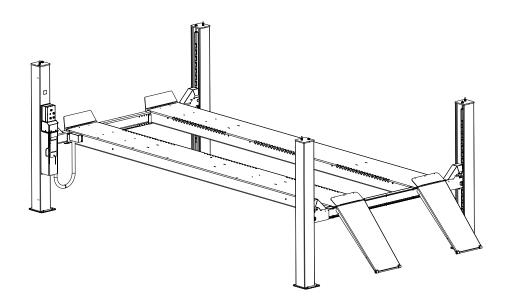


COMBILIFT

COMBI LIFT 4.80 H



OPERATING INSTRUCTION AND DOCUMENTATION

Valid from: 04/2022

Serial No.:







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Foreword

Nußbaum lifting systems are the result of over 25 years experience in the automotive lifting industry.

The high quality and the superior concept ensure reliability, a long lift lifetime and above all and economic business solution.

To avoid unnecessary damage, injury or even death, read the operating instructions with care and observe the contents.

Nußbaum lifts is not responsible for incidents involving the use of Nußbaum lifting systems for applications other than those for which they were designed.

Nussbaum Automotive Lifts GmbH is not liable for any resulting damages. The user carries the risk alone.

Obligations of the user:

- To observe and adhere to the operating instructions.
- To follow the recommended inspection and maintenance procedures and carry out the prescribed tests.
- The operating instructions must be observed by all persons working with or around the lift.
- Above all chapter 4 "Safety Regulations" is very important and must be closely adhered to.
- In addition to the safety regulations stated in the operating instructions manual, the appropriate safety regulations and the operating procedures of the place of operation must also be considered.

Obligations of the operator:

The operator is obliged to allow only those persons complying to the following requirements to work with or around the unit.

- Persons being familiar with the basic regulations concerning labour safety and accident prevention and being trained to operate the particular unit.
- Persons having read and understood the chapter concerning safety and warning symbols
- Persons using the lift are required to confirm that they have read and understood the chapter on safety and warning symbols by signing the appropriate form.

Dangers when operating the lift:

Nußbaum-Lifts are designed and built according to technical standards and the approved regulations for technical safety. The use of Nußbaum lifts for purposes other than those for which they were designed, may result in injury or even death.

The lift must only be operated:

- For its appropriate use
- In faultless condition concerning technical security.

Organisational Requirements

- The instructions for use are to be kept at the place of operation being easily accessible at any time.
- In addition to the instructions for use, rules pertaining to other regulations i.e. accident prevention and environmental rules are to be observed and adhered to.
- The owner of the Nußbaum lifting system must ensure that operators and persons working with or around the lift occasionally conduct "refresher" courses to ensure that the appropriate operating procedures and safety precautions are known.
- Personal Protective Equipment (PPE) must be used according to the appropriate regulations.
- All safety- and danger signs on and around the lift are to be observed and followed!
- Spare parts must comply with the technical requirements specified by the manufacturer. This is only warranted with original parts.
- Observe and adhere to the specified time intervals between tests and inspections.

Maintenance works, repairing faults

- Adjustments, maintenance, and inspections, are to be followed according to the time intervals specified. Details regarding the exchange of parts and components as mentioned in the operating instructions are to be adhered to.
 - These works must only be carried out by expert personal.
- After maintenance- and repair works loose screws, nuts and bolts must always be firmly tightened!

Guarantee and liability

- Our "General conditions of selling and delivering" are in force.
 There will be no guarantee or liability for incidents involving injuries or death or damage to equipment if these incidents are the result of one or more of the following reasons.
- Inappropriate use of the lift
- Inappropriate installation, initiation, operation and maintenance of the lift.
- Use of the lift while one or several security devices do not work, do not work correctly or are not installed correctly.
- Failure to follow the regulations of the operating instructions regarding transport, storage, installation, initiation, operation and maintenance of the lift.
- Unauthorized changes to the structure of the lift without first asking the producer.
- Unauthorized changes of adjustments of important components of the lift (e.g. driving elements, power rating, motor speed, etc)
- Wrong or incorrect maintenance practice.
- Catastrophes, acts of God or external reasons.



After completely filling out this sheet including signatures, copy and return the original to the manufacturer. The copy must remain in the manual..

Nussbaum Automotive Lifts GmbH Korker str. 24 D-77694 Kehl-Bodersweier

Record of installation

The automotive lift 4.80 H wi	th the		
serial number:		was installed on:	
at the firm:		at:	
The initial safety check was of the installation was carried of the initial safety check was of the operating authority confidence of the correct in the correct in the correct in the initial safety check was of the initial	out by the oper carried out by a firms the correct initial operation	rating authority/comp a competent person let installation of the a	pefore the initial operation. utomotive lift, the competent
date		rating authority	signature of the operating authority
date	name of the com		signature of the competent person
Your customer service:		(stamp)	

Record of handing over

The automotive lift 4.80 H wi	ith the		
serial number:		was installed on:	
at the firm:		at:	
the safety was checked and	the lift was sta	rted.	
The persons below were intr	oduced after th	ne installation of the	automotive lift. The introduc-
tion was carried out by eithe	r the erector fro	om the lift-manufactu	rer or from a franchised
dealer (competent person).			
date	name		signature
date	name of compete	ent	signature of the competent
Your customer service:		(stamp)	
		(Starrip)	

1 General Information

The document "Operating Instructions and Documentation" contains important information about installation, operation and maintenance of the automotive lift.

- Conformation of **installation of the automotive lift** is recorded on the "Record of Installation" form and must be signed and returned to the manufacturer.
- Conformation of once of, regular and out of the ordinary service checks is recorded in the respective check forms. The forms are used to document the checks. They should not be removed from the manual.

All **Changes to the structure** and any change of **location** of the automotive lift must be registered in the **"Master document"** of the lift

1.1 Installation and service checks of the automotive lift

Only specialised staff are allowed to repair and maintain the lift and only these specialised staff are allowed to conduct safety checks on the lift. For the purposes of this document these specialised staff will be called Experts and Competent persons.

Experts are persons (for example self-employed engineers, experts) which have received instructions and have the appropriate experience to check and to test the automotive lifts. They are aware of the work involved and know the accident prevention regulations.

Competent persons are persons who have acquired adequate knowledge and experience with automotive lifts. They have completed the appropriate training provided by the lift-manufacturer (the servicing technicians of the manufacturer or dealer, are regarded as competent)

1.2 Warning Symbols

The three symbols below are used to indicate danger and other important information. Pay attention to areas on and around the lift that are marked with these symbols.



Danger! This sign indicates danger. Ignoring this warning may result in injury or even death.



Caution! This sign cautions against possible damage to the automotive lift or other material objects in the case of improper use .



Attention! This sign indicates an important function or other important information regarding the operation of the lift.

2 Master document of the automotive lift

2.1 Lift-manufacturer

Nussbaum Automotive Lifts GmbH Korker Str. 24 D-77694 Kehl-Bodersweier

2.2 Application

The automotive lift 4.80 H is a lifting mechanism for lifting motor vehicles with a laden weight of up to 8000 kg . The max. load distribution is 2:1 either in or against the drive-on direction.

The automotive lift has been designed for servicing vehicles only. It has not been designed to carry people. Carrying people either directly on the lift or in vehicles that are on the lift is therefore not allowed.

The installation of the standard lift in hazardous or dangerous locations such as wash bays is dangerous and is therefore not allowed.

Changes of construction, repairing and changes of place must be registered in this master document.

2.3 Changes at the construction

Changes at the construction, expert chec change, signature of the expert)	king, resumption of work (date, kind of
Name, address of the expert	
place, date	signature of the expert
	·
2.4 Displacement of the automotive-lif	it .
of change, signature of the competent)	rt checking, resumption of work (date, kind
name, address of the competent	
place, date	signature of the competent

2.5 Declaration of Conformity

EG- Konformitätserklärung



gemäß Maschinenrichtlinie Anhang II 1A

Declaration of Conformity according Machinery Directive 2006/42/EG ANNEX II 1A Déclaration de conformité selon directive machines annexe II 1A Declaración de conformidad según Directiva Maquinaria 2006/42/EG ANNEX II 1A Dichiarazione di conformità in accordo alla direttiva 2006/42/EG ANNEX II 1A

Hiermit erklären wir, daß die Hebebühne, Modell: Hereby we declare that the lift model: Par la présente nous déclarons que le pont élévateur modèle: Por la presente declara, que el elevador modelo: Con la presente si dichiara che il sollevatore:

COMBI LIFT 4.80 H

allen einschlägigen Bestimmungen der folgenden Richtlinien entspricht:

fulfils all the relevant provisions of the following Directives: correspond aux normes suivantes: cumple todas las disposiciones pertinentes de las Directivas siguientes: adempie a tutte le richieste delle seguenti direttive:

Maschinenrichtlinie / Machinery Directive EMV Richtlinie / EMC Directive Niederspannungsrchtlinie / Low Voltage Directive 2006/42/EG 2014/30/EU 2014/35/EU

in Übereinstimmung mit den folgenden harmonisierten Normen gefertigt wurde

was manufactured in conformity with the harmonized norms fabriqué en conformité selon les normes harmonisées en vigueurs. producido de acuerdo a las siguientes normas armonizadas è stato fabbricato in conformità con le norme armonizzate

Fahrzeug- Hebebühnen / Vehicle lifts

EN 1493: 2010

Beauftragter für die Technische Dokumentation Authorised to compile the technical file

Nussbaum Automotive Lifts GmbH

Baujahr

Year of manufacture

20_

Seriennummer

Serial number

Seriennummer

Kehl- Bodersweier, 05.04.2022

Masspan

Nussbaum Automotive Lifts GmbH | Korker Straße 24 | 77694 Kehl-Bodersweier



3 Technical Information

3.1 Technical ratings

Capacity: 8000 kg

Load distribution max. 2:1 in or against the drive on direction

Lifting time: approx. 49 sec.
Lowering time approx. 47 sec.
Lifting height: max. 1800 mm
Line voltage 3 x 400 Volt , 50Hz

Power rating 3,0 kW

Motor speed: 2800 rotation/min

Pump capacity 4,2 cm³/rotation

Hydraulic pressure approx.210 bar

Pressure control valve approx. 240 bar

Oil Tank approx. 14 Litre

Sound level $L_{pA} \le 70 \text{ dB}$

Connection by customer 3~/N+PE, 400V, 50 Hz

fuse T16A (time-lag fuse) observe your state regulations

3.2 Safety device

1. Safety ratchet

Safety device against unintentional lowering.

