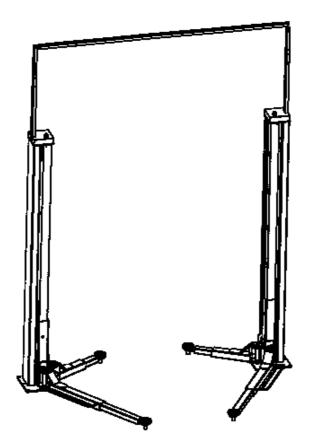


date: June 24th 1996



Operating instruction and documentation

serial-number.....



2.30 SL

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Appendix

Document "First security check before Installation" Document "Regular security check" Document "Extraordinary security check" Spare parts list

HEE	LECHNIK	2.30 SL
Ø	Send this record, filled in and automotive manufacturer after the	
Otto N	Nußbaum GmbH & Co.KG	
Korke	er Straße 24	
777694	4 Kehl-Bodersweier	
Germa	any	
	Record of inst	allation
The automoti	ve lift 2.30 SL with the	
serial number	was instal	led on
at the firm	at	
the safety was	s checked and the lift was startet.	
The installation	on was effected from the operating author	ity / competent (please delete as applicable)
The safety of	f the automotive lift was checked from	the competent before the initial operation
The operating initial operati		omotive lift, the competent attest the correct
date	name of the operating authority	signature of the operating authority
date	name of the competent	signature of the competent



2.30 SL

Record of handing over					
The automotive lift 2.	.30 SL with the				
serial number.:		was installed on			
at the firm		at			
the safety was checke	ed and the lift was starte	et.			
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).					
date	name		signature		
date	name		signature		
date	name		signature		
date	name		signature		
date	name		signature		
date	name of the competen	t	signature of the competent		

Introduction 1.

The document "Operating Instructions and Documentation" contains important infomation about installation, running and preserving of the 2.30 SL.

To furnish proof of installation of the automotive lift the form "Record of Installation" must be sent undersigned to the manufacturer.

To furnish proof of the single, regular and special security checks this documentation contains forms. The forms should be used to document the checks. They should also be left in this documentation.

Every **Changes in the construction** and **changing place** 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 the works concerning safety and to hold the safety checks of the lift. They are called experts and competents in this document.

- Experts are persons (for example self-employed engineers, TÜV-experts) which have got an instruction and experience to check and to test automotive lifts in an expert's report. They know the signified regulations for protection of labour and prevention of accidents.
- **Competents** are persons which have got enough knowledge and experience with automotive lifts. They took part in a training from the lift-manufacturer (servicing erectors of the manufacturer and the franchised dealer are Competents)

Information of danger

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

Danger!

This sign marks a danger to life. Inexpert handling of the marked series of event ist dangerous to life

Caution!

- This sign marks a caution against possible damage of the automotive lift or
- other material defects in case of inexpert handling.

Indication!



This sign marks an indication for an important function or for another *important note.*

Instruction and documentation

2.30 SL

Master document of the automotive lift 2.

Lift designation Lift-manufacturer 2.30 SL Otto Nußbaum GmbH & Co.KG Korker Straße 24 77694 Kehl-Bodersweier Germany

Application

The automotive lift 2.30 SL is a lifting stage for lifting and repairing vehicles with a laden weight of 3000 kg. The load of one carrying arm must not be more than 1000 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 check	king, resumption of work (date, kind of
change, signature of the expert)	
name, address of the expert	
, <u>1</u>	
place, date	signature of the expert
place, date Change of automotive-lift-place, expert che	
Change of automotive-lift-place, expert che	
Change of automotive-lift-place, expert che	
Change of automotive-lift-place, expert che and signature of the competent)	
Change of automotive-lift-place, expert che and signature of the competent)	



2.30 SL





3. Technical information

Technical ratings:

3000kg max. 1000 kg; It's not allowed to put the load only on one of the carrying arms
appr. 40 sec
1870mm
400 V three phase current
230 V
2 * 2,0 kW
1350 revolution/minute
75 dBA

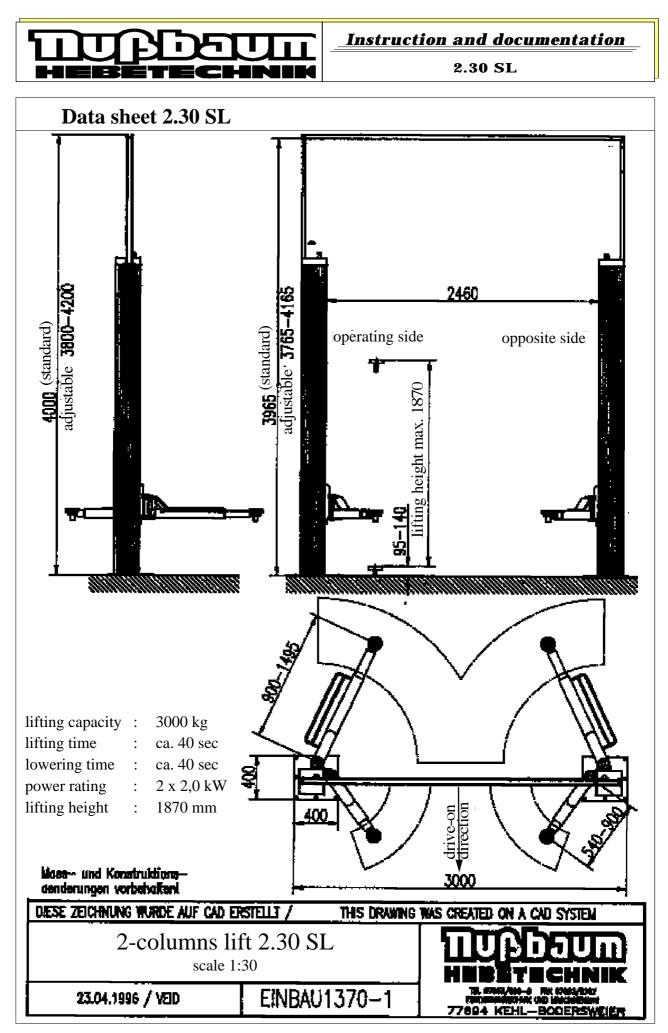
Safety devices

- 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. foot protector

Safety device of the lift against squashing in case of unauthorized lowering of the lift.





