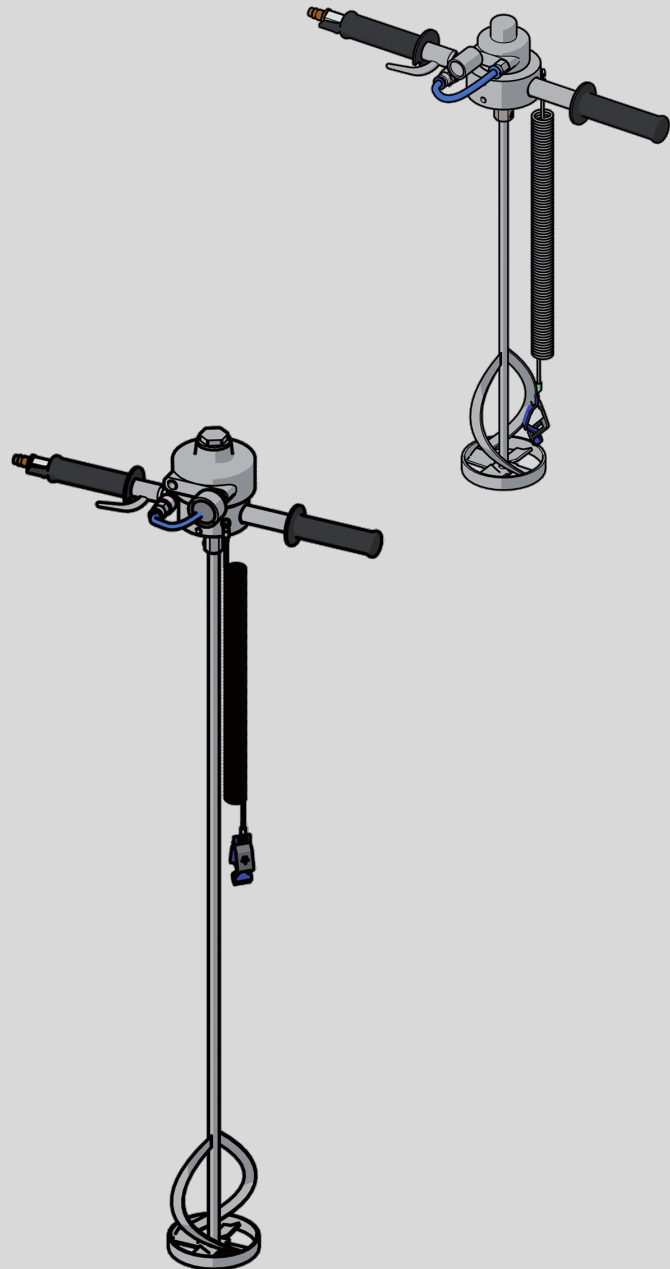


Operation Manual

PNEUMATIC MANUAL AGITATORS

RW



Serial No.:



EC declaration of conformity



in accordance with Annex II, No. 1 A of Machine Directive 2006/42/EC

The company **WIWA Wilhelm Wagner GmbH & Co. KG**
35633 Lahnau
Gewerbestraße 1-3
Germany

hereby declares that the machine **PNEUMATIC MANUAL AGITATORS**
type
with serial no.

conforms with the provisions of the above directives.
Responsible for documentation: **WIWA**, +49 (0)6441 609-0

Lahnau, December 18, 2025



Place, Date

Dipl.-Ing. (FH) Peter Turczak
Managing Director

EU declaration of conformity



in accordance with ATEX Directive 2014/34/EU and Annex II, No. 1 A of Machine Directive 2006/42/EG

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type
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conforms with aforementioned provisions.
The listed machine is assigned to Group II, Category 2G.

Labeling:  II 2G Ex h IIB T4 Gb

Responsible for documentation: **WIWA**, +49 (0)6441 609-0

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1 Foreword

Dear valued customer,

We are delighted that you have chosen one of our machines.

This operation manual is directed at the operating and maintenance personnel. It contains all information required in order to work with this machine.



The owner must ensure that the operating and maintenance personnel always have access to a copy of the operation manual in a language that they understand.

In addition to the operation manual, further information is also essential for the safe operation of the machine. Read and observe the directives and accident prevention regulations valid in your country.

In Germany, these are:

- ▶ DGUV rule 100-500, chap. 2.29 “Processing coating materials”,
- ▶ DGUV rule 100-500, chap. 2.36 “Working with fluid jets”,

both from the professional association for gas, district heating and water management.

We recommend enclosing all relevant directives and accident prevention regulations with the operation manual.

Furthermore, always observe the safety data sheets, manufacturer’s instructions and processing guidelines for coating or conveyance materials.

