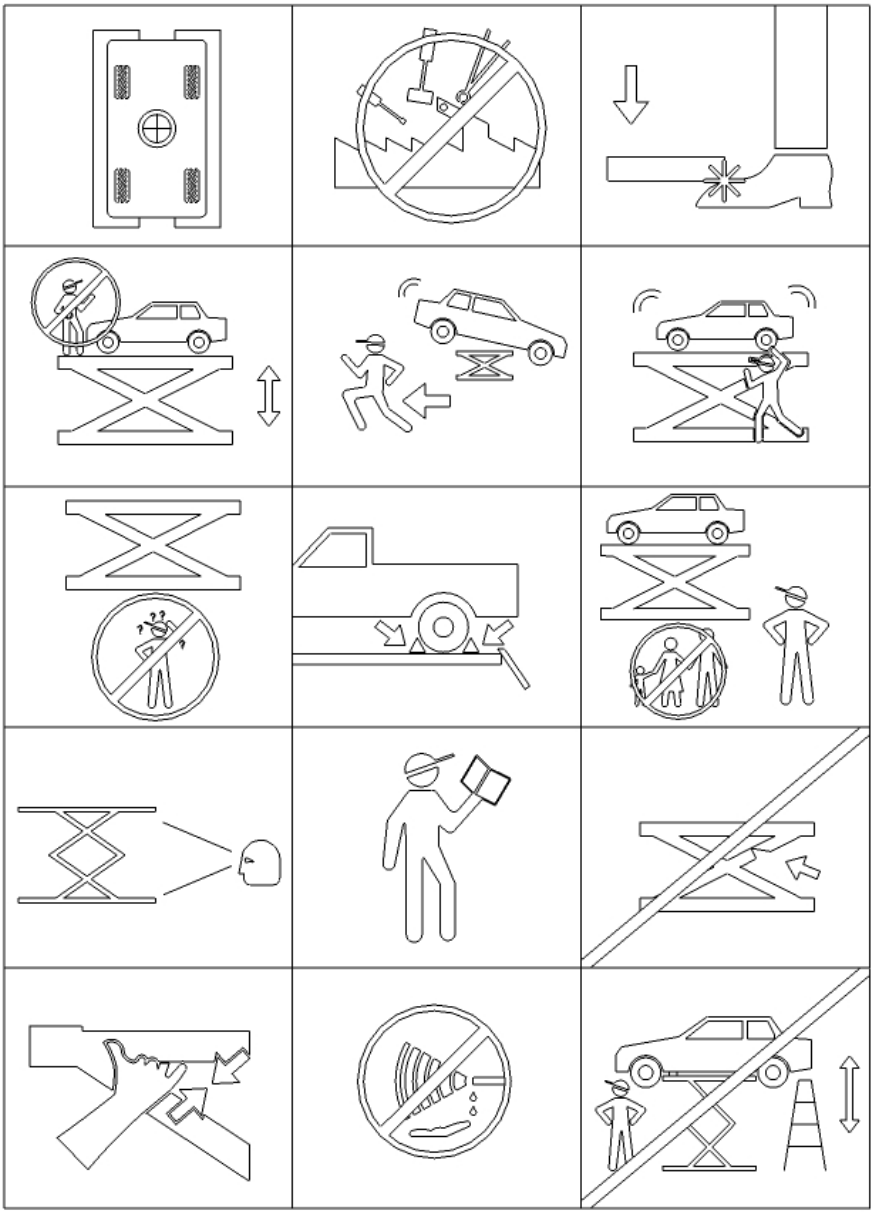


A = Motor
B = Pressure control valve
C = Solenoid valves
D = Emergency manual pump
E = Lowering solenoid valve
F = Levelling valves
G = Manometer

OPERATION

Safety instructions

1. Ensure there is correct weight distribution of the vehicle
2. Changes to the lift of any kind are not permitted
3. Leave the danger zone when lowering the lift
4. No objects or persons may be transported on the lift, the support arms or on the vehicle that is being lifted.
5. If there is a danger of the vehicle falling, you must immediately leave the danger zone
6. Prevent the lifted vehicle from swaying significantly
7. The lift may only be operated by trained personnel.
8. Use suitable roll protection
9. Only authorised persons are allowed to enter the danger zone.
10. Proper maintenance and inspections are necessary for safe work
11. Read and understand the operating instructions before operating the lift
12. Do not work on damaged lifts
13. Keep the shearing points free when moving the lift
14. Do not clean the lift under running water.
15. The danger zone must be kept clear when lifting and lowering



1.4 Technical Data

Model	ATH Cross Lift 50HA
Load capacity of main lift	5,000 kg
Load capacity of wheel-free lift	4,000 kg
Lift time (for 2,000 kg)	70 s
Lowering time (for 2,000 kg)	60 s
Electric system	3/400V/50Hz
Control voltage	DC24V
Motor	3.5 kW
rpm	1375
Motor housing	B14
Upstream fuse	3 C 16 A
Connection cable	Min. 5 x 2.5 m²
Protection type	IP 54
Flow rate	4.8 cm³/g
Working pressure ²	300 bar (max. 300 bar)
Required compressed air connection	7 bar
Recommended hydraulic oil	Summer (15 °C to 45 °C): HVLP-D 46 (e.g.: Eni PRECIS HVLP-D) Winter (under 10 °C): HVLP-D 32 (e.g.: Eni PRECIS HVLP-D)
Oil quantity	Approx. 18 l
Floor anchor	Bolt anchor: M16 x 180 (e.g.: Atrion ABL-W 16-060-180) Compound anchor: M16 x 190 (e.g.: Atrion AVA-W 16-045-190)
Number of anchors	16 units
Permissible sound level	≤ 80 dB
Weight	2,840 kg

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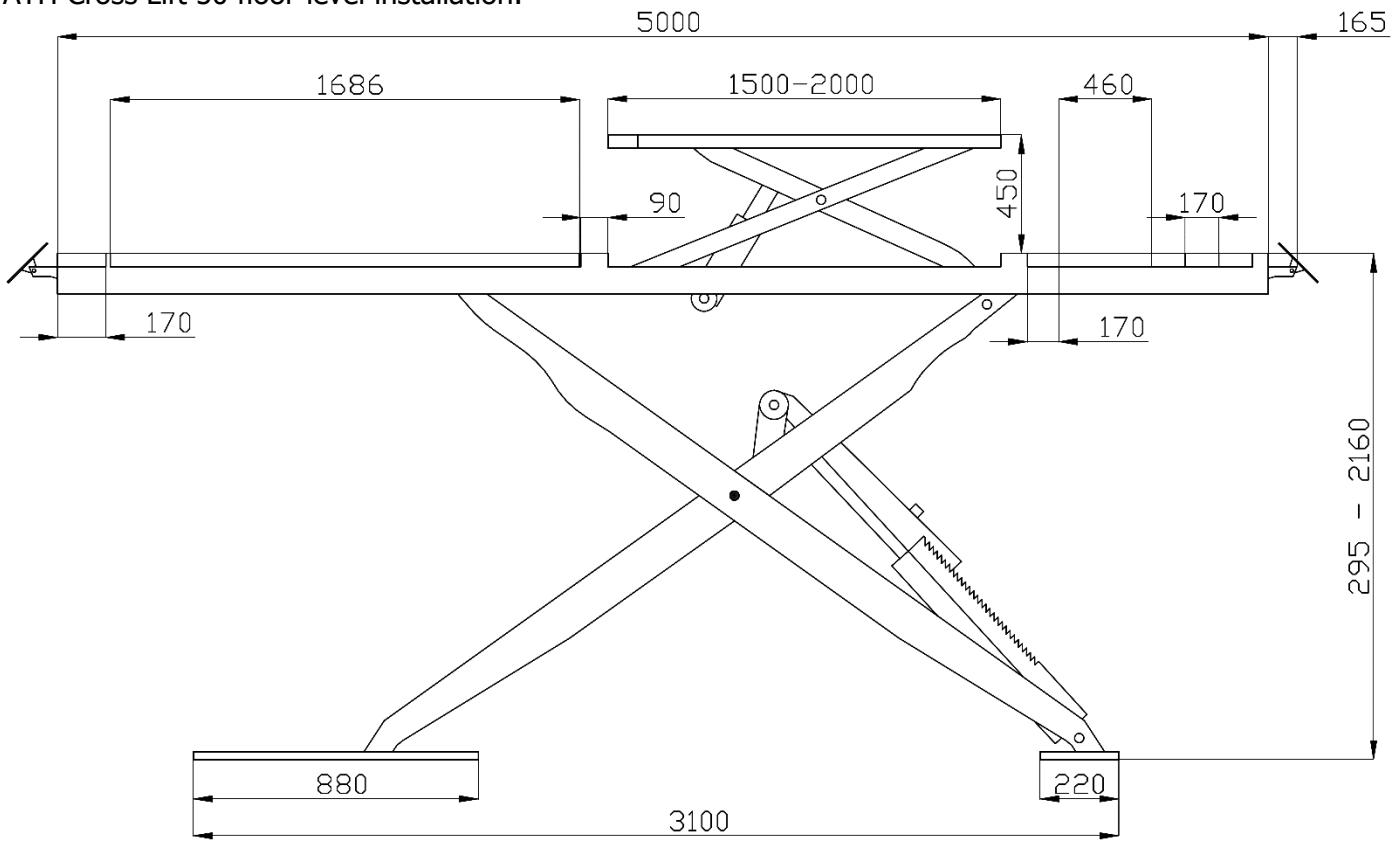
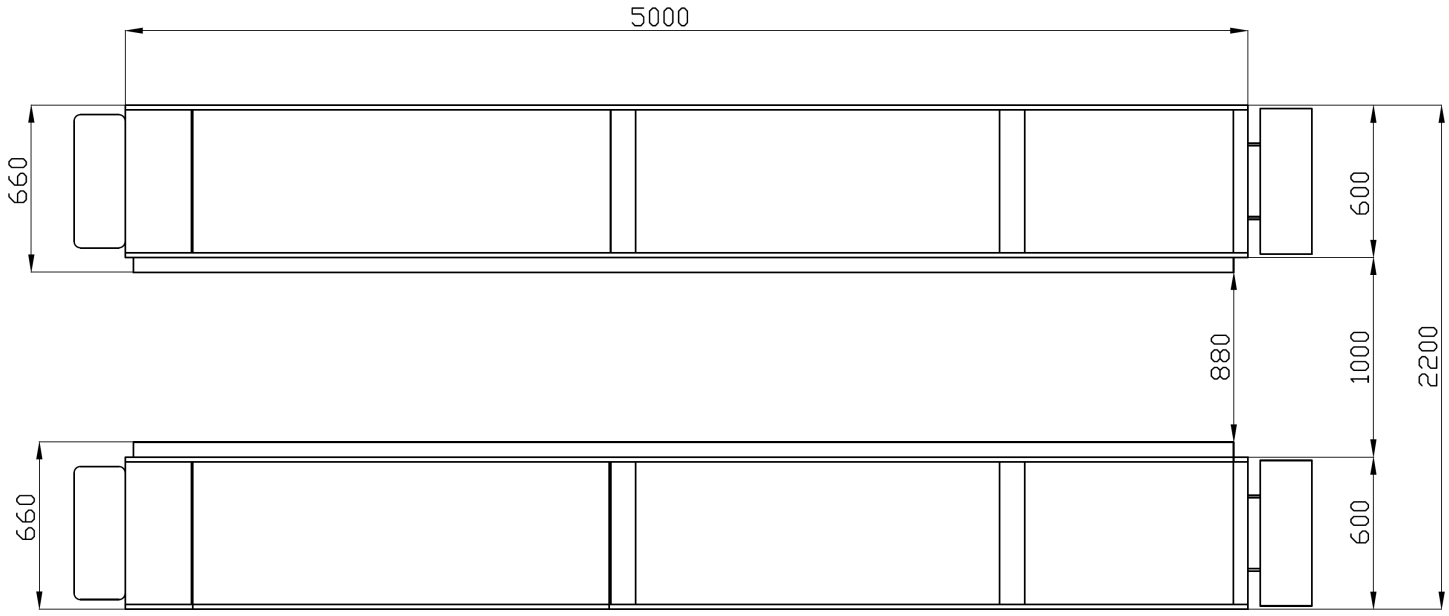
If the stated rated load cannot be lifted, please contact our service team.

