

UNI LIFT

UNI LIFT 3500 NT / 3500 NT PLUS

OPTIONAL WITH SPID



OPERATING INSTRUCTION AND DOCUMENTATION

Valid from: 01/2023

Serial No.:

Table of contents

Foreword	4
Record of installation	6
Record of handing over	7
1. Introduction	8
1.1 Installation and check of the automotive lift	8
1.2 Information of Warning	8
2. Master document of the automotive lift	9
2.1 Lift-manufacturer	9
2.2 Application	9
2.3 Changes at the construction	9
2.4 Displacement of the automotive-lift	9
2.5 Declaration of conformity	10
3. Technical information	11
3.1 Technical ratings	11
3.2 Safety devices	11
3.3 Datasheet	12
3.4 Foundation plan	18
3.5 Dowel drilling pattern	28
3.6 Hydraulic diagram (without wheel free lift)	30
3.7 Hydraulic diagram (with wheel free lift)	31
3.8 Hydraulic diagram (with play detector)	32
3.9 Electrical diagram drawing (without wheel free lift)	33
3.10 Electrical diagram drawing (with wheel free lift)	39
3.11 Electrical diagram SPID	45
4. Safety regulations	51
5. Operating instructions	51
5.1 Lifting the vehicle	51
5.2 Lowering the vehicle	52
5.3 Equalization of the platforms	52
6. Troubleshooting	54
6.1 Driving on an obstacle	55
6.2 Emergency lowering of the main lift/ wheel free lift	55
7. Inspection and Maintenance	56
7.1 Maintenance plan of the lift	56
7.2 Cleaning of the automotive lift	59
7.3 Cleaning and care of galvanised surfaces	59
Influence factors for discolourations of the surface	60
Touch-up after incidence of white rust:	60
Traces of usage due to tyre wear	60
Spotting due to spilling liquids	60
Cleaning and care	61
8. Security check	61
9. Installation and Initiation	61
9.1 Regulations for the installation	62
9.2 Erection and doweling of the lift	62
9.3 Deaerate the hydraulic system (main lift)	63
9.4 Initiation	64
9.5 Changing the installation place	64
First security check before installation	69
Regular security check	70
Extraordinary security check	82

Foreword

Nussbaum-Lifts are a result of long-standing experiences.

The high quality and the superior concept guarantee them reliability, a long lift time and the economic business. To avoid unnecessary damages and dangers, read the operating instruction attentive and observe the contents. Another or the described purpose going out use is not valid when not as agreed. This is valid particularly for climb and go.

Nussbaum Automotive Lifts GmbH is not liable for damages arising from this. The user carries the risk alone.

For the use belonged:

- to observe all the notice in the operating instruction and
- the following of the inspection and maintenance work and the prescribed tests.
- The instruction for use have to be observed by all persons working with the lift.
- Especially the chapter "Safety/accident Prevention" has to be observed.
- In addition to the safety remarks of the instructions for use the regulations and instructions being valid at the place of operation have to be considered.

Obligations of the operator:

The operator is obliged to allow only those persons complying to the following requirement to work at the unit

- being well acquainted with the basic regulations concerning labour safety and accident prevention and being trained to operate the unit.
- having read and understood the chapter concerning safety and warning instructions and confirmed that by their signature.

Dangers when operating with the lift:

The Nussbaum-Lifts are designed and built according to technical standard and the approved regulations for technical security. Yet, danger for body and life of the operator may turn up when using the lift inexpertly.

The lift must only be operated :

- for its appropriate use
- in unobjectionable condition concerning technical security.

Organising requirements

- The instructions for use are constantly to be kept at the place of operation being at hand 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 directed.
- Safety- and danger alert operation of personal is occasionally and by observing the instructions for use to be controlled.
- As far as required and ordered by regulations personal protective equipment is to be used
- All safety- and danger-hints at the lift are to be observed!
- Spare parts must comply with technical requirements laid down by the manufacturer. This is only warranted with original parts.
Consider time intervals given or fixed in instructions for use for repeated tests/inspections.

Maintenance works, remedy of faults and disposal

- Fixed Adjusting-, maintenance- and inspection works and time intervals including Details for exchange of parts/part components as mentioned in the instructions for use are to be adhered.
These works must only be carried out by expert personal.
- After maintenance- and repair works loose screw connections 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 injuries of persons or things if these injuries are caused by one or by some 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 or do not work correctly or are not installed correctly.
- Not to follow the regulations of the operating instruction concerning transport, storing, installation, initiation, operation and maintenance of the lift.
- Changes of the construction of the lift without asking the producer.
- Changes of important adjustments of the lift (e.g. driving elements, power rating, motor speed, etc)
- Wrong or incorrect maintenance.
- Catastrophes, acts of God or external reasons.

Disassembly, decommissioning and disposal

Disassembly of the lifting platform should be done by a specialist. Any liquids (e.g. Hydraulic oil) must be discharged and disposed off separately.

When decommissioning, remove the model plate and destroy it, as well as the logbook. Disposal of the lifting platform should be done by an authorized recycling company.



Fill out, undersign and copy this sheet and send the original to the lift manufacturer. The copy remains in the manual.

**Nussbaum Automotive Lifts GmbH
Korker Strasse 24
D-77694 Kehl - Bodersweier**

Record of installation

The automotive lift with the

serial number:..... was installed on:.....

at the firm:..... at:.....

The initial safety check was carried out and the lift was started.

The installation was carried out by the operating authority/competent (please delete as applicable).

The initial safety check was carried out by a competent person before the initial operation.

The operating authority confirms the correct installation of the automotive lift, the competent person confirms the correct initial operation.

Used Dowels(*):_____ (Type/Name)

Minimum anchorage depth (*) kept: _____ mm ok

Starting torque (*) kept: _____ NM ok

..... date name of the operating authority signature of the operating authority

..... date name of the competent person signature of the competent person

Your customer service:.....(stamp)

(* see supplement of the dowel manufacturers

Record of handing over

The automotive lift with the

serial number:..... was installed on:.....

at the firm:..... at:.....

the safety was checked and the lift was started.

The persons below were introduced after the installation of the automotive lift. The introduction was carried out from an erector of the lift-manufacturer or from a franchised dealer (competent person).

..... date name signature

..... date name of competent signature of the competent

Your customer service:.....

1. Introduction

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

To furnish proof of the **installation of the automotive lift** the form "Record of Installation" must be signed and returned to the manufacturer.

To furnish proof of the singular, regular and extraordinary check this documentation contains forms.

The forms should be used to document the checks. They should not be removed from this documentation.

Every **change of the construction** and **displacement** of the automotive lift has to be registered in the "**Master document**" of the lift.

1.1 Installation and check of the automotive lift

Only specialist staff is allowed to do work concerning safety and to do the safety checks of the lift. They are called experts and competent persons in this document.

Experts are persons (for example self-employed engineers, experts) which have received instruction and have experience to check and to test automotive lifts. They know the relevant regulations concerning both labour and accidents prevention.

Competent persons are persons who have acquired adequate knowledge and experience with automotive lifts. They took part in training from the lift-manufacturer (servicing technicians of the manufacturer or dealer are competent)

1.2 Information of Warning

To show danger and to show important information the three symbols below are used. Pay attention to those passages, which are marked with these symbols



Danger! This sign indicates danger to life. Inexpert handling of the described operation may be dangerous to life.



Caution! This sign cautions against possible damage to the automotive lift or other material defects in case of inexpert handling .



Attention! This sign indicates an important function or another important note.

2. Master document of the automotive lift

2.1 Lift-manufacturer

Nussbaum Automotive Lifts GmbH
Korker Strasse 24
D-77694 Kehl - Bodersweier

2.2 Application

The automotive lift UNI-LIFT 3500 NT / Plus / Spid is a lifting mechanism for lifting motor vehicles with a laden weight of up to 4000 kg (with wheel free lift 3500 kg). The max. load distribution is 2:1 in or against drive-on direction.

The wheel free lift is a lifting mechanism for lifting motor vehicles with a laden weight of up to 3500 kg. The max. load distribution is 2:1 in or against drive-on direction.

The lift is equipped with a detector (called SPID) which is able to detect play in the axes and on single wheel suspensions. The detection is possible up to an axle load of 2300 kg.

The automotive lift is only designed for servicing vehicles. It is not allowed to carry persons with the lift. It is not allowed to climb on the lift or on the vehicle. It's not allowed to install the standard-automotive lift in a hazardous location or washing bays.

After changes of the construction and after essential maintenance work on carrying parts and after changing the installation place, an expert has to check the lift and to confirm its correctness and security.

2.3 Changes at the construction

**Changes at the construction, expert checking, resumption of work
(date, kind of change, signature of the expert)**

name, address of the expert

place, date

signature of the expert

2.4 Displacement of the automotive-lift

Displacement of the automotive-lift, expert checking, resumption of work
(date, kind of change, signature of the expert)

name, address of the expert

.....
place, date

signature of the expert

2.5 Declaration of conformity

EG- Konformitätserklärung

Nussbaum

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:

UNI LIFT 3500 NT
UNI LIFT 3500 NT AMS
UNI LIFT 3500 NT PLUS
UNI LIFT 3500 NT PLUS AMS

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
Niederspannungsrichtlinie / 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 vigueur.
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

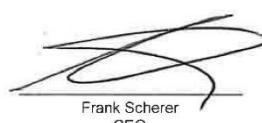
Nussbaum Automotive Lifts GmbH

Baujahr
Year of manufacture

20____

Seriennummer
Serial number

Seriennummer



Frank Scherer
CEO

Kehl- Bodersweier, 05.04.2022

Doc-NUS_UNI-
LIFT_3500NT_2022-04

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



3. Technical information

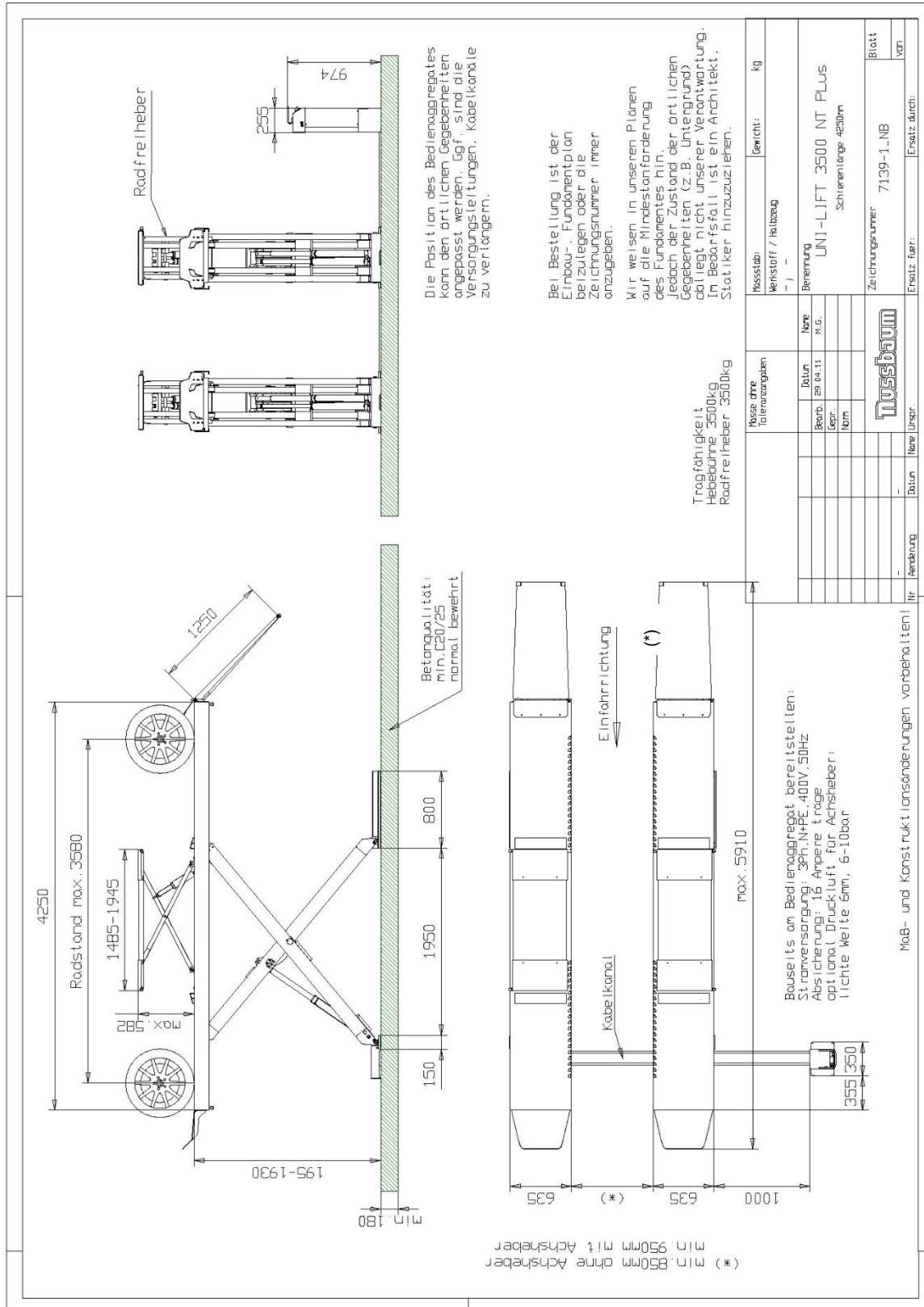
3.1 Technical ratings

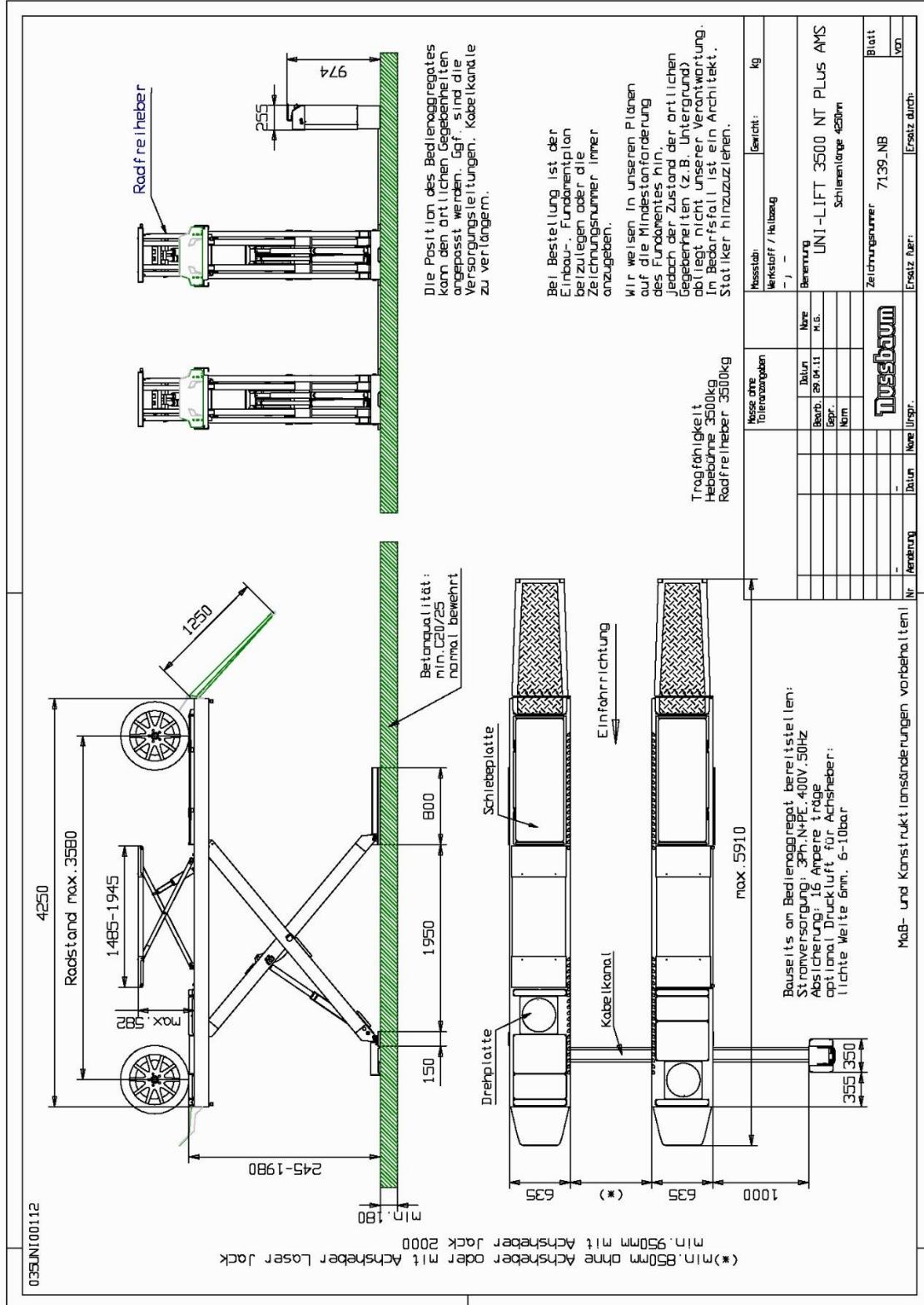
capacity without wheel free lift	4000 kg
with wheel free lift	3500 kg
load distribution	max. 2:1 in or against drive-on direction
Lifting time (main lift)	approx. 30 sec. with load
Lowering time (main lift)	approx. 30 sec. with load
capacity wheel free lift	3500 kg
load distribution	max 2:1 in or against drive- in-direction
Lifting time (wheel free lift)	approx. 5 sec. with load
Lowering time (wheel free lift)	approx. 12 sec. with load
capacity detector „SPID“	max. axle load 2300 kg
Line Volthage	3 x 400 Volt , 50Hz
Power rating	3 kW
Motor speed	3000 rot./min.
Pump capacity	3 cm ³ /rot.
Hydraulic pressure	ca. 330 bar
pressure relief valve	ca. 360 bar
Oil tank	approx. 14 Litre
Sound level L _{PA}	≤ 70 dB
Connection by customer	3~/N+PE, 400V, 50 Hz (standard version) with fuse T16A (Pay attention to the voltage of your country)

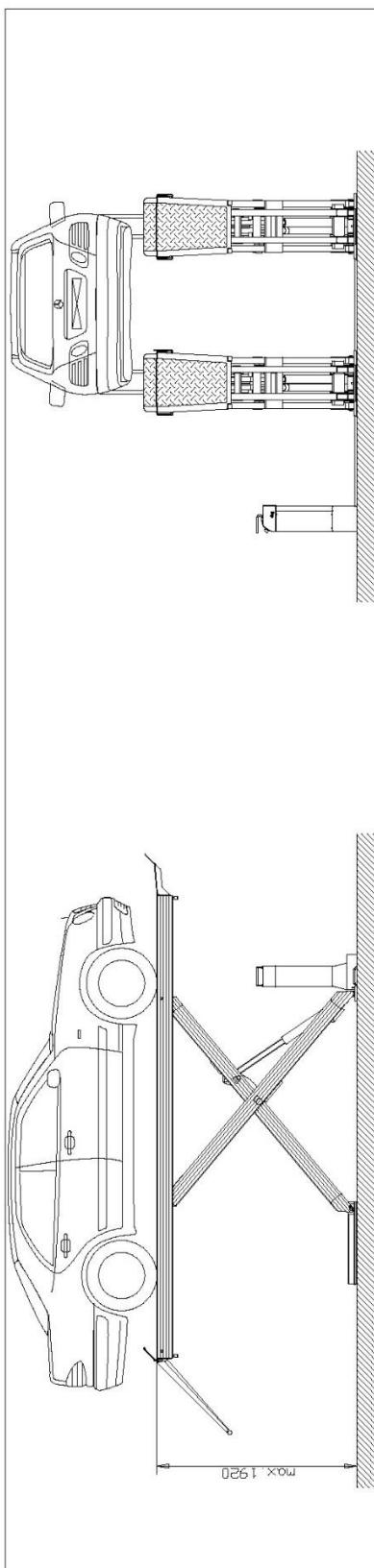
3.2 Safety devices

1. Pressure relief valve
 - Overprint-safety of the hydraulic system
2. Holding valve
 - safety device against unintentional lowering
3. Lockable main switch
 - safety device against unauthorised operation
4. Foot protection
 - safety device against bruises in the area of the feet
5. Two independent cylinders
 - (each side master- and slave-cylinder)
 - safety device against unintentional lowering
6. Seat valves at the cylinders of the wheel free lift
 - safety device against unintentional lowering of the wheel free lift
7. CE-STOP
 - safety device against squeeze

3.3 Datasheet

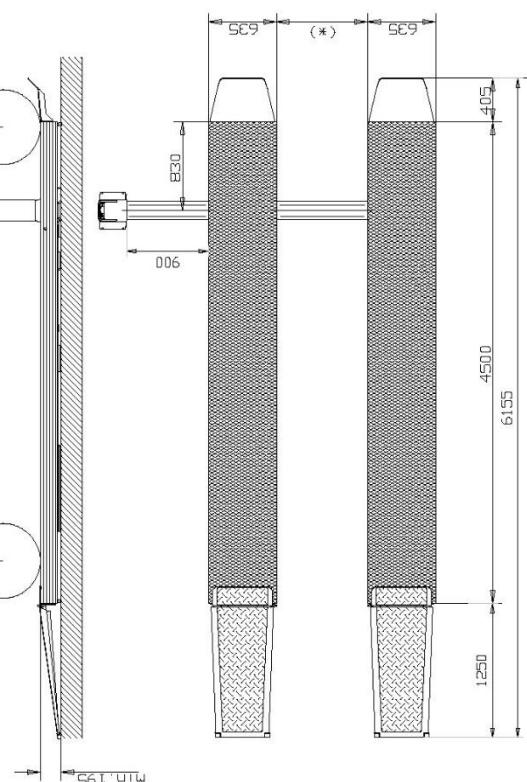






Technische Daten:
 Tragfähigkeit : 4000 kg
 Auf Fahrfläche : 195 mm
 Hubhöhe max. : 1920 mm
 Hubzeit : ca. 31 sec.
 Senkzeit : ca. 19 sec.
 Motorleistung : 3 kW

(*) min. 850mm ohne Achsheber
 min. 950mm mit Achsheber

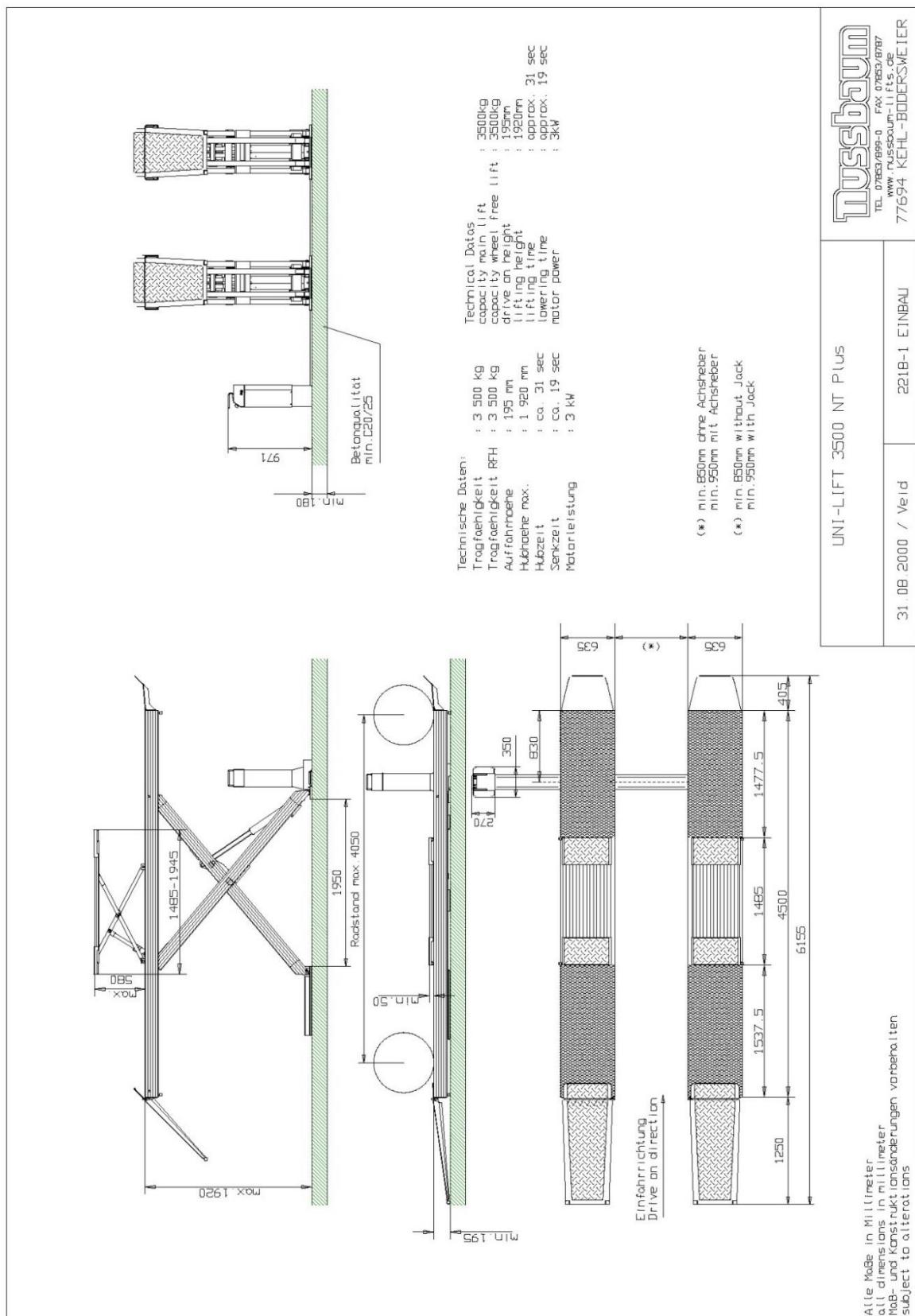


Alle Massen in mm.
 Mass- und Konstruktionsänderungen vorbehalten.
 Der genaue Lieferumfang ist der Preisliste zu entnehmen.