If questions should arise, we would be happy to assist you.
We wish you excellent working results with your machine

WIWA Wilhelm Wagner GmbH & Co. KG

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WIWA Wilhelm Wagner GmbH & Co. KG
Gewerbestraße 1–3 • 35633 Lahnau • Germany
Phone: +49 (0)6441 609-0 • Fax: +49 (0)6441 609-2450
Email: info@wiwa.de • Website: www.wiwa.de

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2 Safety

This machine has been designed and manufactured taking into consideration all safety aspects. It conforms to the current state of the art and the applicable accident prevention regulations. The machine left the factory in faultless condition and guarantees a high level of technical safety. However, improper operation and misuse will pose a risk to:

- the life and limb of the operator or third parties,
- the machine and other property of the owner,
- the efficient function of the machine.

It is fundamentally prohibited to implement any method of work that has a negative influence on the safety of the operating personnel and the machine. All persons involved in the installation, commissioning, operation, care, repair and maintenance of the machine must have read and understood the operation manual beforehand – in particular the “Safety” chapter.

Your safety depends on it!

We recommend that the machine owner have this confirmed in writing.

2.1 Explanation of symbols

Safety notes warn of potential accident risks and describe the measures required for accident prevention. In the **WIWA** operation manuals, safety notes are highlighted and labeled as follows:

DANGER

Signals a risk of accidents that are very likely to result in serious injuries and even death, if the safety note is not observed!

WARNING

Signals a risk of accidents that may result in serious injuries and even death, if the safety note is not observed!

CAUTION

Signals a risk of accidents that may result in injuries, if the safety note is not observed!



Signals important information for proper handling of the machine. A failure to observe this may result in damage to the machine or its environment.

Various pictograms are used in the safety notes for accident risks that may result in injury, depending on the hazard source.

Examples:



General risk of accident



Risk of explosion due to explosive atmosphere



Risk of explosion due to explosive substances



Risk of accident due to electricity or electrostatic charge



Warning of crushing



Warning of corrosive substances



Risk of injuries due to rotating machine parts



Risk of burning due to hot surfaces



Risk of freezing due to cold surfaces

The first line of the safety instructions indicates the personal protective equipment that must be worn. This is also highlighted and labeled as follows:



Wear protective clothing

Signals an instruction to wear the prescribed protective clothing, in order to prevent skin injuries due to the processing material or gases.



Use eye protection

Signals an instruction to wear protective goggles, in order to prevent eye injuries due to material spray, gases, vapors or dust.



Use ear defenders

Signals an instruction to wear ear defenders, in order to prevent damage to hearing caused by noise.



Use respiratory protection

Signals an instruction to use respiratory protection, in order to prevent damage to the respiratory tract caused by gases, vapors or dust.

**Wear protective gloves**

Signals an instruction to wear protective gloves in order to prevent injuries due to aggressive chemicals, burns when processing heated materials, or freezing due to contact with very cold surfaces.

**Wear safety shoes**

Signals an instruction to wear safety shoes, in order to prevent foot injuries due to falling, toppling or rolling objects, as well as slipping on slippery floors.



Signals references to directives, work instructions and operation manuals that contain very important information and must be observed.



Indicates a special note on explosion protection.



Indicates a special note on grounding.

2.2 Safety notes

**WARNING**

Always remember that this machine operates at high pressures and can cause life-threatening injuries if handled incorrectly!

Do not leave the machine unattended during operation. You must be able to intervene immediately in an emergency.

Do not insert tools or other objects into the ventilation openings of motors or pumps and make sure that no dirt gets inside, otherwise injuries and damage to the machine may occur.



Always observe and follow all information in this operation manual and in the separate operation manuals for the individual machine parts and optional accessories.

2.2.1 Risks due to electrostatic charge



WARNING

The high flow velocities in the airless or AirCombi spray process can result in an electrostatic charge. Static discharges can result in fire and explosions.

- ▶ Ensure that the machine is correctly grounded!
- ▶ Also ground the object that is to be coated.
- ▶ Never spray solvents or materials containing solvents into narrow-mouthed cans or drums with a bung opening!
- ▶ Only use electrically conductive material hoses. All original material hoses from **WIWA** are conductive and designed for our devices.
- ▶ Only use electrically conductive accessories/accessory parts.



WARNING

Dirty machines can become electrostatically charged. Static discharges can result in fire and explosions.

- ▶ Keep the machine clean.
- ▶ Always perform cleaning work outside of EX zones.


2.2.2 Explosion protection

The following short designations are used in the instructions of **WIWA**:

- ▶ Ex protection: Explosion protection
- ▶ Ex area: potentially explosive or non-explosion protected area
- ▶ Non-Ex area: non-explosive or explosion protected area
- ▶ Ex zone: Explosion protection zone according to ATEX Directive
- ▶ ATEX knowledge: Knowledge of explosion protection according to ATEX Directive



Machines and accessories that are not explosion-protected may not be used in operating facilities that fall under the explosion protection ordinance!

