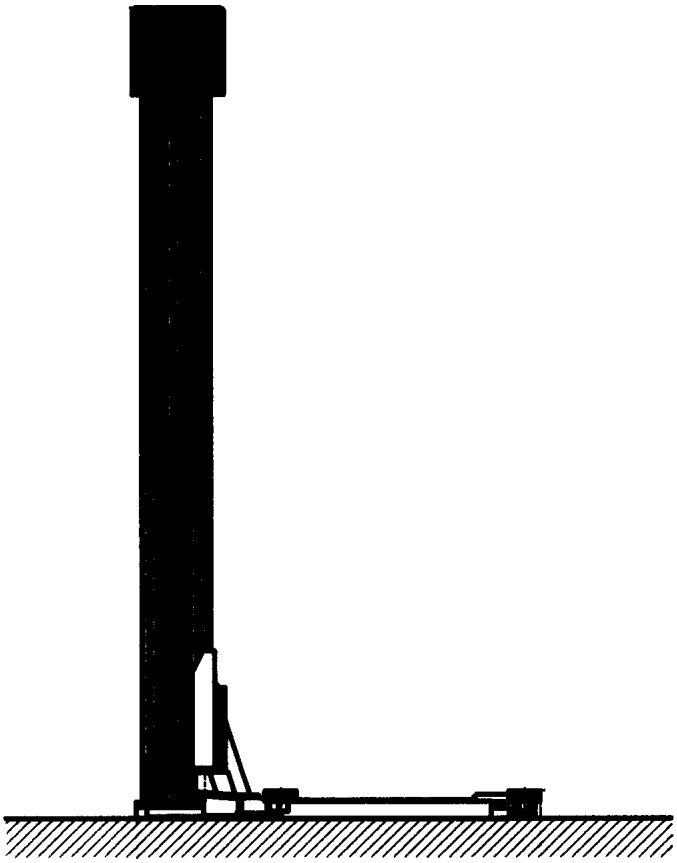
Nußbaum
HEBETECHNIK

1.20 S

valid: Januar 1995



operating instruction and documentation

serial -nr:.....

Table of contents

☞ **Send this record, filled out and signed to Nußbaum after the installation !**

Otto Nußbaum GmbH & Co.KG

Korker Straße 24

77694 Kehl-Bodersweier

Germany

Record of installation

The automotive lift 1.20 S with the

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

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

the saftey mechanism and operation were checked.

The installation was done by the operater / competent person (please delete as applicable)

The safety of the automotive lift was checked by the person before the initial operation

The operater attests, the correct installation of the automotive lift. The competent person attests the correct initial operation.

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

Record of handing over

The automotive lift 1.20 S with the

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

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

the saftey mechanism and operation were checked.

The persons below were instructed after the installation of the automotive lift. The instruction was carried out by a technician of the lift-manufacturer or by a competent person. The persons below are fully familiar with the contents of this manual.

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

1. Introduction

The document **”Operating Instructions and Documentation”** contains important infomation about installation, operation and maintenance of the 1.20 S .
To furnish proof of **installation of the automotive lift** the form ”Record of Installation” must be signedand returned to the manufacturer.
To furnish proof of the singular, felt this documentation contains forms. The forms should be used to document the checks. They should not beremoved from this documentation.
Every **Changes to the construction** and **displacement** of the automotive lift must be registered in the **”Master document”** of the lift.

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 person 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 labour and accidents prevention regulations.

Competent person 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 Competents)

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 descriped operationmay 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 for an important function or other important notes.

2. Master document of the automotive lift

Lift designation: 1.20 S
Lift-manufacturer: Otto Nußbaum GmbH & Co.KG
Korker Straße 24
77694 Kehl-Bodersweier
Germany

Application

The automotive lift 1.20 S is a lifting stage for lifting and repairing vehicles with a laden weight of 2000 kg and a max. load sharing of 2:1 in and against drive-on direction. The load of one carrying arm must not be more than 500 kg. It's not allowed to put the load only on one of the carrying arms, just as it is not allowed to install the lift in rooms with danger of explosion. After changing construction and after repairings the lift has to be checked from an expert again. The operating instruction and the instruction for maintenance have to be observed.

☞ **Changes of construction, repairings and changes of place must be registered in this master document**

Changes of 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

Change of automotive-lift-place, expert checking, resumption of work (date, address and signature of the competent)

.....
name, address of the competent

....
place, date signature of the competent

CE-certificate/attestation of conformity

The automotive lift 2.30 SL with the serial number .....
is in accordance with the tested lift (number 04205-2563/96)

....

place, date company stamp, signature

ZERTIFIKAT

CERTIFICATE

RWTÜV

ANLAGENTECHNIK GMBH

Registrier-Nr./*Registered No.:*
04 205-1376/95

EG-Baumusterprüfbescheinigung gemäß Anhang VI der EG-Richtlinie 89/392/EWG
EC-type approval according to appendix VI of the EC-directive 89/392/EEC

Zeichen des Auftraggebers *Reference of applicant*	Auftragsdatum *Date of application*	Aktenzeichen *File reference*	Prüfbericht Nr. *Test report No.*	Ausstellungsdatum *Date of issue*	Gültigkeit bis *Expiry date:*
Müller	30.03.95	7.2-1453/95	2937/95	08.09.1995	08.09.2000

Hiermit wird bestätigt, daß das nachfolgend genannte Produkt den grundlegenden Anforderungen der Richtlinie des Rates vom 14.06.89 zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über Maschinen, sowie der Änderung 91/368/EWG und 93/44/EWG, entspricht.
We hereby certify that the product mentioned below meets the basic requirements of the council directive dated 14.06.89 on the approximation of the laws of the member states relating to machinery, as well as the amendments 91/368/EEC and 93/44 EEC.