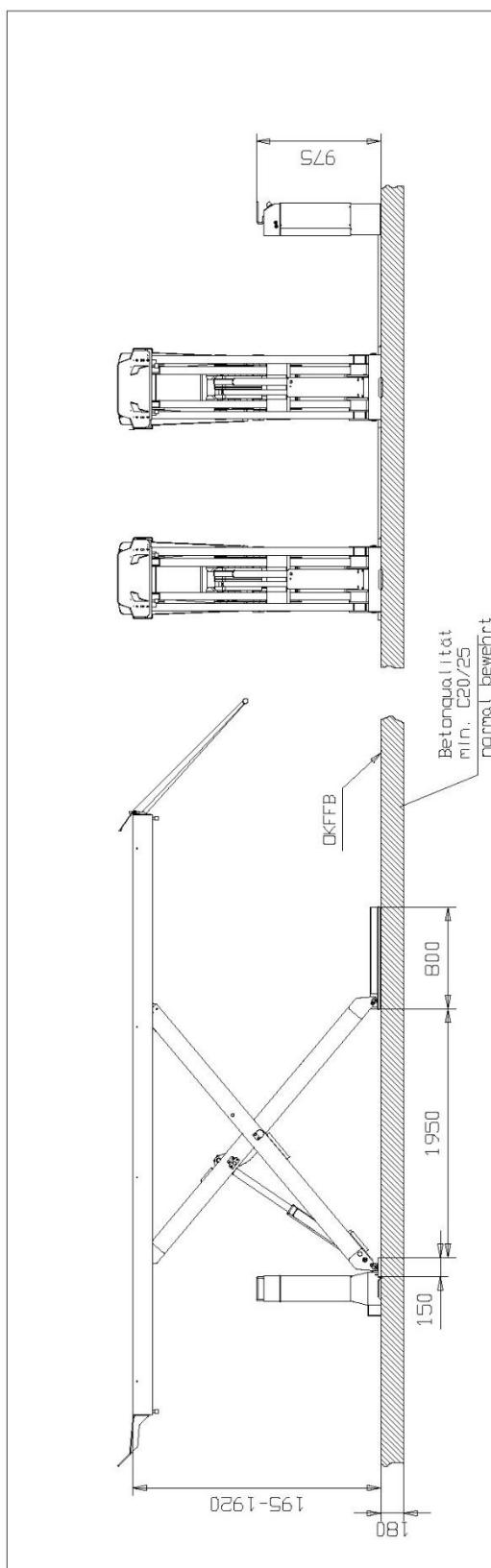
Datenblatt UNI LIFT 3500 NT	
30.08.2000 / Verd	2216-1 EINBAU

UNIBAU
HEBETECHNIK
TEL. 07834/899-0 FAX 07834/8987
www.unilift.com

77694 KEHL-BODERSWEIER

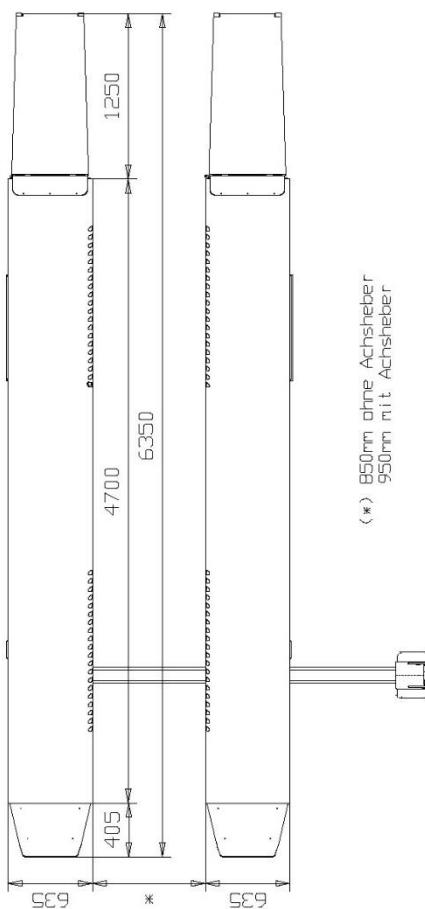


All dimensions in millimeter
subject to alterations



Technische Daten:	
Tragfähigkeit:	: 3 500 kg
Auf Fahrhöhe:	: 195 mm
Hubhöhe max.:	: 1 920 mm
Hubzeit:	: ca. 31 sec
Senkzeit:	: ca. 19 sec
Motorleistung:	: 3 kW

Bauseits am Bedienobjekt bereitzustellen:
Netzanschluss: 3PH.N+PE, 400V, 50Hz
Absicherung: 16 Ampere träge
Kabellänge: ca. 2m, 5x2,5mm²
Optional Druckluft für Achsheber:
Lichte Weite 6mm, 6-10 bar



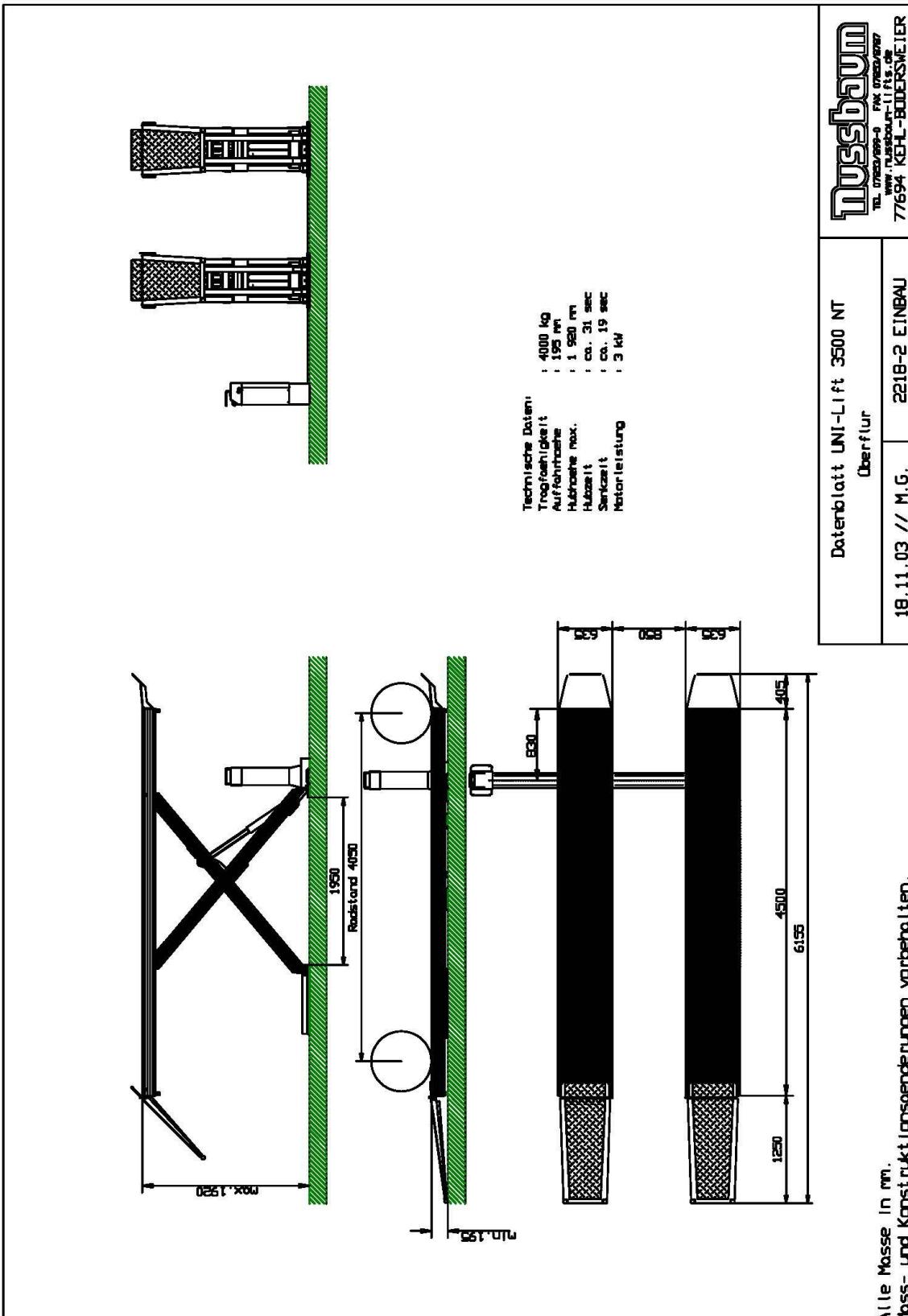
Alle Maße in mm.
Mass- und Konstruktionsänderungen vorbehalten.
Der genaue Lieferumfang ist der Preisliste zu entnehmen.

UNI-LIFT 3500 NT

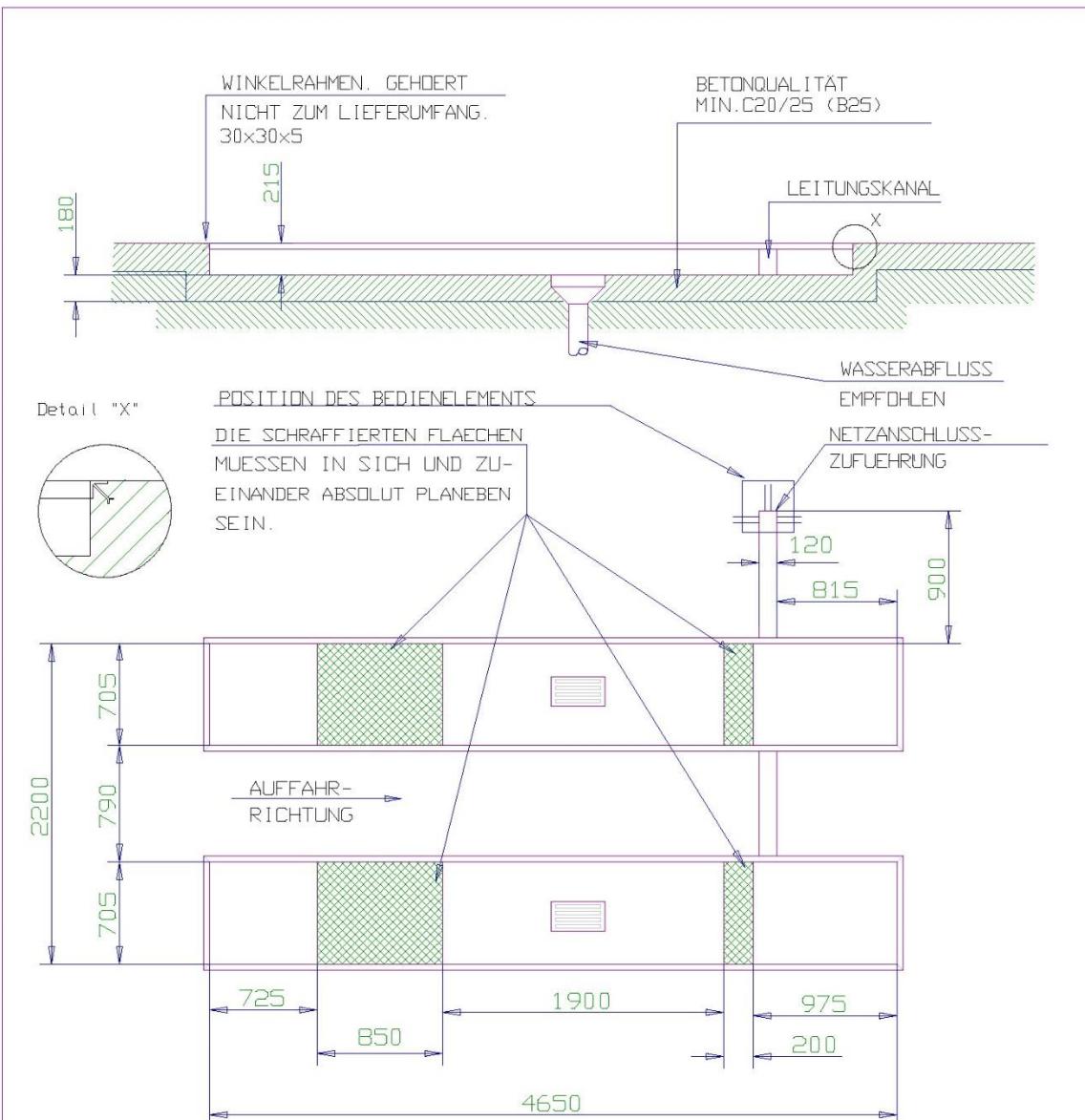
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25.01.06 // M.G.	7127-NB
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3.4 Foundation plan



ACHTUNG: GILT NUR FÜR DIE SERIENAUSFÜHRUNG MIT STELLPLATTEN UND BEIDSEITIGEN AUFFAHRKLAPPEN.

ANSTELLE DES LEITUNGSKANALS KANN AUCH EIN LEERROHR
Ø 100 VERlegt WERDEN.

BAUSEITS IST FOLgendes ANzUBRINGEN: NETZANSCHLUSS 3 /N+PE, 400V, 50Hz, KABELLAENGE CA. 2m
WASSERABFLUSS IN DER VERTIEFUNG

Änderungen vorbehalten/ Subject to alterations!

GRUBENMASSE UNI-LIFT 3500 CLT / NT

OBERKANTE AUFFAHRSCHEINE BODENEBEN, SCHIENENLÄNGE 4 500 MM

29.09.2000 / M.A

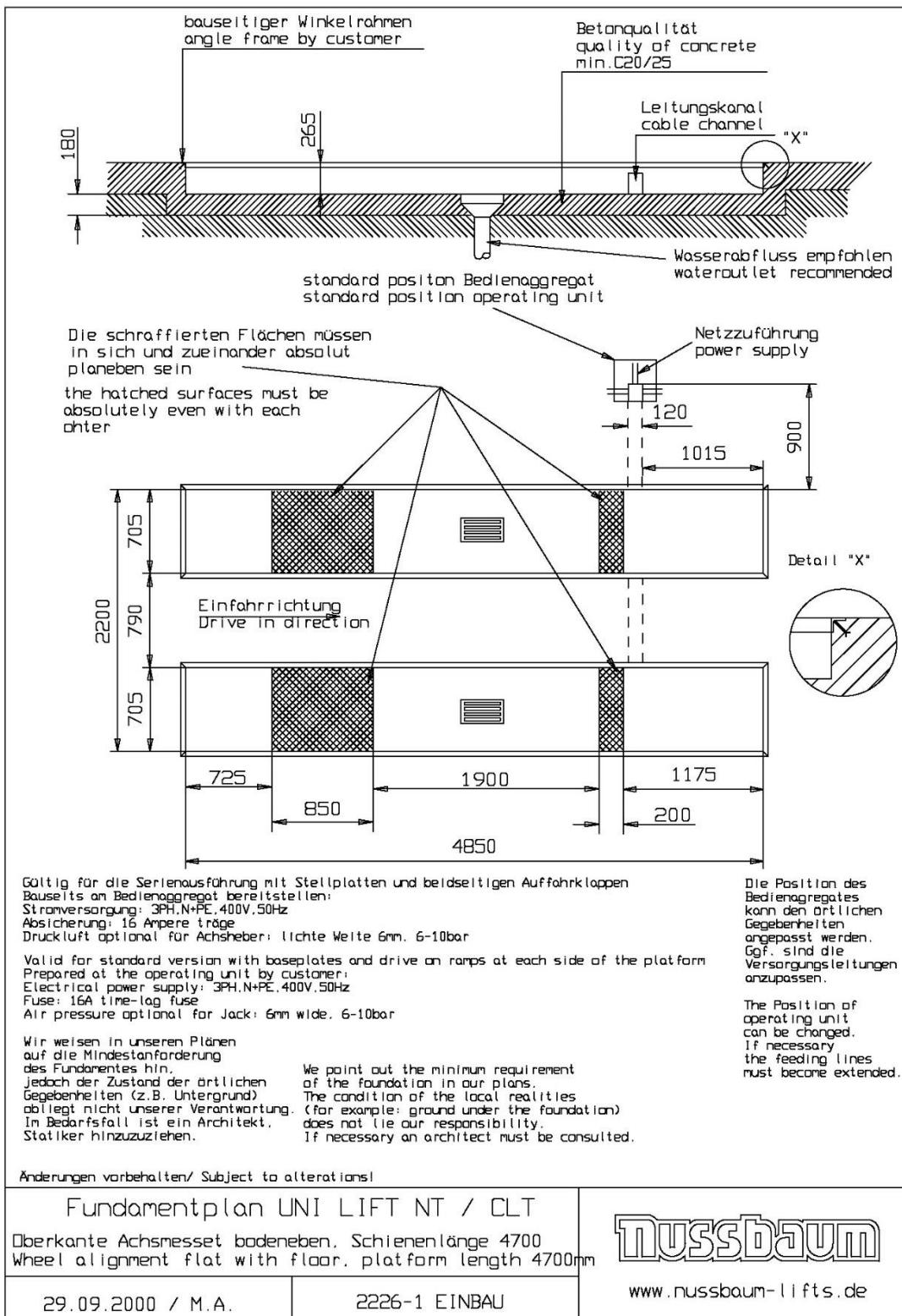
EINBAU2226

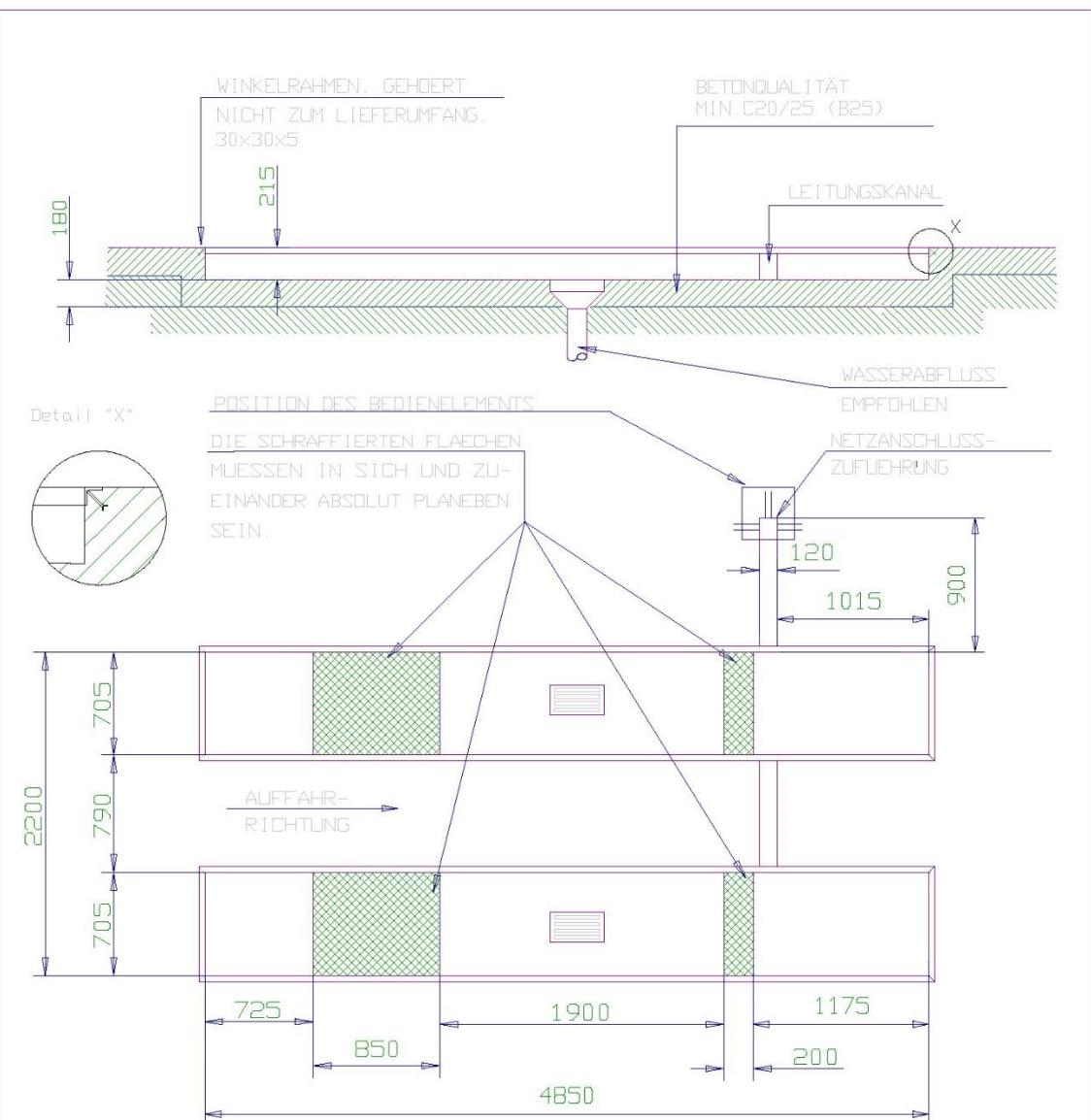
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77694 KEHL-BODERSWEIER





ACHTUNG: GILT NUR FÜR DIE SERIENAUSFÜHRUNG MIT STELLPLATTEN UND BEIDSEITIGEN AUFFAHRKLAPPEN.
ANSTELLE DES LEITUNGSKANALS KANN AUCH EIN LEERROHR Ø 100 VERlegt WERDEN.
BAISEITS IST FOLgendes ANzUBRINGEN: NETZANSCHLUSS 3 /N+PE, 400V, 50Hz, KABELLAENGE CA. 2m
WASSERABFLUSS IN DER VERTIEFUNG

Änderungen vorbehalten/ Subject to alterations!