2. Holding valve

Safety device against unintentional lowering.

3. Pressure relief valve

Overpressure safety of the hydraulic system

3. Lockable main switch

Safety device against unauthorised operation

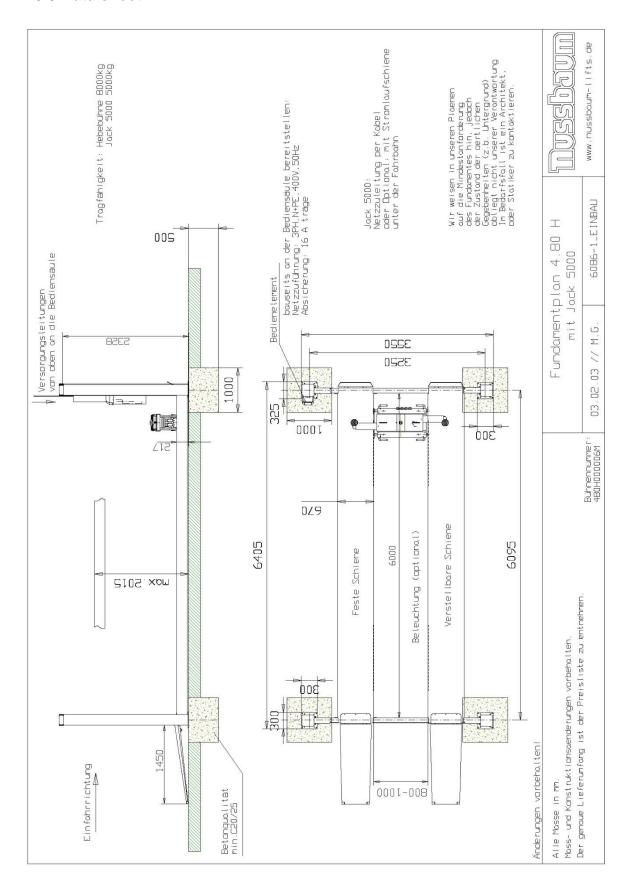
4. Safety device at the platform against rolling.

Safety device against falling down, in case the hand brake is not fasten.

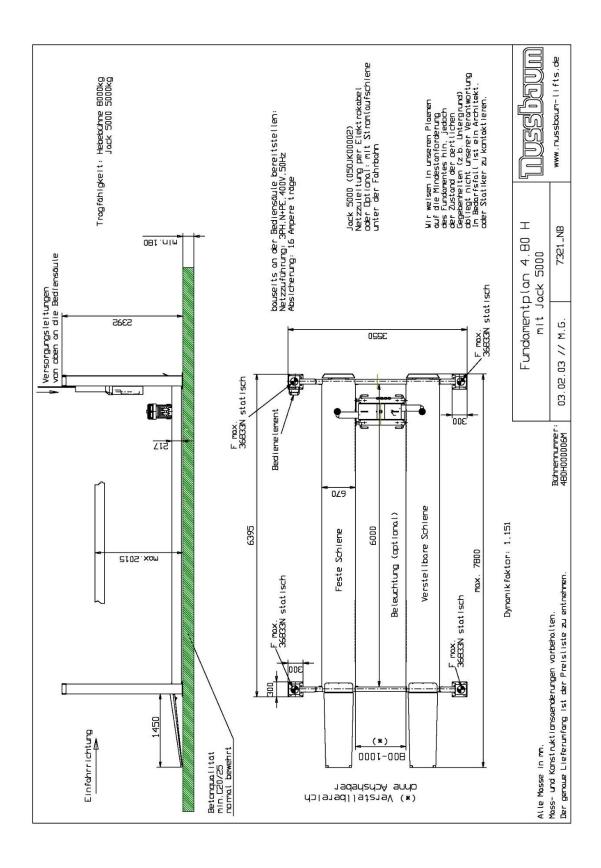
5. CE-Stop

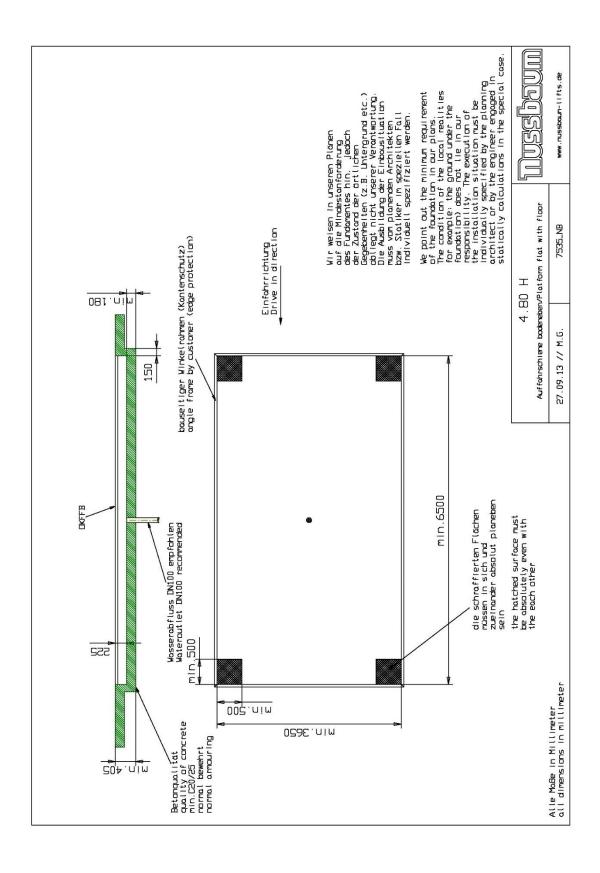
Safety device against squeeze.

