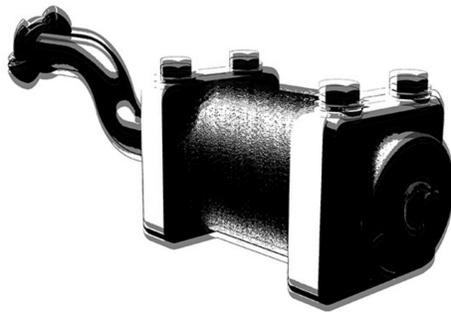




# operating manual RM 60



[ruemoo.at](http://ruemoo.at)

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## Foreword

These operating instructions were created to help you operate and maintain the RüMoo RM external air vibrator. It is intended for dealers and users and contains useful information for use, maintenance and repair. These instructions have to be observed.

RüMoo is not liable for unsafe working conditions, accidents and damage as a result:

- disregarding the warnings or hints stated on the machine or in the operating instructions
- improper and incorrect maintenance
- park the device in a damp room - risk of corrosion
- assembly or disassembly by unqualified people
- a use that does not correspond to the intended use
- changes to the device not made by the manufacturer.

The safety instructions must always be observed during the commissioning of the device.

Improper use or maintenance can nevertheless pose a danger to the user.

The information on operation and maintenance is therefore during the commissioning of the device always to be observed.

Defective devices must not longer be operated!  
Defective device parts have to be replaced immediately.

If you have any questions, please contact RüMoo GmbH, phone: +43 6433 20330.

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1. Read the operating instructions before using the device.
2. Be careful and aware
3. Note for technical requirements that must be given special attention.
4. Obligation to wear safety shoes
5. Obligation to wear hearing protection and safety glasses
6. Wear a hard hat

# 1. Safety Instructions

## 1.1 General

The instructions regarding operation, assembly, maintenance, repair, malfunction and the same are urgent to be observed to rule out dangers for your own safety and to avoid damage.

In addition, the machines may only be operated, serviced and repaired by persons who are familiar with the device and have been informed about the dangers.

The operating instructions have to be kept at hand together with the device and must be freely available to the operator at all times.



**The relevant accident prevention regulations, as well as the other, general Recognized safety-related and occupational medical rules must be observed.**

## 1.2 Intendend use/function

The RüMoo compressed air external vibrator generates a high-frequency vibration. By installing the vibrator on the formwork, the vibration is then transferred to the concrete via the formwork, thereby compressing it.

The device may only be mounted on formwork, molds, vibrating tables or vibrating boards for fresh concrete Compaction / fresh concrete ventilation can be used.

Other areas of application require the express consent of RüMoo GmbH.

Intended use includes compliance with these operating instructions and the compliance of the safety instructions included.

Improper use of the devices can endanger the safety of the user.  
For this reason, the instructions in this operating manual must be followed.



**Any manipulation or other use can result in loss of Warranty / guarantee.**

## 1.3 Structural Changes

No structural changes to the device may be made without the approval of the manufacturer will.



**Unauthorized structural changes lead to the loss of the guarantee.**

## 1.4 Use of spare parts

Use only original spare parts from RüMoo GmbH.

The installation of other spare parts or accessories can have design-related properties change negatively and thus impair safety.



RüMoo GmbH assumes no liability and warranty for damage caused by the use of non-original spare parts / accessories.

## 1.5 Country specific regulations



**Before commissioning the devices, the country-specific regulations, standards and guidelines have to be followed.**

Operational, official, national and generally applicable safety guidelines have been taken into account.

## 1.6 Requirements for the operating personal



**RüMoo products may only be operated by trained specialist persons who are familiar with these operating instructions.**

The work has to be made concentrated and in good physical shape.

Never work under the influence of drugs, alcohol or medication, as this will impair your responsiveness and judgment.

Requirements for the operating staff:

The people commissioned with the commissioning, operation, control and maintenance of the devices:

- must be over the age of 18.
- must be familiar with the devices and trained accordingly.
- have read and understood the operating instructions.
- must be informed about the intended use of the device.
- are authorized to put such devices into operation independently.
- must be instructed by your supervisor to work independently on the system and be able to avoid potential residual hazards for yourself and third parties when working on the system, to avert or minimize as much as possible.

## 1.7 Fall Protection



For concreting work over one meter high, the system, consisting of vibrator and bracket, must be secured against falling through an additional rope- strap connection between formwork and vibrator bracket.

## 1.8 Protective Equipment

We point out that wearing protective equipment is your own safety and protection serves against injuries. This includes wearing:

- suitable work clothes
- safety shoes
- safety gloves
- safety helmet
- safety glasses

 **When commissioning the device, country-specific permissible noise limits may will be exceeded. When operating the machine, it is imperative to wear soundproofing.**

## 1.9 Working Environment



Make sure the work area is clear of obstacles. Find out about Necessary safeguards for your construction site and your workplace. This also includes the following points:

- Necessary securing of the construction site to the public traffic area.
- Necessary protection of walls and ceilings.

Find out about help options in the event of an accident.

Always ensure that you stand securely while working (especially when working on scaffolding or ladders)

 **Never stand directly under the vibrators attached to the formwork if they are in operation. Always stay below the gaps between the fixings when you control the devices via a compressed air valve or other work on the formwork. The vibration can loosen mounting, drop, and endanger or injure people.**

## 2. Operation of **RüMoo** compressed air vibrators/formwork vibrators

### 2.1 Scope of delivery

The **RüMoo** compressed air external vibrator is delivered fully assembled and is only together with a Compressed air compressor (from air volume from 4m<sup>3</sup> / min; air pressure: 6 bar) ready for operation.

Included in the delivery:

- **RüMoo** compressed air external vibrator
- Depending on the order: mounted on an appropriate bracket for assembly on the formwork
- Depending on the order with accessories: hose connection and claw coupling, air distribution
- Operating instructions with safety instructions and spare parts catalog
- Project-related information for e.g. vibrating time and positioning of the vibrators on the formwork

### 2.2 Requirements/Checks

Before starting up, it is important that you check the compressed air external vibrator, all hoses (Compressed air lines), compressed air connections and all safety-relevant components for damage. Damaged components must be replaced or repaired by a specialist.

