



ATH-Heinl

User's manual 2 post lifts

ATH	Comfort Lift 2.30 a/s	2.35 a/s	2.40 a/s
ATH	Comfort Lift 2.30L a/s	2.35L a/s	2.40L a/s
ATH	Comfort Lift 2.30X a/s	2.35X a/s	2.40X a/s
ATH	Comfort Lift 2.50 a/s		
ATH	Comfort Lift 2.50X a/s		



4500 kg

INHALT

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INTRODUCTION

General Information

**THE USER OF THE LIFT HAVE TO READ AND UNDERSTOOD THESE MANUAL .
ALL LIABILITY IS EXCLUDED FOR DAMAGES WHICH RESULT FROM NON-COMPLIANCE OF THESE INSTRUCTIONS
WE WILL NOT ASSUME ANY LIABILITY CAUSED BY NON-COMPLIANCE WITH SAFETY NOTICES.**



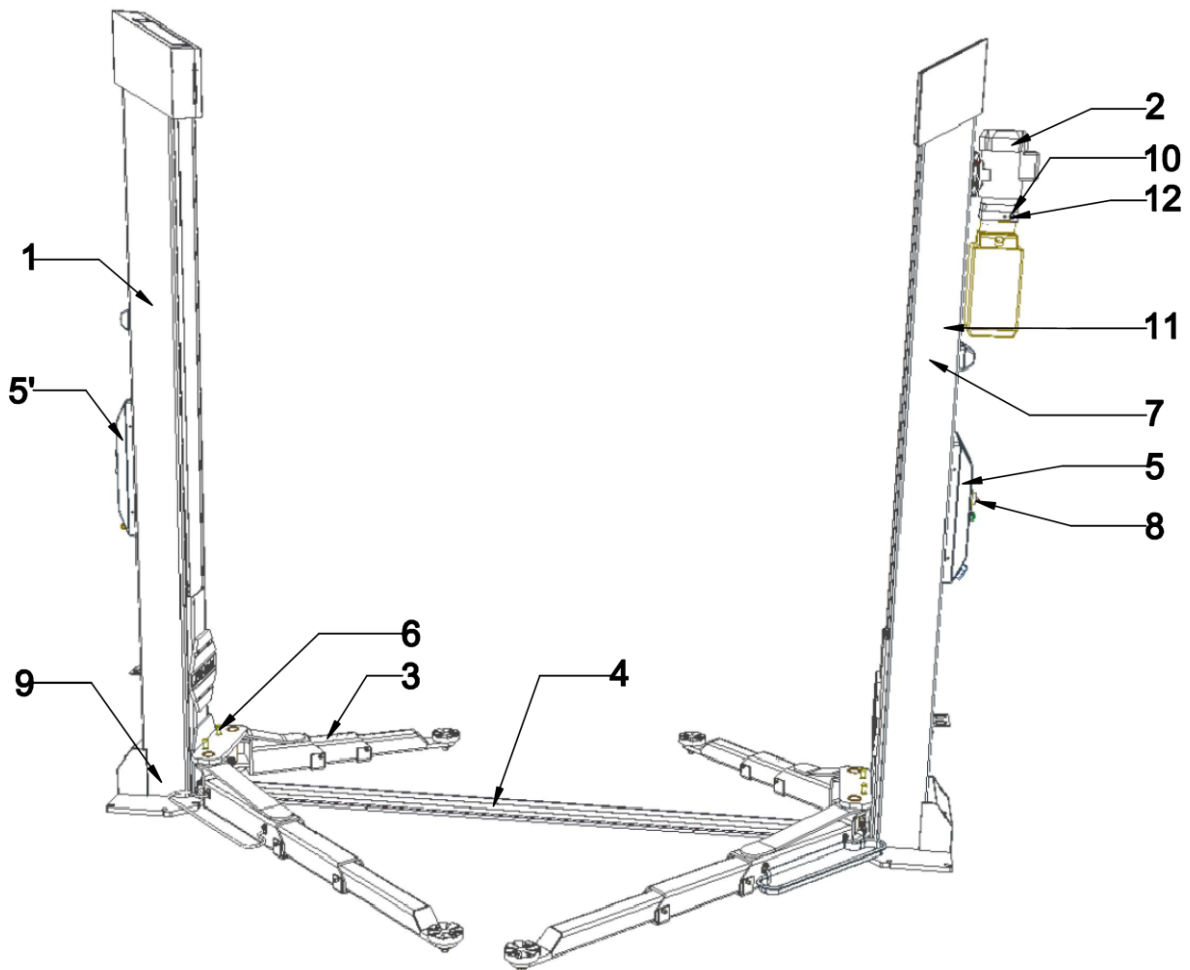
Note: Follow the instructions to prevent personal injury or damage



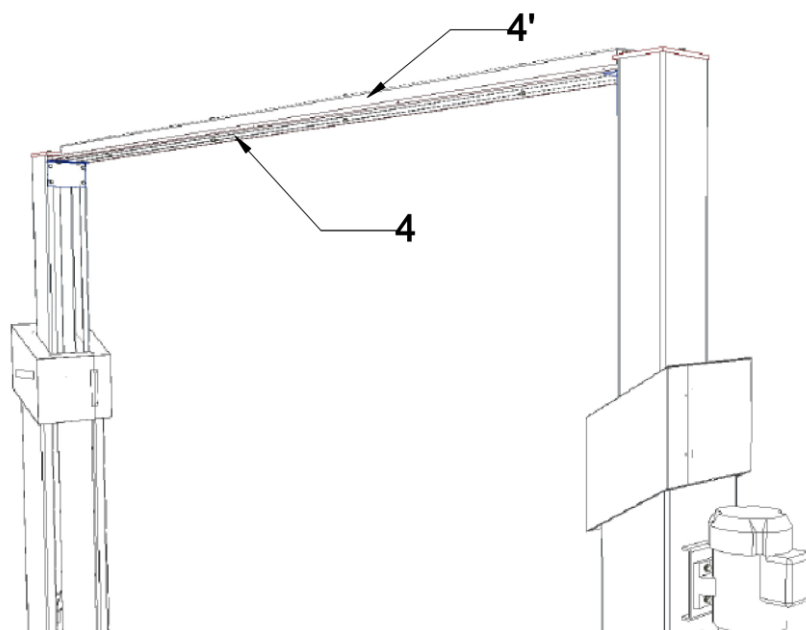
TIP: Gives additional information on features and tips for efficiently using of the device.

Description of the 2 post lift

ATH-Comfort Lift 2.XX a/s version :



ATH-Comfort Lift 2.XX_L & 2.XX_X a/s version :



Main components

1. Pillars
The inside lifting-carriage is lifted by hydraulic cylinder due a chain to the top.
2. Hydraulic-Aggregate
The hydraulic oil is pumped to the hydraulic cylinders by a gear wheel pump actuated by an electrical motor. Over a lowering valve the hydraulic oil will be returned in the oil tank..
3. Lifting arms
Due the lifting arms the cars could be lifted.

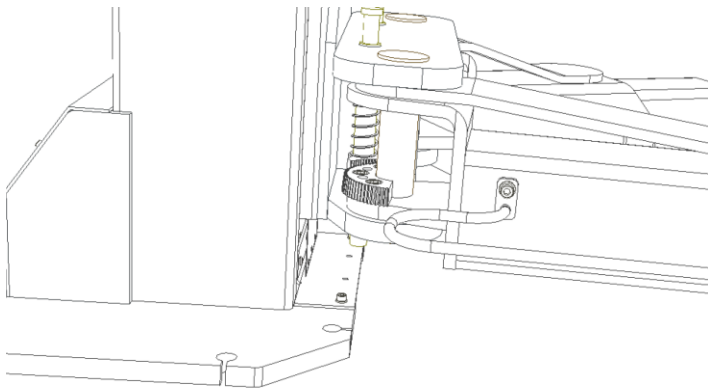
4a. Cross beam ATH-Comfort Lift 2.XX a/s) Over driving metallic cover protects the synchronization ropes and the hydraulic hose

4b. Cross beam
(ATH-Comfort Lift 2.XX_L& 2.XX_X a/s)
4b'. Reinforcing profile for Cross beam

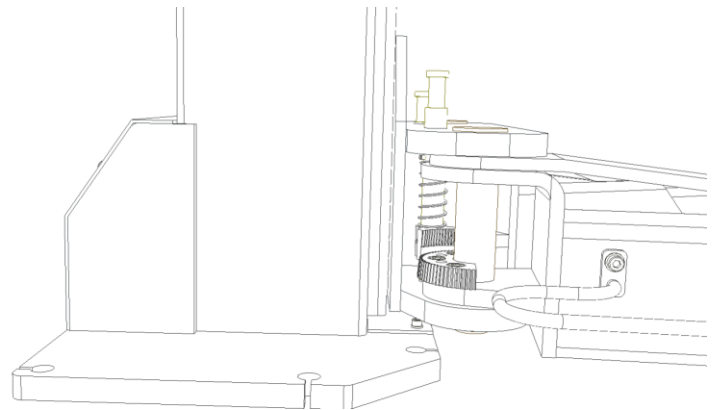
Safety devices

5. Control box from the main column equipped with Deadman's Type Controls
Includes the complete electrical control system. All the push buttons are protected by a front ring and the operator is required to hold the controls in the engaged position to rise or lower the lift in case of releasing operation is immediately interrupted.
- 5'. Control box from the opposite column
6. Automatic Arm Restraint
To prevent swinging motions of arms when vehicle is on lift when the carriage is rising up.

Locked position of the lifting arms:

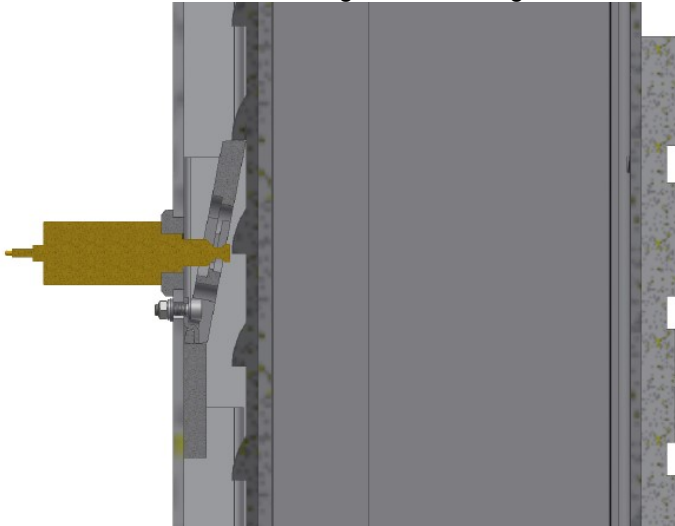


Unlocked position of the lifting arms:

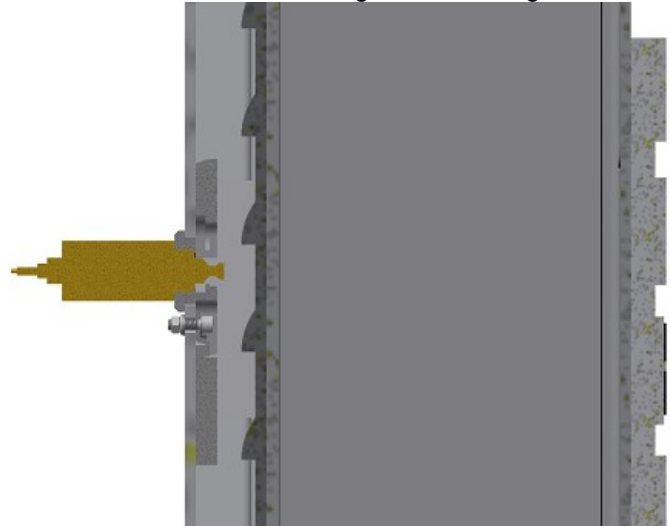


7. Locking safety notch,
This safety device prevents by any deficiency a lowering of the carriage by more than 100mm.
The electromagnets unlock the device every time, when the lowering and lifting are carried out.

Position bei verriegeltem Hubwagen:



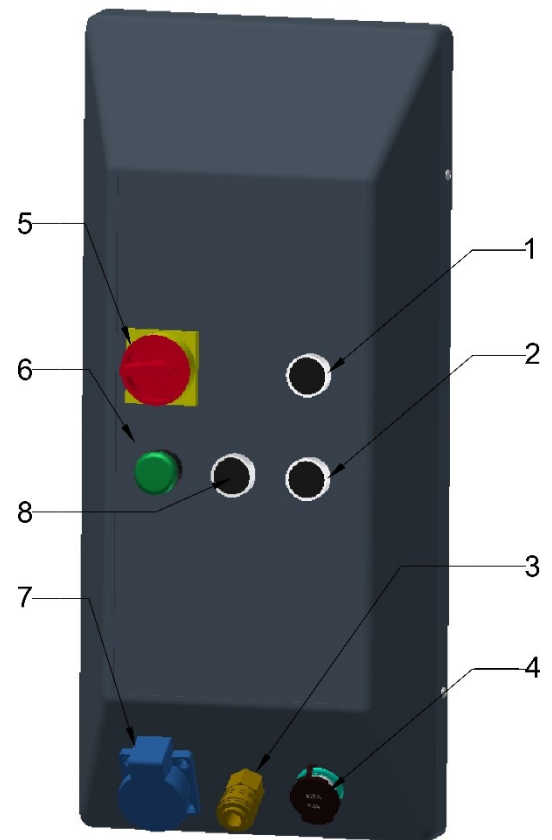
Position bei entriegeltem Hubwagen:



8. Main Switch
9. Excess flow cut-off valve,
In case of hydraulic hose rupture, it automatically interments and thereby blocks the movements of the lift.
10. Pressure control valve,
Prevents the exceeding of the payload. Verhindert ein Überschreiten der Traglast.
THIS SETTING MAY NOT BE CHANGED!
11. Synchronization ropes,
grants a synchronous movement of the both carriages.
12. Emergency descent screw,
makes possible a lowering of the carriages of the lift by defective working.

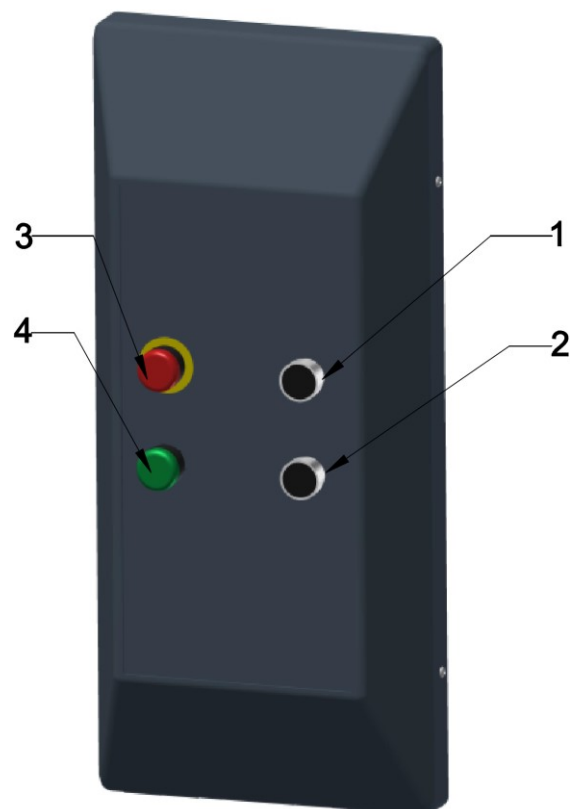
Bedienung Hauptsäule

1. Push button lifting (Up), lifts the carriages
2. Push button lowering (Down), lowers the carriages complete (the safety notch and the lowering valve will be activated)
3. ESK-Air Socket
4. 12-volt vehicle socket
5. Lockable main switch with emergency stop function, prevents switch on / off of the power of the lift from any unauthorized persons
6. Signal lamp, indicates whether that the lift is in stand-by.
7. Socket Outlet 1 X 230V
8. Push button parking (Lock up), parks (locks) the carriage (just the lowering valve will be activated)



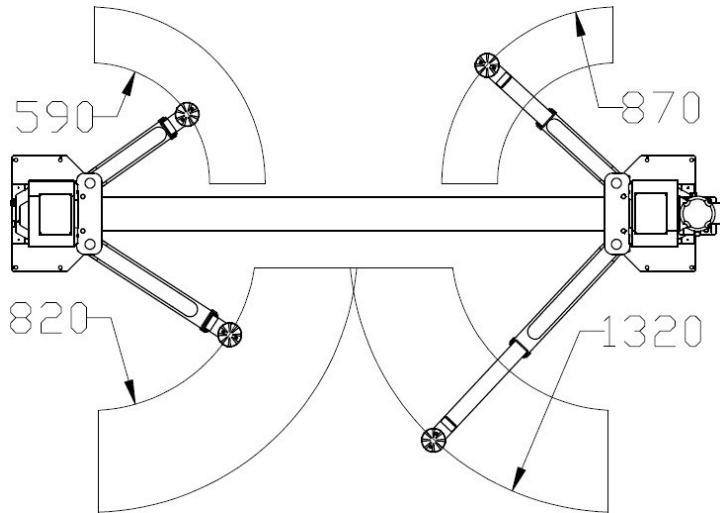
Nebensäule

1. Push button lifting (Up), lifts the carriages
2. Push button lowering (Down), lowers the carriages complete
3. EMERGENCY STOP Switch to switch off the lift in case of emergency
4. Signal lamp, indicates whether that the lift is in stand-by.

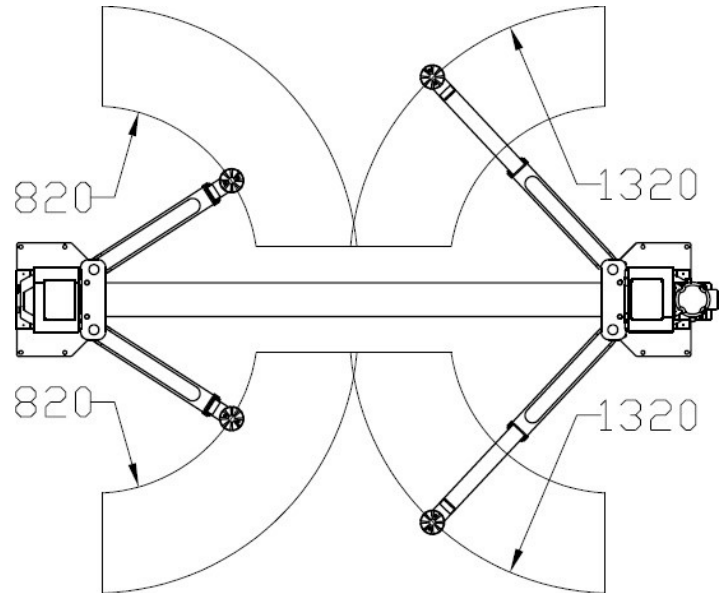


Technical Data (a=asymetric/ s=symetric)