GRUBENMASSE UNI-LIFT 3500 CLT / NT

Oberkante Auffahrschiene bodeneben, Schienenlänge 4700mm

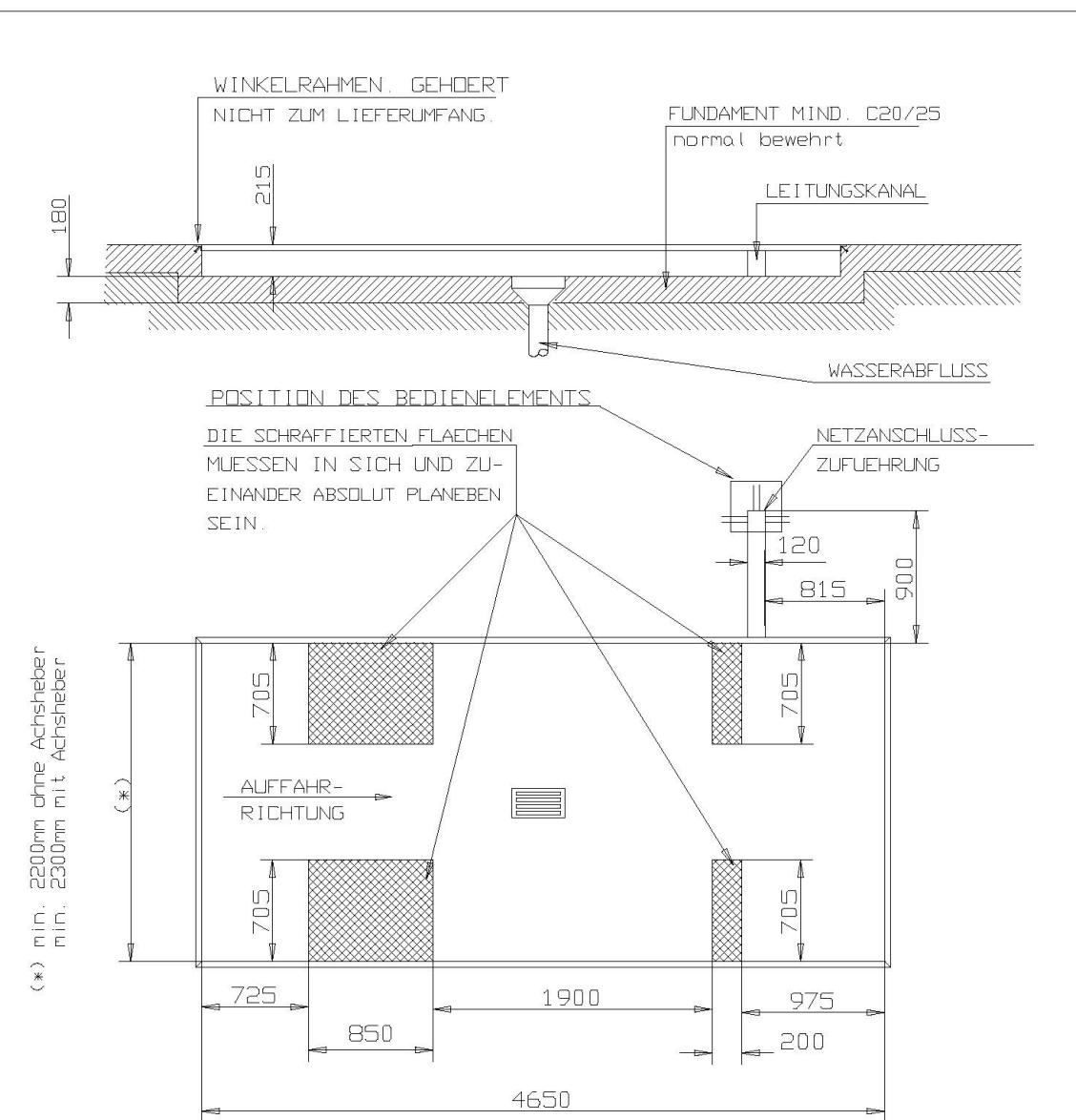
29.09.2000 / M.A.

2226-2_EINBAU

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ACHTUNG: GILT NUR FUER DIE SERIENAUSFUEHRUNG MIT STELLPLATTEN UND
BEIDSEITIGEN AUFFAHRKLAPPEN.

ANSTELLE DES LEITUNGSKANALS KANN AUCH EIN LEERROHR
 \varnothing 100 VERlegt WERDEN.

BAUSEITS IST FOLgendes ANzUBRINGEN: NETZANSCHLUSS 3 /N+PE, 400V, 50Hz, KABELLAENGE CA. 2m
WASSERABFLUSS IN DER VERTIEFUNG

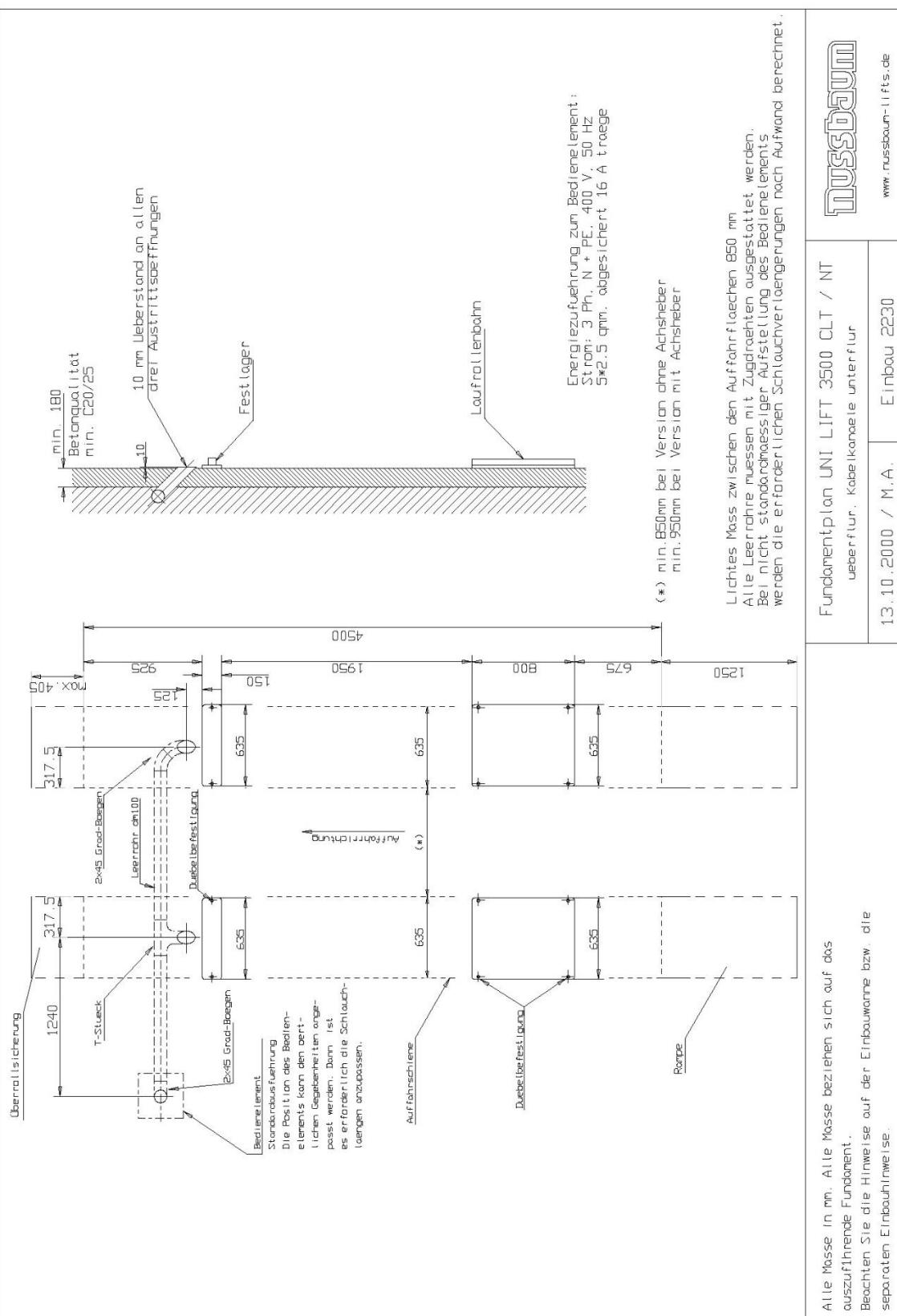
GRUBENMASSE UNI-LIFT 3500 CLT / NT

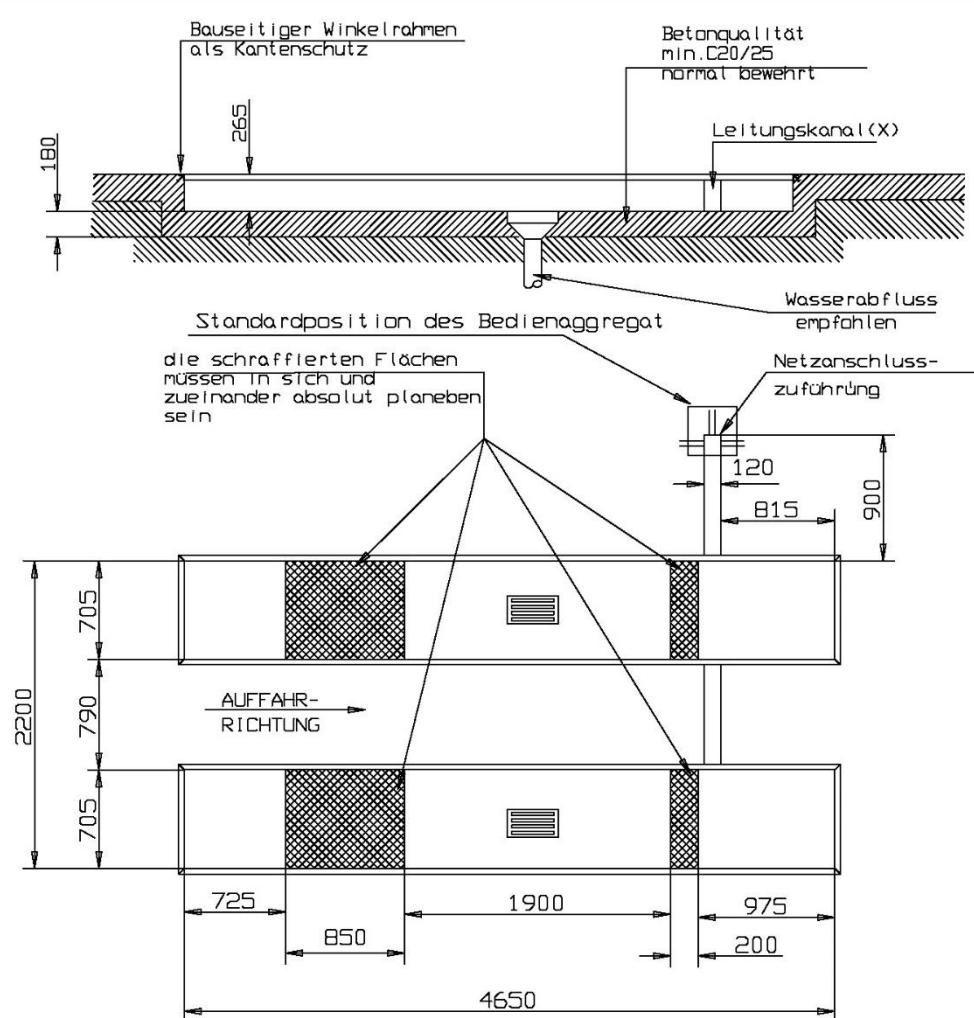
mit durchgehender Grube fuer Achsheber, Oberkante Auffahrschiene bodeneben,
Schienenlaenge 4500 mm

04.10.2000 / M.A

EINBAU2227

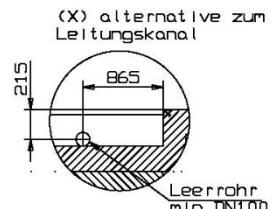
NÜßBAUM
HEBETECHNIK
FERTIGUNGSTECHNIK + MASCHINENBAU
77694 KEHL-BODERSWEIER





ACHTUNG:
Gültig nur für die Serienausführung mit Fest- und Loslager und beidseitigen Auffahrklappen.
Anstelle des Leitungskanals kann auch ein Leerrohr min. DN100 verlegt werden.

Bauseits am Bedienelement bereitstellen:
Netzanschluss: 3PH, N+PE, 400V, 50Hz
Absicherung: 16 Ampere träge



Alle Massen in mm. Alle Massen beziehen sich auf das auszuführende Fundament. Beachten Sie die Hinweise auf der Einbauwanne bzw. die separaten Einbauhinweise.

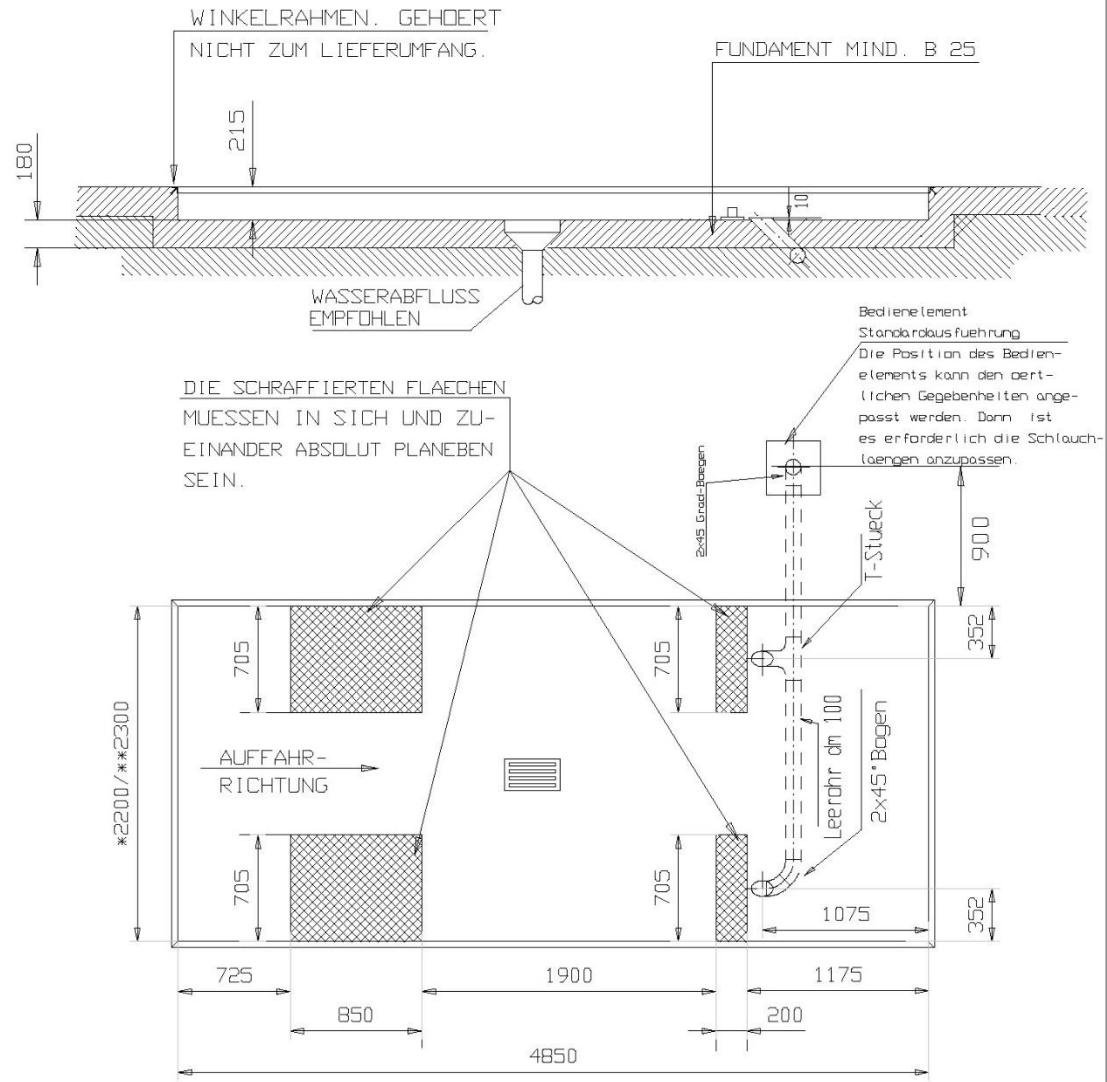
UNI-LIFT 3500 NT/CLT Plus AMS
Streifenfundament, Oberkante Achsmess-
Set bodeneben.

25.10.2000 / M.A.

Einbau 2232

Nussbaum

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* Version ohne Achsheber
** Version mit Achsheber

ACHTUNG: GILT NUR FUER DIE SERIALENAUSFUEHRUNG MIT STELLPLATTEN UND BEIDSEITIGEN AUFFAHRKLAPPEN.

ANSTELLE DES LEITUNGSKANALS KANN AUCH EIN LEEROHR dm 100 VERlegt WERDEN.

BAUSEITS IST FOLGENDES ANZUBRINGEN: NETZANSCHLUSS 3 /N+PE, 400V, 50Hz, KABELLAENGE CA. 2m
WASSERABFLUSS IN DER VERTIEFUNG

Fundamentplan UNI LIFT 3500 CLT / NT

Komplettfundament (für Achsheber) Oberkante Auffahrschiene bodeneben.

Kabelkanal unterflur, Schienenlänge 4700 mm

16.03.06 // M.G.

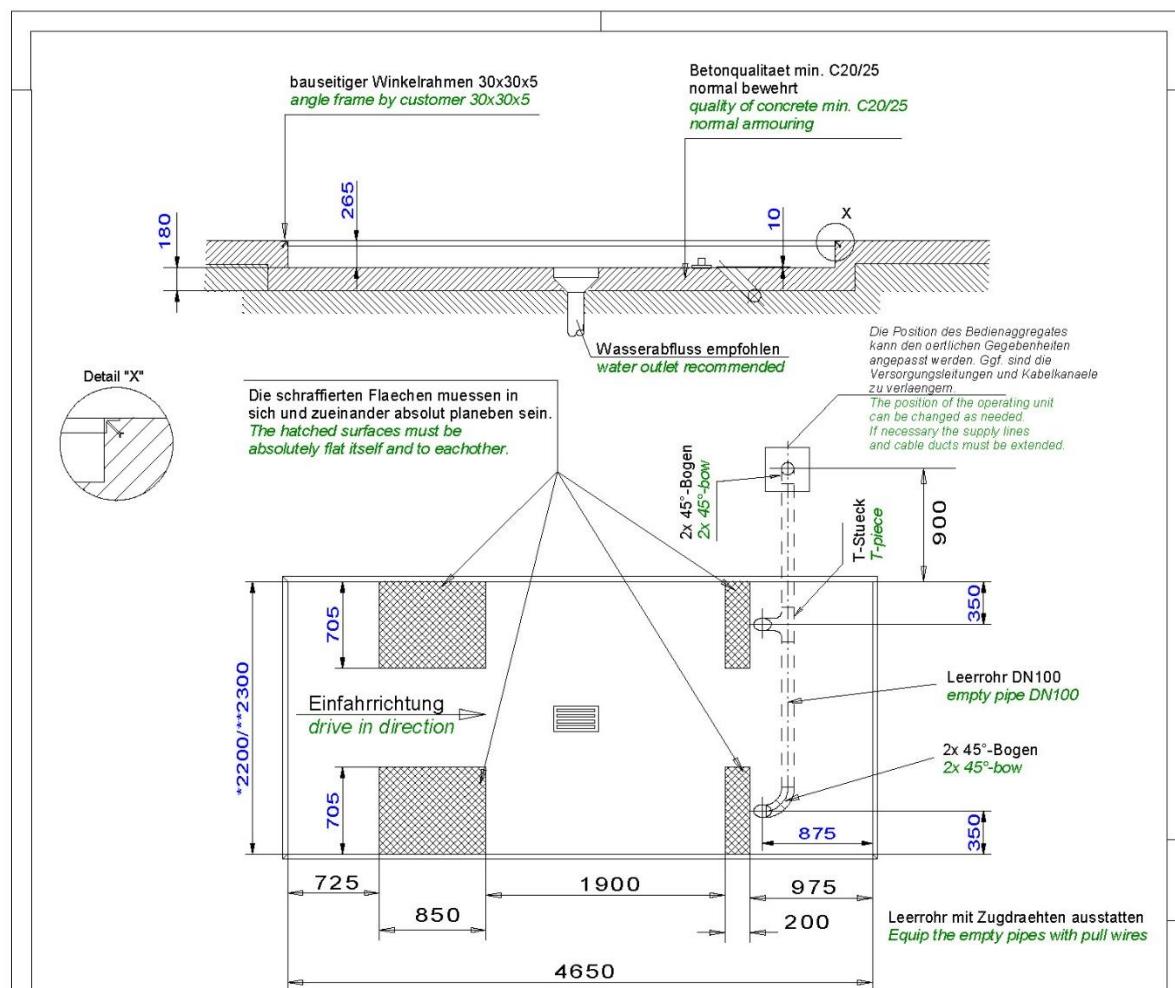
3016-1 EINBAU

Dussbau

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FERTIGUNGSTECHNIK + MASCHINENBAU

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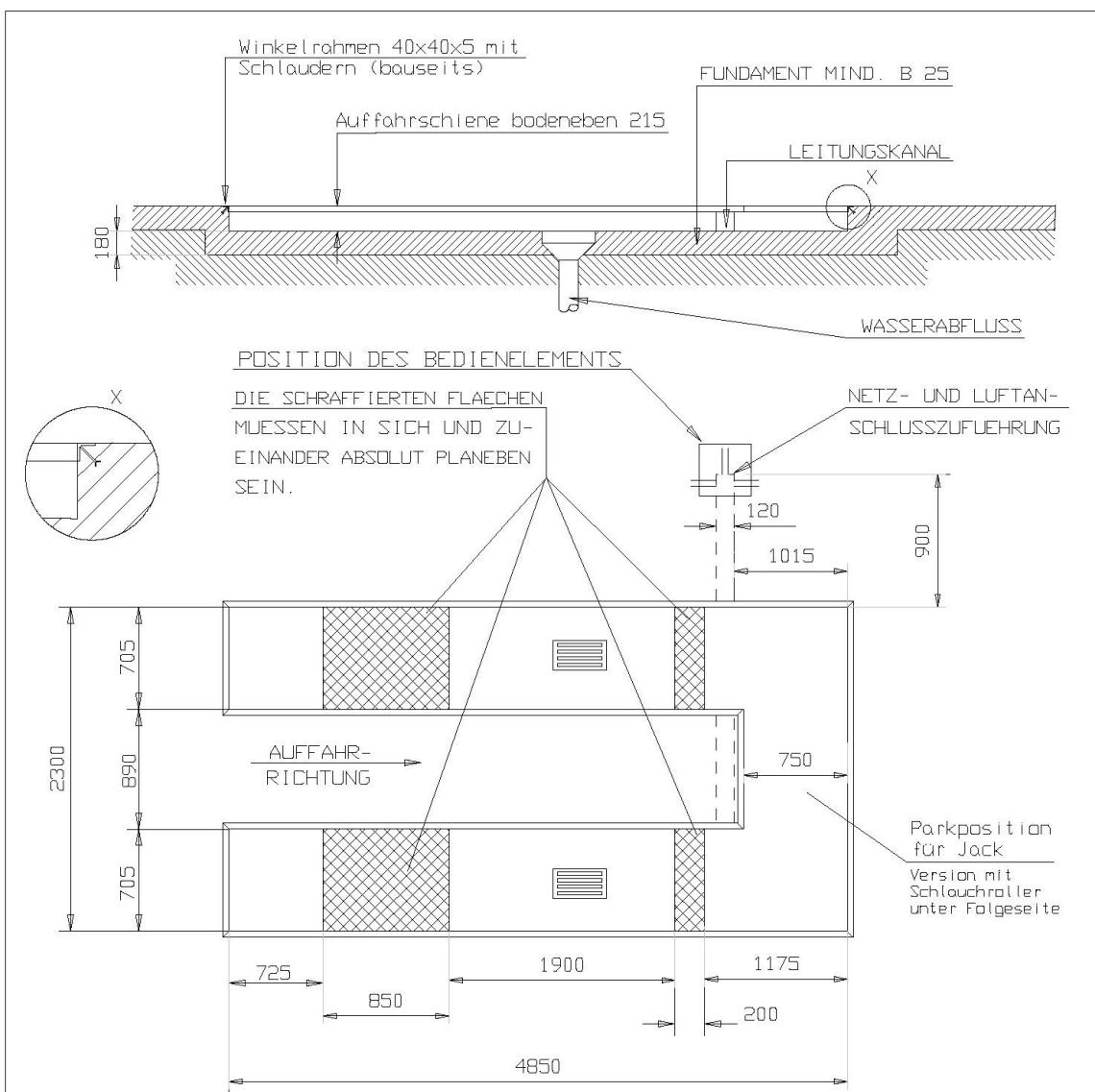
* Version ohne Achsheber
** Version mit Achsheber
* version without axle jack
** version with axle jack

Bauseite an der Bediensaeule bereitstellen:
Netzanschluss: 3PH,N+PE,400V,50Hz
Absicherung: 16 Ampere traeger
Kabellaenge: ca.2m, 5x2,5mm²
Druckluft optional fuer Jack, Innendurchmesser 6mm, 6-10bar
Prepared by customer at the operating column:
power supply: 3PH,N+PE,400V,50Hz
fuse: 16 Ampere, time lag
cable: approx.2m, 5x 2,5m²
air pressure optional for jack, inner diameter 6mm, 6-10bar

Alle Maße in mm! / all dimensions in mm!
Mass- und Konstruktionsaenderungen vorbehalten! / dimensions and design changes reserved!