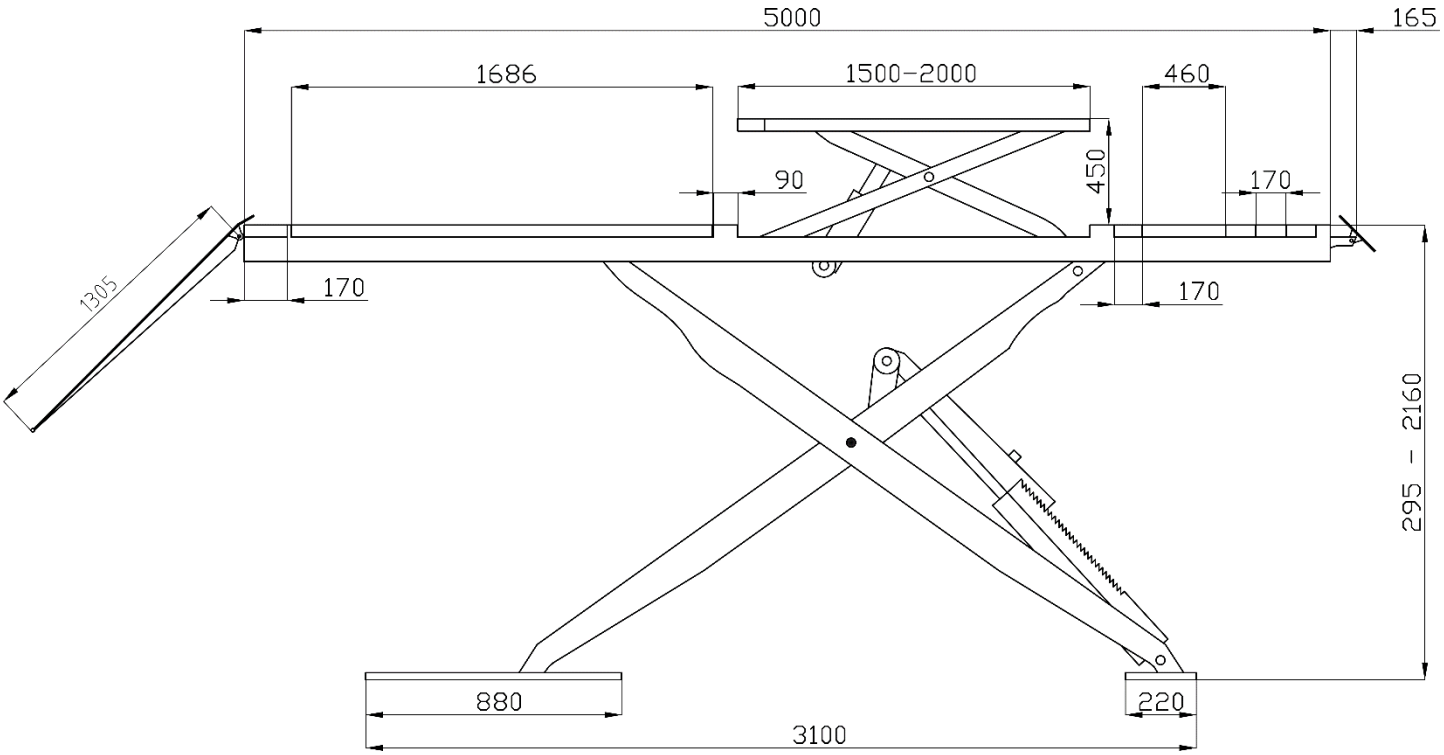
1.5 Scale Drawing

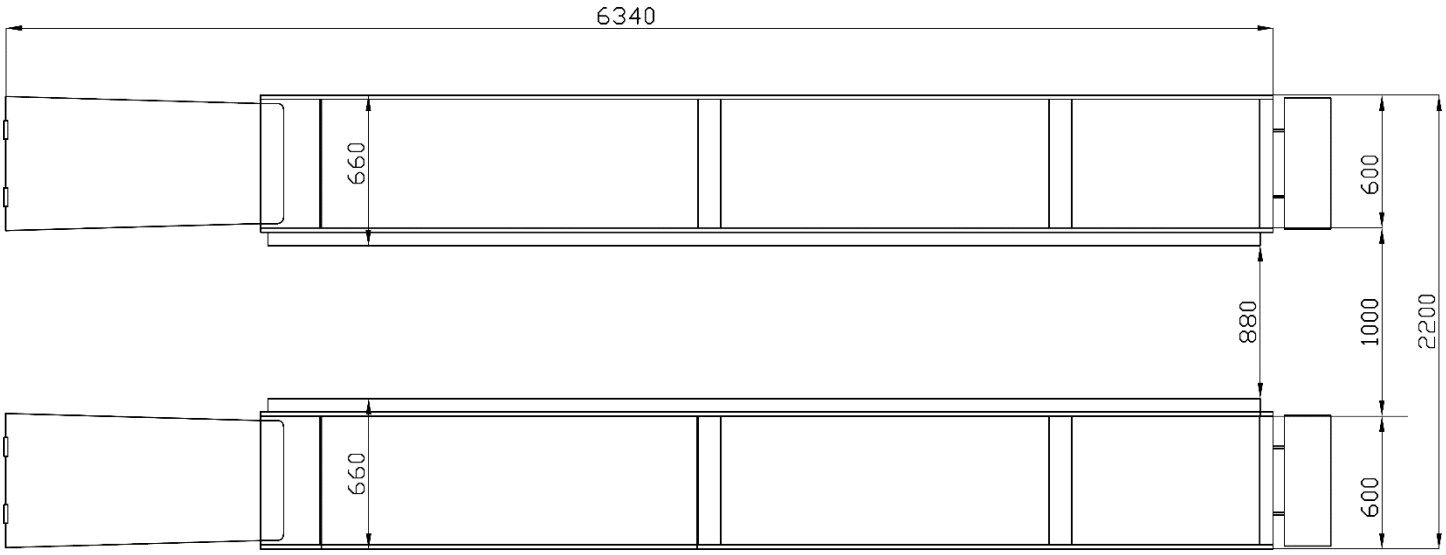
ATH Cross Lift 50 floor-level installation:



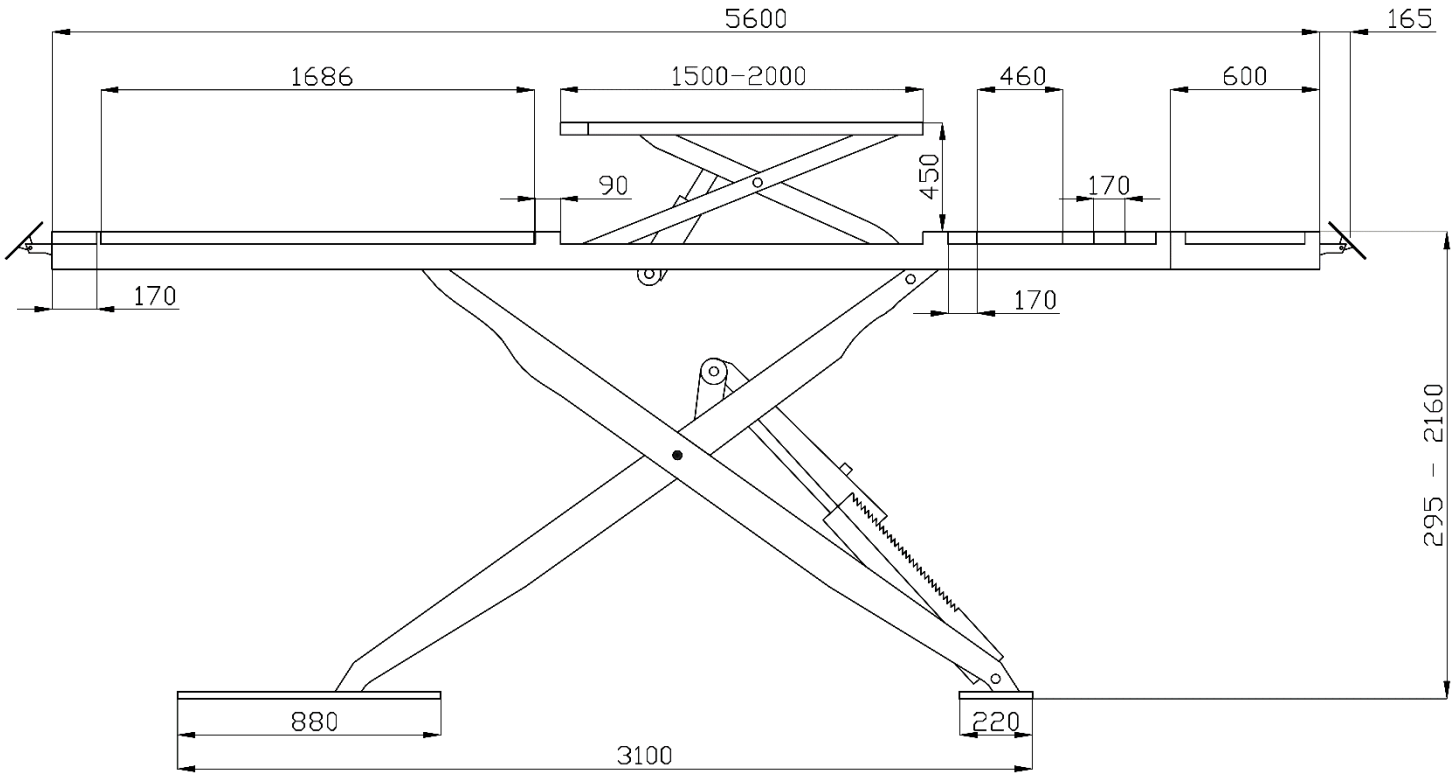


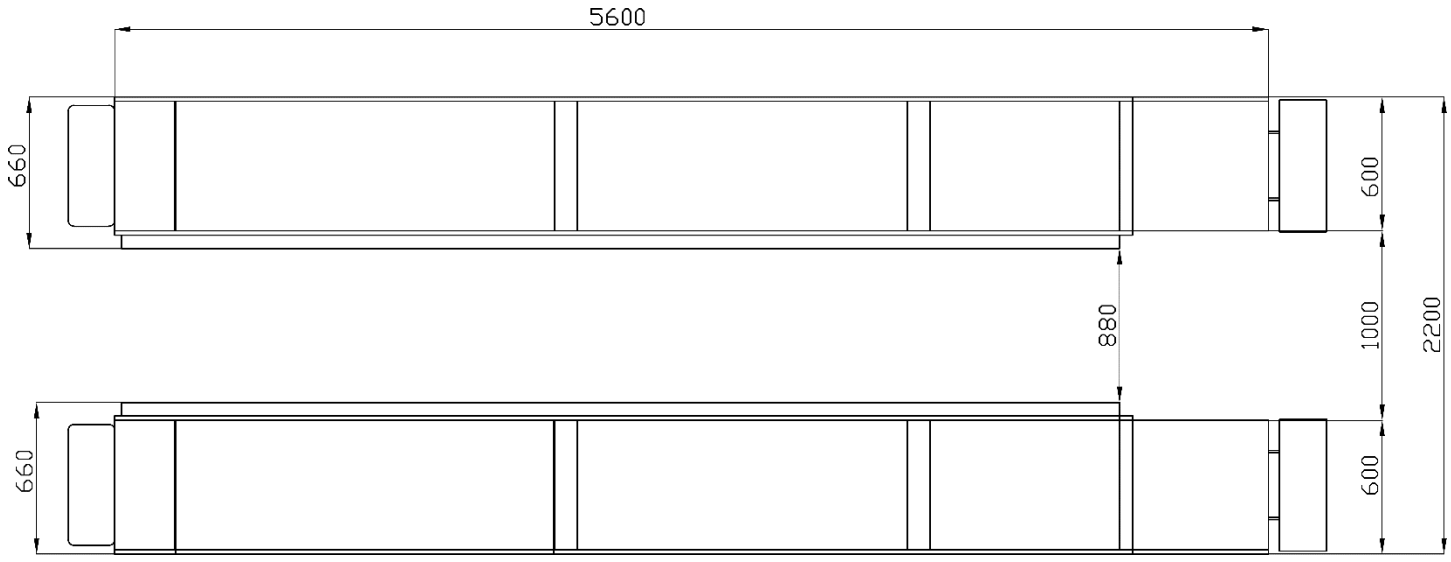
ATH Cross Lift 50 elevated installation:



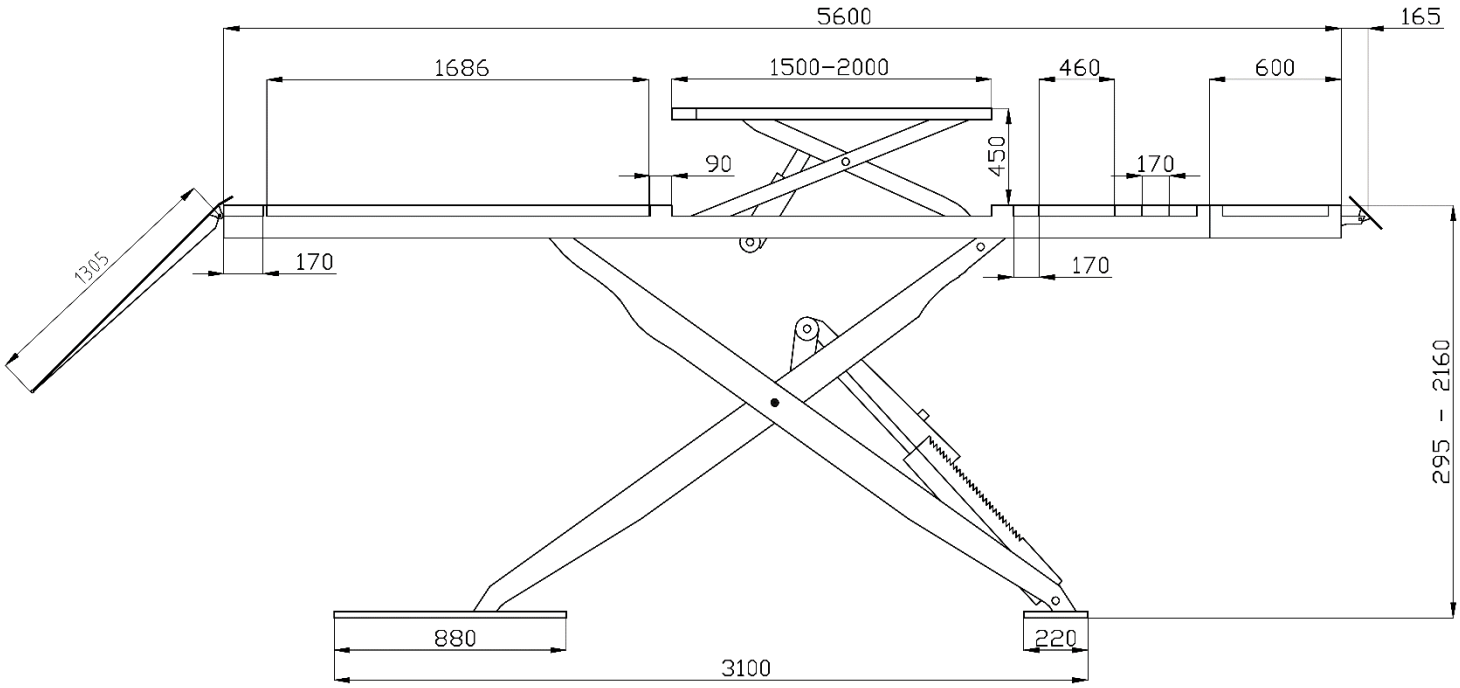


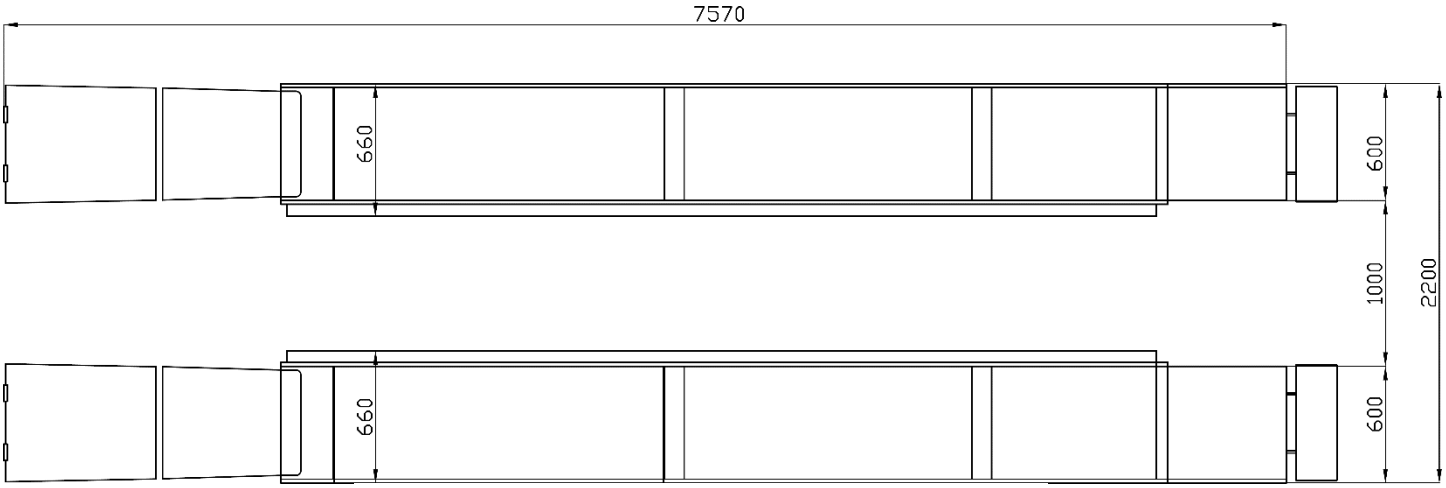
ATH Cross Lift 50 Plus floor-level installation:

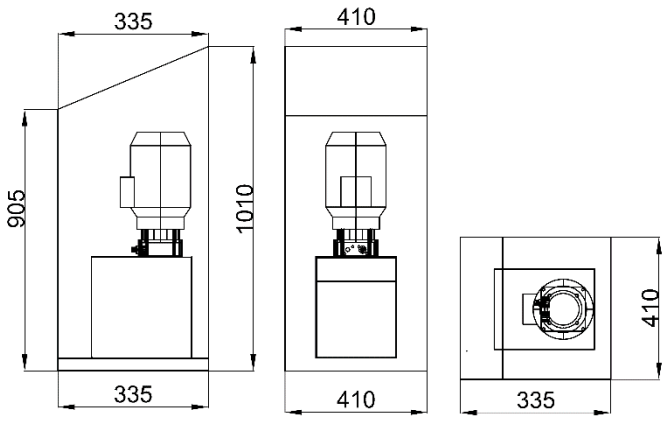




ATH Cross Lift 50 Plus elevated installation:







2.0 INSTALLATION

The machine must be installed by an authorised person according to the instructions.