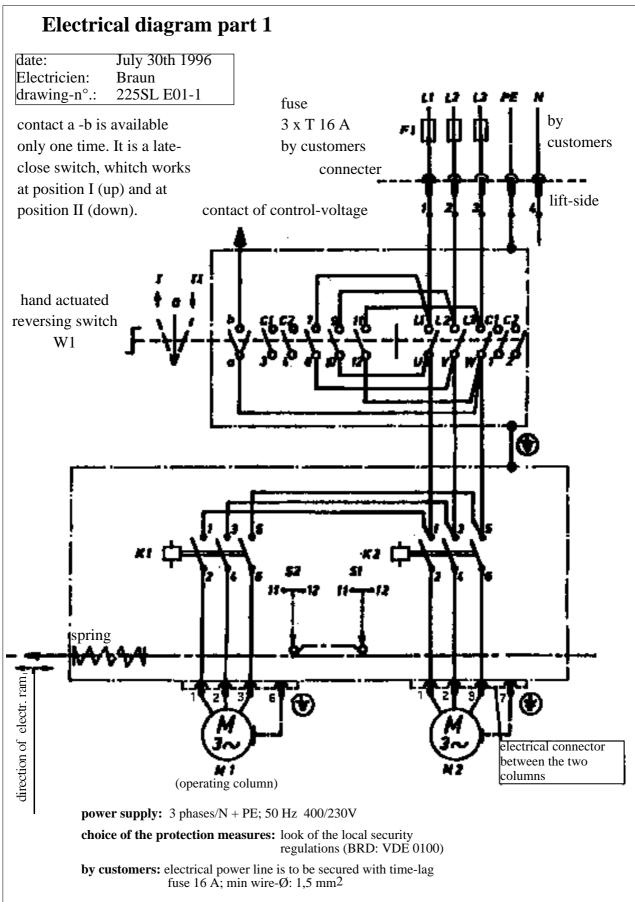
2.30 SL

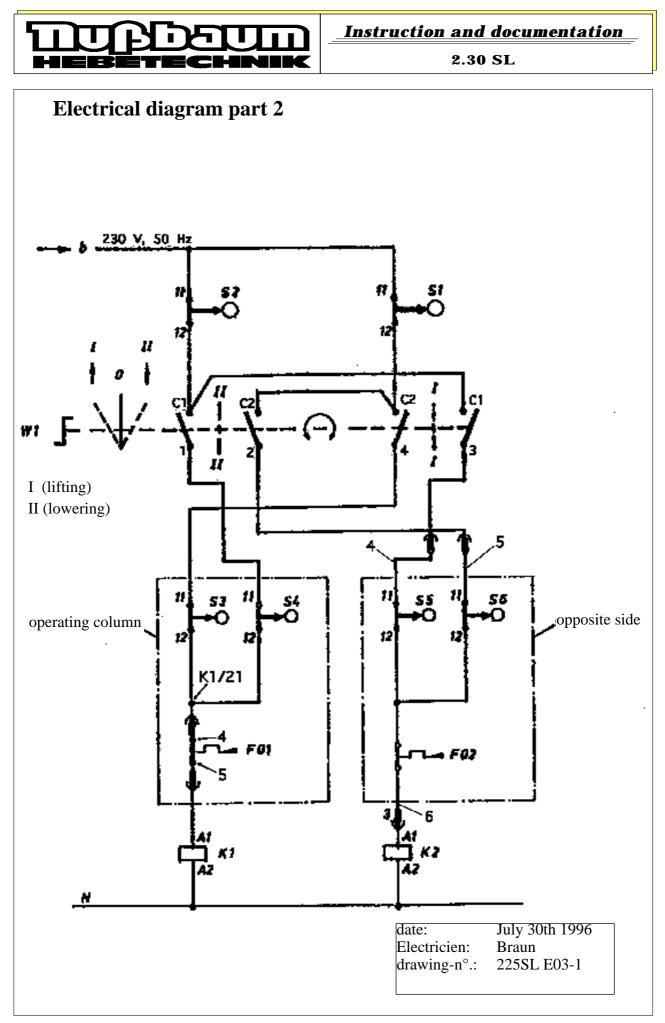
Foundation plan 1600 200 ⊏918 / e=150mm BStg Q 377 at eas **#**12 *) at least 150 mm for version with base frame bow reinforcement in both directions at the upper and lower side of the plate min 3,5 cm²/m (for example structural steel Q 377) revolving Ø8 / e = 150 mmat the edges Ø 12 concrete quality min. B 25 (DIN 1045) concrete covering for stiffenig steel 2 cm foundation base: frost-protected floor!