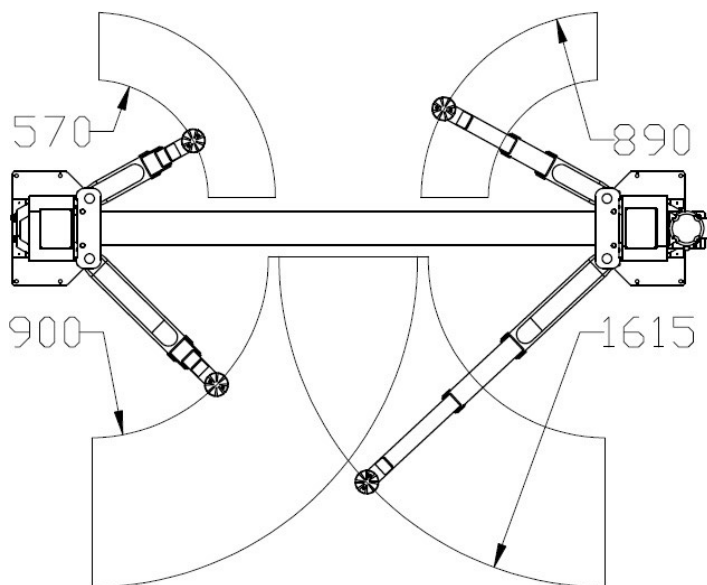
2.30 a



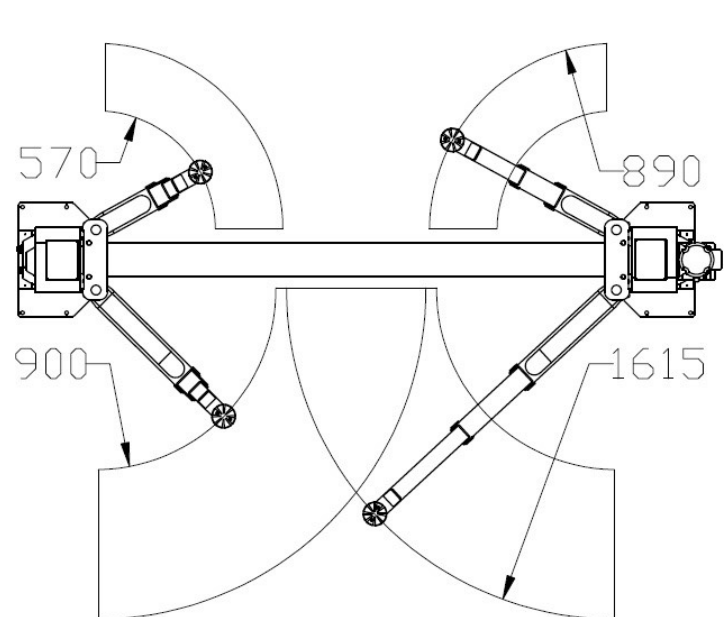
2.30



2.35 a

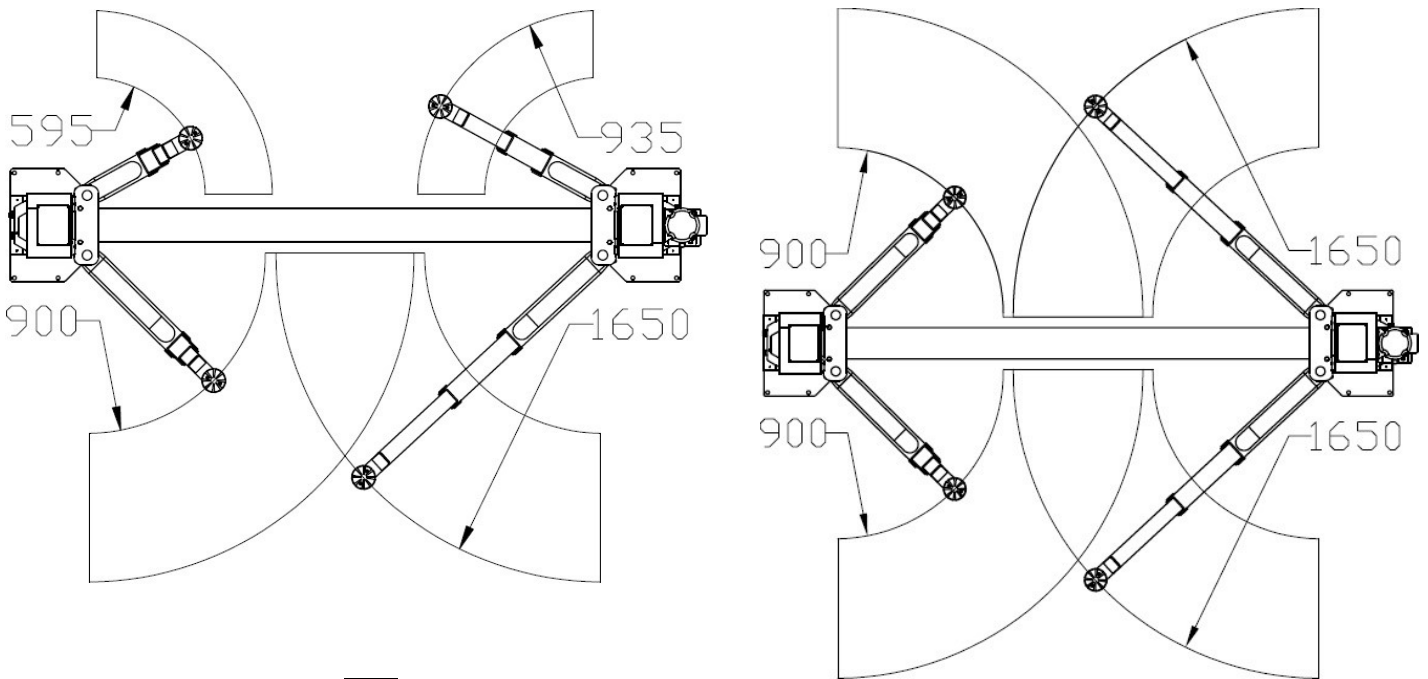


2.35 s



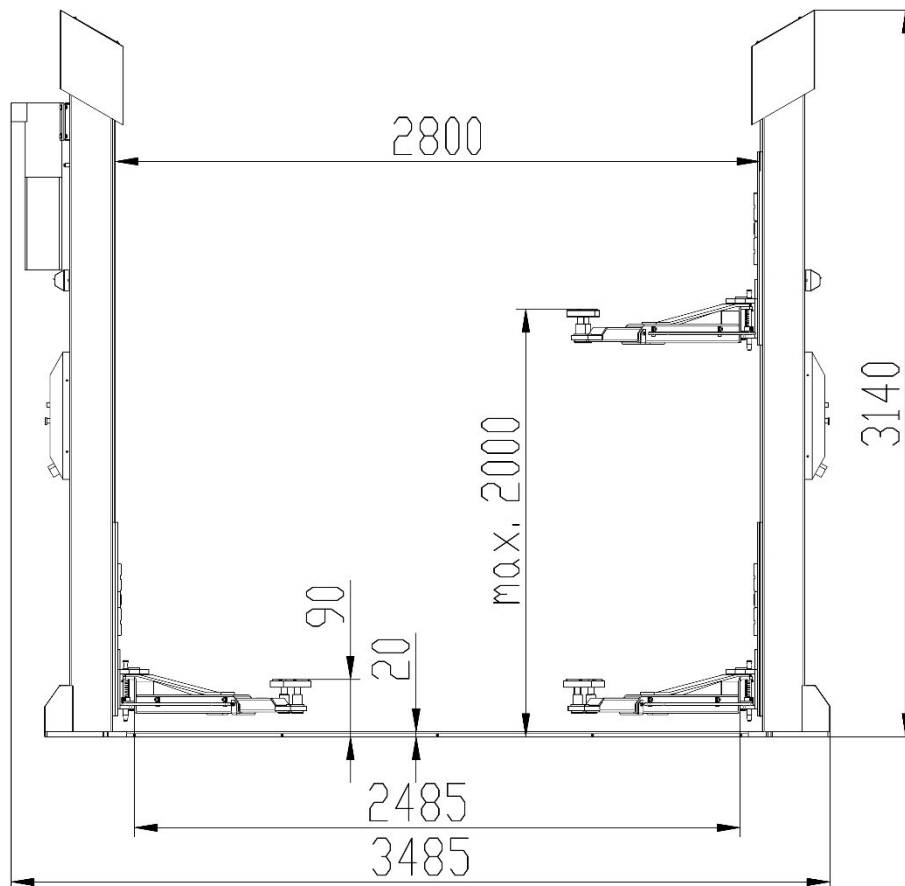
2.40 a

2.40 s



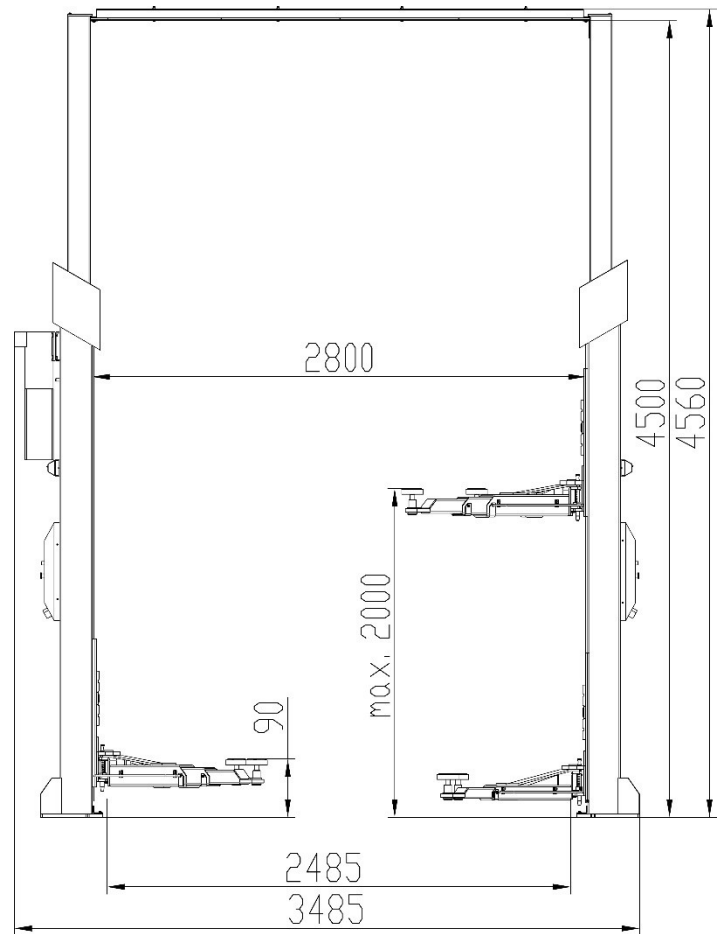
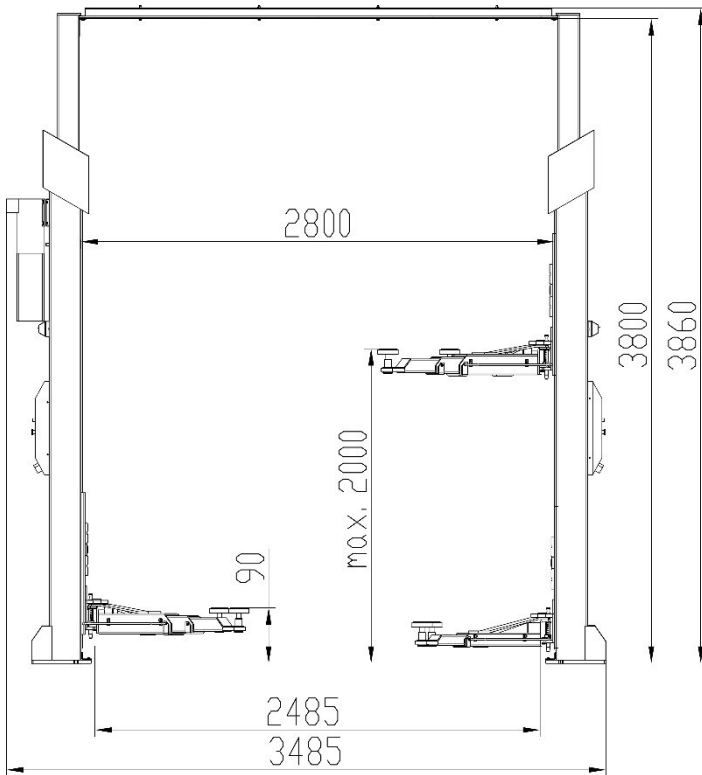
 The given Lifting arms combinations may not be changed.

ATH-Comfort 2.30 a/s, 2.35a/s, 2.40a/s -Version

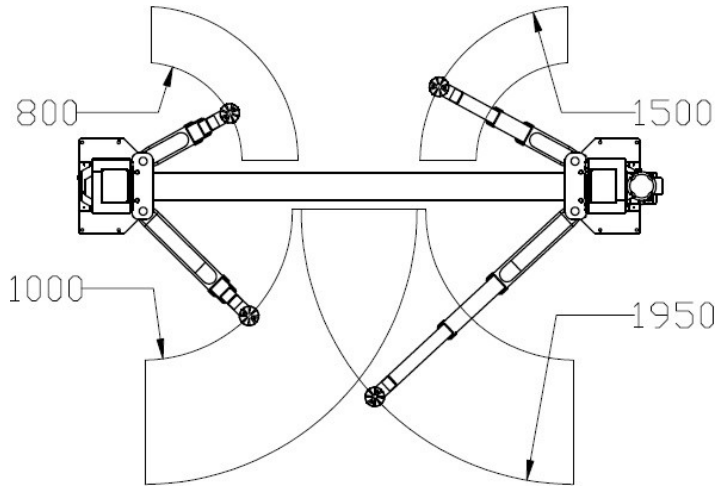


ATH-Comfort 2.30L a/s, 2.35L a/s, 2.40L a/s -Version

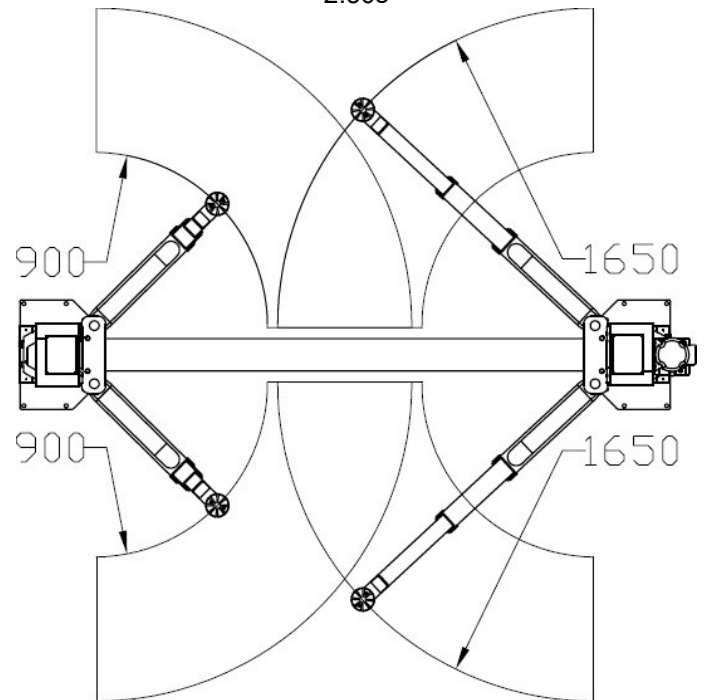
ATH-Comfort 2.30X a/s, 2.35X a/s, 2.40X a/s -Version



2.50a



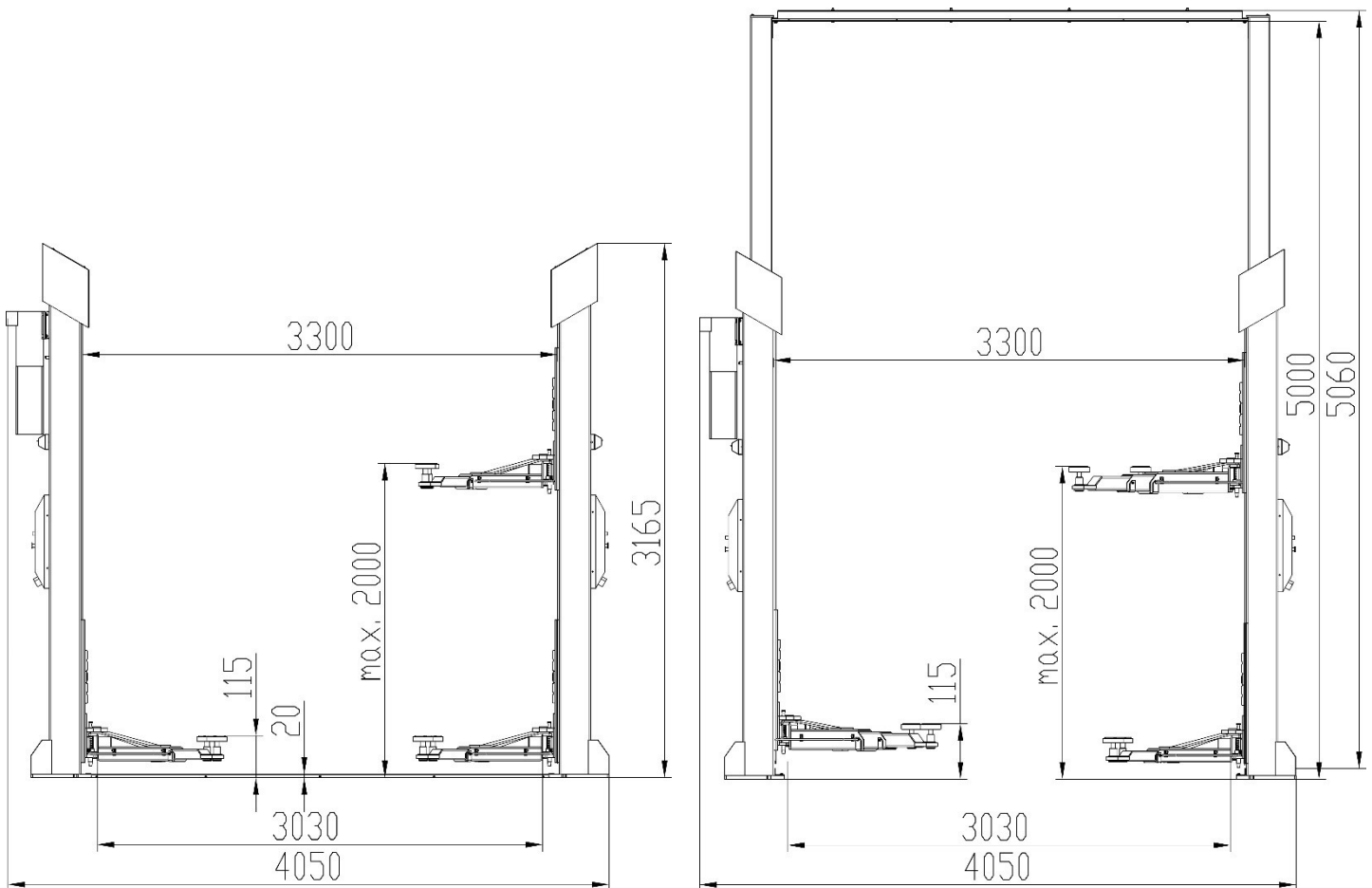
2.50s



 **The given Lifting arms combinations may not be changed..**


ATH-Comfort Lift 2.50:

ATH-Comfort Lift 2.50X:

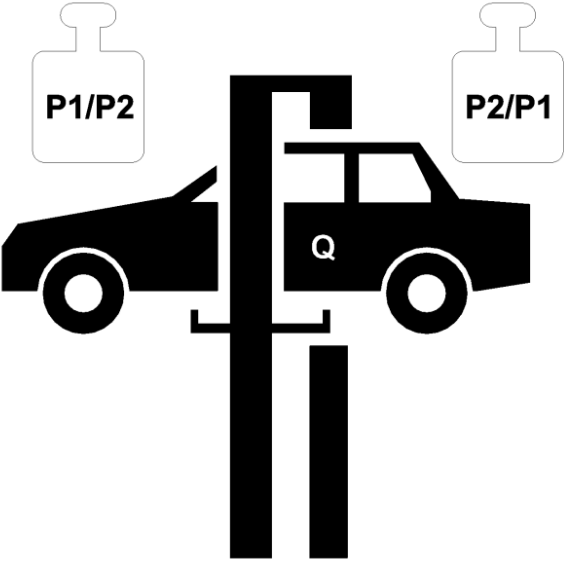
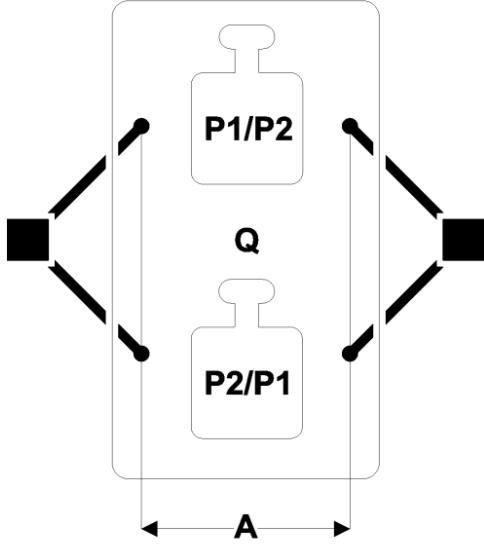



Type	2.30 a/s	2.35 a/s	2.40 a/s	2.50 a/s
Tragfähigkeit	3.000Kg	3.500Kg	4.000Kg	5.000Kg
Max. Capacity	39s		I	50s
Lowering time (by 2.000 kg)	36s			
Elektrosystem	3/400V/50Hz			
Control voltage	DC24V			
Motor	3,0 KW			
Fuse Protection	3 C 16 A			
Power cable	Min. 5 x 1,5mm ²			
Protection class	IP 43			

Hydraulic pressure ²	125 -145 bar			
Recommended hydraulic oil	Sommer: H-LPD 32 (z.B.: OEST H-LPD 32 DD L) Winter: H-LPD 22			
Oil quantity	ca.10l		Ca. 14l	
Floor anchoring	Verbundanker: M16 x 190 (z.B.: Atrion AVA-W 16-045-190)			
Anchors quantity	12 X			
Noise level	84 dB			
ATH-Comfort 2.XX a/s, -Version	x	x	x	x
ATH-Comfort 2.XX L a/s, -Version	x	x	x	x
ATH-Comfort 2.XX X a/s, -Version	x	x	x	x

- ²  **The already factory-set hydraulic work pressure is adjusted to the maximum rating. The setting of the pressure control valve may not be changed. Any changes to the settings could cause serious damages. If the nominal load could be not lifted please contact our service team.**

Traglastverteilung

	<p>Q</p>	<p>Vehicle weight</p>
	<p>P1</p>	<p>Max $2/5 \times Q$</p>
	<p>P2</p>	<p>Max $3/5 \times Q$</p>
	<p>Load distribution</p>	<p>$2/3$</p>
	<p>A</p>	<p>Min. 1.000 mm^2</p>

²  By smaller distances the load capacity will be reduced. In such and other cases, In this case or in other cases not covered by this manual, the manufacturer should be contacted.

Scope of delivery

		Maße	Gewicht
1	Basis Package with: <ul style="list-style-type: none"> • Main post with hydraulic aggregate and control unit • Opposite post • Cross beam with hydraulic hose • User's manual and the checking book • Accessories box with small parts 	Bei 2.30 / 2.35 / 2.40:	
		3000 x 960 x 590mm	490 kg
		Bei 2.50:	
		3000 x 1020 x 650 mm	
2	2.30- Package with: <ul style="list-style-type: none"> • 2x 2-stages short lifting arms • 2x 2-stages long lifting arms • 4x Mounting bolts • 4 lifting pads 	740 x 300 x 230; 960 x 300 X 230;	98kg
	2.35a- Package with: <ul style="list-style-type: none"> • 2x 3- stages short lifting arms • 2x 3- stages long lifting arms • 4x Mounting bolts • 4 lifting pads 	700 x 300 x 230mm; 1030 x 300 x 230mm	44kg 74kg
	2.35s-- Package with: <ul style="list-style-type: none"> • 4x 3- stages long lifting arms • 4x Mounting bolts • 4 lifting pads 	(2x) 1030 x 300 x 230mm	(2x) 74kg
	2.40a- Package with: <ul style="list-style-type: none"> • 2x 3- stages short reinforced lifting arms • 2x 3- stages long reinforced lifting arms • 4x Mounting bolts • 4 lifting pads 	760 x 300 x 260mm; 1060 x 300 x 260mm	60kg 95kg
	2.40s- Package with: <ul style="list-style-type: none"> • 5x 3- stages long reinforced lifting arms • 4x Mounting bolts • 4 lifting pads 	(2x) 1060 x 300 x 260mm	(2x) 95kg
	2.50- Package with: <ul style="list-style-type: none"> • 2x 3- stages short lifting arms • 2x 3- stages long lifting arms • 4x Mounting bolts • 4 lifting pads 	960 x 340 x 290mm 1160 x 340 x 290mm	106kg 136kg
	2.50 L- Package with: <ul style="list-style-type: none"> • 4x 3- stages long lifting arms • 4x Mounting bolts • 4 lifting pads 	(2x) 1160 x 340 x 290mm	(2x) 136kg
	3	H3-Box <ul style="list-style-type: none"> • 2x Synchronization ropes • 2x Cover band with mounting brackets • 2x Post's caps • Fixing parts 	Bei 2.30 / 2.35 / 2.40:
660 x 300 x 590mm			35kg
Bei 2.50:			
900 x 640 x 430mm			

L-Box <ul style="list-style-type: none"> • 2x Synchronization ropes • 2x Cover band with mounting brackets • 2x Post's caps • Fixing parts • 2x Posts' extensions • 1x Short hydraulic hose • 1x Long hydraulic hose 	940 x 320 x 600 mm	88kg
X-Box <ul style="list-style-type: none"> • 2x Synchronization ropes • 2x Cover band with mounting brackets • 2x Post's caps • Fixing parts • 2x Posts' extensions • 1x Short hydraulic hose • 1x Long hydraulic hose 	Bei 2.30 / 2.35 / 2.40:	
	1640 x 320 x 600mm	125kg
	Bei 2.50:	
	2300 x 520 x 660mm	



If anything is missing in the delivery please contact our sales department!

Transportation and storage:

- Lift with care, using suitable means of support for the load, in perfect working order and using the special hooking points.
- Avoid sudden jolts and tugs, watch out for uneven surfaces, bumps etc.
- After removing the various packing, check that they are taken to special waste collecting areas inaccessible to children and animals where they will be disposed of.
- Warehouse-Temperature: -25°C ~ +55 °C

Optional:

4 lifting pad extensions, 2 supports for lifting pad extensions

Max. inclination	13mm
Concrete drying time:	Min. 20 Days



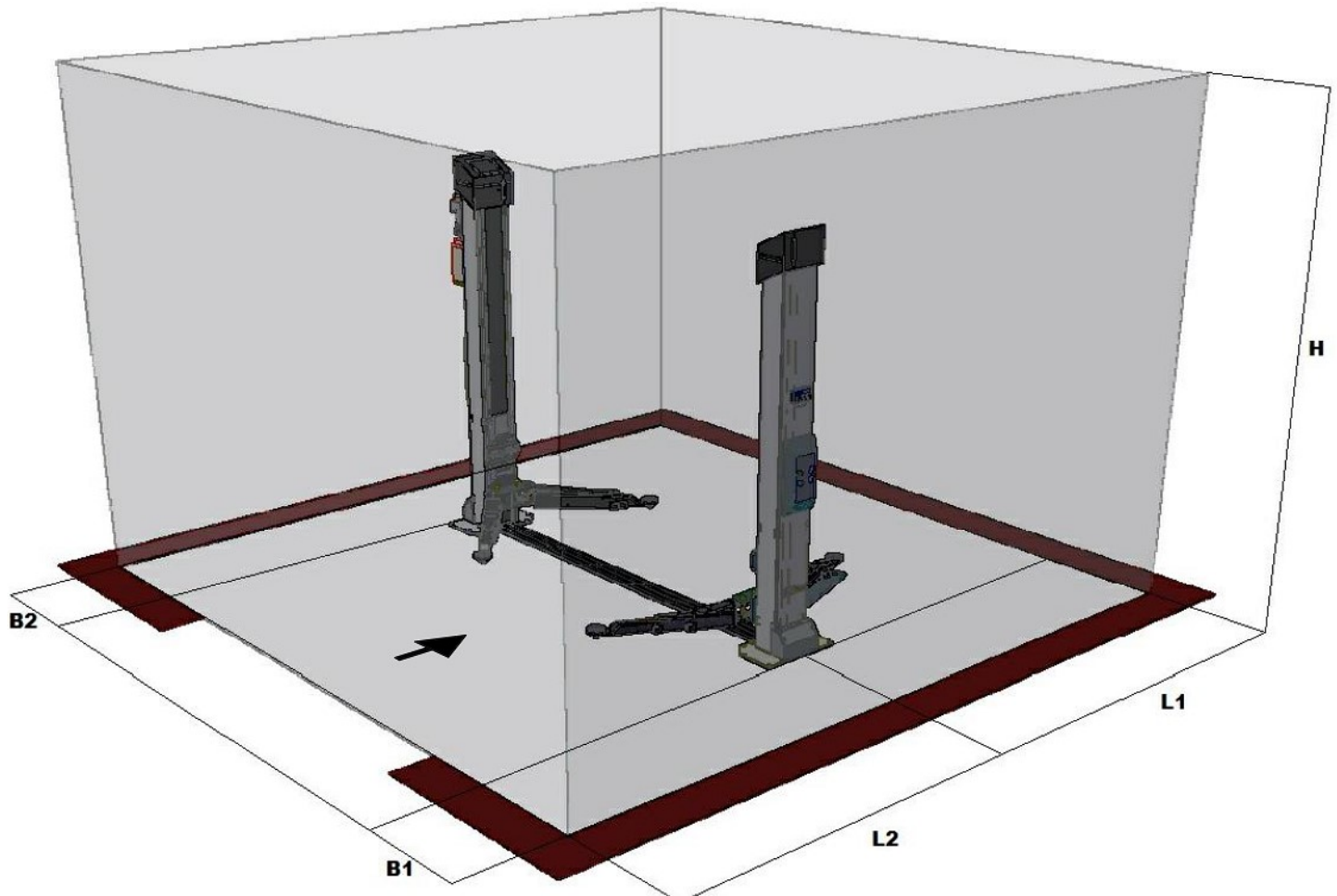
If soils do not comply with the requirements, there could evoke serious injuries to personal or damages to the lift.

Do not install the lift on asphalt, soft concrete floor-

There must be no expansion joints or cuts, which will break the continuity of the upper reinforcement.

Load-capacity of false ceilings must be checked by operator.