	**The operating instructions (including the log) are an important part of the machine / product. !!!PLEASE STORE CAREFULLY!!!**

The product must be checked after completion of the installation, handover, if necessary briefing and then regularly in accordance with the applicable regulations and legal provisions in the country of operation by a suitable and approved company or facility.

2.1 Transport & Storage Conditions

When transporting and positioning the machine, always use suitable lifting and material handling equipment and consider the machine's centre of gravity.

The machine should only be transported with the original packaging.

Data:	2.550 kg
Width	700 mm
Length	5.000 mm
Height	1.440 mm
Storage temperature	-10 to +50 °C

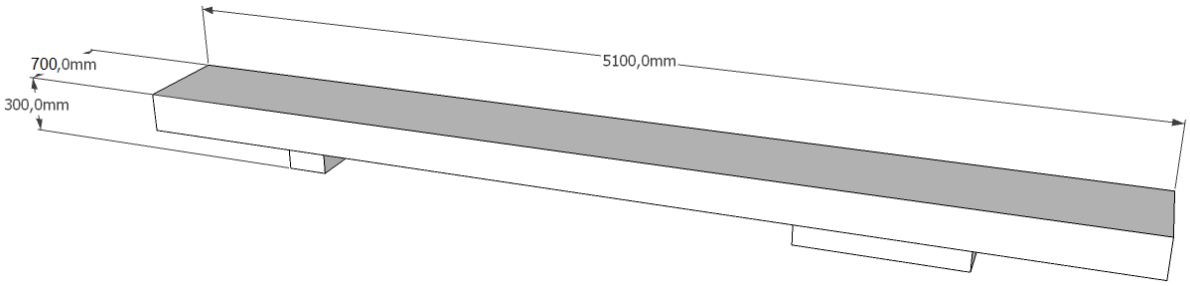
2.2 Unpacking the machine

	Remove the top cover of the packaging and make sure that no damage has occurred during transport. Remove the safety bolt to remove the machine from the pallet / rack. Use a suitable lifting device (possibly with a stopping rope) to lower the machine from the pallet / frame. The packaging material used for the machine should be stored carefully. Keep the packaging material out of the reach of children as it may be hazardous.

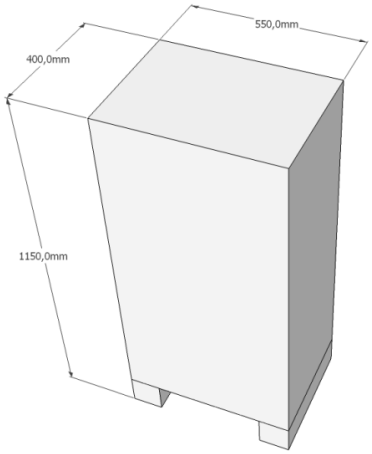
2.3 Delivery Contents

Basic package with:

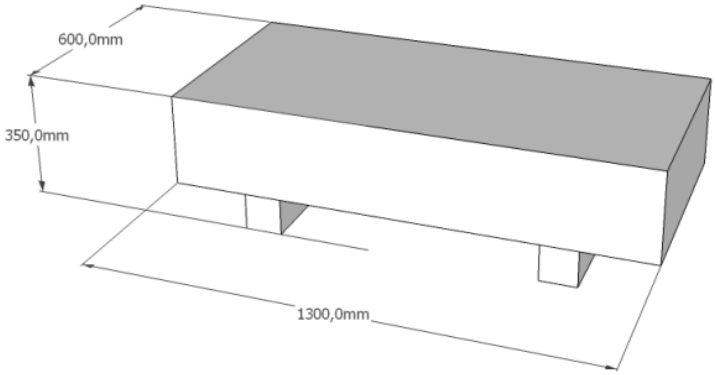
- 2 x pairs of scissors including integrated cylinders
  Dimensions (L x W x H): 5100 x 7000 x 300 mm
  Weight: 700 kg



- 1 x package with control box, hydraulic and pneumatic hoses:
  Dimensions (L x W x H): 400 x 540 x 1,140 mm
  Weight: 130 kg



- 1 x package with accessories, ramps and bridging track sections.
  Dimensions (L x W x H): 400 x 540 x 1,140 mm
  Weight: 130 kg



OPTIONAL
Scissor jacking beam 1 x 1000 x 600 x 400 mm Weight: 130 kg

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Tips for transport and storage:
- Lift carefully. Support the weight properly using suitable equipment that is in good order and condition.
- Avoid unexpected raises and jerky movements. Beware of bumps, gutters, etc.
- Store the removed packaging at a collection point inaccessible to children and animals until it is disposed.
- Storage temperature: 10 °C～+40 °C

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 be placed in a well-ventilated location.

The machine must be set up on sufficiently firm ground, if necessary, according to the minimum requirements of the information given in the foundation plan.

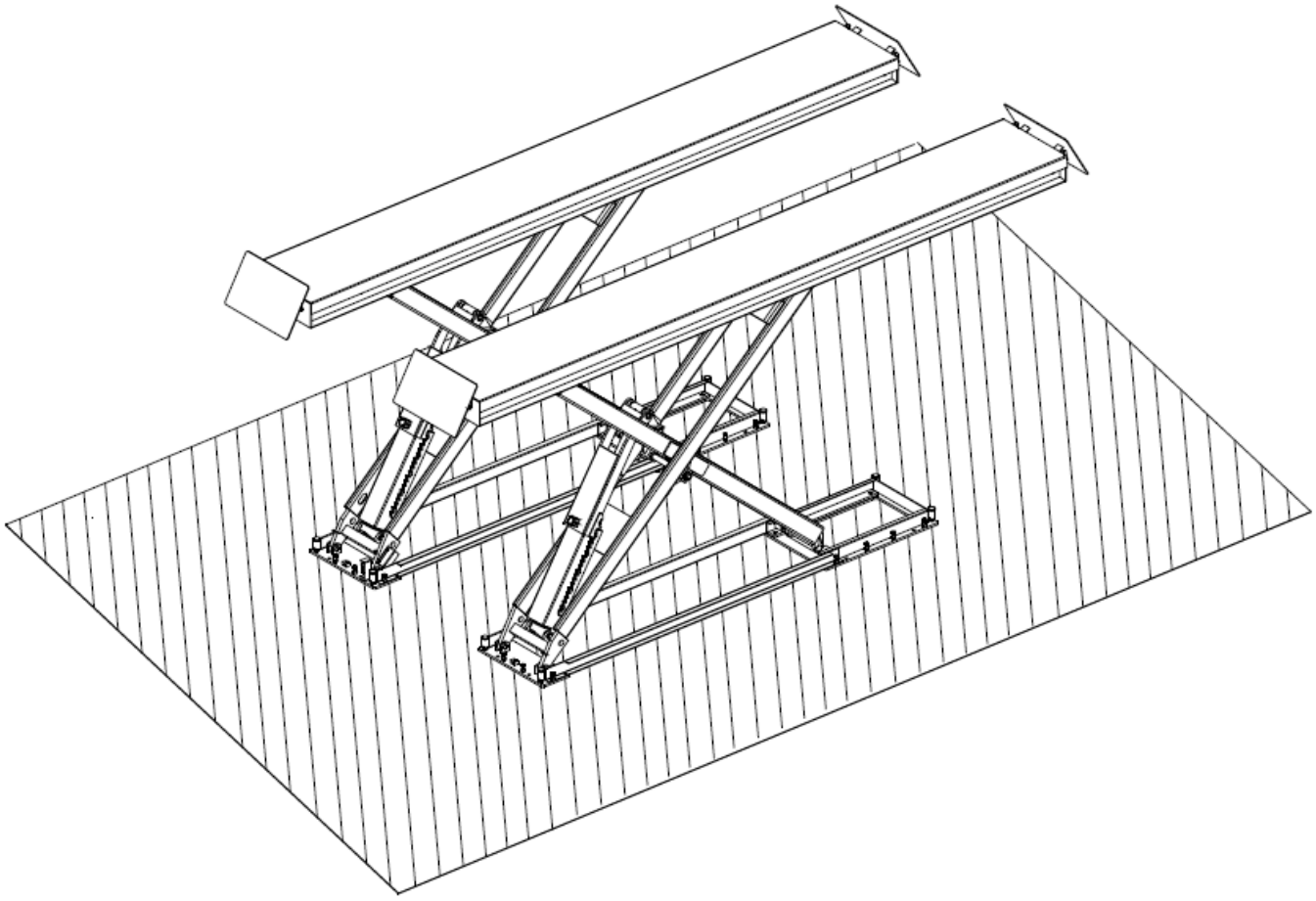
In addition to the ground conditions, the guidelines and instructions of the accident prevention regulations as well as the workplace regulations must be observed when selecting an installation site.

When assembling on floor coverings, check their load-bearing capacity. A construction expert should be consulted for inspection when mounting on floor coverings.

The machine should only be mounted and used within closed rooms. It has no corresponding safety features (e.g. IP protection, galvanised design, etc.).

Temperature	4-40 °C
Sea level	< 1500 m
Humidity	50% at 40 °C – 90% at 20 °C

Drawing



Safety area	min. 1 m
Permissible operating temperatures:	10 - 40 °C
Maximum permitted humidity:	≤80 % at 30 °C
Height above sea level:	≤ 2000 m

Power connection & earthing cable (see technical data) is to be installed as a connector system (socket and plug) or a fixed connection.

Required supply	See technical data

The lift may only be installed indoors and may **not** be installed outdoors.

2.5 Fixing

	General and local regulations must be observed. Therefore, these steps should only be carried out by a trained professional.

The machine must be set up and fixed on sufficiently firm ground, if necessary, according to the minimum requirements of the information given in the foundation plan.

The machine must be fastened at the points provided with suitable or specified fastening material.

In addition to the ground conditions, the guidelines and instructions of the accident prevention regulations as well as the workplace regulations must be observed when selecting an installation site.

When assembling on floor coverings, check their load-bearing capacity. A construction expert should be consulted for inspection when mounting on floor coverings.

2.6 Electrical Connection

	General and local regulations must be observed. Therefore, these steps may only be carried out by a trained professional. Pay attention to the necessary supply line (see technical data).

The connection should be made with a 230V Schuko plug or 5-phase 16 A CEE plug (partially included).

Voltage deviations should be 0.9 - 1.1 times the nominal voltage range and the frequency deviation should be 0.99 - 1.01 times the frequency range.
Necessary protective measures must be taken to guarantee this.

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

2.7 Pneumatic Connection

	For all pneumatic systems, a compressed air maintenance unit (partially included) 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 compressed air maintenance unit must be set correctly and checked.

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

The maximum or minimum pressure ensures perfect functioning without any damage.

2.8 Hydraulic Connection

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

All hydraulic lines must be connected and tightened according to the hydraulic plan and, if applicable according to the hose designation.

All hydraulic lines and cylinders must be vented according to the hydraulic plan and, if applicable, according to the hose designation.

In order to ensure the faultless and safe functioning of the system and the hose assemblies used, the hydraulic fluids used must comply with the specific instructions and recommendations of the manufacturer.

Used media that do not meet the specific requirements or which have unauthorised contamination damage the entire hydraulic system and shorten the service life of the hydraulic systems used. Warning: (system contamination can also occur when oil is refilled)

The minimum requirement and minimum oil quantity must be checked and ensured.

