



Operating Instruction

Floor-running pit lifts



Type

Serial number

Date

Operating Instruction

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1 Safety

1.1 Safety instructions in this manual



Danger
Risk to life and limb.



Warning
Material damage.



Information and tips.

2 Introduction

BLITZ lifts represent the result of an experience lasting for years. The high demand for quality as well as the superior concept guarantee reliability, high durability and economic operation. To avoid needless damage or danger, you should read carefully and observe these operating instructions. These operating instructions are valid for underfloor lifts running on rail carriage (Fig.1) and for freely moveable lifts (Fig.2).

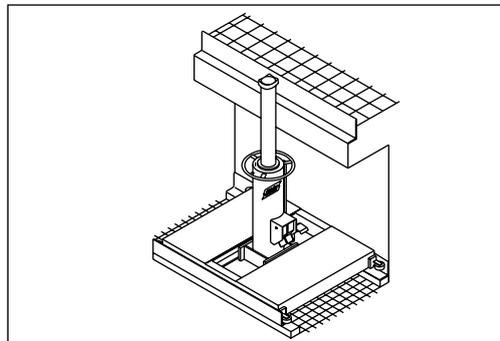


Fig. 1:

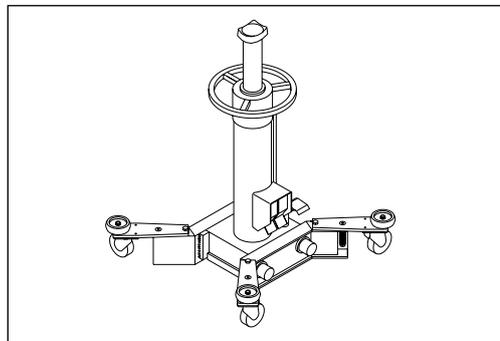


Fig. 2:

2.1 Application range of BLITZ PIT LIFTS

BLITZ Pit Lifts are only to be used for partial lifting of vehicles with follow up support and/or lifting or lowering of vehicle parts (as e.g. engines, gear-boxes etc.). The total load must not exceed the allowable capacity of the pit lift.



Any other use above the described function is not allowed.

BlitzRotary GmbH will not take any responsibility for damages resulting from misuse. The risk is entirely on the part of the user.

The appropriate operation also covers:

- observation of all items of these instructions for use and
- the carrying out of Inspection- and Serviceworks and the specified tests.

2.2 Warranty and Liability

Generally our "General Conditions of Sales and supplies" are valid. These are available to the user as of the time of contracting. Warranty- and Liability- claims for personal and property damage are excluded if based on one or more of the following reasons:

- use of the lift contrary to its destined application.
- inexpert mounting, set to operate, running and maintaining the pit lift.
- Operation with condensate- and/or dirt-holding compressed air.
- Operating of the pit lift with defect safety devices or inexpertly mounted or not functional safety and protection devices.
- Neglecting the remarks in the instructions for use concerning transport, storage, mounting, starting, operating and maintaining of the pit lift.
- Unauthorised changing of the pit lift.
- Insufficient control of parts, which are liable to wear.
- Inexpertly carried out repairs.
- Cases of catastrophe by foreign matters and Act of God.

Service-requests and cost for returning, caused by non-observation of the listed points, cannot be accepted by us. Therefore in case of return please approach the manufacturer.

3 Safety / Accident Prevention

The pit lift must only be operated by trained personal. Unauthorised people are not allowed to operate the pit lift!

3.1 Remarks concerning observation of instructions for use

- Prior condition for safety-conform and faultless operation of the pit lift is the knowledge of the general safety remarks and safety instructions.
- The instruction for use have to be observed by all persons working with the pit 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.

3.2 Obligations of the operator

The operator is obliged to allow only those persons complying to the following requirements 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.

3.3 Dangers when operating the pit lift

BLITZ Pit 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 pit lift inexpertly.

The unit must only be operated

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



Warning

Disturbances prejudicing the safety have to be removed immediately.