Place of installation



B1	Distance main post-wall	Min. 1.000mm	B2	Distance opposite post-wall	Min. 700 mm
L1	Distance post-wall	Min. 3200mm	L2	Distance post-wall	Min. 3200mm
H	Celling weight	Check the technical data			
Permitted operating temperatures:			10-50 °C		
Maximum permitted humidity:			≤80% By 30 °C		
Low height above the sea level:			≤2000m		
Power connection and ground cable (see technical data) it could be in form of plug connector (socket and plug device) or fixed connection.					
Necessary supply lines			See technical data		



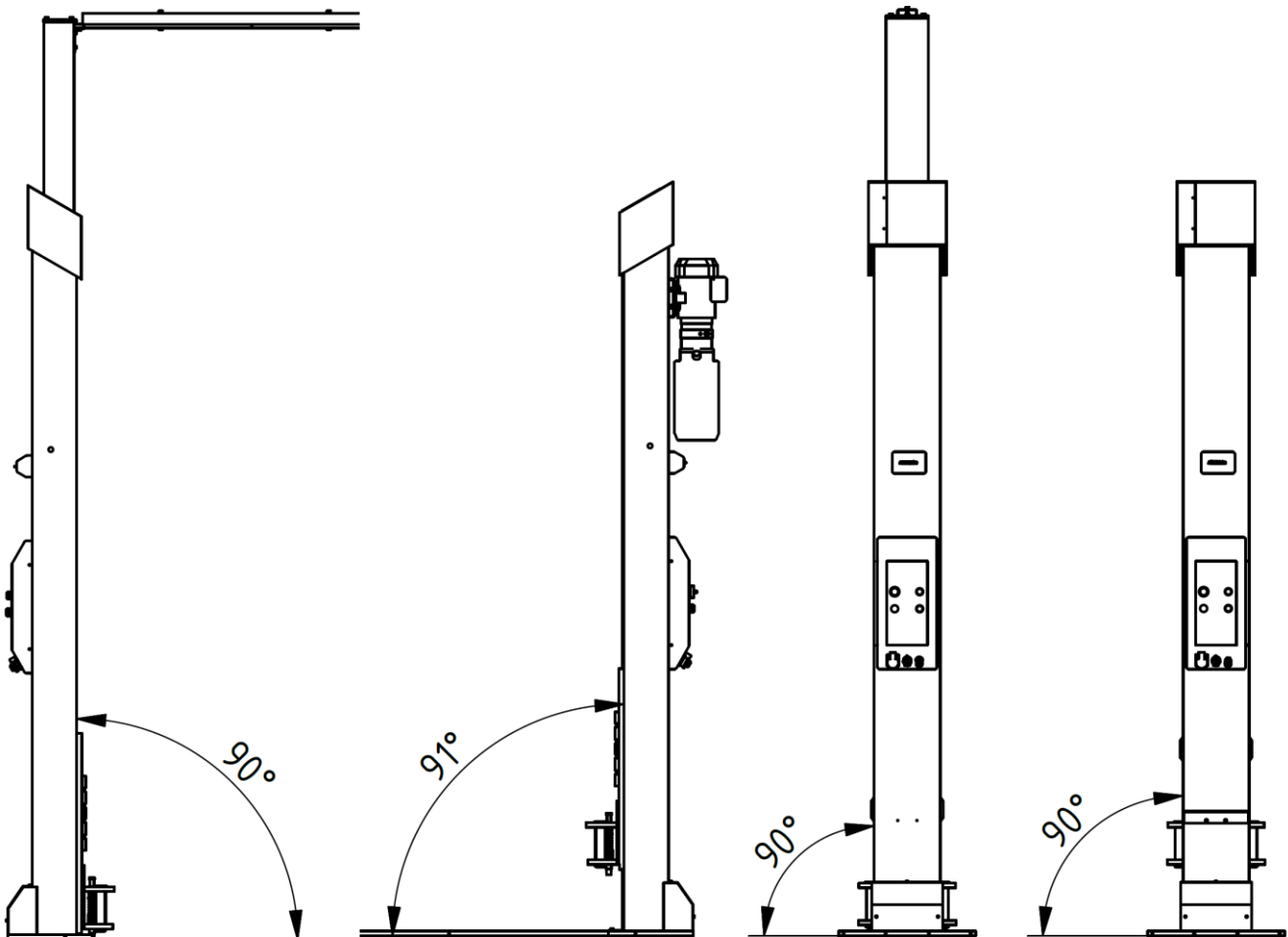
The lift is designed for installation in dry rooms. The installation in wet rooms as well as rooms with a risk of explosion is not allowed.

Installing of the lift

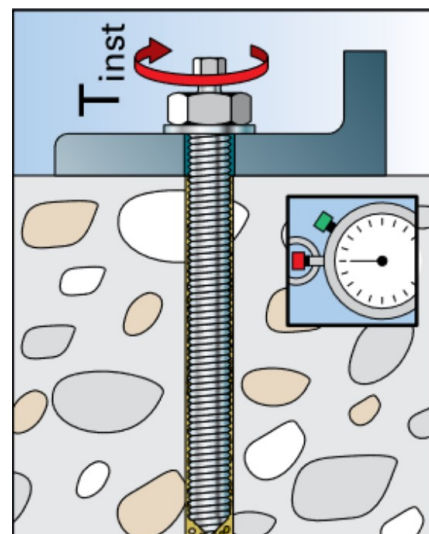
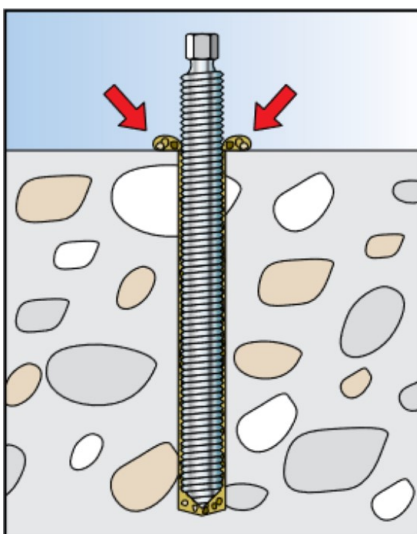
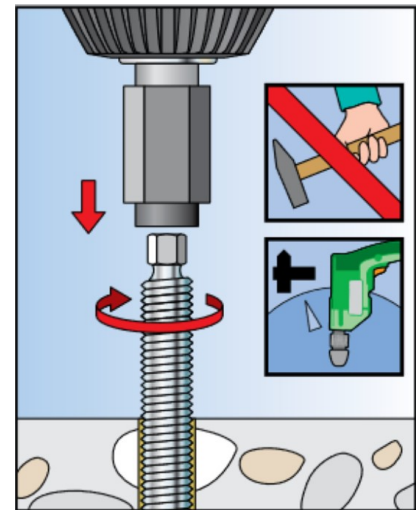
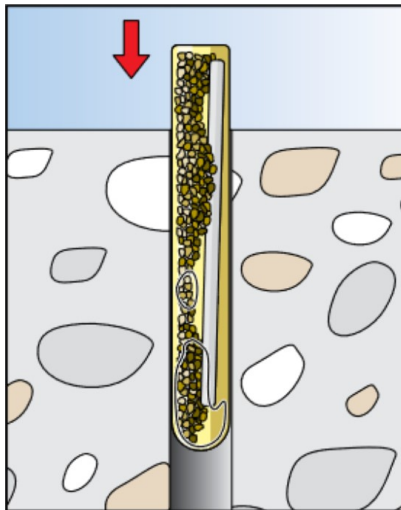
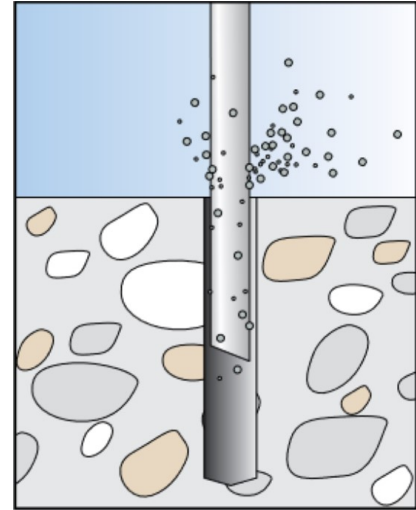
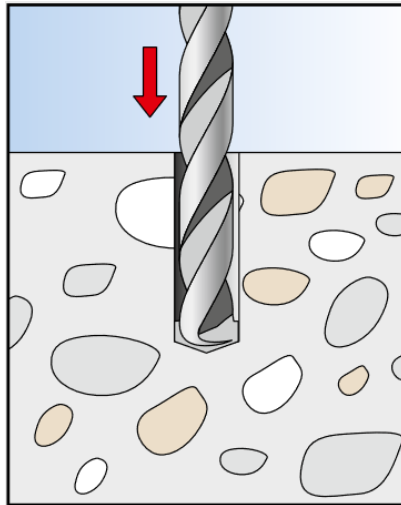


This manual is not be seen as assembly instruction, there is giving here only for skilled personal hints and help. For the following works there are necessary the adequate clothes and safety equipments. An incorrect installation and adjustments causes disclaimer of warranty.

1. Aufstellen und Ausrichten der Säulen
 - a. By the L-Version and X-Version the post extensions have to be already mounted
 - b. After setting up the posts the distance between the post have to be checked by attaching of the cross beam before dowelling.
 - c. Before fixing with the anchors bots ensure that the both posts are aligned in both directions as indicated bellow, if necessary align them with washers or shim plates.

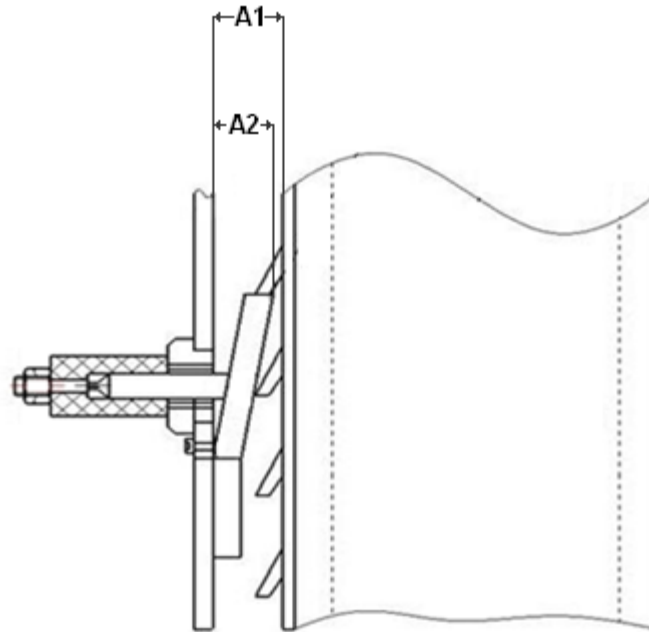


2. Anchoring with the safety dowels:



3. Installation & Setting of the locking catches

- a. Bring all the locking catches like in the following drawing.
- b. Make sure that the distance from the post to the lifting carriage (A1) and the distance between the post and the locked safety notch (A2) are the same, if necessary can be adjusted the nut of the electromagnet..



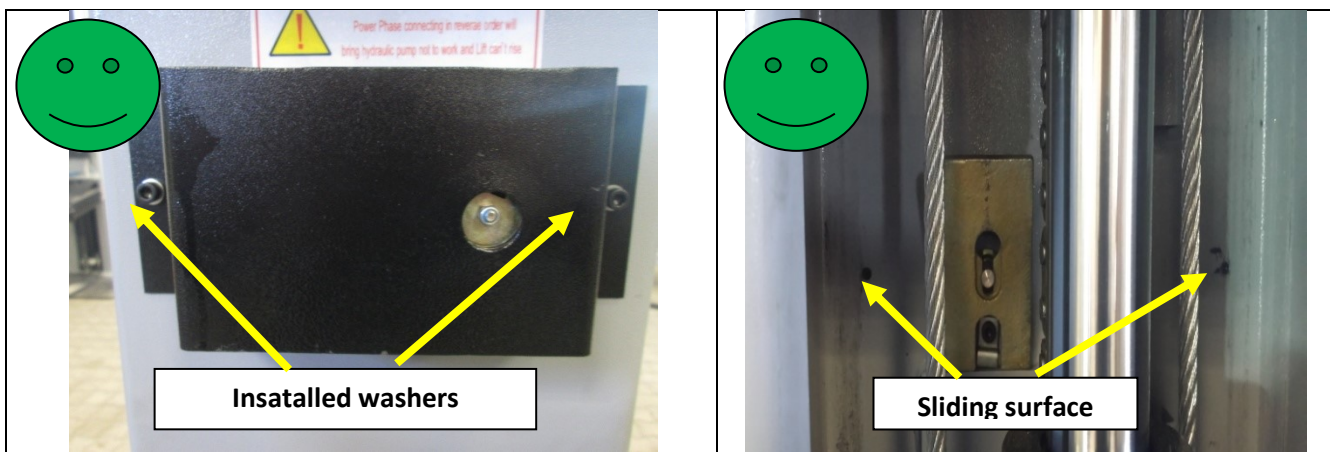
- c. Install the covers of the electromagnets.

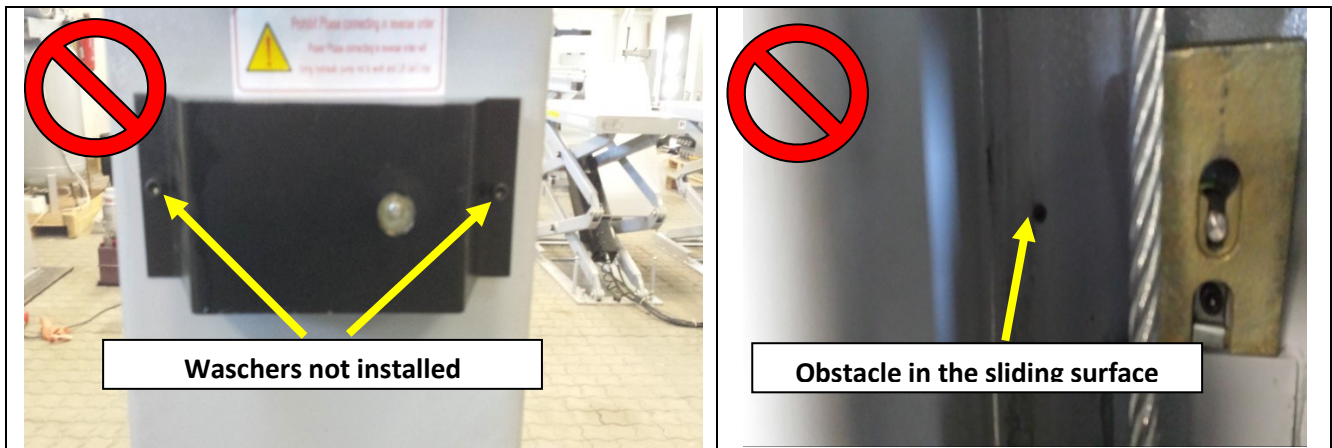


By installing of the covers for the electromagnets make sure that under the hexagonal head screws there are installed the washers (6,4mm).

It the washers are forgotten, the screws will impede the corect lifting and lowering operation and will protrude trough the columns.

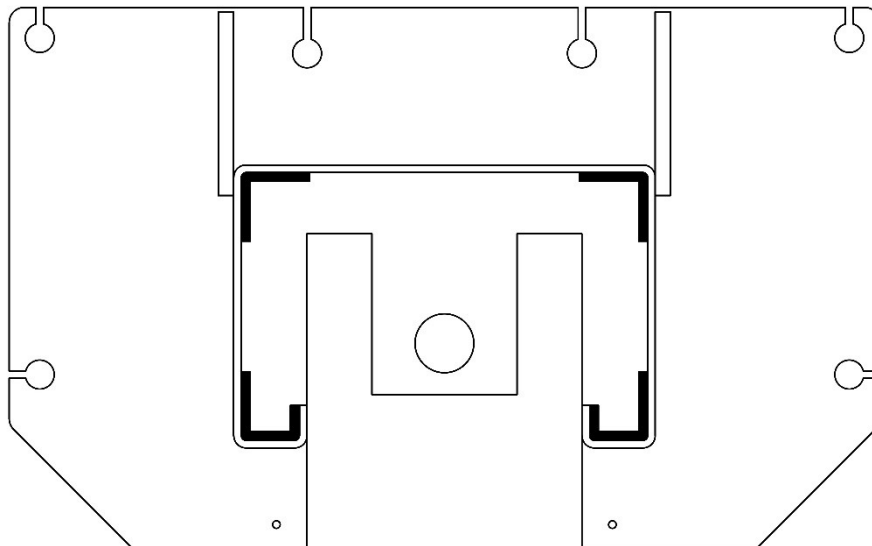
Aftr the installing, check the inner side of the columns for a smooth sliding surface . (see pictures)





4. Lubricate the slide ways of the posts

- a. Lubricate the slide ways of the posts like in the following drawing.
- b. The used grease will be found in the lubrication plan



5. The lifting carriages in the first safety notch (app. 500mm)

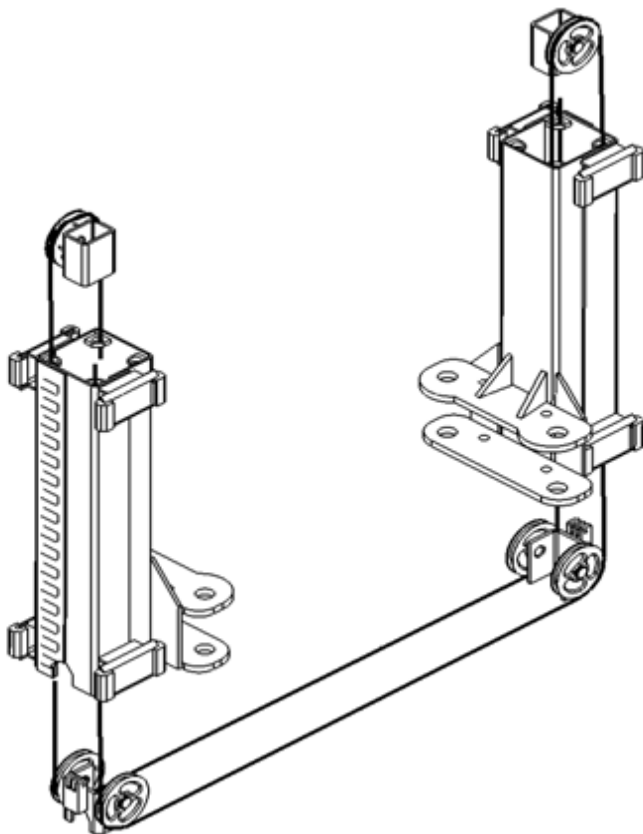
6. Installing of the synchronization ropes

- a. Bring the synchronization ropes over the pulleys
- b. Lubricate the bolts of the pulleys, as is specified in the lubrication schedule.
- c. Fit the pulleys and fix and **SECURE THEM WITH THE DELIVERED SEEGER RINGS**
- d. Install the synchronization ropes as shown in the next drawings.

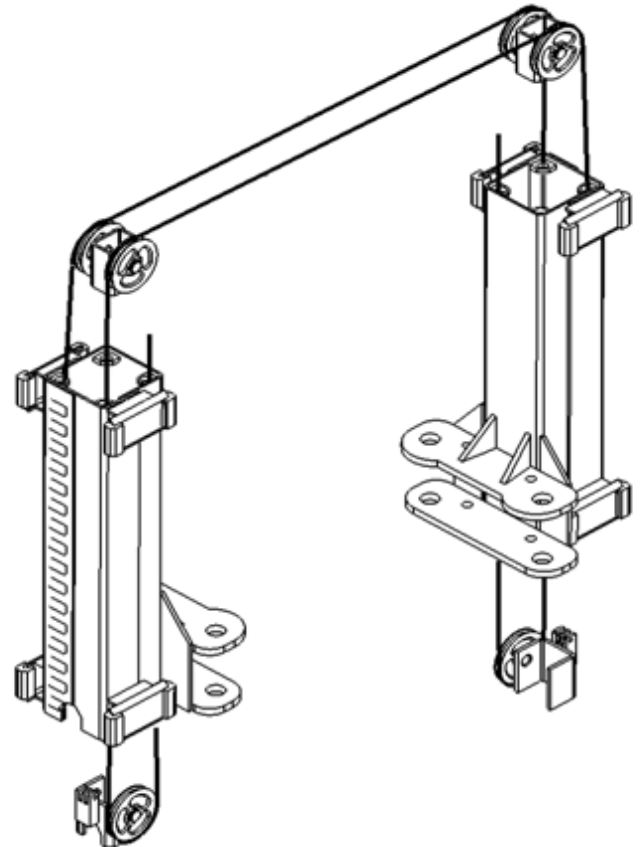


An adjustment of the synchronization ropes after a short operation time is eventually needed due to the material and does not mean that it is a warranty work but a maintenance work for which is the user responsible.

By H-Version



By L / X -Version



7. Installing of the hydraulic hose/hoses

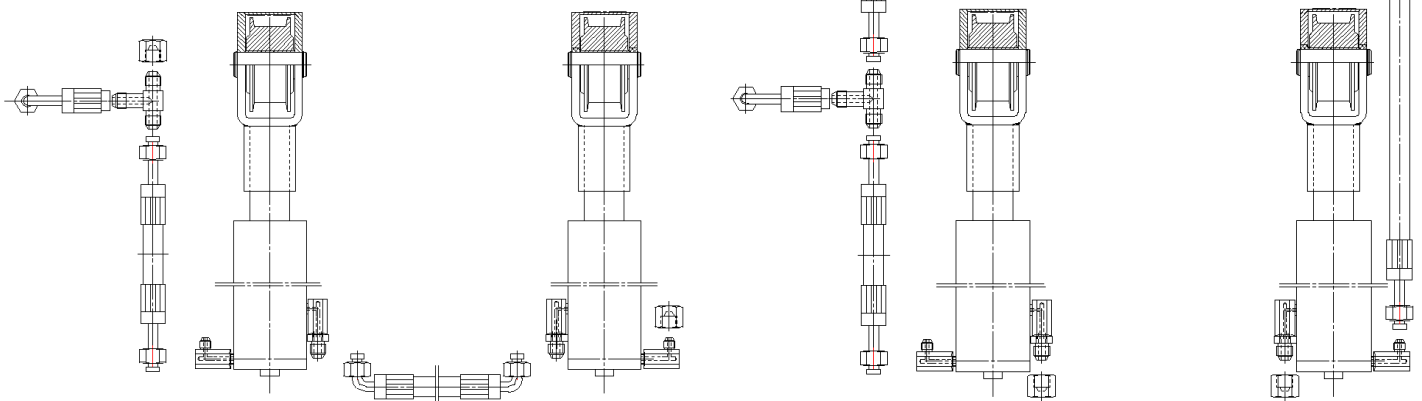
- a. The hydraulic hose/hoses will be installed like in the following drawing.



Check and if necessary tight all the hydraulic fitting connections

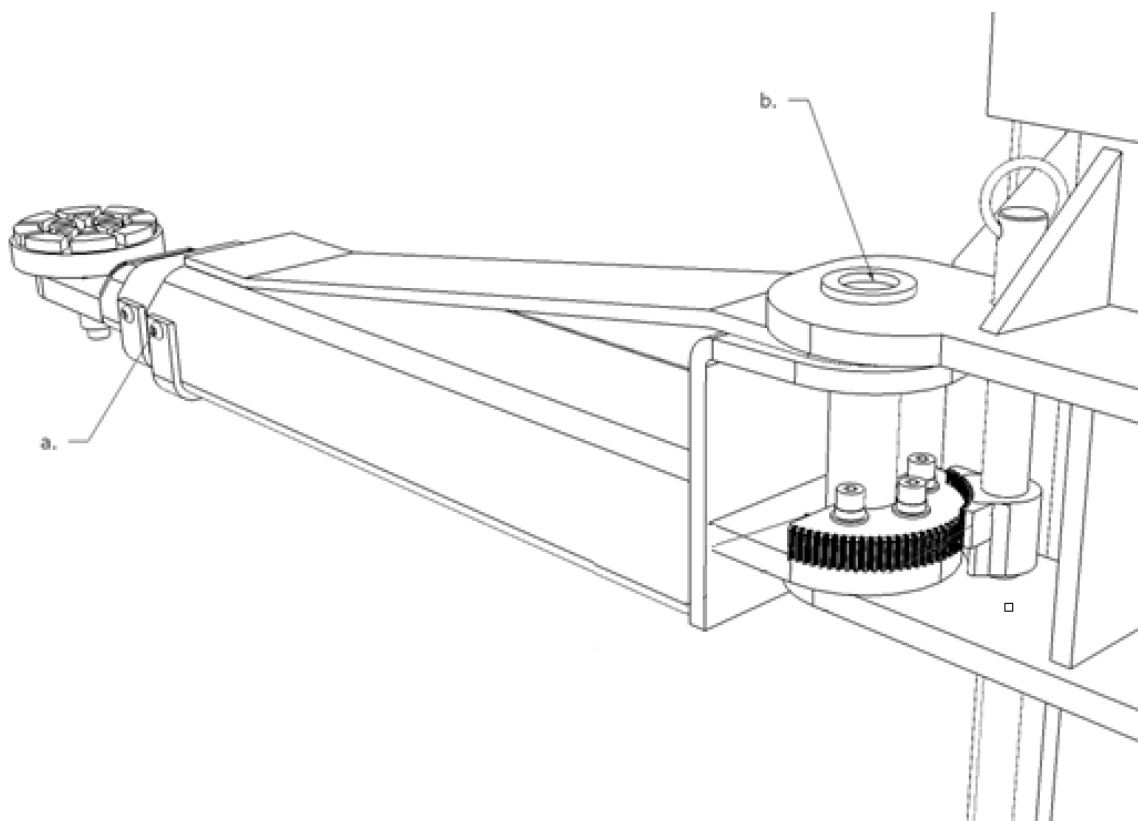
By ATH-Comfort Lift 2.XX_L& 2.XX_X a/s -Version

By ATH-Comfort Lift 2.XXH a/s version



8. Installing of the lifting arms

- a. All the pull out securities of the lifting arms control and adjust if necessary
 b. Lifting arms fix with bolts on carriage



9. Hydraulic oil

- a. Fill hydraulic oil until the oil level reaches the mark on the dipstick.
- b. For venting of the hydraulic circuit leave the Tank cap for the first 10 lifting movements opened.

10. Electric connection



Hereby have to be observed the general and local regulation. Therefore, this step can only be done only by trained/skilled persons/experts.

Pay attention to the necessary supply (see specifications).

11. Control before the first lifting

- a. All the screws, nuts etc. are tightened.
- b. Check all the hydraulic connections and cylinders for leakage if necessary retighten.
- c. Functioning of all push buttons. Take care that when you press the push button down all the locking catches are unlocked.
- d. Correct direction of the motor rotation.
- e. Lift and lower the lift 2 to 3 times and check the synchronization of the both carriages.
- f. Lower the lift completely and keep pressed the push button „DOWN „approximately 15 seconds so that the hydraulic system will be completely de-aired.



To check the synchronization you could hear if the safety catches are touching the carriage in the same time.

12. Loading lifting

- a. Lift a load on about 1000mm height
- b. Lower afterwards the load in the first safety notch (on approx 500mm).
- c. The synchronization ropes have to be equally tight.
- d. By the next lifting check equalizer synchronization ropes tension, and adjust if necessary.
- e. Lower the lift and install the missing covers.