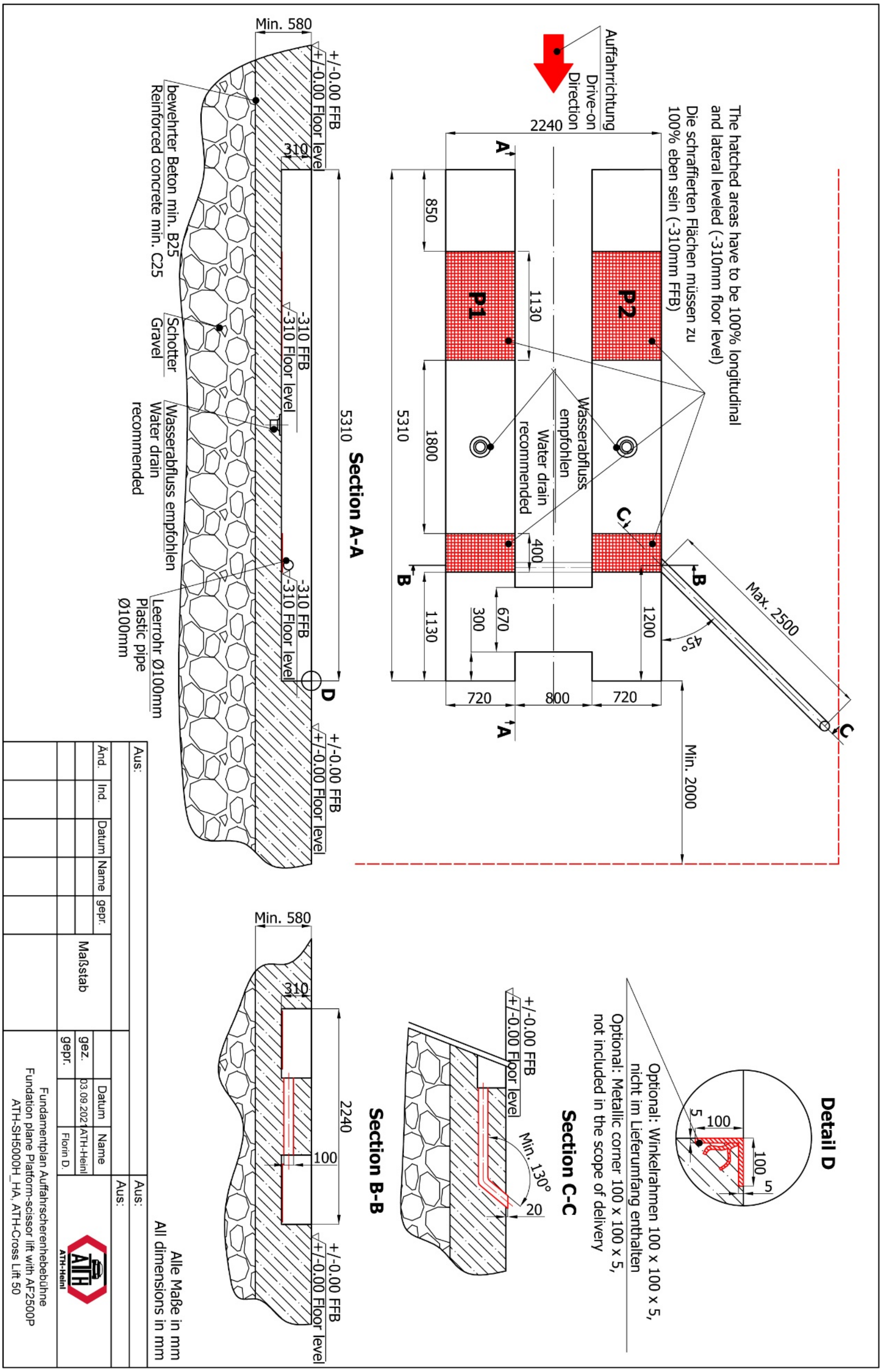
2.9 Assembly

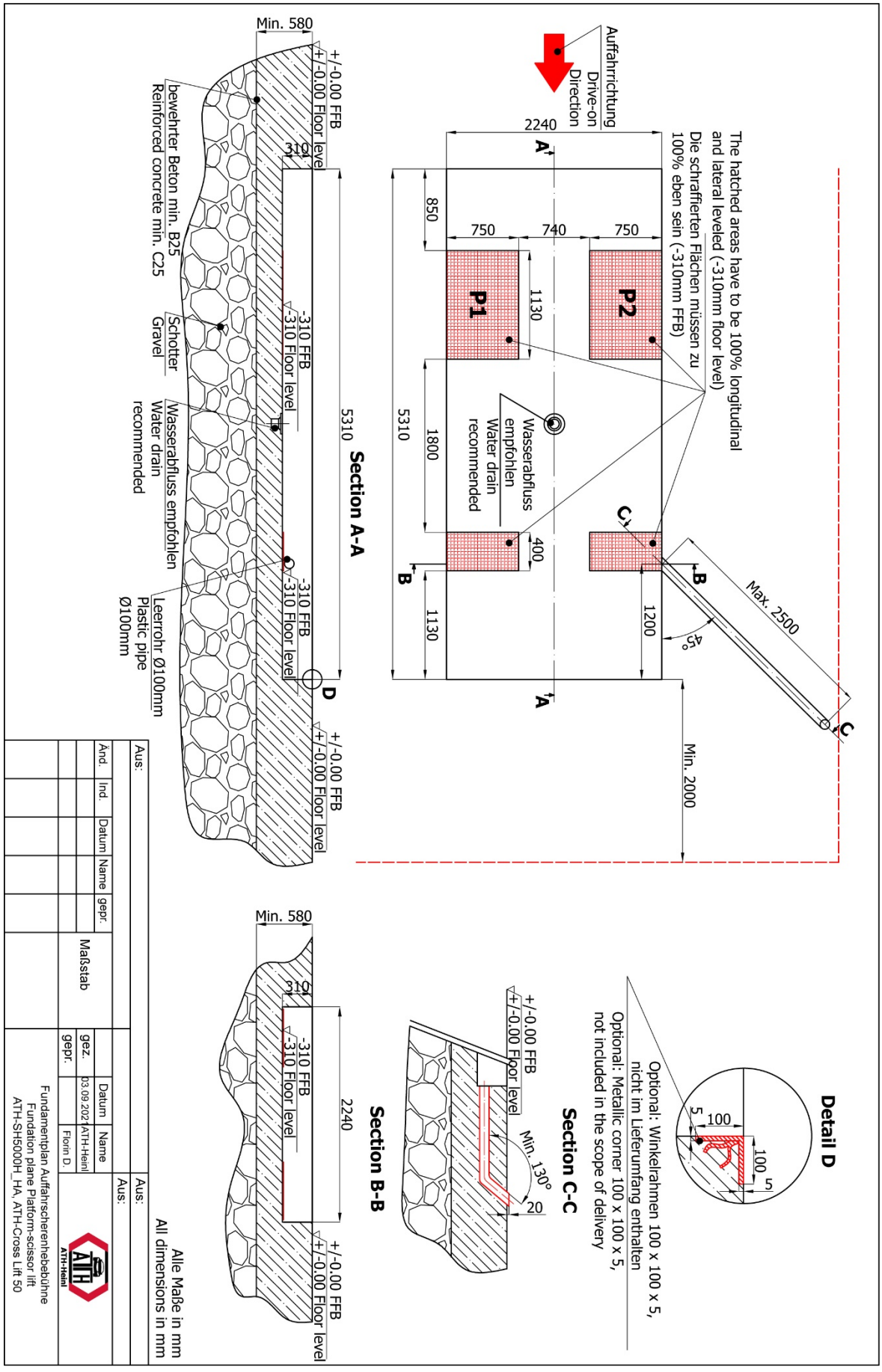
	These instructions are not to be viewed as assembly instructions; hints and tips are provided only for trained expert installers. Suitable clothing and personal protection must be worn for the following work. Incorrect installation and settings lead to exclusion of liability and warranty.

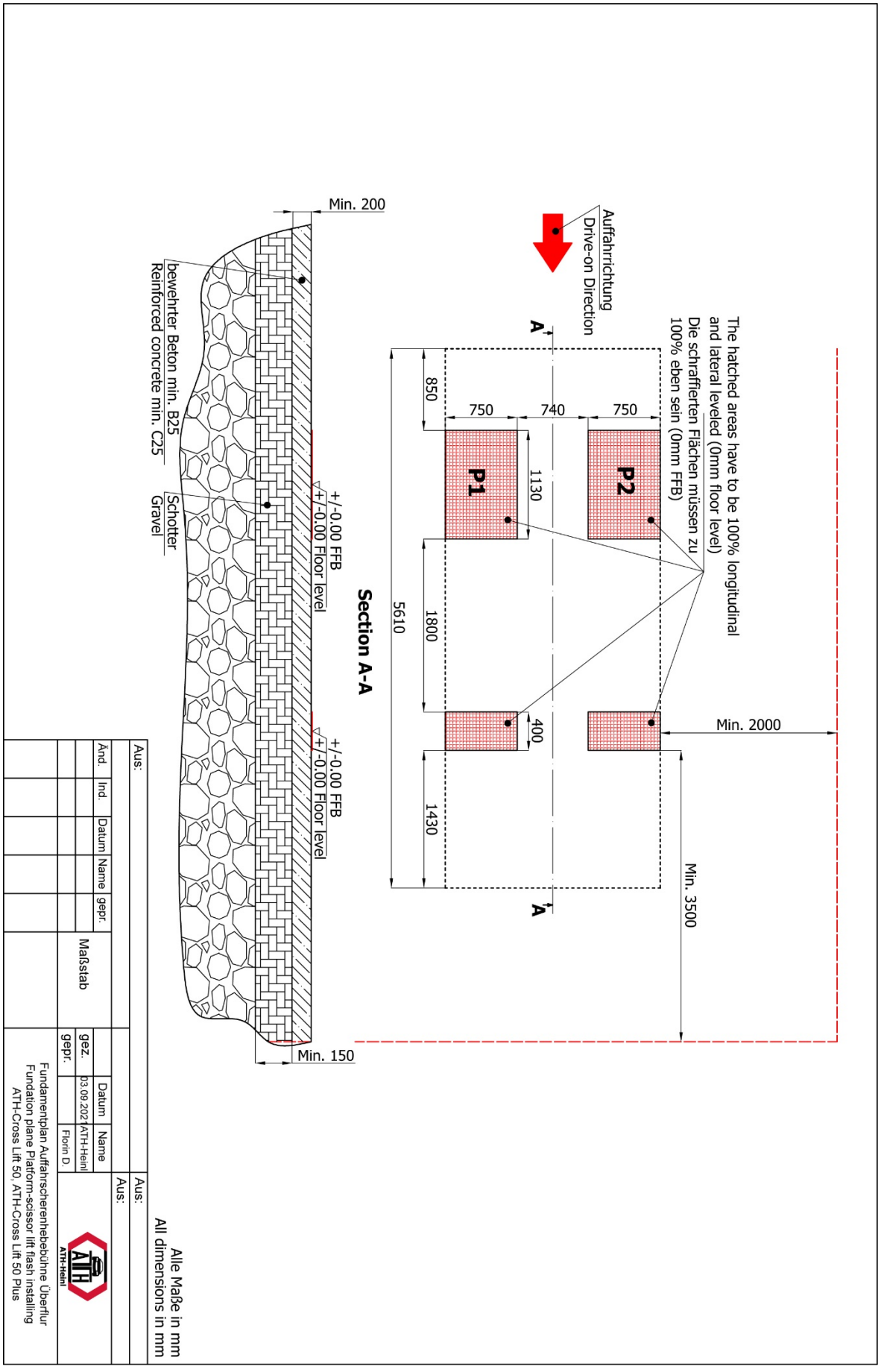
Partly pre-assembled machines must be checked, introduced and approved by a competent person before commissioning.

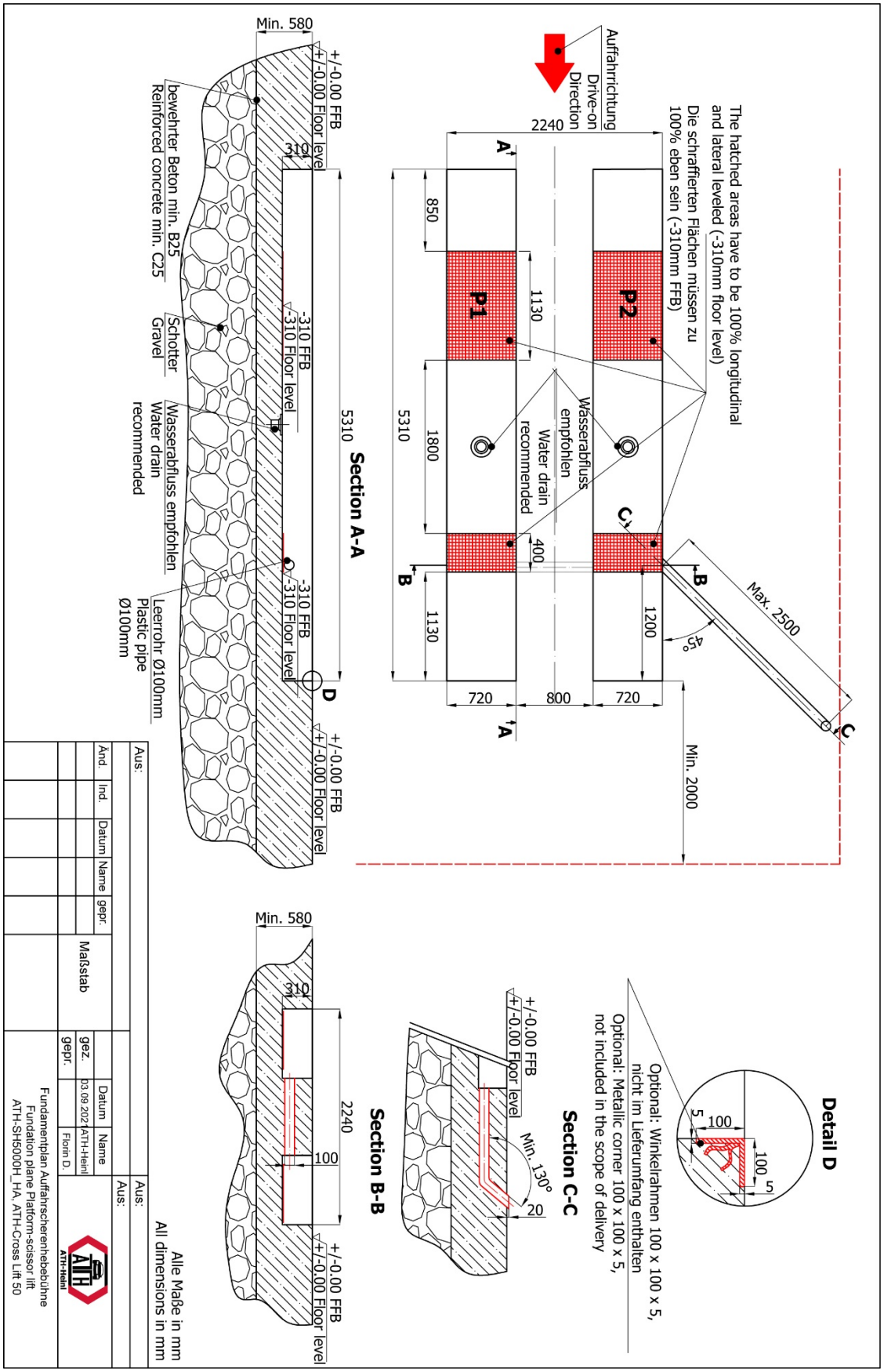
Machine assembly must be carried out by a qualified and competent person.

INSTALLATION
Foundation









Concrete quality:	C20/25
Concrete curing time:	min. 20 days

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Do not install the scissors on **asphalt** or **soft screed**.
There cannot be **any expansion joints** or **cracks** that may interrupt the continuity of the reinforcement.
The operator must check the load capacity of suspended ceilings.

⚠

Assembly

1. Setting up and aligning the pairs of scissors
    a. FOR UNDERFLOOR ASSEMBLY:
    Position both pairs of scissors in the pit provided and place the control box on the surface intended for this purpose.

