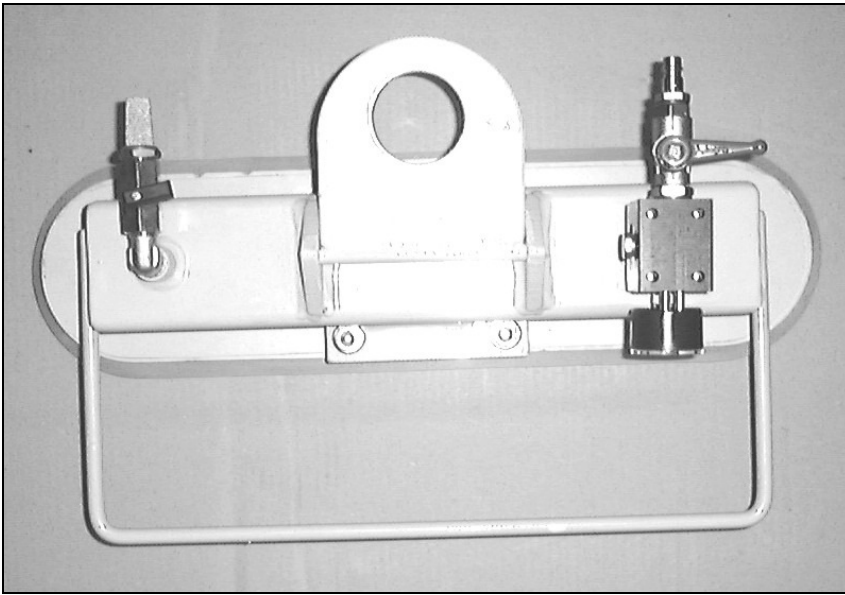
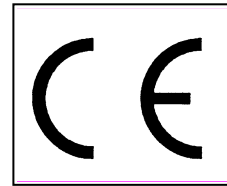


## Vacuum lifter T 300 T600



**Picture 1a**  
Overall view of the Vacuum lifter T 300

Description	Vacuum lifter
Type	T 300 T600
Machine's/ Serial no.	
Manufacturing year	2003



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## 1 Contact

For any questions and orders please contact the WEHA-Ludwig Werwein GmbH or directly the manufacturer:

<p><b>In Germany</b>  <b>WEHA-Ludwig Werwein GmbH</b>          Postfach 13 55          86331 Königsbrunn/ Augsburg          Wikingerstr. 15          86343 Königsbrunn/ Augsburg          Telefon: +49 (0) 8231 / 60 07-0          Telefax: +49 (0) 8231 / 60 07-148          E-Mail: info@weha.com</p>	<p><b>In Austria</b>  <b>WEHA Steinbearbeitungsmaschinenvertriebsgesellschaft m. b. H.</b>          Lange Gasse 17          A-1080 Wien          Telefon: +49 (0) 1 / 40 39 340          Telefax: +49 (0) 1 / 40 88 762          E-Mail: office.weha@aon.at</p>	<p>Our website :    <a href="http://www.weha.com">http://www.weha.com</a>    <b>E-Mail: info@weha.com</b></p>
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## 2 Conformity declaration "CE"

Conformity declaration EG EWG No. 89/392/EWG (EN 292)			
Manufacturer: DREMA GmbH Wikingerstraße 15 86 343 Königsbrunn Tel.: 08231 / 91 69 - 22 Fax: 08231 / 91 69 - 24	Machine type: Vacuum lifter T Application: To lift stone slabs Machine No.:		
Signature:			
Erich Eberle			
Hereby we certify that the above-mentioned machine corresponds to the requirements of the above guideline.			

## 3 Symbols and warning instructions

The following explanations of the symbols occurring on the machine or in the operating instructions should help you to understand them.

### 3.1 Warning instructions on the Vacuum lifter T

The following warning symbols can occur on the machine:



This symbol points out the availability of the operating instructions and warns the operator to read these instructions before the installation or the commissioning of the machine.



This warning sign occurring on the machine points out to the operator the existence of electrical current, whose strong enough to cause an electric shock to the operator by contact with the danger point. In such a place health or life are at risk.



This warning sign warns the operator to wear ear-protection and goggles.

## 3.2 Symbols in the operating instructions

---

The following symbols can occur in the operating instructions:



This exclamation mark, framed in an equilateral triangle, draws attention to a very important information and recommends the operator to read and follow it with particular attention.



Obligation to recycle waste materials into the production process to help safeguard the natural resources and save the environment.



Marking of switches, articles, etc. in the pictures of this operating manual. The first number begins with the letter A, for the marking (e.g. article D) and the second number is the current numbering of the picture (e.g. picture 6.2) within a section e.g. 6.1 Inspection. The marking always refers to the accompanying or following description; otherwise the description refers to a marking in another picture.