 **Only work with the device when it is in perfect technical condition. The device may only be used if it meets the security requirements.**

If there are deficiencies in the safety devices or other deficiencies affecting the safe operation of the device the authorized person must be informed immediately and the operation has to be stopped immediately. The device may only be put into operation again after it has been ensured that the defects do not endanger operational safety.

 **The mounted vibrator may only be attached to stable formwork and forms. Make sure that the fastening screws for mounting, the mounted vibrator or the bracket are tightened. Check the bracket for firm mounting on the formwork.**

 **Only use suitable brackets for attaching the **RüMoo** vibrator to the formwork.**

 Use the shortest possible compressed air lines to minimize the pressure drop. Route the compressed air lines as straight as possible or with large curve radii. To operate compressed air devices, you must dimension the line cross-section of the compressed air lines appropriately.

 **You may only operate the compressed air vibrator with compressed air hoses that are suitable and undamaged for use on construction sites**

 Make sure that couplings, sieves and seals are clean. To remove possible contamination in the hose, we recommend to blow out the compressed air supply line from the compressor before starting the vibrator.

**Note for winter operation and high humidity:**

In winter, some Rümoos-RM compressed air oil should be added to the compressed air lines in order to avoid ice formation on the compressor or air boiler. If the amount of moisture in the compressed air is too high, we recommend a water separator. Another option is to blow through the pipes with biological frost protection.



**Do not operate the device in a potentially explosive atmosphere.**



**The operator must not move away from the operating compressed air vibrator.  
The running device must never be left unattended.**



If the air tap, the valve on the compressed air hose or the compressor is open, the connected vibrators run immediately, when the compressor is switched on. The device can, as long as it is not yet firmly attached to the formwork, knock it over and injure people.



Before starting work, it must be checked whether all compressed air couplings and connections are fully engaged and firmly connected. Before and during the operation of the They are not allowed to solve vibrators independently. Compressed air lines can come loose due to incorrect installation. Due to the sudden escape of pressure, open hose ends can knock over and injure people and cause damage to property.



**Check the compressed air connections regularly:**

- The compressed air hose must not be damaged
- Coupling connections must not be damaged
- Air taps (air valves) must not be damaged
- Couplings must be correctly connected and connected to the compressor be connected

## 2.3 Commissioning

When the air valve is opened, the external vibrator is put into operation. The vibrating time depends on the corresponding project, e.g. from the recommended compaction time for the corresponding concrete consistency.

It must be ensured that sufficient air is available when all consumers work at the same time. Otherwise the vibrator will not be able to achieve the specified technical values.

We recommend a compressor with an air volume / min: 4-6m<sup>3</sup> / min and an air pressure of at least 6 bar. For stationary vibrators, we recommend a compressor size of min. 6m<sup>3</sup> / min at min. 6 bar.

Unless otherwise specified by the manufacturer, the devices are paired and one after the other is put into operation. Operate a maximum of two pairs of vibrators (4 vibrators) at the same time.

We recommend a 1 "compressed air line as the supply line - if this is not available, it is possible to use 2x ¾" hoses on two 2x ¾ "compressor outlets.

Note: Make sure that only the vibrators, which are closest to the location of the current concrete installation or just above the level of the pouring layer are switched on.  
(see point 3.3)

For further information (e.g. vibrating times, vibrator distances) please note the project-related Manufacturer's instructions.

- ⚠ After the first start-up, make sure that all compressed air add-on vibrators and brackets are firmly attached to the formwork and do not come loose. Where applicable retighten the screws for fastening the brackets to the formwork or knock down wedges for attaching the brackets again. Before any further concreting random checks must be made to check for a firm hold. Through the vibration, mountings can possibly loosen, fall down and endanger people.

**Formwork:**

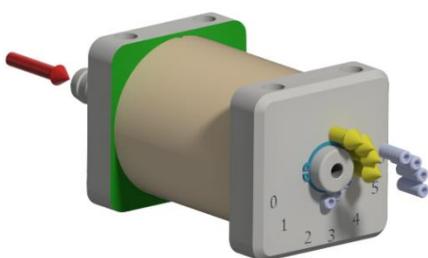
- ⚠ Pay attention to the permissible climbing speeds and the permissible formwork pressure. Observe the applicable standards with regard to formwork pressure.
- ⚠ Check the formwork anchor rods for firm hold at regular intervals. A formwork guard is generally required when using mounted vibrators.

**2.4 Regulation of the power by pressure regulators at a central air distribution**

The RM vibrators are delivered with a basic setting for use at approx. 6 bar. Depending on the version - 3-4 grub screws, or version - control disc, position 3-4. This setting corresponds to the performance when using frames and beam formwork.



If necessary, it is possible to gradually increase the speed and thus the performance of the mounted vibrator by removing the grub screws or adjusting the control disc.