Block-foundationplan 3400 t100 200 reinforcement: constructional topside or bottom crosswise □#∮ 10/150 circulating at both sides VE 3 Ø 10 concrete covering for steel-insert 1100 2 cm ! building material: concrete at least BN 250 steel: structural steel 42150 structural steel 50155 foundation base: frost-protected floor with foundation pressure p from at least 15 N/qcm









2.30 SL

Electrical parts list

- F01: thermofuse in motor
- F02: thermofuse in motor
- K1: motor contactor
- K2: motor contactor
- M1: motor 400 V, 1350 U/min, 2,0 kW; operating column
- M2: motor 400 V, 1350 U/min, 2,0 kW; opposite column
- S1: switch group at tappet (upper side)
- S2: switch group at tappet (lower side)
- S3: top limit switch; operating column
- S4: bottom limit switch; operating column
- S5: top limit switch; opposite column
- S6: bottom limit switch; opposite column
- W1: reversing switch



4. Safety regulations

Using automotive lifts for working the Regulations of Accident Prevention (VBG1: General Regulations, 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 3000 kg for automotive lift 2.30 SL, the lifting capacity of one carrying arm mustn't be more than 1000 kg for 2.30 SL. 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
- 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 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
- Switching on or switching off the lift pay attention that the lifting and lowering movement are steady
- It's not allowed to install the standard-automotive lift in hazardous location

Operating instructions 5.

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!

Indication: lift can be adjusted repeatedly during operating

The operating elements are shown in **picture 2**.

Lifting the vehicle with the automotive lift

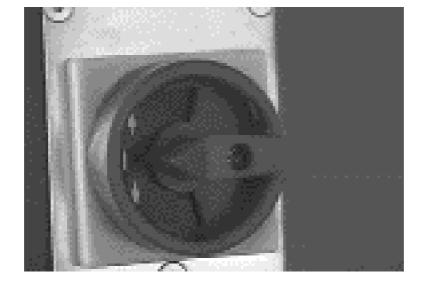
- Drive vehicle in the lift, longitudinal directon and transverse direction in centre
- Determine adjustable pads at the points which are provieded from the vehicle manufacturer (pic. 1)
- Control the dangerous places of the lift and be sure that there are no objects or people in the immediate area of the lift or on the lift
- lift the vehicle free and check the sit of the pads





pic. 1: Determine adjustable pads at the points which are provieded from the vehicle manufacturer

pic. 2: reversing switch



- lift the vehicle until the wheels are free; turn reversing switch to "lifting"-position (upside)
- When the wheels are free: interrupt lifting and check the sit of the pads again



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;turn reversing switch to ,,lifting"-position (upside)

NIK

2.30 SL

Lowering the vehicle with the automotive lift

LY 17-1

- 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; switch to "lowering"-position (downside)
- Drive vehicle out of the lift, when 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 Potential causes of trouble:	 starts, lift is not lifting! broken nut: refer to function of switching off height limit switch is engaged torn control rope
Problem: Lift car	nnot be lowered!
Potential causes	 bottom limit switch is engaged
of trouble:	• broken nut: refer to function of switching off

• torn control rope

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. For this take care, that the height difference between right and left carriage is not more than 10 mm.

Function of limit switches

If the lifting carriage or the extension arm has driven because of inattentiveness onto an obstacle, the lift stops automatically.

To avoid blocking of the lifting carriage (operating 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 minutes(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't be lifted any more. Simultaneously (in case of broken lifting nut) the tappet is pulled from the control rope until the position switches are pressed and both motors shut down. The lift cannot be operated from the operating elements 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.

Control of synchronization (mechanically)

To guarantee synchronization of the two lifting carriages, the lifting carriages are connected via control rope with a tappet. In case one lifting carriage is max. 20 mm earlier at a definite height, the tappet is pulled. The tappet presses one of the two position switches located at the tappet and this carriage which has been earlier at the definite height stops until both carriages are at the same height again.

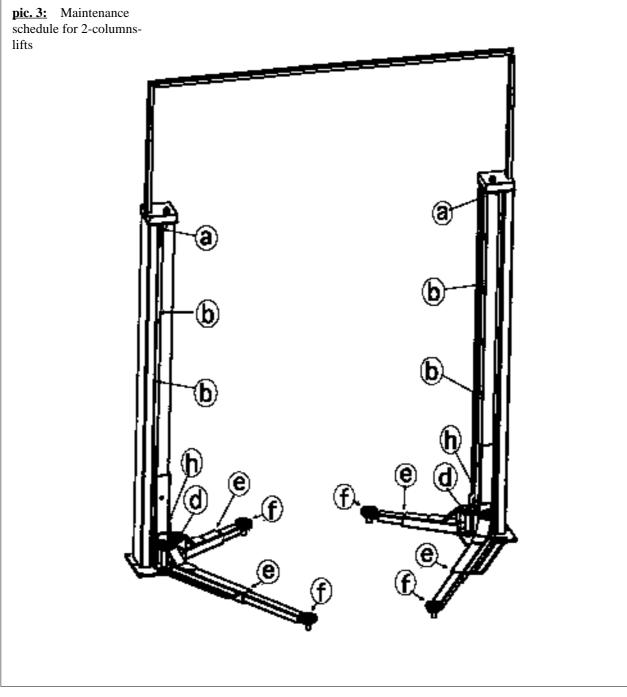


In case of torn control rope a pressure spring presses the tappet down until both switches are pressed and both motors are switched off.

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.



2.30 SL

Maintenance schedule for the lift (see picture 3)

- **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
- **g** Grease control ropes and pulleys monthly with multipurpose fat a little bit and lubricate them with oil-spray (non-resin) a little bit.