Explosion-protected machines can be identified by the corresponding  mark on the type plate and/or the ATEX-declaration of conformity provided.

When using the machine in Ex zones, the specialist personnel must have knowledge of ATEX.

Explosion-protected machines meet the requirements of the ATEX Directive for the device group, device category and temperature class cited on the type plate or in the declaration of conformity.

The owner is responsible for designating the zoning in accordance with ATEX Directive, Appendix II, No. 2.1–2.3 in accordance with the stipulations of the responsible regulatory body. The owner is required to check and ensure that all technical data and labeling comply with the applicable stipulations according to ATEX.

For applications where a failure of the device could lead to dangers to personnel, the owner is required to implement appropriate safety measures.

Please note that some parts have their own type plate with separate labeling according to ATEX. In this case, the lowest explosion protection of all labels displayed applies to the entire machine.

If agitators, heaters or other electrically operated accessories are attached, the explosion protection must be checked. Plugs for heaters, agitators, etc. that do not have explosion protection may only be plugged in outside of areas that fall under the explosion protection ordinance, also if the accessory itself is explosion protected.

2.2.3 Risks due to rotating parts



WARNING

Contact of body parts with rotating parts can lead to serious injuries.

- ▶ Switch off the agitator before taking it out of the container and wait until the agitator is at a standstill.
- ▶ Never put the agitator into operation outside of containers.
- ▶ Never reach into the container in which the agitator is being operated during operation.



WARNING

Loose articles of clothing or long hair can be caught by rotating parts.

- ▶ Wear tight-fitting clothing with low tear-resistance, tight sleeves and no projecting parts.
- ▶ Tie back long hair and wear a head covering.
- ▶ Remove jewelry, including rings.



CAUTION

Material can spray out during operation. Material spray can result in eye injuries and soiling.

- ▶ Wear the required protective clothing and protective goggles.
- ▶ Make sure the container is sufficiently filled. The mixing paddle / impeller must be completely covered with material.
- ▶ Remove the agitator from the container only after it has stopped completely.

2.2.4 Health risks



CAUTION

Depending on the materials being processed, solvent vapors may arise, which could cause damage to health and property.

- ▶ Make sure the workplace is sufficiently ventilated and aired.
- ▶ Always observe the safety data sheets and processing instructions of the material manufacturer.



When handling paint, solvents, oils, greases, and other chemical substances, observe the safety and portioning instructions of the manufacturer and the generally applicable regulations.



Only use suitable skin protection, skin cleansing and skincare products for cleansing the skin.

In systems that are closed or under pressure, dangerous chemical reactions may arise, if parts produced from aluminum or galvanized parts come into contact with 1,1,1 - trichloroethane, methylene chloride or other solvents that contain halogenated chlorinated hydrocarbons (CFCs). If you wish to process materials that contain the aforementioned substances, we recommend that you contact the material manufacturer to clarify their suitability for use.

A range of machines in rust and acid-resistant designs is available for these types of materials.

2.3 Safety features



WARNING

If one of the safety features is missing or is not fully functional, the operating safety of the machine is not guaranteed!

- ▶ Put the machine out of operation immediately if you detect safety feature defects or any other faults on the machine.
- ▶ Only put the machine back into operation once the faults have been fully rectified.

The machine is equipped with the following safety features:

- ▶ Compressed air shut-off valve
- ▶ Ground cable

Check the safety features on the machine:

- ▶ Prior to commissioning,
- ▶ Always prior to starting work,
- ▶ After all set-up work,

- ▶ After all cleaning, maintenance, and repair work.

Checklist on the pressureless machine:

- Free movement of the compressed air shut-off valves OK?

2.3.1 Compressed air shut-off valve

The compressed air shut-off valve at the air inlet interrupts the air supply for the agitator.

- ▶ Open ⇒ Position ball valve in the flow direction
- ▶ Close ⇒ Position ball valve transverse to the flow direction

2.3.2 Ground cable

The ground cable serves to prevent electrostatic charging of the machine.

The ground cable is already connected to the machine at the time of delivery (e. g. to the high pressure filter, the frame, the grounding rail, or the like).

If the ground cable is lost or defective, replace it immediately (art. no. 0659675)!

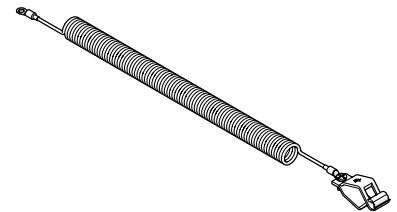


Fig. 1: Ground cable



The grounding points on this machine are labeled with the symbol shown on the left.