- The pit lift must only be operated when there is no danger for persons.
- The motion area of the pit lift must be held free.
- No persons should be allowed within the motion area of the pit lift.
- The allowable capacity of the pit lift must not be exceeded.
- Entering of the pit lift, ascending with it and mounting of the load is forbidden.
- The lift must only be loaded centrally, lift the vehicle, look for safe harbouring of it and only then can the vehicle be lifted to the desired height. Secure vehicle against rolling off.
- Lifting and lowering movements must be carried out evenly. While in motion observe the load.
- Lifted load must be secured by supporting bridges or tripods.
- The lifter may only be operated on a level surface with a suitable load-bearing capacity.
- The incline of the pit must not exceed 1°.

3.4 Organizing 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 pit lift are to be observed.
- Keep all safety- and danger-hints at the pit lifts in readable condition.
- Changes, additional mountings or constructional variations impairing the safety must not be carried out without the approval of the manufacturers. This goes particularly as far as welding works at carrying parts are concerned.
- Spare parts must comply with technical requirements laid down by the manufacturer. This is only warranted with original parts.

Operating Instruction Safety / Accident Prevention

- Consider time intervals given or fixed in instructions for use for repeated tests/ inspections.



In case of malfunction stop and secure the pit lift immediately.
Care for remedy of faults immediately.

3.5 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 to. These works must only be carried out by expert personal.
- After maintenance- and repair works loose screw connections must always be firmly tightened.
- Care for safe and friendly to environment disposal of operating and auxiliary process materials as well as exchanged parts.

3.6 Special Dangers

Hydraulic, Pneumatic

- Works at hydraulic devices must only be made by personal with special knowledge and experience in hydraulic!
- All tubes, hoses and connections must in regular intervals be checked for leaks and visible damages. Damages must be repaired immediately. Splashing oil may lead to injures and fire!
- Pressure lines to be opened (hydraulic, pneumatic) must be set pressureless prior to starting repair works.
- Hydraulic- and pneumatic lines are to be laid out and mounted in an expert way. Do not interchange connections. Armatures, lengths and quality of tubings must comply with the requirements.

Oil, grease and other chemical stuff

While handling oils, greases and other chemical stuff the existing safety rules as they are valid for the single products are to be observed.

Complying Safety Standards

DIN EN 292 / DIN EN 294 / prEN 349 / EN 414 / EN 418 / prEN 811 / EN 50099 / EN 60204
ISO 1219 / ISO/DIS 11530

4 Technical data

Model	Pit Star/Pit Boy/Big Jack											
	14/ 14/7	4/ 1,5	10/ 4	14/ 14	20/ 14	6	10	14	20	30	14/ 14/14	
Capacity 1. stage	t	14	4	10	14	20	6	10	14	20	30	14
Capacity 2. stage	t	14	1,5	4	14	14						14
Capacity 3. stage	t	7										14
Lifting height	mm	1000	1100	1100	1200	1200	800	800	800	800	800	1100
Admissible connecting pressure	bar	15										
Working pressure hydraulic	bar	220	80	199	278	278	120	199	220	163	245	298
Working pressure pneumatic	bar	12	6	10	12	12	7	10	11	88	12	12
Oil contents tank 1	l	1,8	5,0	5,0	11,8	11,8	5,5	5,5	6	1,8	1,8	208
Oil contents tank 2	l	1,5	1,2	1,2	2,1	2,1	1,2	1,2	1,3	2,1	2,1	
Weight	kg	320	195	195	387	387	220	240	273	340	340	350
max. lowering speed at nominated load	m/s	150										
max. sound intensity	db(A)	<83										

5 Transport

During transport it is to be observed that in the horizontal position of the Lift the control instruments are to show upwards, as otherwise oil may be lost. (see also red label at pit lift)

Operating Instruction Mounting

6 Mounting

- Lifts running on rail carriage are adapted exactly to the width of your pit. Use the lift only in the pit made for.
- Equip pit bottom on both sides with angle profile all over its length. (e.g. 100x100x8 DIN 1028, UST 37-2)
- For reasons of safe working conditions separate lifting unit from rail carriage when installing the lift into the pit. Open hexagonal socket screws (1) and remove covering plates (2). Remove lifting unit through the gaps (3).

