

**Stone Slabs Support Stand BRILO**



Picture 1 Overall View Type Magnum

|                    |                    |
|--------------------|--------------------|
| Description        | Slab Support Stand |
| Type               | Brilo              |
| Article Number     |                    |
| Machine/Serial No. |                    |
| Manufacturing Year |                    |
| Total width        | 3.000 mm           |
| Total depth        | Adjustable         |
| Net weight         | Round 250 kg       |

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## 1 Contact

For any further questions and/or individual orders, please contact Weha-Ludwig Werwein GmbH or the manufacturer directly:

|   |   |  |
|---|---|--|
| <p><b>In Deutschland</b><br/> <b>WEHA-Ludwig Werwein GmbH</b><br/>         Post Box 13 55<br/>         86331 Königsbrunn / Augsburg<br/>         Wikingerstr. 15<br/>         86343 Königsbrunn / Augsburg<br/>         Telephone: +49 (0) 8231 / 60 07-0<br/>         Telefax: +49 (0) 8231 / 60 07-148<br/>         E-Mail: INFO@WEHA.COM</p> | <p><b>In Austria</b><br/> <b>WEHA Steinbearbeitungsmaschinenvertriebsgesellschaft m. b. H.</b><br/>         Lange Gasse 17<br/>         A-1080 Wien<br/>         Telephone: +43 (0) 1 / 40 39 340<br/>         Telefax: +43 (0) 1 / 40 88 762<br/>         E-Mail: OFFICE.WEHA@AON.AT</p> | <p>Visit us at our<br/>         Internet Website:<br/> <a href="http://WWW.WEHA.COM">http://WWW.WEHA.COM</a><br/> <br/> <b>E-Mail: INFO@WEHA.COM</b></p> |
|---|---|--|

## 2 "CE"- Conformity Declaration

|   |  |                 |   |
|---|--|-----------------|---|
| EC-Conformity Declaration<br>2006 / 42 / EG |  |                 |   |
| Supplier:                                   | WEHA Ludwig Werwein GmbH<br>Wikingerstr. 15<br>D – 86343 Königsbrunn<br>Telefon 0049 / (0) 8231 / 60 07 - 0<br>Telefax 0049 / (0) 8231 / 60 07 - 148   | Machine Type:   | Brilo   |
|   |  | Application:    | The Slab Stand is a device to facilitate stocking of stone slabs. |
|   |  | Machine number: |   |
| Signature:                                  |  <p style="text-align: center;"> <b>weha</b><br/> <b>LUDWIG WERWEIN GMBH</b><br/>         Wikingerstr. 15 · 86343 Königsbrunn<br/>         Postfach 13 55 · 86331 Königsbrunn<br/>         Tel. 0 82 31 / 60 07 - 0 · Fax 60 07 - 148       </p> |                 |   |
|   | Herr Nagy<br>We hereby certify that the above mentioned device corresponds to the requirements in accordance with the above guidelines.  |                 |   |

## 3 Explanation of the Symbols and Warning Instructions

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

### 1.1 3.1 Warning Instructions on the Slab Stands

The following warning symbols can appear on the machine respectively unit:



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



This warning symbol denotes the need of the operator to wear ear-protection and eye goggles.



This mandatory sign obligates the operator of the machine to use and wear safety shoes, protective gloves and protection helmet.

### 3.2 Symbols in the Operating Instructions

The following symbols can appear in the operation instructions and are defined accordingly:



This exclamation mark, framed in an equilateral triangle, draws the operator's attention to the fact that very important directions are available and the operator should read and follow the information with particular interest.



Obligation to recycle waste materials into the production process and to safeguard the natural resources and protect 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 use of the Slab Stands

Please pay particular attention to the information concerning the use of the machine.



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



This machine is especially conceived for one or several application fields.

The following Chapter explains the possible applications and the possible dangers.

### 4.1 Field of Application of the Slab Stands

You have purchased a quality product of WEHA-Ludwig Werwein GmbH

The Slab Stand is a helping device, to facilitate the easy storage in an upright position e.g. monument stones, and assist you in your work.