CE 0044

Antragsteller Otto Nußbaun GmbH, Korker Str. 24
Applicant: 77694 Kehl

Fertigungsstätte: s.o.
Manufacturing plant:

Produktbeschreibung: Fahrzeughebebühne Typ : 1.20 S
Product description:

TÜV CERT - Zertifizierungsstelle der RWTÜV Anlagentechnik im Institut für Produkterprobung und Werkstofftechnik, notifiziert bei der EG-Kommission unter Nr. 0044

RWTÜV Anlagentechnik GmbH
Institut für Produkterprobung und Werkstofftechnik
Langemarckstr. 20
45141 Essen
Tel.: +201-825-3216
Fax : +201-825-3209

3. Technical information

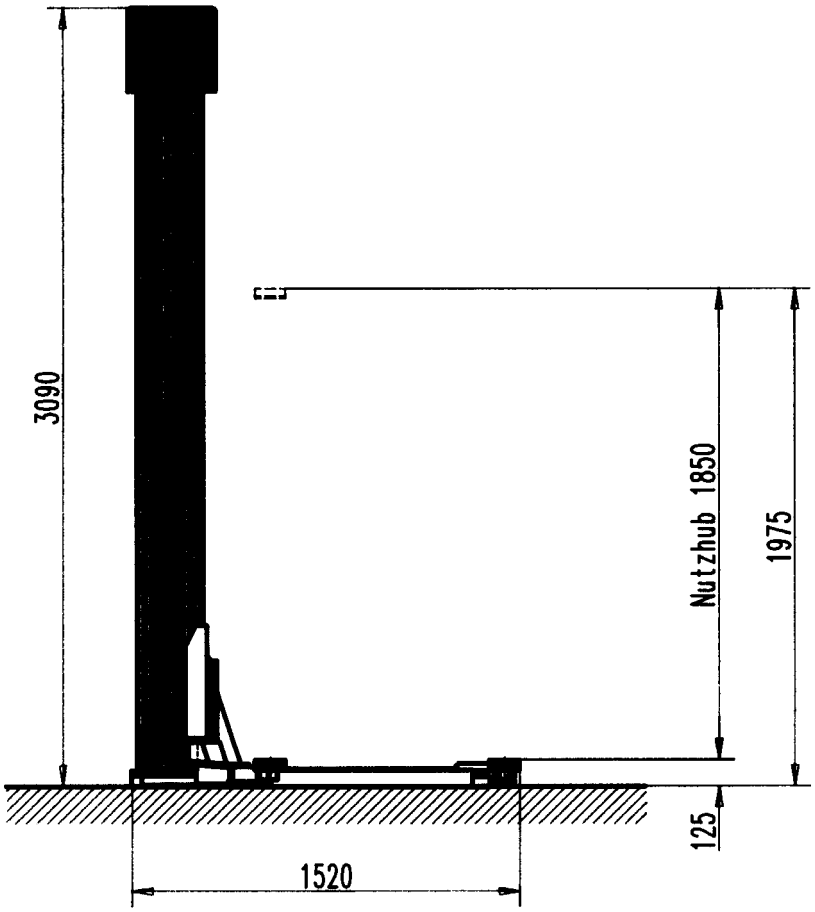
Technical ratings:

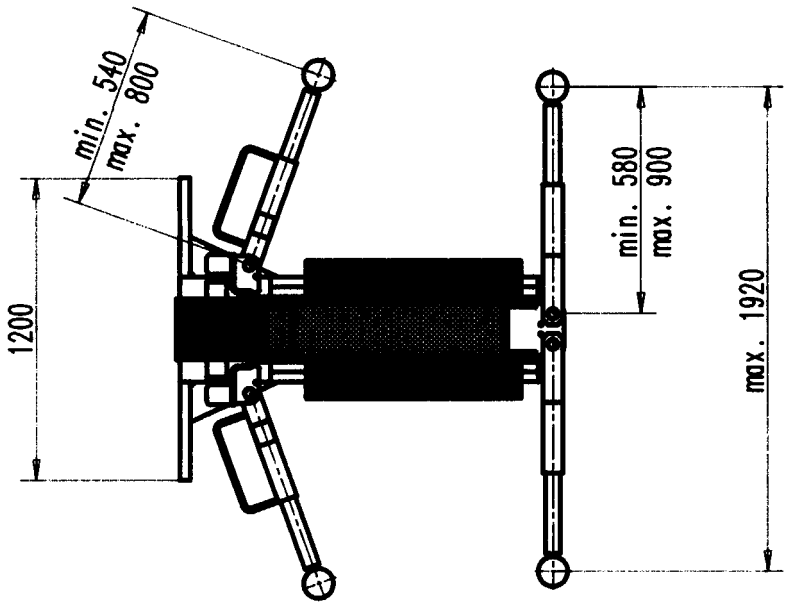
Lifting capacity 1.20 S:	2000 kg
Lifting capacity of one carrying arm 1.20 S:	max. 500 kg; It's not allowed to put the load only on one of the carrying arms
Lifting time:	appr. 36 sec
height of lifting:	1850 mm
Line voltage:	400 Volt three phase current
Driving voltage:	220 Volt
Power rating:	2,2 kW
Motor speed:	1000 revolution/minute
Sound level:	≤ 75 dBA

Safety devices

1. Safety switching in case the carrying nut breaks
   check of the carrying nut with built-in pin
2. Limit switches for top and lowest position
   Safety device of the lift against too much lifting or lowering of the carriage
3. Lockable main switch
   safety device against unauthorized using