Wir weisen in unseren Plänen auf die Mindestanforderung des Fundamentes hin, jedoch der Zustand der örtlichen Gegebenheiten (z.B. Untergrund etc.) obliegt nicht unserer Verantwortung. Die Ausbildung der Einbausituation muss vom planenden Architekten bzw. Statiker im speziellen Fall individuell spezifiziert werden.
We point out the minimum requirement of the foundation in our plans. The condition of the specific local situation (for example: ground under the foundation) does not lie our responsibility.
If necessary an architect must be consulted.

				Projektionsmethode 1 ISO 5456-2		Bennung / designation	
-	-	-	-	Datum	Name	UNI-Lift 3500NT PLUS AMS	
-	-	-	-	Bearb.	17.01.2003	M.G.	Rechteckfundament Schienenlaenge 4500mm, Oberkante AMS, bzw. Radfreiheber bodeneben rectangle foundation, platform length 4500mm, alignmentset, wheel free lift even with floor
-	-	-	-	Gepr.			
-	-	-	-				
-	-	-	-				
a	Uebersetzung hinzu	21.08.18	MH	Zeichnungsnr. / drawing number		6080_EINBAU	
ind.	Aender. / modification	Datum	Name				



ACHTUNG: GILT NUR FÜR DIE SERIENAUSFÜHRUNG MIT STELLPLATTEN UND BEIDSEITIGEN AUFFAHRKLAPPEN.
ANSTELLE DES LEITUNGSKANALS KANN AUCH EIN LEERROHR ØM 100 VERlegt WERDEN.

Bauseits ist am Bedienteil folgendes bereitzustellen:
Für ausreichende Länge der Versorgungsleitungen ist zu sorgen.
Netzanschluss 3/N+PE, 400 V, 50 Hz.
Luftanschluss leichter Durchmesser 6mm, Druck 6 bar
Wasserabfluss in der Vertiefung.

Alle Maße in mm. Änderungen vorbehalten!

Fundamentplan UNI-LIFT 3500 CLT/NT

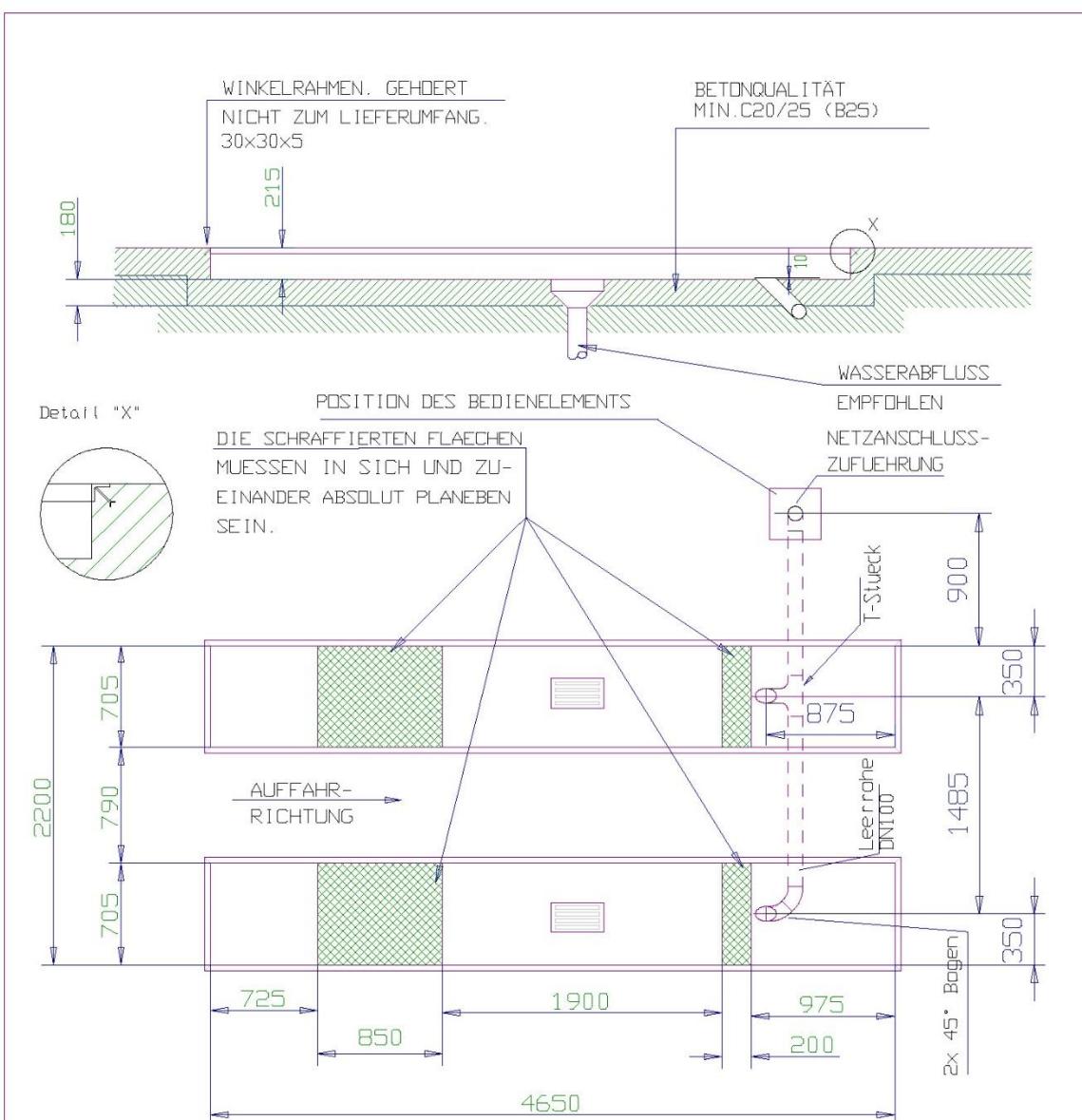
Ohne Radfreiheber	Parkposition für Jack	Schiene 4700 mm
Ohne Achsmeßset	mit Schlauchrollen	

12.02.03 // M.G.

6089 EINBAU

nussbaum

TEL 07853/899-0 FAX 07853/8787
www.nussbaum-lifts.de
77694 KEHL-BODERSWEIER



BAUSEITS IST FOLgendes anzubringen: NETZANSCHLUSS 3 /N+PE, 400V, 50Hz, KABELLAENGE CA. 2m
WASSERABFLUSS IN DER VERTIEFUNG EMPFOHLEN

Änderungen vorbehalten/ Subject to alterations!

Fundamentplan UNI-LIFT 3500 CLT/NT

OBERKANTE AUFFAHRSCHIENE BODENEBEN, SCHIENENLÄNGE 4500 MM

22.06.07//M.G.

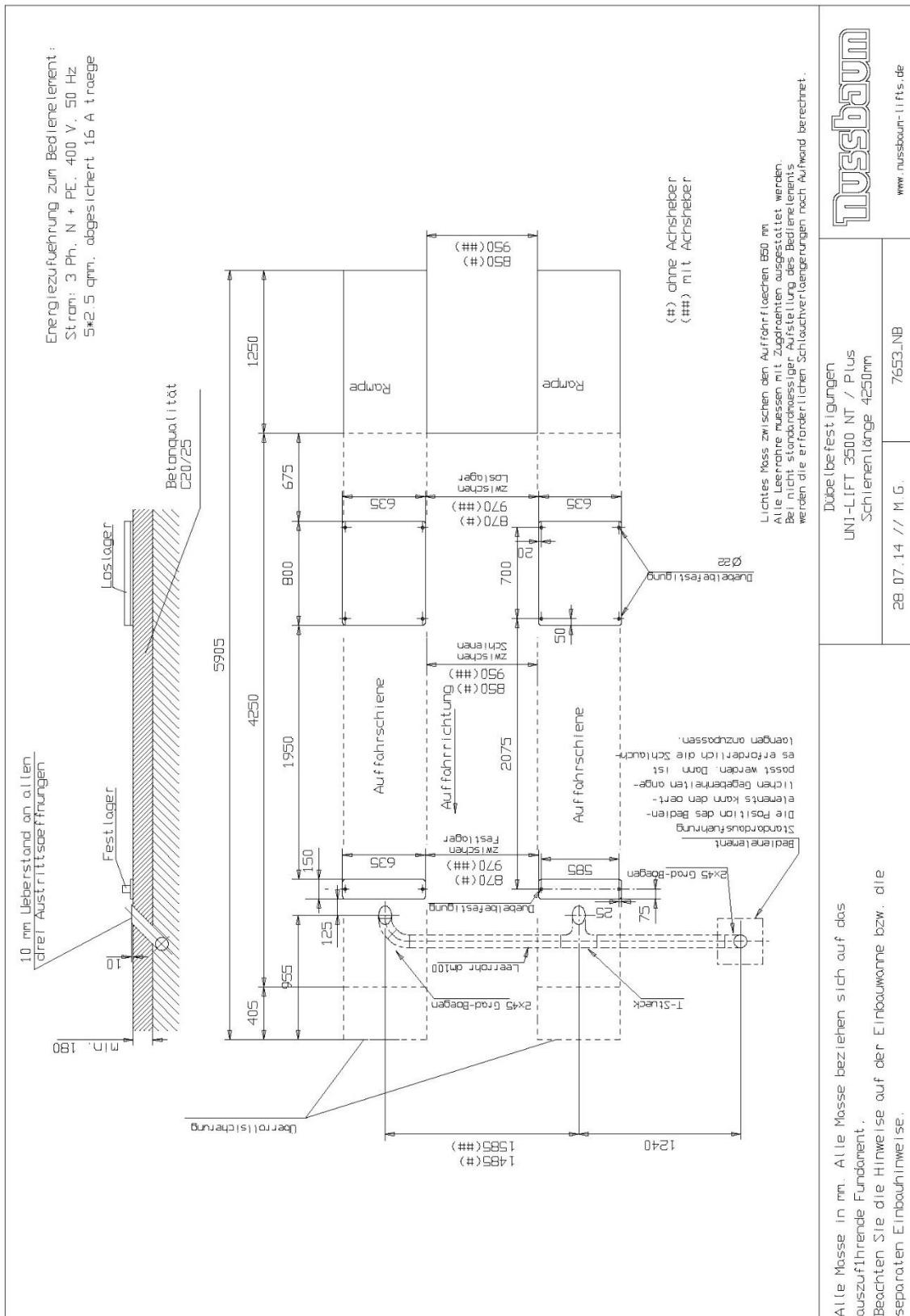
6534_EINBAU

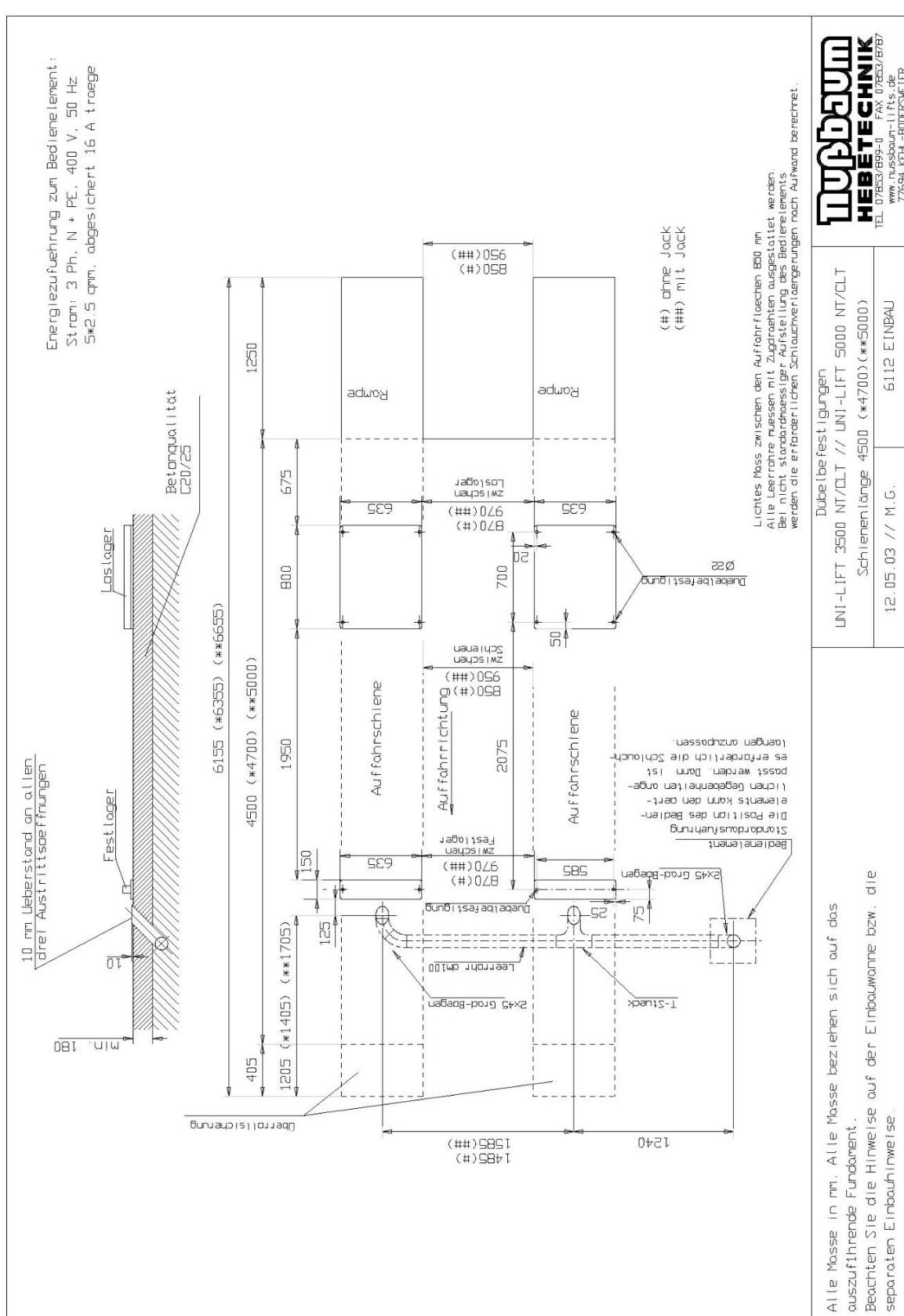
nussbaum

TEL 07853/899-0 FAX 07853/8787
www.nussbaum-lifts.de

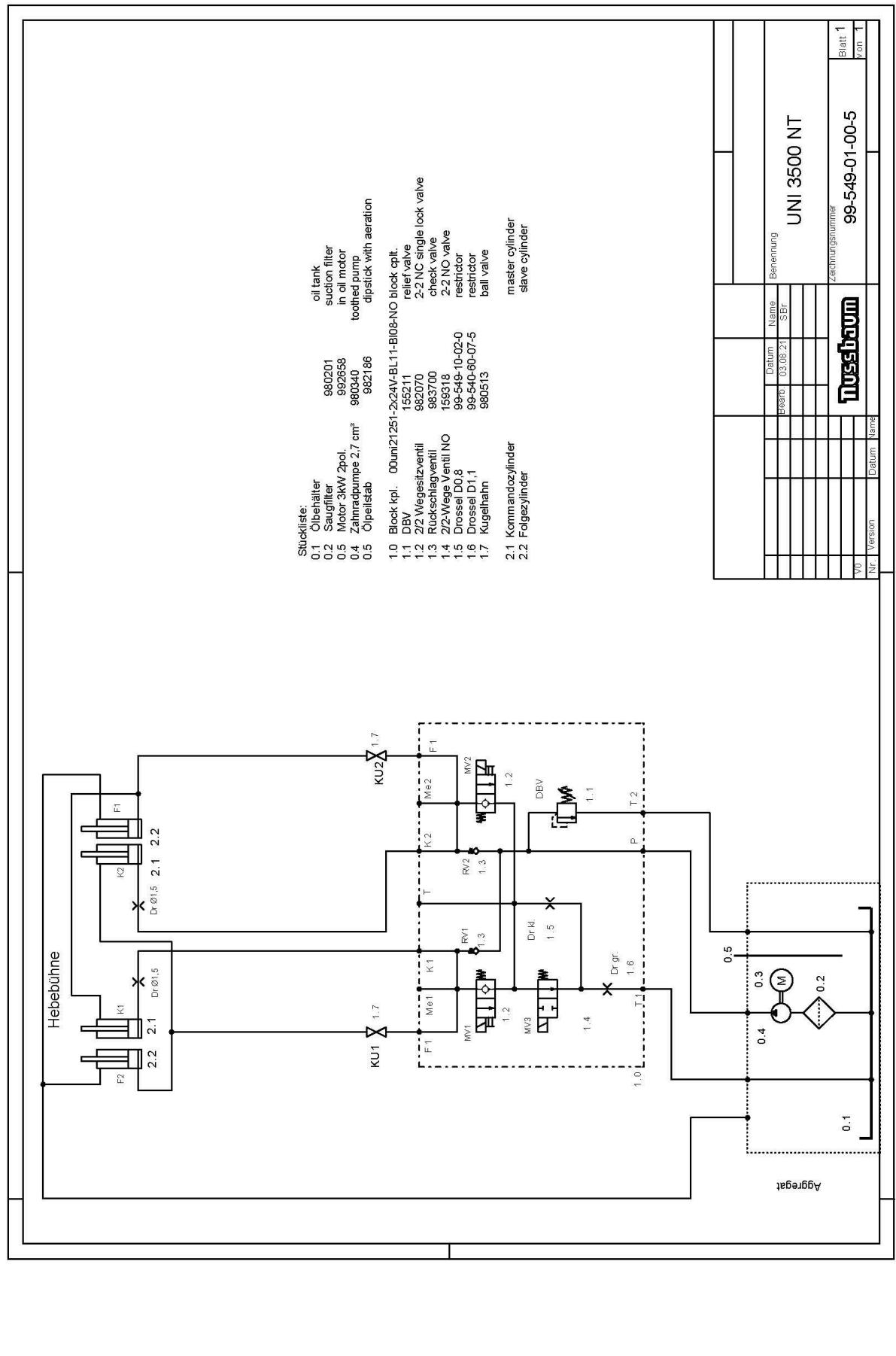
77694 KEHL-BODERSWEIER

3.5 Dowel drilling pattern

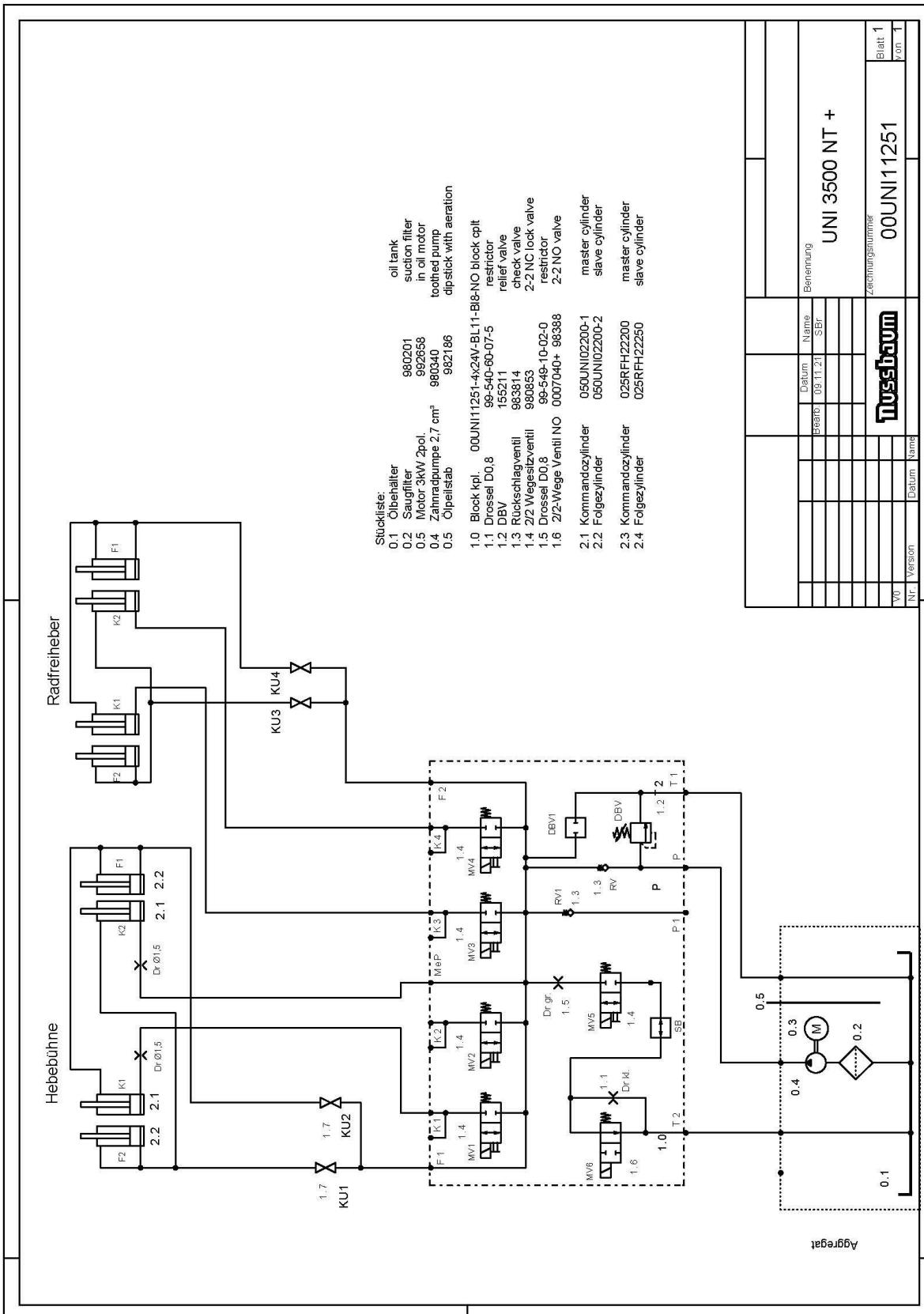




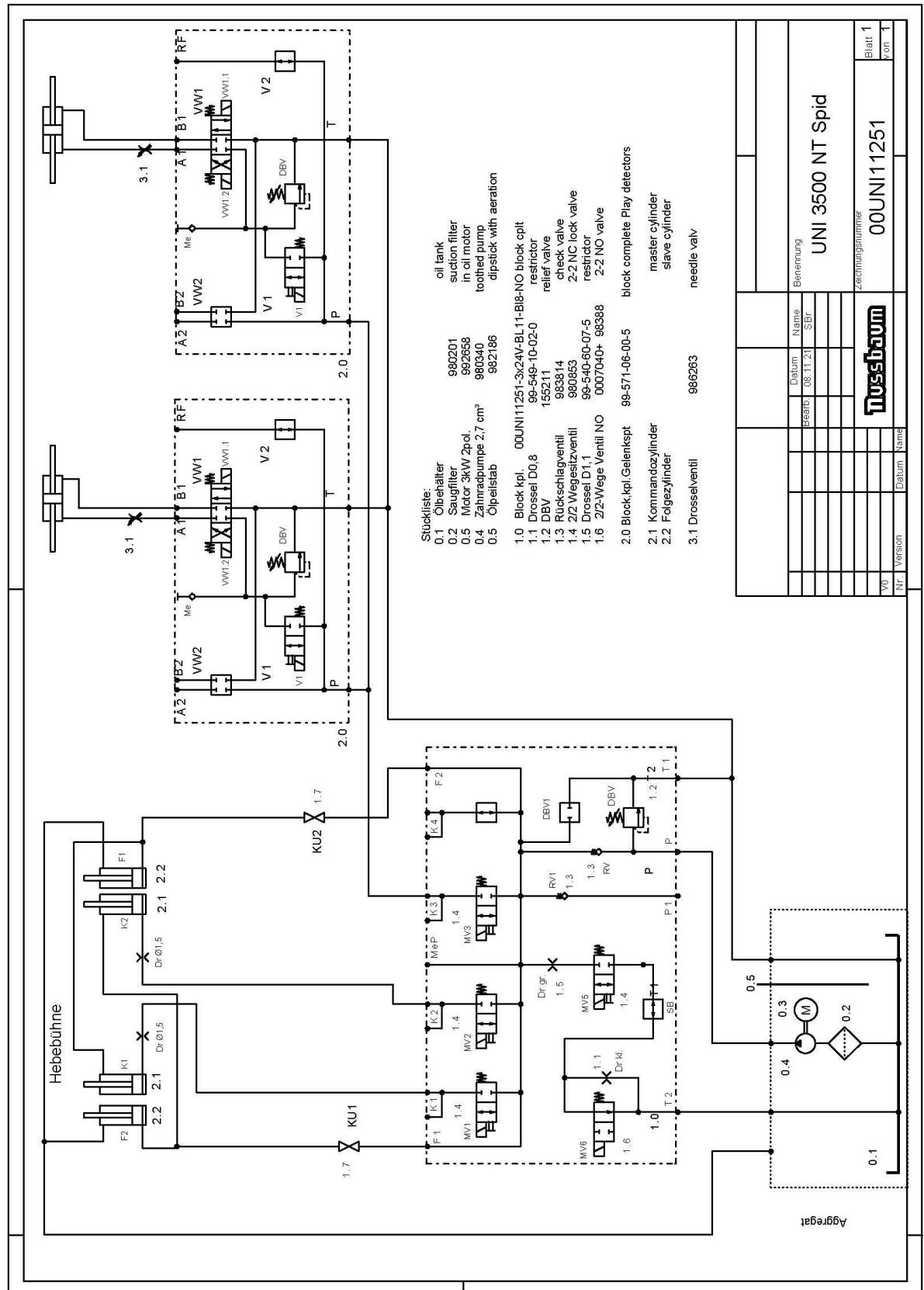
3.6 Hydraulic diagram (without wheel free lift)