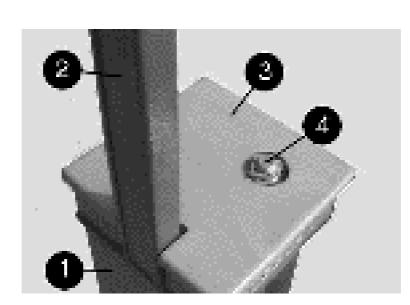
When the lift is installed the lubricating felt between nut-support and lifting nut is to oil very well. Use a saw-chain oil which can also be used when the spindle is rotating and which doesn't be thrown away. The oil recevoir constituted from the carrying plate, must be filled with oil completely.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

Adjusting of the polyflex-belt

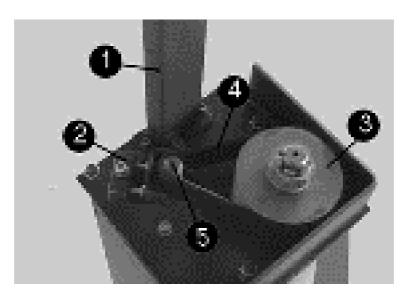
If the driving-belt is replaced the belt-tension must be probably adjusted again. For this the coverings of the columns must be removed (**pic. 4**). Afterwards the belt-tension is adjusted again at the "tension-element" (**pic. 5**): Loosen the 3 fixing screws of the motor (**pic. 6 n° 1**) for one turn. Now the belt can be tensioned or be loosen up (**pic. 6 n° 2**). With the help of an accessory-tool (**pic. 7**), which can be sent from *Nuβbaum Hebetechnik GmbH & Co.KG*, and a spring balance (**pic. 8**) the polyflex-belt is adjusted to its right belt-deflection (max. 1,5 mm).

The necessary force for deflection of the belt (belt-deflection: 1,5 mm) is 65 N! For this the accessory-tool must be touched the belt as shown in **pic. 9**. Afterwards the fixing screws of the motor must be fastened again.





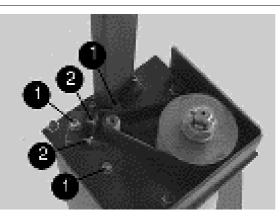
pic. 4: covering of the column
1: column; 2: ascending pipe; 3: covering of the column; 4: spindle



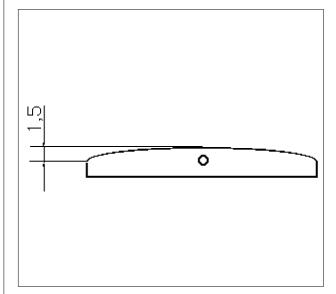
pic. 5: Position of the driving-belt1: ascending pipe; 2: tension-element for adjusting the belt-tension; 3: pulley;4: polyflex-belt (driving-belt); 5: motor shaft

Instruction and documentation

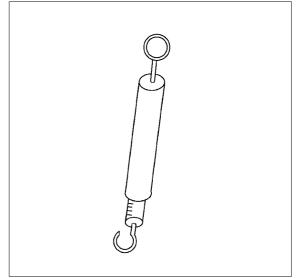
2.30 SL



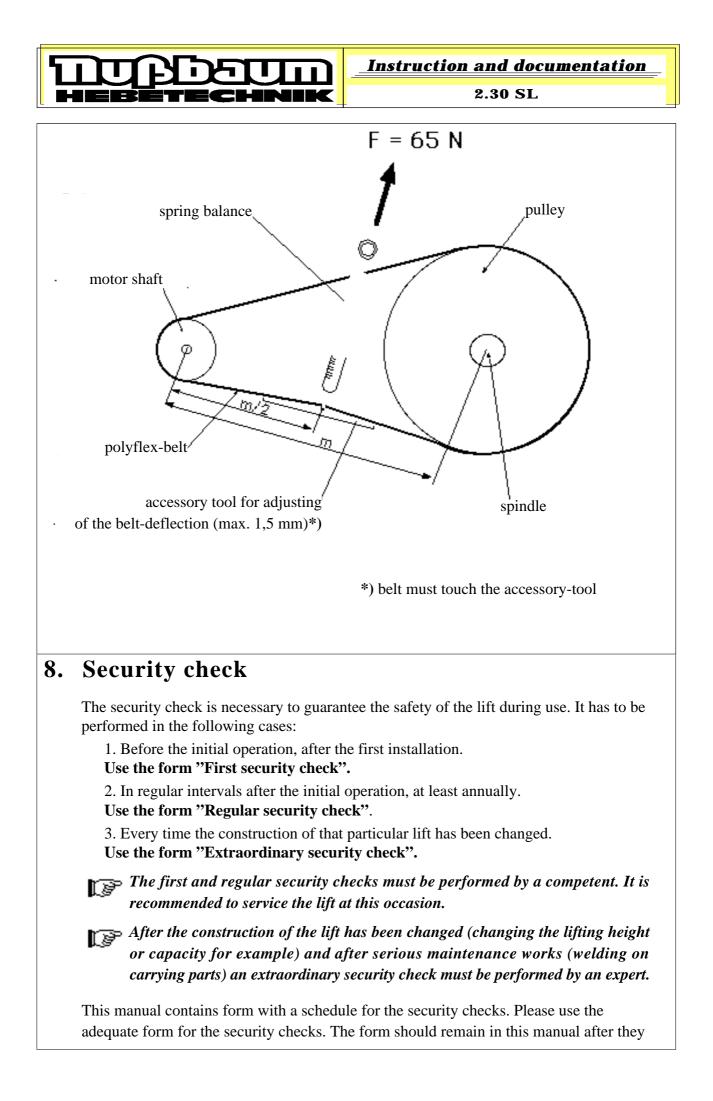
- pic. 6: adjusting of the belt-tension
 1: fixing screws of motor
- 2: adjusting screws for belt-tension



pic. 7: accessory-tool for adjusting of the maximum belt-deflection of 1,5 mm

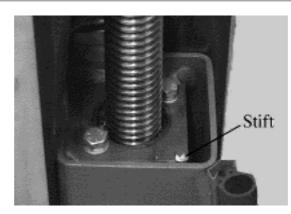


pic. 8: spring balance for adjusting of the belt-tension (65 N)