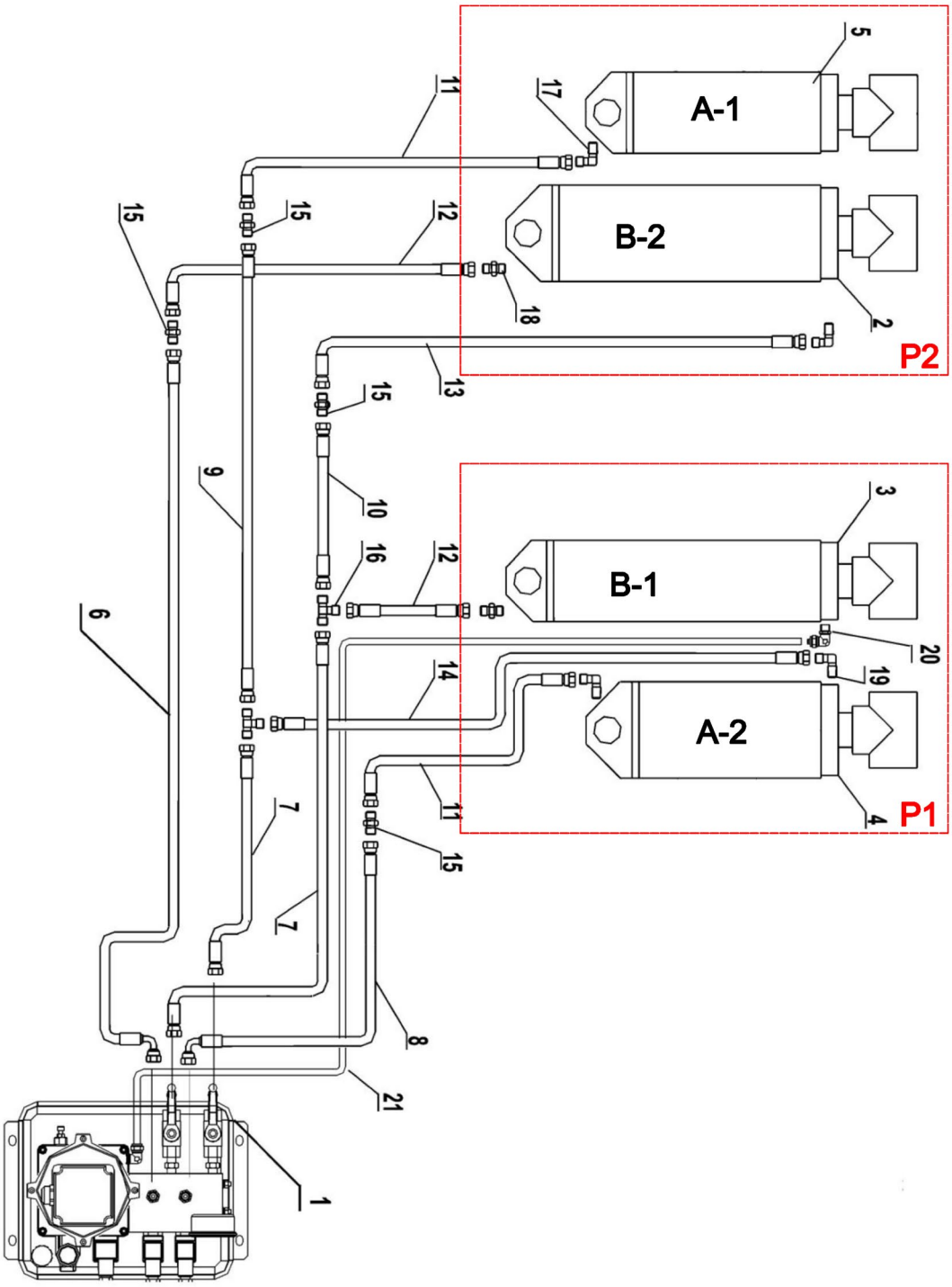
    FOR ELEVATED ASSEMBLY:
    Position both pairs of scissors parallel to one another and place the control box on the surface intended for this purpose, as detailed in the technical data section. Before fixing with dowels, ensure that both scissors are aligned and, if necessary, adjust using washers or plates.

2. Install hydraulic hoses

    a. Open the front cover of the control box.
    b. Install the hydraulic hose(s) as shown below.
    ⚠

Main lift
B-2 = Main cylinder
B-1 = Secondary cylinder

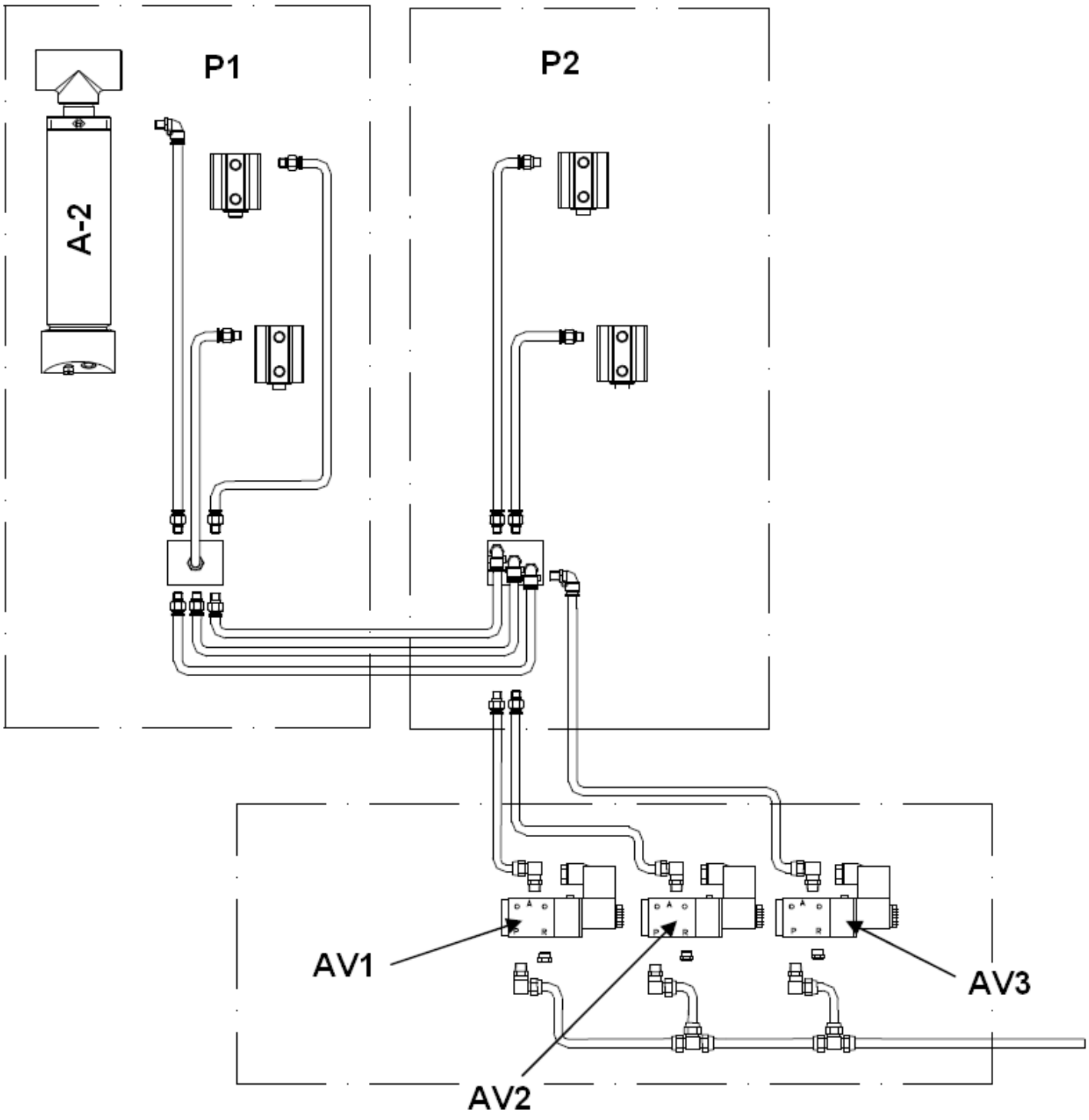
Wheel-free lift
A-2 = Main cylinder
A-1 = Secondary cylinder



3. Pneumatic connection

   a. Install the pneumatic hose(s) as shown below.

P1 = Secondary scissors main lift
A-2 = Secondary cylinder wheel-free lift
AV2 = Release for main lift
P2 = Main scissors main lift
AV1 = Release for wheel-free lift
AV3 = Lowering acceleration valve



4. Hydraulic oil

    a. Fill hydraulic oil up to the mark on the dipstick

5. Electrical connection
    a. The limit switches for the lift are only connected at this stage. Please install them first (see 11).

⚠ General and local regulations must be observed. Therefore, these steps may only be carried out by a trained professional with the relevant local licence/approval.
Pay attention to the necessary supply line (see technical data).

6. Bleeding the hydraulic circulation

Important!

Before the system is put into operation or operated with oil for the first time, the following must be observed with regard to optimal, trouble-free and virtually air-free functioning.

- Use the hydraulic oil that is specified (HLP 46 with additives)
- All hydraulic lines must be connected and tightened according to the hydraulic plan and, if applicable, according to the hose designation!

- A minimum quantity of 20 litres of oil is required! Use caution when filling for the first time!

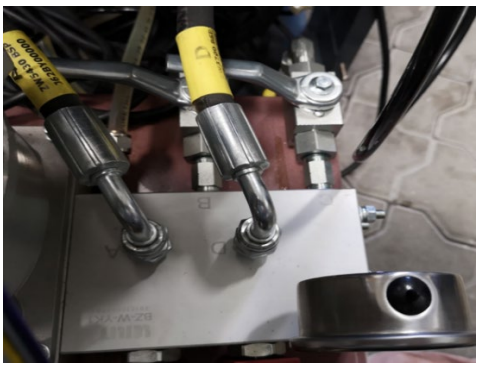
Main lift rails

1. All valves should be closed!
2. Selector switch on main scissors!
3. Open connection on the main cylinder (Hose A, Drawing A-2)!
4. Carefully press the lifting button and watch until hydraulic oil comes out of connection A!
5. As soon as the air has been released from the line and hydraulic oil appears, close the connection!
6. Raise the main scissors and leave in end position
7. Open valve B!
8. Open bleed valve on main cylinder!
9. Carefully press the lifting button (if necessary using the additional light barrier muting button) and watch until oil comes out of the bleed valve on the main cylinder!
10. As soon as the air has been released from the bleed valve on the main cylinder and hydraulic oil appears, close the connection!
11. Carefully press the lifting button until the lift is right at the top. Oil level warning.
12. Close valve B!
13. Lower the lift right down!
14. You can start by equating the rails from the main lift via the valve.

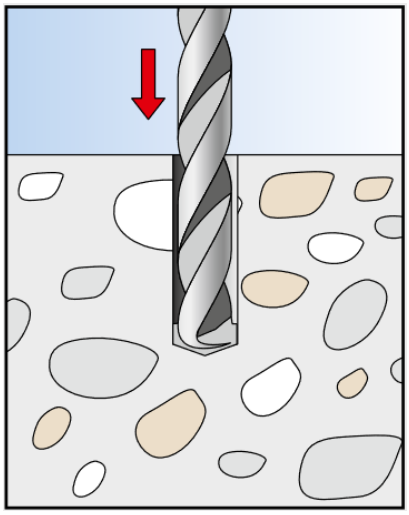
Wheel-free lift free lift

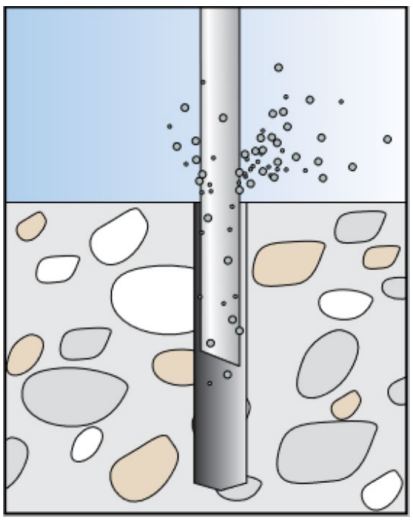
1. All valves should be closed!
2. Selector switch on wheel-free lift!
3. Open connection on the main cylinder (accelerated hose, Drawing A-2)!
4. Carefully press the lifting button and watch until hydraulic oil comes out of the accelerated hose!
5. As soon as the air has been released from the line and hydraulic oil appears, close the connection!
6. Raise the main scissors from the wheel-free lift and leave in end position
7. Open valve C!
8. Open bleed valve on secondary cylinder!
9. Open connection hose to the main cylinder (opposite side)!
10. Carefully press the lifting button and watch until hydraulic oil comes out of the bleed valve from the secondary cylinder!
11. As soon as the air has been released from the bleed valve on the secondary cylinder and hydraulic oil appears, close the connection!
12. Keep carefully pressing the lifting button and watch until hydraulic oil comes out of the connection hose to the main cylinder (opposite side)!
13. As soon as the air has been released from here as well and hydraulic oil appears, close the connection!

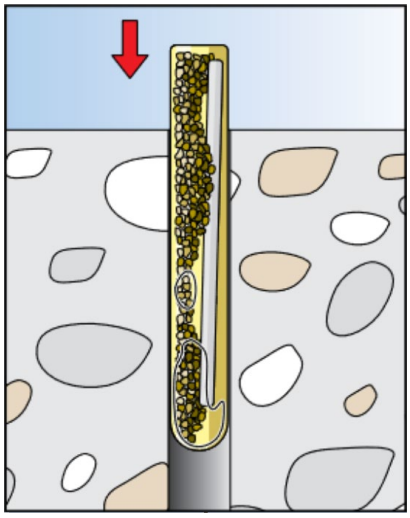
You can start by equating the rails from the free lift via the valve.