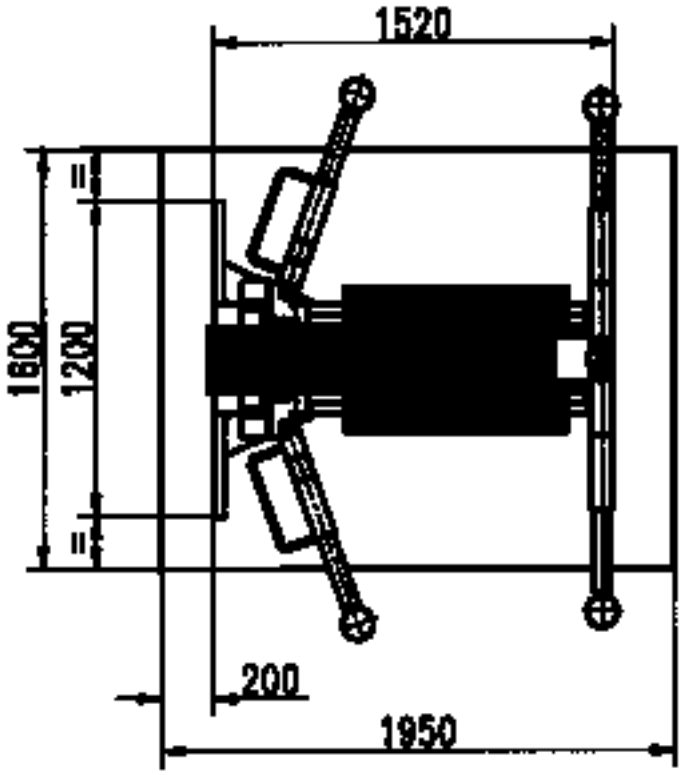
Data sheet 1.20 S

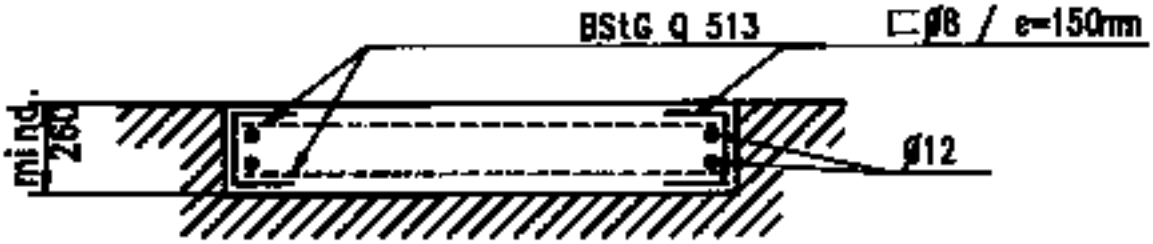




subject to alteration

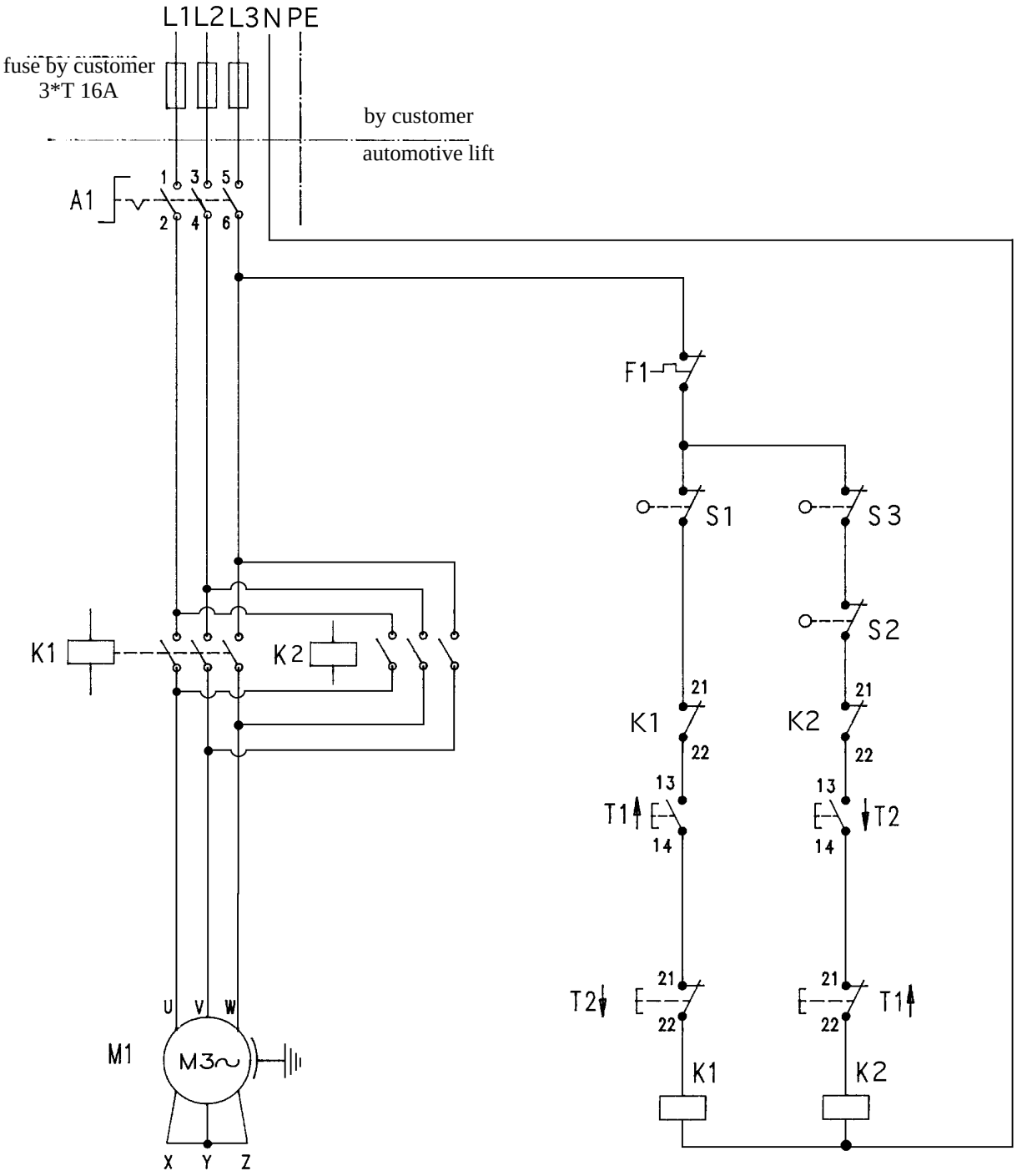
Foundation diagram





reinforcement in both directions at the upper and lower side of the plate min 4 cm^2/m
(for example structural steel Q 377)
revolving Ø8 / e = 150 mm
at the edges Ø 12
concrete quality min. B 25 (DIN 1045)
concrete covering for stiffenig steel 2 cm
foundation base: frost-protected floor!

Electrical diagram drawing



Electrical Part List

A1: main switch

M1: motor M2

K1: up contactor motor ”lifting”

K2: up contactor motor ”lowering”

T1: button ”lifting” ⓫

T2: button ”lowering” ⓫

F1: thermo switch in the motor

S1: top limit switch ”at the top”

S2: bottom limit switch ”at the bottom”

S3: limit switch at the top of the spindle

4. Safety regulations

Using automotive lifts for working the Regulations of Accident Prevention (VBG1: General Regulations in Germany, VBG14: Automotive lifts) must be observed.

Especially the following regulations are very important

- The laden weight of the lifted vehicle mustn't be more than 2000 kg for automotive lift 1.20 S, the lifting capacity of one carrying arm mustn't be more than 500 kg for 1.20 S. It is not allowed to load only one of the carrying arms.
- During working with the lift the operating instructions must be followed.
- Only trained personnel over the age of 18 years old are to operate this lift.
- During lifting or lowering the vehicle it must be observed from the operator.
- During lifting or lowering the vehicle it must be observed from the operator.
- It's not allowed to stay under the lifted or lowered vehicle (except for the operator).
- It's not allowed to transport passengers on the lift or in the vehicle.
- It's not allowed to climb onto the lift during lifting or lowering or onto a lifted vehicl.e
- 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.
- It's not allowed to install the standard-automotive lift in hazardous location.