Please note the following special characteristics:

- All steel construction components are galvanized.
- Robust construction.
- 16 stable iron tubes to use as a bearing surface for the stone slabs.

### 4.2 Inappropriate Application

The slab stands can be used only to store stone slabs upright.

Use the slab stand for the intended purposes and avoid using any materials which can damage the metal or other parts of the device!

- The slab stand is complete and particularly appropriate for the indicated ranges of application.
- Do not store any slabs, which are too big, too small or too heavy as allowed.
- Fasten the slabs carefully before placement and Check to see whether the lifting device is ready and suitable for use.
- **Don't stay or walk under suspended load!**

### 4.3 Safety Regulations



1. **Please read thoroughly these operating instructions before using the Slab Stands!**
2. **Keep the operating instructions carefully in the proximity of the slab stand, for a future reference when in doubt.**
3. **Unconventional changes or installing of additional devices will lead to the cancellation of any liability by the dealer or manufacturer!**
4. **Remove all articles from the work area, which can be a possible source of danger!**
5. **Make sure that the ground for the slab stands is horizontal, stable and has enough load capacity!**
6. **Only authorized persons may use the slab stands. Each user must have read and understood this documentation!**
7. **Before each use check the basic parts and welding seams for damages! In case of defects don't use the slab stand; the use by unauthorized persons must be prevented by suitable measures!**
8. **Provide for a stable and anti-skid working ground!**
9. **Handle the Stone slabs carefully on the Slab stand.**
10. **Never walk or stay under suspended load!**
11. **Keep the working area clean and provide sufficient lighting!**
12. **While handling the slab stand 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!
- 13. Use only suitable work pieces. Do not lift slabs liable to crack or break during the work process.
- 14. Make sure that during use nobody is in the proximity of the equipment, in order to avoid danger to other personnel!
- 15. Check to see whether all the parts are correctly installed!
- 16. In case of damage or malfunction of the machine, please contact the dealer or the manufacturer immediately!
- 17. Protect the machine against the weather, e.g. rain, sun, humidity and etc.!
- 18. In case of irreparable 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!
- 19. 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 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:    | <b>weha</b> D-86343 Königsbrunn | <br> |
| Bezeichnung: |                                 |  |
| Typ:         |                                 |  |
| Fabrik-Nr.   |                                 |  |
| Baujahr:     |                                 |  |
| max. Tragfk. |                                 |  |

#### 4.5 Technical and Structural Data

##### 4.5.1 Slab Stand Brilo with Supporting Tubes 1,5 Meter

|                   |            |                            |                              |
|-------------------|------------|----------------------------|------------------------------|
| Total height [cm] | 160 cm     | Max. Bearing Capacity [kg] | See Chapter 5.1 Bearing Cap. |
| Total width [cm]  | 300 cm     | Net weight                 | 250 kg                       |
| Total depth [cm]  | adjustable | Height of Iron Tube        | 150 cm                       |

## 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.

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

#### 5.1 Scope of Delivery

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

The scope of supply consists of:

- 1 x Slab Stand consisting of:
- 4 x perforated rails each 1,5 mtr.
  - 16 x Iron Tubes Typ Brilo
  - 1 x Operation and Maintenance Instructions Manual

#### 5.2 Removing the Transportation Packaging

The slab stand 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 device, in order to prevent damages to the contents!
- Strong blows to the slab stand 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!

#### 5.3 Assembly Instructions

The slab stands has to be assembled.

Please read carefully the assembly instruction, in order to use the slab stand in the best way.

Pay attention that the protective coating of the metal parts will not be damaged by sharp edge articles!