## 4 Regulations for the use of the Vacuum lifter T

---

Please pay attention to the information about the use of the machine.



**Attention: danger of injury!**  
**The inappropriate use leads to personal injuries and damage of materials!**



The machine is especially conceived for one or several application fields.  
The following chapters explain the possible applications and the dangers during the use.

### 4.1 Field of application of the Vacuum lifter T

---

You've bought a quality product of WEHA-Ludwig Werwein GmbH.

The Vacuum lifter T is a device to facilitate the movement of stone slabs.

Please note the following characteristics:

- Easy and fast movement of stone slabs, without electricity
- Robust overall structure construction
- High lifting capacity of one stone slab

### 4.2 Inappropriate application

---

The Vacuum lifter T can be exclusively used to move stone slabs.

- Use the Vacuum lifter T for the intended purposes and do without means, which can damage the metal or other parts!
- The Vacuum lifter T is completely and particularly appropriate for the indicated ranges of application.
- Do not place any object between the stone slab and the sealing lip of the Vacuum lifters T.
- **Never walk under moving load!**

## 4.3 Safety regulations

---

- Please read thoroughly these operating instructions before using the Vacuum lifter T!
- Keep the operating instructions carefully in the proximity of the Vacuum lifter T, for a future reference when in doubt.
- Unconventional changes or installing of additional devices will lead to the cancellation of any liability by the dealer or manufacturer!
- Remove all articles from the work area, which can be a possible source of danger!
- Only authorized persons may use the Vacuum lifter T. Each user must have read and understood this documentation!
- Before each use check the basic parts and welding seams for damages! In case of defects don't use the Vacuum lifter T, the use by unauthorized persons must be prevented by suitable measures!
- Check the sealing lip for damage and in case of damage take out of operation, by making the machine unusable making sure that there's no danger to other people!
- Make sure that the ground in the work area is solid and is not liable to subsidence!
- Make sure that the area, on which you put the stone slab, has enough load capacity!
- Make sure that the sealing lip of the vacuum lifters T is completely in contact with the stone slab!
- Make sure that the stone slab is dry and dust-free before coming in contact with the vacuum lifter T. The surface of the stone slab must be smooth ground in the contact surface of the vacuum lifters T. The face of the stone slab must be an even plane!
- Make sure that the Vacuum lifter T is placed in the middle of the stone slab. Consider the possible subsidence too!
- Avoid excessive swinging or vibration of the moving load!
- The max. admissible load is to be found on the machine identification plate or in the technical data on chapter 4.6.
- Only one stone slab at a time may be lifted and transported by means of the Vacuum lifter T!
- Keep the working area clean and provide sufficient lighting!
- Never walk under moving load!
- While handling the vacuum lifter T always wear the appropriate protective clothing, in accordance with the valid rules for the prevention of accidents!
- This includes:
  - Working gloves and working clothes in accordance with the valid regulations!
  - Safety shoes in accordance with the valid regulations!
  - Safety helmet in accordance with the valid regulations!
- Use only suitable work pieces. Do not lift slabs liable to crack or break during the work.
- Check to ensure during use that nobody is in the proximity of the equipment, in order to avoid danger to other personnel!
- Check to see whether all the parts are correctly installed!
- In case of damage or malfunction of the machine, please contact the dealer or the manufacturer immediately!
- Protect the machine against the weather, e.g. rain, sun, humidity and etc.!
- In case of damage or other reasons which prevent the use of the machine in the long-term, cease its operation, by making the machine unusable thus making sure that there's no danger to other people!
- If disposing of the machine or parts thereof, dismantle and separate the different materials which can then be disposed of to be recycled!



## 4.4 Safety device of the Vacuum lifter T

The Vacuum lifter T has been manufactured according to the general regulations for mechanical engineering.

Safety features include:

- A vacuum gauge for constant vacuum control during the lifting process.

## 4.5 Machine identification plate

The identification plate informs about the origin, identity as well as year of construction and, if necessary, about the maximum carrying capacity.

By the supply please compare the identification plate with the data on the first side of the operating instructions. If the data differ from each other, please contact immediately the dealer or the manufacturer.

Lieferer:	D-86343 Königsbrunn	 
Bezeichnung:		
Typ:		
Fabrik-Nr.		
Baujahr:		
max. Tragfk.		

## 4.6 Technical and structural data of the Vacuum lifter T

Total height [cm]	19 cm	Max. Load capacity [kg]	300 kg
Total width [cm]	55 cm	Net weight [kg]	14 kg
Total length [cm]	33 cm	Suction area [cm x cm]	54 cm x 15 cm

## 4.7 Supply and connections

Battery charger - Electrical supply	230V / 50Hz
Compressed air supply (optional)	Filtered and lubricated with pressure of max. 8,0 bar

## 5 Assembly

---

Please read carefully the information in the chapter "Assembly" and follow it precisely. The manufacturer or the company WEHA-Ludwig Werwein GmbH will not be liable for any damage due to incorrect assembly.