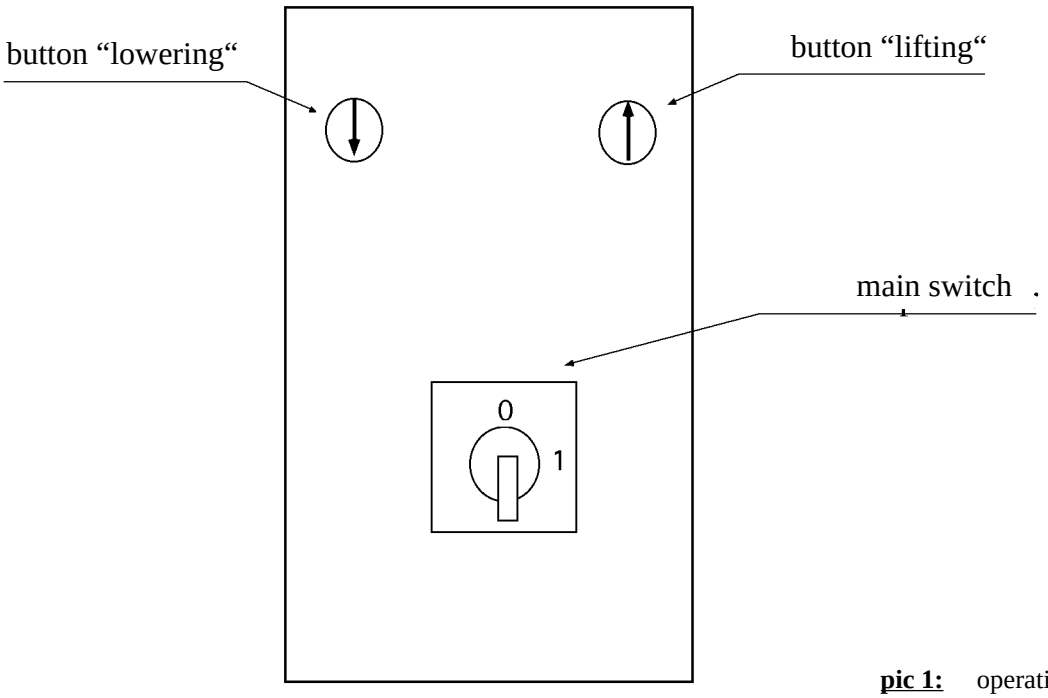
5. Operating instructions

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

The operating elements are shown in **picture 1**.

Lifting the vehicle with the automotive lift

- Drive vehicle in the lift, longitudinal directon and transverse direction in centre.
- Determine adjustable pads at the points which are provieded from the vehicle manufacturer.
- Control 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.
- Lift the vehicle free and check the sit of the pads
- lift the vehicle until the wheels are free.
- If the wheels are free: interrupt lifting and check the sit of the pads again



pic 1: operating panel

The sit of the pads under the vehicle is very important. If the position of the pads isn't all right the vehicle might fall down!

- Lift the vehicle on the height for working.

Lowering the vehicle with the automotive lift ⬇

- Control 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
- Lower the vehicle at the height for working or until the carrying arms reach the lowest point;
- Drive the vehicle out of the lift, if the lift is in lowest position

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.

Repairs at the lift' s security devices as well as repairs and examinations of the electrical fittings may only be performed by specialists!

Problem: Motor does not start !

Potential causes of trouble:

- Main switch is not engaged
- Feed line is cut
- fuse is defect

- Motor is overheated: let it cool down for app. 10 min.
- Lift is driven onto an obstacle

Problem: Motor starts, lift is not lifting!

Potential causes of trouble:
- broken nut: refer to function of switching off
- height limit switch is engaged

Problem: Lift cannot be lowered!

Potential causes of trouble:
- bottom limit switch is engaged
- broken nut: refer to function of switching off

Emergency lowering in case of power failure

In case of power failure the lift can't be lowered with the motor.In this case there is the possibility to lower the lift manually. For this the lift must be turned down to lowest position at the nut on the top end of the spindle. When the lift is at lowest position the vehicle can be removed from the lift

The emergency lowering must only be performed by persons instructed to use the lift. Please refer to the regulation "Lowering".

emergency lowering

- Switch off and lock main switch
- Lower the lift-carriage at the big V-belt pulley.

Function of limit switches

If the lifting carriage or the extension arm has driven because of inattentiveness onto an obstacle, the lift stops automatically.
The spindle is pushed upwards from driving on an obstacle and is pressed up on the emergency shutdown (spindle switch) which is fixed above the spindle. This switch switched the motor off. In this case press button "lifting" until the obstacle can be removed.
To avoid blocking of the lifting carriage (motor side) in drive-on direction a fuse is built in motor, which interrupt the driving current of the motor in case of overstressing. A further operating of the lift is possible only after a few seconds (cool down of motor).

Actuation of safety switching

The lift is equipped with a safety switching, which controls the wear of the main nut and the wear of the chain. If the lifting nut breaks a safety nut which is conducted loose in the spindle carries the load. The lift can only be lowered in lowest position and **can not** be lifted any more.

If the safety switching is actuated the service must be called in any case, because the lift is defect!

A control of the lift's current supply is necessary, means looking if the fuses are all right and the switches are engaged.

In case of any obstruction and in case of repairs at the lift the main switch must be switched off and be safeguarded against reengaging

Only experts or competents are allowed to open the switch box.

7. Maintenance

A regular service has to be performed every three months by the lift' s operator according to the following schedule. If the lift is in continuous operation or dirty environment, the maintenance rate has to be increased.
During daily operation the lift has to be watched carefully for its correct function. In case of any malfunction or leakage the technical service has to be informed.

Maintenance schedule for the lift (see pic. 2)

d, e, f Grease the pull-outs of the carrying arms, bolts of pads and slide ways of carriage slide rollers

b Lubricate spindle one time a month a little bit. The Saw-chain-bonding oil T 320 (OEST) is recommended.