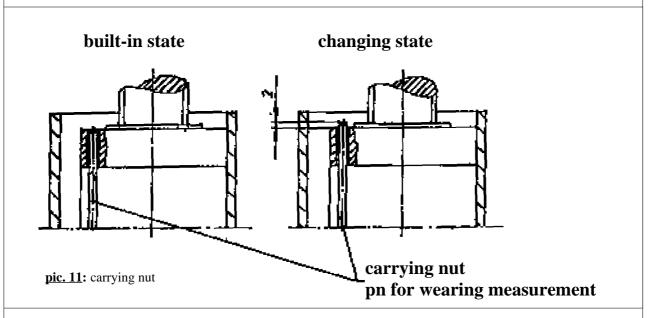
have been filled out. In the following there is a short description about special safety devices.

• 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. 10**). This pin must be even with the top edge of the carrying plate (lifting carriage



<u>pic.</u> 10 : lifting carriage with pin (= Stift)

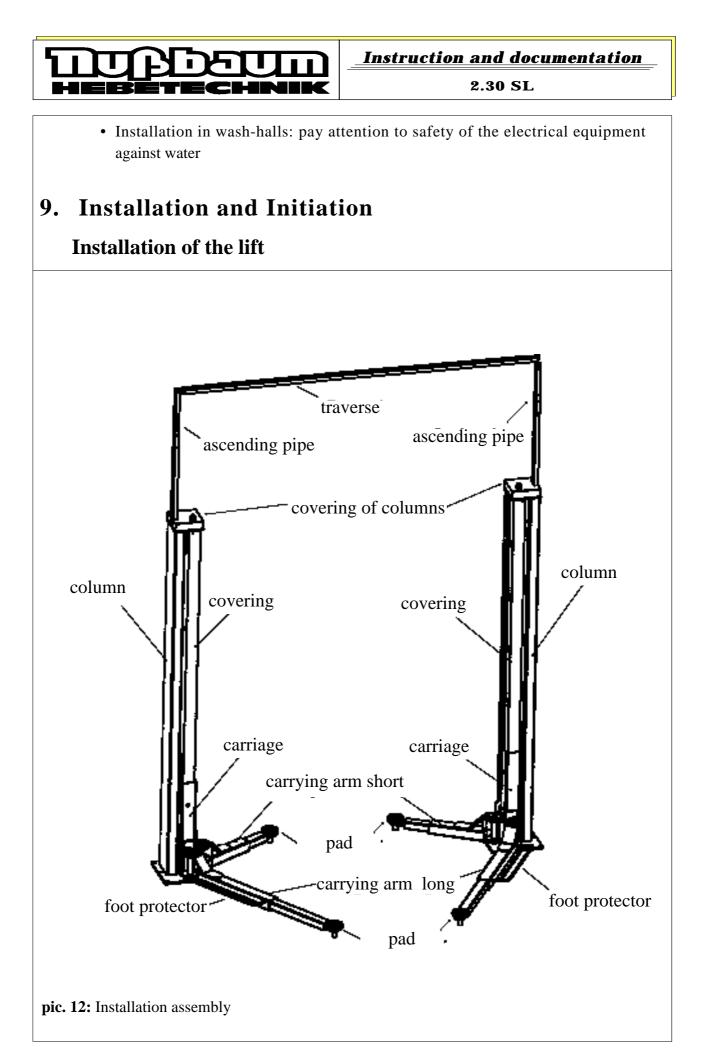
upper side; built-in state see **pic. 11**). If the pin looks 2 mm out of the top edge at the annually check (see **pic. 10** changing state) the carrying nut and the sequence nut must be changed.



• Check height limit switch and bottom limit switch. They 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.

• stability: The nuts of the dowels must be tightened with a dynometric key (M = 80 Nm)



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/230 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 mm².
- The cable entry in the column is located in operating column (motor box) topside (standard version). 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

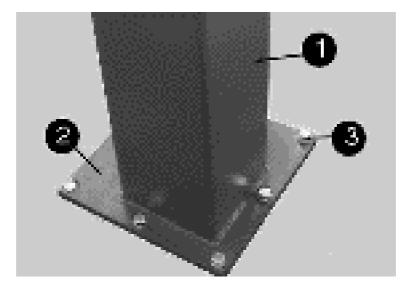
Erection and doweling of the lift

It is necessary to dowel the lift against slipping. For this you need a concrete floor with a thickness of at least 200 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 (\emptyset 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.