On receipt, check the supplied commodity for any damage during transportation and packing. Advise the manufacturer/agent immediately about any damage!



**The dealer/manufacturer are not liable  
for any defects caused by incorrect assembly and incorrect application!**



**Please follow precisely the safety regulations in chapter 4.3 !**

### 5.1 Removing the transportation packaging

---

The vacuum lifter T is usually delivered in cardboard packaging.

Before unpacking please compare the attached delivery note with the supplied articles!

#### **Remove the transportation packing:**

- Release the adhesive strips and/or the strapping belts and unpack the contents carefully!
- Be careful by unpacking the vacuum lifter, in order to prevent it from damage!
- Heavy contact of the vacuum lifter on sharp edges can damage the surface protection and/or parts of the assembly!
- Dispose of the packing wastes for recycling according to the local guidelines!

### 5.2 Scope of supply

---

Before beginning the assembly, please check precisely to see whether all necessary parts are available. If the scope of the supply is not complete contact the dealer or the manufacturer immediately.

Scope of supply consists of:

- 1 x Vacuum lifter T with battery charger
- 1 x Operating instructions
- 1 x Remote-control device (optional)

### 5.3 Assembly instructions

---

The Vacuum lifter T is delivered already assembled. Assembly of the individual parts is thus not necessary.

## 6 Operating instructions of the Vacuum lifter T

The aim of this chapter is to inform you of the means of working. Consider the operating instructions in every detail, in order to be able to use the Vacuum lifter T optimally!

Take care that any sharp edged articles do not damage the protective layer of the metal parts!

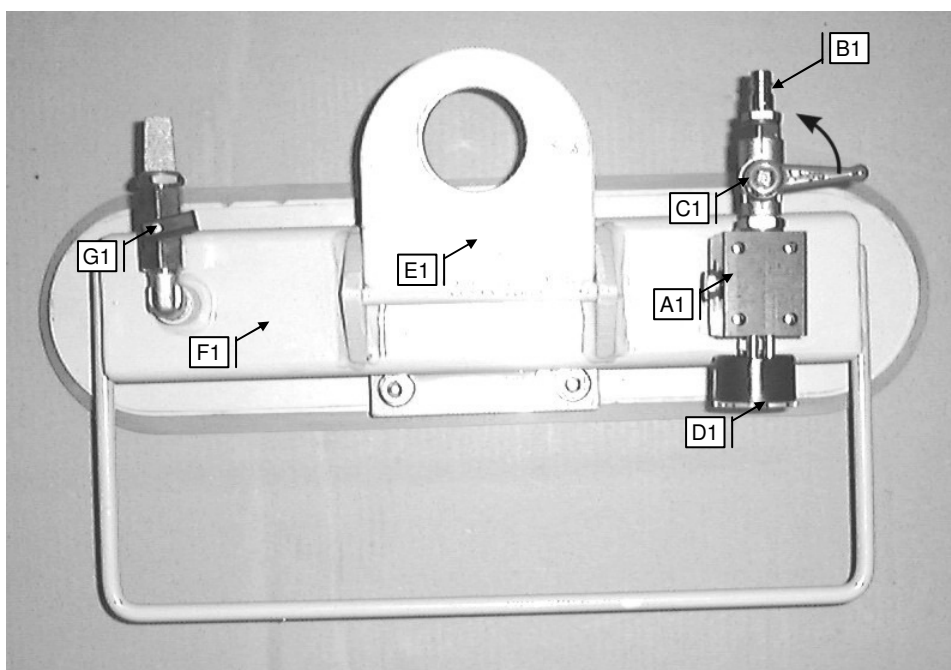


**The dealer and/or manufacturer is not liable for any defects caused by incorrect assembly!**



**Please follow precisely the safety regulations in chapter 4.3 !**

- Place the stone slab so that it can be transported by means of the vacuum lifter T. The suction area of the vacuum lifter T must be completely in contact with the stone. Please find the technical data about the contact area of the vacuum lifter in chapter 4.6
- The Vacuum lifter T must be placed in the centre of the stone slab. Now find the technical data concerning the contact area of your Vacuum lifter in the chapter 4.6
- Make sure that the stone slab placed in the contact area of the Vacuum lifter T is dust-free and dry. The stone slab's surface must be plane ground in the contact area of the Vacuum lifter T and moreover the stone slab must have an even plane!
- Now place the Vacuum lifter T in the middle of the stone slab.
- Make sure that the sealing lip of the Vacuum lifter T lays completely and correct on the stone slab. Make sure that it doesn't twist.