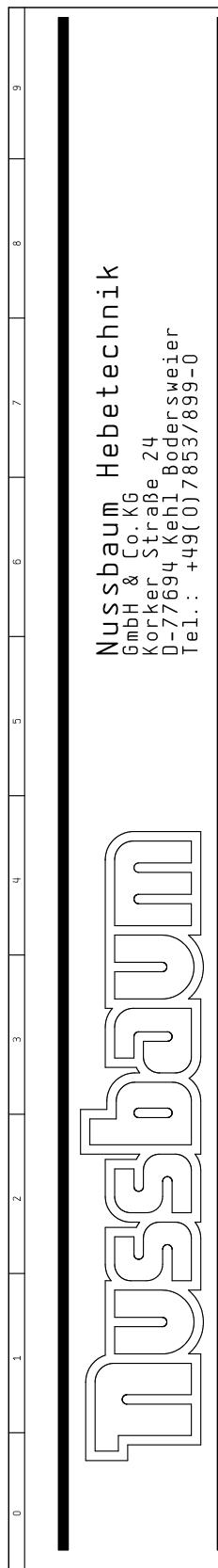
3.7 Hydraulic diagram (with wheel free lift)



3.8 Hydraulic diagram (with play detector)



3.9 Electrical diagram drawing (without wheel free lift)



SCHALTPLAN

Erdung nach örtlichen Vorschriften
Vor Inbetriebnahme prüfen, ob Motornennstrom mit Motorschutzrelais
übereinstimmt. Alle Klemmteile auf Ordnungsgemäße Verbindung und alle
Kontaktschrauben auf festen Sitz prüfen.
Vor Inbetriebnahme Verdrahtung und Steuerung auf richtige Funktion
überprüfen. Keine Inbetriebnahme von unbefugter Seite vornehmen lassen.
Änderungen vorbehalten

Nussbaum Hebetechnik
GmbH & Co. KG
Körker Straße 24
D-77694 Kehl Bodensee
Tel.: +49(0)7853/899-0

OBJEKT : UniLift NT
ANLAGE :
KUNDE :
SCHALTPLANNR: UniLift NT 11/12/001

1.) Schaltpläne und Schaltunterlagen

Die Schaltpläne werden von uns nach bestem Beurteilung angefertigt. Für beigestellte Schaltpläne und Schaltunterlagen wird von uns keine Gewähr für die Richtigkeit dieser Unterlagen übernommen. Diese werden vom Käufer nach dem Kaufvertrag überlassen. Unterlagen des Herstellers aufzufordern, werden von uns nur nach dem Kaufvertrag überlassen.

2.) Funktionsprüfung der Schaltanlagen

Schaltpläne sind keine Serienzeugnisse. Bei der Prüfung des Schalterschrankes im Werk können Fehler festgestellt werden. Der Betreiber ist verpflichtet, die Schaltanlage zu erneutern. Dies kann durch uns zu erfolgen, wenn es sich um eine lebenswichtige Betriebsmittel unseres Auftrages handelt. Mängel werden im Rahmen unserer Gewährleistung bei der Inbetriebnahme bereichtigt. Nach Abschluß der Prüfung darf keine Maßnahmen mehr vorgenommen werden.

Nach einer Leistungsfähigkeitserklärung unsererseits wird die Prüfung abgeschlossen. Die genommene Schaltanlage wird während nur der ersten vier Jahre eine Garantie enthalten. Schaltanlagen werden lediglich nur gegen Berechnungen für Nachbesserungen durch Dritte können wir nicht anerkennen.

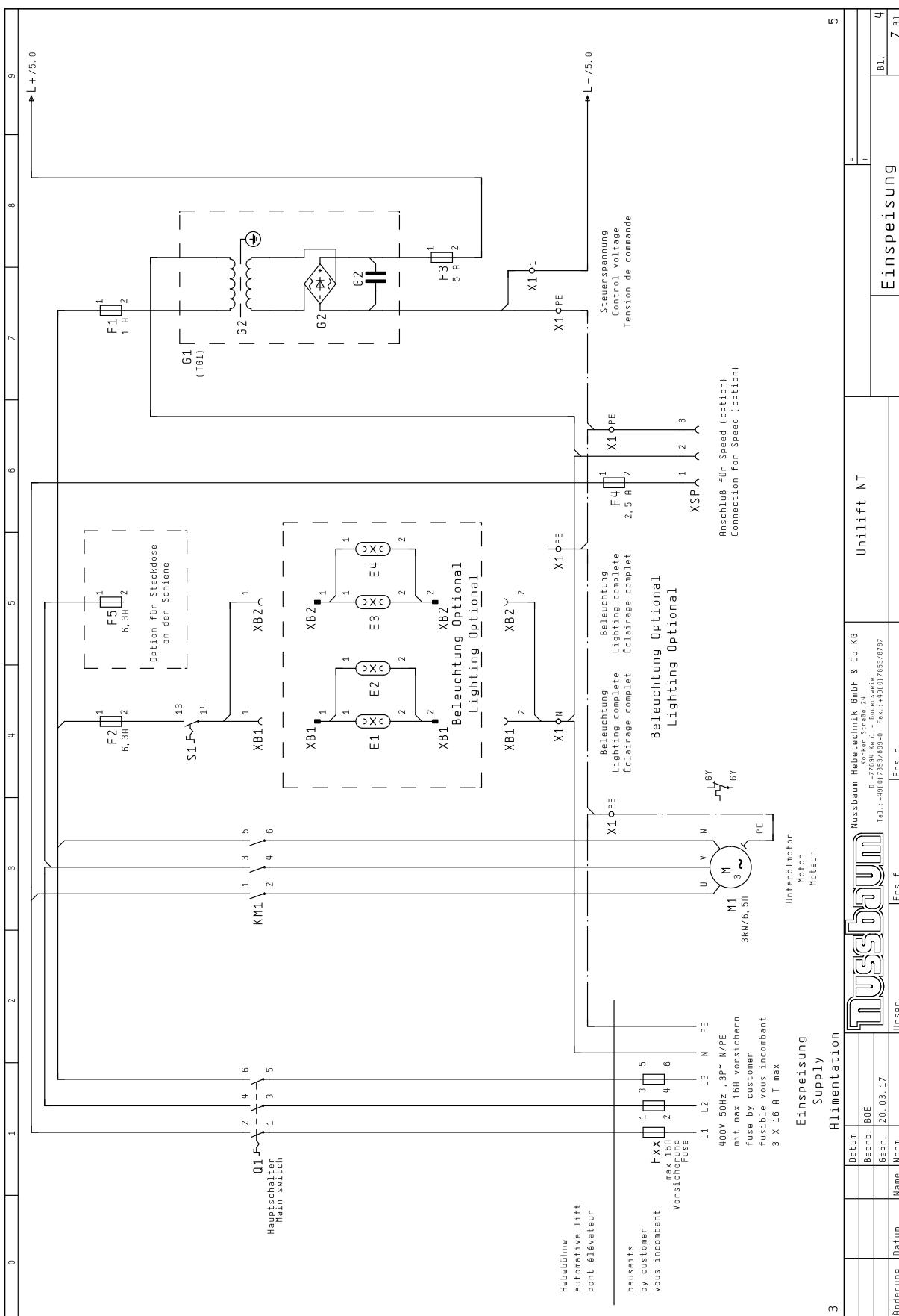
3.) Sicherheitsprüfung und Schutzmaßnahmen

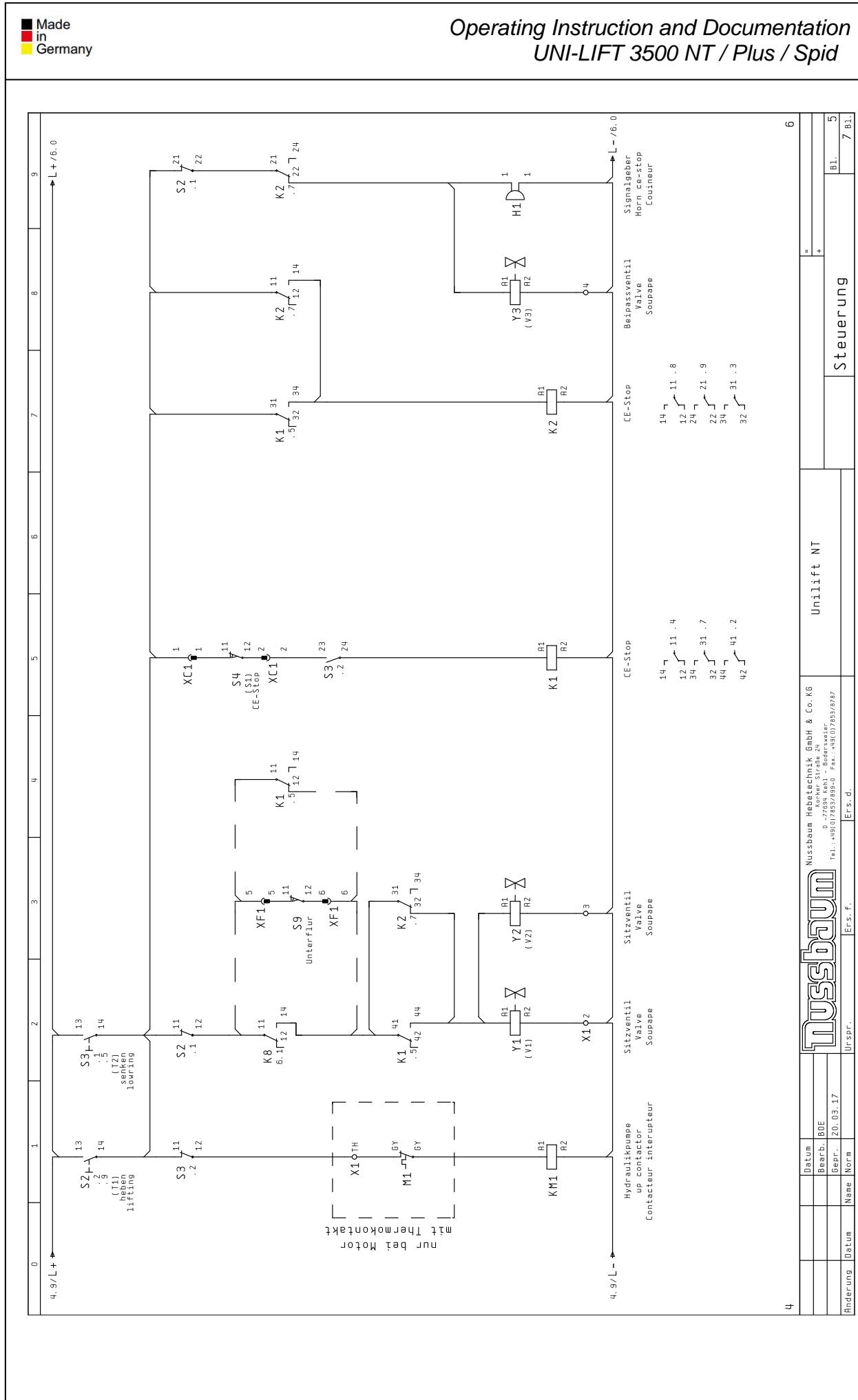
Der Schalterschrank wurde unter Beachtung der anerkannten Regeltechnik nach VDE 0100/013 sowie für Überspannungsschutzvorschriften der elektrischen Anlagen und Betriebstechnik geprüft. Der Schalterschrank wurde durch geprüft und geprüft.

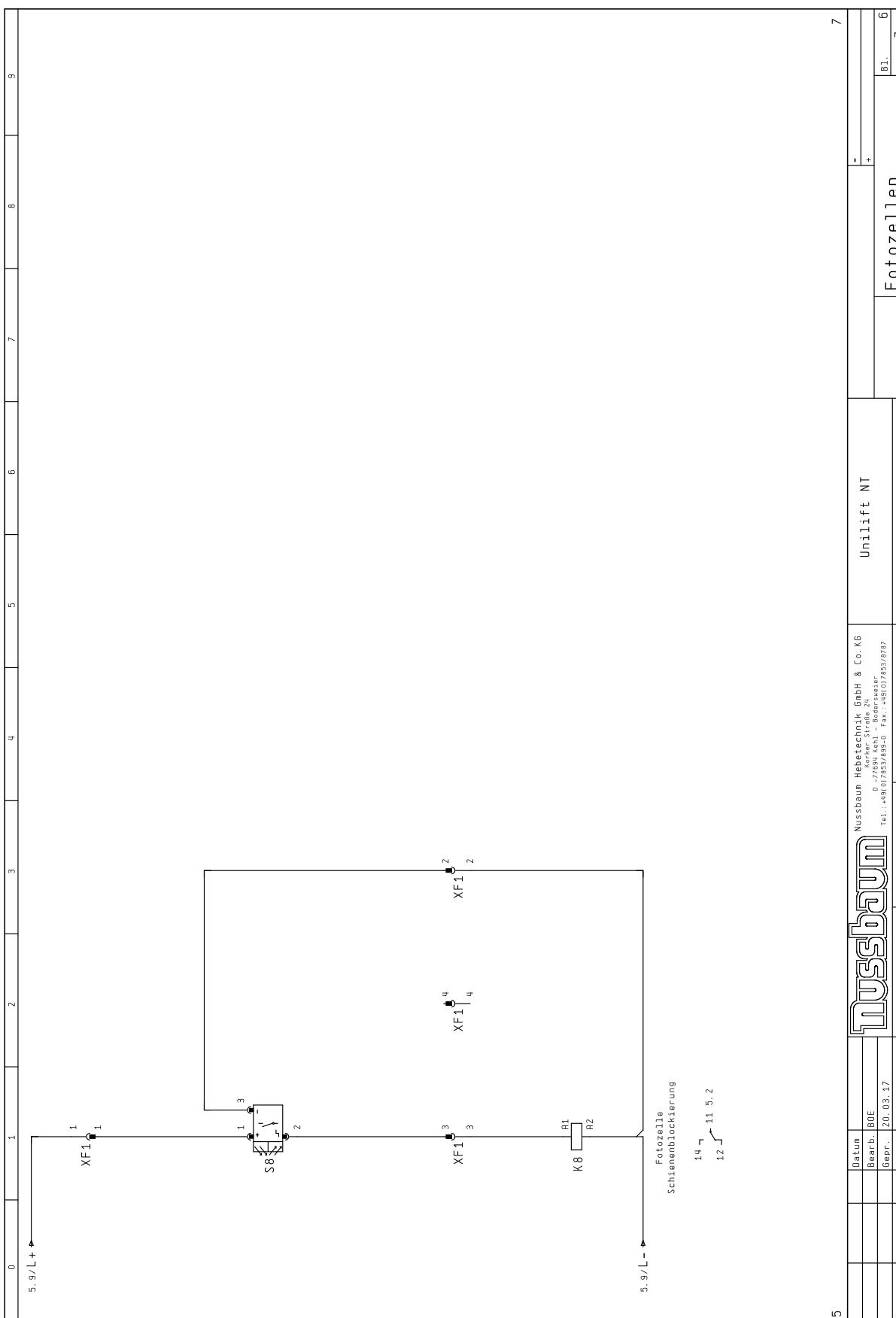
1. Spannungsprüfung und/oder Isolationsprüfung des Schalterschrankes nach VDE 0100/5, 73.
2. Prüfung der Kfz-Symmetriekreislaufprüfung nach VDE 0100/11, 87.
3. Prüfung von Schutzmaßnahmen und Schutzschaltung nach VDE 0100/5, 73, Part 4.
4. An Schalterschranken wurden die folgenden Schutzmaßnahmen durchgeführt:
 - 1. Schutz gegen direkte Berührungen nach VDE 0100/5, 73, Part 5.
 - 2. Schutz bei indirekter Berührungen nach VDE 0100/5, 73, Part 5.

Diese Schaltpläne sind unser geistiges Eigentum.
Sie dürfen ohne unsere Genehmigung weder vervielfältigt noch Dritten weitergegeben werden!

Änderung	Datum	Datum	Bearb.	Bearb.	Datum	Ursr.	Nussbaum Hebetechnik GmbH & Co. KG				
							Tel.: +49(0)7853/899-0	Fax: +49(0)7853/8987	UniLift NT	Deckblatt	B1. 1 7 Bl.







5

7

Nussbaum Hubetechnik GmbH & Co. KG	UniLift NT
Kettensicherung	
D - 7759 Nennig	Tel.: +49 (0)7653/859-0
Bodenseeweg 1	Fax: +49 (0)7653/8787

6

Bl.

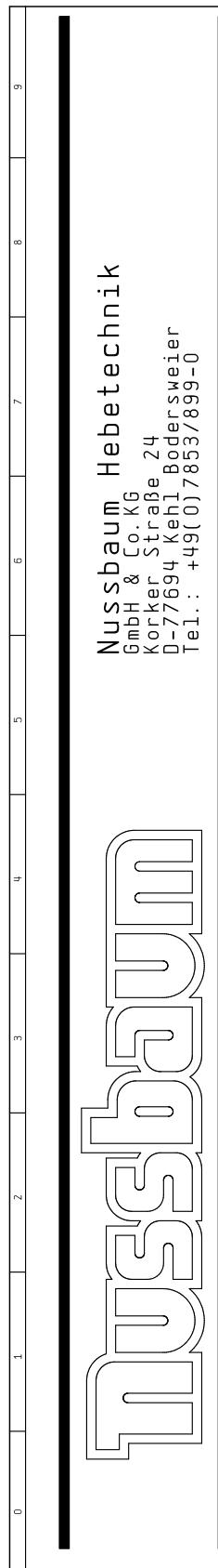
7 Bl.

Stückliste

6

Materialliste				B1 7
Unterstellung	Datum	Ers. f.	Urspr.	
Beard, BOE	20.03.17			Unilink NT
Name Norm				

3.10 Electrical diagram drawing (with wheel free lift)



SCHALTPLAN

Erdung nach örtlichen Vorschriften
Vor Inbetriebnahme prüfen, ob Motorenstrom mit Motorschutzrelais
übereinstimmt. Alle Klemmstellen auf Ordnungsgemäße Verbindung und alle
Kontaktschrauben auf festen Sitz prüfen.
Vor Inbetriebnahme Verdrahtung und Steuerung auf richtige Funktion
überprüfen. Keine Inbetriebnahme von unbefugter Seite vornehmen lassen.
Änderungen vorbehalten

1.) Schaltpläne und Schaltunterlagen

Die Schaltläne werden von uns nach bestellten Anforderungen erstellt für benötigte alle Schaltpläne und Schaltanlagen für die Schaltungen zu den von uns nach gemeinsamer Absprache vereinbart wurden. Diese werden von uns nur nach dem vom Auftraggeber überlassenen Unterlagen des Herstellers ausgeführt.

2.) Funktionsprüfung der Schaltanlagen

Schaltläne wird keine Sicherheitsbegutachtung durchgeführt. Bei der Prüfung der Schaltanlagen im Werk können Fehler entdeckt werden, die in Betrieb waren, auch bei vorgängiger Prüfung lassen sich diese Fehler nicht immer vermeiden. Mängel werden oder hat durch uns zu erfolgen, die ist grundsätzlich beständigkeit unseres Auftrages. Mängel werden im Falle einer unsererseits Gewährleistung bei der Instandhaltung bestätigt, keine Haftung übernommen. Nach Verbesserungen entsprechend der Berechnung von Schaltplänen bei nicht vorgenommenen Schaltanlagen werden bestaub nur gegen Berechnung genäß unsern Service-Bedingungen ausgeführt. Kosten für Nachbesserungen durch Dritte können wir nicht anerkennen.

Diese Pläne sind auf einem CAD-System erstellt worden
Um die Pläne immer auf dem aktuellen Stand zu halten, bitten wir
Änderungen nur durch uns vornehmen zu lassen.