**Any defects, caused by incorrect assembly and operation are not covered under the Warranty by the dealer respectively the manufacturer!!**



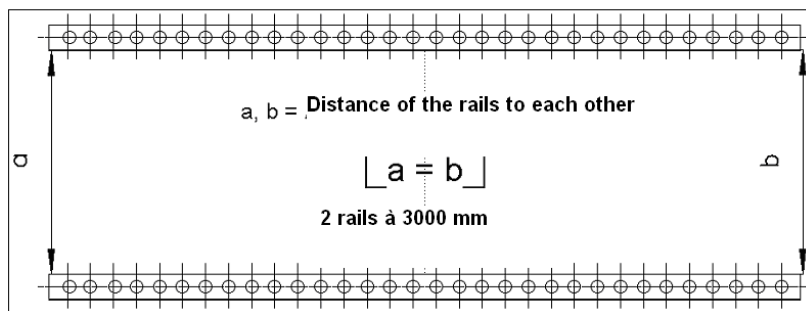
The easy assembly of the slab stands can be performed by means of any ordinary tools:

Features of the ground foundation:

- Make sure that the ground is absolutely horizontal and even, otherwise the risk of tilting and breakage can occur, caused by irregular charge!
- Place the slab stands on a firm ground.
- Make certain that these features are accomplished, by using a spirit-level or by shaking the slab stands.
- Make certain that the ground has adequate load capacity!
- Always adhere to the regulations for the prevention of accidents!

Mounting of the rails:

- While handling the slab stand 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 and Safety shoes in accordance with the valid regulations.
- Place the rails upright, parallel and with a safe distance from each other, directly on the ground (Picture. 4.1)
- The distance  $a = b$  must correspond to the slab width.
- The closer the top margins of the rails will be to the top edges of the stone slabs, there will be less risk of lateral tilting of the stone slabs.



**Picture 4.1** – Construction drawing of the perforated rails Example RR

To fasten the Iron tubes:

Place the Iron tubes into the holes, and pay attention to following points:

- Utilize and install the supplied Iron tubes uniformly onto the two rails (10 / 8 pipes each rails!)
- Distribute the Iron tubes on the rails, so that the tubes are parallel to each other. It means: If you put the iron tubes in the holes 1,4,7,10, .. of a rail, consequently you have to put the other pipes in the same holes (1,4,7,10...) of the other rail!
- Make sure that the tubes are completely inside the holes!
- Check to see whether all Iron tubes are fully-functional and have no deformations or splits.

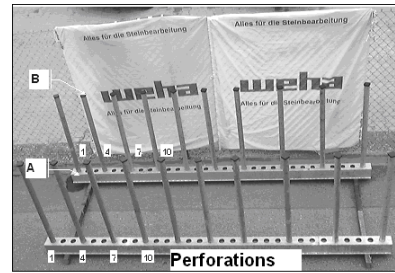
## 6 Operating Instructions for the Slab stands

- Load the Slab stands always starting from the middle and distributing the load over the whole length.
- Avoid loading the iron tubes only from one side! The bearing edges of the slab have always to be vertical with respect to the perforated rails!
- While loading avoid collisions and blows on the tubes! Release the slabs by means of a suitable lifting gear and lean the slabs carefully against the iron tubes!
- Use every delivered iron tube while using the Slab stand
- Anchor every perforated rails into the ground / Do not use if this is not anchored!
- Connect always two 1,5 mtr. perforated rail together. Do not use only one perforated rail only.



**Attention! Risk of tilting by irregular loading on the supporting tubes!**

**Attention! Avoid any crush or collision while loading and discharging the slabs!  
Danger of tilting and crushing!**



Picture 5.1 – Assembled Slab Stand Type RR

### 6.1 Carrying Capacity of the various Slab Stands

- Lean the slabs against the Iron tubes as steeply as possible and avoid overcharging the iron tubes. Pay attention to the following drawing concerning the minimal front tilt angle according to the total slab thickness (Picture 6)!