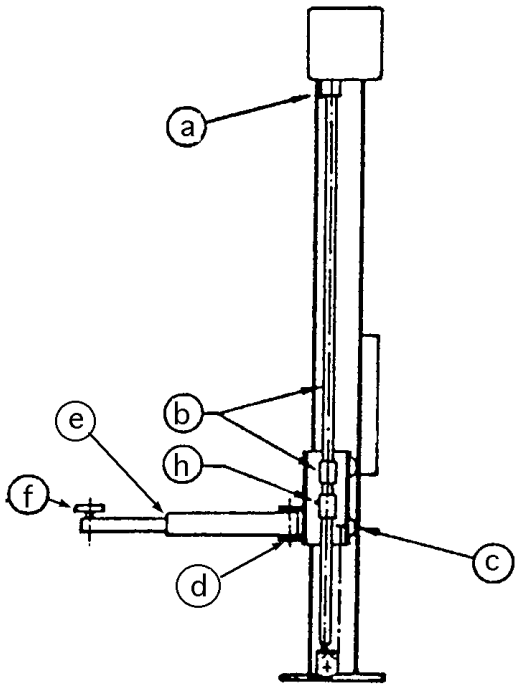
Take care, that biological decomposable saw-chain-bonding oil is not used. In this case the lift might be damaged!

f Check rubber flooring of the pads and change them if they are worn

h Grease sequence nut one time a month with multipurpose fat. Use boring at lifting carriage

a Grease spindle bearing annually with multipurpose fat

When the lift is installed the lubricating felt between nut-support and lifting nut is to oil very well. Use a saw-chain oil which can also be used when the spindle is rotating and which doesn't be thrown away. The oil recevoir constituted from the carrying plate,



pic 2: lubracating plan

must be filled with oil completely. The lift must be driven in lowest and in top position. Afterwards the lift must be checked with load to look after smooth running of the lift. The lubrication of the nut is carried out with oil can though column and covering sheet. This lubrication must be repeated every 2-4 weaks depending on time the lift is uesed. It is refered to the emergency lubrication characteristic of the NYLATRON-lifting nut. However a regular lubrication described in the previous section guarantees a careless operating of the lift.

8. Security check

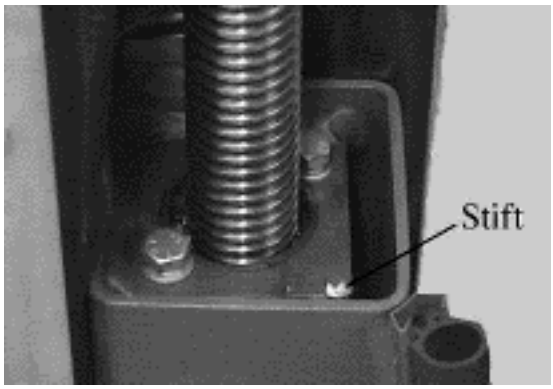
The security check is necessary to guarantee the safety of the lift during use. It has to be performed in the following cases:

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

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

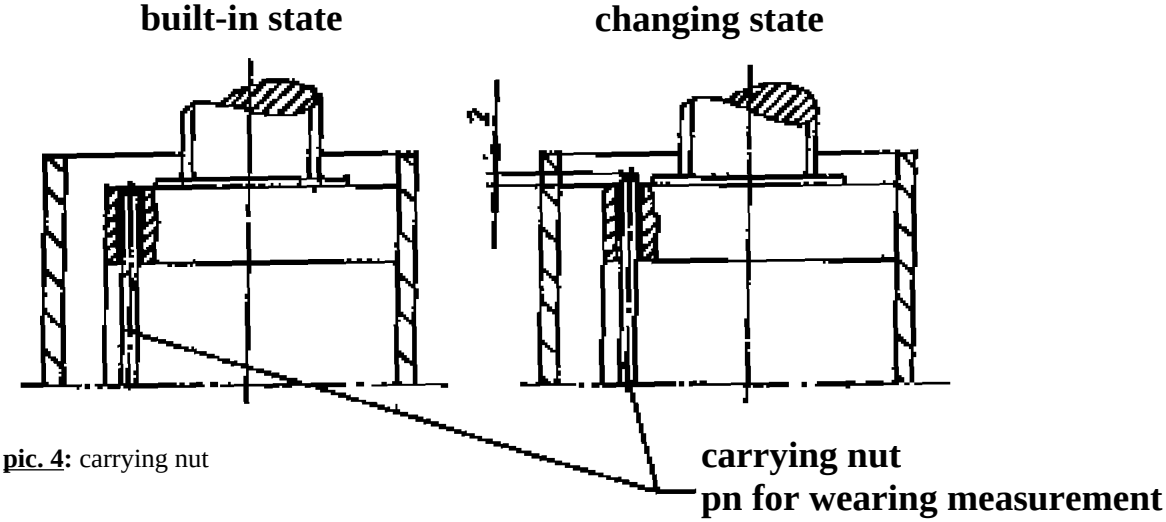
☞ ***After the construction of the lift has been changed (changing the lifting height or capacity for example) and after serious maintenance works (welding on carrying parts) an extraordinary security check must be performed by an expert.***

This manual contains form with a schedule for the security checks. Please use 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.



pic. 3: lifting carriage with pin (= Stift)

- carrying nut (optical wearing measure): To check the carrying nut take off covering from the spindle. There is a pin built in the carrying plate (see pic. 3). This pin must be even with the top edge of the carrying plate (lifting carriage upper side; built-in state see picture 4). If the pin looks 2 mm out of the top edge at the annually check (see picture 4 changing state) the carrying nut and the sequence nut must be changed.



pic. 4: carrying nut

- Check height limit switch and bottom limit switch just as spindle switch above the spindle. The have to be all right otherwise the must be changed.
  Check of limit switches: One man must be lift or lower the lift. A second man actuates the height limit or the bottom limit switch. If the switches are all right the lift stops after every actuation.
  Check of Spindle switch: A wooden bar must be layed under the carrying arms of the lift carriage (operating side) and the lift must be lowered. As the lift drives onto the wooden bar the spindle is pushed up. The spindle itself actuates the

emergency shutdown (spindle switch) at the topsid and the spindle switch stops the lift. If the switch is defect the switch has to be changed.

- stability: The nuts of the dowels must be tightened with a dynometric key (M = 80 Nm)
- Installation in wash-halls: pay attention to safety of the electrical equipment against water.

9. Installation and Initiation

Installation of the lift

Regulations for the installation

- The installation of the lift is performed by trained technicians of the manufacturer or its distribution partner. If the operator can provide trained mechanics, he can install the lift by himself. The installation has to be done according to this regulation.
- The standard lift must not be installed in hazardous locations or washing areas.
- Before installation a sufficient foundation must be proved or constructed.
- An even installation place has to be provided. The foundations must be based in a frost resistance depth, both outside and indoors, where you must reckon with frost
- An electric supply 3~/N + PE, 400 V, 50 Hz has to be provided.The supply line must be protected witch T 16 A (VDE 0100). The min. diameter amounts to 1,5 mm^2.
- The cable entry in the column is located in operating column (motor box) topside. Another possibility is the location of cable entry in a boring at the base plate. However the cable has to be secured with a cable bushing.
- Installation in wash-halls: pay attention to safety of the electrical equipment against water

Erection and doweling of the lift

It is necessary to dowel the lift against slipping. For this you need a concrete floor with a thickness of at least 260 mm and a quality of at least B 25. In case of doubt a test boring has to be performed and a dowel is to set in. Afterwards the dowel must be tightened with a torque of about 80 Nm. If there are defectives (cracks or hairline cracks) in the zone of influence (Ø 200 mm), the foundation cannot be used to install the lift on it. A foundation must be constructed in accordance with the form ”foundation plan”.
It must be paid attention of an even installation place of the lift because of a straight contact between lift and concrete floor.