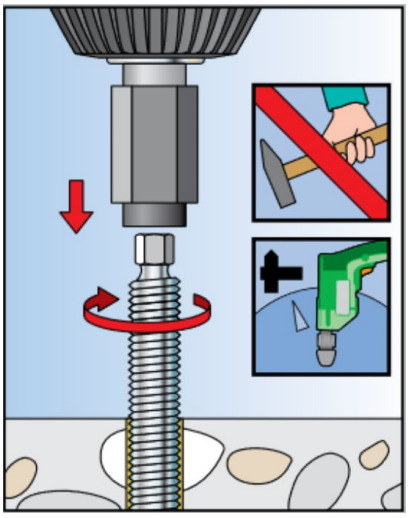


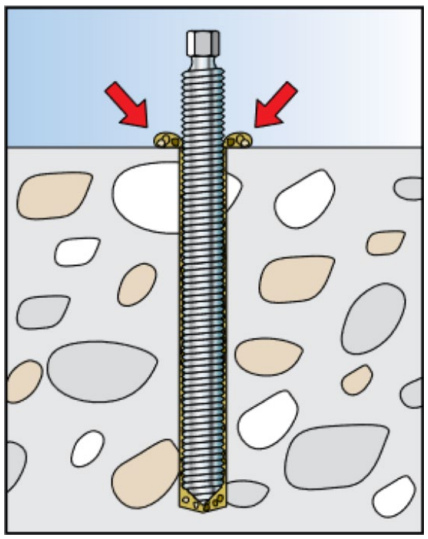
7. Fixing with safety anchor:

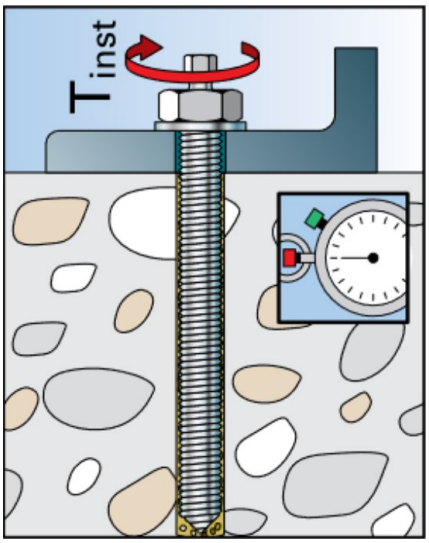






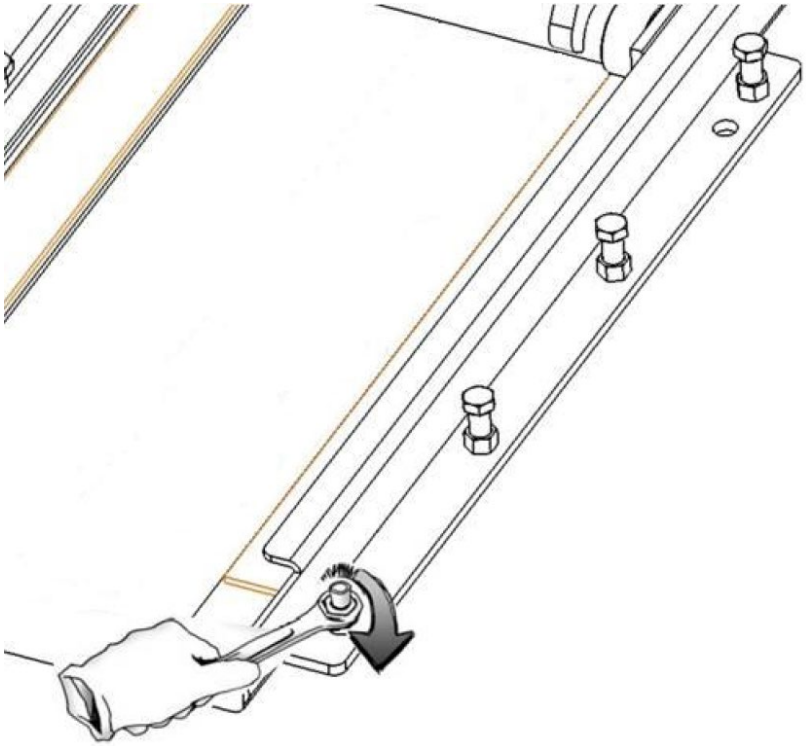




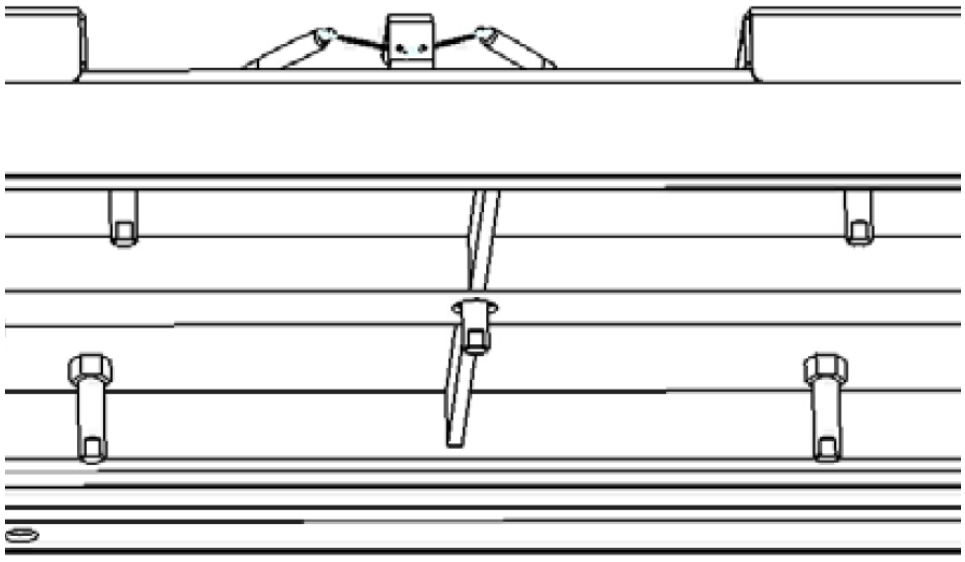


8. Lift configuration

   a. Raise the lift to a height of approx. 1,000 mm.
   b. Continue moving the lift to the next catch position and ensure that both scissors are in the same catch.
   c. Use a spirit level to check the level of the platform. If necessary, the platform can be adjusted using the built-in levelling screws.

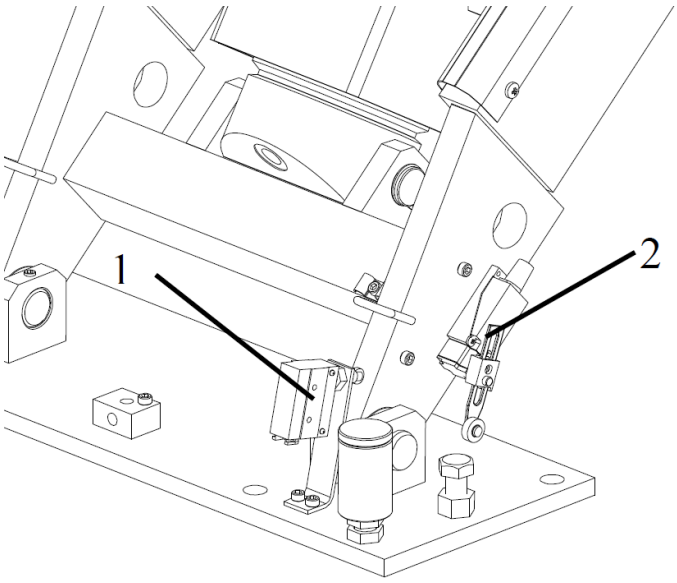


   d. When using an axle alignment turntable, this can be adjusted using the screw positioned underneath it (optional).



9. Limit switch installation

    a. Raise the lift up to the maximum height (see technical data).
    b. Install the limit switch (1) on the elbow and adjust this using suitable nuts so that the limit switch is activated in this position.
    c. Carry out a function test for the limit switch.
    d. Lower the lift to a height of 400 mm above the floor.
    e. Install the CE stop (2) on the scissors and adjust the shutdown arm so that it is activated in this position.
    f. Carry out a function test for the CE stop



10. Final function check

    a. Check the strength of the safety anchors
    b. Check synchronisation and light barriers
    c. Check function of limit switch
    d. Acoustic warning signal when the CE stop is reached
    e. Oil level check
    f. Lift a load of approx. 2,000 kg to a height of approx. 1,000 mm
    g. Lower the load to the first catch (approx. 500 mm).
    h. For further lifting, check the synchronisation and adjust this again if necessary.
    i. Lower the load and assemble the missing covers

11. After the set-up process, fill in the attached inspection log.

⚠

We recommend carrying out cavity sealing for optimum corrosion protection. Suitable silicone must also be used for the joints.

2.10 Completion of Work

	Before commissioning, check all fastening screws, electrical, pneumatic and hydraulic lines and, if necessary, tighten these. Warning: in some cases, this must be checked at regular intervals and tightened if necessary (note in the instructions).

3.0 OPERATION

3.1 Operating Instructions

Company: Place of work:	**Operating Instructions** for **Lifting Platform**	Date: Signature:

Risks to People and the Environment

- Falling of loads or parts
- Crushing and shearing points when moving the lifting platform
- Danger due to uncontrolled moving parts

Protective Measures and Rules of Conduct

Before starting work:

- Lifting platforms may only be used independently by trained persons over the age of 18 who have been instructed in writing.
- When working with more than one person, a supervisor must be appointed
- Daily functional check
- Observe the manufacturer's operating instructions

During operation:

- Pay attention to crush and shear points in the environment
- Do not load the lifting platform above the permitted maximum load
- Do not lift people
- Do not shake the lifting platform, avoid rocking.
- When lowering, do not stand in the lifting platform movement area
- Arrange regular checks of the lifting platform

Response to faults and hazards

- In case of fault, stop the lifting platform immediately
- Secure against further use
- Report defects to the installer or manufacturer

First Aid

- Inform first aiders (see alarm/emergency plan)
- Treat injuries immediately
- Enter into the accident book
- Contact emergency services for serious injuries

Emergency number: _____

Ambulance service: _____

Maintenance

- Repair only by instructed and trained persons
- Disconnect or secure the lifting platform from the mains power supply for set-up, adjustment, maintenance or servicing
- Clean the lifting platform after operation and check the hydraulic level
- **Annual check** of the lifting platform by an authorised and trained person

3.2 Basic Information

Independent operation of the machine may only be carried out by persons over the age of 18 who have been trained in the operation of the machine and have demonstrated their ability to do so to the employer. They must be expressly contracted by the employer to operate the machine. The order to operate the machine must be given in writing.

The machine must only be used for its intended use.

Always use appropriate material during installation and operation.

Before assembly or disassembly check all components for damage.

If necessary, observe special manufacturer instructions for mounting or dismounting of vehicle-specific work.

An important part of the guarantee / warranty is fulfilment of the maintenance plan. This includes in particular, ensuring cleanliness, corrosion protection, checks and repairing damages immediately if required.

During operation attention should always be paid to hazards. As soon as dangers occur, switch off the machine immediately, remove the mains plug and disconnect the air supply.
Then contact your dealer.

All warning labels must always be easy to read. If damaged, they must be replaced immediately.

	Pay attention to possible shearing points around the machine.
	During operation, the noise can reach 85dB (A), so the operator should take appropriate protective measures.
	Moving parts of the machine can catch loose clothing, long hair or jewellery.

4.0 MAINTENANCE

The user must maintain the machine regularly to ensure safe operation.

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

	Before maintenance and repair work: - The machine must be disconnected from ALL supply networks - Pull main switch out of mains plug, if necessary, discharge compressed air from system - Appropriate measures must be taken against a restart
	Work on electrical elements or on the supply line may only be carried out by experts or electricians.

4.1 Consumables for installation, maintenance and servicing

Hydraulic Oil
General minimum requirement:
Eni PRECIS HVLP-D Item No. 00066018
Summer (15° to 45°): HVLP-D 46 (e.g.: Eni PRECIS HVLP-D)
Winter (under 10°): HVLP-D 32 (e.g.: Eni PRECIS HVLP-D)

Minimum requirement **especially for 2-post lifts:**
Eni PRECIS HVLP-D Item No. 00067218
Summer (15° to 45°): HVLP-D 32 (e.g.: Eni PRECIS HVLP-D)
Winter (under 10°): HVLP-D 22 (e.g.: Eni PRECIS HVLP-D)

Preservative for ropes, welds, screws, corners, edges and cavities.
Minimum requirement:
Petec spray translucent - 500 ml Item No. 73550 / Petec wall inlet translucent - 1000 ml Item No. 73510
Petec UBS pistol Item No. 98507

Slideway lubricant
Minimum requirement:
STORER WHS 2002 White EP high performance grease. Item No. KPF1-2K-20

Lubricant for bushes, chains, rollers & moving parts
Minimum requirement:
White ultra lube, 500 ml aerosol. Item No. 34403 – WUL – White Ultra Lube

Floor anchor
Minimum requirement **for lifting platforms:**
Fischer FIS A M 16 x 250 galvanised in combination with Fischer Superbond reaction cartridge

Minimum requirement for **passenger car and passenger car/truck balancing machine:**
Impact anchor M8 x 100

Minimum requirement **for truck mounting machine:**
Impact anchor M12 x 100

Compressed air system
Minimum requirement:
PROMAT chemicals special compressed air oil Item No.: 4000355209

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 wall inlet translucent - 1000 ml Item No. 73510
Petec UBS pistol Item No. 98507

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

4.2 Safety Regulations for Oil

Always observe the legal requirements or regulations for handling used oil.

Always dispose of used oil through a certified organisation.

In the case of leaks, oil must be collected immediately with binders or trays so that it cannot penetrate into the soil.

Avoid any skin contact with the oil.

Do not allow oil vapours to escape into the atmosphere.

Oil is a combustible medium. Pay attention to possible hazards.

Wear oil-resistant protective clothing, such as gloves, goggles, protective clothing, etc.