3.3 Data sheet

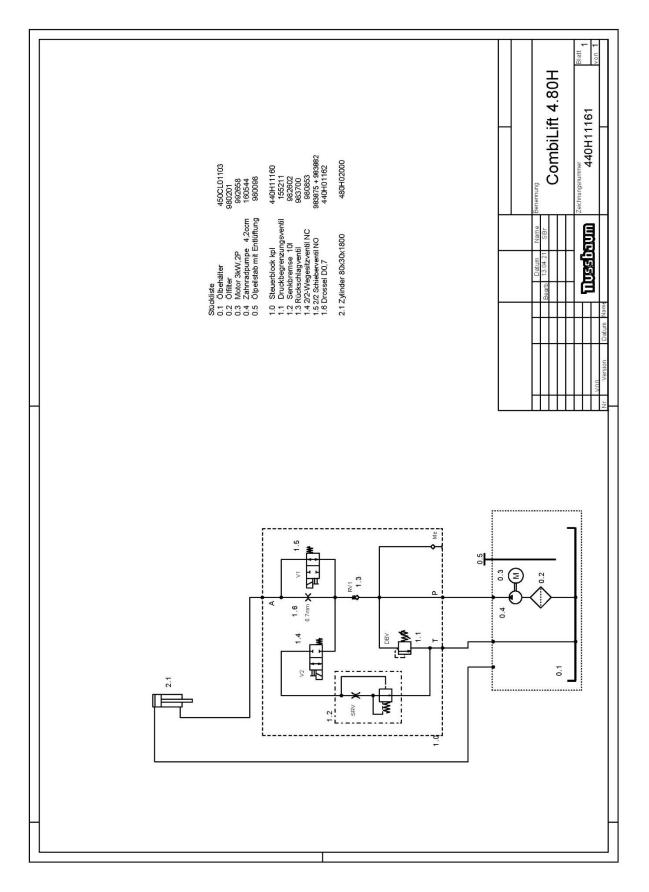


3.4 Foundation diagram drawing

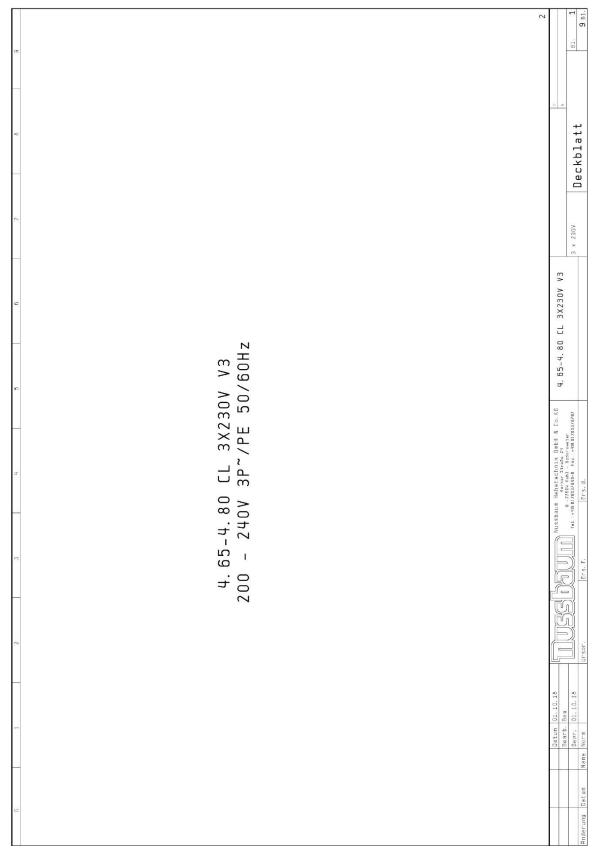


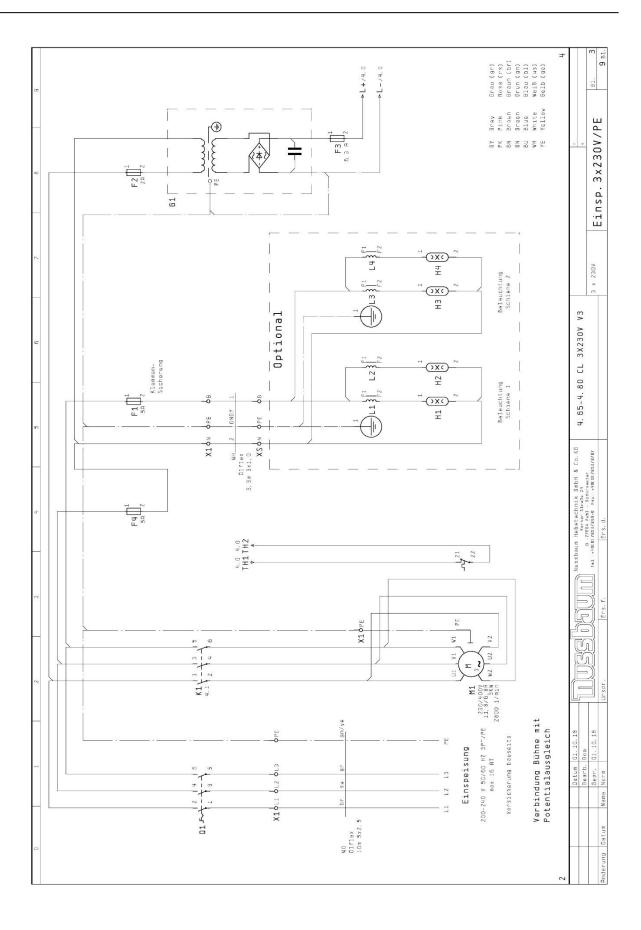


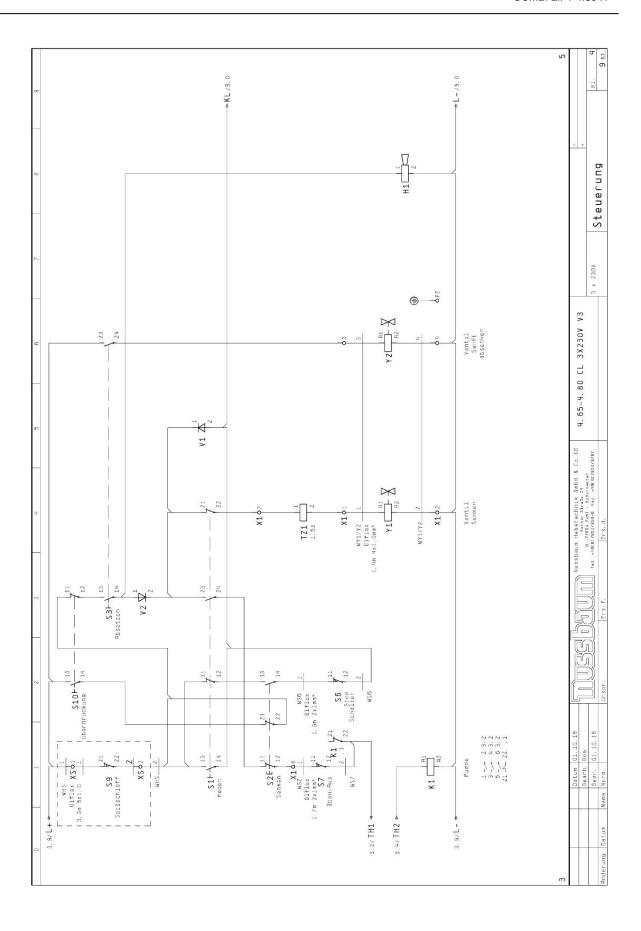
3.5 Hydraulik diagram drawing

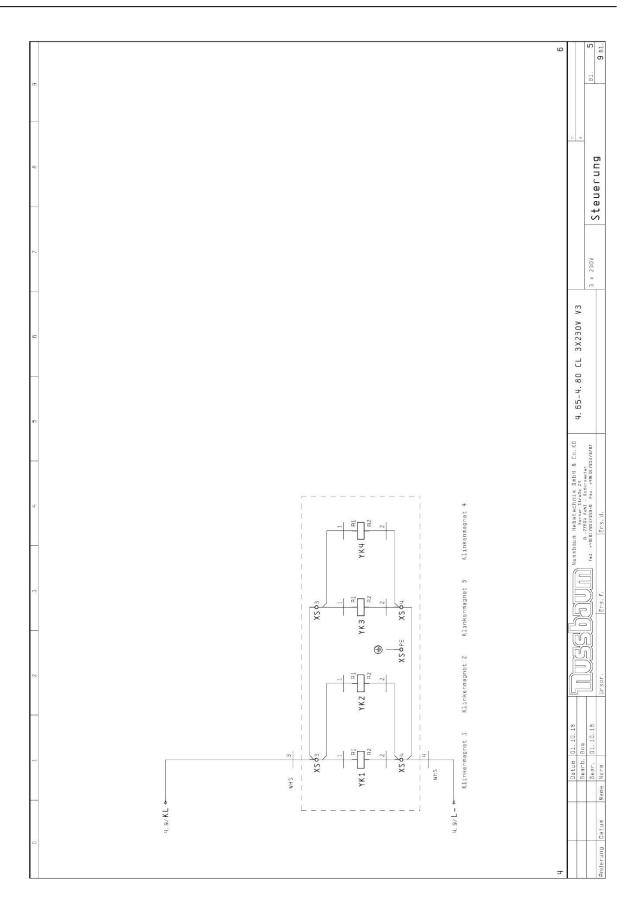


3.6 Electrical diagram 3x230 V

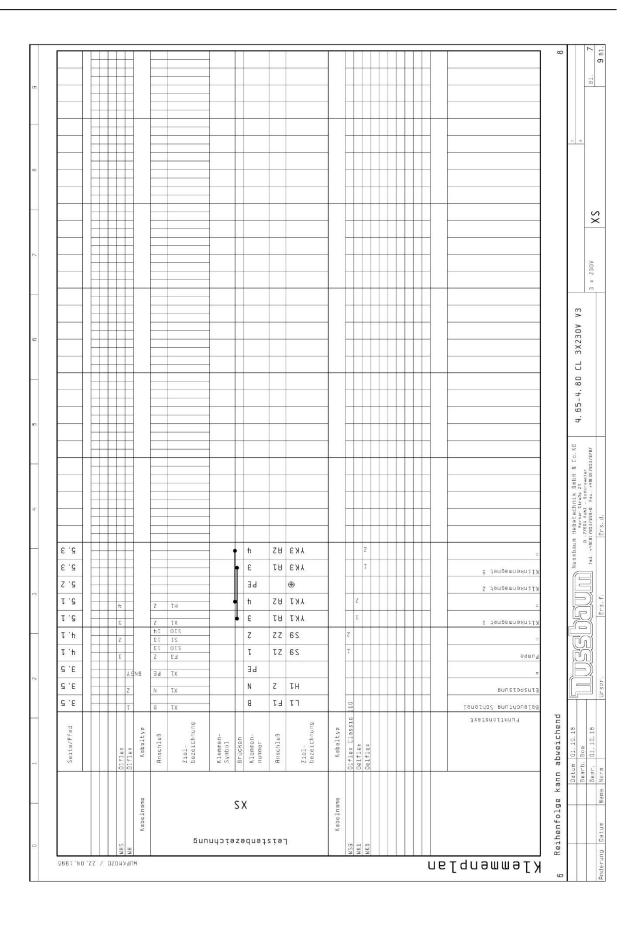








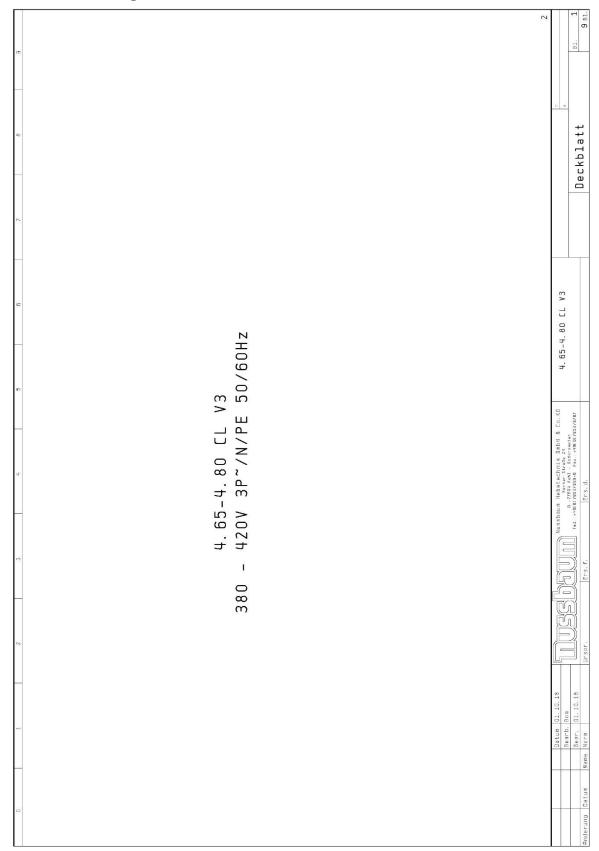
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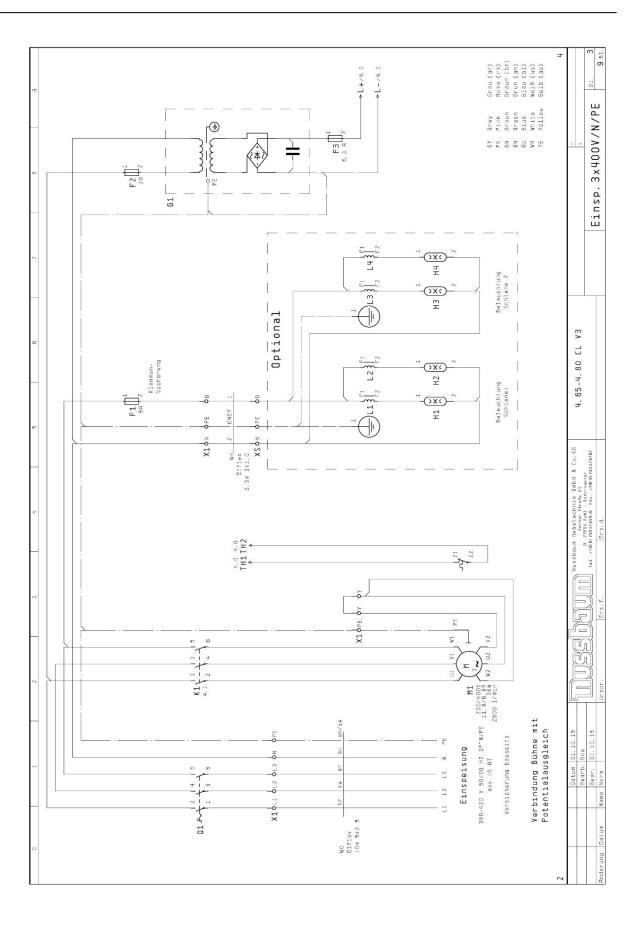