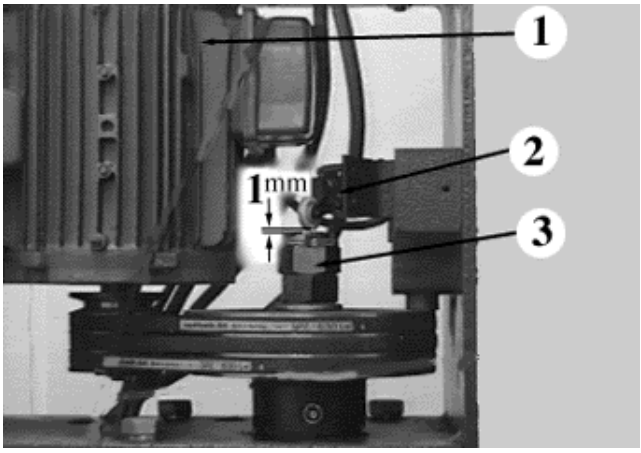
- Position the Lift on the installation place.
- Bore holes to fix the dowels through the borings of the base plates. Clean holes with pressure air. Put in safety dowels with washers in borings. The manufacterer demands LIEBIG safety dowels type B 20.You can use equivalent characteristics dowels another dowel manufacturer (with licensing) but observe their regulation! Before doweling check concrete floor with quality B 25 if the concrete floor goes to the top edge of the floor. In this case the dowels have to be chosen according to picture6. If the ground is covered with floor tiles, the dowels have to be chosen according to picture7.
- Check the line-up of the column and look if they ais vertical. If they is not vertical correct with suitible bases.
- Tighten the dowels with a dynamometric key (M = 80 Nm)

Each Liebig-dowel must be tightened with a torque of 80 Nm. The normal function of the lift cannnot be guaranteed.

- If the possible torque is 80 Nm and if the arched U-washer lies flat on the checking plate after tightening of the dowelnut, you have got a safety dowel connection
- Connect the power supply. The cable entry is at the top of the motor-box.

Adjusting of spindle-switches in motor case

- The spindle switches must be adjusted with load (with lifted vehicle). The difference between spindle and roll of the switch must **1mm**. These switches remain in effect when the lift drives onto an obstacle or when the lift lowers.
- Check direction of motor rotation. The arrow symbols of the pressure switch (lift or lower) must agree with the rotating direction of the lift. Otherwise you have to change the phases of the supply line.



1: motor
2: spindle switch
3: spindle

pic 5:
switch at the top of the spindle

Installation of carrying arms

- Install carrying arms and bolts top and bottom with enclosed circlips.

  The carrying bolts must be secured at both sides , otherwise a correct connection between lift carriage and carrying arm cannot be guaranteed.

- Lift and lower the lift with vehicle several times, tighten dowels a second time (M = 80 Nm)

Initiation

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

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

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

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

Changing of the installation place

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

- Lift carriage to medium height
- Take away current supply from lift
- Dismount carrying arms (take off crclips from carrying arm bolts, take off carrying arm bolts and dismount carrying arms)
- Loosen screws from base frame and take off column
- Hebebühne zum neuen Aufstellungsort transportieren
- Install lift in accordance with chapter ”Installation and Initiation” of the lift.

❗ ***Use new dowels, The used dowels cannot be used any more.***

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

picture 6: choice of the dowel lengths(without base frame, without floor pavement or tile surface