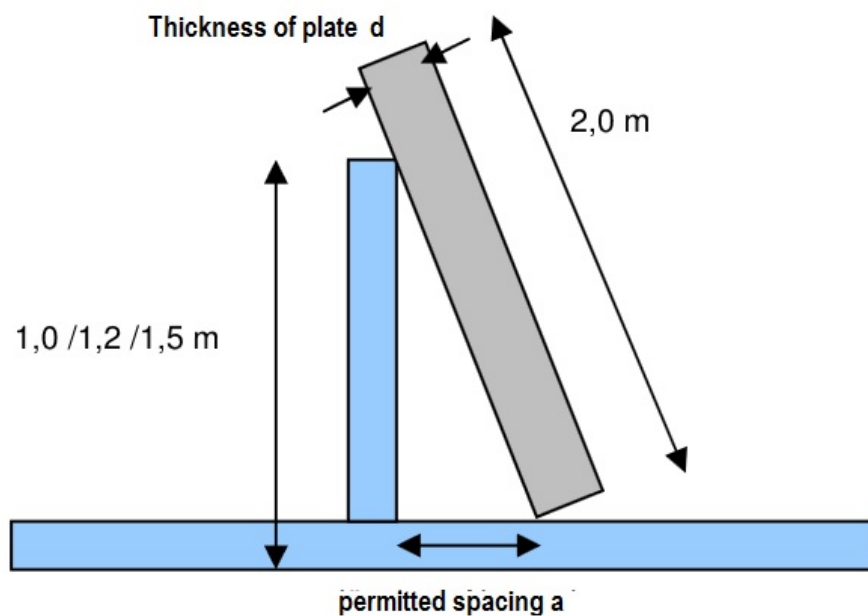


**Attention!**  
**Risk of tilting and crushing by overloading the iron tube, caused by reduced clearance angle or larger load!**



Picture 5.2 serves to clarify the following tables and diagram as well as the utilized terminology and serves as an example!

Picture 5.2 - Minimal clearance angle by admissible load.





Attention!

Picture 5.2 is only valid for Type QR with a supporting tube length of 1 m and a slab height of 2 meters



**BISON**

|                                  |    |    |    |    |    |
|----------------------------------|----|----|----|----|----|
| Max. total slab thickness d (cm) | 18 | 22 | 26 | 32 | 42 |
| permitted spacing a (cm)         | 14 | 12 | 10 | 8  | 6  |

**MAGNUM 1,2**

|                                  |      |      |      |      |     |
|----------------------------------|------|------|------|------|-----|
| Max. total slab thickness d (cm) | 12   | 16   | 22   | 44   | 76  |
| permitted spacing a (cm)         | 43,7 | 32,2 | 21,2 | 10,5 | 6,3 |

**MAGNUM 1,5**

|                                  |    |    |    |    |
|----------------------------------|----|----|----|----|
| Max. total slab thickness d (cm) | 34 | 40 | 48 | 60 |
| permitted spacing a (cm)         | 14 | 12 | 10 | 8  |

**RR 1,0**

|                                  |    |    |    |
|----------------------------------|----|----|----|
| Max. total slab thickness d (cm) | 9  | 17 | 29 |
| permitted spacing a (cm)         | 17 | 8  | 5  |

**RR 1,5**

|                                  |     |    |     |      |      |
|----------------------------------|-----|----|-----|------|------|
| Max. total slab thickness d (cm) | 4,5 | 6  | 8,9 | 17,7 | 29,4 |
| permitted spacing a (cm)         | 54  | 40 | 26  | 13,1 | 7,9  |



Attention!

Stated values of the Table and Diagram are only valid with a Slab Height of from 2 meters



Check to see whether all Iron tubes are fully functional and have no deformations or splits!



Attention!

**Risk of tilting or crushing by faulty support tubes!**



Attention!