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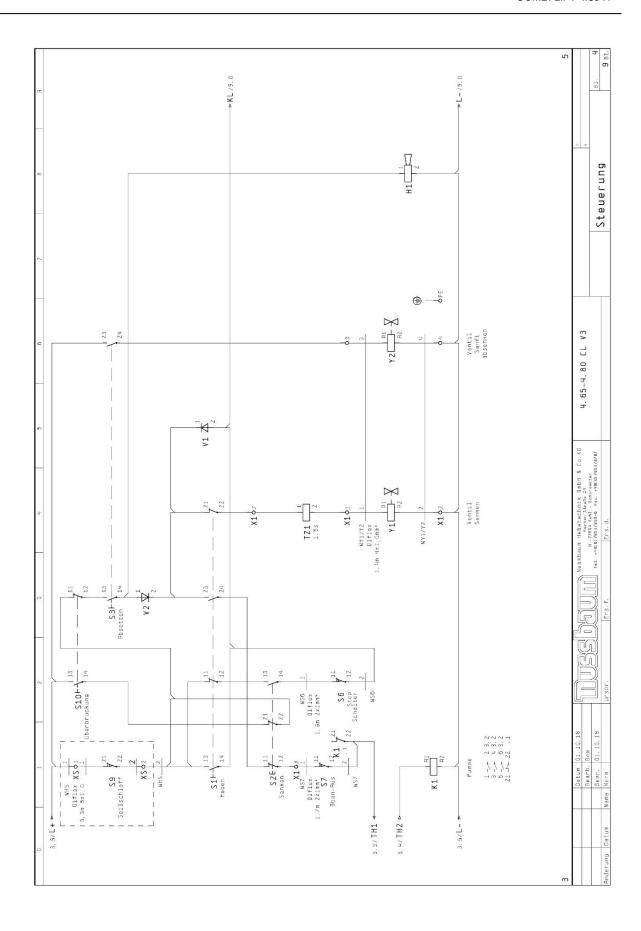
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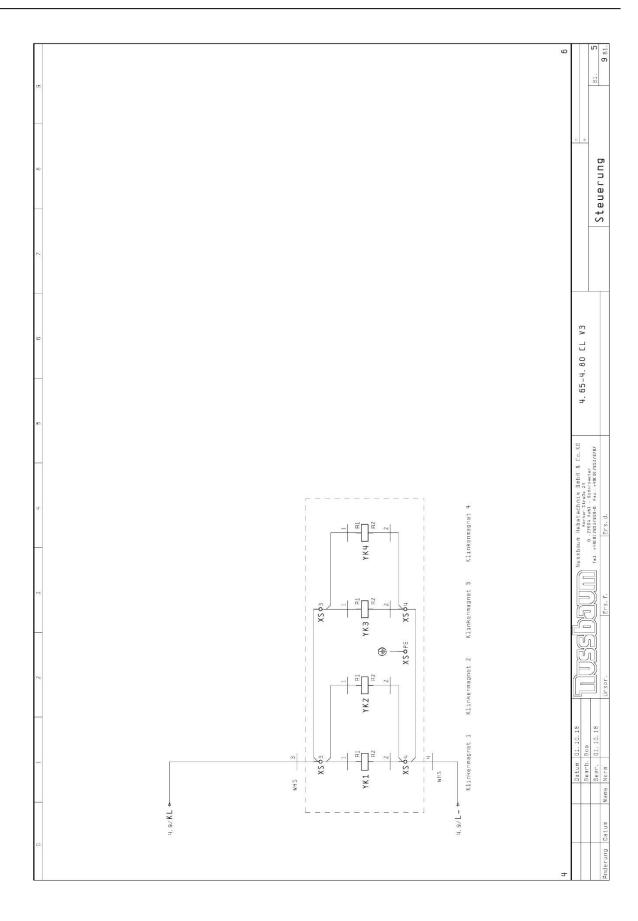
3.7 Electrical diagram 3x400 V

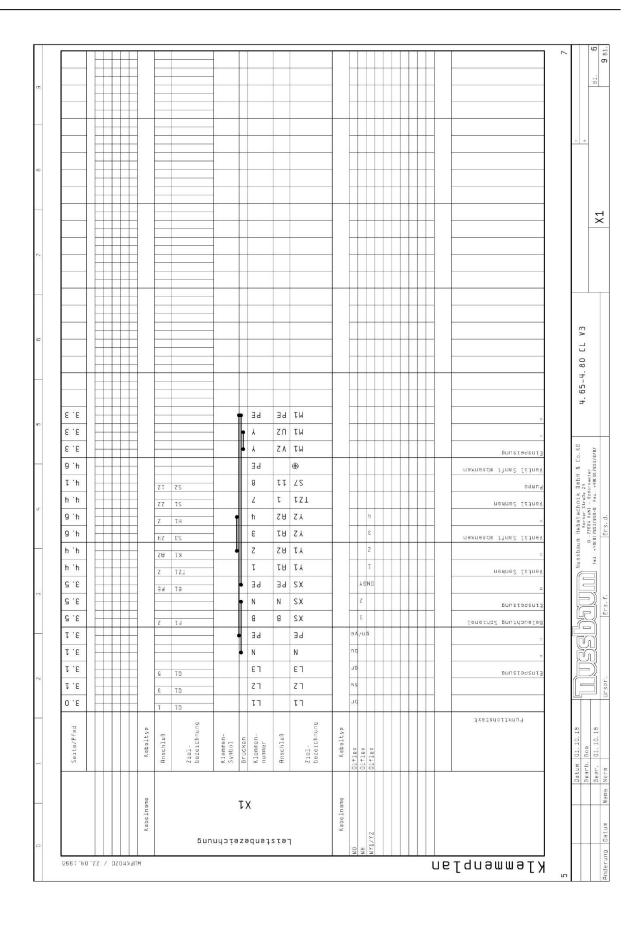


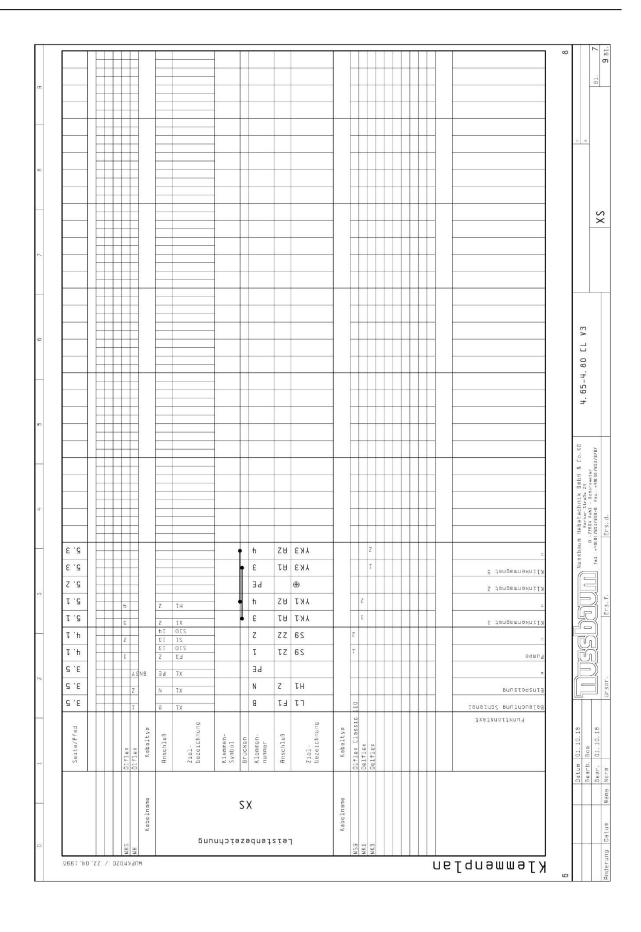
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4 Safety regulations

If you use the automotive lift, the German following regulations are to be considered: BGG945: Examine of automotive-lifts; BGR500 Using automotive-lifts; (VBG14).