- Put and line up columns in accordance with data sheet to the installation place. Screw cable suspension bridge on columns
- Check position of the lift
- Bore holes to fix the dowels through the borings of the base plates (**pic. 13**). Clean holes with pressure air. Put in safety dowels with washers in borings. The manufacterer demands LIEBIG safety dowels type B 20. 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 **picture20**. If the ground is covered with floor tiles, the dowels have to be chosen according to **picture 21**.
- Check the line-up of the columns and look if they are vertical. If they aren't vertical correct with suitible bases.
- Tighten the dowels with a dynamometric key (M = 80 Nm)





pic. 13: doweling 1: column; 2. base plate; 3: safety-dowel



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

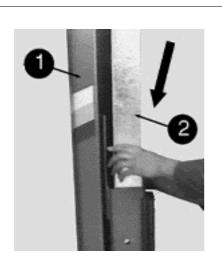
- If the possible torque is 80 Nm and if the arched U-washer lies flat on the checking plate after tightening of the dowelnut, you have got a safety dowel connection
- Unscrew coverings at the frontside and backside of the operating column.
- Connect power supply. The cable entry is at the top of the motor-box (operating column) for standard version. The coverings at frontside are only fixed at the top and can be pulled out after unscrewing. But for this the lifting carriages must be lowered to lowest position (see **pic. 14, pic. 15** and **pic. 16**)

Electromounting and Supplypoint

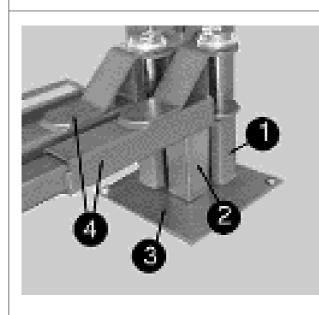
- There are two cables in the operating column: with 7 wires and with 5 wires
- The 5-wires-cable is for connection with power supply (wire 4 is neutral-wire!). The 7-wires-cable is pulled through the traverse to opposite side (the ascending pipe has got an opening with screwing. Through this opening the electrical cable can be pulled.
- Afterwards there must be wired at the top of the opposite column



2.30 SL

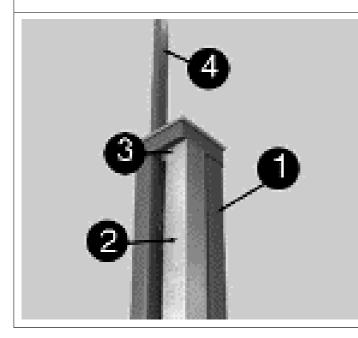


- pic. 14: Put in coverings
- column
 covering of column



pic. 15: covering lower side

- 1. column
- 2. covering of column
- 3. base plate
- 4. carrying arms



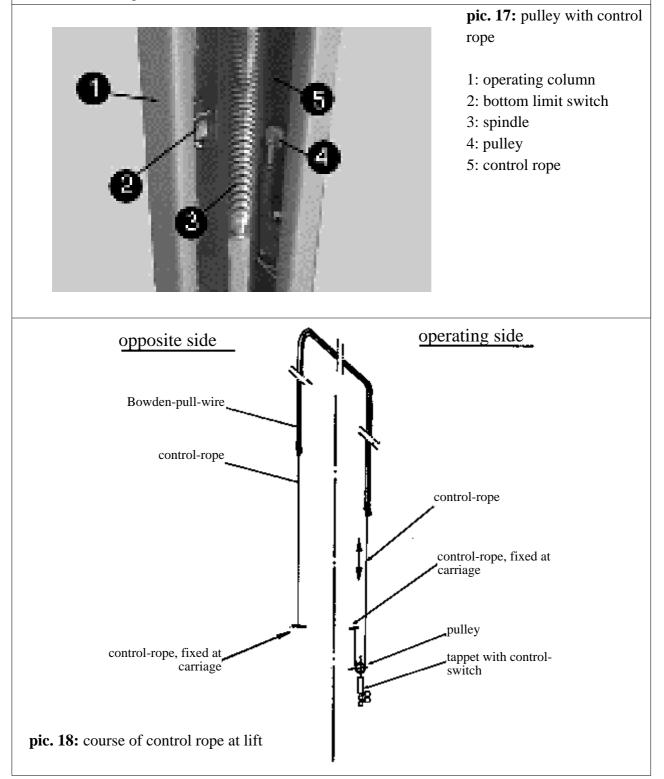
pic. 16: covering top side

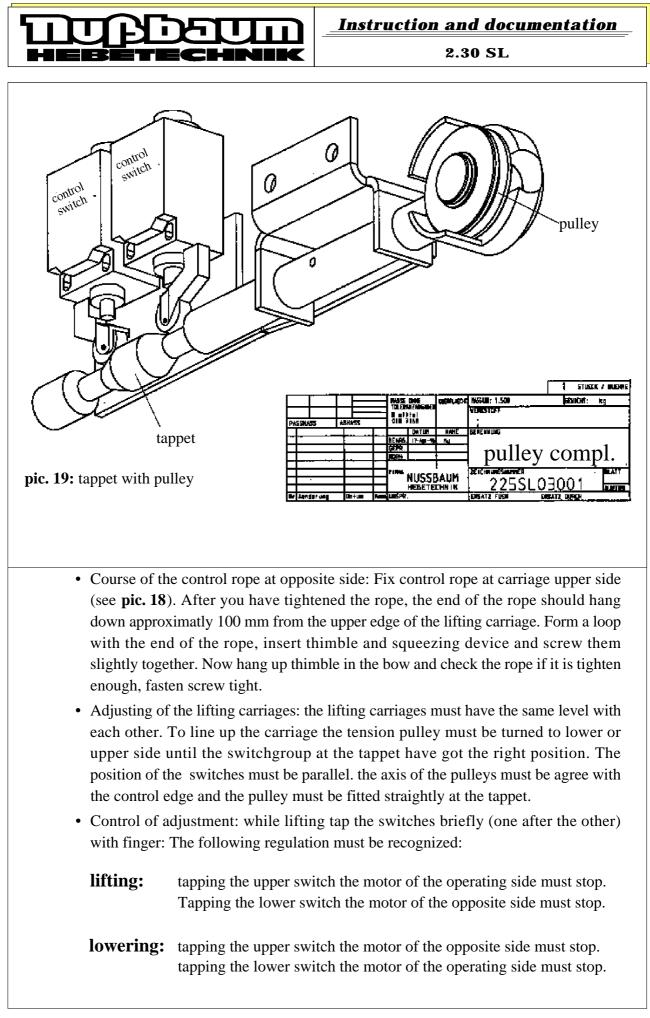
- 1. column
- 2. covering
- 3. screws for covering
- 4. ascending pipe for electrical wires and control rope