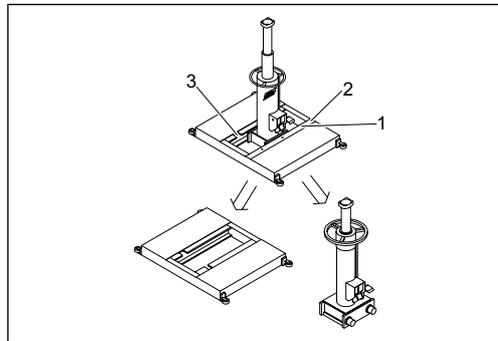


Fig. 3:

- Lower rail carriage and lifting unit into the pit with a suitable crane and mount lifting unit in rail carriage.

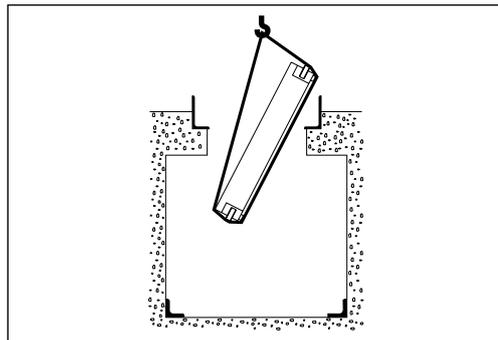


Fig. 4:

- Adjust the rollers (4) to the width of your pit. Take care for safe running of the lift all over the length of the pit.

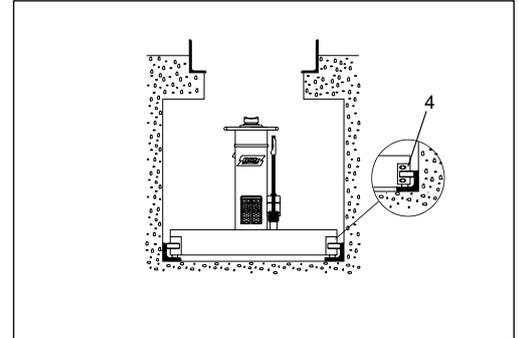


Fig. 5:

7 Initial Operation



Warning

The pit lift must be examined by an expert prior to first operation for proper installation in the pit, completeness and function. The result is to be entered into an examination book. (These books are available from the manufacturer)

7.1 Prior to starting operation

- Compressed air supply must only be done via a service unit with water separator, oiler and pressure reducer installed directly in the pit. The unit has to be set to 13 bar. For the oiler must be used only non resinous hydraulic oil like HLP22.
- Check oil level
- De-air hydraulic

8 Handling and Operation



Warning

When operating the pit lift you will have to observe all instructions from section „safety“ and the instructions for the valid accident prevention regulations.

- The pit lift must only be operated by specially trained personal.
- Pit lifts should only be put into movement when no persons are endangered.
- The movement range of the pit lift must be kept free and no persons should stay in the moving region.
- The maximal allowable capacity of the pit lift must not be exceeded.
- Standing on the pit lift, being lifted by it and mounting of load is not allowed.
- The lift must only be loaded centrally, lift the vehicle, look for safe harbouring of it and only then can the vehicle be lifted to the desired height.
- Lifting and lowering movements must be carried out evenly. While in motion observe the load.
- Lifted load must be secured by supporting bridges or tripods.

8.1 Load lifting

For load lifting the car wheel should be able to afterrun. (open break and put gear into neutral)

- Button “Quick Lift“ (1) to be pressed until carrying plate has reached the load carrying point.
- Load carrying device to be lead to even points meant for load lifting by car manufacturers.
- Button “Pneumatic Motor“ (2) to be pressed until vehicle is slightly lifted.
- Ensure safe harbouring of vehicle.
- Button “Pneumatic Motor“ (2) to be pressed until the load has reached the desired height.
- Secure vehicle against rolling off (drag shoe) and use supporting bridge.



For exact adjustment of desired height and in case of insufficient air supply pumping can be done by the foot hydraulic pump (3).