Especially the following regulations are very important:

- The laden weight of the lifted vehicle must not exceed 8000 kg for the automotive lift. Load distribution max. 2:1 in or against the drive on direction.
- The automotive lift must be in its lowest position (fully collapsed), before the vehicle can be driving on to the lift. Only then can the vehicle be lifted.
- While working with the lift the operating instructions must be followed.
- Vehicles with low clearance or vehicles that are specially equipped should be pre tested to ensure that they clear the lift ramp to avoid damage.
- Only trained personnel over the age of 18 years old are to operate this lift.
- · No one is to stand within the working area (danger area) during lifting and lowering
- No one is to be raised or lowed either directly or in a vehicle by the automotive lift.
- No one is to climb onto the automotive lift or onto an already raised vehicle.
- The automotive column lift must be checked by an expert after changes in the construction have been made.
- The main switch must be switched off and locked before work on the vehicle can commence. This is a safety precaution to ensure that the lift does not move during work.
- The main switch must be switched off and locked before any maintenance or repair work on the automotive lift itself can be carried out.
- During lifting or lowering the operator must observe the vehicle to ensure that the vehicle and the lift are functioning correctly.
- Installation of the standard-mobile column lift in hazardous or dangerous locations such as washing bays is dangerous and is not allowed.

5 Operating Instructions



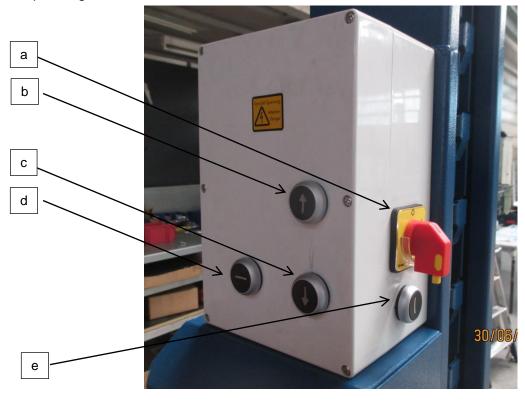
When handling the system, it must absolutely comply with safety regulations. Carefully read the safety regulations in chapter 4 before first operation!



To prevent operation by unauthorized people, secure the main switch (a).

5.1 Operating element

· Main operating elements



- a) Main switch
- b) ↑ LIFT
- c) ↓ LOWER
- d) Lower into catches
- e) Bridging button

5.2 Positioning the vehicle

- The lift must be completely lowered before the vehicle is driven on, and it may only be done in the intended direction.
- Drive the vehicle over the drive rails lengthwise and cross-wise in the centre.
- For vehicles with low floor clearance or custom equipment, check whether it could be damaged before driving onto the lift.
- Secure the vehicle against rolling, pull the hand brake, engage the gears.



The entire contact area of each wheel must be completely on the drive-in rails, otherwise there is a danger of falling!

5.3 Platform illumination (optional)

There are four lamps integrated on the interior side of the drive rails to give equal illumination of the work area.

The illumination is switched on via the main switch (11) of the platform.

5.4 Lifting the vehicle

During the entire lifting or lowering process, the work area of the lift should be clear of people and objects.

Afterwards, lift the vehicle to the desired working height.



Absolutely ensure secure vehicle placement on the drive-in rails, otherwise there is a danger of the vehicle falling.

Switch on controls at the main switch (a).

Lift the vehicle. Push the ↑ "LIFT" button (b).

Raise the vehicle to the desired working height.

The entire lifting process must be continuously observed.

5.5 Set down into the safety ratchets

- Pushing the "Lower into catches" button (d) sets the lift down into the next possible catches.
- Keep the "Lower into catches" button (d) until all four safety ratchets are latched in and the lift can no longer move downwards.



Before working on the vehicle always lower the lift into the safety ratchets.

5.6 Lift out of the safety ratchets



Check the hazardous area around the platform and ensure that there are no people or objects in the immediate vicinity of, or on, the platform.

Push the ↑ "LIFT" (b) button until the catches are released.

5.7 Lowering the vehicle



Check that there are no people or objects in the hazardous area of the lift.

- Push the ↓ "LOWER" button (c) to start the lowering process.
- The lift moves approx. 10 cm upwards to release the 4 safety ratchets which are then electrically retracted.
- Lower the lift to the desired position.
- The entire lowering process must be continuously observed.
- Shortly before reaching the lowest position the lift automatically switches off to prevent crushing in the foot area (CE stop).
- Thereafter the ↓ "LOWER" button (c) must be pushed again. An acoustic warning signal sounds during lowering until the floor is reached.
- Once the vehicle is at the lowest position it can be driven off the lift.

5.8 Safety switch below the drive rail

The lift has a safety switch (4) fitted below the drive-in rails used to monitor the cables. This triggers if,

- a cable breaks
- · the lift moves onto an obstacle and the cable loosens
- only one safety ratchet has a catch latched in and the cable is loose.



The lift then remains in place with no functionality.

5.9 Adjusting the platform

- It is possible to adjust the rail of the different wheelbase. That is necessary to reach the different wheelbases of the vehicles. One platform is only movable without load. The measure 850-1150 mm between the platform can be reached.
- Remove the load and raise the lift on approx.1000 mm height. The platform is movable into the chosen position without high force.

6 Troubleshooting

If the lift does not work properly, the reason might be quite simple. Please check the lift for the potential reasons mentioned on the following pages. If the cause of trouble still cannot be found, please call technical service. Self-employer repair-working is prohibited.

Problem: Motor does not start!						
Potential causes:	solution:					
No power supply	Check the power supply					
Main switch is not engaged	Check the main switch					
The main switch is defective	Check the main switch					
The main fuse defective	Check Fuse					
The feed line is cut	Check the complete cable					
Thermal switch in the motor is active	Let motor cool down					
Motor is defective	Call technical service					

Problem: Motor starts, lift does not lift!					
Potential causes:	solution:				
The vehicle is too heavy	unload the vehicle				
Level of the oil is too low	check the oil level, fill with hy-				
	draulic oil as required				
The ball valve is defective	Call technical service				
Hydraulic valve is defective	Call technical service				
Gear pump is defective	Call technical service				
Problem: the lift does not lower!					
Potential causes:	solution:				
An obstacle is restricting the lift from being lowered	(see chapter 6.1)				
The ball valve is defective	Call technical service				
Fuse is defective	Check the fuse				
The ratchets are locked of defective	Call technical service				
Wrong sequence when operation	See chapter 5				
No feedback from the ratchet switch	Call technical service				

6.1 Lowering onto an obstacle

If the lift moves onto an obstacle during lowering, or remains stuck with the safety catches in the catch bar, a cable loosens. A safety switch (5) located below the drive-in rail is activated and the lift switches off. In this case, move the lift upwards by pushing the "Bridge"

(16) and the o "LIFT" (12) buttons on the operating panel until the obstacle can be removed or the cable is tensioned again.

Afterwards the lift is in a normal work condition and can continue to be operated as described in the operating manual.

6.2 Emergency lowering



An emergency lowering is an engagement into the system controls and may only be done by experienced specialists.

The emergency lowering must be done in the following described sequence, otherwise it can lead to damage and hazard to life and limb.



Any kind of external leakage is not permitted and must immediately taken care of. This is absolutely necessary especially before an emergency lowering.

- If there is a power failure an emergency lowering can only be done if the safety ratchets are not engaged. For this reason wait until the power failure is over. If there is a defective valve, a latched in lift can be slightly lifted by pushing the † "LIFT" button (b) so the catches (j) can be manually retracted.
 - · People may not stand in the hazardous area around the lift.
 - The safety ratchets must be capable of being manually retracted in order to fasten them using a suitable object (e.g. wire) against latching in.

In order to execute the emergency lowering the following tools are required:

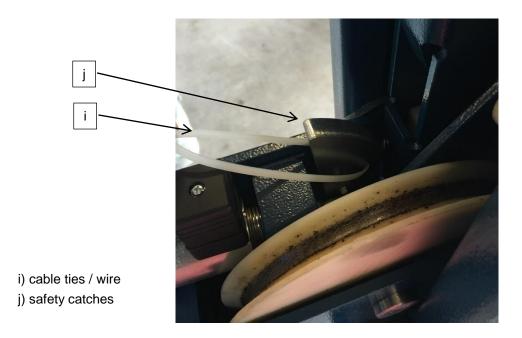
- 1 x screw-on cap with Allen screw (f)
- 2 x screw-on cap with wing bolt (g)
- 1 x 3 Allen key (h)
- 4 x cable ties / wire (i)



f) screw-on cap with Allen screw

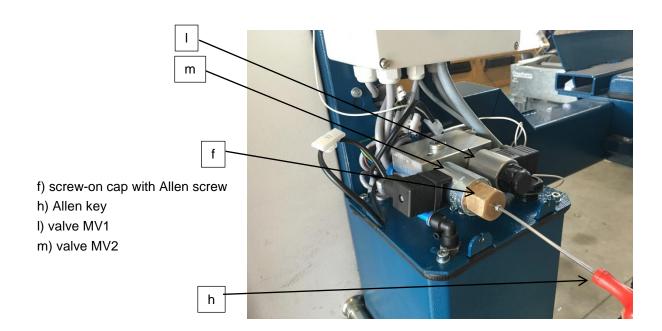
g) screw-on cap with wing bolt

Before the emergency lowering can be done, the safety catches (j) must be manually retracted. When the safety latches are snapped, the lift must be moved out of the latches or lifted with a suitable device to release the latches. Then the safety ratchet can be tied back via a cable tie or a wire (i). This has to be done on all four columns of the lift.