**Picture 6.2** – Vacuum lifter T

- Before using the pneumatic injector valve [A1], first of all connect the compressed air supply to the compressed-air nipple [B1]. Max. air pressure is 10,0 bar.
- The vacuum will be produced, by opening the hand valve [C1] in arrow's direction.
- The momentary vacuum appears on the vacuum gauge [D1].
- When the vacuum of -0,8 bar appears on the vacuum gauge [D1] close anticlockwise the hand valve [C1]. The evacuation takes approximately 1 minute, if the vacuum safety tank had not already emptied.
- Make sure that there's no vacuum loss. It's important that the indicator on the vacuum gauge doesn't move [E2]. If losing vacuum, the stone slab can't be transported. The sealing lip and the contact area must be checked and the vacuum has to be produced again. If the condition occurs again have the lifter checked by a technician.
- Now connect the Vacuum lifter T by means of the eye [E1] to the lifting equipment.
- Make sure that the lifting tackle and the lifting equipment have the necessary load capacity to carry and transport the gross lifting weight. Don't exceed the admissible load capacity of your lifting equipment (see the technical data in chapter 4.6) .
- Lift the vacuum lifter T by means of the lifting equipment until the stone slab is hanging.
- Make sure that the stone slab is hanging horizontally if it's possible. In case of inclination the stone slab must be appropriately placed, otherwise it may come loose from the Vacuum lifter T!



- Now you can lift the stone slab to the travelling height.
- Make sure that whilst transporting there are no vibrations and that the stone slab does not swing.



**Attention danger! Never walk under moving load!**  
**If vacuum loos during the transport, you have to take the stone slab off immediately!**



- Make sure that the area, on which the stone slab is placed, has enough load capacity!
- When the stone slab is in position and fastened, push the blue ring of the hand slide valve [A2] to the left. The vacuum chamber will be ventilated and the vacuum safety tank [C2] will retain the vacuum.
- Now you can remove the vacuum lifter T from the stone slab.

## 7 Maintenance



The operator of the vacuum lifter T must be instructed in the following activities by a person with the appropriate training!



The manufacturer is not liable for any damage due to neglect of these instructions!

Please follow precisely the safety regulations in chapter 4.3!

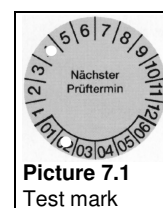
### 7.1 Maintenance

The Vacuum lifter T does not require regular maintenance.

- The sealing lip of your Vacuum lifter must be cleaned monthly and checked for damage.

### 7.2 Inspection

- The Vacuum lifter T is a load carrying attachment! The user of the Vacuum lifter T must make sure that an expert checks it at least once a year! (§ 40, Abs. 1, VBG 9a)
- The next test for the Vacuum lifter T is shown on the yellow mark „nächster Prüftermin“. (e. g. April 2003)
- Only the persons, who have the necessary knowledge and training may implement repairs and welds (poisoning danger!)
- You can have your vacuum lifter T checked by an expert at the manufacturers, ask us!



Please follow precisely the safety regulations in chapter 3.3!

This inspection has to be executed at least once a year.

- Check the vacuum lifter T once a year for rusty parts, in particular all the welded seams.
- Remove the rust and protect these parts by means of an appropriate anti-corrosive agent, e.g. zinc spray.
- Check the rubber sealing lip for damages and if necessary have it changed by the dealer or the manufacturer.



Only the persons, who have the necessary knowledge and training may implement repairs and welds (poisoning danger!)



## 8 Parts list

In the following chapter you find the part list for the vacuum lifter T. Please consider by orders of spare parts that a smooth completion can take place only by full information about the data specified into the part list. Thus always indicate by an order the quantity, the piece's description, the article number and if it's necessary the abbreviation.



**Only the manufacturer may implement repairs!**



**Unconventional repairing or use of non-manufacturers parts will lead to the cancellation of any liability and right to claim under guarantee by the dealer or manufacturer.**

Pos.	Quantity	Description	Abbreviation	Werkpc.
1	1	Suction plate for T 300 vulcanized	Art. No. VD080043	
2	1	Foot	ISO 6431 Ø 63	
3	1	Vacuum safety tank		
4	1	Eye		
5	1	Screw M16 x 120	DIN 933	
6	1	Nut M16		
7	1	Sound absorber	3 ST R 3/8	
8	1	Vacuum meter	Art. No. 8020818	
9	1	Vacuum gauge's screw connection	Mayer 12 PLR A3C	
10	1	Handle		
11	1	Halter bar right		
12	1	Halter bar left		
13	1	PG 11 C 18211 N21		
14	1	Quick coupling - Type 26 NW 7.2		
15	1	Plug nipple NW 7.2		
16	1	Pneumatic injector valve	Art. No. 8020800	

### Vacuum lifter T

Vacuum lifter T 300                      Art. No. 8010300