8.2 Lowering of load



Lowering motion to be carried out slowly and evenly. Observe the load during Motion.

- ➔ Remove roll-off-security measure (drag shoe)
- ➔ Lift vehicle slightly and remove supporting bridges.
- ➔ For lowering the load move lever (4) to the front and turn slowly to the right.



The lowering speed will be regulated steplessly by the turning movement.

- ➔ Return lever (4) into rest position.

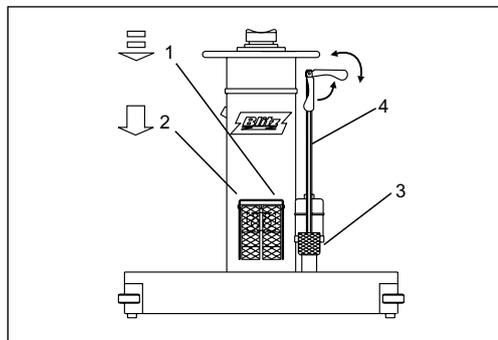


Fig. 6:

Load Carrying Devices

For safe lifting of vehicles and vehicle parts by means of the pit lift various load carrying devices are available, such as carrying plates, axle traverses, gear-box plates, special pick-up device

Supporting Bridges

Lifted vehicles have to be secured by means of supporting bridges or trestles. Supporting bridges are always manufactured according to pit measurements. Their safe support must be granted over the whole length of pit.



Informations for use

- The allowable capacity of the load carrying device must not be exceeded.
- Irrespective of the load carrying device the load-centre-point always has to be exactly over the pit lift.
- Use only load carrying devices with correct diameter of pin.
- Do not stack extension pieces.
- Vehicle parts must only be transported on the pit lift if it is completely lowered and if parts are secured with tapes or chains prior to being moved.

For further information concerning the complete program for load carrying and load supporting devices please approach the manufacturers.

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Operating Instruction

Troubles/Reasons/Remedies

9 Troubles/Reasons/Remedies

Piston rod does not move up completely.

Reason	Remedy
Insufficient oil in tank.	<ul style="list-style-type: none"> • Refill oil up to recommended quantity. (see oil change in section "Maintenance and repair")

Piston rod does not move up or descends under load.

Reason	Remedy
Ball valves untight or lip ring damaged.	<ul style="list-style-type: none"> • Ask for service people!

Pit lift loses oil at the control.

Reason	Remedy
Condensate in hydraulic oil.	<ul style="list-style-type: none"> • Check oil level, if required drain condensate (see section "Maintenance and repair") .
Piston gasket untight	<ul style="list-style-type: none"> • Ask for service people!

Loosing oil at the piston.

Reason	Remedy
Piston damaged and consequently seal damaged.	<ul style="list-style-type: none"> • Ask for service people!

Push button blocks

Reason	Remedy
Contamination/damaged in the control.	<ul style="list-style-type: none"> • Exchange control (see section "Maintenance and repair")



Operating Instruction

Troubles/Reasons/Remedies

Permanent exit of air at control.

Reason	Remedy
Contamination in control/ seal damaged	<ul style="list-style-type: none">• Exchange control (see section "Maintenance and repair").

Operating Instruction

Maintenance and repair

10 Maintenance and repair



Warning

- Maintenance and repair works must only be carried out by specialists at unloaded, pressureless lift.
 - After finishing maintenance and repairs loose screw connections are to be tightened properly.
 - Care for safe and environment-friendly disposal of operating and auxiliary process materials (hydraulic oil) as well as exchanged parts.
 - The lifting devices are to be kept in proper condition and prior to its use are to be checked for safety to the personal and the vehicles.
 - Prior to all maintenance and repair works disconnect the pit lift from the air supply!
 - After having finished work at the hydraulic system it must by all means be de-aired.
 - After all Maintenance and repair works test the pit lift and enter the result into the examination book.
-

10.1 Maintenance works

General

- The ram and the pin of the load carrying device must be kept free from sand and dirt.
- While working with adhesive under bottom agents or with lacquer the ram must be protected.
- The pit lift should not be cleaned with high pressure or steam cleaners.
- For cleaning the pit lift no aggressive cleaning agents should be used.