During the emergency discharge ensure there are no people under the lift!



To lower the lift the control valve MV2 (m) on the aggregate has to be opened.

Therefore the unit cover has to be removed. The control valve MV2 is the left one of the two valves. Again, first the black cap has to be removed and then the screw-on cap with the Allen screw (f) is fastened.

By tightening the Allen screw the valve MV2 is opening and the lift begins to lower. The lowering speed can be controlled by adjusting the Allen screw.

In case of danger stop the lowering operation by closing the valve MV2.

7 Inspection and Maintenance



Before conducting maintenance work, preparations must be made to ensure that during maintenance and repair work there is no risk to the safety of people working on or around the lift and also that there is no risk of damage to equipment being used on or around the lift.

To guarantee the utmost availability and to ensure that the lift remains functional, maintenance work contracts are organised between our clients and their local retailers.

A service must be performed at regular intervals of 3 months through the operator in accordance with following service manual. If the lift is in continuous operation or in a dirty environment, the maintenance rate must be increased.

During daily operation the lift must be closely observed to ensure that it is functioning correctly. In the case of malfunction or leakage the technical service must be informed.

7.1 Maintenance plan of the lift

- Before beginning any maintenance work isolate the power supply. Secure the main switch (lock it). Secure the danger area around the automotive lift and secure the lift against unintentional lowering.
- Clean and check the stripper of the cylinder.
- · Clean the piston-rod using compressed air..
- Clean the protection hose at the operating column. Grease it with a multipurpose liquid, otherwise the hose sticks to the column.
- Check the condition of ropes. If torn wires are discovered, the complete rope-set must be changed.
- Check the condition of the electrical parts.
- Clean and lubricate the moving parts of the lift (hinge bolts, sliding pieces, sliding surfaces) grease with a multipurpose liquid (example: Auto Top 2000 LTD. Agip).
- Grease the lubricate nipples with a multipurpose lipid. (example: Auto Top 2000 LTD. Agip).
- Clean and check the function of the ratchet. Grease the surface with a multipurpose lipid.
- Check all welded joints for cracks on the automotive-lift.
 If any cracks are found on the lift cease use immediately. Switch-off and secure the main switch (lock) and call the service partner.
- Check all surfaces and repair if necessary.
- Damage to external surfaces, must be immediately repaired.
 If theses repairs are not made immediately, permanent damage to the powder-coated surface may result.
 - Repair and clean damaged areas with an abrasive paper (grain 120). After this is complete, use a suitable paint (observe the RAL Number).

 Check the zinc surface and repair it with a suitable tool. Use abrasive paper (grain 280).

White rust can result from moisture laying in certain areas for long periods of time. Poor aerating can also result in rust formation.

Rust may result from mechanical damage, wear, aggressive sediments (de-icing salt, liquids) or insufficient cleaning.

Repair and clean these areas with abrasive paper (grain 280).

After this is complete, use a suitable paint (observe the RAL Number).

 The hydraulic oil has to be changed at least once a year. To change the oil, lower the lift into its lowest position. Empty all tanks and refill with clean oil, approx. (see chapter 3.) per hydraulic unit are needed.

Use an ATF-Suffix hydraulic-oil (OEST Company) if the ambient temperature is under 5 degrees centigrade. After filling, the hydraulic oil must be between the upper and lower markings of the oil level gauge.

Remove the old oil according to the appropriate regulations.

- · Check the hydraulic tubes for leakage.
- It is prescribed (VBG 14, § 52-3 German regulation) to exchange the hydraulic hose if its necessary, but latest after 6 years.
- Check that all screws and bolts are correctly torque (turning moments, see the list)

Turning moment for screws

property class 8.8

		0,10*	0,15**	0,20 * * *
	M8	20	25	30
ſ	M10	40	50	60
	M12	69	87	105
٦	M16	170	220	260
0.01-0.	M20	340	430	520
o allar	M24	590	740	890

property class 10.9

	0,10*	0,15**	0,20 * * *
M8	30	37	44
M10	59	73	87
M12	100	125	151
M16	16 250 315		380
M20	490	615	740
M24	840	1050	1250

- sliding friction 0,10 for very good surfaces, lubricated
- * * sliding friction 0,15 for good surfaces, lubricated oder dry
- * * * sliding friction 0,20 surface black or phosphatized, dry

Drehmomenttabelle 8.8-10.9 E

7.2 How often must the lift be cleaned?

A regular and appropriate maintenance practice will aid the preservation of the lift. No guarantees can be given when damage (egg rust or fading colour) is the direct result of poor maintenance and cleaning practice.

Regular cleaning of all kinds of dirt is the best protection against wear and the formation of rust and will prolong the life of the lift

- Dirty deposits that can cause rust include:
 - de-icing salt
 - · sand, pebble stone, natural soil
 - all types of industrial dust
 - · water; also in connection with other environmental influences
 - · all types of aggressive deposits
 - · constant humidity caused by insufficient ventilation

Obviously this is dependent on the type of work being done with the lift, the degree of cleanliness of the workshop and location of the lift. The degree and amount of dirt is dependent on the season, on the weather conditions and the ventilation of the workshop.

During poor conditions it may be necessary to clean the lift once week, but cleaning once a month will suffice.

Clean the lift and the floor with a non-aggressive and non-abrasive detergent. Use a gentle detergent to clean the parts. Use an standard washing-up liquid and lukewarm water.

- Do not use steam jet cleaners.
- Remove all dirt carefully with a sponge or if necessary with a brush.
- Ensure that no washing-up liquid is left on the lift after cleaning.
- Do not use aggressive means for cleaning the workshop floor and the automotive lift.
- A permanent contact with any kind of liquid is not allowed. Do not use high pressure devices for cleaning the lift.

8 Security check

The security check is necessary to guarantee the safety of the lift during use. It has to be performed in the following cases:

- Before the initial operation, after the first installation.
 Use the form "First security check before initiation"
- 2. In regular intervals after the initial operation, at least annually. Use the form "Regular security check at least annually"
- 3. Every time the construction of that particular lift has been changed. Use the form "Extraordinary security check"



The first and the regular security check must be performed by a competent person. It is also recommended to carry out a service on the lift at this time.



After the construction of the lift has been changed (changing the lifting height or capacity for example) and after serious maintenance works (welding load bearing parts) an extraordinary security check must be performed by an expert.

This manual contains forms with a schedule for the security checks. Please us the appropriate forms for the security checks. The forms should remain in this manual after they have been filled out. A short description about special safety devices follows.

9 Handing over and Initiation

9.1 Regulations

- The installation of the lift is performed by trained technicians of the manufacturer or one of its distribution partners. If the operator can provide trained mechanics, he or she can install the lift by him or herself. The installation has to be done according to this regulation.
- Installing the standard-automotive lift in a hazardous location or a washing bay is not allowed..
- Before installation a sufficient foundation must be constructed. If the foundation is already constructed then proof that the foundation conforms to the standard is required.
 - A level foundation for the installation is required. The foundations must be based in a frost resistance depth, both outdoors and indoors in a position where the installer believes there is no chance of frost.
- An electrical supply 3~/N+PE, 400 V, 50 Hz must be provided.
 The supply line must be protected with a time-lag fuse T16A (VDE0100 German regulation). The minimum diameter amounts to 2.5 mm².
- All cable ducts must be equipped with protective coverings to prevent accidents.

9.2 Erection and bolting down the lift

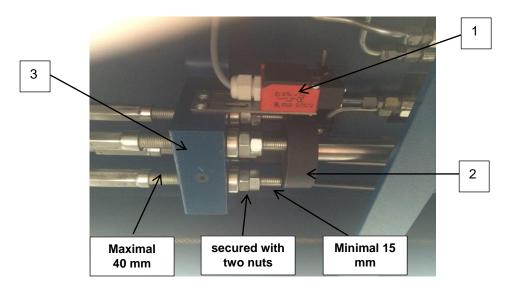
It is necessary to dowel the columns at 4 points. For this a concrete floor without reinforcement, thickness of 140 mm and quality C20/25 is needed. In case of doubt a test drill is necessary and a dowel is to put in. Afterwards the Liebig-dowel (German Dowel manufacturer) is to fasten with a torque of 40 Nm. If the necessary torque is too low or if there are cracks in the concrete floor, a foundation in accordance with the sheet "foundation plan" is to erected. As well it must be paid attention that the installation place is even to guarantee a horizontal erection of the lift.

- Put runways on two erection trestles at installation place, pay attention of exactly difference between the runways (refer to data sheet)
- Position the Traverses on the face of the runways, and put the plugs together.
- Lay out Ropes into right position (see pic)
- Fasten the crossbeam at the rail. Connect the plugs (optional: lighting, CE-Stop switch).
- Pull the ropes through the crossbeam.
- · Pull cables (power supply, air etc.) through the crossbeam and connect..
- · Position the columns at the end of the crossbeam.
- · Adjust the columns with a water bubble.
- Bore holes to fix the dowels through the borings of the base plates. Clean holes with pressure air. Put in safety dowels with washers in borings. The manufacturer demands LIEBIG safety dowels type B 10 or equal dowels of another manufacturer (with allowance) but observe their regulations! Before doweling check concrete floor with quality C20/25 if the concrete floor goes to the top edge of the floor. In this case the dowels have to be chosen according to picture 9. If the ground is covered with floor tiles, the dowels have to be chosen according to picture 10.
- · Tighten the dowels a little bit.
- · Fasten the ropes at the top of the column.
- · Check the position of the columns again.
- Connect the electrical power supply.