2.4 Operating and maintenance personnel

2.4.1 Obligations of the owner

The owner:

- ▶ is responsible for training the operating and maintenance personnel,
- ▶ must instruct the operating and maintenance personnel on correct handling of the machine, and on wearing the correct work clothing and protective equipment,
- ▶ must make work aids, such as e. g. lifting gear for transporting the machine or container, available to the operating and maintenance personnel,
- ▶ must make the user manual accessible to the operating and maintenance personnel and must ensure that it remains constantly available,
- ▶ must ensure that the operating and maintenance personnel have read and understood the user manual.

Only then are they permitted to put the machine into operation.

2.4.2 Personnel qualifications

Differentiation is made between two groups of personnel, depending on their qualifications:

- **Instructed operators** have received verified instruction from the machine owner regarding the tasks entrusted to him and the possible risks if the correct procedure is not followed.
- **Trained personnel** have received instruction provided by the machine manufacturer and are capable of carrying out maintenance and repair work on the machine, independently recognizing possible dangers and avoiding risks.

2.4.3 Authorized operator

Activity	Qualification
Set-up and operation	Instructed operator
Cleaning	Instructed operator
Maintenance	Trained personnel
Repair	Trained personnel



Children, young persons under the age of 16 and untrained personnel may not operate this machine.

2.4.4 Personal protective equipment



Wear protective clothing

Always wear the protective clothing stipulated for your working environment (e.g. anti-static protective clothing in potentially explosive areas) and also observe the recommendations in the safety data sheet of the material manufacturer.



Use Eye Protection

Wear protective goggles in order to prevent eye injuries due to material spray, gases, vapors or dust.



Use Ear Defenders

Suitable noise protection equipment must be made available to the operating personnel. The machine owner is responsible for compliance with the accident prevention regulation "Noise" (BGV B3). It is therefore necessary to pay particular attention to the conditions at the installation site – for example, noise pollution can increase if the machine is installed in or on hollow bodies.



Use respiratory protection

Although the airless and AirCombi spray processes minimize the paint mist with the right pressure adjustment and correct work method, we recommend that you use a respiratory protection mask.

**Wear Protective Gloves**

Wear anti-static, chemical-resistant protective gloves with forearm protection to prevent injuries due to aggressive chemicals, burns when processing heated materials, or freezing due to contact with very cold surfaces.

**Wear Safety Shoes**

Wear anti-static safety shoes, in order to prevent foot injuries due to falling, toppling or rolling objects, as well as slipping on slippery floors.

2.5 Warranty and liability

Except when otherwise stipulated,

- ▶ our General Terms and Conditions (GTC) apply for deliveries within Germany,
- ▶ our Orgalime SI 14 apply for deliveries to all other countries.

2.5.1 Spare parts

- ▶ When repairing and maintaining the machine, original spare parts from **WIWA** must be used.
- ▶ If spare parts are used that have not been produced or supplied by **WIWA**, the warranty is void and all liability shall be excluded.

2.5.2 Accessories

- ▶ If you use original **WIWA** accessories, their suitability for use in our machines is guaranteed.
- ▶ If you use third-party accessories, these must be suitable for the machine – in particular with respect to the working pressure, the current connection data, the connection variables, and use in Ex-zones, if applicable. **WIWA** will not be liable for any damage or injuries due to these parts.
- ▶ It is essential to observe the safety provisions applicable to the accessories. You can find these safety provisions in the separate operation manuals for the accessories.

2.6 How to respond in an emergency

2.6.1 Shutting down the machine and relieving the pressure

In an emergency, bring the machine to an immediate standstill and relieve the pressure:

- ▶ Close the compressed air shut-off valve or compressed air regulating valve.

2.6.2 Injuries

In case of injuries caused by processing material or cleaning agents, always have the safety data sheet ready to show to the doctor (supplier or manufacturer address, their telephone number, material designation and material number).

3 Description

3.1 Intended use

Compressed air driven manual agitators are intended for mixing and blending paints and lacquers, glue, adhesives, and other coating materials.




Intended use also includes:

- ▶ observing the technical documentation and
- ▶ complying with the operating, maintenance and servicing guidelines.

3.2 Erroneous use

Any use other than that stipulated in the technical documentation is deemed to be erroneous use and will void the warranty.

Erroneous use applies in particular if

- ▶ impermissible materials are processed,
- ▶ unauthorized modifications or changes are implemented,
- ▶ the safety features are removed, modified or bypassed,
- ▶ spare parts are installed that were not manufactured or delivered by **WIWA** (see section 2.5.1 on page 10),
- ▶ accessories are used that are not suitable for the machine (see section 2.5.2 on page 10),
- ▶ machines without  identification are used in potentially explosive atmospheres,
- ▶ the machine is operated outside of the operating limits according to the type plate.