Time-fixed works

Weekly

- Service-unit of compressed air-line to be checked and serviced.
- The pin of load carrying devices as well as the hole of the pit lift should be cleaned and sprayed with a rust protecting oil.

Quarterly

- Check oil level
- the pit lift rolls should be creased (5)

Yearly

- Oil-change

10.2 Description of Maintenance works

- De-Airing of hydraulic system
- Footpump (3) to be operated 5 to 10 times with simultane operation of the lowering valve (4).

Oil level control

Prior to oil level control

- Disconnect the pit lift from the pressure line.



2 oil levels will have to be controlled.

Operating Instruction

Maintenance and repair

Oil level 1 (Container for load stroke)

- lifting ram to be descended completely.
- Remove oil bar (1) by unscrewing and check oil level.



You will have to change oil contents from two different oil containers!
(Not for 3-stage telescopic lift)

Oil level 2 (container for descending)

(Not for 3-stage telescopic lift)

- lifting ram to be ascended completely.
- Oil bar (2) to be unscrewed and oil level to be checked.

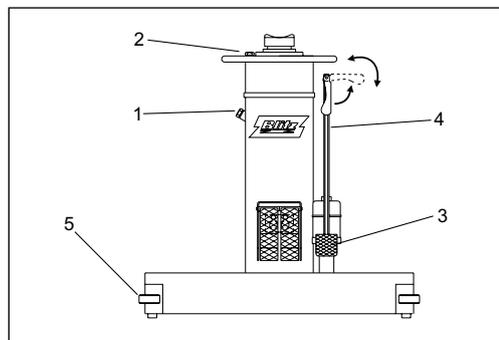


Fig. 7:

Oil change

BLITZ Pit lifts are equipped with 2 hydraulic drives. The lower one actuates the load lifting. The upper one supports the return action and overflows with every lifting- and lowering motion the cylinder with oil. Thus an optimal rust protection over the complete cylinder surface is reached.

For oil change you will require:

- Oil tray
- Hydraulic oil, class HLP, viscosity ISO-VG 10, 22 or 32. (e.g., HLP 10). Quantity of oil see technical data.
- 4 seal rings (spare part catalogue items 28, 315, 337 and 379)

Before changing oil

- disconnect pit lift from air supply.
- In case of units with rail carriage the lifting unit has to be separated from the carriage



Warning

Drain oil into a suitable container and care for proper disposal.

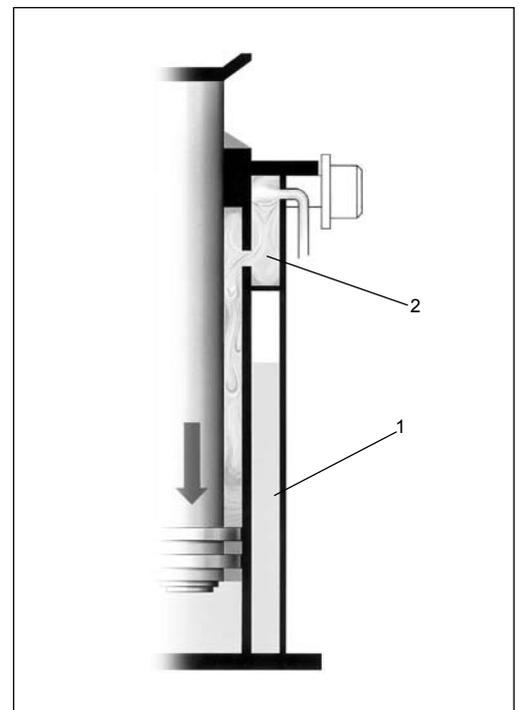


Fig. 8:

Oil container 1 (container for load stroke)

- descend ram completely.
- oil drain screw (4) to be taken out and oil to be drained.
- oil drain screw (4) with seal ring to be inserted and fixed tightly.
- Oil bar (3) to be turned out.
- refill oil up to recommended level.
- Oil bar (3) with seal ring to be turned in and fixed tightly.