Installation of control rope

- Pull Bowden-pull-wire through ascending pipes and through traverse (pic. 18).
- Pull hang-up nipple, which is connected with the end of the control-rope, from column headplate to lower side of **operating column**. Put control-rope round the pulley, which is connected with the tappet (**pic. 17 and 19**). Hang-in control rope at carriage.

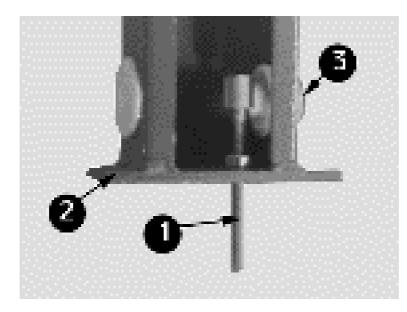






Additional installation of control rope (since June 24th 1996)

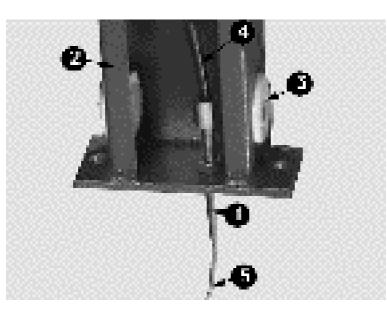
For regulation of control rope an accessory adjusting screw is mounted at ascending pipe of opposite side. (**pic. 19a**)



pic. 19a: Position of adjusting screw at ascending pipe of opposite side

- 1: adjusting screw
- 2: ascend. pipe oppos. s.
- 3: cable bushing for electrical power supply and for control cable

Put bowden shell of control rope in adjusting screw. Pull control rope through shell and through adjusting screw (**pic. 19b**).



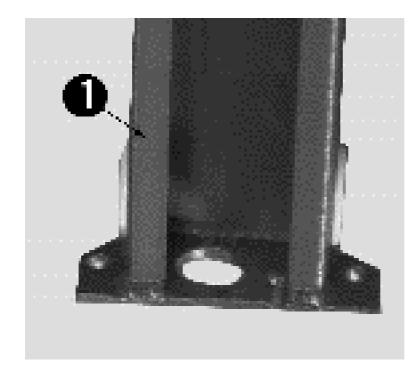
pic. 19b: adjusting screw with bowden cable

1: adjusting screw

- 2: ascend. pipe oppos. side
- 3: cable bushing for electrical power supply and for control cable
- 4: bowden shell
- 5: control rope



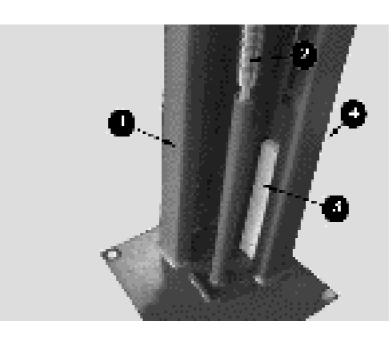
There is a difference between ascending pipe of opposite and operating side you can see at **pic. 19c**:



pic. 19c: ascending pipe of operating side

1: ascending pipe of operating side

The wooden bar for installation is positioned under the tappet (**pic. 19d**) to avoid activating of the control switches during installation. After mounting of control rope, the wooden bar must be removed.



pic. 19d: wooden bar at tappet

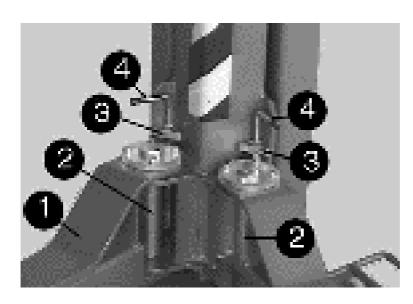
1: operating column

- 2: spindle
- 3: wooden bar
- 4: control switch

2.30 SL

Installation of carrying arms

• Install carrying arms and bolts top and bottom with enclosed circlips (pic. 20).