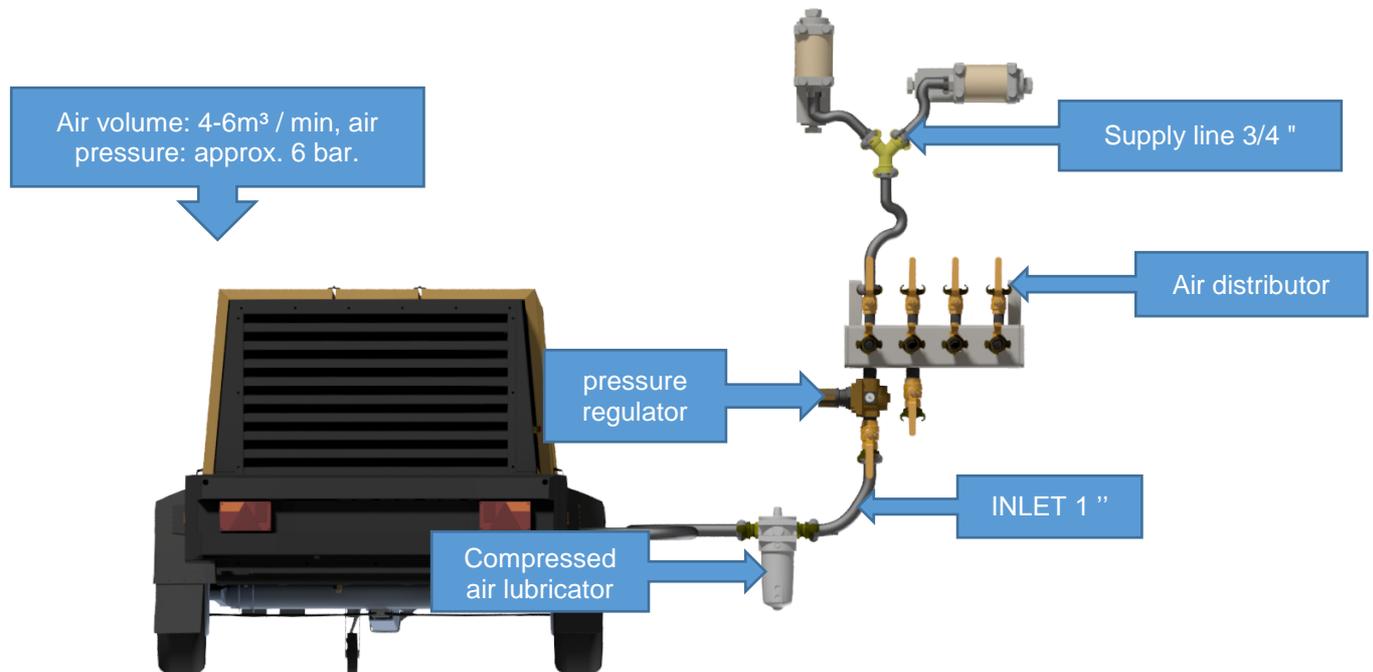


approx. values  
 Level 1 to level 2 +1500 rpm  
 Level 2 at level 3 +2500 rpm  
 Level 3 at level 4 +1000 rpm  
 Level 4 at level 5 +1500 rpm  
 Level 5 at level 6 +1000 rpm  
 Level 1 at level 6 +7500 rpm



## 2.5 Control of the add-on vibrators using pressure regulators and air taps on the central air distribution

With a compressor output of e.g. 8 bar is possible to regulate the performance of the vibrators, with one upstream pressure regulator by increasing or decreasing the air pressure.



## 2.6 Switch off device / maintenance

Switch off operational safety before breaks, when not in use and in the event of malfunctions endanger the vibrator by depressurizing the system and switching off the compressor:

**⚠ Before opening the compressed air connections, you must make sure that all Compressed air lines are free of pressure!**

### 3. Attachment of RüMoo compressed air vibrators - external formwork vibrators



Only use the RüMoo compressed air external vibrator with a mounting system that is suitable for the attachment to your formwork system. The RüMoo staff will advise you with pleasure.

#### 3.1 Device fastening RüMoo / assembly with clamping brackets

**Note:** When installing the above mentioned types of vibrators, make sure that the Compressed air connection hose of all vibrators points either to the **left** or to the **bottom**.



Please note the project-related information provided by RüMoo for the assembly positions of the vibrators on their formwork.



Make sure that the vibration unit (bracket + vibrator) is firmly attached to the formwork and cannot come loose.

When concreting work is more than one meter high, the system, consisting of vibrator and bracket, must be secured against falling by an additional rope-tensioning strap connection between the formwork and bracket.

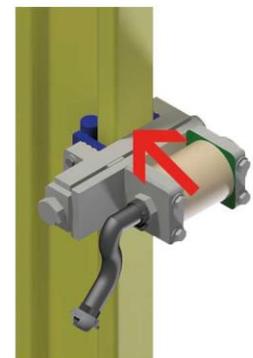
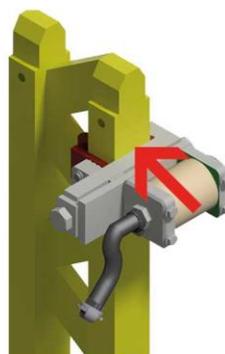
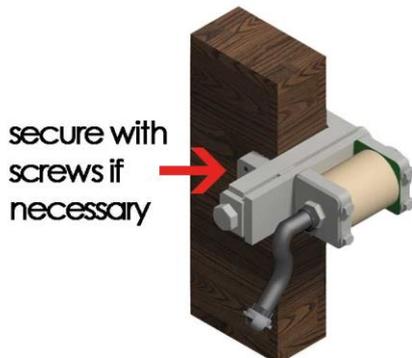
#### 3.1.1. Bracket types SSH with and without adapter

The above types of brackets are screw brackets, their jaws have to be pressed on the formwork beams.

Before screwing the bracket on, make sure that the complete Flank of the bracket (see arrow) just lies on the formwork support.

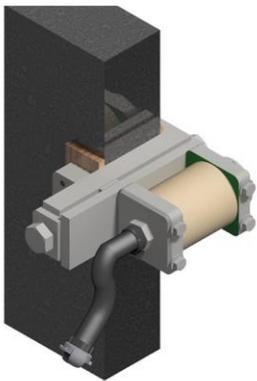
The bracket (wrench size 36mm) can be screwed with a ratchet (with long lever) or a compressed air or electric impact wrench onto the formwork beam.

If you use the SSH with a formwork-specific adapter, it is important that the adapter completely enclose the formwork beam.