Oil container 2 (Descending)

(Not for 3-stage telescopic lift)

- ascend ram completely
- turn out locking screw (2) and drain oil.
- Locking screw (2) with seal to be remounted and tightly fixed.
- turn out oil bar (1)
- refill oil up to recommended level.
- Oil bar (1) with seal ring to be turned in and fixed tightly.

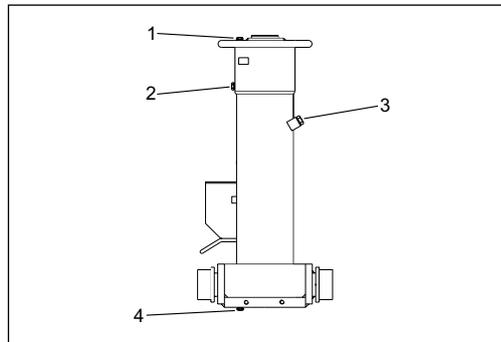


Fig. 9:

11 Repair works

11.1 Exchange complete control

- Disconnect pit lift from air supply (1).
- Safety ring (2) to be loosened and axle (4) to be pulled out.
- Both buttons (6) to be removed.
- hexagonal socket screws (5) to be unscrewed and turned out.
- control (7) to be removed by pulling towards operator.
- O-ring (3) to be replaced.
- New control to be mounted and to be fixed by hexagonal socket screw (5).
- Both buttons (6) and axle (4) to be replaced and to be secured by spring ring.
- connect air supply (1).

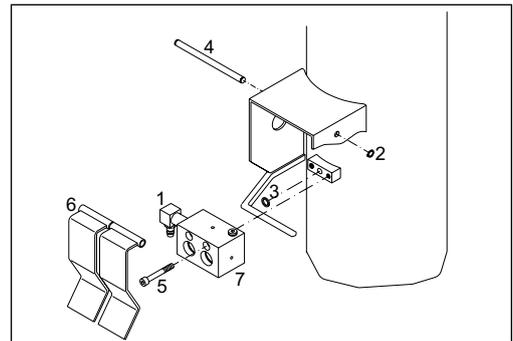


Fig. 10:

11.2 Complete hydraulic pump (Pump block) to be exchanged

- disconnect pit lift from air supply and drain oil (see oil-change).
- loosen compressed air connection (15).
- untighten screws (12) and turn them out.
- hydraulic pump (11) to be removed towards operator.
- replace O-ring (13).
- remove sieve (14), clean and replace.
- mount new pump block and fix it with screws (12).
- reconnect air supply (15).
- refill oil (see oilchange).

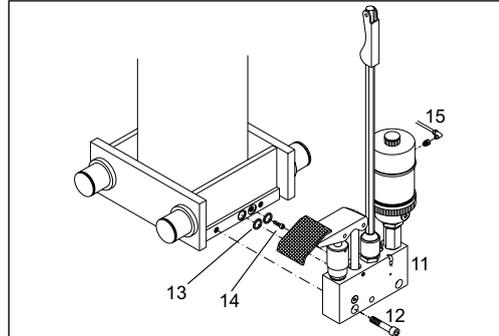


Fig. 11:

12 EC Declaration of Conformity

In the meaning of the EEC Machinery Directive 98/37 EC, Annex II A for installed machines.

This certification applies to the Blitz product floor-running pit lift (Type and Serial No. see at front cover)

The floor-running pit lift was constructed and manufactured in compliance with the regulations of the EC Guidelines.

BlitzRotary GmbH
Hüfinger Straße 55
D-78199 Bräunlingen

The following harmonised standards were applied:

- 37/23 EWG
- 89/336 EWG
- EN 1493
- EN 60204.1

A complete technical documentation is available. The operating instructions that belong to the floor-running pit lift are on file.