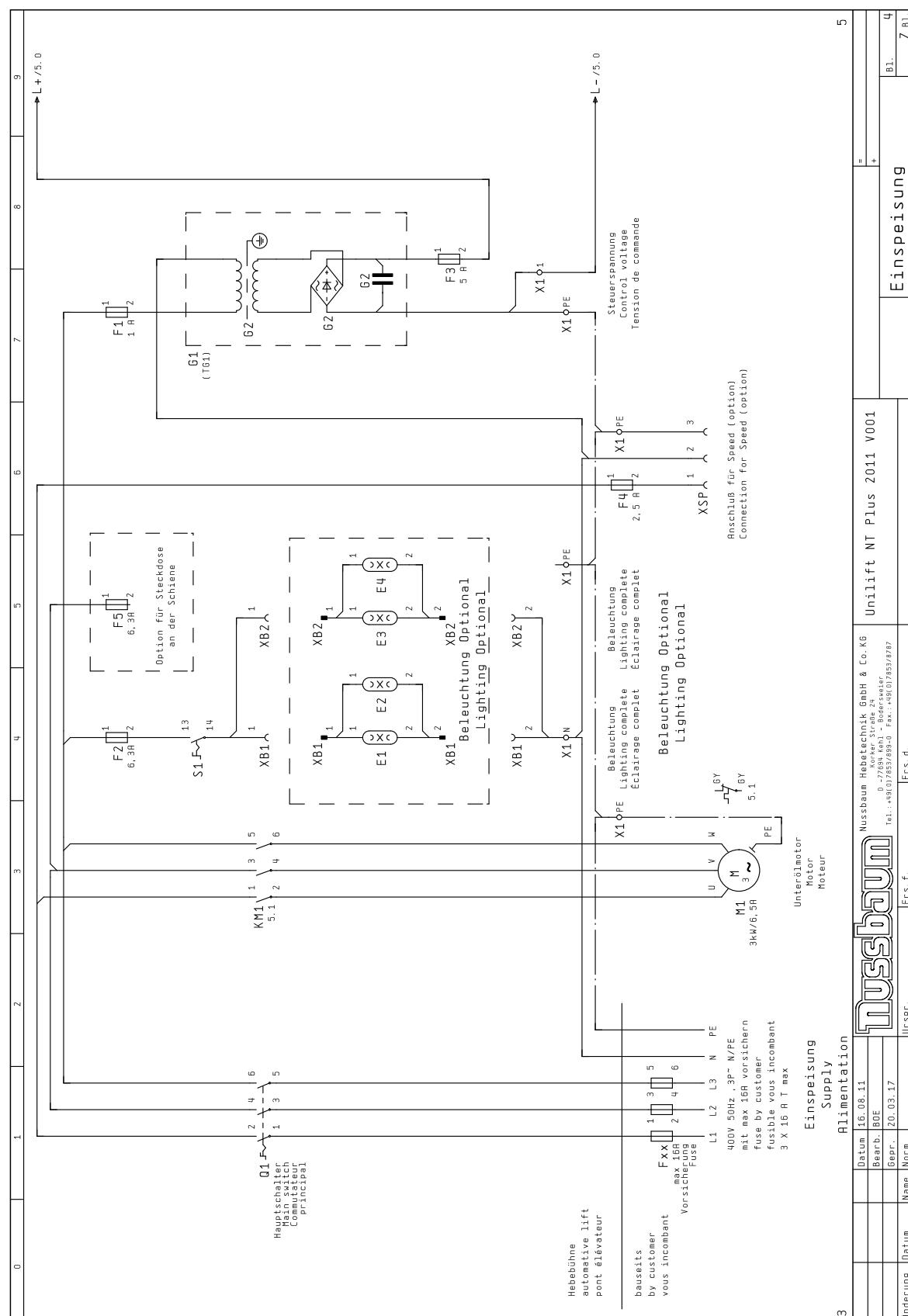
OBJEKT : Unilift NT Plus 2011 V001
ANLAGE :
KUNDE :
SCHALTPLANNR: Unilift NT Plus 08/11/001

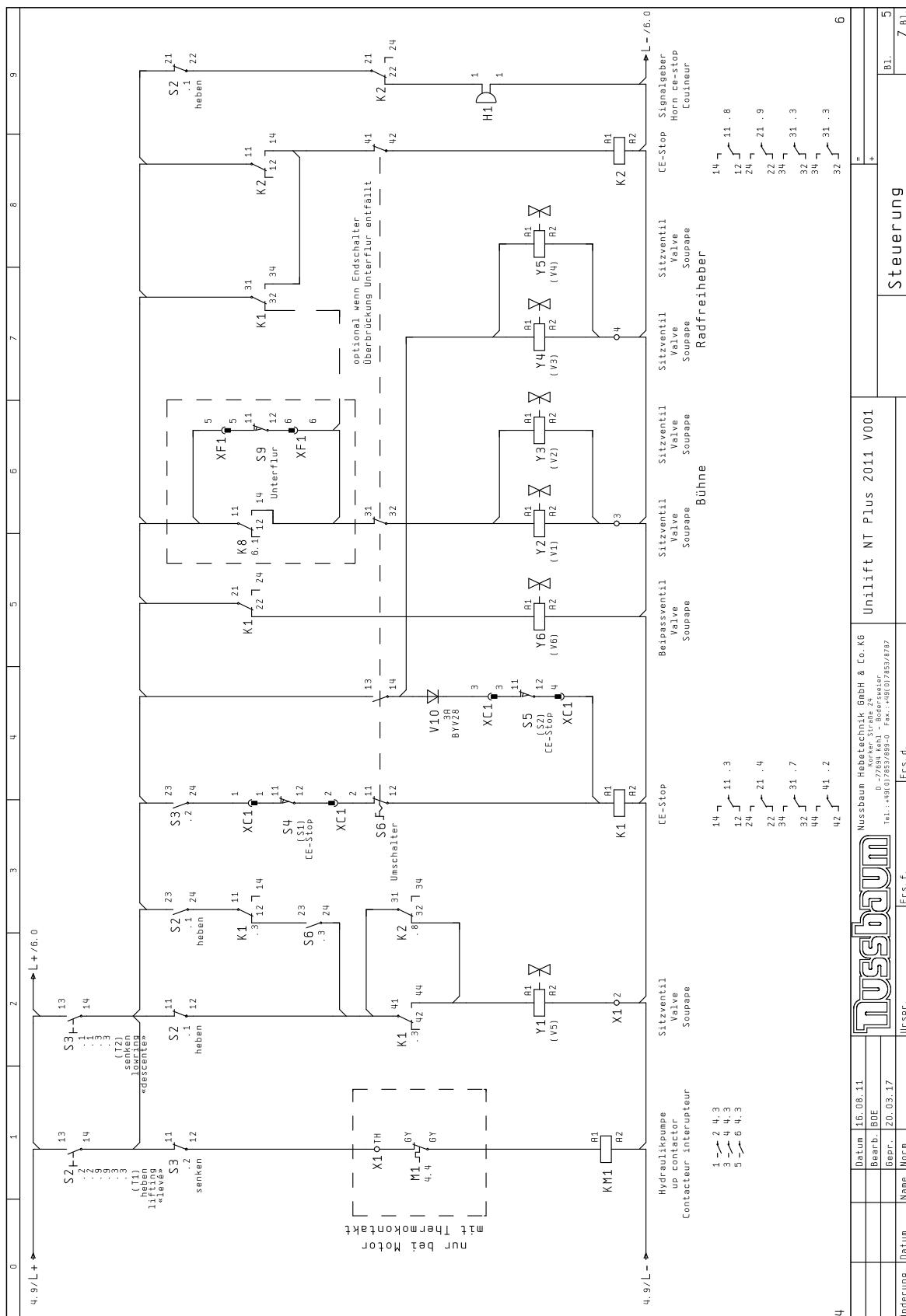
3.) Sicherheitsprüfung und Schutzmaßnahmen
Der Schaltzähler wurde unter Berücksichtigung der anerkannten Regeln der Technik nach bestellte Sicherheitszähler ausgerichtet bzw. hergestellt und geprüft. Diese folgende Prüfungen wurden durchgeführt:
1. Spannungsprüfungen und/oder Isolationsprüfung des Schaltzählers nach VDE0105/73.
2. Spannungsprüfungen und/oder Isolationsprüfung der angelegten Schaltzähler bei indirektem Betrieben nach VDE0105/73. Part 2.
3. Prüfung der Schaltzähler nach VDE0105/73. Part 4.
In Schutzmaßnahmen wurden getroffen:
2. Schutz 959m direkt am Betrieb nach VDE0105/73. Part 5.
Zur Anwendung kam die Schaltzähler nach VDE0105/73. Part 5.

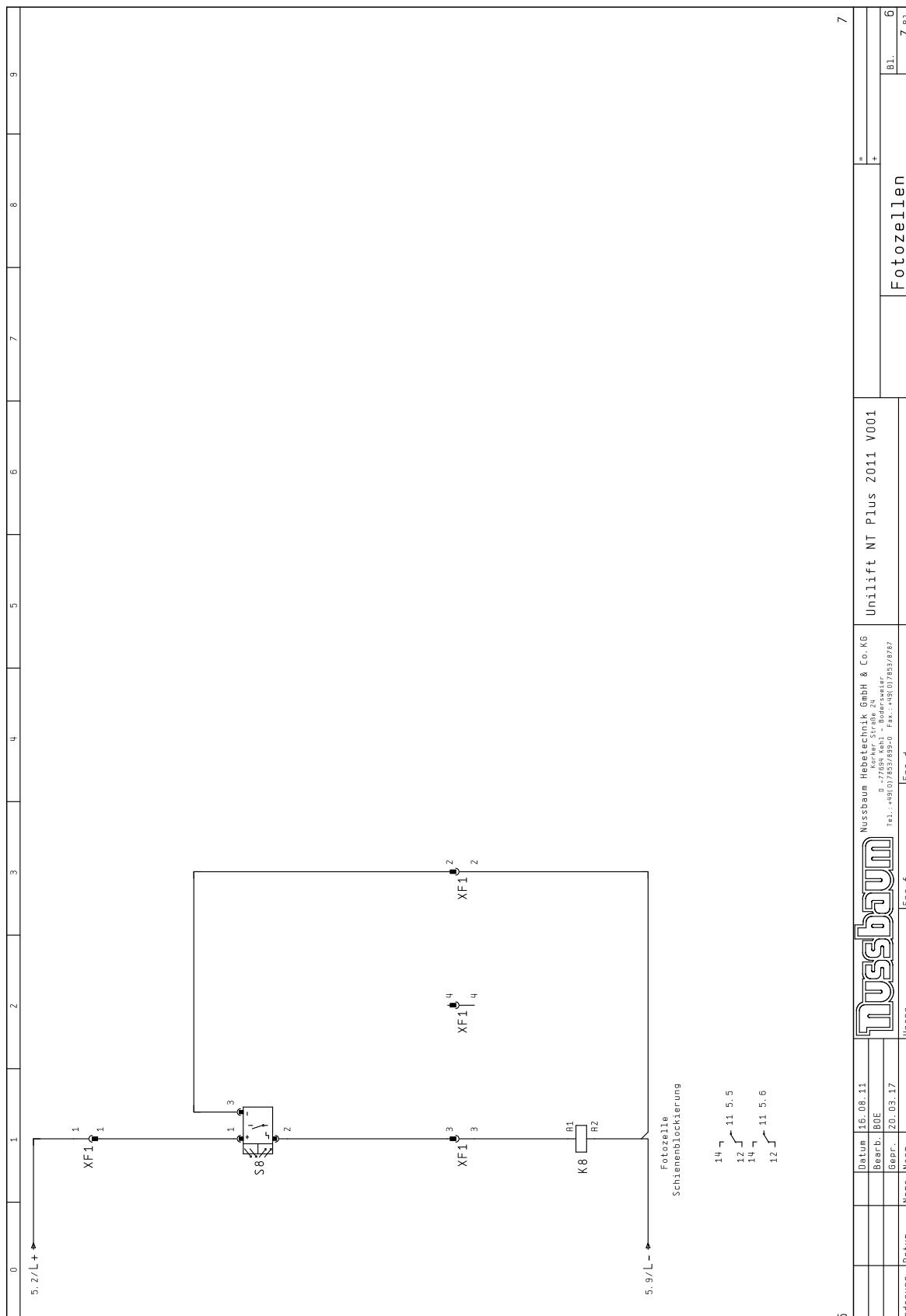
Diese Schaltpläne sind unser geistiges Eigentum.
Sie dürfen ohne unsere Genehmigung weder ver-
vielfältigt noch Dritten weitergegeben werden!

Aenderung	Datum	Name	Norm	Datum	Baar	BOE	Gepr.	20.03.17	Urspr.	Nussbaum Hebeotechnik GmbH & Co. KG Korker Straße 24 D-77694 Kehl - Bodersweier Tel.: +49(0)7853/899-0 Fax: +49(0)7853/8977	Unilift NT Plus 2011 V001 Ers. f.	Deckblatt	B1_1 7 Bl.
												2	

Inhaltsverzeichnis







Stückliste

0	1	2	3	4	5	6	7	8	9
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WP00030 24.02.1994

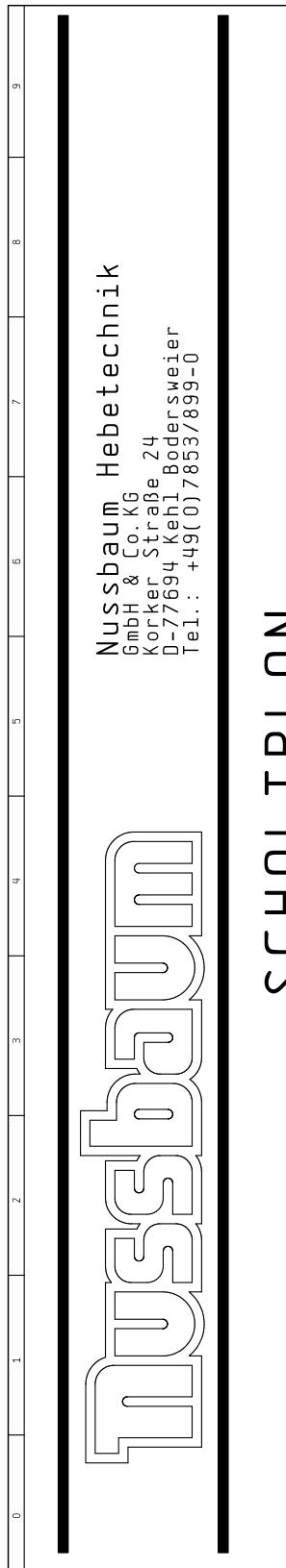
Bauteilbezeichnung Menge Bezeichnung Typen Nummer Lieferant Artikelnummer

F1	1	2 * Stableuchte, 4 * Klemmkästen	BELEUCHTUNG UNILIFT	Nussbaum	0301NU03302
F3	1	Sicherungsklamme Trenner 5*20 mm	BELEUCHTUNG UNILIFT	Nussbaum	0301NU03302
F1	1	Festsicherung	FEINSICHERUNG	Entrelac	9906611
F2	1	Sicherungsklamme Trenner 5*20 mm	FEINSICHERUNG	Entrelac	9906612
F3	1	Festsicherung	FEINSICHERUNG	Entrelac	9906614
F3	1	Sicherungsklamme Trenner 5*20 mm	FEINSICHERUNG	Entrelac	9906615
F4	1	Festsicherung	FEINSICHERUNG	Entrelac	9906616
F4	1	Sicherungsklamme Trenner 5*20 mm	FEINSICHERUNG	Entrelac	9906617
F4	1	Festsicherung	FEINSICHERUNG	Entrelac	9906618
G1	1	Trafo + Gleichrichter + Kondensator	TRFO 1-FH	Schneider	990114
H1	1	Digitaland akustischer Signaleiter	B/P 228	Daltron Components	990311
H1	1	INDUSTRIEALIAS 24V 4 Wechsler	274I	BIR	990267
H1	1	Industrielaissocell für 4 Wechsler	110178	BIR	990311
H2	1	Industrielaissocell für 4 Wechsler	274I	BIR	990267
H2	1	Industrielaissocell für 4 Wechsler	110178	BIR	990311
H8	1	INDUSTRIEALIAS 24V 4 Wechsler	110178	BIR	990267
H8	1	Industrielaissocell für 4 Wechsler	110178	BIR	990267
H11	1	Leistungsschütz 5,7 kW 28 V DC	11B612.01 0 -24V DC	Lovato electric	990812
H1	1	Untersteller Motor 3kW/6,5kW 50Hz 400V	2750min-1	Leroy Somer	990445
H1	1	Hauptsch. Not-Bus 3P 16A 5,5kW	A 105/3...0200-EV/SU	Marz GmbH	990443
H1	1	Wechselseit 25A-Drehben. 1,0 rest. (M22)	M22-NR	Moeller	990446
H1	1	Kontaktblock 1S (M22)	M22-HK10	Moeller	990112
S1	1	Druckklappe schwarz 2S 20 Marquard	1663.0101	Marquardt GmbH	990334
S2	1	PVC-Klippe für Schalter Marquard	203.201.011	Marquardt GmbH	990331
S3	1	Druckklappe schwarz 2S 20 Marquard	1663.0101	Marquardt GmbH	990334
S3	1	PVC-Klippe für Schalter Marquard	203.201.011	Marquardt GmbH	990331
S6	1	Kontaktseit 25A-Drehben. 1,0 rest. (M22)	M22-NR	Moeller	990446
S6	1	Kontaktblock 1S (M22)	M22-HK11	Moeller	990113
S6	1	Kontaktelement 1S (M22)	M22-K01	Moeller	990111
S8	1	DR05P-DRP-04, 0-3DE; 0-4m	SPRINGEUREFLEXLITHISTER	Bernstein	990901
S9	1	TI-U1 AD 90	GRÄNZFASTER 10 1S KLEIN STANGE	Bernstein	990003

6

Bestellung	Datum	Datum	Nussbaum Hebeetechnik GmbH & Co. KG	Unilift NT Plus 2011 V001
			0 -7754 Kehl, Körber Straße 24 Tel.: +49(0)785/895-0, Fax: +49(0)785/98787	Ers. d.
Bestellung	Datum	Name	Materialiste	Bl. 7 Bl. 7

3.11 Electrical diagram SPID



Erdung nach örtlichen Vorschriften
Vor Inbetriebnahme prüfen, ob Motorennstrom mit Motorschutzrelais
übereinstimmt. Alle Klemmstellen auf Ordnungsgemäße Verbindung und alle
Kontaktschrauben auf festen Sitz prüfen.
Vor Inbetriebnahme Verdrahtung und Steuerung auf richtige Funktion
überprüfen. Keine Inbetriebnahme von unbefugter Seite vornehmen lassen.
änderungen vorbehalten

1.) Schaltpläne und Schaltunterlagen
Die Schaltpläne werden von uns nach bestem Gewissen angefertigt. Für bei Schaltungen wird von uns keine Gewähr für die Richtigkeit dieser eintritt insbesondere da wir keine Kenntnis von uns nach fremden Plänen werden von uns nur nach den Volumenführertragssachen überlassenen Unterlagen.

2.) Funktionsprüfung der Schaltanlagen
Schaltpläne sind keine Serienherzeugnisse. Bei der Prüfung des Schalttauchs fehlerfrei wie Fühler, Thermotage und Motoren nicht gebrauchten werden. Sämtliche Bauteile und Schaltungen sind ebenfalls immer aufgerichtet, dass sie sich leicht ablesen lassen. Es ist eine Tatsache, dass im Rahmen eines Betriebs der Betriebserfolg bei der Inbetriebnahme des Betriebs nicht zu gewährleisten ist. Der Inbetriebnahme ohne Hinzuweisung unseres Service wird deshalb keine Nachbesserungserlaubnis für die Herstellung von Schaltanlagen gewährt. Die Prüfung der Schaltanlagen kann nur durch einen geschulten Fachmann vorgenommen werden. Ein Betriebserfolg ist nicht gewährleistet.

Diese Pläne sind auf einem CAD-System erstellt worden.
Um die Pläne immer auf dem aktuellen Stand zu halten,
Änderungen nur durch uns vornehmen zu lassen

3.) Sicherheitsprüfung und Schutzmaßnahmen

Der Schallschrank wurde unter Beachtung der amerikanischen Regeln der Technik nach VDEI 0100/13 sowie der Unfallverhütungsvorschrift VBG/elektrische Anlagen und Betriebsmittel geprüft bzw. erichtet und geprüft.

Die Prüfung wurde durch die TÜV Nord im Januar 2010 vorgenommen.

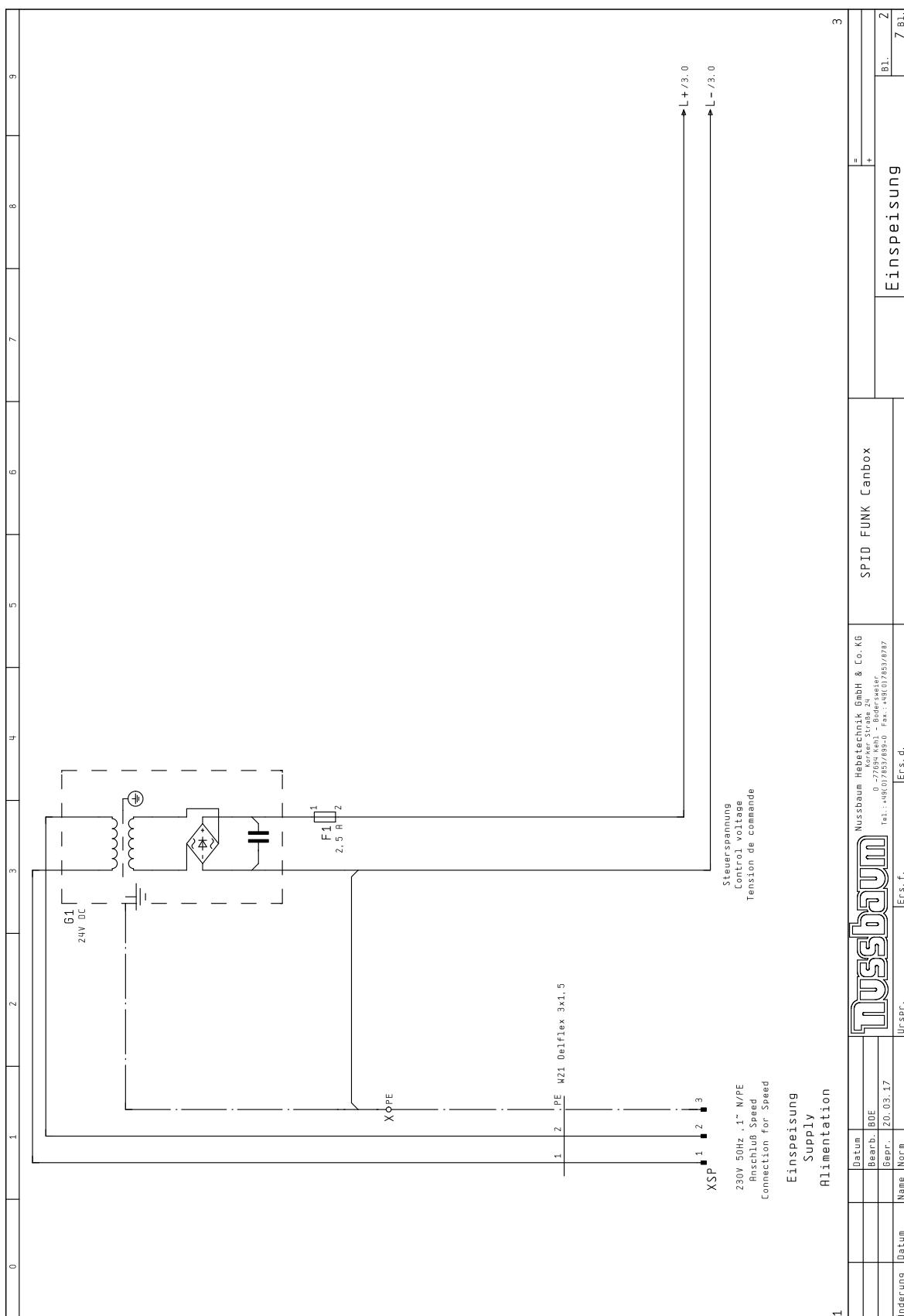
Die Prüfung bestand und die Prüfungsergebnisse sind im Bericht VDEI 0100/5.73, 21. Prüfung des Marktakts mit der angewandten Schutzzahlung nach VDEI 0100/5.73, nach VDEI 0100/09-77-75-Par.-22.

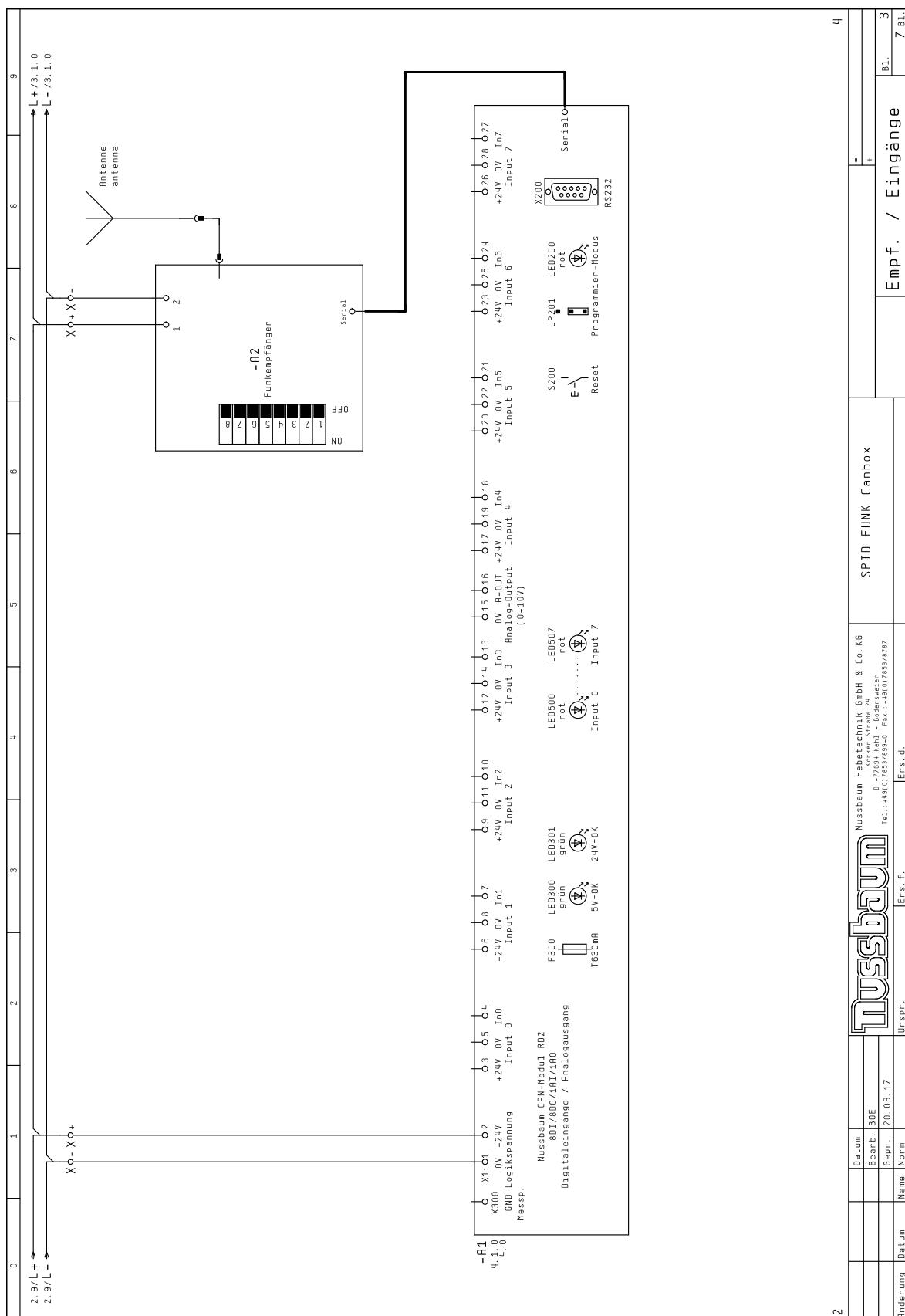
3. Funktionstestung und Stückprüfung nach VDEI 0100/5.73, Part 4.