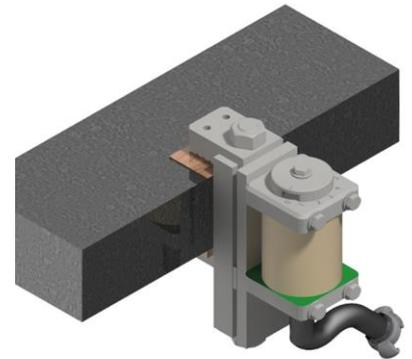


**Notes on mounting the bracket types SSH without an adapter on frame formwork:**

- ⚠ When attaching the vibration unit, consisting of vibrator and SSH bracket without an adapter, on steel frame formwork it is necessary to place a wooden board - NH wood between the Bake the clamp and clamp the frame formwork (see sketch below). Please do not use multi-layer glued wood. This is the only way to ensure a firmly held of the mounts can be reached on the frame formwork.



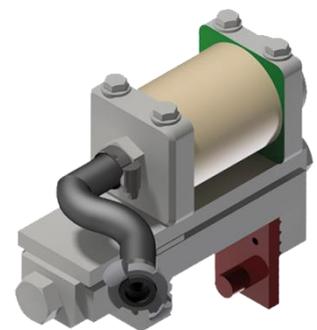
Bracket SSH without adapter on steel normal wooden board no multi-layer glued wood



**3.1.2 Bracket types with wedge system**

These mounting systems are standard formwork locks / directional locks from formwork manufacturers, which are adapted by RüMoo for the use of RüMoo compressed air vibrators.

With these mounting systems, the vibrators can be used on the element joints of the formwork or in the case the Peri Trio / Maximo frame formwork in the holes of the formwork beams, which was originally for the assembly of the formwork platforms are provided.



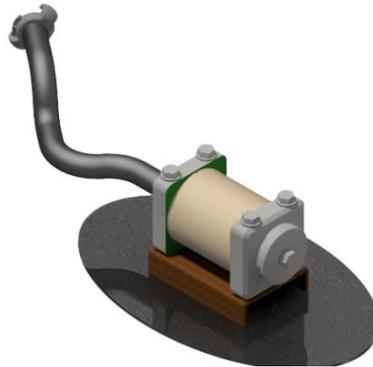
The scarf lock contains a welded mounting plate with holes in its function as a holder for fastening the RüMoo vibrator.

Please pay attention when installing the vibration unit, consisting of vibrator and bracket, to hammer in the wedge of the bracket solid, to create a positive connection between the bracket and to achieve the formwork.

### 3.1.3 Device attachment / assembly with stationary mounting plates

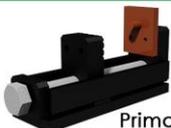
U-profile mounting plates are used to attach the vibrator to some steel formwork. The mounting plates must be attached to the bracket on the sheeting before the vibrator is attached. Steel formwork to be welded on. All welds have to be carried out in interrupted welding.

- ⚠ If the thickness of the steel sheeting is less than 6 mm, we recommend to weld an oval stiffening plate to the sheeting. The U-profile mounting plate is then welded onto the stiffening plate and no longer directly on the formwork skin.



The RüMoo vibrators are made according to the supplied project-related information screwed onto the mounting plates by RüMoo.

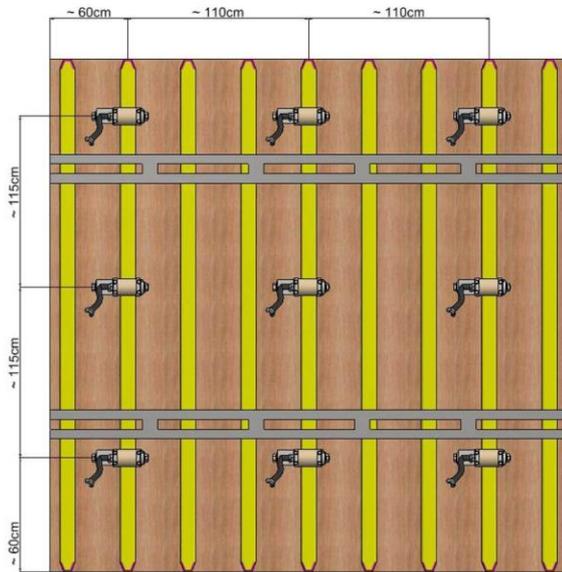
### 3.2 Brackets for pneumatic vibrators

Type	Application	Formwork
 <p>SSH H20</p>	<ul style="list-style-type: none"> <li>- wooden girder formwork</li> <li>- cross section</li> <li>- frame formwork</li> </ul>	<p><b>Peri</b> VT20 K  <b>Doka</b> H20, FF20, FF100tec  <b>Hünnebeck, Meva, Noe, Paschal:</b> H20</p>
 <p>SSH GT24</p>	<ul style="list-style-type: none"> <li>- wooden girder formwork</li> <li>- cross section</li> <li>- frame formwork</li> </ul>	<p><b>Peri</b> GT24  <b>Hünnebeck</b> GF24, ES24</p>
 <p>SSH Framax</p>	<ul style="list-style-type: none"> <li>- cross section</li> </ul>	<p><b>Doka</b> Framax XLife plus</p>
 <p>SSH Framax</p>	<ul style="list-style-type: none"> <li>- frame joint</li> </ul>	<p><b>Doka</b> Framax XLife plus            Alu Framax Xlife  <b>Ulma</b> Orma</p>
 <p>SSH Frami</p>	<ul style="list-style-type: none"> <li>- frame joint</li> </ul>	<p><b>Doka</b> Frami XLife</p>
 <p>SSH Primax   Manto</p>	<ul style="list-style-type: none"> <li>- cross section</li> </ul>	<p><b>Meyer</b> Primax (AT cross-section)  <b>Hünnebeck</b> Manto</p>
 <p>SSH Primax</p>		<p><b>Meyer</b> Primax (IT cross-section)</p>
 <p>SSH Mammut</p>	<ul style="list-style-type: none"> <li>- frame joint</li> </ul>	<p><b>Meva</b>            Mammut, Startec            Alu Star</p>
 <p>SSH Top</p>	<ul style="list-style-type: none"> <li>- cross section</li> </ul>	<p><b>Noe</b> Top</p>