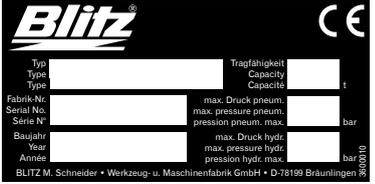
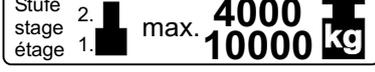
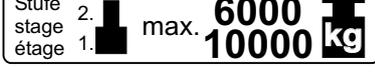
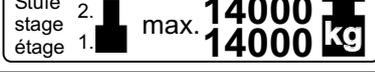
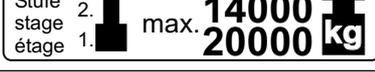
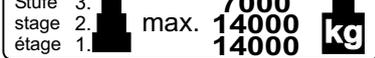
Bräunlingen, 07.06.2007

A handwritten signature in black ink, appearing to be 'C. Rohde'.

C. Rohde, Management

13 Appendix

13.1 Adhesive notices

Order No.	
3600011	
3303922	
3304922	
3305922	
3680922	
3306922	
3626922	
3304922	
3312922	
3305922	
3306922	
3748922	

Order No.																																			
708695	<p>Achtung!</p> <p>Um Ölverlust und Schäden am Heber zu vermeiden, müssen bei Transport und Lagerung Bedienelemente nach oben weisen.</p>	<p>Attention!</p> <p>In order to avoid loss of oil and damage of the lift, all operating elements must be in upright position during transport and storage.</p>	<p>Attention!</p> <p>Pour éviter perte d'huile et dommages au vérin, tous les éléments d'opération doivent montrer en direction haute pendant le transport et le stockage.</p>																																
860930	<p>Wichtig!</p> <ul style="list-style-type: none"> Kondensat in der Druckluftleitung zerstört den Heber Installieren Sie deshalb vor dem Heber einen Wasserabscheider Warten Sie diesen regelmäßig 	<p>Important!</p> <ul style="list-style-type: none"> Condensate in the air line destroys the lift Therefore a water separator should be installed before the lift This must be serviced regularly 	<p>Important!</p> <ul style="list-style-type: none"> Condensé dans la ligne d'air détruit le vérin A cause de ça un séparateur d'eau doit être installé avant le vérin Il faut le servir régulièrement 																																
3240923	<p>Achtung!</p> <p>Heber funktioniert nur, wenn vor Inbetriebnahme Verschlusschraube gegen beiliegenden Entlüftungsstopfen getauscht wird.</p>	<p>Attention!</p>  <p>Lift only works when prior to initial use the locking screw is replaced by the enclosed deairing plug.</p>	<p>Attention!</p> <p>Le vérin fonctionne seulement si avant la première mise en marche la vis de fermeture est remplacée par le bouchon de dégagement d'air.</p>																																
3320923	<p>Achtung!</p> <p>Überwurfmutter entfernen und Luftleitung anschließen. Andernfalls keine Funktion des Hebers.</p>	<p>Attention!</p>  <p>Remove screwed cap and connect with air line. Otherwise the lift will not function.</p>	<p>Attention!</p> <p>Enlever écrou à chapeau et connecter au ligne d'air. Autrement pas de fonction de vérin.</p>																																
3600.920	<p>Das Besteigen des Grubenhebers ist verboten! Das Mitfahren auf dem Grubenheber ist verboten!</p> <p>Betriebsanleitung</p> <ul style="list-style-type: none"> Unbefugten Personen ist das Bedienen des Grubenhebers untersagt! Bedienung nur durch entsprechend unterrichtetes Personal. Die gesetzlichen Unfallverhütungsvorschriften sind zu beachten! Grubenheber nur zentrisch belasten. Fahrzeug anheben, auf sichere Fahrgaugaufnahme prüfen, dann erst auf die gewünschte Höhe anheben. Fahrzeug gegen Abrollen sichern! Grubenheber nur in Bewegung setzen, wenn keine Personengefährdung besteht! Hub- und Senkbewegungen gleichmäßig vornehmen, während der Bewegung aufgenommene Last