13. After the installation fill out the attached inspection report.

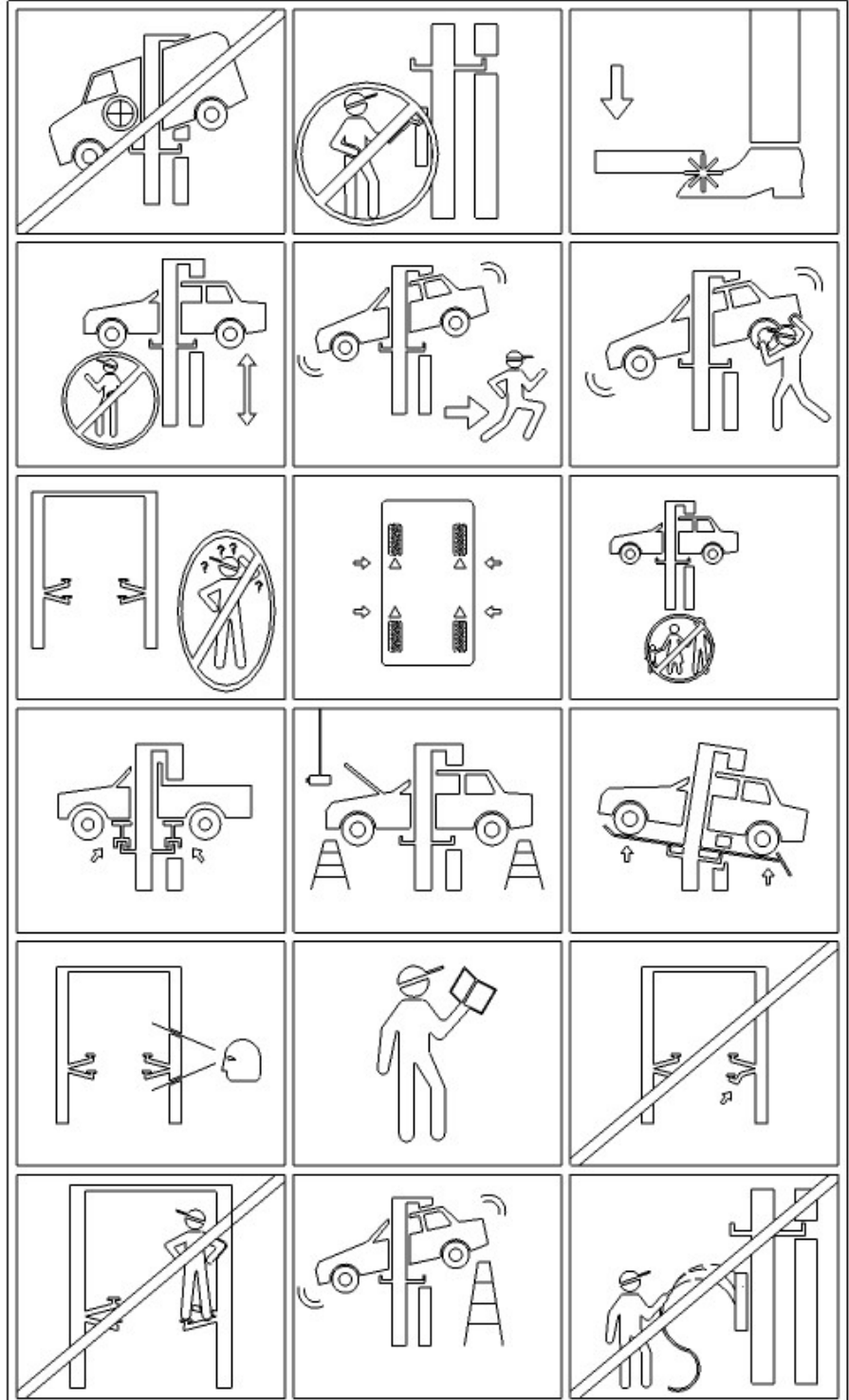


This information is required in a possible case of a potential claim.

OPERATION

Warning symbols

1. Check the correct load capacity and load distribution of vehicles.
2. Do not override the self-closing lifts control
3. Keep feet clear of lift while lowering.
4. Keep free the area by lifting or lowering of the vehicles.
5. Clear area if vehicle is in danger of falling.
6. Avoid excessive raking of the vehicle while on the lift.
7. The lift have to be used by trained operator only.
8. Use vehicle manufacturer's lifting points and close the doors before lifting of the vehicle
9. Allow no unauthorized persons in the working area.
10. Use height extenders when necessary to ensure a good contact.
11. Always use safety stands when removing or installing heavy components.
12. Auxiliary adapters may reduce load capacity.
13. Proper maintenance and inspection is necessary for safe operation.
14. Read operating and safety manuals before using the lift
15. Do no operate with a damaged lift
16. On the lift, lifting arms inside of the lifted vehicles any objects or people have not to be carried.
17. Before lowering the lift check that there are not obstructions under the vehicle or the lifting arms.
18. Lift must not be cleaned under running water



BTR-Nr. 0030 18.12.2012	Operating instructions	Stand: Dezember 2010
	Scope and activities	abgezeichnet am: 10.12.2012

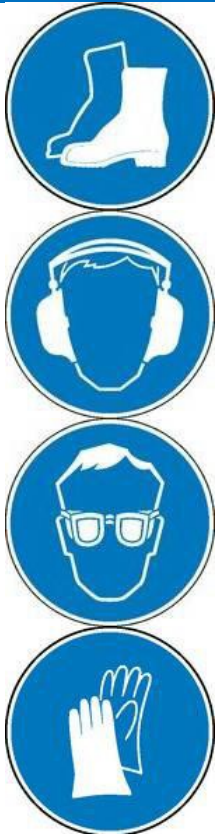
SCOPE OF APPLICATION

Vehicle lift

RISKS TO PEOPLE AND THE ENVIRONMENT

- Crushing point during the moving of the vehicle and/or parts
- Pinching - und shearing places during the moving of the vehicle and/or parts
- With a leaking system hydraulic oil can enter into the environment

PROTECTIVE MEASURES AND DIRECTIVES

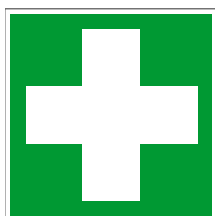


- This User's manual must be observed
- The lift have to be observed
- Operation only by trained personnel
- Pinching - und shearing places its surroundings
- Check the correct load capacity and load distribution of vehicles
- Secure vehicle against movement
- Daily perform a function test before starting
- Clear area if vehicle is in danger of falling
- No person carrying on the lift
- Keep free the area by lifting or lowering of the vehicles

BEHAVIOR IN THE EVENT OF FAILURE AND DANGER

- By any related operation incidents the lift have to secured and ensure for any use
- Inform supervisors in case of defects
- Deficiencies can only be removed by the specialist

ASSISTANCE IN ACCIDENTS – FIRST AID



- Secure the scene of an accident
- First aid assistance have to keep informed the rescuer _____
- and supervisors _____
- Take care of the casualties.
- Place of the first aid kit and first aid book : _____
- EMERGENCY CALL _____
- Records all the information in the first aid book


MAINTENANCE, DISPOSAL

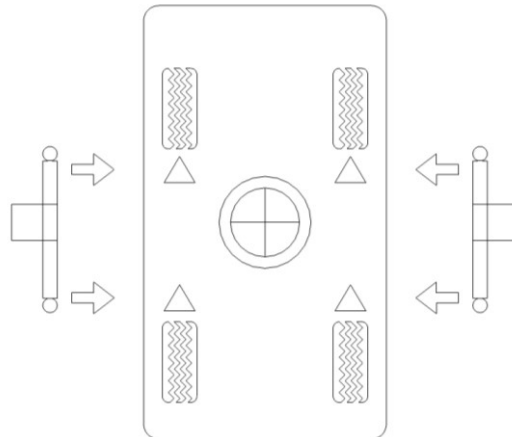
- Repair services of lift are performed by: _____
- Waste disposal (For example used oil) is responsible: _____

Utilization

This product is designed for lifting vehicles. The relevant technical specifications of the lift have to be considered.

1. Preparation

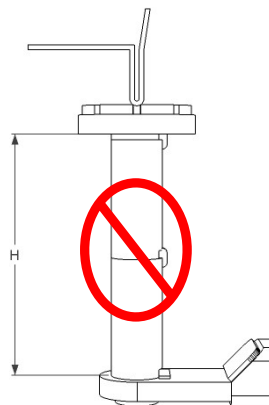
- a.  **READ AND UNDERSTAND** all safety warning procedures before operating lift.
- b. Lower the lift completely until the arm restraints device is deactivated.
- c. Place the lifting arms parallel to the drive direction.
- d. Drive the vehicle between the columns, paying attention by the load distribution.



- a. Adjust swing arms so that the vehicle is positioned with the center of gravity midway between pads. Adjust by turning up the height of the lifting pads until they will reach the manufacture indicated lifting points, if necessary use the needed lifting adaptors.



Maximum height. 250mm or maximum one pad adaptors.



2. Lifting the vehicle

- a. Switch on the main switch of the lift
- b. Raise the vehicle by pressing of the push button „UP“ until the vehicle is lifts of on a height of 100-150mm.
- c. Recheck to make sure the vehicle is secure and all locking pins are lock in place.
- d. Always ensure safeties are engaged before any attempt is made to work on or near vehicle.

3. Parking the vehicle
 - a. Up to a lifting height of 500mm automatically intervenes the safety notches.
 - b. Pressing the push button „LOCK UP“ for few seconds, lowers the carriages in the nearest safety notches. Pay attention to the height level.
4. Lowering the vehicle
 - a. Before lowering the lift check that there are not obstructions under the vehicle or the lifting arms.
 - b. Press and keep the push button „ LOWERING“ pressed, unlocks the safety notches and lowers.
5. Driving Out
 - a. Lower the lift completely.
 - b. Turn down the lifting pads and swing the lifting arms back to 90° position.
 - c. Drive the vehicle out of the lift.

MAINTENANCE

Maintenance and repairs should be performed by authorized service providers only or, after consultation with ATH, be performed by the customer



Before any maintenance and repair jobs, the lift have to be disconnected from the power supply (main switch turned off, disconnect the main plug) . Secured every thing against the power supply reconnection.

Only skilled persons/experts are allowed to work on the electrical part of the lift respectively on the supply.

Care references

- The lift finish should be inspected and cleaned on a regular basis
- All corrosive and harsh chemicals that come in contact with the lift should be removed immediately to prevent damage to the lift finish.
- Damaged caused by any contact of harsh chemicals should be treated or repaired immediately (i.e. penetrating oil, paint, etc.)
- Damages to the lift finish must be repaired to prevent further damage.
- Lift finishes damaged due to installation in highly corrosive areas (wash bays, outside, etc.) and not manufactured for these areas (fully galvanized) is not warranted by the manufacturer.
- Detailed maintenance and care instructions are located in the owner’s manual.

Troubleshooting

Symptoms	Reason	Troubleshooting
Lifting trouble		
The lift doesn't raise up by pressing of push button "Up" (Motor doesn't start)	Damages by the motor	Check the motor and if necessary replace it
	Blown fuses through voltage fluctuations	Detect and replace the fuses
	Defective push button and/or contact stage	Replace the push button and/or contact stage
	Defective main switch and/or contact	Replace main switch and/or contact
	Defective or inadequate supply line	Replace the supply line
	Fluctuating or incorrect input voltage	Check the input voltage
	Defective motor contactor	Replace the motor contactor
	Defective time- or control relay	Check the relays
The lift doesn't raise up by pressing of push button "Up" (Motor start)	Not enough hydraulic oil	Refill hydraulic oil
	Plugged oil filter	Clean the oil filter
	Oil leak	Replace the defective components
	Opened lowering valve	Check and if necessary replace the lowering valve
	Incorrect rotation of the motor	Change the phases
	Defective hydraulic gear pump	Check and if necessary replace the hydraulic gear pump
	Permissible load capacity is exceeded	Lift within the specified load capacity
	Pressure control valve too low set	Set the pressure control valve.
Jerkily lifting	Not enough hydraulic oil	Refill hydraulic oil
	Not enough space between the slide ways of the carriage and the columns	The distance between the slide ways and columns must be 1,5-2,5mm
	Air in hydraulic system	Vent the hydraulic system.
	Dirty oil	Change the hydraulic oil
	Slide ways are not lubricated	Lubricate slide ways

The lift raises after release the push button	Defective push button	Replace the push button
Lowering trouble		
The lift does not lowered	Safety notches not respond	Check cabling Check and if necessary replace the electromagnets Release the notches, short lifting
	Defective control relay	Check the control relay
	The lift is driven onto an obstacle	Remove the obstacle
	Triggered excess flow cut-off valve	Lift shortly, reduce lowering time and press "DOWN" again
	Not operating lowering valve	Check the electrical connections
	Defective lowering valve solenoid	Replace the solenoid
	Defective lowering valve	Check and if necessary replace the lowering valve
	Lowering speed control valve incorrectly set	Set the lowering speed control valve
If the error cannot be find, lower the lift using the emergency descent screw and notify our Service-Team.		
Lift lowers to slowly or jerky	Lowering valve is dirty	Clean lowering valve
	Lowering speed control valve false set	Set lowering speed control valve
Lift lowers by itself	Leaking hydraulic connections	Retighten and if necessary sealing the hydraulic connections
	Leaking hydraulic hoses	Replace the hydraulic hoses
	Leaking hydraulic cylinders	Replace the seals and clean the hydraulic system.
	Dirty or defective lowering valve	Clean and if necessary replace the lowering valve
	Leaking non return valve	Clean and if necessary replace the non return valve
Sonstige Probleme		
The lift raises and lowers not synchronized	Air in hydraulic system	Vent the hydraulic system.
	Insufficient strain of the synchronization ropes	Set the synchronization ropes
Abnormal noises of the motor	Plugged oil filter	Clean the oil filter
	Air in hydraulic system	Vent the hydraulic system
	Dirty oil	Change the hydraulic oil
Motor contactor enabled	Check the electrical contacts	Replace the motor contactor
	Check the capacitance of the motor contactor	Replace the fuses
	Check the integrity of the wires	Replace the cables

Wartungsplan

Intervals:	Components:	Examination to:
Daily	Lifting pads	Wear and deformation
	Synchronizations ropes	Strain
	Lift structure	Apparent damage
	Lift structure	Cleanliness
	Lifting chain	Apparent damage
	Hydraulic	Leakage
	Safety devices	Apparent damage
Weekly	Electromagnets	Functioning and wear
	Hydraulic cylinders	Wear
Monthly	Anchors bolts	Torque (specified by the anchors 'manufacturer)
¼ Annually	Pulleys' bolts and safety notches	Cleaning
	Lifting chain's bolts	Wear
	Lifting chain	Wear and deformation
	Synchronization ropes	Wear
	Lifting arm restraints	Function and cleaning
	Hydraulic cylinders (dust seal)	Wear and deformation
Twice a year	Electrical components	Damages
	Oil level	Level
Once a year	Hydraulic cylinders seals	Leaking oil and deformation
	Lifting arms	Wear and straight work
Every 3 years (Recommended)	Hydraulic oil	Changing
	Hydraulic-System	Cleaning
Every 6 years	Hydraulic hoses	Replacing

Lubrication schedule

<i>Intervals:</i>	<i>Components:</i>	<i>Oil or type of grease</i>
Monthly	Lifting chain	Chain lubrication chain
	Bolts from lifting chain	Multi-purpose grease
	Slide ways	Multi-purpose grease
¼ Annually	Synchronization ropes	Adhesive Grease
	Arm restraint device	Greasing
	Pulleys' bolts and safety notches	Multi-purpose grease

Maintenance and service instructions

Oil level control

1. Lower the lift completely
2. Remove the tank cap with integrated oil dipstick
3. Control the oil level on the oil dipstick

Oil change

1. Lower the lift completely
2. Remove the tank oil drain plug
3. Carefully Remove the tank oil drain plug screw and drain the oil in a suitable retainer



Clean with attention the oil tank and the oil filter to prevent a premature contaminate of the hydraulic oil.

4. After the completely oil draining seal the oil tank with the oil drain plug screw.
5. Fill the oil tank with new oil.
6. Raise and lower the lift and check if the maximum lifting height is still correct. Carefully refill, if necessary.

The used oil has to be disposed of in accordance with all legal and federal requirements.

Hydraulic system bleeding

1. For venting of the hydraulic circuit leave the Tank cap for the first 10 lifting movements opened.
2. Lower the lift completely and keep pressed the push button „DOWN „approximately 15 seconds so that the hydraulic system will be completely de-aired.

Setting of the synchronization ropes



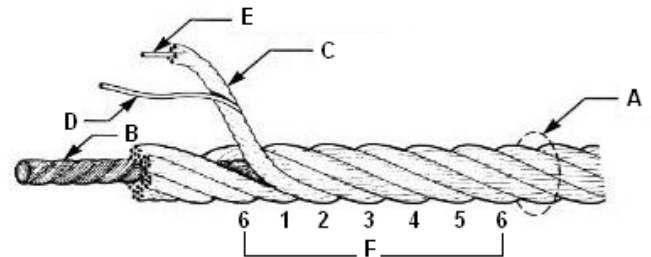
To check the synchronization you could hear if the safety catches are touching the carriage in the same time, the carriage which later touch must be tightened.

1. Raise lifts to a height of 100-200mm.
2. Remove the covers bands.
3. Unscrew the counter nut slightly.
4. Tight the traction rope using a flat wrench.
5. Tight back the counter nut .

Checking of the synchronization ropes:

Description of the Part:

- A = Wire rope
- B = Core
- C = Stand
- D =Wire
- E = Center wire
- F = One way length

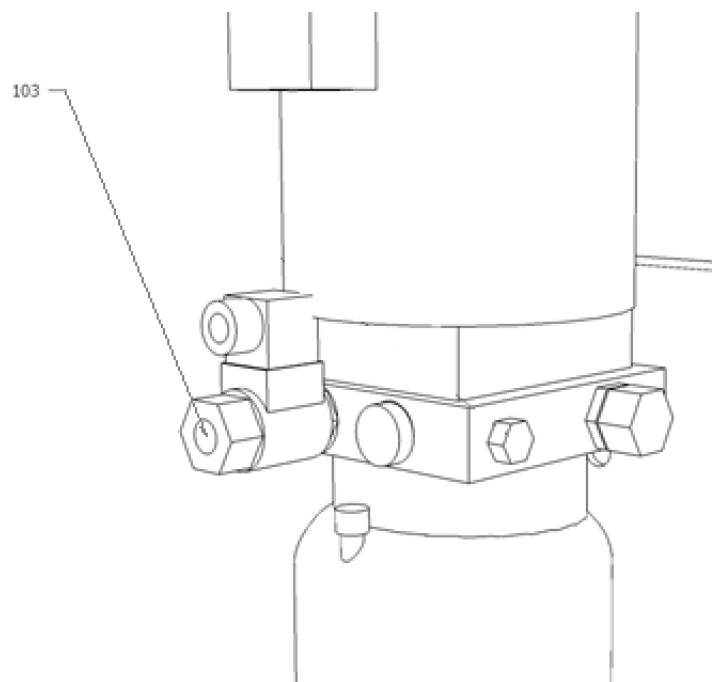


An exchange of the synchronization ropes must be making by the next following relevant points:

1. Six randomly distributed broken wires within any one lay length
2. Three broken wires in one strand within one lay length
3. Corrosion that pits the wires and/or connectors.
4. Kinking, crushing, cutting, bird-caging or a popped core.
5. Wear that exceeds 10% of a wire's original diameter.

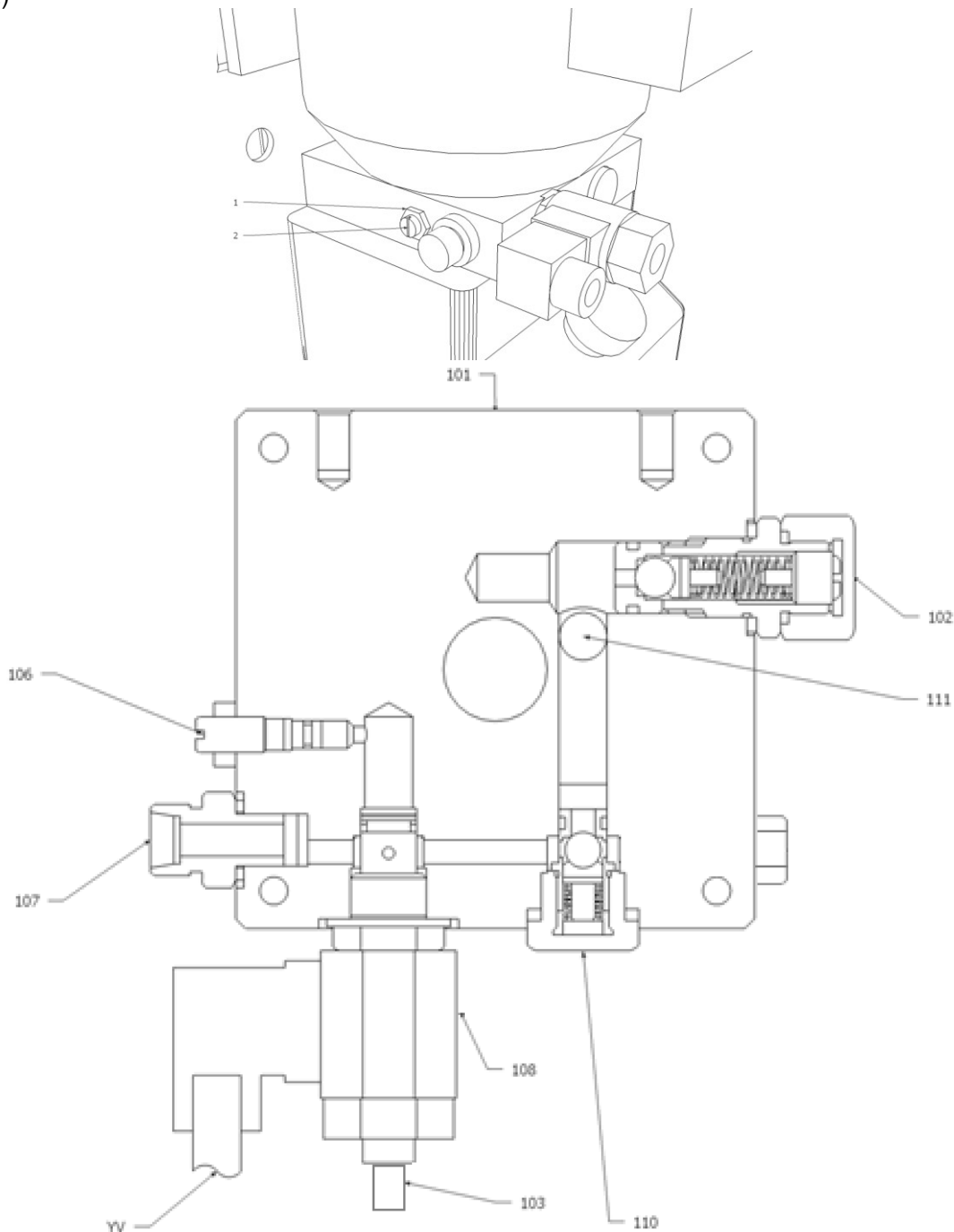
Notabsenkung im Falle eines Stromausfalls

1. To unlock the safety notches lift the carriages using a suitable auxiliary lifting device approximately 30mm.
2. Unlock and fix manually the safety notches and lower the carriage.
3. Repeat the steps 1 and 2 on the opposite carriage.
4. Switch off the lift and protect it against being switched on again.
5. Turn the emergency descent screw (103) slowly to the left (counterclockwise)
6. Once complete, close the emergency descent screw (103) by turning it to the right (clockwise)



Einstellen des Ventils für Senkgeschwindigkeit

1. Lösen Sie die Kontermutter (1) des Senkventils (106; 2).
2. Stellen Sie die Senkgeschwindigkeit ein, wie in den technischen Daten angegeben.
3. Durch Drehen der Madenschraube des Senkventils (106; 2) im Uhrzeigersinn senkt die Hebebühne langsamer, beim Drehen gegen den Uhrzeigersinn senkt diese schneller ab.
4. Zum Abschluss der Arbeiten sichern Sie Ihre Einstellung durch Festziehen der Kontermutter des Senkventils (106; 2)



101: Hydraulic block	102: Pressure control valve
103: Emergency descent screw	106: Lowering speed control valve
107: Hydraulic fitting connection	108: Lowering valve with descend screw
110: Non return valve	111 Hydraulic gear pump
YV: Solenoid for lowering valve	

KONFORMITÄTSEKTLÄRUNG

Seriennummer / Serial number:

**Konformitätserklärung
Declaration of conformity
Déclaration de conformité
Declaración de conformidad**



Für / for / pour / para

KFZ-Hebebühne
Car-lift
Pons élévateurs
Elevador

Typ / Type / Type / Tipo

**Comfort Lift 2.30, Comfort Lift 2.35, Comfort Lift 2.40,
Comfort Lift 2.30L, Comfort Lift 2.35L, Comfort Lift 2.40L,
Comfort Lift 2.30X, Comfort Lift 2.35X, Comfort Lift 2.40X,**

Wurden folgende einschlägige Bestimmungen beachtet
The following EG-directives are considered
Les Directives suivantes de l'Union européenne ont été respectées
Los siguientes directivas pertinentes de la Unión Europea fuer cumplido

**2006/42/EC (Machine-Directive)
2006/95/EC (Low voltage directive)**

Folgende harmonisierten Normen und Vorschriften wurden eingehalten
The following harmonized standards are applied
Les normes harmonisées suivantes ont été appliquées
Los siguientes normas y reglamentos armonizados fuer cumplido

**DIN EN 1493:2010 (Machine-Directive)
DIN EN 60204-1: 2006+A1:2009 (Low voltage directive)**

Hersteller
Manufacturer
Fabricant
Fabricante

**ATH-Heinl GmbH & Co. KG
Kauerhofer Straße 2
D-92237 Sulzbach-Rosenberg
Germany**

Prüfinstitut
Institut of Quality
Institut de qualité
Instituto de calidad

**Ente Certificazione Macchine
Via Mincio 386, Loc. Formica
IT- 41056 Savignano sul Panaro (MO)
Italy**

Referenznummer der technischen Daten:
Reference number for the technical data:
Numéro de référence des données techniques:
Número de referencia de los datos técnicos:

ATH-12000442

Typ / Type / Type / Tipo

Herstellerbezeichnung
Designation of producer
Désignation du producteur
Denominación del fabricante

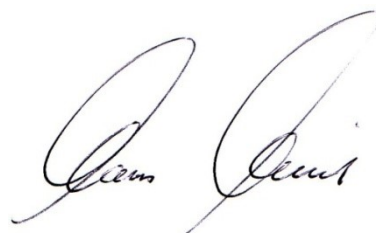
**Comfort Lift 2.30, Comfort Lift 2.35, Comfort Lift 2.40,
Comfort Lift 2.30L, Comfort Lift 2.35L, Comfort Lift 2.40L,
Comfort Lift 2.30X, Comfort Lift 2.35X, Comfort Lift 2.40X,**

Nummer des Zertifikats:
Number of the certificate:
Numéro du Certificat
Número del certificado

**LL120515/ATH483 (Machine-Directive)
LL120606/ATH617 (Low voltage directive)**

Hiermit wird bestätigt, dass die oben bezeichneten Maschinen den genannten EG-Richtlinien entsprechen.
Herewith we confirm that the above named machines are according to the named EC-directives.
Nous certifions par la présente la conformité des machines décrites ci-dessus aux Directives de l'Union européennes citées.
Confirmamos con esto de que la mercancía denominada arriba cumple las directivas llamadas de la Unión Europea.