4.3 Notes

	Regardless of the level of dirt, the machine must be maintained, cleaned and serviced at regular intervals. The machine should then be treated with a care product (such as oil or wax spray). Do not use cleaning agents that are harmful to the skin. IF THE ABOVEMENTIONED POINTS ARE NOT FULFILLED, THE WARRANTY CLAIM IS EXCLUDED

4.4 Maintenance or Service Plan

Interval	Immediately	Weekly	Monthly	Every 3 months	Every 6 months
Check of ALL safety-relevant parts	X				
Cleaning	X				
Check or restore surface protection	X				
Check for leaks in the hydraulic system	X				
Check or restore surface protection or corrosion protection	X				
Check or restore damage to the paint and components	X				
Check or restore rust damage	X				
Check or treat cavities and non-painted areas	X				
Check for leaks in the pneumatic system	X				
Control the tightness of screws	X				
Check, lubricate & adjust bearing slack	X				
Check wear parts		X			
Check fluids (level, wear, contamination, quality)		X			
Check and lubricate sliding surfaces		X			
Remove any dirt inside			X		
Clean and check electrical components				X	
Check motor and transmission for function and wear				X	
Check welds and construction				X	
Visual inspection (according to inspection plan)					X

4.5 Troubleshooting / Error Display and Solutions

Symptoms	Cause	Solution
Lifting Problems		
Lifting platform does not lift when button is pressed (motor does not run)	Damage to the motor	Check motor and replace if necessary
	Blown fuses from e.g. voltage fluctuations	Remedy the causes and replace the 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 line	Replace cable
	Fluctuating or incorrect input voltage	Check power
	Defective motor contactor	Replace motor contactor
	Thermal relay has tripped	Check thermal relay and motor
	Limit switch defective or blocked	Check limit switch and replace if necessary
Lifting platform does not lift when button is pressed (motor runs)	Hydraulic oil shortage	Refill oil
	Oil filter blocked	Clean the oil filter
	Oil leakage	Replacement of damaged components
	Opened lowering valve	Check and replace the lowering valve if required
	Motor rotates in wrong direction	Replace phases
	Broken gear pump	Check the pump and replace if necessary
	Permissible load has been exceeded	Work within the specified load
	Pressure relief valve set too low	Set pressure relief valve to maximum load
Lifting platform lifts jerkily	Not enough space between rails	Distance between rails and guide must be 1.5 - 2.5 mm
	Air in hydraulic system	Bleed the hydraulic system
	Contaminated hydraulic oil	Change the hydraulic oil
	Slideways are not lubricated	Lubricate the slideways
Lifting platform continues to lift after releasing the button	Defective button	Replace the defective button

Lowering Problems		
Lifting platform does not lower	Safety catches do not respond	Check cable connection Check electromagnets, replace if necessary Relieve the catches by lifting
	Defective control relay	Check control relay
	Obstruction under platform	Remove obstruction
	Hose rupture protection triggered	Lift the platform briefly and press "DOWN" again
	Lowering valve is not activated	Check electrical connection
	Defective lowering valve solenoid	Replace solenoid
	Defective lowering valve	Replace
	Valve for lowering speed set incorrectly	Set
If the errors cannot be rectified, lower the lifting platform with the emergency lowering screw and contact our service team		
Platform lowers too slowly or jerkily	Contaminated lowering valve	Clean lowering valve
	Valve for lowering speed set incorrectly	Set
Lifting platform lowers by itself	Leaking hydraulic connections	Retighten connections if necessary
	Leaking hydraulic lines	Replace hydraulic line
	Leaking hydraulic cylinder	Replace and clean the seals of the hydraulic system
	Dirty or defective lowering valve	Clean or replace the lowering valve
	Leaking check valve	Clean or replace
Other Problems		
Lifting platform does not raise or lower synchronously	Air in hydraulic circuit	Bleed the hydraulic circuit
	Synchronising cables not tight enough	Adjust the tension or the synchronicity
Product shows (heavy) rust damage	Damage or lack of corrosion protection, possibly maintenance	Remove rust, clean and restore surface.
Abnormal motor volume	Dirty oil filter	Clean the oil filter
	Air in hydraulic circuit	Bleed the hydraulic system
	Contaminated hydraulic oil	Change the hydraulic oil
Circuit breaker has been activated	Check the contact on the contactor	Replace the contactor
	Check the capacity of circuit breakers	Replace the fuses
	Check for damage to the cable	Replace the cable

ALWAYS USE ORIGINAL PARTS AND ACCESSORIES.

4.6 Maintenance and Service Instructions

⚠	All maintenance and service work should be carried out at least according to the maintenance schedule

COMPRESSED AIR MAINTENANCE UNIT
(Partial stock if necessary for the activity)

SETTING THE WORKING PRESSURE:

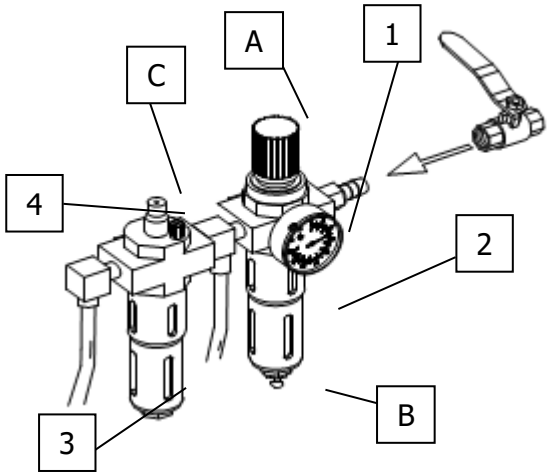
- Check the working pressure displayed by the manometer (1). This must correspond to the technical data.
- The working pressure can be adjusted with a pressure regulator (A).
- Pull the pressure regulator upwards to make adjustments.
- Turn the knob clockwise to increase the pressure in the machine, turn it counter clockwise to decrease.

OILER

- Check the oil level in the oil reservoir (3).
- Remove the oil reservoir.
- Now refill the tank with a pneumatic oil with a viscosity of SAE20.
- Check the injection quantity of the oil through the viewing glass (4).
- Generally, the screw must be closed completely in a clockwise direction and then opened again about ¼ to ½ turn by turning it counter clockwise.

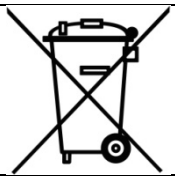
WATER SEPARATOR

- Check the water level in the separator (2).
- Water is drained when the valve (B) is opened.



4.7 Disposal

- Remove the air and power supply.
- Remove all non-metallic substances and store them in accordance with local regulations.
- Remove the oil from the machine and store it in accordance with local regulations.
- Recycle all metallic substances.

	The machine contains some substances that can pollute the environment and cause harm to the human body if not handled correctly.

5.0 EG-/EU-KONFORMITÄTSERKLÄRUNG / EC-/EU-DECLARATION OF CONFORMITY

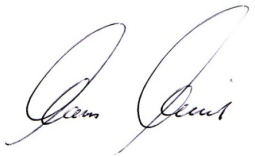
gemäß Maschinenrichtlinie 2006/42/EG, Anhang II 1A, EMV-Richtlinie 2014/30/EU, Anh. IV
In accordance to Machine Directive 2006/42/EG, Appendix II 1A, EMC Directive 2014/30/EU, App. IV

Seriennummer *Serial number*	
Firmenbezeichnung und vollständige Anschrift des Herstellers *Business name and full address of the manufacturer*	**ATH-Heinl GmbH &Co. KG** Gewerbepark 9 DE-92278 Illschwang
Name und Anschrift des Dokumentations-Bevollmächtigten *Name and address of the Technical Files authorized representative*	**ATH-Heinl GmbH &Co. KG** Gewerbepark 9 DE-92278 Illschwang

Hiermit erklären wir, dass die nachfolgend bezeichnete Maschine in der von uns in Verkehr gebrachten Ausführung den einschlägigen, grundlegenden Sicherheits- und Gesundheitsanforderungen der EG-Richtlinie 2006/42/EG sowie den unten aufgeführten Harmonisierungsrechtsvorschriften entspricht.
We herewith declare that that the machine described below, as a result have been brought on to the general market comply with the relevant fundamental Safety and Health regulations of the of Directive 2000/60/EC and the harmonized standards listed below.

Beschreibung der Maschine / *Descriptions of the machine*	**Hebebühne für Fahrzeuge / *Car lift***
Typbezeichnung *Model name*	ATH Cross Lift 50
Der oben beschriebene Gegenstand der Erklärung erfüllt die folgenden einschlägigen Harmonisierungs-Rechtsvorschriften der Union *The object of the declaration described above meets the following applicable Community harmonisation legislation*	Richtlinie 2006/42/EG, EU-Abl. L157/24 vom 09.06.2006 Richtlinie 2014/30/EU, EU-Abl. L 96/79 vom 29.03.2014
Folgende harmonisierten Normen und Vorschriften wurden eingehalten *The following harmonized standards and regulations are applied*	DIN EN 1493:2010 (Machine-Directive) DIN EN 60204-1: 2006+A1:2009 (Low voltage directive)
Prüfinstitut *Institute of Quality*	CCQS UK Ltd., Level 7, Westgate House, Westgate Rd., London W5 1YY UK
Referenznummer der technischen Daten *Reference number for the technical data*	TF-C-0106-12-02-17-5A
Nummer des Zertifikats *Number of the certificate*	CE-C-0106-12-02-17-5A (Machine-Directive)

ATH-Heinl GmbH &Co. KG
Gewerbepark 9
DE-92278 Illschwang
October 2012

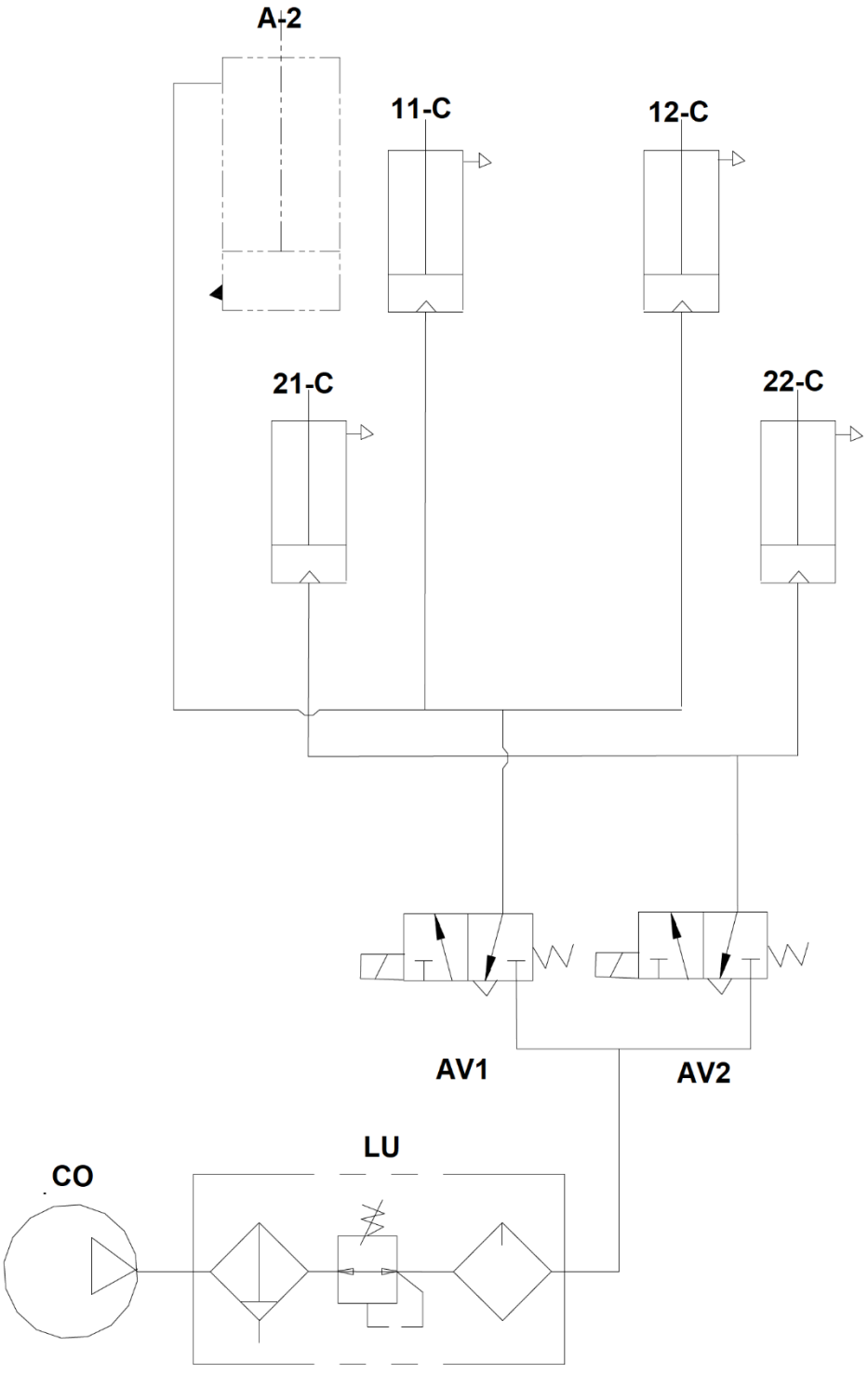


Hans Heinl
(Geschäftsführer / *General Manager*)

DURCH UMBAUTEN UND/ODER VERÄNDERUNGEN AN DER MASCHINE WIRD DIE CE-PRÜFUNG AUSSER KRAFT GESETZT UND EINE HAFTUNG AUSGESCHLOSSEN.
BY MODIFICATION AND / OR CHANGES TO THE MACHINE, THE CE EXAMINATION IS EXCLUDED WITHOUT LIMITATION AND A LIABILITY SHALL BE EXCLUDED.

6.0 APPENDIX

6.1 Pneumatic circuit diagram



A-2: Secondary cylinder wheel-free lift

11-C: Pneumatic cylinder for unlocking secondary scissors on main lift

12-C: Pneumatic cylinder for unlocking main scissors on main lift

21-C: Pneumatic cylinder for unlocking main scissors on wheel-free lift

22-C: Pneumatic cylinder for unlocking secondary scissors on wheel-free lift

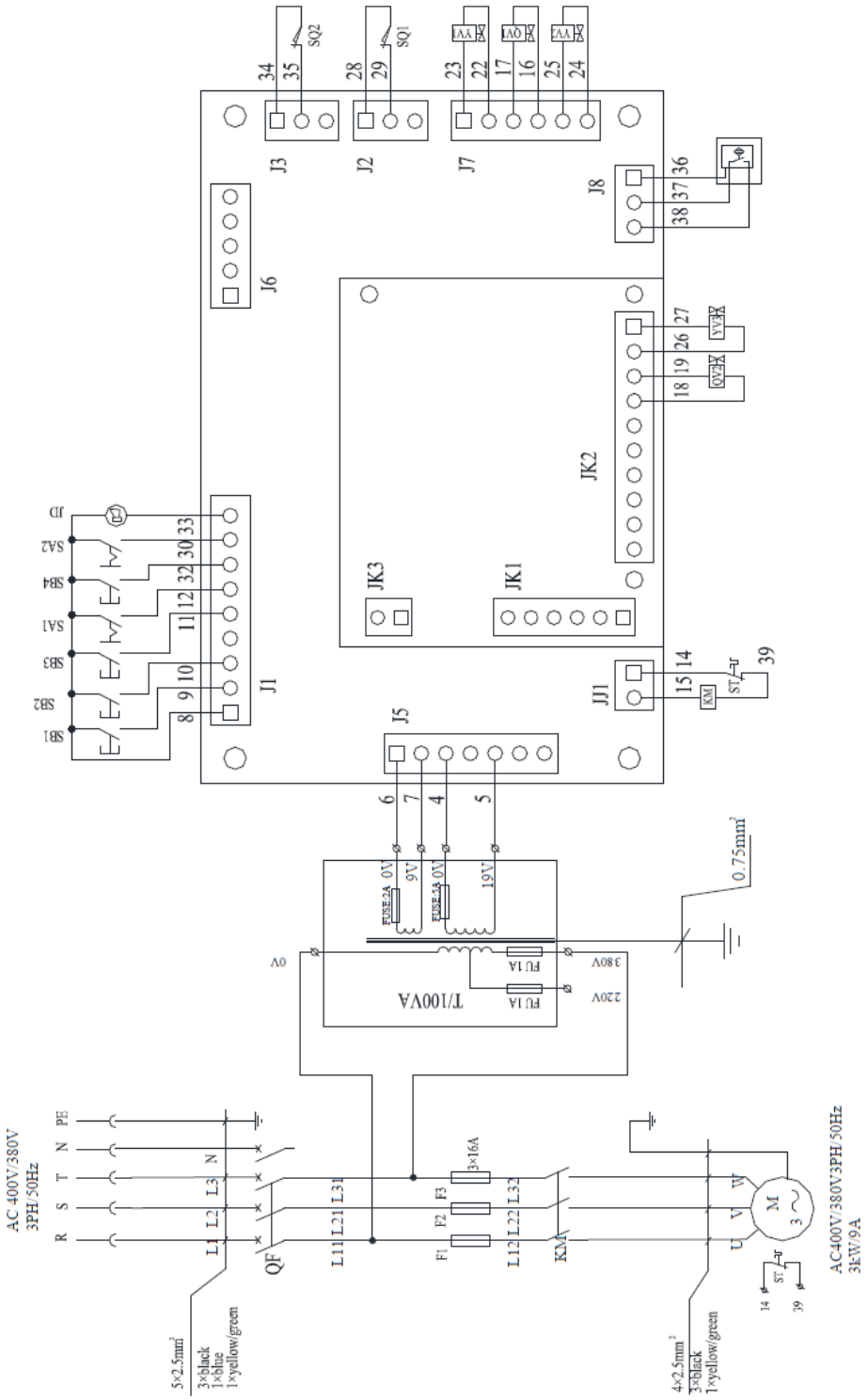
AV1: Release for wheel-free lift

AV2: Release for main lift

LU: Compressed air maintenance unit (not included in scope of delivery)