3.3 Construction

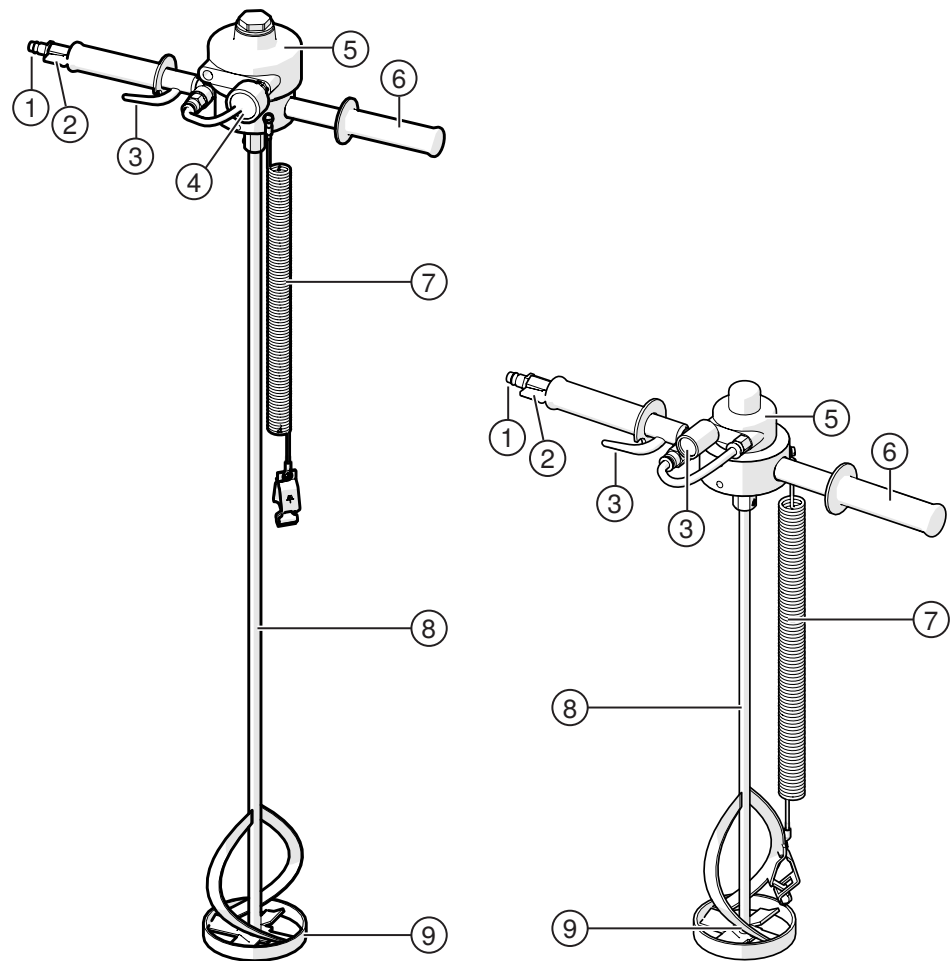


Fig. 2: Manual agitator HR 200 / 0.7 and HR 30 / 0.22

No.	Designation
1	Compressed air connection
2	Compressed air shut-off valve
3	Lever for opening and closing the compressed air supply
4	Muffler
5	Air motor
6	Handle
7	Ground cable
8	Stirring rod
9	Mixing paddle (or optional impeller)

4 Transport, installation, and assembly



The machine left the factory in faultless condition, packaged correctly for transport. Check the machine at the time of receipt for any transport damage and for completeness.

4.1 Transport


When transporting the machine, observe the following information:

- ▶ When loading the machine, ensure sufficient load-bearing capacity of the lifting gear and lifting accessories. The dimensions and weight of the machine can be found on the machine card and type plate.
- ▶ The machine may only be lifted at the intended attachment points for lifting accessories.
- ▶ When lifting or loading the machine, do not transport other objects simultaneously (e. g. material drums) with the machine.
- ▶ Never stand under suspended loads or in the loading area.
There is a risk of death here!
- ▶ Secure the load on the transport vehicle to prevent sliding and falling.

If the machine has previously been in operation, please observe the following:

- ▶ Disconnect the entire energy supply to the machine - even for short transport distances.
- ▶ Lift the agitator out of the material drum before transport.

4.2 Installation site

The machine is intended for installation outside of Ex-zones by default. Installation inside of Ex-zones is only possible with the explosion-protected version of the machine. Observe and follow the  labeling on the type plate!

Ambient temperature:

- ▶ minimum: 0 °C or 32 °F
- ▶ maximum: 40 °C or 104 °F


WARNING

If the machine is used outdoors during a storm, a life-endangering situation may arise for the operating personnel due to lightning!

- ▶ Never operate a machine outdoors during a storm!
- ▶ The owner must ensure that the machine is equipped with suitable lightning protection equipment.