The loose / broken cable switch (5) is only pre-mounted at the factory! After threading in and fastening the cable, the switch must be set according to picture below.

This is required again after each cable change or after the platform has been moved.



- 1) Loose / broken cable switch
- 2) Cable support
- 3)Moving trigger element
- Fasten the crossbeam at the rail one more time.
- Fill in the hydraulic oil. (Litre? see chapter 3.)



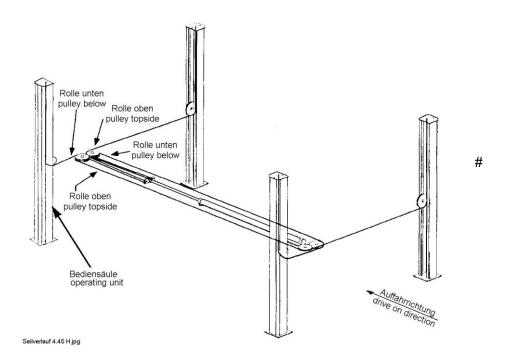
In case of operation the automotive-lift, the chapter " Safety regulations" and "Operating instruction" must be observed.

- Raise the lift until the supports can be removed. Press the button "lifting"
- Remove the supports.
- Lower the lift into the lowest position. (See chapter 5.2). Fasten the ratchet-strip.
- · Raise the lift and hang the spring into ratchet strip.



pic 6: Hang the spring into the ratchet-strip

- Lower the lift into the ratchet. (press the button "lowering" and pull the lever downwards).
- · Adjust the columns again with a water bubble.
- Fasten the dowels with a torque key.
- Fasten the ramps and the safety device at the end of the rail.
- Adjust the sliding guidance at the crossbeam (approx. 4-5 mm movement between the sliding guidance and the column).
- Adjust regular height of the rails at all of the four columns by moving the nuts, which
 fix the carrying ropes in the head plate. For demanded measuring accuracy of all
 important vehicle manufacturer it is necessary to install the lift very exactly and to
 line it up. For this to the following points should be paid attention.
- Lift the automotive lift to eye level and lower it down in the ratchet (refer to operating instructions).



9.3 Change of lift location

If the place of installation is to be changed, the new place has to be prepared in according to the regulations of the first installation. The change should be performed in accordance with the following points:

- Remove the spring at the ratchet-strip.
- Lower the lift in the lowest position
- Loosen and remove the ratchet-strip. If necessary, pull back the ratchet manually.
- Remove the cover of the Oil tank and remove the oil.
- Raise the lift on a working height. Press the button "lifting"
- · Lower the lift until the rails are lay on the erection trestles.
- Disconnect the power supply.
- · Disconnect the hydraulic hoses.
- · Loosen and remove the dowels.
- Loosen and remove the screws of the crossbeam.
- · Transport the automotive-lift to the its new location
- Install the lift in accordance with chapter 9 " Installation and Initiation".



Use new masonry-bolts, the used bolts can not be used again.



A security check must be performed before reinitiating by a competent person. Use form "Regular security check"

9.4 Initiation



Before the initiation a security check must be carried out. Therefore use the form: First security check.

If the lift is installed by a competent person, he or she is to perform the security check. If the operator installs the lift by him or herself, he or she must instruct a competent person to perform the security check.

The competent confirms the faultless function of the lift in the installation record and the form for the security check and authorises the use of the lift.



Please send the completed installation record to the manufacturer after installation.

Grundrahmen
baseplate
pièce

Tragender Beton
carrying concrete
béton portant

Spreizteil des Dübels
Expansion point of bolt
partie expansible de la cheville
Dübelbohrung

Pic 9: choice of the dowel length without floor pavement or tile surface BM10-15

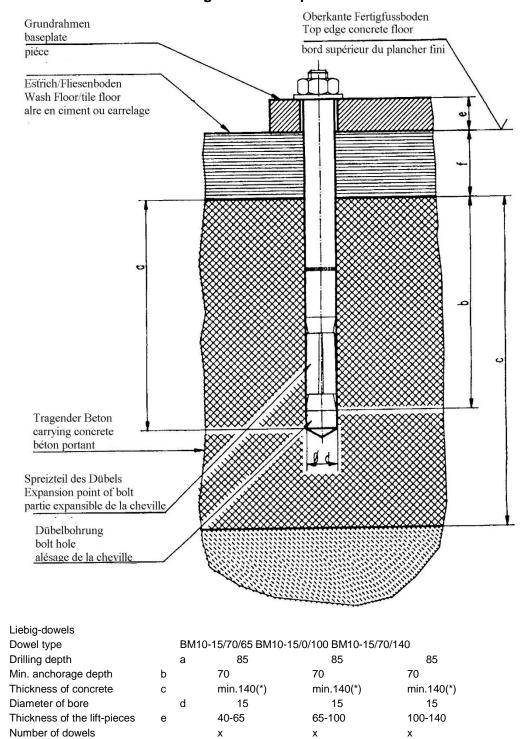
Liebig-dowels Dowel type BM10-/70/40 Drilling depth a 85 Min. anchorage depth b 70 Thickness of concrete c min.140(*) Diameter of bore 15 d Thickness of the lift-pieces 0-40 Number of dowels Χ Starting torque 40

bolt hole

alésage de la cheville

(*) minimum thickness of concrete by using the mentioned dowels. Otherwise, observe the regulation of the foundation plan.

You can use equivalent dowels from another dowel manufacturer (with license) but observe their regulation.



Pic 10: choice of the dowel length with floor pavement or tile surface

(*) minimum thickness of concrete by using the mentioned dowels. Otherwise, observe the regulation of the foundation plan.

40 Nm

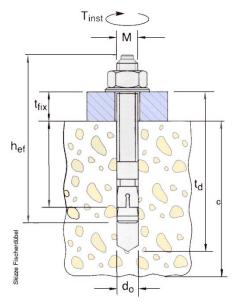
Starting torque

You can use equivalent dowels from another dowel manufacturer (with license) but observe their regulation.

40Nm

51 Version 4.0

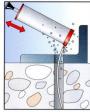
40Nm

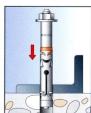


Änderungen vorbehalten! subject to alterations! sous réserve des modifications!

fischer-Dübel		Jumbo ^b , Sprinter ^b , 4.32H° -4.300H°, 1.25 SH-1.35SH ^a , 2.30 TLS ^a , 2.35 TS/TSA/TSK ^a , 2.32TSAP ^a , 2.35TSAPH ^a ,	2.25SL³, 2.32SL°-2.35 SL°, SPL ^b ¹/Power-Lift ^b , 1.20 SE ^b UNI-LIFT 3500 NT/CLT ^d , 2.32TTL ^a	HDL5000°, HDL6500°, 250SE',				
Dübel typ of dowel		FH 15/50 B	FH 18 x 100/100 B	FH 24/100 B				
type de cheville		FH 15/50 B	FR 18 X 100/100 B	FH 24/100 B				
lype de chevine Bohrteife drilling depth Profondeur de l'alésage	td	145	230	255				
Mindestverankerungstiefe min.anchorage depth Profondeur minimale dáncrage	hef	70	100	125				
Betonstärke thickness of concrete Epaisseur du béton	С	siehe den aktuellen Fundamentplan see current foundation-diagram drawing vois le plan de fondation actuel						
Bohrerdurchmesser diameter of bore Diamètre de l'alésage	do	15	18	24				
Bauteildicke thickness of the lift-piece Epaisseur de la pièce	tfix	0-50	0-100	0-100				
Anzugsdrehmoment Nm turning moment moment d'une force	Mo	40	80	120				
	а		4					
0::: 1 11	b		8					
Stückzahl	С	10						
piece number nombre des pièces	d		12					
Hornord des pieces	е		16					
	f	20						











Es können auch gleichwertige Sicherheitsdübel anderer Hersteller (mit Zulassung) unter Beachtung deren Bestimmungen verwendet werden. It is possible to use equivalent safety-dowels (with license) of other manufacturer but observe their regulations. Des chevilles des autres marques (autorisées) peuvent aussi être choisies en respetant les directives du fabricant.

First security check before installation

Serial-no.:	F	Filling out and leave in this manual			
kind of check	all right	defect missing	veri- fication	remark	
Type plate					
Type plate	H		片		
Short operating instruction	H		片		
Warning designation	H	님	님		
Sticker max. capacity	H	님	님		
Designation lifting/lowering	님		님		
Detailed operating instruction	\vdash	닏	닏		
Lockable main switch	\sqcup		닏		
Condition, Function Button "Lifting"	H	\sqcup	닏		
Condition, Function Lever "Lowering,	H	님	님		
Function Button "Bridging button"	H	님	님		
Function "Lowering into the ratchet"	H	H	H		
Condition "roll over safety device" Condition Cover	H	H	님		
Condition ratchet and ratchet strip	H		Η		
Condition automotive-lift	H	H	H		
Condition bolts and bearings	H	H	H		
Construction (deformation, cracking)	Ħ	H	H		
Function movable rail	Ħ	Ħ	Ħ		
Condition welding	Ħ	Ħ	Ħ		
Torque moment of screws and dowels					
Condition hydraulic unit					
Condition colour					
Condition ropes and fastening					
Condition piston rod					
Closeness of the hydraulic system					
Level of hydraulic oil			Ц		
Condition hydraulic hoses	님	님	닏		
Condition electrical cable	H	H	님		
Condition concrete	H	H	님		
Function test with vehicle Function lighting (optional)	H	H	Η		
Turiotion lighting (optional)	Ш	Ш	Ш		
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Failures repaired at:					
		signa	ture of the	operator	
(Use another form for verification!)					