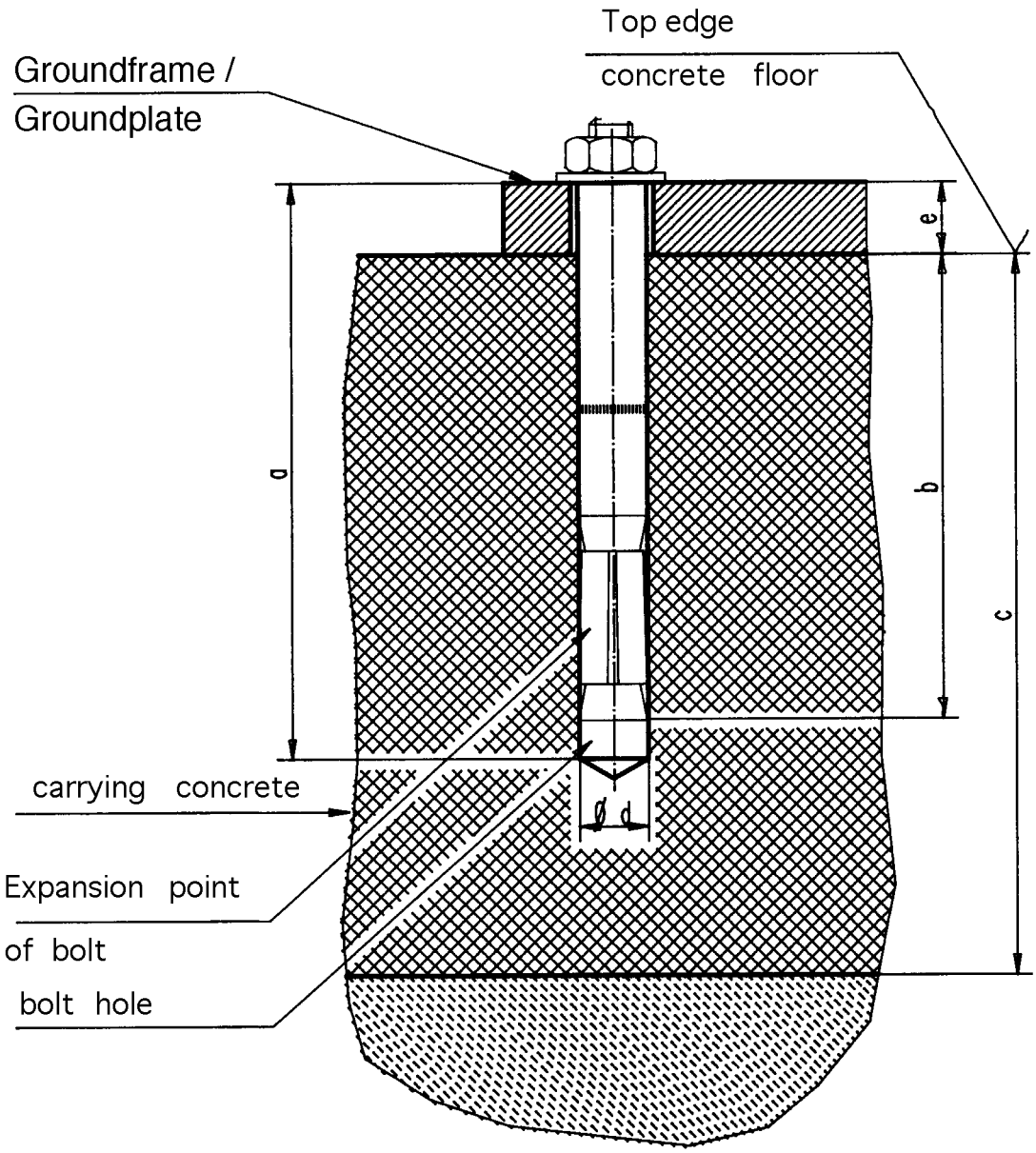


table to picture 6:

type of Liebig-dowel		B 20/175
Drilling depth	a	225
min. anchorage depth	b	170
thickness of concrete	c	260
diameter of bor	d	20
thickness of the Lift-piece	e	0-65

☞ ***You can use equivalent characteristics dowels another dowel manufacturer (with licensing) but observe their regulation!***

pic 7: choice of the dowel lengths (without base frame, with floor pavement or tile surface)

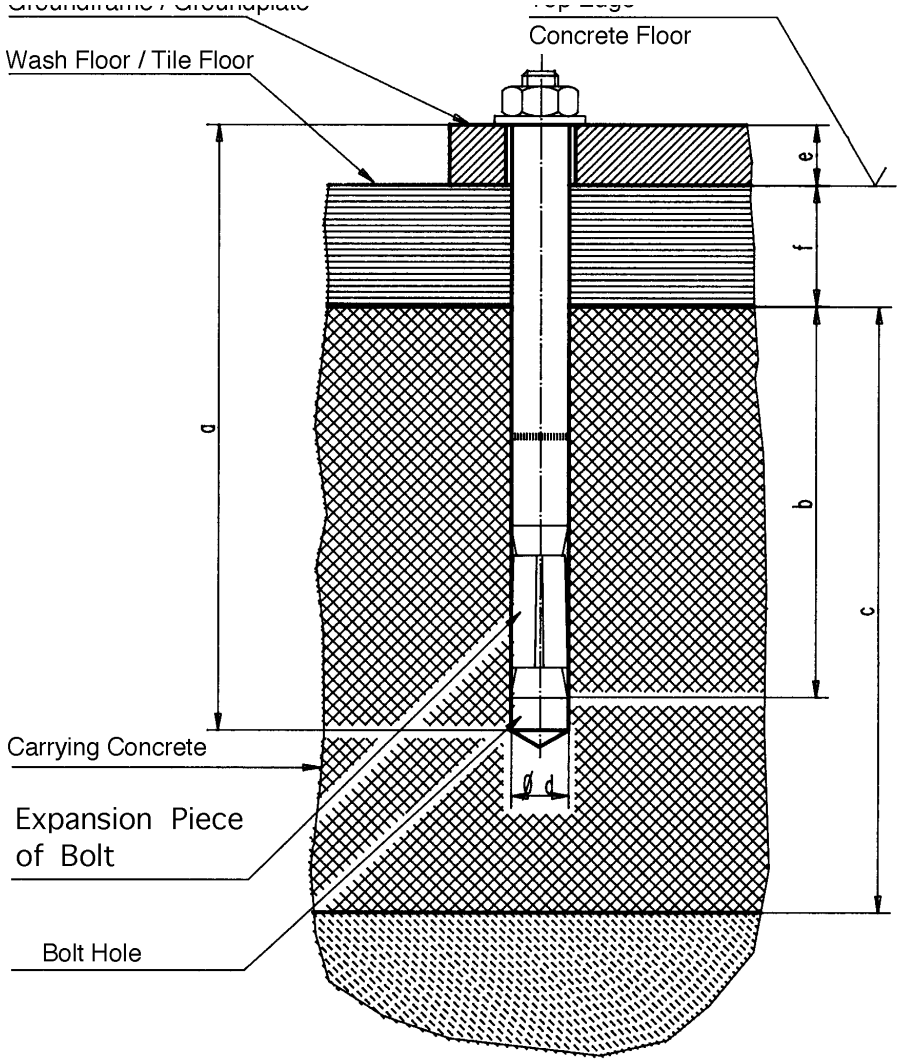


table to picture 7:

type of dowel		B 20/175	B 20/125
Drilling depth	a	225	275
min. anchorage depth	b	170	170
thickness of concrete	c	260	260
diameter of bor	d	20	20
thickness of the Lift-piece +thickness of floor pavement	e+f	0-65	65-115

☞ ***You can use equivalent characteristics dowels another dowel manufacturer (with licensing) but observe their regulation!***

First security check before installation

☞ **to fill in and to leave in this document**

kind of check	all right	defect lacking	veri-fication	Remark
Type plate	☐	☐	☐	.....
Short operating instructions	☐	☐	☐	.....
Warning designation	☐	☐	☐	.....
Detailed operating instructions	☐	☐	☐	.....
Designation Lifting/Lowering	☐	☐	☐	.....
Main switch lockable	☐	☐	☐	.....
Function switching off	☐	☐	☐	.....
Rotating direction of motor	☐	☐	☐	.....
Securing of carrying arm bolts	☐	☐	☐	.....
Securing of pads	☐	☐	☐	.....
Construction (deformation, cracking)	☐	☐	☐	.....
Fixed seat of the carrying screws	☐	☐	☐	.....
Condition spindle and carrying nut	☐	☐	☐	.....
Smooth running of the lift	☐	☐	☐	.....
Stability of the lift	☐	☐	☐	.....
Function slack rope switch	☐	☐	☐	.....
Fixing of stopping rod	☐	☐	☐	.....
Function equalisation control	☐	☐	☐	.....
Condition coverings	☐	☐	☐	.....
Condition electrical wiring	☐	☐	☐	.....
Protective conductor ...	☐	☐	☐	.....
Function test automotive lift with vehicle ..	☐	☐	☐	.....
Condition concrete floor (cracks) ...	☐	☐	☐	.....
Fixing device	☐	☐	☐	.....
Condition bolt	☐	☐	☐	.....