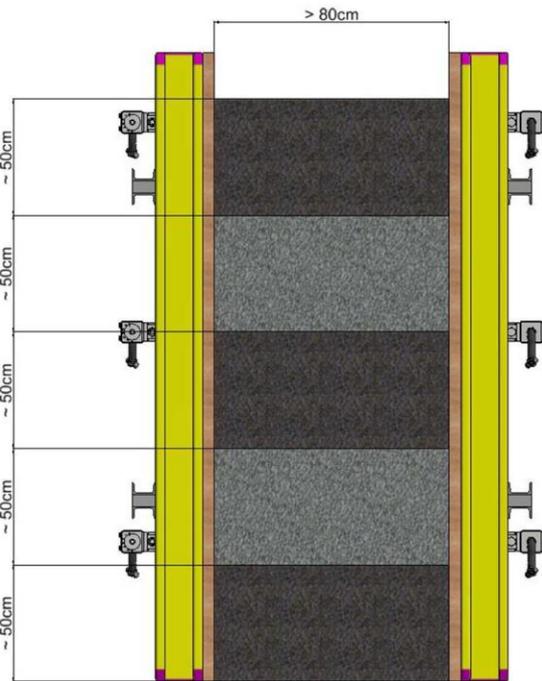
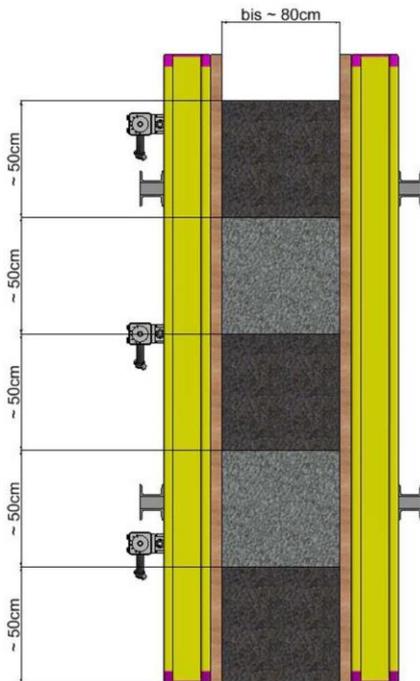
Type	Application	Formwork
 <p>SSH Trio</p>	<ul style="list-style-type: none"> <li>- Cross profile (recess for work platforms)</li> </ul>	<p><b>Peri Maximo , Trio</b></p>
 <p>SSH</p>	<ul style="list-style-type: none"> <li>- wooden girder formwork</li> <li>- Nail plate truss formwork</li> <li>- Squared timber formwork</li> </ul>	<p>mountable up to 18cm</p>
 <p>SH</p>	<ul style="list-style-type: none"> <li>- column formwork</li> <li>- steel profiles</li> <li>- Bars up to 23mm thick</li> </ul>	
 <p>BFD</p>	<ul style="list-style-type: none"> <li>- frame formwork</li> </ul>	<p><b>Peri Maximo , Trio</b></p>
 <p>Domino</p>	<ul style="list-style-type: none"> <li>- frame formwork</li> </ul>	<p><b>Peri Domino</b></p>
 <p>Schraubhalterung</p>		
 <p>Schraubhalterung</p>	<ul style="list-style-type: none"> <li>- wooden girder formwork (screwed)</li> </ul>	
 <p>Schweisshalterung</p>	<ul style="list-style-type: none"> <li>- IPE carrier (welded)</li> </ul>	