Safety measures at the installation site:

- ▶ Position the machine horizontally on a floor that is level, firm and free of vibrations. The machine may not be tilted or tipped.
- ▶ Fasten the machine to its installation site, in order to secure it against unintended movement.
- ▶ Make sure that all controls and safety features are easy to reach.
- ▶ Keep the working area clean, especially all walking and standing areas. Remove any spilled material and cleaning agents immediately.
- ▶ In order to prevent harm to health and damage to property, ensure sufficient venting of the workplace. It is necessary to guarantee at least five-times air exchange.
- ▶ Always observe and follow the safety data sheets and processing instructions of the material manufacturer.
- ▶ Protect all items neighboring the object against possible damage due to material spray.

4.3 Grounding the machine


WARNING

The rotation of the mixing paddle / impeller and the friction associated with it can result in an electrostatic charge.

Static discharges can result in fire and explosions.

- ▶ Ensure that the machine is correctly earthed outside of EX zones!
- ▶ Ground the object that is to be coated.
- ▶ Always use open containers!
- ▶ Never spray solvents or materials containing solvents into narrow-mouthed cans or barrels with a bung opening!
- ▶ Set the container down on a grounded surface.
- ▶ Use electrically conductive containers.
- ▶ Only use electrically conductive material hoses. All original material hoses from **WIWA** are conductive and designed for our machines.

- ▶ Connect the ground cable of the machine to an electrically conductive object outside of Ex zones.
- ▶ For an installation or assembly with a spraying device, the grounding can occur via the spraying device.



Observe and follow the operation manual of the spraying device.

4.4 Connecting the compressed air supply



CAUTION

Lines laid on walking surfaces are a tripping hazard capable of causing injuries to the operating personnel.

- ▶ Place the compressed air line so that a tripping hazard for the operating personnel cannot result.



To ensure the required quantity of air, the compressor output must comply with the air requirement of the machine, and the diameter of the air supply hoses must match the connections.



Operation with contaminated or moist compressed air leads to damage in the machine's pneumatic system.

- ▶ Only use compressed air that is dried, oiled and dust-free!
- ▶ For assembly without a fog oiler, oiled compressed air is to be provided on site.

1. Make sure that all compressed air shut-off valves are closed and all compressed air regulators are turned all the way down.
2. Connect the compressed air line to the hose connector of the agitator.
3. We recommend a connection via the maintenance unit of the spraying device or the compressed air distributor of the coating unit. This ensures operation with oiled compressed air. Observe and follow the operation manual for the spraying device and the coating unit!

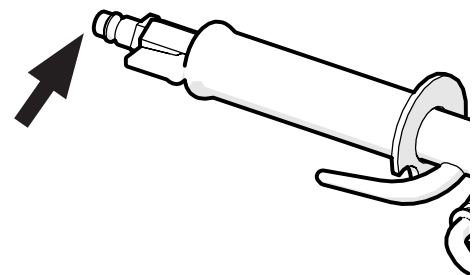


Fig. 3: Compressed air connection (example)

5 Operation

- ▶ The machine must be correctly assembled, grounded and connected.
- ▶ Only put the machine into operation if you are equipped with the prescribed personal protective equipment (see section 2.4.4 on page 9).
- ▶ The container, in which the agitator is to be operated, must be sufficiently filled.



WARNING

Operation with contaminated or moist compressed air leads to damage in the machine's pneumatic system.

- ▶ Only use air that is dried and free of dust!
- ▶ Feed the compressed air one drop of oil per minute. The use of a maintenance unit with a fog oiler is recommended.



Observe and follow the safety data sheet of the respective material manufacturer when processing and storing spraying materials.

5.1 Switching on the agitator



CAUTION

The rotating agitator can cause injuries.

- ▶ Only operate the agitator inside a container!

1. Make sure that the agitator is connected to the compressed air supply and properly grounded (see section 4.4 on page 16).
2. Open the compressed air shut-off valve.
3. Hold the agitator tight at the handles with both hands.
4. Actuate the lever on the handle.

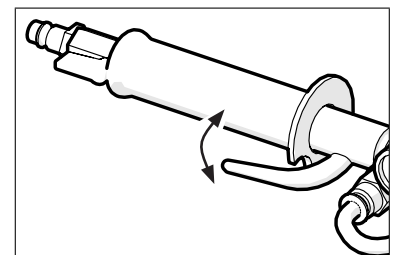


Fig. 4: Lever on the handle

If the rotating impeller grinds on the edge of the container, sparks can arise in metal containers which can trigger fires and explosions.



WARNING

- ▶ Always ensure that a sufficient distance between the impeller and the edge of the container remains during operation.
- ▶ Only operate the agitator vertically!