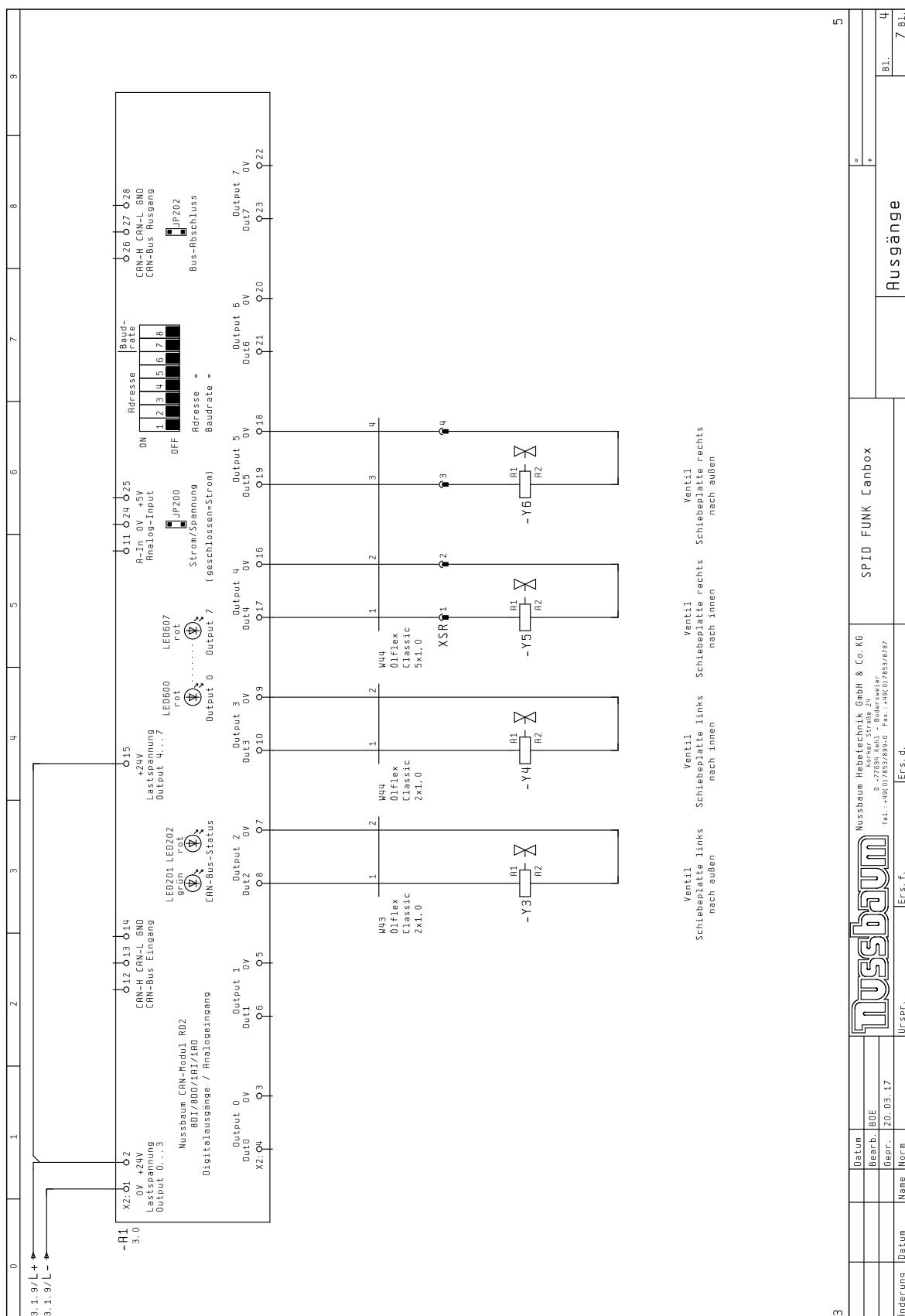
23. Schätzungsweise Anzahl der Kleiderbügeln nach VDEI 100/5.73, Part 4.

Diese Schaltpläne sind unser geistiges Eigentum.
Sie dürfen ohne unsere Genehmigung weder ver-
vielfältigt noch drucken weitergegeben werden!

Nussbaum Hebeotechnik GmbH & Co. KG Wernerstraße 24 D-7430 Tuttlingen Tel.: +49 (0) 7175 / 892-0 Fax: +49 (0) 7175 / 892-872	SP10 FUNK Canbox	Deckblatt	Bl.	1







Änderung	Datum	Datum	Bearb., BE	SPID FUNK Canbox
Norm	20.03.17	Ers. f.	Ü-SER.	Ausgänge

Bl. 4	Bl. 7 Bl. 1
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0 1 2 3 4 5 6 7 8 9



1987009P6K

Funktionen und Einstellung
siehe Bedienungsanleitung Funklampe

Functions and Adjustment
quad vide Operating manual Remote control

4		Datum 02.02.17	Nussbaum Hebelechnik GmbH & Co. KG	SPID FUNK Canbox	7
		Bearb. BoB	0 -77551 Gen 1 Bodenseewerke	=	
		Genc. 20.03.17	TeL.: +49(0)7153/893-0 Fax: +49(0)7153/87787	+	
Anlieferung	Datum	Name Norm.	Unterr.	Ers. f.	Bl. 5 7 Bl.

Stückliste					
Bauteilbezeichnung	Menge	Bezeichnung	Typen Nummer	Lieferant	Artikelnummer
XSP	1	Steckergehäuse 4 polig ku	2.105.50230251	RMP	990408
XSP	3	Flachsteckhülle Stecker 6..3mm	05147.123.111	RMP	990328
X	1	Schutzleiterkabel 0..Z.5/6..P..RHD	0..1..5/6..RHD	Entrelac	990165
X	4	Reihenleiste 0..1..5/6..RHD grau schn-schn	0..1..5/6..RHD	Entrelac	990183
G1	1	Trafo + Gleichrichter + Kondensator	TRFO 1-PH	Schmidler	990102
F1	1	Sicherungsklemme Trenner 5x20 mm	M4x8 SF	Entrelac	990681
F1	1	Feinsicherung	FEINSICHERUNG	GIF	590124
-R1	1	Can-Box Komplett 8 Dig In / 8 Dig Out	01501003050-BW	Nussbaum	01501003050-BW
-R2	1	Funktmodul Empfänger komplett	FUNKMODUL EMPFÄNGER	Nussbaum	001001301016
-Y3	1	Ventilstecker Bosch klein für Pneumatik	GERÄTESTECKER	Bosch GmbH	980982
-T4	1	Ventilstecker Bosch klein für Pneumatik	GERÄTESTECKER	Bosch GmbH	980982
XSR	4	Flachsteckhülle Stecker 6..3mm	05147..123..111	RMP	990328
XSR	4	Flachsteckhülle Buchse 6..3mm CUZN ohne ISD	08632..123..211	RMP	990329
XSR	1	Buchsteckgehäuse 4 polig ku	2.105.50280250	RMP	990407
XSR	1	Steckergehäuse 4 polig ku	2.105.50280251	RMP	990408
-Y5	1	Ventilstecker Bosch klein für Pneumatik	GERÄTESTECKER	Bosch GmbH	980982
-Y6	1	Ventilstecker Bosch klein für Pneumatik	GERÄTESTECKER	Bosch GmbH	980982
A3	1	Funklampe für alle Spaid	1997009P6K	NB-Schild	1997009P6K

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 mustn't be more than 4000 kg for the automotive lift, 3500 kg for the automotive lift with wheel free lift.
- The laden weight of the lifted vehicle must not be more than 3500 kg for the wheel free lift.
- The maximal axle load must not be more than 2300 kg for the SPID.
- The automotive lift must be lowered completely, before the vehicle is driving, in the provided direction, on the lift.
- During working with the lift the operating instruction has to be followed.
- At vehicles with low sub-ground clearance or with optional equipment (sport equipment) or sport-vehicles, it is to be tested previously whether damages can appear.
- Only trained personnel over the age of 18 years old are to operate this lift.
- Position the polymer supports as described of the vehicle manufacturer under the vehicle. (Version with wheel free lift)
- The correct position of the polymer pads has to be checked after the vehicle has been lifted a little bit.
- It's not allowed to stay under the lifted or lowered vehicle (except for the operator).
- Check the center of gravity of the vehicle if heavy parts are removed.
(Version with wheel free lift)
- It's not allowed to transport passengers on the lift or in the vehicle.
- It's not allowed to climb onto the lift or onto a lifted vehicle.
- The automotive lift must be checked from an expert after changes in construction or after repairing carrying pads.
- It's not allowed to start with operations at the lift before the main switch is switched off.
- During lifting or lowering the vehicle it must be observed from the operator.
- It's not allowed to install the standard-automotive lift in hazardous location or in washing bays.

5. Operating instructions



**The Safety Regulations must be observed during working with the automotive lift.
Read the safety regulations in chapter 4 carefully before working with the lift!**

5.1 Lifting the vehicle

- Drive vehicle over the lift, longitudinal axes on line of the lift.



(Wheel free lift): If necessary use the ramps to secure the safety ness of the vehicle.

- Block the vehicle against rolling, put into gear, use the parking brake.
- Check the dangerous places of the lift and be sure that there are no objects or people in the immediate area of the lift or on the lift.
- Switch on the control system; main switch on position "1" (see pic.1)
- Choose between main lift/ wheel free lift (see pic.1, 4)

- (wheel free lift) Position the polymer supports under the pick-up points which are described by the vehicle manufacturer. Do not lay them on edge! The vehicle might fall down!
- Raise the lift. Press the button „lifting“.
- (wheel free lift): Stop the lifting when the wheels are free to check the safe position of the vehicle on the polymer pads.
- Lift the vehicle on the working height. Press the button „lifting“ .



pic. 1: operation unit

- 1 main switch
2 button „lifting“
3 button „lowering“
4 reversing switch main lift/wheel free lift

5.2 Lowering the vehicle

- Check the dangerous places of the lift and be sure that there are no objects or people in the immediate area of the lift or on the lift.
- Choose between main lift/ wheel free lift (see pic.1, 4)
- Lower the vehicle to the working height or until the platform reaches the lowest point; press the button „lowering“ .
- Observe the complete process.
- Before the lift reaches the lowest position, it stops (approx. 150 mm). Let off the „lowering“. Control the dangerous places. Press the button again. You hear an acoustic signal until the lift reaches the lowest position.
- When the lift is in its lowest position, remove the polymer supports (wheel free lift)
- Drive the vehicle out of the lift if the lift (main lift) is in the lowest position.

5.3 Equalization of the platforms

Because there are two independent hydraulic systems, differences between the two rails should normally not appear when you operate the lift correctly.

Check possible mistakes before you equalize the two platforms (for instance a leakage of the hydraulic system or another external mistake)



**Equalize the rails only without load!
Before an equalization you have to remove any kind of load of the lift!**

An equalization could be necessary when one side isn't let down completely into the lowest position or if the loads of the two rails are very different of each other, for example.

Correct equalization:

Situation: One rail is higher than the other.

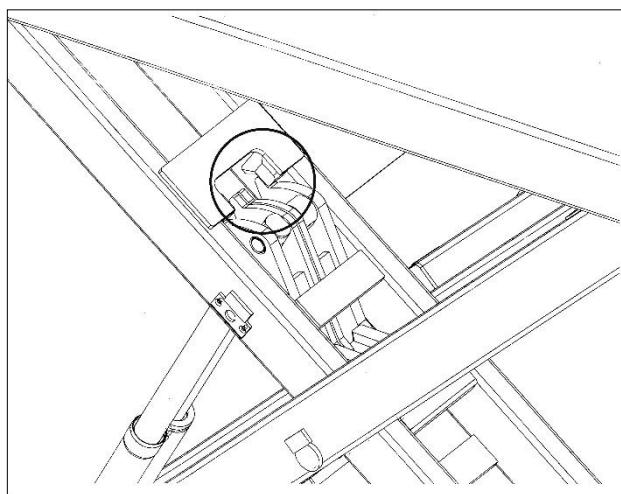
preparations/measures:

- Lower the lift as far as possible into the lowest position. Press button „lowering“.



pic. 2: ball valves for the equalization of the lift.

- Remove the covers of the operation unit (back side)
- Pull ball valve KU1 and press button „lowering“. One rail lowers. Put button and ball valve in normal (original) position again.
- Pull ball valve KU2 and press button „lowering“. The second rail lowers also. Put button and ball valve in normal position again.
- Repeat this process for the wheel free lift with the ball valves KU3 and KU4.
- Lift the rails 1500 mm.
- Check now the position of the cylinder levers. All four cylinder levers have to sit close to the limit stops of the scissors. (compare to pic 3)



pic. 3
cylinder levers (circle)
2 x each side of the lift

- If the cylinder levers do not sit absolutely close to the limit stops then the rails have to be equalised still one time with the ball valves, according to the following description.
- Equalization of the main lift:**
Choose the main lift at the reversing switch (see pic.1, 4)

Press button „lifting“ and pull the ball valve KU1. Observe if the cylinder levers move to the limit stops. If no cylinder lever moves, put KU1 in his original position. Pull ball valve KU2 and press button „lifting“.

- **Equalization of the wheel free lift:**

Choose the wheel free lift (“RFH”) at the reversing switch (see pic.1, 4)

Lift the wheel free lift in the highest position. Check the rails for torsion.

Pull ball valve KU3 and press button „lowering“.

Observe the rails if one of them lowers. If no rail lowers, put KU3 in his original position and pull ball valve KU4. Push button „lowering“. The torsion should have disappeared.

If the rails have different heights, push the button „lowering“ until the rails of the wheel free lift have reached their lowest position. Hold the button „lowering“ pushed and pull the ball valves KU3 and KU4 until both rails are on the same level.

- Put the ball valves in their original position again.

6. Troubleshooting

If the lift does not work properly, the reason for this might be quite simple. Please check the lift for the potential reasons mentioned on the following pages. If the cause of trouble cannot be found, please call the technical service.

Problem: Motor does not start!

possible causes:	solution:
<i>no power supply</i>	<i>let the power supply check</i>
<i>main switch is not engaged or defective</i>	<i>Check the main switch</i>
<i>The feed line is cut</i>	<i>Check the feed line and repair it</i>
<i>fuse defective</i>	<i>check fuse and replace it if necessary</i>
<i>thermal switch in the motor is active</i>	<i>let it cool down</i>
<i>Motor defective</i>	<i>Call the service partner</i>

Problem: Motor starts, lift does not lifting!

possible causes:	solution:
<i>The vehicle is too heavy</i>	<i>Unload it</i>
<i>Level of the oil is too low</i>	<i>Fill new oil in</i>
<i>leakage of the hydraulic system</i>	<i>Check the hydraulic lines and repair it</i>
<i>gear pump does not work</i>	<i>call your service partner</i>

Problem: The lift does not lower!

possible causes:	solution:
The lift is standing on a obstacle	Push button „lifting“
hydraulic valve defect	call your service partner
fuse defective	check fuse and replace it if necessary
Button „lowering“ not pushed or defective	Push the correct button!
Seat valves cannot be unlocked	emergency lowering

6.1 Driving on an obstacle

If the lift drives on an obstacle, the hydraulic system has got no more pressure and the lift stops. To remove the obstacle the lift has to rails have to be lifted a little. Therefore push button „lifting“ until the obstacle can be removed.

6.2 Emergency lowering of the main lift/ wheel free lift



A emergency lowering is an intervention into the control of the lift and can be done only by experienced expert.

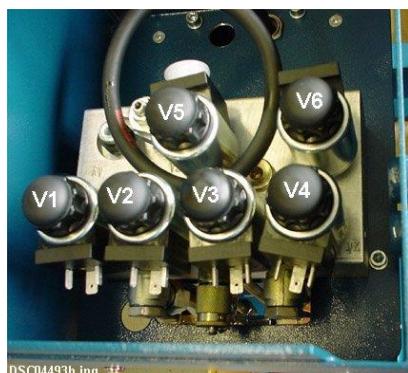
The emergency lowering must be carried in this order. Otherwise a malfunction can lead it to damages or lead to danger for body and lives.



Every kind of external leakage must be removed. This is necessary particular before an emergency lowering.

Reasons which provoke an emergency lowering are e.g. disturbances of the valves or a breakdown of the power supply.

1. Disconnect the lift from the power supply before starting the emergency lowering.
2. Open the covers of the aggregate. You have to be able to reach the seat valves of the hydraulic bloc. (pic. 4)
3. Check the dangerous places of the lift and be sure that there are no objects or people in the immediate area of the lift or on the lift.
4. Emergency lowering of the main lift: press simultaneously the valves V1, V2.
5. Emergency lowering of the wheel free lift: press simultaneously the valves V3,V4.
6. The lowering starts immediately. If there is any danger, let off the valves and stop the emergency lowering!!



pic. 4

Valves with buttons for emergency lowering

7. Lower the lift or the wheel free lift in his lowest position.

8. Observe the complete process.
9. Change the defect parts of the lift, before you initiate the lift again, if it is necessary. Therefore call your service partner.



Switch off the main switch and lock it. Do not work with the lift until the faulty parts are exchanged.

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.

Maintenance plan	Period
Clean the piston rods of the hydraulic cylinders from sand and dirt. Clean and check the stripper of the cylinder. Grease the piston rods with a high capacity lipid (approx. 5 g of S2 DIN51503 KE2G of the Renolit Company).	min. once in a year
Clean and lubricate the moving parts of the lift (hinge bolts, sliding pieces, sliding surfaces) grease with a multipurpose lipid (example: Auto Top 2000 LTD. Agip).	min. once in a year
Grease all lubricate nipples with a multipurpose lipid. (example: Auto Top 2000 LTD. Agip).	min. once in a year
Check the hydraulics-hoses for leakage. Check the hydraulic hoses and fitting screws	min. once in a year
Check the oil level. Fill in a clean, high quality oil (32 cst) in the oil tank.	min. once in a year

The hydraulic oil has to be changed at least once a year. To change the oil, lower the lift into the lowest position. Empty the tank and replaced clean oil, approx. 14 litres are needed. A high quality hydraulic oil is recommended, it should be 32 cst. (e.g. HLP 32 LTD. OEST Company) Use a ATF-Suffix hydraulic-oil (OEST Company) if the ambient temperature is under 5 degree centigrade. After the fill up, the hydraulic oil must be between the upper and low marking of the oil level gauge.	min. once in a year
Check the Polymer supports and replace them if its necessary.	min. once in a year
Check the condition and function of the safety devices of the lift. (CE-Stop + acoustic signal, ramps, roll over safety device, roll back safety device)	min. once in a year
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.	min. once in a year
The valves (cartridges) have to be tightened with approx. 30 – 35 Nm in regular intervals. (see attachment) With intensive utilization of the lifting platform, the maintenance interval has to be curtailed. Before the cartridges with the demanded turning moment can be tightened, the coils have to be removed through releasing the black turn-lock fastener.	min. once in a year
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).	min. once in a year
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.	min. once in a year

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).	
Every liquids in foundation pits has to be removed and disposed of properly. The pits are to be kept dry. Raise the lift out of the pit when you not use the lift. The foundation surfaces can dry.	min. once in a year
 <p>Flat plate</p> <p>Edge protection</p> <p>platform</p> <p>(Illustration)</p>	min. once in a year
The black edge protection is a wear part. Check the condition in regular intervals. In case of damage and wear exchange it.	
We recommend the edge protection 1-2mm Order-Nr.: 971027 (Specify number of meters)	
Durability of the hydraulic hoses: The use duration of the hose lines should not exceed six years, including a storage time of at most two years.	min. every sixth year
Check the function and condition of all electrical parts. (cables, buttons)	min. once in a year
Check that all screws and bolts are correctly torque (turning moments, see the list).	min. once in a year

Turning moment for screws

property class 8.8

	0,10*	0,15**	0,20***
M8	20	25	30
M10	40	50	60
M12	69	87	105
M16	170	220	260
M20	340	430	520
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	250	315	380
M20	490	615	740
M24	840	1050	1250

Drehmomenttabelle 8.8-10.9 E

- * 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

7.2 Cleaning of the automotive lift

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.
- After cleaning dry the automotive-lift with a suitable type of cloth and inject it with a wax spray or an oil spray.

7.3 Cleaning and care of galvanised surfaces

Excerpt from DIN EN ISO 1461: "Zinc coatings on steel using hot-dip galvanising"

"The main purpose of the zinc coating is to protect the iron and steel material lying underneath from corrosion. Considerations of aesthetics and decorative properties should take second priority. . . It should be observed that "roughness" and "smooth" are relative terms and the roughness of piece galvanised coatings can differ from continuous hot-dipped galvanised products, as for example continuous hot-dipped galvanised sheet metal, pipe and wire."

In practice it is not possible to specify a definition for the uniformity and the surface qualities of zinc coatings.

The occurrence of dark or light areas (e.g. lattice pattern or dark-grey areas) or a slight surface unevenness is no reason for rejection. The formation of (white or dark) corrosion products, mainly consisting of zinc oxide (occurring from storage in damp conditions after the hot-dip galvanising), is no reason for rejection as long as the required minimum thickness value of the zinc coating is still present.

For touch-up work:

"The sum of the areas without coating that must be touched-up must not exceed 0.5% of the total surface of a single part. A single area without coating must not exceed an area of 10 cm².

The touch-up work should be done through thermal spraying with zinc (e.g. ISO 2063) or through a suitable zinc powder coating, where the zinc dust pigment must comply with ISO 3549 within the practical limits of such systems, or using suitable zinc-flake coating or zinc paste. .. A sufficient corrosion protection must be ensured on the touched-up areas." The touch-up work must always be at least 100 µm thick.

Excerpt from GSB ST 663: Visual assessment of the surface:

Source: Quality and inspection regulations for industrial hot-dip galvanising, part 663: "International quality guidelines for part coating on steel and hot-dipped galvanised steel"

"The assessment of the decorative appearance of the surface in regards to uniformity of colour and structure must be done without auxiliary aids; for external parts at a distance of at least 5 m, for interior parts at a distance such as at least 3 m vertical with diffused lighting. All parts must basically match in gloss, colour and structure. Foundation unevenness, for example scratches, grinding marks, corrosion scars and welding seams have no significance in the assessment of the coating quality."

Influence factors for discolourations of the surface

Source: Hot-dipped galvanised: Newsletter for users no. 5

The protective effect of the durable hot-dipped galvanising is based on the formation of cover layers which, due to weathering influences in the course of weeks or months, occur on the galvanised surface. The cover layers mainly occur from basic zinc carbonate. If the zinc surface is sprayed with water over an extended period or if the air access and thus the presence of CO₂ insufficient, then the occurrence of protective cover layers is prevented. Instead, so-called "white rust" forms on the surface of galvanised parts.

White rust consists mainly of zinc hydroxide and slight proportions of zinc oxide and zinc carbonate. In practice white rust can only become a problem with freshly hot-dipped galvanised parts. The formation of white rust has no connection with the galvanising process and is not a measure for the quality of the galvanisation. The probability for possible white rust formation fluctuates depending on the weather in the course of a year. White rust occurs more frequently in autumn and winter. Frequent precipitation in the form of rain and snow, fog and dropping below the dew point due to low temperatures promotes possible white rust formation.

Aggressive liquids, for example salts, brake fluids, chemical additives or acids have a negative effect on the zinc layer. If they come in contact with the zinc galvanised surface they must be removed immediately and the area cleaned (see the chapter Cleaning and Care)

Touch-up after incidence of white rust:

- With only a slight incidence, the removal of white rust is not absolutely necessary.
- With a strong incidence, smaller areas can be removed with a special brush (e.g. made of soft bronze wire, brass or a plastic brush). Be careful, if brushed too intensively the surface can become dark.
- If necessary, zinc and stainless steel cleaner (e.g. Leraclen ZNR) can be used.