**3.2.1 Installation suggestions for RüMoo vibrators on a timber beam formwork / panel formwork**

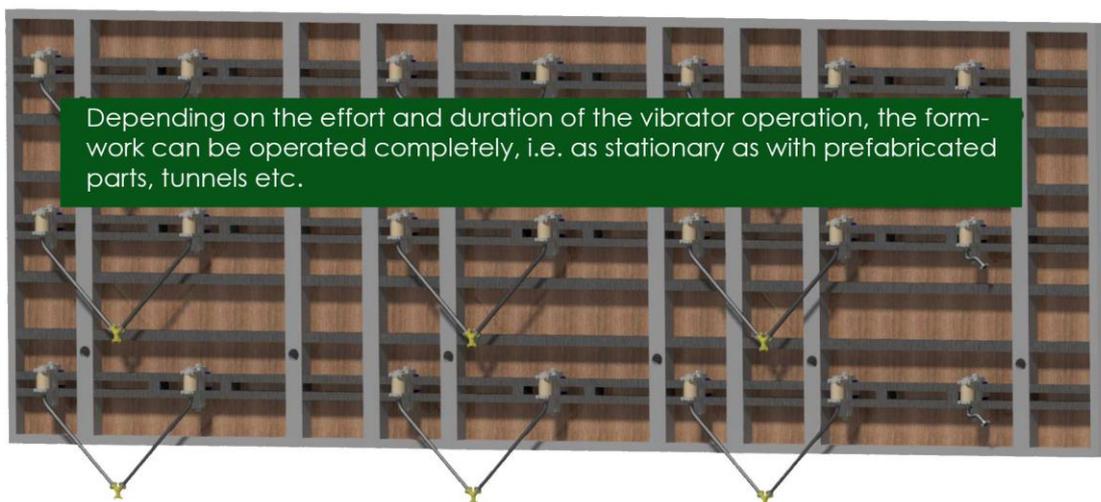
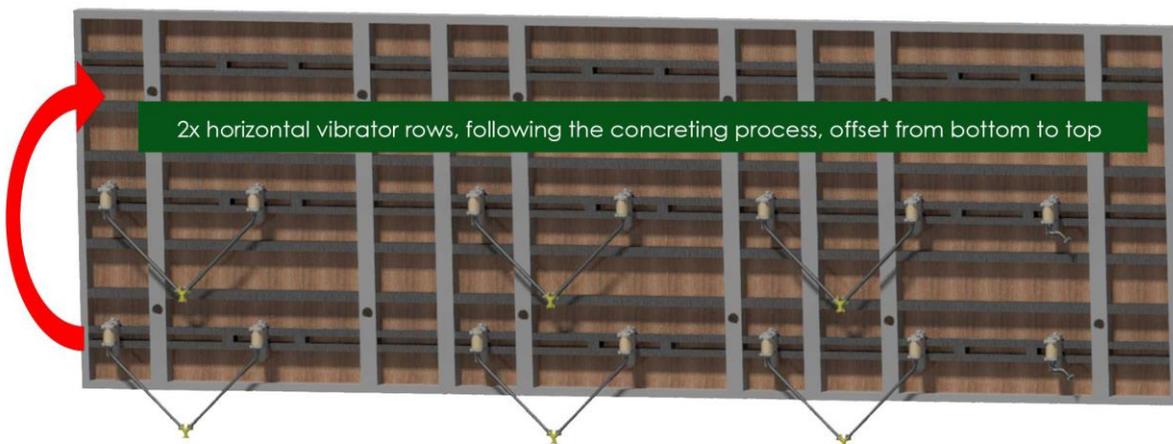
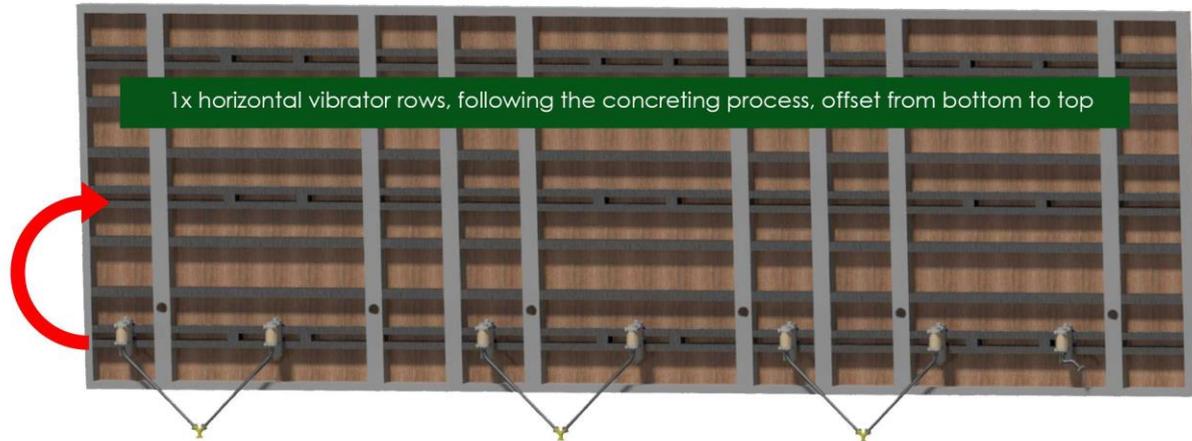
timber-beam formwork