**ATH-Heinl GmbH & Co. KG
Kauerhofer Straße 2
D-92237 Sulzbach-Rosenberg
Germany
Im Mai 2017**



ATH-Heinl GmbH & Co. KG/ Hans Heinl (Geschäftsführer)

Seriennummer / Serial number:

**Konformitätserklärung
Declaration of conformity
Déclaration de conformité
Declaración de conformidad**



Für / for / pour / para
KFZ-Hebebühne
Car-lift
Ponts élévateurs
Elevador

Typ / Type / Type / Tipo

**Comfort Lift 2.50,
Comfort Lift 2.50X**

Wurden folgende einschlägige Bestimmungen beachtet
The following EG-directives are considered
Les Directives suivantes de l'Union européenne ont été respectées
Los siguientes directivas pertinentes de la Unión Europea fueron cumplidos

**2006/42/EC (Machine-Directive)
2006/95/EC (Low voltage directive)**

Folgende harmonisierten Normen und Vorschriften wurden eingehalten
The following harmonized standards are applied
Les normes harmonisées suivantes ont été appliquées
Los siguientes normas y reglamentos armonizados fueron cumplidos

**DIN EN 1493:2010 (Machine-Directive)
DIN EN 60204-1: 2006+AC:2010 (Low voltage directive)**

Hersteller
Manufacturer
Fabricant
Fabricante

**ATH-Heinl GmbH & Co. KG
Kauerhofer Straße 2
D-92237 Sulzbach-Rosenberg
Germany**

Prüfinstitut
Institut of Quality
Institut de qualité
Instituto de calidad

**Ente Certificazione Macchine
Via Mincio 386, Loc. Formica
IT- 41056 Savignano sul Panaro (MO)
Italy**

Referenznummer der technischen Daten:
Reference number for the technical data:
Numéro de référence des données techniques:
Número de referencia de los datos técnicos:

ATH-12001003

Typ / Type / Type / Tipo

**Comfort Lift 2.50,
Comfort Lift 2.50X**

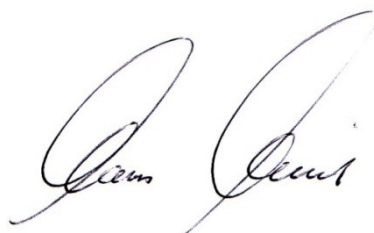
Herstellerbezeichnung
Designation of producer
Désignation du producteur
Denominación del fabricante

Nummer des Zertifikats:
Number of the certificate:
Numéro du Certificat
Número del certificado

**0D121128/ATH1810 (Machine-Directive)
0D121128/ATH1810 (Low voltage directive)**

Hiermit wird bestätigt, dass die oben bezeichneten Maschinen den genannten EG-Richtlinien entsprechen.
Herewith we confirm that the above named machines are according to the named EC-directives.
Nous certifions par la présente la conformité des machines décrites ci-dessus aux Directives de l'Union européenne citées.
Confirmamos con esto de que la mercancía denominada arriba cumple las directivas llamadas de la Unión Europea.

**ATH-Heinl GmbH & Co. KG
Kauerhofer Straße 2
D-92237 Sulzbach-Rosenberg
Germany
Im Juni 2012**

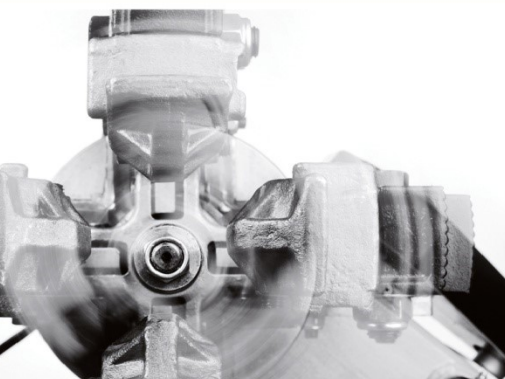


ATH-Heinl GmbH & Co. KG/ Hans Heinl (Geschäftsführer)

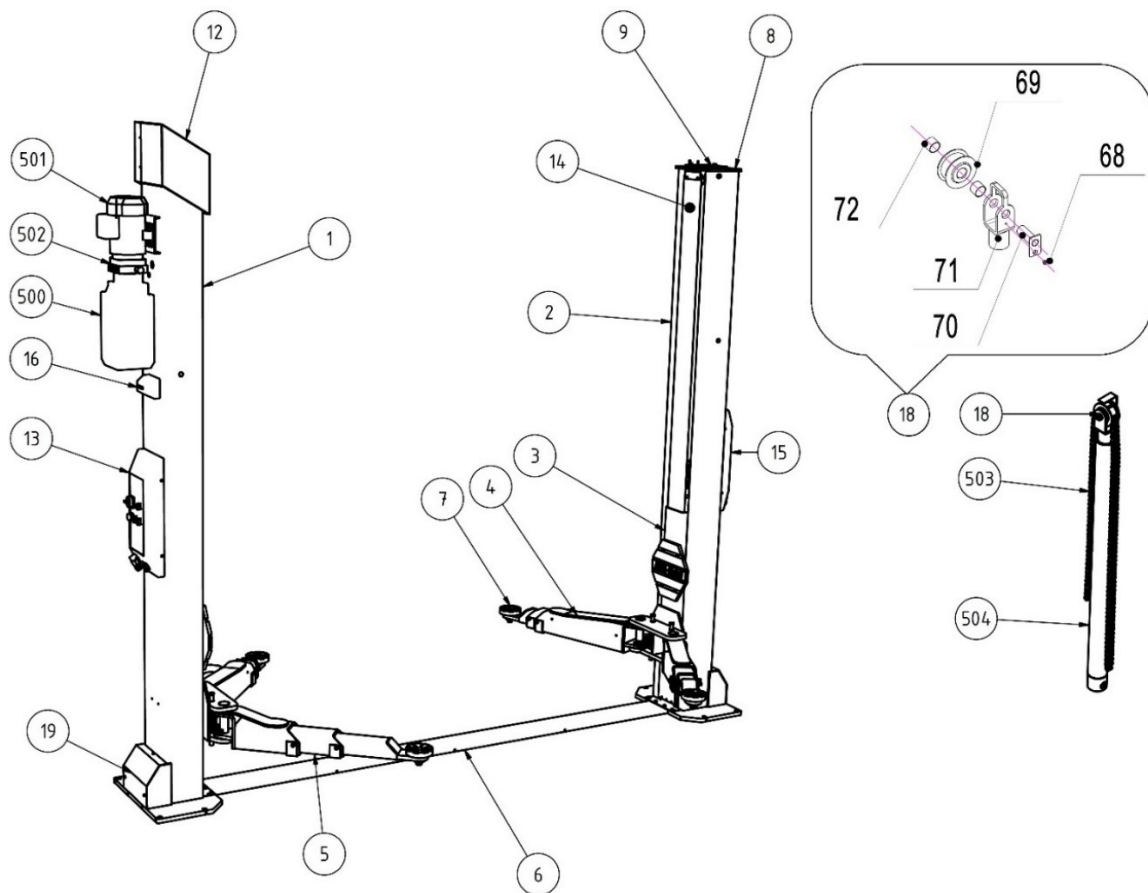


ATH-Heinl

SPARE PARTS LIST

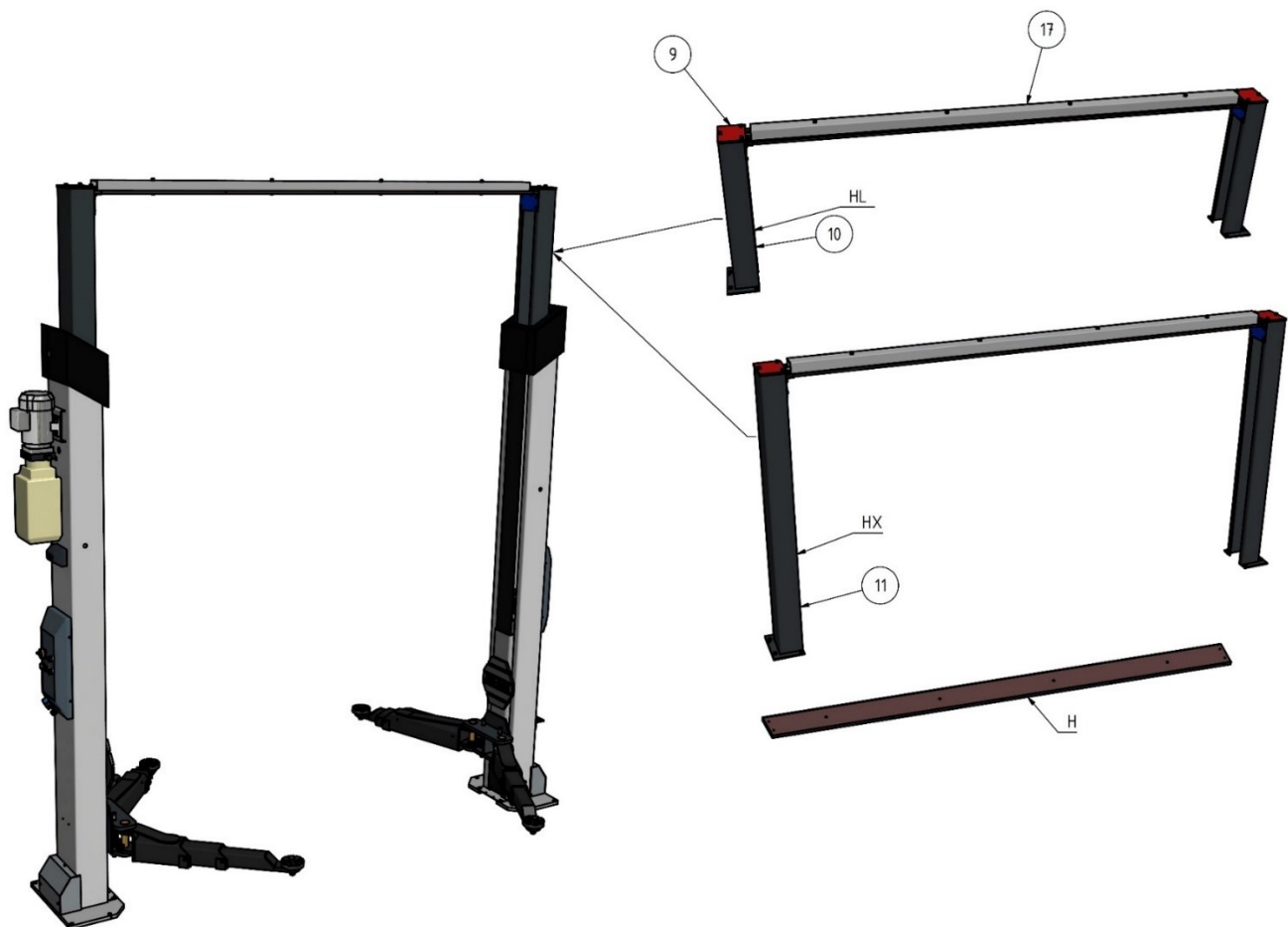


4500 kg

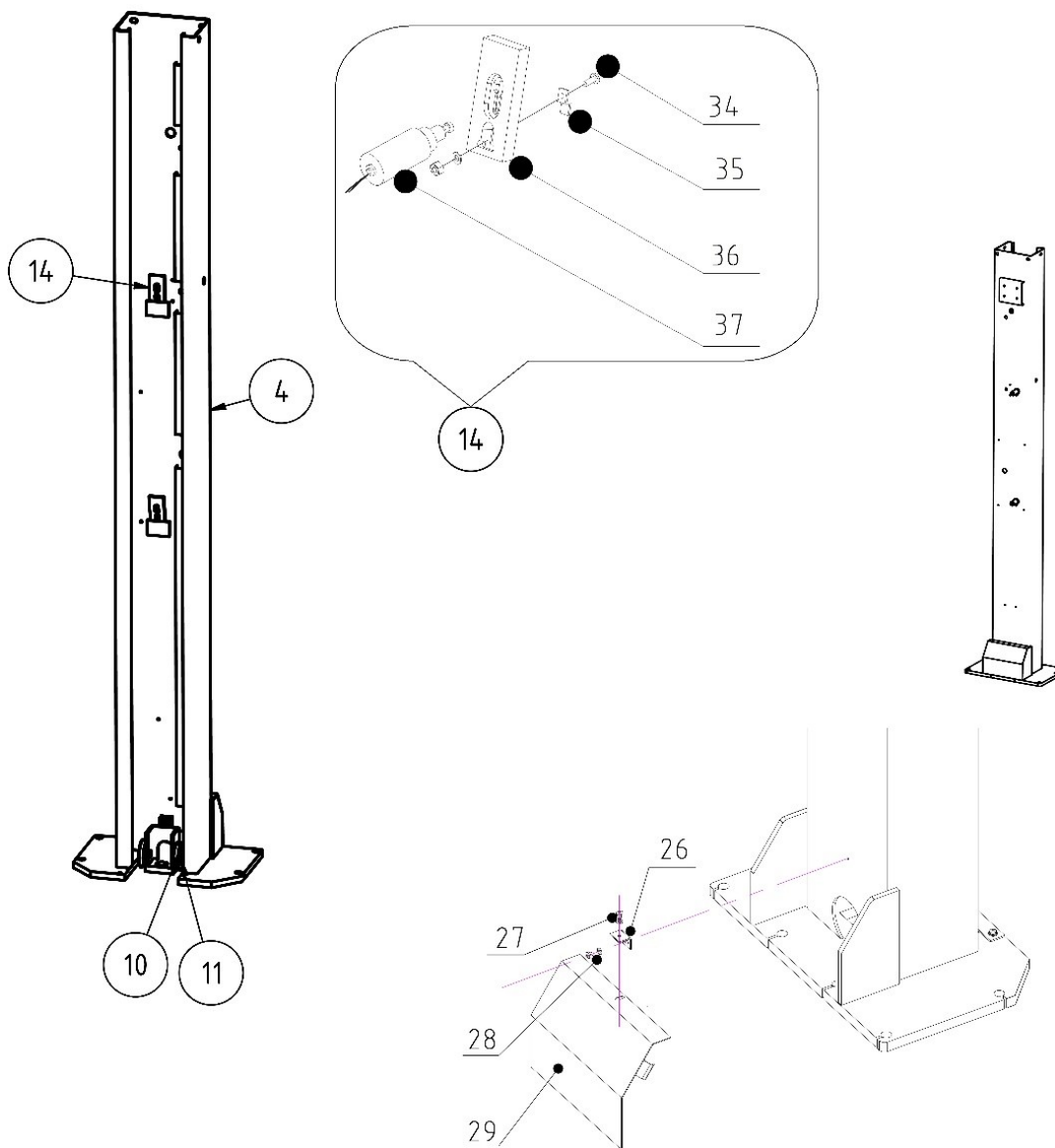


No.	ATH-Nummer	Bezeichnung	Description	X
00001		Main post		1
00002		Folgesäule		1
00003	HHW2332	Hubwagen		2
00004	HKA2028-2	Tragearm 2tlg. kurz - 3.0T		2
00005	HKA2029-2	Tragearm 2tlg. Lang - 3.0T		2
00004'	HKA2030-2	Tragearm 3tlg. Kurz - 3.5T		2
00005'	HKA2032-2	Tragearm 3tlg. Lang - 3.5T		2
00004''	HKA2040-2	Tragearm 3tlg. Kurz verstärkt - 4.0T		2
00005''	HKA2045-2	Tragearm 3tlg. Lang verstärkt - 4.0T		2
00004'''	HKA2050-2	Tragearm 3tlg. Kurz verstärkt - 5.0T		2
00005'''	HKA2055-2	Tragearm 3tlg. Lang verstärkt - 5.0T		2
00006		Überfahrblech		1
00007	HAT4119	Trageteller kpl.		4
00008	HKP2342	Kopfplatte		2
00012	HDA2010	Hut für Säule		2
00013	HSE7880	Schaltkasten Comfort		1
00014	HAB2058.	Abdeckband Comfort		2
00015	HSE7882	Schaltkasten Folgesäule		1
00016	HAM2054	Magnetabdeckung		2
00018	HKR6412	Umlenkrolle für Kette kpl. 3,0 3,5 4,0T		2
00018'	HKR6416	Umlenkrolle 5,0T kpl.		2
00068		Schraube		2
00069	HUR2825	Umlenkrolle für Kette 3,0 3,5 4,0T		2
00069'	HUR2826	Umlenkrolle 5,0T		2
00070	HBR2020	Bolzen für Umlenkrolle 3,0 3,5 4,0T		2
00070'	HBR2021	Bolzen für Umlenkrolle 5,0T		2
00071	HAR2320	Aufnahme Umlenkrolle 3,0 3,5 4,0T		2

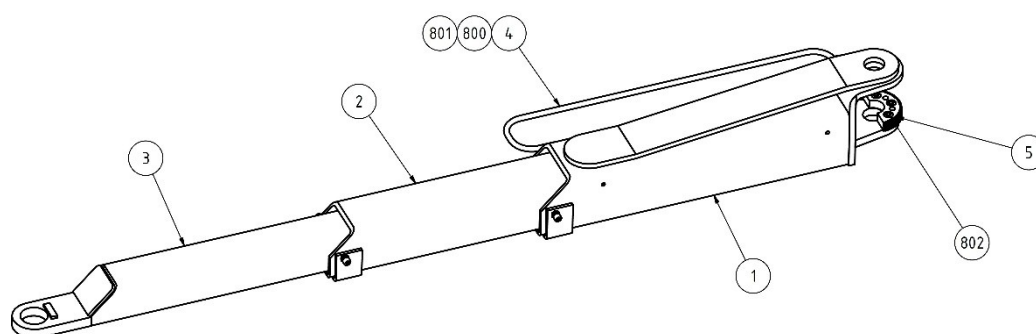
00071'	HAR2321	Aufnahme Umlenkrolle 5,0T		2
00072		Lagerbuchse		2
00500	HOT6716	Tank		1
00500_1	HHA6526	Hydraulik-Aggregat 400V mit Kunststofftank (Comfort)		1
00500_2	HHA6527	Hydraulik-Aggregat 230V mit Kunststofftank (Comfort)		Opt.1
00501	HEM7410	Motor		1
00502	HHB6225	Hydraulikblock		1
00503	HHK6414	Kette		2
00504	HHZ6210.10	Zylinder		2



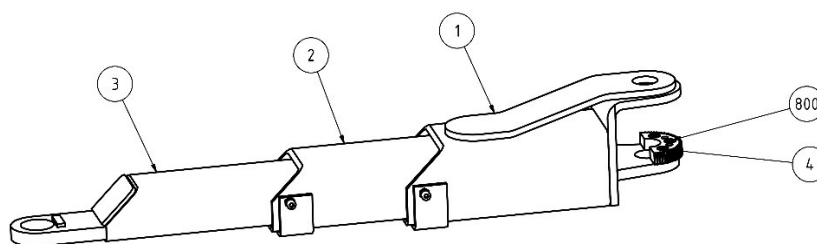
No.	ATH-Nummer	Bezeichnung	Description	X
01009	HDP2010	Deckelplatte		2
01010	HSE8112	Erhöhung HL		2
01011	HSE8114	Erhöhung HX		2
01017	HVQ2330	Verstärkung Quertraverse		1



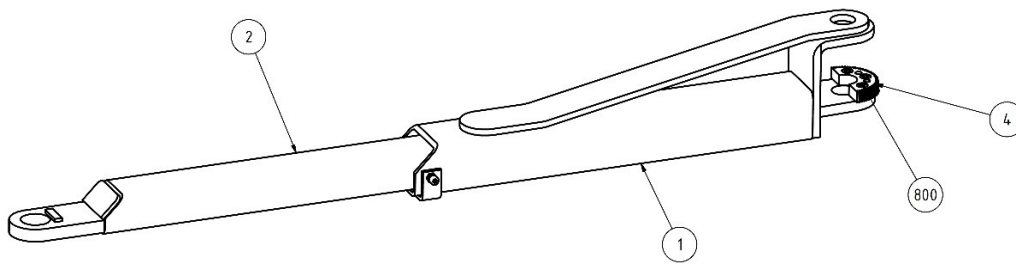
No.	ATH-Nummer	Bezeichnung	Description	X
02004	-----	Säule		1
02010	HUR2829	Seilrolle		2
02011	HSR8716	Sicherungsring 25x1,2		2
02014	-----	Raste		2
02026	-----	Winkel Abdeckung		1
02027	-----	Befestigung Abdeckung		1
02028	-----	Befestigung Winkel		1
02029	-----	Abdeckung		1
02034	-----	Befestigung Raste		2
02035	HBS2114	Befestigung für Raste		2
02036	HBS2111	Sicherheitsraste		2
02037	HMR7410	Elektromagnet für Sicherheitsraste		2



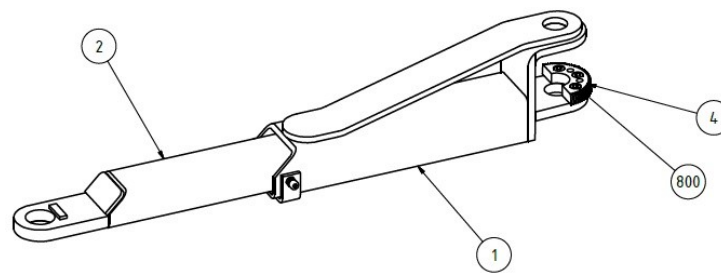
No.	ATH-Nummer	Bezeichnung	Description	X
	HKA2045-2	Tragearm 3tlg. lang verstärkt-2 (4,0T)		2
	HKA2032-2	Tragearm 3tlg. lang-2 (3,5T)		2
	HKA2055-1	Tragearm 3tlg. lang verstärkt-1 (5,0T)		2
03001		Arm 4T L hinterer Teil		1
03001.1		Arm 3.5T L hinterer Teil		1
03002		Arm 4T L mittlerer Teil		1
03002.1		Arm 3.5T L mittlerer Teil		1
03003		Arm 4T L vorderer Teil		1
03003.1		Arm 3.5T L vorderer Teil		1
03004	HBG3125	Bügel		1
03005	HRS2013	Rastenscheibe		1
03800	HIS2540	Inbusschraube M8x12		2
03801	HBS8627	Beilagscheibe Ø 8,4 DIN125		2
03802		Inbusschraube M10x20		3



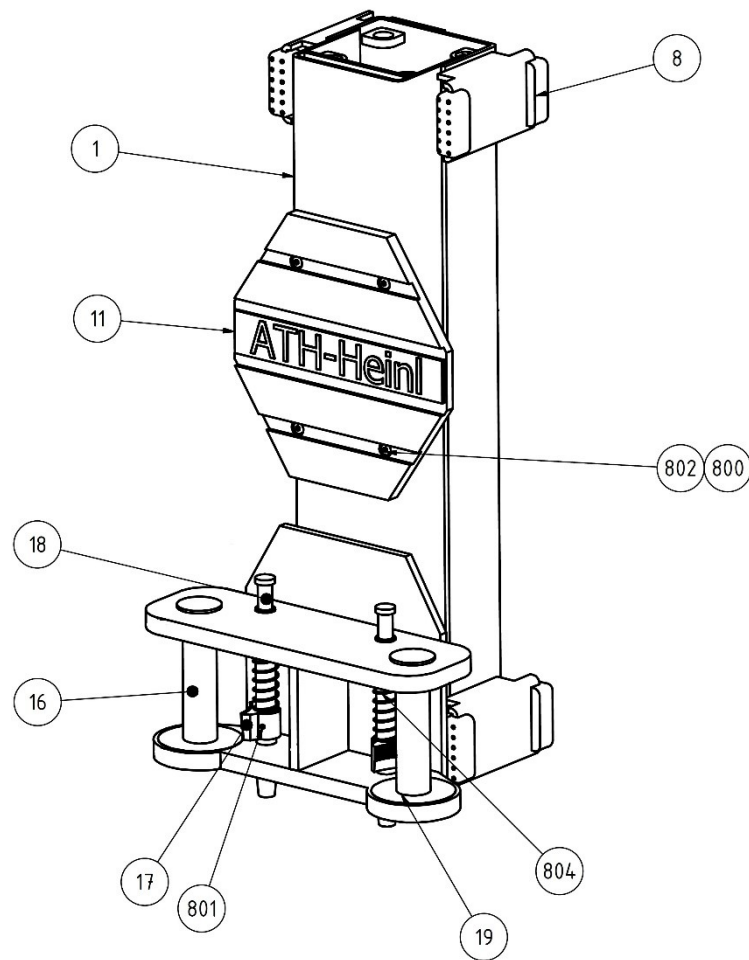
No.	ATH-Nummer	Bezeichnung	Description	X
	HKA2040-2	Tragearm 3tlg. kurz verstärkt-2 (4,0T)		2
	HKA2030-2	Tragearm 3tlg. Kurz-2 (3,5 T)		2
	HKA2050-1	Tragearm 3tlg. kurz verstärkt-1 (5,0T)		2
04001	HLA2025-2	Arm 4T K hinterer Teil		1
04001.1		Arm 3.5 TK hinterer Teil		1
04002	HLA2024	Arm 4T K mittlerer Teil		1
04002.1		Arm 3.5 TK mittlerer Teil		1
04003	HLA2026	Arm 4TK vorderer Teil		1
04003.1		Arm 3.5 TK vorderer Teil		1
04004	HRS2013	Rastenscheibe		1
04800		Inbusschraube M10x20		3