beobachten, Bewegungsbereich des Grubenhebers freihalten! Der Aufenthalt von Personen im Bewegungsbereich des Grubenhebers ist untersagt! Höchstzulässige Tragfähigkeit nicht überschreiten! Das Besteigen des Grubenhebers, das Mitfahren darauf und das Besteigen der Last sind untersagt! Es ist zu empfehlen, die angehebene Last mit Absatzböcken oder Absatzböcken zu sichern! Die ausführliche Betriebsanleitung ist zu beachten! Im Störfall nicht selbstständig am Grubenheber arbeiten. Heber stilllegen, gegen unbefugte Inbetriebnahme sichern und Kundendienst verständigen. <p>Bedienung und Wartung</p> <table border="1" data-bbox="683 1682 1090 1984"> <thead> <tr> <th>Gültig für Typ</th> <th>GH GNL</th> <th>GH(S/L) GHUS(L) GHUST</th> <th>GHUSP GHUSLP GHUSTP GHUSFT</th> </tr> </thead> <tbody> <tr> <td>Heben</td> <td>Pumpenhebel einstecken und pumpen</td> <td>Ohne Last: Taste „Schnellhub“ drücken Mit Last: Von Hand pumpen</td> <td>Ohne Last: Taste „Schnellhub“ drücken Mit Last: Taste „Luftmotor“ drücken Feinhub: Von Hand pumpen</td> </tr> <tr> <td>Senken</td> <td colspan="3">Ohne Last: Hebel nach rechts bis Anschlag schwenken Mit Last: Hebel kurz nach rechts antippen</td> </tr> <tr> <td>Abschmieren</td> <td colspan="3">Wichtiglich: Laufrollen der Hubeinheit ölen Jährlich: Wälzlager der Fahrgestellrollen ausbauen, reinigen und fetten</td> </tr> <tr> <td>Kondensat ablassen</td> <td>-</td> <td colspan="2">Bei täglicher Benutzung des Hebers, monatlich an der Glasblasechraube</td> </tr> <tr> <td>Ölstand</td> <td colspan="3">Ölstand 1: Kolbenstange vollständig eingefahren, Ölstand auf Höhe Einfüllöffnung Ölstand 2: Kolbenstange vollständig ausgefahren, Ölstand am Maßstab in der Tragplatte kontrollieren</td> </tr> <tr> <td>Ölwechsel</td> <td colspan="3">Jährlich, Ölorten (z.B. HLP 20/HLP 32) und Ölmenigen siehe ausführliche Bedienungsanleitung</td> </tr> <tr> <td>Druckluftversorgung</td> <td>-</td> <td colspan="2">Die Funktion des Hebers ist nur mit kondensatfreier Druckluft gewährleistet. Dazu sind Trockner und Wartungseinheiten regelmäßig zu kontrollieren.</td> </tr> </tbody> </table> <p>Bestell-Nr.: 3600.920 Stand: 02/00</p>			Gültig für Typ	GH GNL	GH(S/L) GHUS(L) GHUST	GHUSP GHUSLP GHUSTP GHUSFT	Heben	Pumpenhebel einstecken und pumpen	Ohne Last: Taste „Schnellhub“ drücken Mit Last: Von Hand pumpen	Ohne Last: Taste „Schnellhub“ drücken Mit Last: Taste „Luftmotor“ drücken Feinhub: Von Hand pumpen	Senken	Ohne Last: Hebel nach rechts bis Anschlag schwenken Mit Last: Hebel kurz nach rechts antippen			Abschmieren	Wichtiglich: Laufrollen der Hubeinheit ölen Jährlich: Wälzlager der Fahrgestellrollen ausbauen, reinigen und fetten			Kondensat ablassen	-	Bei täglicher Benutzung des Hebers, monatlich an der Glasblasechraube		Ölstand	Ölstand 1: Kolbenstange vollständig eingefahren, Ölstand auf Höhe Einfüllöffnung Ölstand 2: Kolbenstange vollständig ausgefahren, Ölstand am Maßstab in der Tragplatte kontrollieren			Ölwechsel	Jährlich, Ölorten (z.B. HLP 20/HLP 32) und Ölmenigen siehe ausführliche Bedienungsanleitung			Druckluftversorgung	-	Die Funktion des Hebers ist nur mit kondensatfreier Druckluft gewährleistet. Dazu sind Trockner und Wartungseinheiten regelmäßig zu kontrollieren.	
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