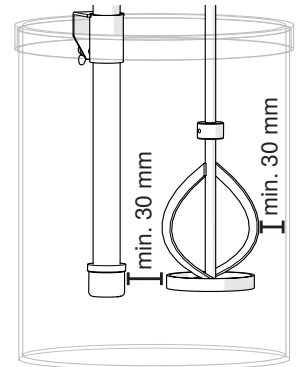


Fig. 5: Keep a distance!



CAUTION

Material can spray out during operation. Material spray can result in eye injuries and soiling.



- ▶ Wear the required protective clothing and protective goggles.
- ▶ Make sure the container is sufficiently filled. The mixing paddle / impeller must be completely covered with material.

5.2 Decommissioning



CAUTION

The rotating agitator can cause injuries. Material spray can result in eye injuries and soiling.

- ▶ Remove the agitator from the container only after it has stopped completely.

1. Let go of the lever.
2. Close the compressed air shut-off valve.

5.3 Rührkorb/Rührstab wechseln

The mixing paddle can be very easily removed or replaced by releasing the screws on the stirring rod.

Observe the sizes for the stirring rod and mixing paddle according to the technical data (see section 8 on page 24).

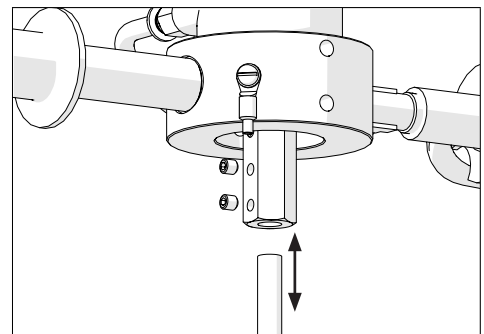


Fig. 6: Replacing the stirring rod

5.4 Cleaning the machine

Cleaning the agitator is necessary each time work is interrupted so that adhering material does not harden.



Use only the cleaning agent recommended by the material manufacturer and appropriate for the material.

1. Shut down the agitator according to section 5.2 on page 18.
2. Clean all parts of the agitator that have come into contact with the material with a cleaning agent appropriate for the material.

5.5 Storage

1. Remove the compressed air line and muffler.
2. Administer some oil into the motor and turn the shaft by hand a little while in order to distribute the oil.
3. Close the connections.
4. Coat the shaft with oil or lubricant.

The location for storing the machine must be

- ▶ clean,
- ▶ dry,
- ▶ frost-free and
- ▶ protected against direct sunlight

5.6 Disposal

Residues of processing material, flushing agents, oils, greases and other chemical substances must be collected according to the legal regulations for recycling or disposal. The official local waste water protection laws apply.

At the end of the machine's use it must be put out of use, disassembled and disposed of according to the legal regulations.

- ▶ Thoroughly clean the machine of material residues.
- ▶ Disassemble the machine and separate the materials – metals must be taken to a scrap metal depot, plastic parts can be disposed of with household waste.

6 Maintenance



WARNING

If untrained personnel carry out maintenance and repair work, they endanger themselves and others, and risk the operational safety of the machine.



WARNING

During maintenance work, ignition sources may arise (e. g. due to mechanical sparks, electrostatic discharge, etc.).

- ▶ Carry out all maintenance work outside of potentially explosive areas.

Prior to maintenance and repair work:

1. Shut off the compressed air supply,
2. Relieve the pressure in the machine completely.

After completion of the maintenance and repair work:

- ▶ Check the function of all safety features and the faultless function of the machine.

6.1 Regular testing

The machine must be inspected and maintained regularly by a specialist:

- ▶ prior to first commissioning,
- ▶ after changes to / the servicing of parts of the installation that affect safety,
- ▶ after an interruption to operation lasting more than 6 months,
- ▶ although at least every 12 months.

In the case of machines that have been put out of use, the test can be delayed until the next time commissioning takes place.

The results of the tests must be recorded in writing and stored until the next test. The test certificate or a copy of this must be available at the machine's place of use.



Have repair work carried out exclusively by **WIWA** Service or trained specialist personnel (in/from authorized workshops if necessary).



When using the machine in Ex zones, the specialist personnel must have knowledge of ATEX.

6.2 Maintenance schedule

The information in the maintenance schedule constitutes recommendations only. The time frames may vary depending on the characteristics of the materials used, as well as external influences.

Time frame	Activity	for further reading
Prior to each commissioning	Inspection of the stirring rod and impeller for damage	
Once per week	Visual inspection of the compressed air hose	section 6.3 on page 21
Every three years	Check of the compressed air and material hoses by a specialist and replacement if necessary	section 6.3 on page 21
Every 6 years at the latest (incl. storage duration of the hose line)	Complete replacement of the compressed air and material hoses	section 6.3 on page 21

6.3 Checking the compressed air and material hoses

Check the compressed air and material hoses weekly for externally visible damage, such as kinks, cracks, signs of wear or bulges.