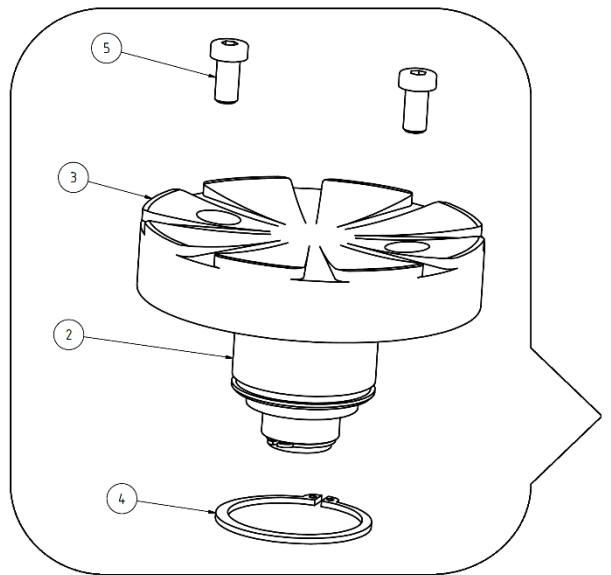
No.	ATH-Nummer	Bezeichnung	Description	X
	HKA2029-2	Tragearm 2tlg. lang-2 (3,0T)		2
05001		Arm 3TL hinterer Teil		1
05002		Arm 3TL vorderer Teil		1
05004	HRS2013	Rastenscheibe		1
05800		Inbusschraube M10x20		3



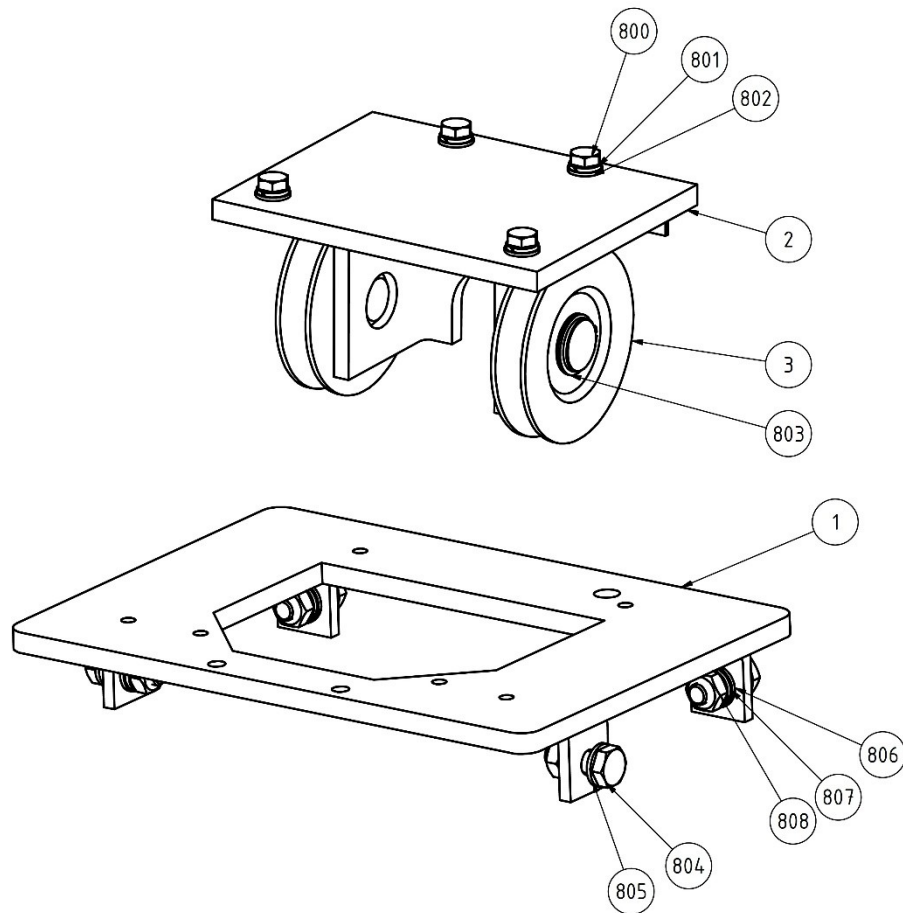
No.	ATH-Nummer	Bezeichnung	Description	X
	HKA2028-2	Tragearm 2tlg. kurz-2 (3,0T)		
06001		Arm 3TK hinterer Teil		1
06002		Arm 3TK vorderer Teil		1
06004	HRS2013	Rastenscheibe		1
06800		Inbusschraube M10x20		3



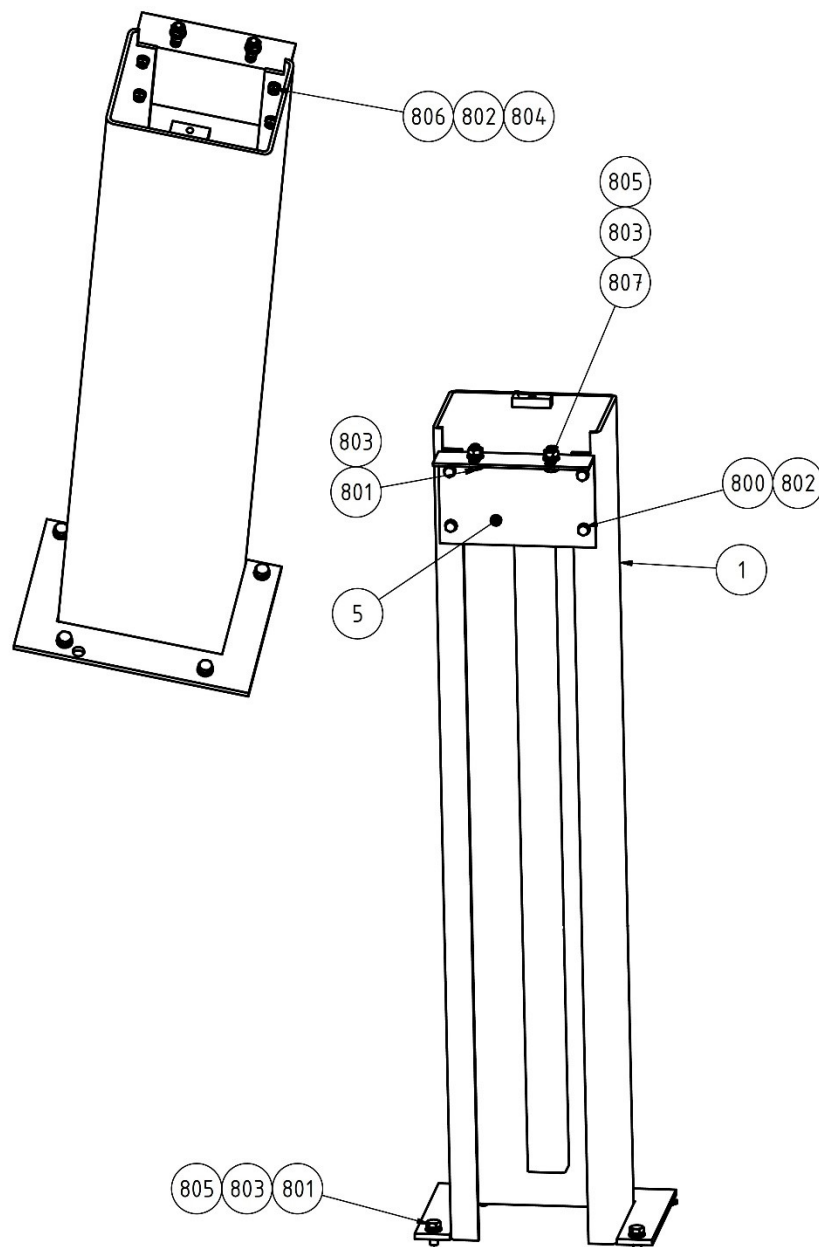
No.	ATH-Nummer	Bezeichnung	Description	X
07001	HHW2332	Hubwagen		2
07001'	HHW2331	Hubwagen (5T)		2
07008	HGS2114.02	Gleitstück		8
07008	HGS2115	Gleitstück (5T)		
07011	HTS2014	Gummischutz		1
07016	HBT2020	Bolzen		2
07017	HRT2013	Verriegelung		2
07018	HBR2016	Entriegelungsstift		2
07019	HBS8628	Beilagscheibe Arm		2
07800	HBS8627	Unterlegscheibe 8,4		4
07801	HSS8672	Spannstift 4x32		4
07802	HIS2540	Zylinderkopfschraube M8x12		4
07804	HFR2012.01	Feder		2



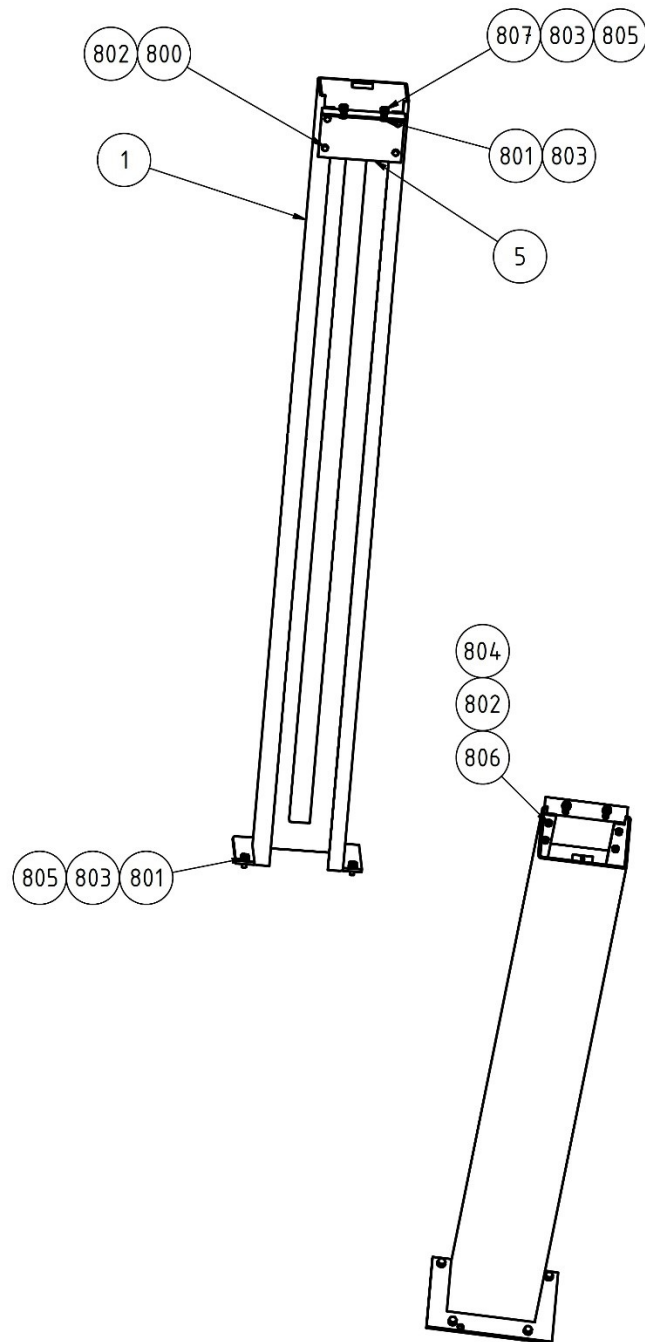
No.	ATH-Nummer	Bezeichnung	Description	X
08001	HAT4119	Trageteller kpl.		4
08002		Trageteller		1
08003	HGT4115	Gummiauflage		4
08004	HSR8712	Sicherungsring 50x2		1
08005	HIS2537	Zylinderkopfschraube M8x16		2



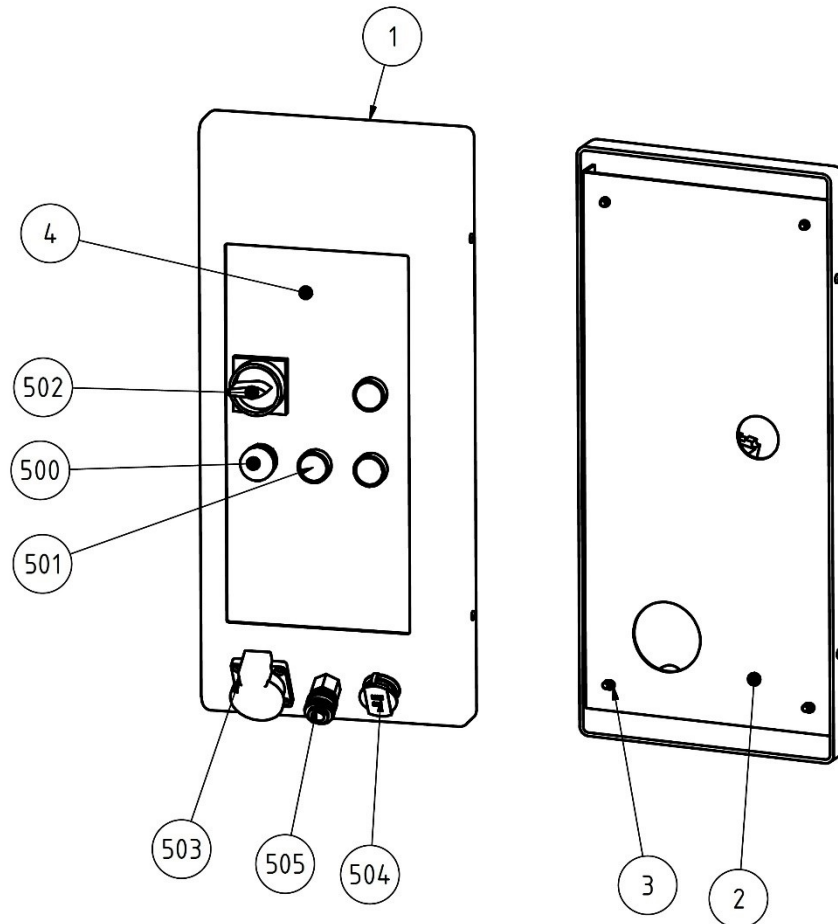
No.	ATH-Nummer	Bezeichnung	Description	X
09001	HSD2328	Säulendeckel		1
09001'	HSD2329	Säulendeckel (5,0T)		
09002	HKP2328.10	Kopfplatte		1
09002'	HKP2329.10	Kopfplatte (5,0T)		
09003	HUR2829	Seilrolle		2
09800	HSS8618	Sechskantschraube M8x20		4
09801	HFR8614	Federring 8		4
09802	HBS8627	Unterlegscheibe 8,4		4
09803	HSR2310	Sicherungsring 25x1,2		2
09804	HSS8610	Sechskantschraube M10x30		4
09806	HBS8623	Unterlegscheibe 10,5		8
09807	HFR8610	Federring 10		4
09808	HSM8640	Sechskantmutter M10		4



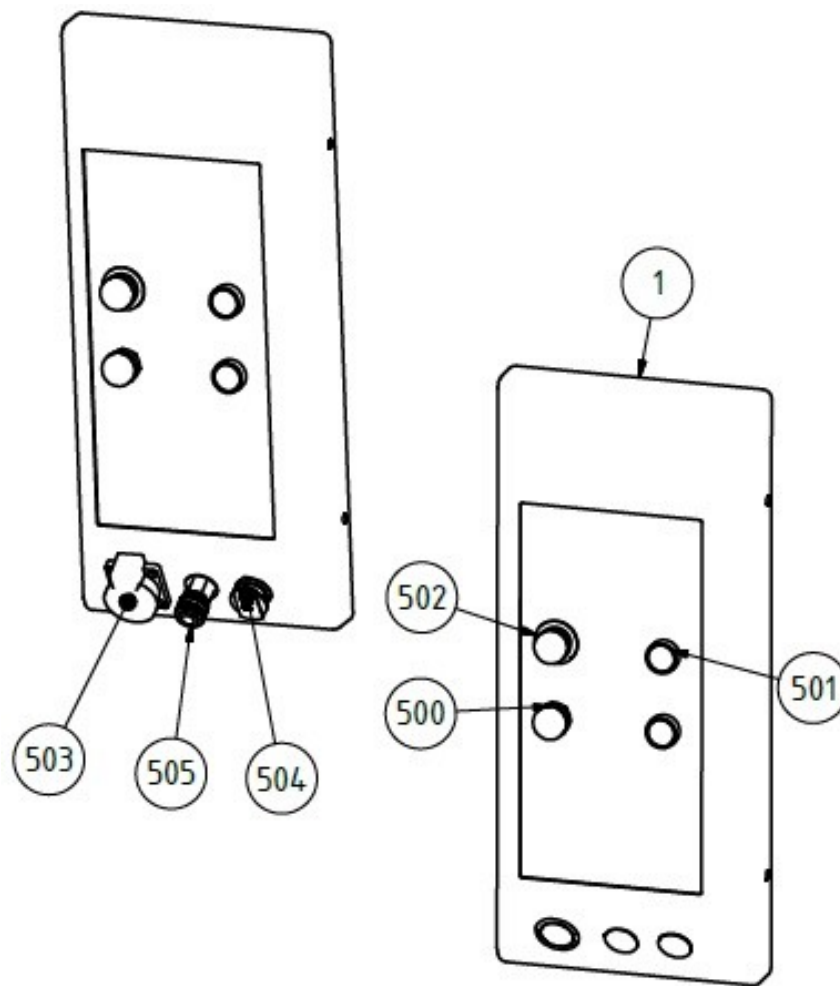
No.	ATH-Nummer	Bezeichnung	Description	X
10001	HSE2016.10	Erhöhung HL		1
10005	HBW8118	Befestigungswinkel Quertraverse		1
10800	HSS8617	Sechskantschraube M6x18		4
10801	HSS8618	Sechskantschraube M8x20		6
10802	HBS8622	Unterlegscheibe 6,4		8
10803	HBS8627	Unterlegscheibe 8,4		8
10804	HFR8615	Federring 6		4
10805	HFR8614	Federring 8		6
10806	HSM8644	Sechskantmutter M6		4
10807	HSM8641	Sechskantmutter M8		2



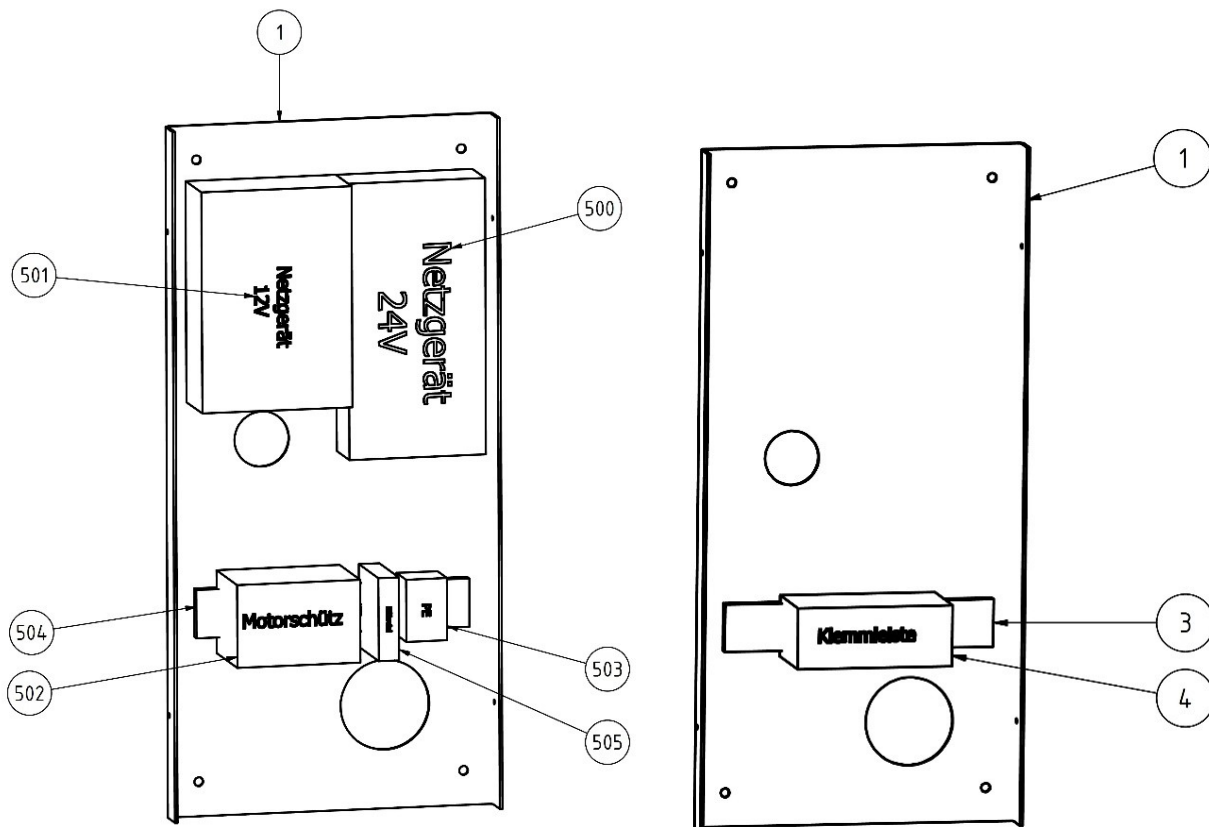
No.	ATH-Nummer	Bezeichnung	Description	X
11001	HSE2017.10	Erhöhung HX		1
11005	HBW8118	Befestigungswinkel Quertraverse		1
11800	HSS8617	Sechskantschraube M6x18		4
11801	HSS8618	Sechskantschraube M8x20		6
11802	HBS8622	Unterlegscheibe 6,4		8
11803	HBS8627	Unterlegscheibe 8,4		8
11804	HFR8615	Federring 6		4
11805	HFR8614	Federring 8		6
11806	HSM8644	Sechskantmutter M6		4
11807	HSM8641	Sechskantmutter M8		2



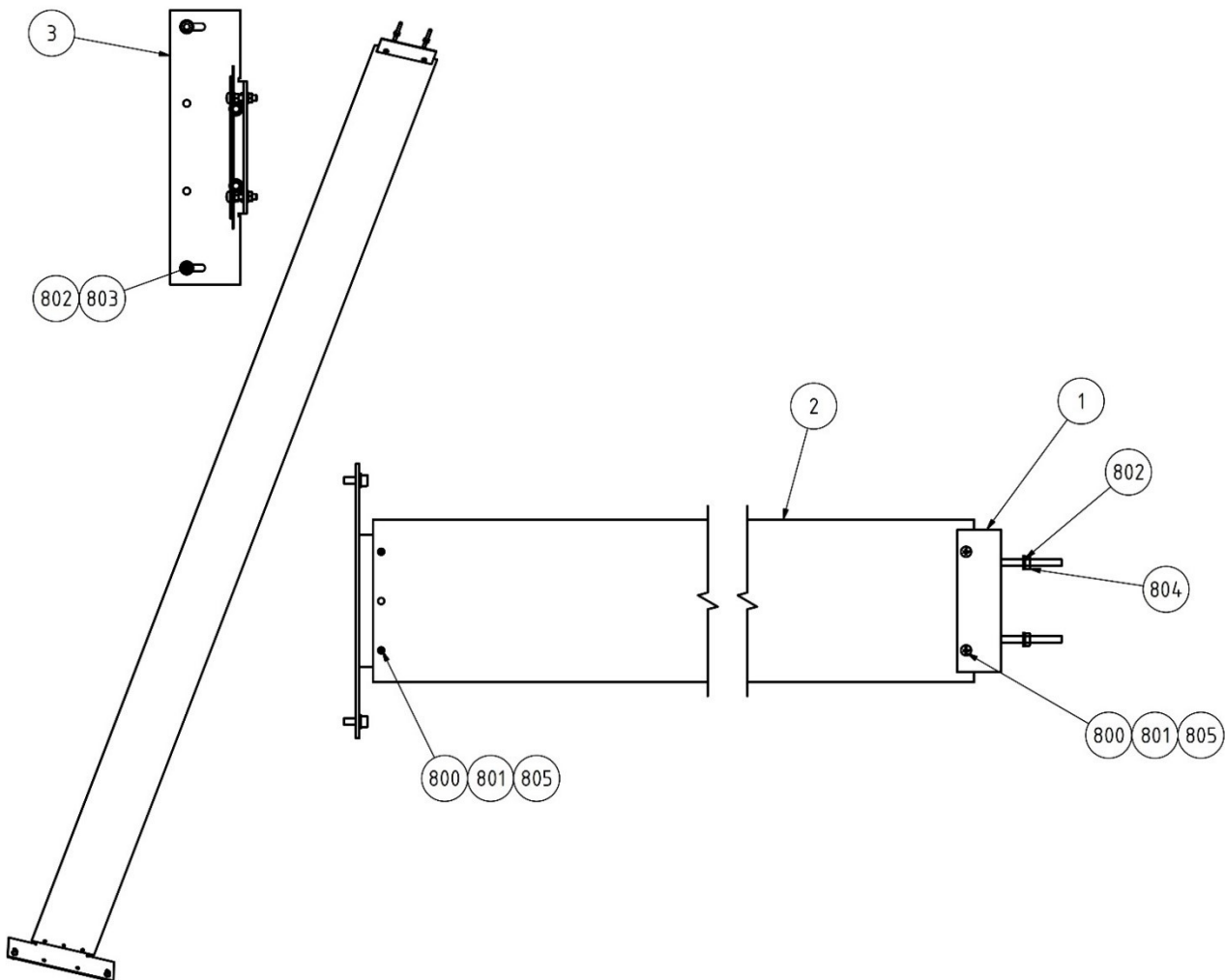
No.	ATH-Nummer	Bezeichnung	Description	X
12001	HSE7871	Schaltkastenabdeckung		1
12002	HSE7861	Grundplatte Schaltkasten		1
12003	HDR4810	Distanzring		4
12500	HKL7130	Signalleuchte 24 VDC		1
12501	HDT7150	Drucktaster 2 x NO		3
12502	HHS7016	Hauptschalter P1-25		1
12503	HSD7910	Einbausteckdose 230V 16A		1
12504	HSD7920	Einbausteckdose 12V 10A		1
12505	HPA8410	Pneumatikanschluss		1
	HSE7872.10	Schaltkasten, komplett (Steuersäule Comfort)		