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

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security check carried out: .....

Name, address of the competent.....

Result of the Check:

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

Signature of the expert:..... Signature of the operator:.....

If failures must be repaired

Failures repaired at: ..... Signature of the operator:.....

(Use another form for verification!)

Regular security check

☞ **to fill in and to leave in this document**

kind of check	all right	defect lacking	veri-fication	Remark
Type plate	☐	☐	☐	.....
Short operating instructions	☐	☐	☐	.....
Warning designation	☐	☐	☐	.....
Detailed operating instructions	☐	☐	☐	.....
Designation Lifting/Lowering	☐	☐	☐	.....
Main switch lockable	☐	☐	☐	.....
Function switching off	☐	☐	☐	.....
Rotating direction of motor	☐	☐	☐	.....
Securing of carrying arm bolts	☐	☐	☐	.....
Securing of pads	☐	☐	☐	.....
Construction (deformation, cracking)	☐	☐	☐	.....
Fixed seat of the carrying screws	☐	☐	☐	.....
Condition spindle and carrying nut	☐	☐	☐	.....
Smooth running of the lift	☐	☐	☐	.....
Stability of the lift	☐	☐	☐	.....
Function slack rope switch	☐	☐	☐	.....
Fixing of stopping rod	☐	☐	☐	.....
Function equalisation control	☐	☐	☐	.....
Condition coverings	☐	☐	☐	.....
Condition electrical wiring	☐	☐	☐	.....
Protective conductor ...	☐	☐	☐	.....
Function test automotive lift with vehicle ..	☐	☐	☐	.....
Condition concrete floor (cracks) ...	☐	☐	☐	.....
Fixing device	☐	☐	☐	.....
Condition bolt	☐	☐	☐	.....

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

security check carried out: .....

Name, address of the competent.....

Result of the Check:

Initation not permitted, verification necessary

Initation possible, repair failures until .....

No failings, Initation possible

Signature of the expert:..... Signature of the operator:.....

If failures must be repaired

Failures repaired at: ..... Signature of the operator:.....

(Use another form for verification!)

Extraordinary security check

☞ **to fill in and to leave in this document**

kind of check	all right	defect lacking	veri-fication	Remark
Type plate	☐	☐	☐	.....
Short operating instructions	☐	☐	☐	.....
Warning designation	☐	☐	☐	.....
Detailed operating instructions	☐	☐	☐	.....
Designation Lifting/Lowering	☐	☐	☐	.....
Main switch lockable	☐	☐	☐	.....
Function switching off	☐	☐	☐	.....
Rotating direction of motor	☐	☐	☐	.....
Securing of carrying arm bolts	☐	☐	☐	.....
Securing of pads	☐	☐	☐	.....
Construction (deformation, cracking)	☐	☐	☐	.....
Fixed seat of the carrying screws	☐	☐	☐	.....
Condition spindle and carrying nut	☐	☐	☐	.....
Smooth running of the lift	☐	☐	☐	.....
Stability of the lift	☐	☐	☐	.....
Function slack rope switch	☐	☐	☐	.....
Fixing of stopping rod	☐	☐	☐	.....
Function equalisation control	☐	☐	☐	.....
Condition coverings	☐	☐	☐	.....
Condition electrical wiring	☐	☐	☐	.....
Protective conductor ...	☐	☐	☐	.....
Function test automotive lift with vehicle	☐	☐	☐	.....
Condition concrete floor (cracks) ...	☐	☐	☐	.....
Fixing device	☐	☐	☐	.....
Conditon bolt	☐	☐	☐	.....

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

security check carried out: .....

Name, address of the competent.....

Result of the Check:

Initation not permitted, verification necessary

Initation possible, repair failures until .....

No failings, Initation possible

Signature of the expert:..... Signature of the operator:.....

If failures must be repaired

Failures repaired at: ..... Signature of the operator:.....

(Use another form for verification!)

GS-certificate

RWTÜV

ZEICHENGENEHMIGUNGS-AUSWEIS Nr. 2938/95

Nur gültig mit umseitigen Vertragsbedingungen

RWTÜV Anlagentechnik GmbH, Steubenstraße 53, D-45138 Essen

GENEHMIGUNGSINHABER: Otto Nußbaum GmbH
Korker Str. 24 , 77694 Kehl

FERTIGUNGSSTÄTTE: s.o.

Geschäfts-Zeichen des Antragstellers	Antragsdatum	Aktenzeichen 596465/01	Ausstellungsdatum
Müller	30.03.95	7.2-1453/95	08.09.95

PRÜFZEICHEN: RWTÜV GS geprüfte Sicherheit

RWTÜV GS geprüfte Sicherheit

GERÄTEART:	Ein-Säulen-Hebebühne
Typbezeichnung:	1.20 S
Tragfähigkeit:	max. 2000 kg
Hubhöhe:	max. 2000 mm
Antrieb:	elektromechanisch
Nennspannung:	30 V, 3~, 50 Hz
Schutzklasse:	I
Netzanschluß:	fester Anschluß
Prüfunterlagen:	Bericht über die Prüfung von Berechnungs- und Zeichnungsunterlagen sowie über die Bau- und Abnahmeprüfung vom 20.02.86 .Zeichengehnemigungs-Ausweis Nr. 91/86 Blatt 1 , Bericht über die Prüfung eines technischen Arbeitsmittels Nr. 2937/95 .
GEPRÜFT NACH:	Maschinenrichtlinie Unfallverhütungsvorschrift "Hebebühnen" (VBG 14/04.77 in der Fassung vom 01.01.95)

WEITERE ANGABEN: VERGLEICHE ANLAGE 1 (AUFBAU-ÜBERSICHT)

Die Prüfstelle für Gerätesicherheit der RWTÜV Anlagentechnik, als vom Bundesminister für Arbeit und Sozialordnung benannte Zertifizierungsstelle für technische Arbeitsmittel mit den angeschlossenen Prüflaboratorien, bestätigt:
Die im Gesetz über technische Arbeitsmittel - in der ab 26.08.1992 geltenden Fassung - gestellten Anforderungen werden von dem(n) oben aufgeführten Gerät(en) erfüllt.
Die Genehmigung, das GS-Zeichen gem. den umseitig abgedruckten Vertragsbedingungen zu verwenden, wird hiermit erteilt.

Prüfstelle für Gerätesicherheit