panel formwork

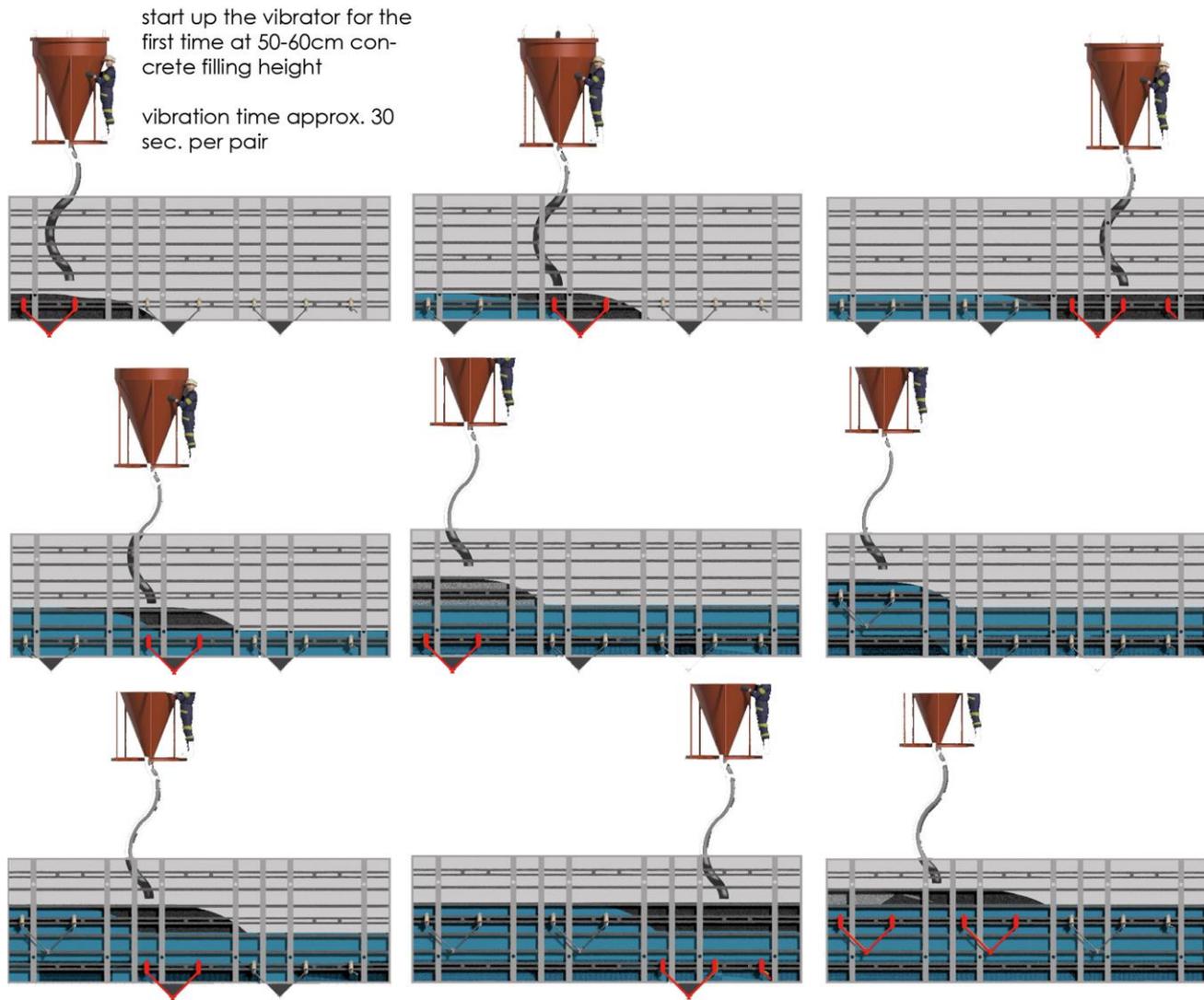


### 3.2.2 Equipping the formwork with RüMoo pneumatic vibrators:



### 3.3 Concrete vibrating compaction scheme

- always start the external vibrators in pairs
- max. 1-2 pairs of vibrators in operation
- compressor approx. 6 bar at 4-6m<sup>3</sup> / min
- concrete spread from ~ 48cm to ~ 56cm
- concrete bulk layers ~ 50-60 cm



Project-related information for e.g. Vibration duration and positioning of the vibrators on the respective formwork are always based on experience due to the many parameters, such as concrete installation, concrete formulation, concrete consistency, concrete impact depth, degree of reinforcement, formwork construction, etc.

**After more than 25 years of experience in concrete compaction, we feel able to create a vibrator concept that works as far as possible for almost any task.**

The following applies - a test of concreting - can secure a lot between the client and the contractor today.

## 4. Maintenance

### 4.1 Maintenance and cleaning work



Before maintenance and servicing work, you must switch off the vibrator and the air compressor properly and disassemble it from the formwork. Before the start of cleaning the vibrator must be stored carefully on a secure auxiliary structure and secured against falling, tipping over or sliding.

The add-on vibrator should be cleaned of concrete residues with water after each use. If a high-pressure cleaner is used for this, the vibrators must then be cleaned with a biological compressed air oil can be flushed out.

### 4.2 Maintenance schedule

The time intervals mentioned below are guidelines for normal and extreme operation (e.g. continuous use):

Visual inspection of all components for damage and inspection of all components for wear:

- Normal operation: before every use
- High activity: twice a day
- Permanent visual and hearing test

In the event of long periods of standstill or storage, it is advisable to use a biological compressed air oil to blow through the vibrator beforehand.

## 5. Possible disruptions



In the event of malfunctions, the device must be switched off immediately.  
Damaged and defective components must be replaced immediately.  
Checks on the devices are only switched off, by the air line to perform uncoupled state

### Checks in the event of complaints:

Malefunction	Cause	Elimination
Device does not start	Wrong assembly  Air performance too low  Soiling in the device  Damage to the device	Check whether the device hose connection points to the left or down  Check air supply (air volume and air pressure). Air volume: 4-6m <sup>3</sup> / min, air pressure: approx. 6 bar.  Check whether there is dirt in the strainer in the connection coupling. Clean the strainer.  Check whether the device mounting plate is flat  Check whether the housing is visibly damaged or deformed.
Device does not run at full power	Air performance too low  Air line incorrectly dimensioned Air line damaged.  Worn tax lamella	Check air supply (air volume and air pressure).  Air volume: 4-6m <sup>3</sup> / min, air pressure: approx. 6 bar.  Check the air conduction cross-section and the the air conduction length  The tax lamella must be replaced. Send the vibrator back for monitoring and purchase.

## 6. Transport

Depressurise the system before transport. Disconnect the compressed air couplings on the vibrator. Then loosen the vibrator bracket and remove the vibrator or vibrator with bracket from the component formwork after the fall protection has been released.

Secure the device against falling, tipping over or slipping during transport.

## 7. Disposal

This device contains valuable raw materials that are environmentally friendly when disposed of should be reused. Take the country-specific regulations into account when disposing of the device and guidelines, e.g. B. the European directive for waste electrical and electronic equipment.

## 8. Technische Daten

vibrator type	speed	centrifugal F	air consumpt.	sound	mass
	min <sup>-1</sup>	N	m <sup>3</sup> /min.	dB(A)**	kg*
RM- 60	17500	25000	1,0	102	4,5
RM- 75	17000	30500	1,1	109	5,7

\* Mass in kg (without hose connection and claw coupling)

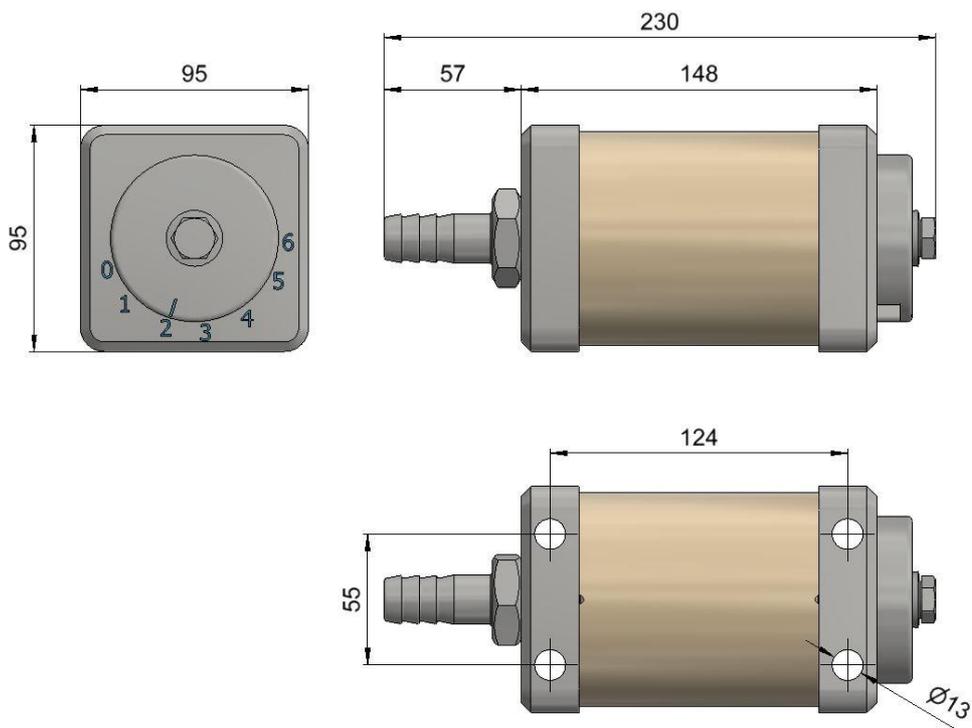
\*\* measured at 1m distance according to EN ISO 11204, at nominal speed in air

Speed and power vary depending on the component to be excited.