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Designation lifting/lowering	Ħ	Ē	Ī	
Detailed operating instruction	Ħ	Ē	Ħ	
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Torque moment of screws and dowels				
Condition hydraulic unit				
Condition colour	\sqcup	닏	\sqcup	
Condition ropes and fastening	H	님	님	
Condition piston rod	H	님	Η	
Level of hydraulic oil	H	H	H	
Condition hydraulic hoses	H	H	H	
Condition electrical cable	Ħ	Ħ	Ħ	
Condition concrete				
Function test with vehicle				
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Warning designation	Ħ	Ħ	Ħ	
Sticker max. capacity	Ħ	Ħ	Ħ	
Designation lifting/lowering	Ħ	Ħ	Ħ	
Detailed operating instruction	Ħ	Ħ	Ħ	
Lockable main switch	Ħ	H	H	
Condition, Function Button "Lifting"	Ħ	H	H	
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Function Button "Bridging button"	Ħ	Ħ	Ħ	
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Condition Cover				
Condition ratchet and ratchet strip				
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Warning designation	H	H	H	
Sticker max. capacity	H	H	H	
Designation lifting/lowering	H	H	H	
Detailed operating instruction	H	H	H	
Lockable main switch	H	H	H	
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Function Button "Bridging button"	П	П	П	
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Warning designation	Ħ	Ħ	Ħ	
Sticker max. capacity	Ħ	Ħ	Ħ	
Designation lifting/lowering	Ħ	Ħ	Ħ	
Detailed operating instruction	Ħ	Ħ	Ħ	
Lockable main switch	Ħ	H	H	
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Condition concrete	Ħ	Ħ	Ħ	
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Short operating instruction	H	H	H	
Warning designation	H	H	H	
Sticker max. capacity	H	H	H	
Designation lifting/lowering	H	H	H	
Detailed operating instruction	H	H	H	
Lockable main switch	H	H	H	
Condition, Function Button "Lifting"	H	H	H	
Condition, Function Lever "Lowering,	Ħ	Ħ	Ħ	
Function Button "Bridging button"	П	П	П	
Function "Lowering into the ratchet"				
Condition "roll over safety device"				
Condition Cover				
Condition ratchet and ratchet strip				
Condition automotive-lift				
Condition bolts and bearings	\sqcup	닏	닏	
Construction (deformation, cracking)	\vdash	님	님	
Function movable rail	H	H	H	
Condition welding Torque moment of screws and dowels	H	H	H	
Condition hydraulic unit	H	H	H	
Condition colour	H	H	H	
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Condition hydraulic hoses				
Condition electrical cable				
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kind of check	all right	defect missing	veri- fication	remark
Type plate	П	П	П	
Short operating instruction	Ħ	Ħ	Ħ	
Warning designation	Ħ	Ħ	Ħ	
Sticker max. capacity	\Box	Ē	\Box	
Designation lifting/lowering	Ħ	Ħ	Ħ	
Detailed operating instruction	Ħ	Ħ	Ħ	
Lockable main switch	Ħ	Ħ	Ħ	
Condition, Function Button "Lifting"	Ħ	Ħ	Ē	
Condition, Function Lever "Lowering,				
Function Button "Bridging button"				
Function "Lowering into the ratchet"				
Condition "roll over safety device"	\sqcup	닏		
Condition Cover	\sqcup	님	\vdash	
Condition ratchet and ratchet strip Condition automotive-lift	H	님	님	
Condition bolts and bearings	H	H	H	
Construction (deformation, cracking)	H	H	H	
Function movable rail	Ħ	Ħ	Ħ	
Condition welding	Ħ	Ħ	Π	
Torque moment of screws and dowels				
Condition hydraulic unit				
Condition colour				
Condition ropes and fastening	Ц	Ц		
Condition piston rod	\mathbb{H}	님	님	
Closeness of the hydraulic system	H	님	님	
Level of hydraulic oil	H	H	H	
Condition electrical cable	H	H	H	
Condition concrete	Ħ	Ħ	Ħ	
Function test with vehicle	Ħ	Ħ	Π	
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Failures repaired at:				
		signa	ture of the	operator
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Short operating instruction	Ħ	一	\Box	
Warning designation	Ħ	Ħ	Ħ	
Sticker max. capacity	Ħ	Ħ	Ħ	
Designation lifting/lowering	Ħ	Ħ	Ħ	
Detailed operating instruction	Ħ	Ħ	Ħ	
Lockable main switch	Ħ	H	H	
Condition, Function Button "Lifting"	Ħ	H	H	
Condition, Function Lever "Lowering,	Ħ	Ħ	Ħ	
Function Button "Bridging button"	Ħ	Ħ	Ħ	
Function "Lowering into the ratchet"	Ħ	Ħ	Ħ	
Condition "roll over safety device"				
Condition Cover				
Condition ratchet and ratchet strip				
Condition automotive-lift				
Condition bolts and bearings				
Construction (deformation, cracking)				
Function movable rail	Ц	Ц	\sqcup	
Condition welding	닏	닏	닏	
Torque moment of screws and dowels	님	닏	님	
Condition hydraulic unit	H	님	님	
Condition ropes and fastening	H	\vdash	片	
Condition ropes and fastening Condition piston rod	H	H	H	
Closeness of the hydraulic system	H	H	H	
Level of hydraulic oil	H	H	H	
Condition hydraulic hoses	H	H	H	
Condition electrical cable	Ħ	Ħ	H	
Condition concrete	Ħ	Ħ	Ħ	
Function test with vehicle	Ħ	Ħ	П	
Function lighting (optional)				
(mark here applicable, in case of verification				t mark!)
Carried out the company:				
Name, address of the competent:				
Result of the Check:				
☐ Initiation	not perr	mitted, verif	ication ned	cessary
☐ Initiation	oossible	e, repair fail	lures until	
☐ No failing	s. Initia	tion possibl	le	
	•	•		
signature of the expert			of the ope	erator
If failures must be repaired:				
Failures repaired at:			ture of the	operator
(Use another form for verification!)		•		

Serial-no.:	F	Filling out and leave in this manual			
kind of check	all right	defect missing	veri- fication	remark	
Type plate		П			
Short operating instruction	Ħ	Ħ	Ħ		
Warning designation	Ħ	Ħ	Ħ		
Sticker max. capacity	\Box	Ē	\Box		
Designation lifting/lowering	П	Ē	Ī		
Detailed operating instruction	Ħ	Ē	Ħ		
Lockable main switch	Ħ	Ē	Ħ		
Condition, Function Button "Lifting"	П	Ē	Ī		
Condition, Function Lever "Lowering,					
Function Button "Bridging button"					
Function "Lowering into the ratchet"					
Condition "roll over safety device"	\sqcup	닏	\sqcup		
Condition Cover	H	H	\vdash		
Condition ratchet and ratchet strip Condition automotive-lift	H	片	Η		
Condition bolts and bearings	H	H	H		
Construction (deformation, cracking)	Ħ	Ħ	Ħ		
Function movable rail	Ħ	Ħ	Π		
Condition welding					
Torque moment of screws and dowels					
Condition hydraulic unit					
Condition colour	\sqcup	닏			
Condition ropes and fastening	H	님	님		
Condition piston rod	H	H	H		
Level of hydraulic oil	H	H	H		
Condition hydraulic hoses	Ħ	H	H		
Condition electrical cable	Ħ	Ħ	Ħ		
Condition concrete					
Function test with vehicle					
Function lighting (optional)	Ш	Ш			
(mark here applicable, in case of verification Security check carried out:			to the firs	t mark!) 	
Carried out the company:					
Name, address of the competent:					
Result of the Check:					
	not norr	nitted, verif	ication nec	coccan/	
	-				
<u> </u>		•			
☐ No falling	s, initia	tion possibl	ie		
signature of the expert		signature	of the ope	erator	
If failures must be repaired:					
Failures repaired at:					
		signa	ture of the	operator	
(Use another form for verification!)					

Extraordinary security check

Serial-no.:	F	Filling out and leave in this manual			
kind of check	all right	defect missing	veri- fication	remark	
plate			П	Type	
Short operating instruction	Ħ	H	H		
Warning designation	H	H	H		
Sticker max. capacity	H	H	H		
Designation lifting/lowering	Ħ	H	H		
Detailed operating instruction	H	H	H		
Lockable main switch	H	H	H		
Condition, Function Button "Lifting"	H	H	H		
Condition, Function Lever "Lowering "	H	H	H		
Function Button " Bridging button "	H	H	H		
Function "Lowering into the ratchet"	Ħ	Ħ	Ħ		
Condition "roll over safety device"	Ħ	Ħ	П		
Condition Cover	Ħ	Ī	\Box		
Condition ratchet and ratchet strip					
Condition automotive-lift					
Condition bolts and bearings					
Construction (deformation, cracking)					
Function movable rail					
Condition welding	\sqcup	Ц			
Torque moment of screws and dowels	닏	닏	닏		
Condition hydraulic unit	\vdash	님	\vdash		
Condition colour	H	님	님		
Condition ropes and fastening	H	님	님		
Condition piston rod	H	H	H		
Level of hydraulic oil	H	H	H		
Condition hydraulic hoses	H	H	H		
Condition electrical cable	H	H	H		
Condition concrete	Ħ	Ħ	Ħ		
Function test with vehicle	Ħ	Ħ	П		
Function lighting (optional)					
(mark here applicable, in case of verification			to the firs	t mark!) 	
Carried out the company:					
Name, address of the competent:					
Result of the Check:					
Initiation r	-			-	
☐ Initiation p	ossible	e, repair fai	lures until		
☐ No failing	s, Initiat	tion possib	le		
signature of the expert			of the ope		
If failures must be repaired:					
Failures repaired at:			ture of the	operator	
(Use another form for verification!)		sigila	tale of tile	οροιαίοι	

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