CO: Compressor (not included in scope of delivery)

6.2 Electric circuit diagram



QF: Main switch

M: Motor

ST: Thermal relay

T: Transformer 100 VA

KM: DC contactor

SB1: Lifting button

SB2: Lowering button

SB3: Safety button

SB4: Button for muting the light barrier

SA1: Selector switch for main or wheel-free lift

SA2: Work / adjustment selector switch

JD: Alarm

SQ1: Lift limit switch

SQ2: CE stop limit switch

YV1: Electromagnet for lowering valve

YV2: Switch electromagnet for main lift

YV3: Switch electromagnet for wheel-free lift

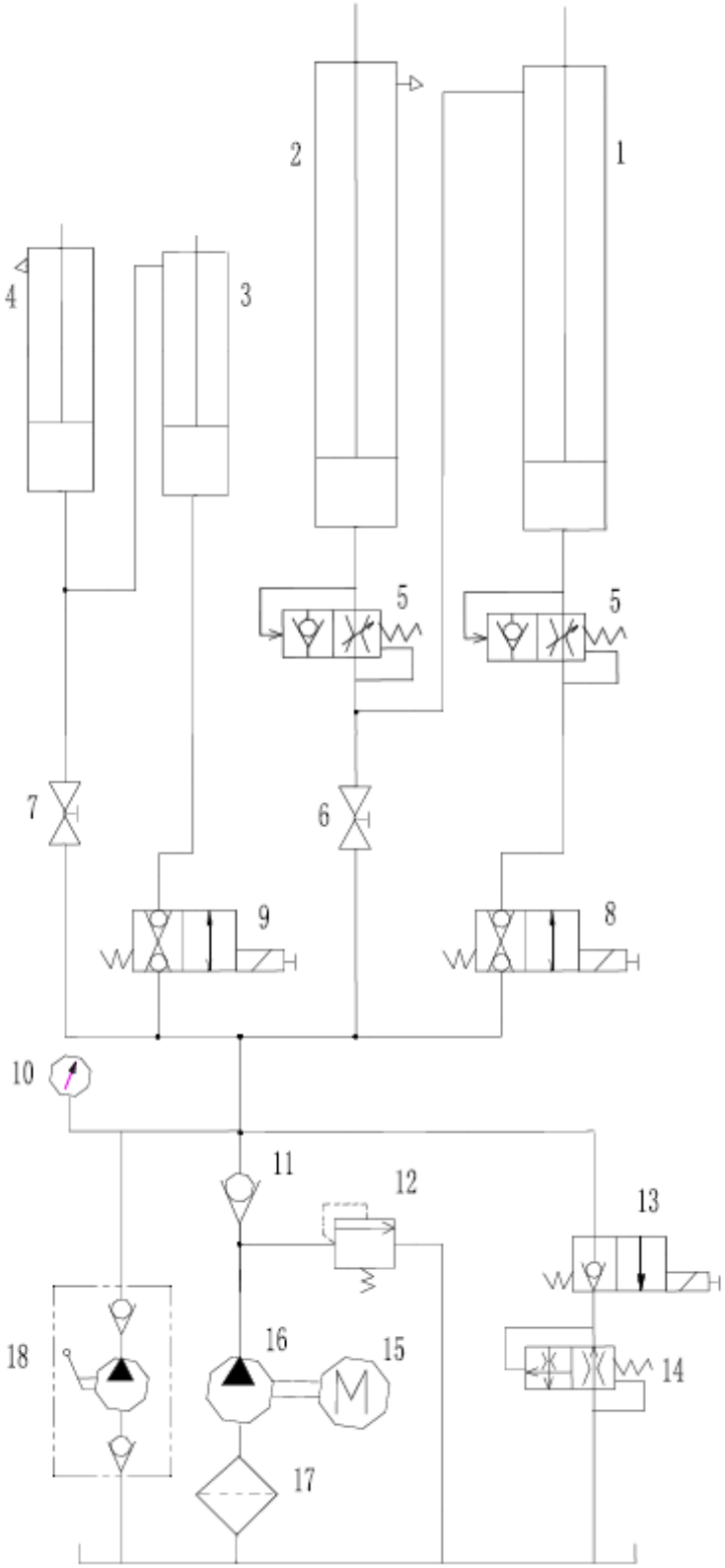
QV1: Air valve for main lift

QV2: Air valve for wheel-free lift

QY3: Air valve to accelerate the lowering of the wheel-free lift

PH: Light barrier

6.3 Hydraulic circuit diagram



1 Main cylinder main lift P1

2 Secondary cylinder main lift P2

3 Main cylinder wheel-free lift P2

4 Secondary cylinder wheel-free lift P1

5 Check valves

6 Balancing valve 1 main lift

7 Balancing valve 2 wheel-free lift

8 Switch electromagnet for main lift

9 Switch electromagnet for wheel-free lift

10 Manometer

11 Check valve

12 Pressure limit valve

13 Electromagnet for lowering valve

14 Valve for lowering speed

15 Motor

16 Pump

17 Oil filter

18 Emergency manual pump

7.0 WARRANTY CARD

Dealer address:

Company (or customer number):

Contact partner:

Street:

Postcode & town:

Tel. & Fax:

Email:

Customer address:

Company (or customer number):

Contact partner:

Street:

Postcode & town:

Tel. & Fax:

Email:

Manufacturer & model: Serial number: Year of construction: Reference number:

Message description:

Description of required spare parts:
Spare part: Item number: Amount:

IMPORTANT:
Damage resulting from improper handling, lack of maintenance or mechanical damage is not covered by the warranty. For systems that have not been installed by an ATH approved installer, the warranty is limited to the provision of the necessary spare parts.

Transport damages:
☐ Visible defect (visible transport damage, note on freight forwarder delivery note, immediately send copy of the delivery note and photos 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 for the devices structure
- Power supplies, hydraulic cylinders and all other wear components such as turntables, rubber plates, ropes, chains, valves, switches, etc., are limited to one year under normal circumstances/use under warranty conditions.

The warranty does not extend to:

- Defects caused by normal wear and tear, misuse, transport damage, improper installation, tension or lack of required maintenance.
- Damage caused by neglect or failure to follow the instructions in this manual and/or other accompanying instructions.
- Normal wear and tear on parts requiring service to keep the product in safe working condition.
- Any component that has been damaged during transport.
- Other components that have not been explicitly listed but are considered to be general consumables.
- Water damage caused by e.g. rain, excessive humidity, corrosive environments or other contaminants.
- Blemishes that do not affect function.

WARRANTY IS NOT VALID,
IF THE WARRANTY CARD WAS NOT SENT TO ATH-HEINL.

Damage and malfunctions caused by non-compliance with maintenance and adjustment work (according to operating instructions and/or training), faulty electrical connections (rotating field, rated voltage, protection) or improper use (overload, outdoor installation, technical changes) are excluded from the warranty!

8.0 INSPECTION LOG

⚠	**This inspection manual (including log) is an important part of the operating instructions and product. !!!PLEASE STORE CAREFULLY!!!**

Check
The product must be checked after completion of the installation, handover, if necessary briefing and then regularly in accordance with the applicable regulations and legal provisions in the country of operation by a suitable and approved company or facility.

In the case of changes or extensions to the product type, an additional inspection book must be maintained and accepted.

Scope of Inspection
In addition to perfect function, cleanliness and maintenance requirements, it is vital that the safety-relevant components of the entire system are checked.

Technical Data
- Please refer to the enclosed operating instructions.

Nameplate
- Make a note of all the data below
- Manufacturer & type of mounting materials used:

ATH-Heinl

Typ Type		Volt	
Serien # Serial #		Ph	
Baujahr Year of built		Hz	
		Amp.	
		kW	

CE

Designed by ATH-Heinl Germany
Manufactured in China

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

8.1 Installation and Handover Log

Site:
Company:
Street:
Town:
Country:

Device / system:
Manufacturer:
Type / model:
Serial no.:
Year of construction:

Responsible retailer:

The above product has been assembled, checked for function and safety and put into operation. Installation was carried out by:
☐ the operator ☐ the technical expert

The operator confirms that the product type has been set up correctly, that he/she has read and understood all information contained in these
operating instructions and the log, and that he/she keeps this documentation accessible to the instructed operator at all times.

The operator confirms that after installation and commissioning by a person trained by the manufacturer or an authorised dealer (expert), instruction in the function, handling, safety-relevant specifications, maintenance and care of the machine has taken place, documents, information and specifications of the machine have been provided and the product is working properly.

IMPORTANT NOTES:

IF THE ABOVEMENTIONED POINTS ARE NOT FULFILLED, THE WARRANTY CLAIM IS EXCLUDED:

The warranty is only valid in conjunction with compliance and evidence of proper assembly, handover, and if necessary training, as well as yearly maintenance carried out by an expert authorised by the manufacturer. The interval between services must not exceed 12 months. In case of non-standard use or multi-shift or seasonal use, a bi-annual inspection and maintenance must be arranged.

Warranty claims are only recognised if all points in the log and operating instructions have been met, the claim is asserted immediately after detection and **this log is sent to the manufacturer along with the maintenance and service logs**.

Further specific information about the warranty, such as scope, requirements and specifications, are described in the operating instructions and must be observed.

Damages and complaints caused by improper handling; failure to maintain and service; use of unsuitable or unspecified assembly, operating, maintenance or service products; mechanical damage; intervening in the unit without consultation or by an unauthorised expert are excluded from the warranty. For systems that have not been installed by an authorised expert, the warranty is limited by agreement of the manufacturer to the provision of the necessary spare parts.

Expert name and company stamp if necessary, number and name of retailer	Date and expert signature
Operator name and company stamp	Date and operator signature

8.2 Inspection Plan

Nameplate				
Quick reference guide				
Operating instructions				
Safety label				
Operation label				
Other labels				
Construction (deformation, cracks)				
Fixing dowels and stability				
Condition of concrete flor (cracks)				
Condition / general condition				
Condition / cleanliness				
Condition / care and sealing				
Condition / liquids				
Condition / lubrication				
Condition / aggregate				
Condition / drive				
Condition / motor				
Condition / transmission				
Condition / cylinder				
Condition / valve				
Condition / electrical control				
Condition / electric buttons				
Condition / electric switches				
Condition / electric lines				
Condition / hydraulic lines				
Condition / hydraulic screws				
Condition / pneumatic lines				
Condition / pneumatic screws				
Condition / tightness				
Condition / bolts and bearings				
Condition / consumables				
Condition / covers				
Condition / functions under load				
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 Visual inspection (authorised expert)

Inspection Certificate

relating to a regular / extraordinary inspection / audit *)

The device has undergone a readiness test.
No / the following *) defects were found:

_____

_____

_____

_____

_____

Inspection contents: functional and visual inspection according to specifications
Pending partial inspection:

_____

_____

There were no *) concerns arising from commissioning, an audit is not *) required.

_____ _____

(Place, date) (Technical expert signature)

Confirmation of acceptance:

(Name of technical expert)

(Title)

(Address)

(Employed at)

_____

Operator (company stamp, date, signature)

Faults noted **) _____

Faults remedied **) _____

*) Delete if not applicable
**) Confirmation of operator or a representative with date and signature

Visual inspection (authorised expert)

Inspection Certificate

relating to a regular / extraordinary inspection / audit *)

The device has undergone a readiness test.
No / the following *) defects were found:

_____

_____

_____

_____

_____

Inspection contents: functional and visual inspection according to specifications
Pending partial inspection:

_____

_____

There were no *) concerns arising from commissioning, an audit is not *) required.

_____ _____

(Place, date) (Technical expert signature)

Confirmation of acceptance:

(Name of technical expert)

(Title)

(Address)

(Employed at)

_____

Operator (company stamp, date, signature)

Faults noted **) _____

Faults remedied **) _____

*) Delete if not applicable
**) Confirmation of operator or a representative with date and signature

Visual inspection (authorised expert)

Inspection Certificate

relating to a regular / extraordinary inspection / audit *)

The device has undergone a readiness test.
No / the following *) defects were found:

_____

_____

_____

_____

_____

Inspection contents: functional and visual inspection according to specifications
Pending partial inspection:

_____

_____

There were no *) concerns arising from commissioning, an audit is not *) required.

_____ _____

(Place, date) (Technical expert signature)

Confirmation of acceptance:

_____

(Name of technical expert)

_____

(Title)

_____

(Address)

_____

(Employed at)

_____

Operator (company stamp, date, signature)

Faults noted **) _____

Faults remedied **) _____

*) Delete if not applicable
**) Confirmation of operator or a representative with date and signature

Visual inspection (authorised expert)

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_____

_____

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Inspection contents: functional and visual inspection according to specifications
Pending partial inspection:

_____

_____

There were no *) concerns arising from commissioning, an audit is not *) required.

_____ _____

(Place, date) (Technical expert signature)

Confirmation of acceptance:

(Name of technical expert)

(Title)

(Address)

(Employed at)

_____

Operator (company stamp, date, signature)

Faults noted **) _____

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9.0 NOTES