### Increase the speed by turning the adjusting disc:

approx. Values

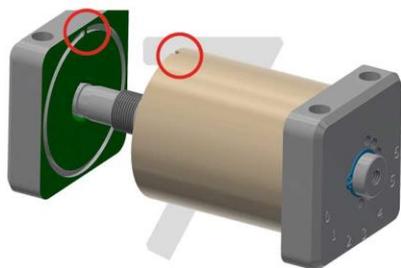
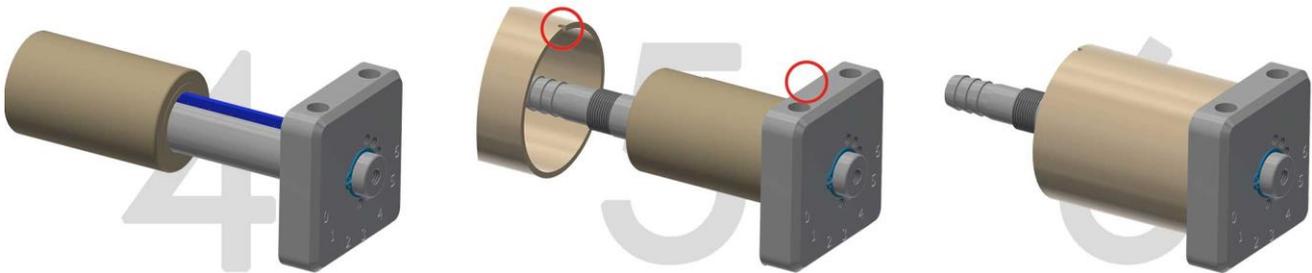
Level 1 to level 2	+1500 rpm
Level 2 to level 3	+2500 rpm
Level 3 to level 4	+1000 rpm
Level 4 to level 5	+1500 rpm
Level 5 to level 6	+1000 rpm
i.e. Level 1 to level 6	+7500 rpm



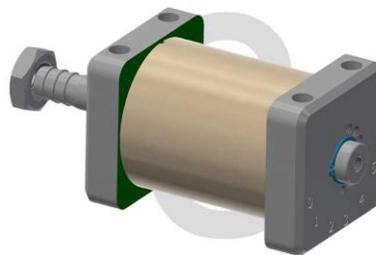
## 9. Disassembly / assembly of compressed air add-on vibrator RM



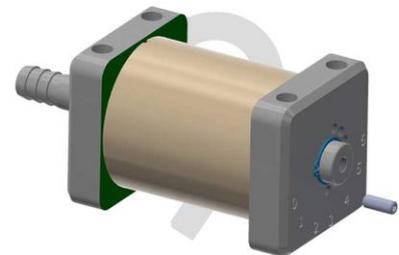
When inserting the lamella, pay attention to the correct position of the millings



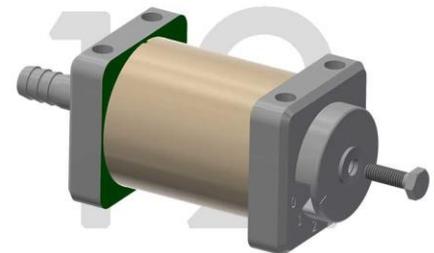
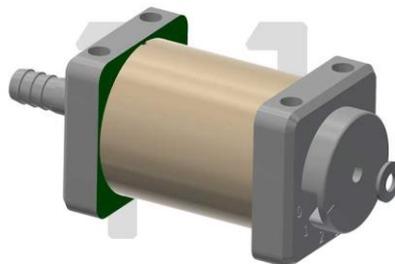
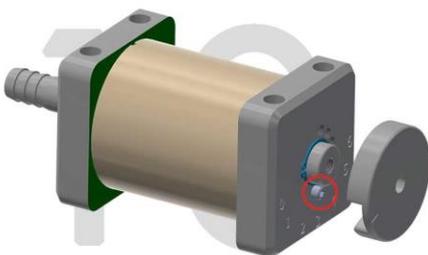
There are two notches in the cladding tube



Secure the cover with the M24 nut



Depending on requirements, screw in grub screws or fasten the speed wheel (see Fig. 12)



Fasten the speed disk

## 10. Spare Parts

Item	Quantity	Description
1	1	Screw nut
2	1	Cheek up
3	1	Rotor imbalance
4	1	wave
5	1	Slat
6	1	Envelope tube
7	1	Cheek down
8	1	Seeger ring
9	1	Adjust disc and screw



## 12. Declaration of incorporation:

We hereby declare that the products listed below are intended for attachment to a machine. Commissioning is prohibited until it has been established that the machine into which this Product to be installed, corresponds to the provisions of the EC Directive 2006/42 / EC.

### Guidelines:

We hereby declare that this product complies with the relevant provisions and requirements of the following guidelines and standards: 2006/42 / EG

### Product name:

Compressed air vibrator

### Types:

RüMoo

### Manufacturer:

RüMoo GmbH  
Unterbergerstrasse 16  
5632 Dorfgastein

### Authorized representative:

Dipl.-Ing.(FH) Stefan Mooser  
RüMoo GmbH  
Unterbergerstraße 16  
5632 Dorfgastein

Dorfgastein, am 25.03.2020