Traces of usage due to tyre wear

Traces of usage due to tyre wear result in an unattractive surface on the drive rail. These have nothing to do with the quality of the galvanising. (see point Cleaning and Care)

Spotting due to spilling liquids

See point Cleaning and Care

Cleaning and care

- Regularly clean the galvanised parts (and immediately after contact with aggressive substances) with plenty of clean water.
- If necessary the surface must be brushed off with a special brush and with slight pressure
- Let the surface dry well!
The drive rail must be free during this, there must be no vehicle on the lift.
- Seal the surface with a temporary corrosion protection against recurrence of the white rust. For this use acid-free oils, greases or waxes

8. Security check

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

1. 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”



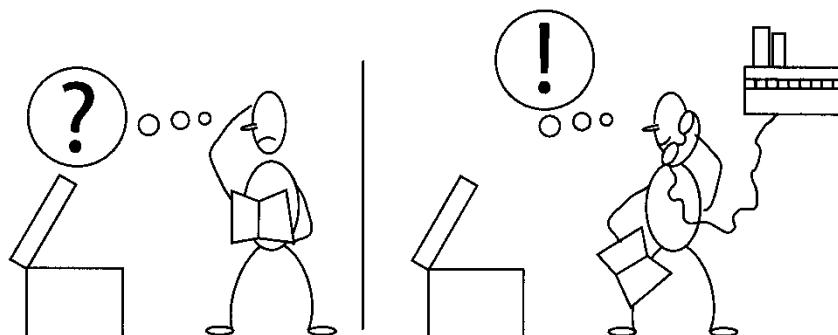
The first and the regular security check must be performed by a competent person. It is recommended to service the lift at this occasion.



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

This manual contains form with a schedule for the security checks. Please us the adequate form for the security checks. The form should remain in this manual after they have been filled out. In the following there is a short description about special safety devices.

9. Installation and Initiation



9.1 Regulations for the installation

- 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.
- 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.
- After assembly of the lift, the protective grounding of the lift must be examined after International Electrotechnical Commission (IEC) guidelines (60364-6-61) before first start-up by operators. Also an insulation resistance examination is recommended.

9.2 Erection and doweling of the lift

- Install the lift according to the data sheet and the foundation plan.
- Install the operating unit at its designed place. Connect the power supply.
- Connect the hydraulic. All hoses are marked.
- Fill in the hydraulic oil, approx. 14 litres are needed. A high quality hydraulic oil is recommended, it should be 32 cst. (e.g. HLP 32 LTD. OEST Company) After the fill up, the hydraulic oil must be between the upper and low marking of the oil level gauge.
- Push button „lifting“ until the vent screws (on the top of the slave cylinders, see pic. 5) can be reached. Execute a deaerate according to chapter 9.6, if necessary.
- Adjust the lift: first one base plate, than the second base plate. If there is an uneven floor even it with metal sheets. A continuous contact between the floor and the base plate must be guaranteed to avoid hollow spaces. Dowel the lift:
Nussbaum Company recommended Liebig, Fischer, Hilti safety dowels (german dowel manufacturer) or equivalent dowels of other manufacturer but: observe their regulations.
Before doweling check the concrete floor (with quality min. C20/25) if the concrete floor goes to the top edge of the floor. For an existing concrete floor the dowels have to be chosen according to pic. 8. If floor tiles are on the concrete floor, the dowels have to be chosen according pic. 9. Its important for the trouble-free working that the base plate are clean and the guides of the sliding block are clean and greased.
Check the adjustment of the base plates and dowel the lift: Bore the holes to fix the dowels through the borings of the base plates. Clean the holes with pressure air. Put in the safety dowels.
- Dowel the aggregate in the floor.
- Tighten the dowels with the dynamometric key.



**Each dowel must be tightened with the demanded torque. Otherwise the normal and secure function of the lift can not guaranteed.
Observe the regulations of the other dowel-manufacturer.**

- Raise and lower the lift several times with load. Check the torque of the dowels and check the hydraulic hoses tightness.
- Equalize the lift, if this is necessary.
- Mount the covers: Do not damage the cables.

9.3 Daeaerate the hydraulic system (main lift)

- The correct power supply, the correct hydraulic oil and the closeness of the hydraulic system have to be controlled after the installation of the lift.

By connecting the hydraulic hoses, air might enter the hydraulic system and provoke problems of ganging. In consequence a deaerating is necessary.

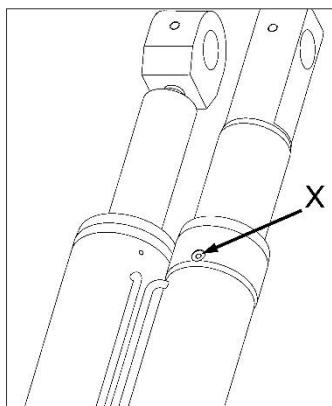
Check again the correct installation of the hydraulic hoses!

Effects, which make a deaerating necessary are e.g. a sudden lifting out of the lowest position or unequal rails.

Correct deaerating:

There have to be 14 litres of hydraulic oil filled in the oil tank.

- Choose the main lift at the reversing switch (see pic.1, 4)
- Open the vent screws on the top of the slave cylinders (see pic. 5) a little bit.
Do not open them completely.
- Push button „lifting“. The air streams out of the borings on the slave cylinders. Keep the screws open until only hydraulic oil comes out of the borings. Close the vent screws afterwards.



pic. 5

pos. X = vent screw on the top of the slave cylinders



If you do not close the vent screws, trouble and disturbances of the lift will occur!

- Push button „lifting“ and drive the lift into the highest position. Repeat the procedure of deaerating, if necessary.
- Check if the vent screws are closed

- Push button „lowering“ and drive the lift into the lowest position. (While you lower the lift it is possible that the oil-air mix makes sounds)
- Lift the rails on 1500 mm without load. Check up the holding time.
- Check again the position of the cylinder levers.

9.4 Initiation



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

If the lift is installed by a competent person, he will perform this security check. If the operator installs the lift by himself, he has to instruct a competent person to perform the security check.

The competent confirms the faultless function of the lift in the installation record and form for the security check and allows the lift to be used.



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

9.5 Changing the installation place

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

- Raise the lift on approx. 1000 mm.
- Remove the cover of the hydraulic tubes.
- Loose the dowels.
- Lower the lift in the lowest position.
- Loose the plug of the power supply.
- If necessary loose the hydraulic hoses only on the operating unit.
- If necessary use blind plugs to close the hoses.
- Disconnect the power supply.
- Transport the lift to its new place.
- Install the lift in accordance with chapter 9 “ Installation and Initiation”.
- Equalize and deaerate the lift!

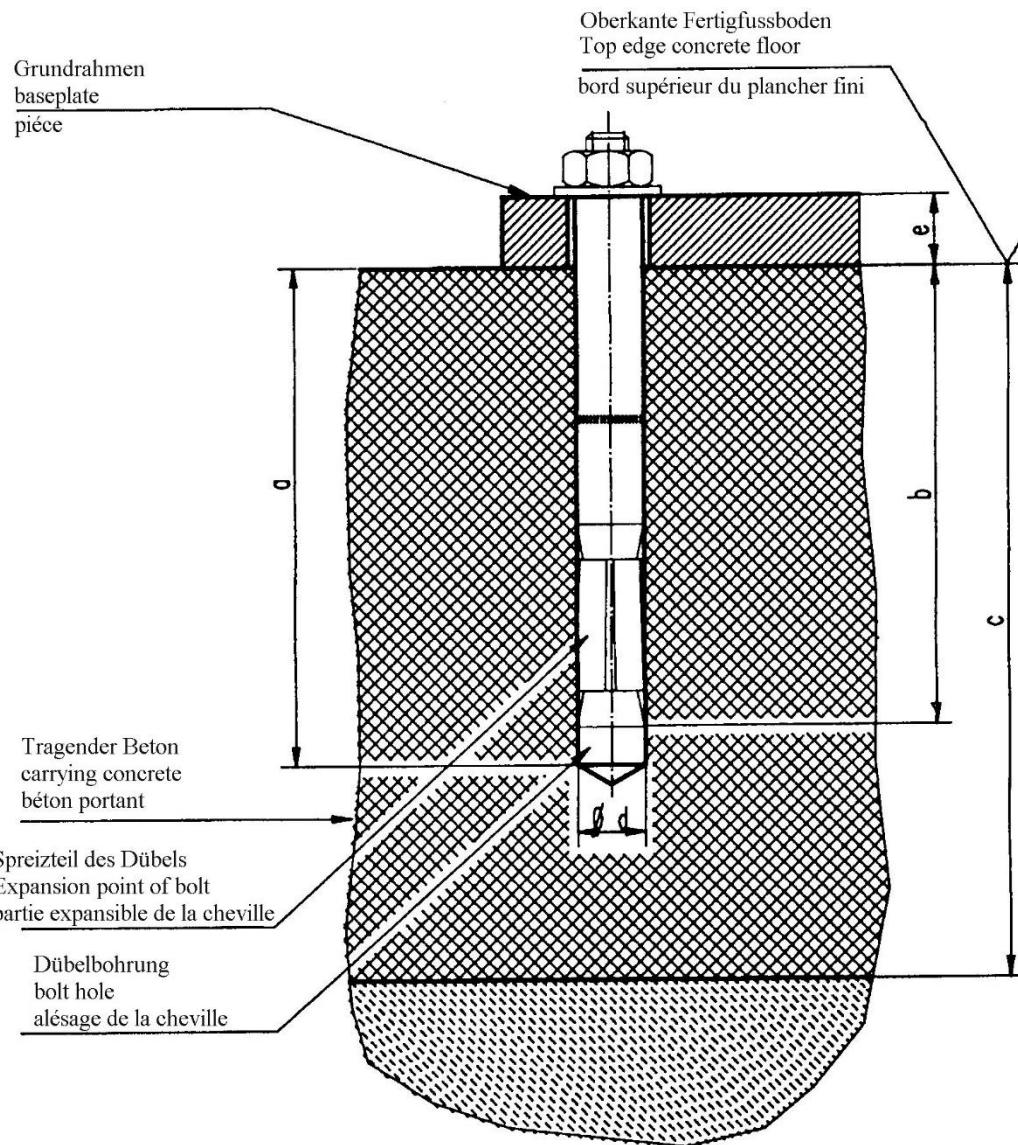


Use new dowels, the used dowels can not be used anymore.



A security check must be performed before reinitiation by a competent person. Use form “Regular security check”

Pic. 6: choice of the dowel length without floor pavement or tile surface



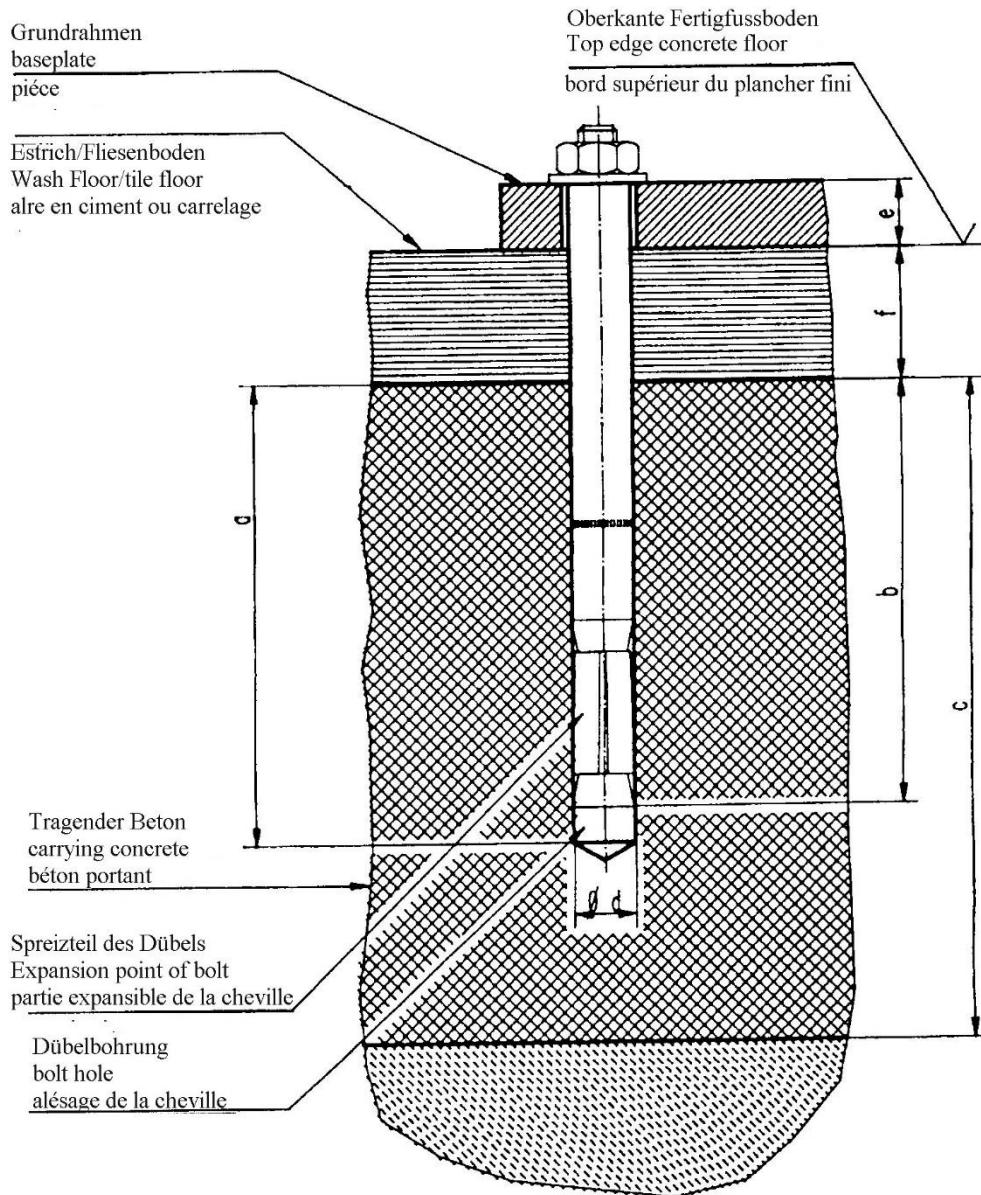
Liebig-dowels

Dowel type	BM12-20/80/40
Drilling depth	a 100
Min. anchorage depth	b 80
Thickness of concrete	c min.160(*)
Diameter of bore	d 20
Thickness of the lift-pieces	e 0-40
Number of dowels	16
Starting torque	70

(*) 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 7: choice of the dowel lengths (without floor pavement or tile surface)

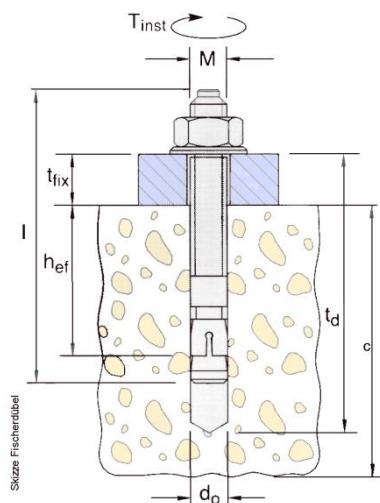


Liebig-dowels

Dowel type	BM12-20/80/65	BM12-25/80/100	BM12-20/80/140
Drilling depth	a 100	100	100
Min. anchorage depth	b 80	80	80
Thickness of concrete	c min.160(*)	min.160(*)	min.160(*)
Diameter of bore	d 20	20	20
Thickness of the lift-pieces	e+f 40-65	65-100	100-140
Number of dowels	16	16	16
Starting torque	70 Nm	70Nm	70Nm

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

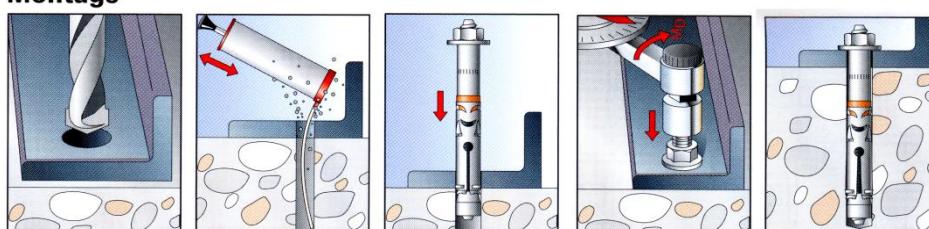
You can use equivalent dowels from another dowel manufacturer (with license) but observe their regulation.



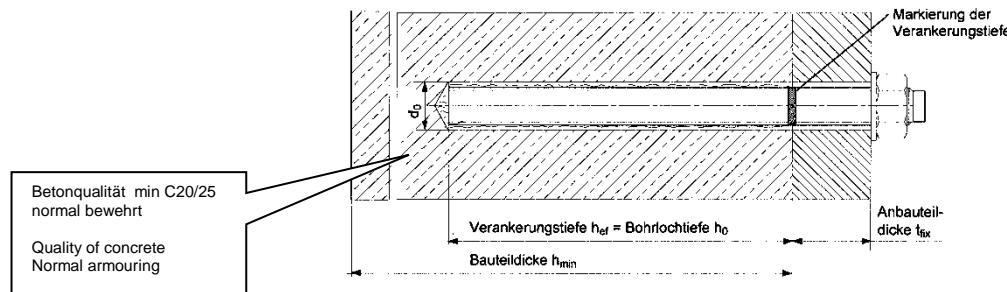
Änderungen vorbehalten!
subject to alterations!
sous réserve des modifications!

fischer-Dübel			UNI LIFT 3500 NT/CLT ^d	
Dübel typ of dowel type de cheville		FH 15/50 B Bestellnr. 970265	FH 18 x 100/100 B Bestellnr. 972230	FH 24/100 B Bestellnr. 970267
Bohrteife drilling depth Profondeur de l'alésage	t _d	145	230	255
Mindestverankerungstiefe min.anchorage depth Profondeur minimale d'ancrage	h _{ef}	70	100	125
Betonstärke thickness of concrete Epaisseur du béton	c	siehe den aktuellen Fundamentplan see current foundation-diagram drawing vois le plan de fondation actuel		
Bohrerdurchmesser diameter of bore Diamètre de l'alésage	d ₀	15	18	24
Bauteildicke thickness of the lift-piece Epaisseur de la pièce	t _{fix}	0-50	0-100	0-100
Anzugsdrehmoment Nm turning moment moment d'une force	M _d	40	80	120
Gesamtlänge Total length Longueur totale	l	155	230	272
Gewinde Thread fil	M	M10	M12	M16
Stückzahl piece number nombre des pièces	a	4		
	b	8		
	c	10		
	d	12		
	e	16		
	f	20		

Montage



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 respectant les directives du fabricant.



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

Hilti-Injektionsdübel							
Betonboden / concrete floor		ohne Bodenbelag / without floor pavement (tiles)					
Dübel type of dowel type de cheville		HIT-V-5.8 M10x130	HIT-V-5.8 M12x150 Art.Nr.387061	HIT-V-5.8 M16x200 Art.Nr.956437			
Bohrteife (mm) drilling depth Profondeur de l'alésage	h_0	90	110	125			
Mindestverankerungstiefe (mm) min. anchorage depth Profondeur minimale d'ancrage	h_{ef}	90	110	130			
Betonstärke (mm) thickness of concrete Epaisseur du béton	H_{min}	min. 120	min. 140	min. 170			
Bohrerdurchmesser (mm) diameter of bore Diamètre de l'alésage	d_0	12	14	18			
Bauteildicke (mm) thickness of the lift-piece Epaisseur de la pièce	t_{fix}	max. 23	max. 21	max. 52			
Anzugsdrehmoment (Nm) turning moment moment d'une force	T_{inst}	20	40	80			
Gesamtlänge (mm) Total length Longueur totale	l	130	150	200			
Gewinde Thread fil	M	10	12	16			
Stückzahl piece number nombre des pièces	a	4					
	b	8					
	c	10					
	d	12					
	e	14					
	f	16					
	g	28					
<p>Die Montageanweisung des Dübelherstellers ist Folge zu leisten. Bei Bodenbelag (Estrich/Fiesen) sind längere Dübel zu verwenden. Observe necessarily the installation description of the dowel manufacturer. Use longer dowels with version with floor pavement and tiles</p>							
<p>Es können auch gleichwertige Injektionsdübel anderer Hersteller (mit Zulassung) unter Beachtung deren Bestimmungen verwendet werden. It is possible to use equivalent injections dowels (with license) of other manufacturer but observe their regulations. Des chevilles des autres marques (autorisées) peuvent aussi être choisies en respectant les directives du fabricant.</p>							
<p>Die Daten wurden aus den von Hilti bereitgestellten Unterlagen entnommen. Hierfür übernehmen wir keine Garantie.</p>							

First security check before installation



Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lifting/lowering".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function lever „main lift/wheel free lift“.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition / Function ramp.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function pocket-lamp (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition sliding blocks.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque moment of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition piston rod and stripper.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:
(Use another form for verification!)

.....
signature of the operator

Regular security check



Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function pocket-lamp (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:
(Use another form for verification!)

.....
signature of the operator

Regular security check

 Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
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Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

(Use another form for verification!)

.....
signature of the operator

Regular security check



Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition sliding blocks.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque moment of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

(Use another form for verification!)

.....
signature of the operator

Regular security check



Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Condition sliding blocks.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque moment of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition piston rod and stripper.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:
.....

(Use another form for verification!)

.....
signature of the operator

Regular security check



Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lifting/lowering".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function lever „main lift/wheel free lift“.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition / Function ramp.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function pocket-lamp (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition sliding blocks.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque moment of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

(Use another form for verification!)

.....
signature of the operator

Regular security check



Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function pocket-lamp (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition sliding blocks.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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- No failings, Initiation possible

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

(Use another form for verification!)

.....
signature of the operator

Regular security check



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Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lifting/lowering".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function lever „main lift/wheel free lift“.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition / Function ramp.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque moment of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition piston rod and stripper.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:
.....

(Use another form for verification!)

.....
signature of the operator

Regular security check



Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lifting/lowering".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function lever „main lift/wheel free lift“.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition / Function ramp.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function pocket-lamp (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition sliding blocks.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque moment of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition piston rod and stripper.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

(Use another form for verification!)

.....
signature of the operator

Regular security check



Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lifting/lowering".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function lever „main lift/wheel free lift“.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition / Function ramp.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function pocket-lamp (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition sliding blocks.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque moment of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition piston rod and stripper.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

(Use another form for verification!)

.....
signature of the operator

Regular security check



Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lifting/lowering".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function lever „main lift/wheel free lift“.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition / Function ramp.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function pocket-lamp (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition sliding blocks.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque moment of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition piston rod and stripper.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

(Use another form for verification!)

.....
signature of the operator

Regular security check



Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lifting/lowering".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function lever „main lift/wheel free lift“.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition / Function ramp.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function pocket-lamp (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition sliding blocks.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque moment of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition piston rod and stripper.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

(Use another form for verification!)

.....
signature of the operator

Regular security check



Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lifting/lowering".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function lever „main lift/wheel free lift“.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition / Function ramp.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function pocket-lamp (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition sliding blocks.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque moment of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition piston rod and stripper.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:

(Use another form for verification!)

.....
signature of the operator

Extraordinary security check

 Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lifting/lowering".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function lever „main lift/wheel free lift“.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition / Function ramp.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function pocket-lamp (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition sliding blocks.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque moment of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition piston rod and stripper.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:
.....

(Use another form for verification!)

.....
signature of the operator

Extraordinary security check

 Filling out and leave in this manual

Serial number: _____

kind of check	all right	defect missing	veri-fication	remark
Short Operating instruction.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type plate.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning designation, sticker.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function button "lifting/lowering".....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function lever „main lift/wheel free lift“.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition / Function ramp.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function play-detector (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition/Function pocket-lamp (optional).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Security of the bolts.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition bolts and bearings.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition sliding blocks.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition colour.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Construction (deformation, cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition quality of concrete (cracking).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Torque moment of the dowels.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fixed seat of the screws.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition operating unit.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition piston rod and stripper.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of the covers.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition of hydraulic system and screw fittings....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level of hydraulic oil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition hydraulic hoses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition electrical cables, switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function test wheel free lift with vehicle.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition Polymer supports.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condition welding.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Function CE-Stop + warning signal.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(mark here applicable, in case of verification mark in addition to the first mark!)

Security check carried out:.....

Carried out the company:.....

Name, address of the competent:.....

Result of the Check:

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

.....
signature of the expert

.....
signature of the operator

If failures must be repaired:

Failures repaired at:
(Use another form for verification!)

.....
signature of the operator

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