pic. 20: Installation of the carrying arms

- 1: carrying arm
- 2: bolt of carr. arm
- 3: fixing device
- 4: pull-rod

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



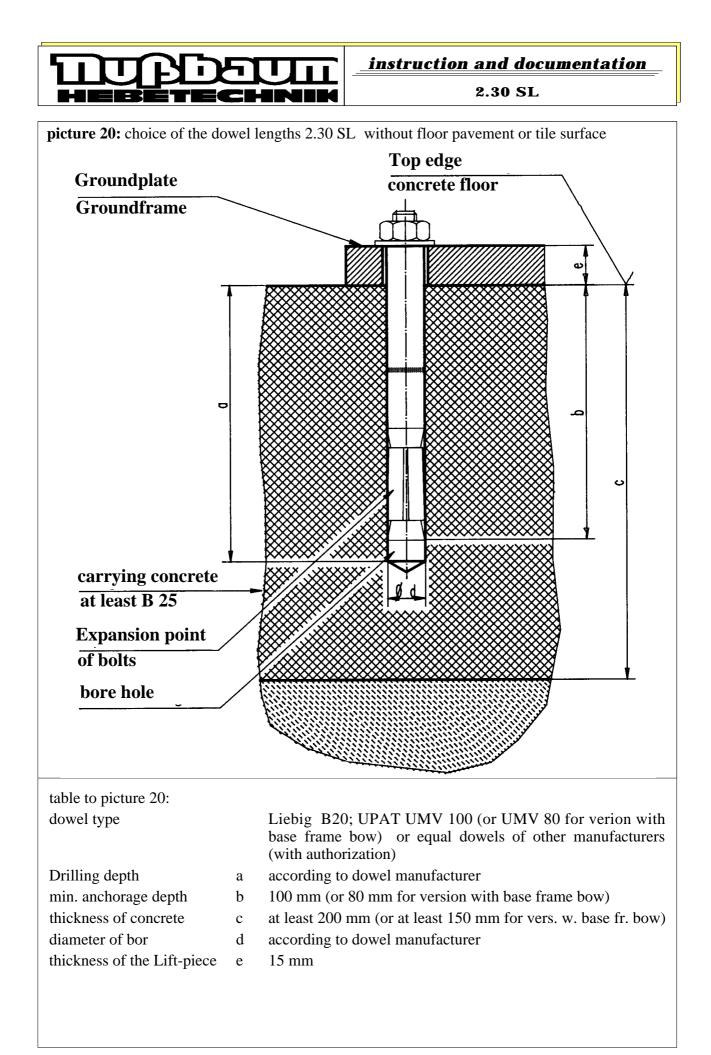
arm bolts and dismount carrying arms)

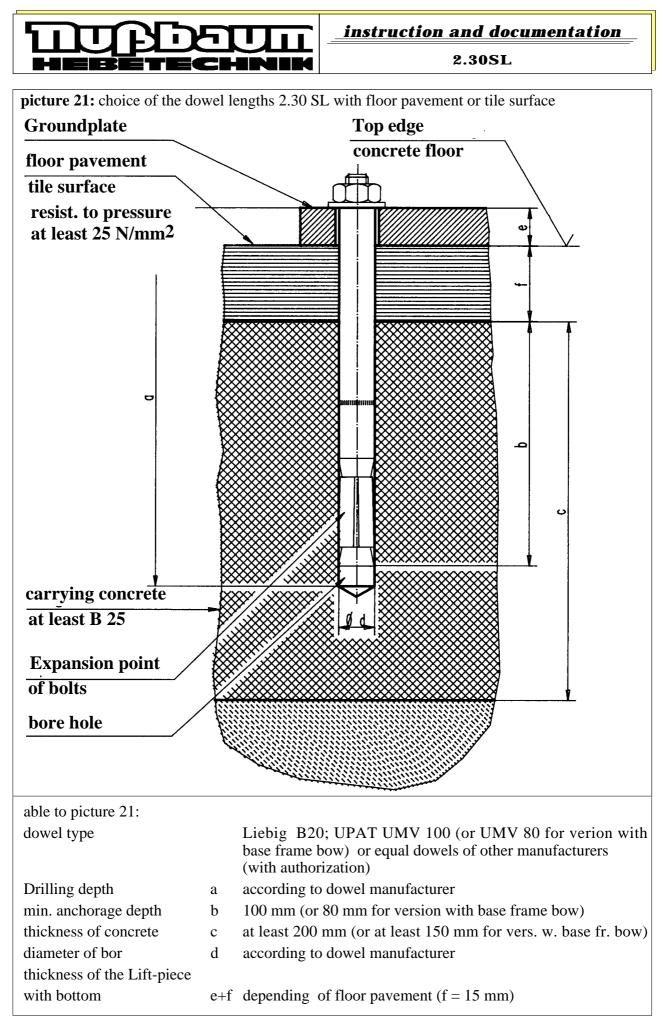
- Take off load chain at the chain connection
- Loosen screws from base frame and take off columns
- Install lift in accordance with chapter "Installation and Initiation" of the lift.

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".







security check

2.30 SL

First security check before installation

r 30	to fill in and to leave in this document
LS -	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 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 m	ark in ac	ldition to	o the firs	t 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:		Signat	ure of tl	ne operator:	
If failures must be repaired					
Failures repaired at: Signature of the operator:			ne operator:		
(Use another form for verification!)		0		1	



security check

2.30 SL

Regular security check

Regular security check			Ľ	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 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	. verifi	cation n	ecessar	v
•				
			•••••	
No failings, Initation p	ossible)		
Signature of the expert:		Signat	ure of t	he operator:
If failures must be repaired				
Failures repaired at:		Signat	ure of t	he operator:



security check

2.30 SL

Extraordinary security check

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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 equalisation control				
Condition coverings				
Condition electrical wiring				
Protective conductor				
Function test automotive lift with vehicle				
Condition concrete floor (cracks)				
Zustand Tragarmarretierungen				
Zustand Bolzen				
(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	l, verifi	cation r	necessar	У
Initation possible, repa	ir failu	res until	l	
No failings, Initation p				
Signature of the expert:		Signat	ture of t	he operator:
If failures must be repaired				
Failures repaired at:		Signa	ture of t	he operator:
(Use another form for verification!)	•	Signa		