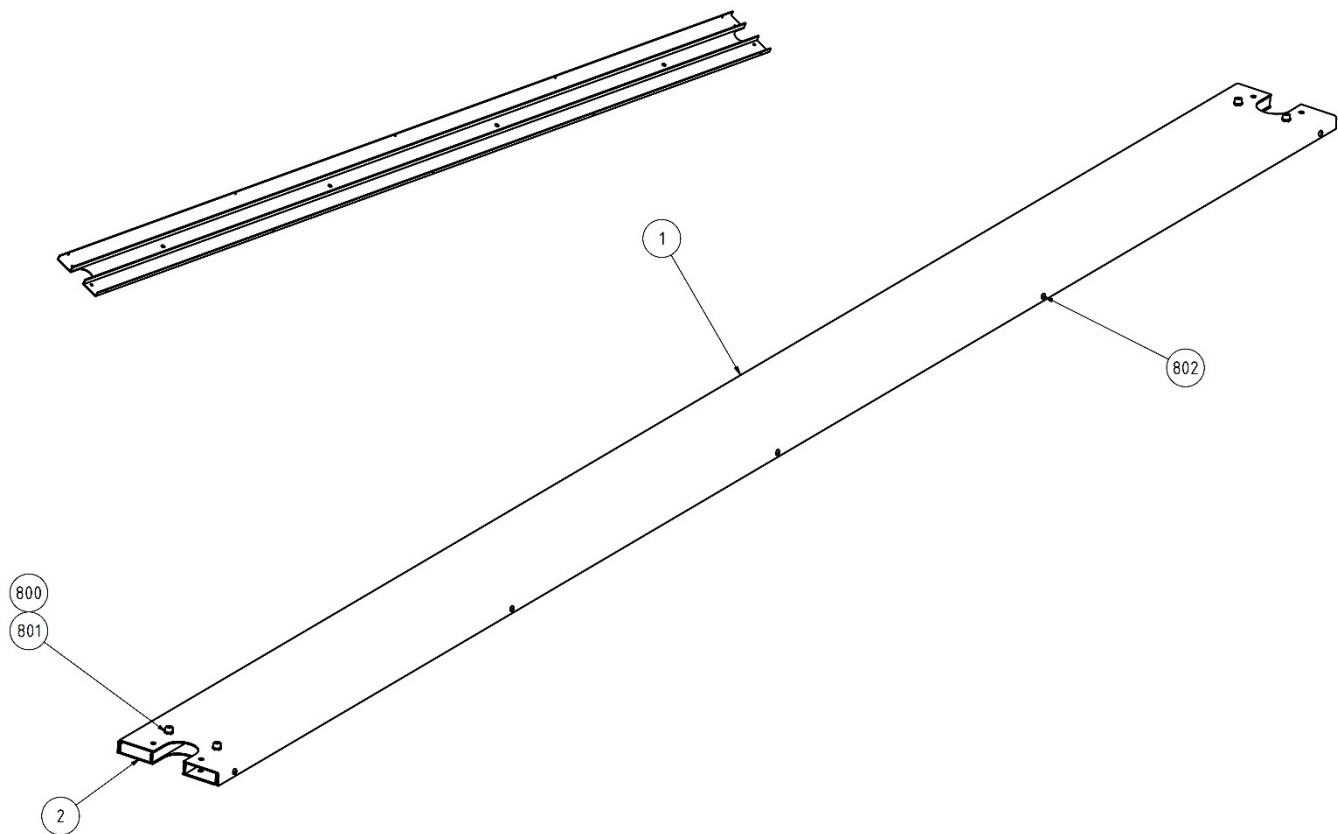
No.	ATH-Nummer	Bezeichnung	Description	X
13001	HSE7871	Schaltkastenabdeckung		1
13002	HSE7861	Grundplatte Schaltkasten		1
13003	HDR4810	Distanzring		4
13500	HKL7130	Signalleuchte 24 VDC		1
13501	HDT7150	Drucktaster 2 x NO		3
13502	HHS7016	Hauptschalter P1-25		1
13503	HSD7910	Einbausteckdose 230V 16A		1
13504	HSD7920	Einbausteckdose 12V 10A		1
13505	HPA8410	Pneumatikanschluss		1
	HSE7872.11	Schaltkasten, komplett (Folgesäule Comfort)		



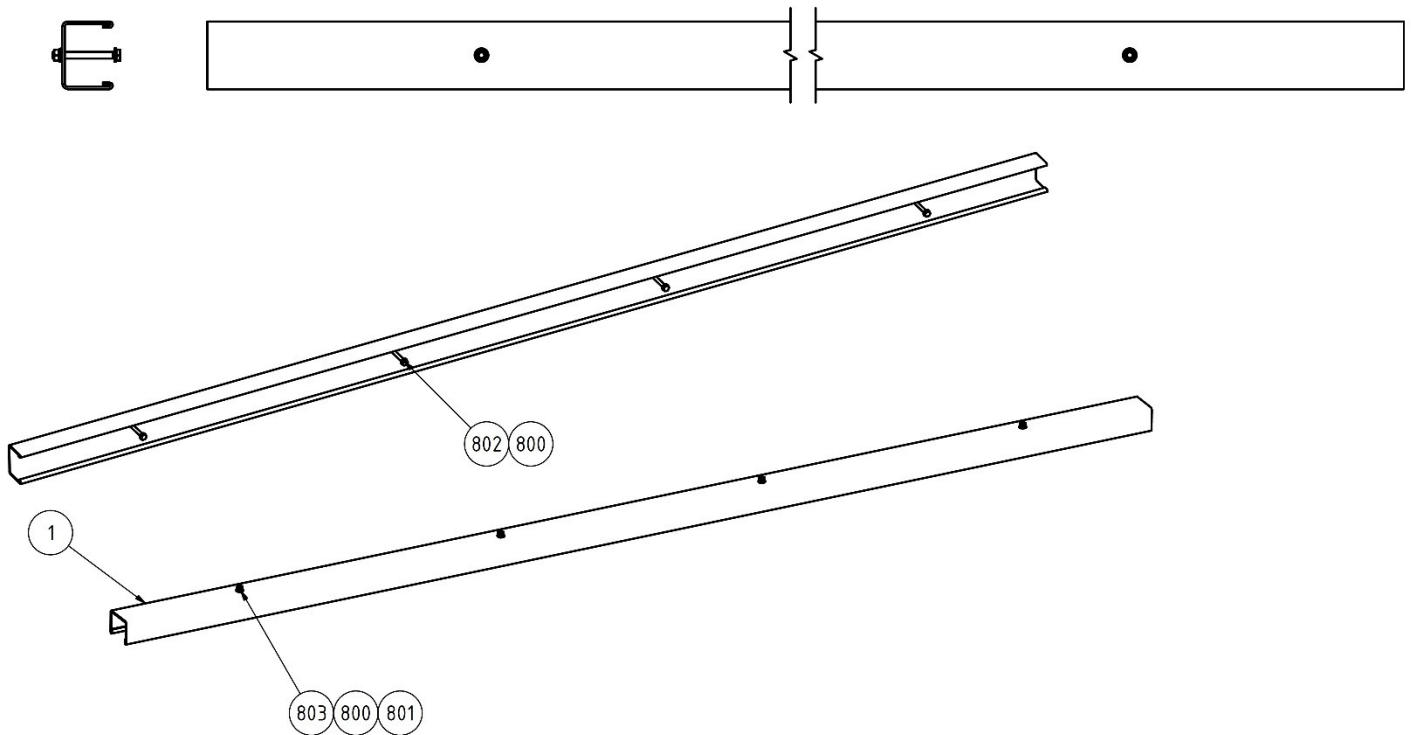
No.	ATH-Nummer	Bezeichnung	Description	X
14001	HSE7861	Grundplatte Schaltkasten		1
14003	HHS8712	Hutschiene		1
14004	HAK7114	Anschlussklemmen		1
14500	HNG7901	Netzgerät 24V		1
14501	HNG7902	Netzgerät 12V		1
14502	HMS7150	Motorschütz		1
14503	HAK7114	Anschlussklemmen Comfort		1
14504	HHS8712	Hutschiene		1
14505	HSR7712	Hilfsrelai		1



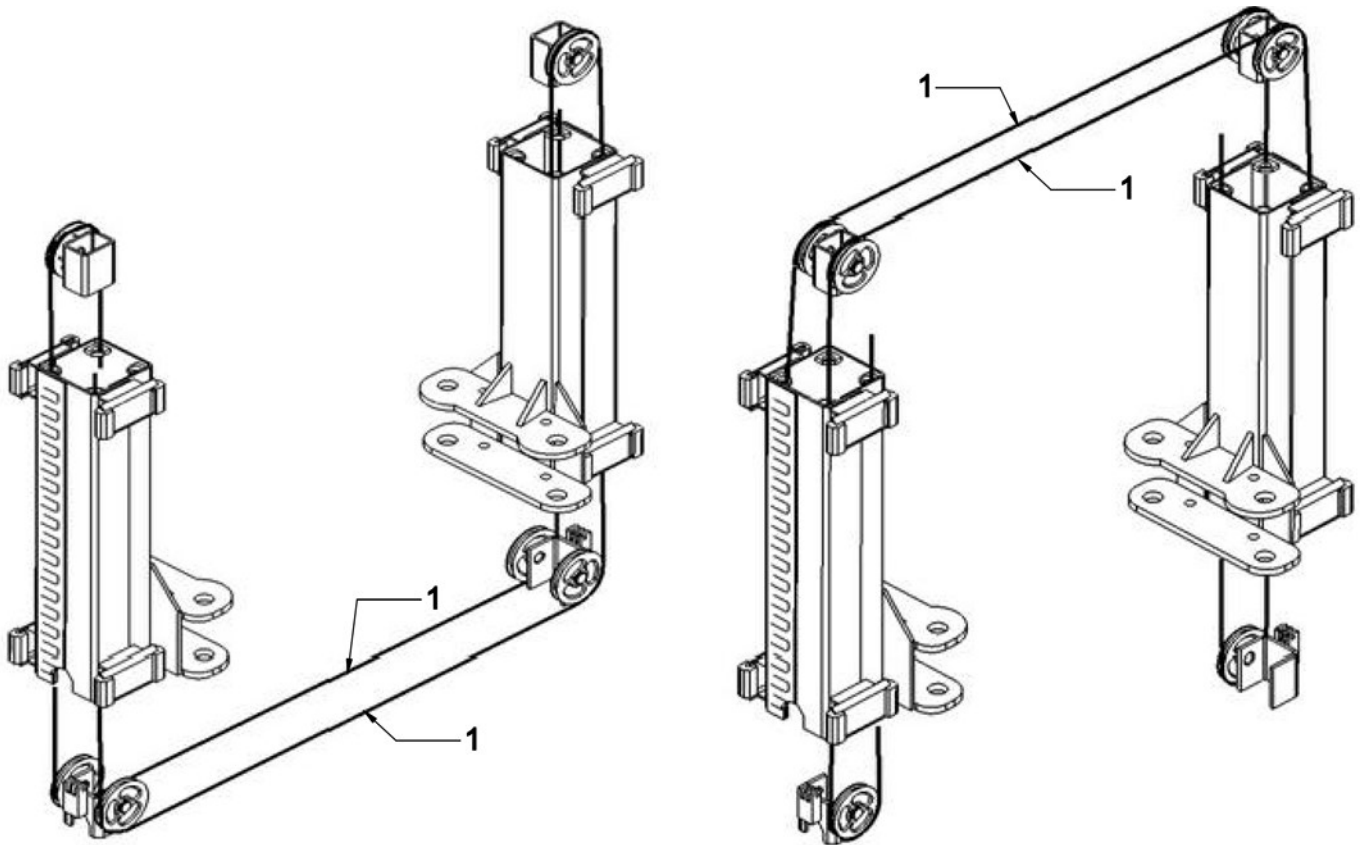
No.	ATH-Nummer	Bezeichnung	Description	X
15001	HSP2010	Bandfixierung		1
15002	HAB2050	Band		1
15003	HBW8112	Winkel Bandbefestigung		1
15800	HFS8102	Flachkopfschraube mit Kreuzschlitz		4
15801	HBS8625	Unterlegscheibe 5,3		4
15802	HBS8622	Unterlegscheibe 6,4		4
15803	HIS2538	Zylinderkopfschraube M6x16		2
15804	HSM8644	Sechskantmutter M6		2
15805	HSM8642	Sechskantmutter M5		4



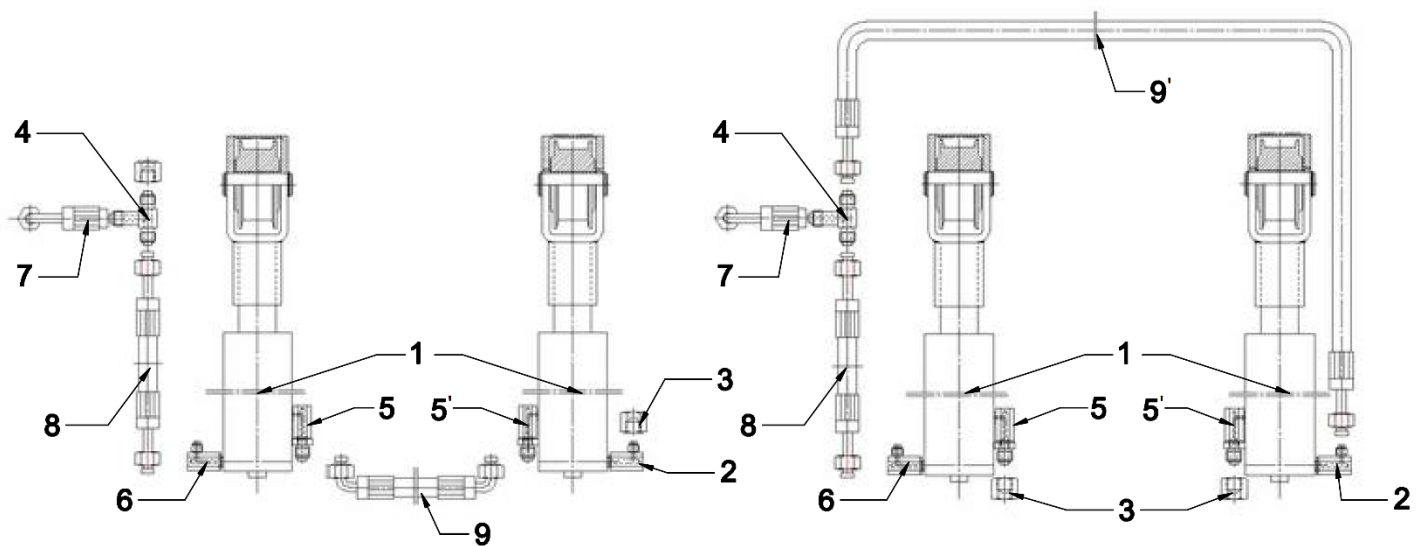
No.	ATH-Nummer	Bezeichnung	Description	X
16001	HÜB2330	Überfahrblech		1
16002	HQT2330	Quertraverse		1
16800	HBS8622	Unterlegscheibe 6,4		4
16801	HIS2522	Zylinderkopfschraube M6x10		4
16802	HBS8902	Innensechskant-Rundkopfschraube M4x8		10



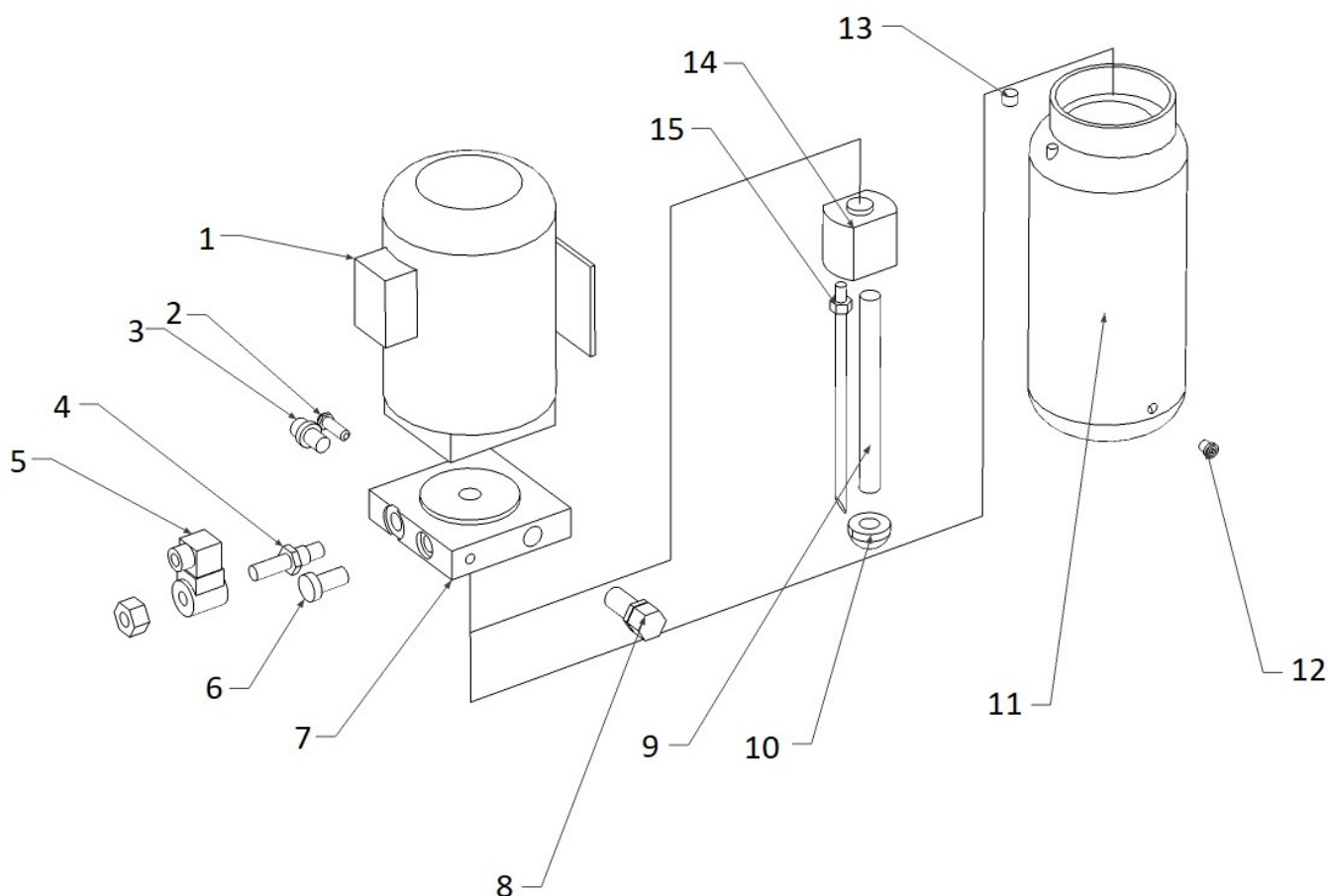
No.	ATH-Nummer	Bezeichnung	Description	X
17001	HVQ2330	Verstärkung Quertraverse		1
17800	HBS8627	Unterlegscheibe		8
17801	HFR8616	Federring		4
17802	HSS8625	Sechskantschraube M8x75		4
17803	HSM8641	Sechskantmutter M8		4



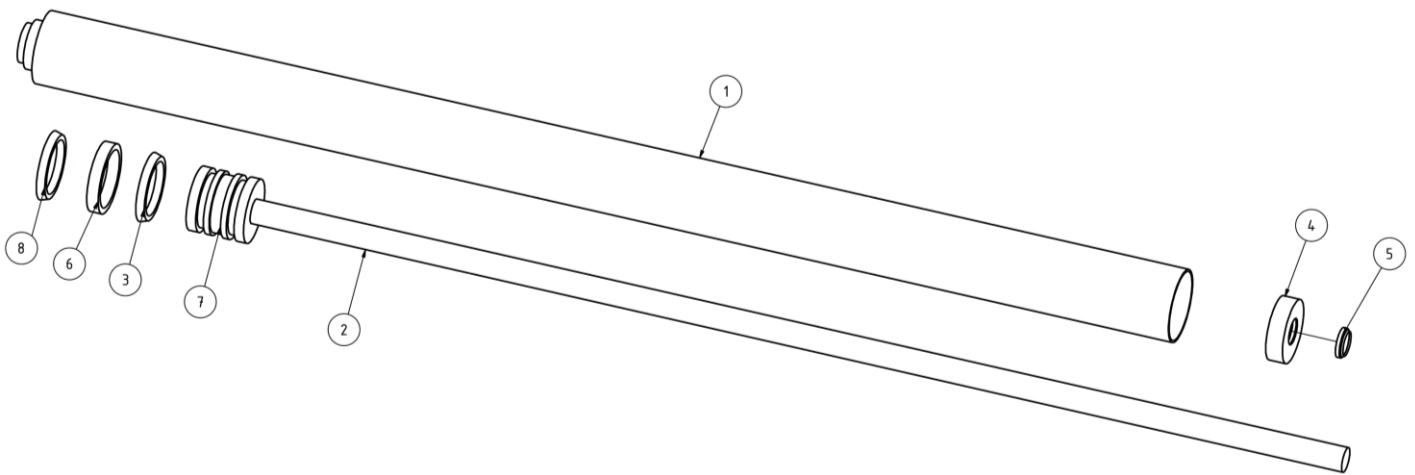
No.	ATH-Nummer	Bezeichnung	Description	X
18001	HAS4540	Ausgleichsseil 8940mm		2
18001	HAS4512	Ausgleichsseil-L 10750mm		2
18001	HAS4514	Ausgleichsseil-X 12150mm		2



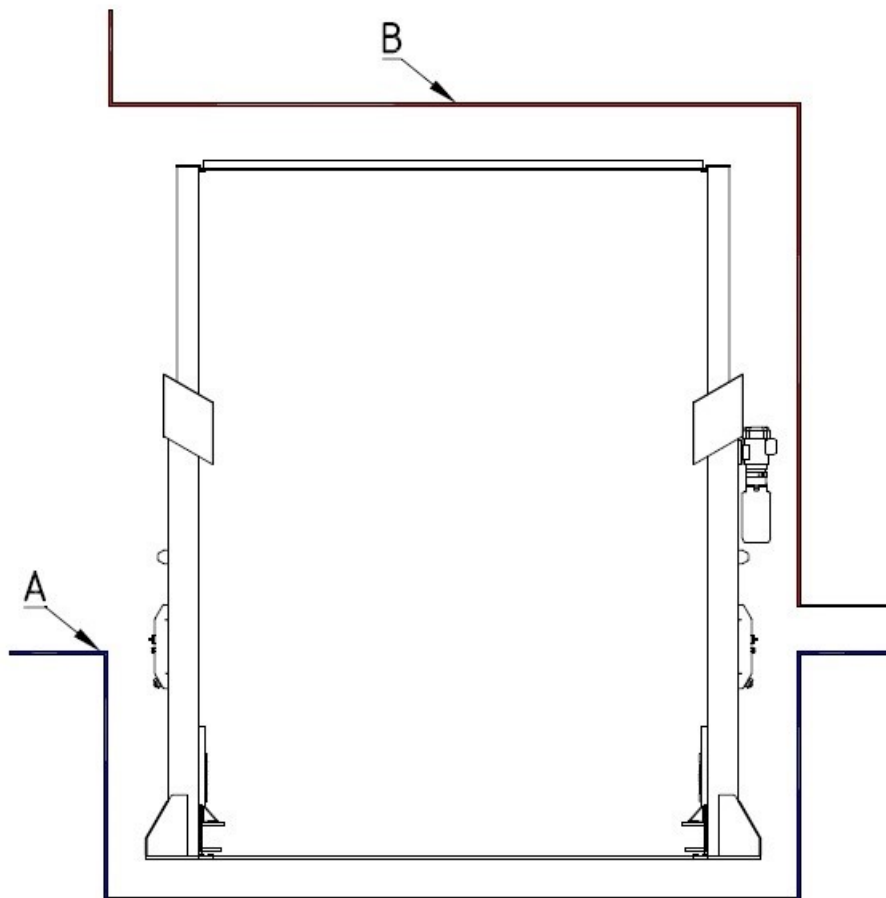
No.	ATH-Nummer	Bezeichnung	Description	X
19001	HHZ6210.01	Zylinder		2
19001'	HHZ6214.10	Zylinder (5.0T)		2
19002	HAZ6413	Anschluss mit Schlauchbruchsicherung 15		1
19003	HBS6412	Blindstopfen		1
19004	HTS6412	T-Verbindungsstück		1
19005	HAZ6414	Anschluss Zylinder		1
19005'	HAZ6414.10	Anschluss Zylinder mit Schlauchbruchsicherung		1
19006	HAZ6413.10	Anschluss Ohne Schlauchbruchsicherung		1
19007	HHS6930	Hydraulikschlauch Motor-Säule L500		1
19008	HHS6932.10	Hydraulikschlauch 2360 Hydraulikschlauch Säule-Zylinder		1
19009	HHS6934.10	Hydraulikschlauch Hydraulikschlauch Zylinder-Zylinder 2840		1
19009'	HHS6932.20	Hydraulikschlauch Hydraulikschlauch Säule-Zylinder „L“ 8000		1
19009'	HHS6932.30	Hydraulikschlauch Hydraulikschlauch Säule-Zylinder „X“ 9400		1