Improper use and impermissible stress are the most frequent causes of damage. Damaged hoses must be replaced immediately.

Hose lines are subject to a natural aging even with proper use and permissible stress. Their duration of use is thereby limited. Therefore, the compressed air and material hoses must be checked by a specialist every three years.



The duration of use of a hose line, including any possible storage duration, may not exceed six years. The manufacturing date of a hose line (month/year) is stamped on the ferrule.

6.4 Cleaning the motor

Clean the motor if it runs with difficulty or too slowly.



Wear protective goggles.

1. Remove the compressed air line and muffler.
2. When using liquid solvents, fill a few tablespoons directly into the inlet opening of the motor. Spray the spray solvents into the inlet opening for 5-10 seconds.
3. Turn the shaft by hand for several minutes in both directions.
4. Cover the air outlet with a cloth and connect the compressed air line again.
5. Let the motor run at a low pressure (0.7 bar /10 PSI) until there is no solvent residue in the outflowing air.
6. If necessary, clean the filter in the muffler and reinstall the muffler.
7. If the motor is running smoothly again, the cleaning was successful. If not, please contact **WIWA** customer service or your **WIWA** specialized dealer.

7 Eliminating operational faults



Only eliminate operational faults if you are equipped with the prescribed personal protective equipment. Details on this can be found in section 2.4.4 on page 9.

fault	possible cause	remedy
Agitator does not start	No compressed air connected	Connect the agitator to compressed air (section 4.4 on page 16).
	Compressed air shut-off valve closed	Open the compressed air shut-off valve.
	Air supply closed	Crank the lever on the handle completely.
Agitator runs with great difficulty or too slowly	Compressed air supply too low	Increase compressed air supply.
	Motor power too low	Clean the motor (section 6.4 on page 21), Consult WIWA , if necessary.
	Viscosity of the material too high	Use a stronger agitator.
No rotation or insufficient rotation of the impeller	Stirring rod / impeller not properly installed	Check all parts for firm seating, tighten screw connections.
	Compressed air supply too low	Increase compressed air supply. Crank the lever on the handle completely.
	Viscosity of the material too high	Check suitability of impeller for the material. If possible, warm up or dilute material. (Observe the material data sheet!)
	Motor power too low	Check motor power, consult WIWA if necessary.
	Motor defective	Have motor repaired by specialist personnel, replace if necessary.
Uneven running of impeller	Impeller damaged	Replace impeller (⇒ observe spare parts list).
	Bearing defective	Replace bearing (⇒ observe spare parts list).

8 Technical data

The technical data for your machine can be found on the machine card enclosed or on the type plate, as well as in the following table:

Type designation	HR 30/0.3	HR 200/0.7
Item no.	0664918	0664911
Motor type	1AM-NCW-14	2AM-NCC-16F
Drive performance [W]	300	700
Speed [rpm]	500–6000	300–3000
Compressed air connection [bar]	max. 7.0	max. 7.0
Compressed air regulator	no	no
Direction of rotation	↻ clockwise	↻ clockwise
Fog oiler installed	no	no
Fog oiler setting	1 drop/min	1 drop/min
∅ Mixing paddle [mm]	90	110
Mixing paddle length [mm]	530	1025
∅ Stirring rod [mm]	10	13
Motor height [mm]	80	100
Weight [kg]	2.0	4.5



Both types are suitable for Atex Zone 1.

8.1 Machine card

The machine card contains all important and safety-relevant data and information for the machine.

- ▶ precise designation and manufacturer's data
- ▶ technical data and limit values
- ▶ equipment and test confirmation
- ▶ procurement data
- ▶ machine identification (machine components and accessories supplied with article and spare parts numbers)
- ▶ a list of the supplied documentation.

8.2 Type plate

The type plate is located on the motor of the agitator. It contains the serial number. Furthermore, the motors have a separate type plate. These type plates contain the technical data and serial numbers for the respective components.



Please ensure that the data on the type plate matches the information on the machine card. If there are discrepancies, or the type plate is missing, please inform us immediately.

8.3 Applicable documents



Observe and follow the operation manual of the attached motor.

Headquarter and production

WIWA Wilhelm Wagner GmbH & Co. KG

Gewerbestraße 1–3
35633 Lahnau
Germany
Phone: +49 (0)6441 609-0
Fax: +49 (0)6441 609-2450
Email: info@wiwa.de
Website: www.wiwa.de

WIWA subsidiary USA

WIWA LLC – USA, Kanada, Lateinamerika

107 N. Main St.
P.O. Box 398, Alger, OH 45812
USA
Phone: +1-419-757-0141
Fax: +1-419-549-5173
Email: sales@wiwa.com
Website: www.wiwausa.com

QR-Code