**Any modifications of the Tubes or the Rails as well as the non observance of these operating instructions invalidate the guarantee and any liability claims on the slab stands!**





**Picture 6.4** – Example of too little clearance angle with too large overall thickness of the slab.



**Picture 6.5** – Example of a too little clearance angle with a too large overall thickness of the slab.



**Picture 6.6** – Overloaded iron support tubes showing risk of breakage respectively crushing.



**Picture 6.7** – Example of buckled tube due to overloading.



6.1.1 Option Trapezoidal Supports



Picture 6.8 Example Optional Trapezoidal Supports

|                   |        |                            |                     |
|-------------------|--------|----------------------------|---------------------|
| Total height [cm] | 141 cm | Max. Bearing Capacity [kg] | See following Table |
| Total width [cm]  | 50 cm  | Article Number             | 8010503             |
| Total depth [cm]  | 12 cm  |                            |                     |



Attention!  
 Values of the Table are valid only when using a Slab Height of from 1,8 m and a Slab width of from 2,5 m. Load equally distributed on 2 supports!



|  |    |    |     |
|--|----|----|-----|
| Min. inclination angle $\alpha$ [Degree] | 70 | 80 | 87  |
| Max. total slab thickness [cm]           | 30 | 58 | 190 |

## 7 Maintenance and Inspection

The Slab Stand requires regular Maintenance.

- Follow strictly the safety precautions – regulations as outlined in Chapter 4.3!



**Only those individuals with adequate knowledge and training may implement the following activities! The dealer or manufacturer is not liable for any damages incurred due to non-compliance to these instructions!**



According to ZH 1/428 regulations, this is a storage item, which has to be checked regularly by an expert according to need.

**The Inspection has to be implemented at least once a year:**

- Strict attention must be given to the safety precautions as outlined in Chapter 4.3!
- Check at least yearly the Slab Stand for rust spots in particular at the welding joints!
- Remove the rust and protect these parts from future corrosion by means of an anti-rust lubrication e.g. zinc spray.

## 8 Spare Parts List and Technical Drawings of the Slab Stands

In the following chapter the spare parts for the Jib-Boom Crane are outlined.

Please note when ordering your replacement parts. Only a complete indication of the required spare parts can guarantee a smooth processing of your spare parts order.

Always indicate with your orders the required quantities, the description of the parts, article number and if available the standard indication.

| Pos. | Quant. | Description                  | Standard Indication | Material. |
|------|--------|------------------------------|---------------------|-----------|
| 1    | 2      | Perforated rails galvanized  | Art. Nr. 8020665    | St        |
| 2    | 20     | Iron Support Tube galvanized | Art. Nr. 8020670    | St        |

### Slab Stand RR with Support Tube 1 Meter

Art. Nr. SET 080002

| Pos. | Quant. | Description                  | Standard Indication | Material. |
|------|--------|------------------------------|---------------------|-----------|
| 1    | 2      | Perforated rails galvanized  | Art. Nr. 8020665    | St        |
| 2    | 20     | Iron Support Tube galvanized | Art. Nr. 8020675    | St        |

### Slab Stand RR with Support Tube 1,5 Meter

Art. Nr. SET 080004

| Pos. | Quant. | Description                  | Standard Indication | Material. |
|------|--------|------------------------------|---------------------|-----------|
| 1    | 2      | Perforated rails galvanized  | Art. Nr. 8020668    | St        |
| 2    | 20     | Iron Support Tube galvanized | Art. Nr. 8020669    | St        |

### Slab Stand BISON

Art. Nr. 115161

| Pos. | Quant. | Description                  | Standard Indication | Material. |
|------|--------|------------------------------|---------------------|-----------|
| 1    | 2      | Perforated rails galvanized  | Art. Nr. 8020661    | St        |
| 2    | 16     | Iron Support Tube galvanized | Art. Nr. 8020677    | St        |

### Slab Stand Magnum with Support Tube 1,2 Meter

Art. Nr. SET 080032

| Pos. | Quant. | Description                  | Standard Indication | Material. |
|------|--------|------------------------------|---------------------|-----------|
| 1    | 2      | Perforated rails galvanized  | Art. Nr. 8020661    | St        |
| 2    | 16     | Iron Support Tube galvanized | Art. Nr. 8020678    | St        |

### Slab Stand Magnum with Support Tube 1,5 Meter

Art. Nr. SET 080033