No.	ATH-Nummer	Bezeichnung	Description	X
20001	HEM7410	Motor 400V		1
20001'	HEM7410.10	Motor 230V		1
20002	HAZ6412	Anschluss für Aggregat		1
20003	HVS6224.10	Ventil Senkgeschwindigkeit		1
20004	HTS6412.10	Senkventil mit Notablassschraube		1
20005	HSS6214	Magnetspule für Senkventil		1
20006	HVR6222	Rückschlagventil		1
20007	HHB6225	Hydraulikblock, ohne Ventile		1
20008	HVD6220	Druckbegrenzungsventil		1
20009	HAR6504	Ansaugrohr		1
20010	HOF6212	ÖL-Filter		1
20011	HOT6716	Tank		1
20012	HAS6530	Öl-Ablass-Schraube		1
20013	HTV8324	Tankverschluss mit Ölmesstab		1
20014	HZP8315	Zhanradpumpe		1
20015	HRR6224	Rücklaufrohr		1
	HHA6526	Hydraulik-Aggregat 3 X 400V mit Kunststofftank		1
	HHA6527	Hydraulik-Aggregat 1 X 230V mit Kunststofftank		1



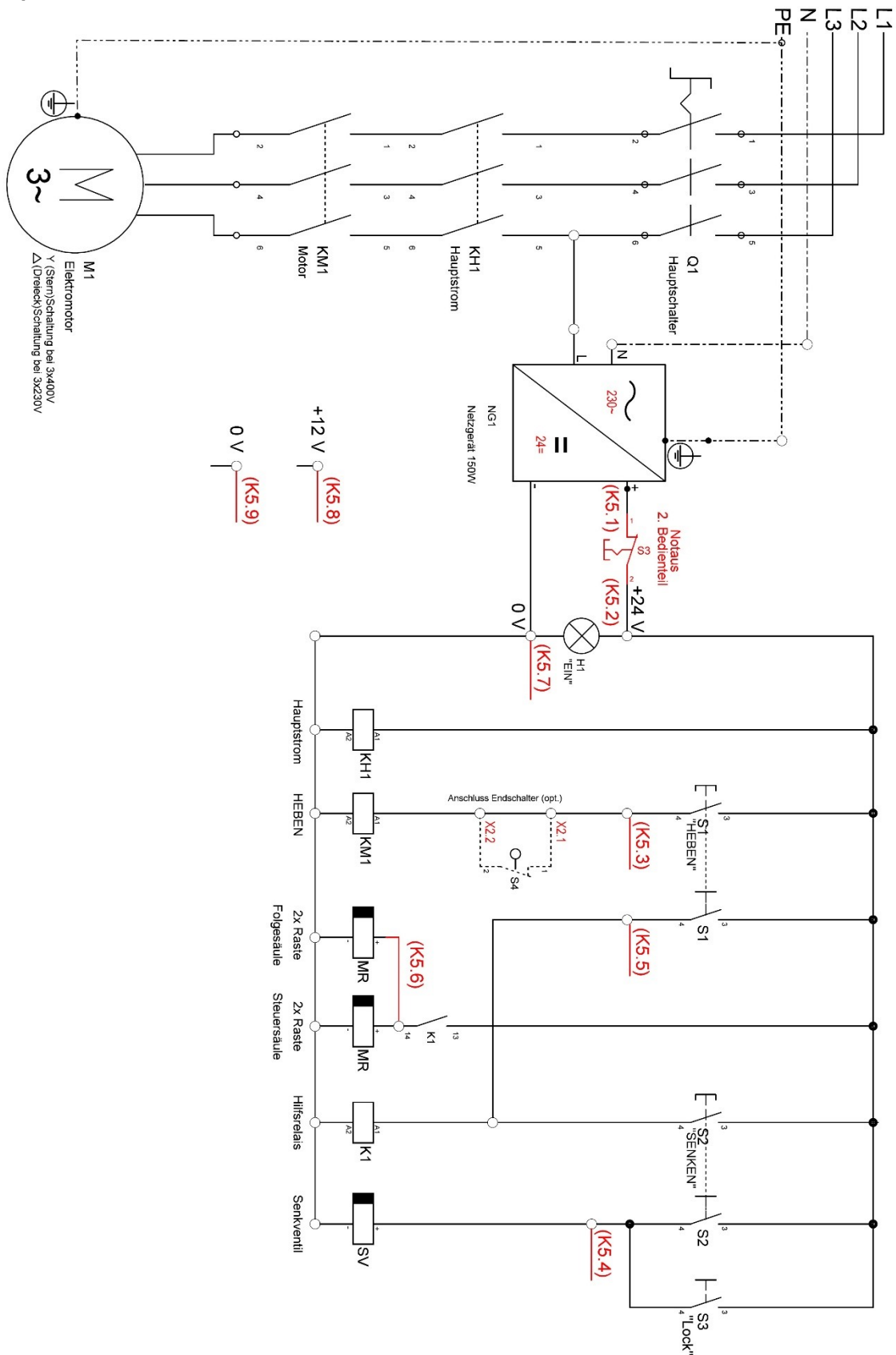
No.	ATH-Nummer	Bezeichnung	Description	X
21001		Zylinderrohr		2
21002		Piston rod		2
21003	HKD6810	Oberer Dichtring		2
21004		Zylinderkappe		2
21005	HAR6319	Schmutzabstreifring		2
21006		Führungsring		2
21007	HHB6225	Kolben		2
21008	HHB6225	Unterer Dichtring		2



No.	ATH-Nummer	Bezeichnung	Description	X
22001	HEK6131	Cabel A 7600mm		1
22002	HEK6131.10	Cabel B „L“ version 2400mm		1
22002'	HEK6131.22	Cabel B „X“ version 3800mm		1

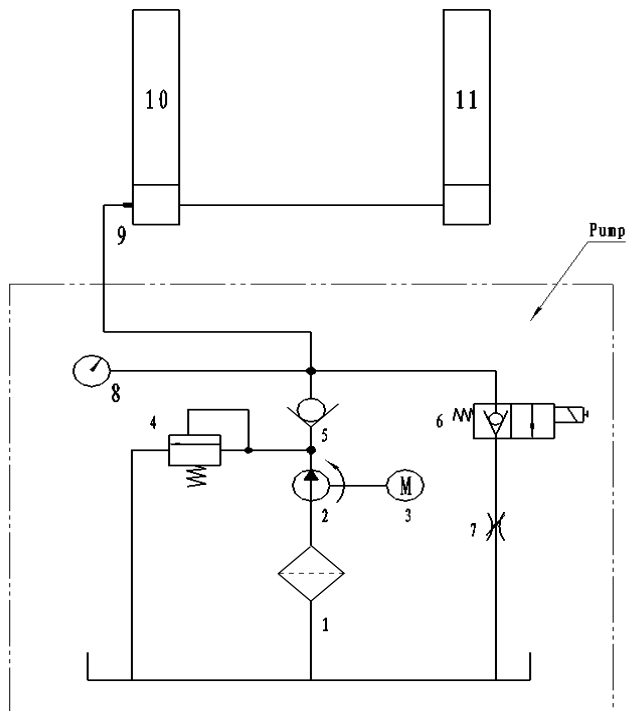
ANHANG

Elektro-Schaltplan 400V

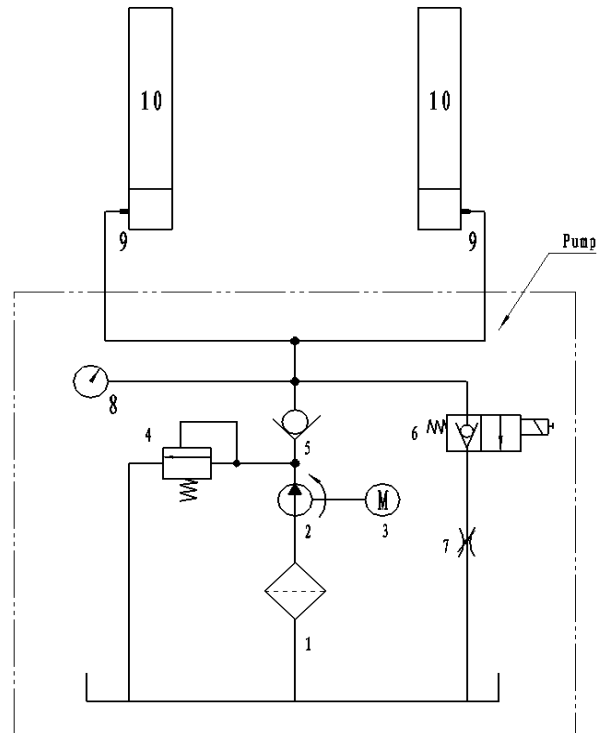


Hydraulik-Schaltplan

H-Version



L & X-Version



1	Filter	2	Zahnradpumpe	3	Motor
4	Druckbegrenzungsventil	5	Rückschlagventil	6	Senkventil
7	Ventil für Senkgeschwindigkeit	8	Manometer (optional)	9	Schlauchbruchsicherung
10/11	Haupt- & Nebenzylinder				

WARRANTY REGISTRATION CARD

Fachhändler Anschrift / Dealer address:

Firma (ggf. Kundennummer) / Company (evtl. Customer Number)

Ansprechpartner / Contact person

Straße / Street:

PLZ & Ort / ZIP code & Town:

Tel. & Fax:

e-Mail:

Kunden Anschrift / Customer address:

Firma (ggf. Kundennummer) / Company (evtl. Customer Number)

Ansprechpartner / Contact person

Straße / Street:

PLZ & Ort / ZIP code & Town:

Tel. & Fax:

e-Mail:

Hersteller & Modell/
Manufacturer & model

Seriennummer /
Serial number

Baujahr /
Year of manufacture

Referenz-Nummer /
Reference number

Beschreibung der Meldung / Description of the message:

Beschreibung der benötigten Ersatzteile / Description of required spare parts:

Ersatzteil / Spare part	Artikelnummer / Article number	Menge / Quantity
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

WICHTIGER HINWEISE / IMPORTANT NOTES:

Schäden, die durch unsachgemäße Handhabung, unterlassene Wartung oder mechanische Beschädigung entstehen, fallen nicht in die Gewährleistung. Für Anlagen, die nicht durch einen zugelassenen Monteur der Fa. ATH montiert wurden, beschränkt sich die Gewährleistung auf die Bereitstellung der erforderlichen Ersatzteile.

Damage caused by improper handling, lack of maintenance or mechanical damage, does not fall into the warranty. For machines that are not installed by a licensed technician from the company ATH, the warranty is limited to the provision of necessary spare parts.

Transportschäden / Damages in transit:

Offener Mangel (Sichtbare Transportschäden, Vermerk auf Lieferschein des Spediteurs, Kopie des Lieferscheins und Fotos umgehend zu ATH-Heinl senden)

Obvious defect (note on carrier's delivery note, a copy of delivery note, Photos of the delivery have to be sent immediately to ATH-Heinl)

Versteckter Mangel (Transportschaden wird erst beim Auspacken der Ware festgestellt, Schadensanzeige mit Bildern innerhalb 24 Stunden an ATH-Heinl senden)

Latent defect (Shipping damage is discovered upon unpacking the goods, send damage report with pictures within 24 hours to ATH-Heinl)

Ort & Datum / Place & date

Unterschrift & Stempel / Sign & stamp

Product warranty

- five years on equipment structure.
- Power units, hydraulic cylinders, and all other assembly components such as turn plates, slip plates, Cables, chains, valves, switches etc. are covered under warranty for one year.
- ATH-Heinl shall repair or replace at their option for the warranty period those parts returned back to our place.

The warranty does not extend to...

- defects caused by ordinary wear, abuse, misuse, shipping damage, improper installation, voltage or lack of required maintenance.
- damages resulting from purchaser's neglect or failure to operate products in accordance with instructions provided in the owner's manual(s) and/or other accompanying instructions supplied
- normal wear items or service normally required to maintain the product in a safe operating condition.
- any component damaged in shipment.
- other items not listed but may be considered general wear parts.
- damage caused by rain, excessive humidity, corrosive environments or other contaminants.
- any cosmetic defect not interfering with equipment functionality

WARRANTY IS NOT VALID UNLESS WARRANTY CARD IS RETURNED

It should be noted that any damage or malfunction caused by failure to comply with the maintenance and adjustments (according to the user's manual and/or training) faulty electrical connections (rotating field, nominal voltage, hedging) or improper use (over load, outdoor installation, technical changes) the guarantee is not applicable.



ATH-Heinl

CHECKING BOOK
Car Lift



4500 kg

**This checking book is an important part of the user's manual respectively the lift.
!!! READ AND RETAIN CAREFULLY!!!**

CHECKING

The lift must be checked after finishing the installation and then regularly by a suitable and authorized company or institution according to the guilty instructions and legal regulations in the country of installation.

By changes or extensions of the lifts type have to conduct and accepted an additional checking book.

Checking scope



Besides the correct operation above all the security relevant devices of the lift have to be checked.

Technical data

- Refer to the included user's manual.

Type label

- Fill in all the following information
- Manufacturer & type of the used anchor bolts: _____
- Manufacturer & type of the used hydraulic oil: _____

	ATH-Heinl GmbH & Co.KG Germany		
Typ / Type Serien / Serial Jahr / Year	<div style="border: 1px solid black; height: 30px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 30px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 30px;"></div>	Volt Ph Hz Amp kW	<div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 20px;"></div>
Made by ATH-Heinl			

Protocol of Installation/Handover certificate

Location:

Company: _____
 Street: _____
 Town: _____
 Country: _____

2 post lift:

Producer: _____
 Type/Model: _____
 Serial n°. : _____
 Year of production: _____

The above lift was installed, checked for function and security and it was put into operation.
 The installation was performed by:

- The operator The expert / assembly operator

The operator confirms the correct installation of the lift, have to read and follow all the information of this manual and checking book and keep accessible at all the times this manual.

The expert / assembly operator confirms the correct installation of the lift, have to read and follow all the information of this manual and checking book, hand over all relevant information and documentation and all the operators have been properly instructed.

The operators confirm after installing and initial operation by a trained assembly operator of the manufacturer or an authorized dealer (specialist) that it has been training in the using of the equipment.

Name and company stamp of the expert / assembly operator	Date and signature of the expert / assembly operator
--	--

Name and company stamp of the operator	Date and signature of the operator
--	------------------------------------

Name of the operator	Date and signature of the operator
----------------------	------------------------------------

Name of the operator	Date and signature of the operator
----------------------	------------------------------------

Name of the operator	Date and signature of the operator
----------------------	------------------------------------

Name of the operator	Date and signature of the operator
----------------------	------------------------------------

Visual examination (VBG14/BGR500)

Manufacturer & type: _____

Serial Number: _____

- Startup
- Periodical examination
- Re-examination

on: _____
on: _____
on: _____

Kind of check:

	All Right	Defect missing	Veri- fication	Remark
Type plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Load and type label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Quick start instruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
User's manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Warning symbols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Labeling operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Construction (deformation, cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition concrete floor (cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition electrical wires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Main switch lockable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function the locking catches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the screws, bolts and bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the lifting arms and pads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function lifting arms restraint system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function feet-protectors or CE-Stop switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function of the end switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the carriage, cylinder and chain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function Hydraulic system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the synchronization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function test with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts (after 5 lifting procedures with vehicle) controlling and tightening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
General condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Placed inspection plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until repairing
- No failings, Initiation possible

Name and company stamp of the expert / assembly operator

Date and signature of the expert / assembly operator

Name and company stamp of the operator

Date and signature of the operator



The operator by signing of the form confirms that the floor meet the needed requirements

Visual examination (VBG14/BGR500)

Manufacturer & type: _____

Serial Number: _____

- Startup
- Periodical examination
- Re-examination

on: _____
on: _____
on: _____

Kind of check:

	All Right	Defect missing	Veri- fication	Remark
Type plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Load and type label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Quick start instruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
User's manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Warning symbols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Labeling operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Construction (deformation, cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition concrete floor (cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition electrical wires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Main switch lockable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function the locking catches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the screws, bolts and bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the lifting arms and pads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function lifting arms restraint system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function feet-protectors or CE-Stop switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function of the end switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the carriage, cylinder and chain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function Hydraulic system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the synchronization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function test with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts (after 5 lifting procedures with vehicle) controlling and tightening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
General condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Placed inspection plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until repairing
- No failings, Initiation possible

Name and company stamp of the expert / assembly operator

Date and signature of the expert / assembly operator

Name and company stamp of the operator

Date and signature of the operator



The operator by signing of the form confirms that the floor meet the needed requirements

Visual examination (VBG14/BGR500)

Manufacturer & type: _____

Serial Number: _____

- Startup
- Periodical examination
- Re-examination

- on: _____
- on: _____
- on: _____

Kind of check:	All Right	Defect missing	Veri-fication	Remark
Type plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Load and type label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Quick start instruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
User's manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Warning symbols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Labeling operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Construction (deformation, cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition concrete floor (cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition electrical wires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Main switch lockable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function the locking catches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the screws, bolts and bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the lifting arms and pads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function lifting arms restraint system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function feet-protectors or CE-Stop switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function of the end switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the carriage, cylinder and chain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function Hydraulic system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the synchronization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function test with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts (after 5 lifting procedures with vehicle) controlling and tightening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
General condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Placed inspection plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until repairing
- No failings, Initiation possible

Name and company stamp of the expert / assembly operator

Date and signature of the expert / assembly operator

Name and company stamp of the operator

Date and signature of the operator



The operator by signing of the form confirms that the floor meet the needed requirements

Visual examination (VBG14/BGR500)

Manufacturer & type: _____

Serial Number: _____

- Startup
- Periodical examination
- Re-examination

on: _____
on: _____
on: _____

Kind of check:

	All Right	Defect missing	Veri-fication	Remark
Type plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Load and type label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Quick start instruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
User's manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Warning symbols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Labeling operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Construction (deformation, cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition concrete floor (cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition electrical wires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Main switch lockable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function the locking catches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the screws, bolts and bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the lifting arms and pads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function lifting arms restraint system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function feet-protectors or CE-Stop switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function of the end switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the carriage, cylinder and chain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function Hydraulic system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the synchronization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function test with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts (after 5 lifting procedures with vehicle) controlling and tightening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
General condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Placed inspection plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until repairing
- No failings, Initiation possible

Name and company stamp of the expert / assembly operator

Date and signature of the expert / assembly operator

Name and company stamp of the operator

Date and signature of the operator



The operator by signing of the form confirms that the floor meet the needed requirements

Visual examination (VBG14/BGR500)

Manufacturer & type: _____

Serial Number: _____

- Startup
- Periodical examination
- Re-examination

- on: _____
- on: _____
- on: _____

Kind of check:	All Right	Defect missing	Veri- fication	Remark
Type plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Load and type label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Quick start instruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
User's manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Warning symbols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Labeling operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Construction (deformation, cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition concrete floor (cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition electrical wires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Main switch lockable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function the locking catches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the screws, bolts and bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the lifting arms and pads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function lifting arms restraint system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function feet-protectors or CE-Stop switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function of the end switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the carriage, cylinder and chain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function Hydraulic system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the synchronization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function test with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts (after 5 lifting procedures with vehicle) controlling and tightening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
General condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Placed inspection plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until repairing
- No failings, Initiation possible

Name and company stamp of the expert / assembly operator

Date and signature of the expert / assembly operator

Name and company stamp of the operator

Date and signature of the operator



The operator by signing of the form confirms that the floor meet the needed requirements

Visual examination (VBG14/BGR500)

Manufacturer & type: _____

Serial Number: _____

- Startup
- Periodical examination
- Re-examination

on: _____
on: _____
on: _____

Kind of check:

	All Right	Defect missing	Veri- fication	Remark
Type plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Load and type label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Quick start instruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
User's manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Warning symbols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Labeling operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Construction (deformation, cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition concrete floor (cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition electrical wires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Main switch lockable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function the locking catches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the screws, bolts and bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the lifting arms and pads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function lifting arms restraint system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function feet-protectors or CE-Stop switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function of the end switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the carriage, cylinder and chain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function Hydraulic system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the synchronization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function test with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts (after 5 lifting procedures with vehicle) controlling and tightening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
General condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Placed inspection plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until repairing
- No failings, Initiation possible

Name and company stamp of the expert / assembly operator

Date and signature of the expert / assembly operator

Name and company stamp of the operator

Date and signature of the operator



The operator by signing of the form confirms that the floor meet the needed requirements

Visual examination (VBG14/BGR500)

Manufacturer & type: _____

Serial Number: _____

- Startup
- Periodical examination
- Re-examination

- on: _____
- on: _____
- on: _____

Kind of check:	All Right	Defect missing	Veri- fication	Remark
Type plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Load and type label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Quick start instruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
User's manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Warning symbols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Labeling operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Construction (deformation, cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition concrete floor (cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition electrical wires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Main switch lockable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function the locking catches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the screws, bolts and bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the lifting arms and pads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function lifting arms restraint system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function feet-protectors or CE-Stop switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function of the end switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the carriage, cylinder and chain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function Hydraulic system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the synchronization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function test with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts (after 5 lifting procedures with vehicle) controlling and tightening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
General condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Placed inspection plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until repairing
- No failings, Initiation possible

Name and company stamp of the expert / assembly operator

Date and signature of the expert / assembly operator

Name and company stamp of the operator

Date and signature of the operator



The operator by signing of the form confirms that the floor meet the needed requirements

Visual examination (VBG14/BGR500)

Manufacturer & type: _____

Serial Number: _____

- Startup
- Periodical examination
- Re-examination

on: _____
on: _____
on: _____

Kind of check:

	All Right	Defect missing	Veri- fication	Remark
Type plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Load and type label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Quick start instruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
User's manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Warning symbols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Labeling operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Construction (deformation, cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition concrete floor (cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition electrical wires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Main switch lockable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function the locking catches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the screws, bolts and bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the lifting arms and pads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function lifting arms restraint system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function feet-protectors or CE-Stop switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function of the end switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the carriage, cylinder and chain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function Hydraulic system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the synchronization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function test with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts (after 5 lifting procedures with vehicle) controlling and tightening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
General condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Placed inspection plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until repairing
- No failings, Initiation possible

Name and company stamp of the expert / assembly operator

Date and signature of the expert / assembly operator

Name and company stamp of the operator

Date and signature of the operator



The operator by signing of the form confirms that the floor meet the needed requirements

Visual examination (VBG14/BGR500)

Manufacturer & type: _____

Serial Number: _____

- Startup
- Periodical examination
- Re-examination

on: _____
on: _____
on: _____

Kind of check:

	All Right	Defect missing	Veri- fication	Remark
Type plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Load and type label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Quick start instruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
User's manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Warning symbols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Labeling operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Construction (deformation, cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition concrete floor (cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition electrical wires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Main switch lockable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function the locking catches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the screws, bolts and bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the lifting arms and pads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function lifting arms restraint system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function feet-protectors or CE-Stop switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function of the end switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the carriage, cylinder and chain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function Hydraulic system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the synchronization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function test with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts (after 5 lifting procedures with vehicle) controlling and tightening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
General condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Placed inspection plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until repairing
- No failings, Initiation possible

Name and company stamp of the expert / assembly operator

Date and signature of the expert / assembly operator

Name and company stamp of the operator

Date and signature of the operator



The operator by signing of the form confirms that the floor meet the needed requirements

Visual examination (VBG14/BGR500)

Manufacturer & type: _____

Serial Number: _____

- Startup
- Periodical examination
- Re-examination

- on: _____
- on: _____
- on: _____

Kind of check:	All Right	Defect missing	Veri- fication	Remark
Type plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Load and type label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Quick start instruction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
User's manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Warning symbols	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Labeling operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Construction (deformation, cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition concrete floor (cracking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition electrical wires	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Main switch lockable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function the locking catches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the screws, bolts and bearings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the lifting arms and pads	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function lifting arms restraint system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function feet-protectors or CE-Stop switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function of the end switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the carriage, cylinder and chain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function Hydraulic system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition/ function of the synchronization	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Condition of the covers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Function test with vehicle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Torque of anchoring bolts (after 5 lifting procedures with vehicle) controlling and tightening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
General condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Placed inspection plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Result of the Check:

- Initiation not permitted, verification necessary
- Initiation possible, repair failures until repairing
- No failings, Initiation possible

Name and company stamp of the expert / assembly operator

Date and signature of the expert / assembly operator

Name and company stamp of the operator

Date and signature of the operator



The operator by signing of the form confirms that the floor meet the needed requirements

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