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SPIRATOR – 9 Instruction

This large upheaval vibrator, with about 9 liters working capacity (for about 10kg stones), is particularly suitable for Grinding, polishing, washing, deburring, derusting, matting, mixing, coating of objects /Materials of various kinds, from small to about 12 cm tall, but also, depending on the object type, shapes and respective weights, larger. In the 13 cm wide grinding track, thin/narrow objects up to even 20 cm in length can "run".

For object types such as fasteners (screws, nuts), stamped/laser parts, etc., car parts, jewelry parts, glass, ceramics, wood, rubber (coated with talc), plastic (deburring), stones such as pebbles, (semi-) gemstones and amber...

Each type of work mentioned above (as well as others) requires its own processing method, partly also with e.g. additions such as grinding, polishing POWDER and/or grinding/polishing BODY, cleaning/polishing soap, organic granulate, stainless steel polishing body, cleaning/polishing soap,.... Ask us if necessary.

The correct handling of the device (before use) is very important to achieve the best possible results in a reasonable time. Take enough time to read this instruction manual from start to finish.

This device must be connected to 220/230 volts, 50 Hz 1-phase alternating current (= in European countries usually the usual domestic power supply) and is suitable for continuous 24-hour operation. The device works by vibration, i.e. each filled part to be machined is in constant motion. By means of added media, the desired effect is achieved.

1. Place the machine correctly: Look for a stable, horizontal, dry, clean, ventilated place where there are no people and no frequent. Close to a power outlet. Not near a heat source, not under possible sunlight. A slightly rough / non-slip surface would be ideal, so that a possible "wandering" of the device is prevented. If the device is to be raised, e.g. on a table, attach four short (so that there is still enough ventilation in between) strips / blocks crosswise around the machine base so that they firmly "clasp" the device.

2. Warning: Never cover the machine (e.g. with a bag or cardboard box for noise insulation), as the motor needs cooling from below and above due to good air circulation. The upper part of the machine with its container must also be able to vibrate freely. Never work without the fixed lid (on top of the container) ! Never try to open the lid while the machine is running. Never switch on the machine running when the container is empty. The container must always be firmly screwed onto the machine for the operation. The container must never rotate on its platform, not even "a little". In this case, check nuts for a tight fit.

At the top of the container and at the bottom of the lid a position line was attached in each case. Position these two position lines on top of each other and then screw on the U-disc(s) and closure nut until the lid sits firmly on the container. Always plug the power plug out of / into the socket with dry hands and... handle only the plug and not the cable. For good and fast results, fill the container as full as possible, but not beyond the height of the inner cone.

Wearing hearing protection while the machine is running is mandatory. Depending on what is processed, the noise level can reach up to about 75 dB, empty it is up to 50 dB. Measured in close proximity and without abrasive, which reduces the noise level. For other persons present or for persons who have to enter the room from time to time, this obligation also applies.

3. WORK WITH THE MACHINE: Fill containers to a little below the average cone height (total capacity). Place the container and mount it firmly. Observe if the machine is running properly and not "wandering" = slowly vibrating away from its place). The base of the machine, when touched with the bare hand, must stand still, without feeling vibrating. Then you can leave the room.

4. CHECK : After about an hour, check whether the upper layer of the filling looks "NEAT" with the machine stationary and the container lid removed. that is, if you only work with solid abrasives and some water, that the mixture with the objects looks well mixed or if you work with powder and a little water, that all parts you see on top are covered or wrapped with a thin layer of mud! If the last one is not the case, there is too much water in the container, which makes the grinding or polishing sludge too thin and finally rinses the powder off the objects so that it remains useless at the bottom. What to do? With a sponge or kitchen paper etc. take up the water.

We can only theoretically give you an indication for working with the right ratio of powder and water: wet the container inside and the objects to be filled well; use a certain amount of powder (about 100g; please find out for yourself). Therefore, it is better to first sprinkle a little less than the estimated amount of powder and then, after the approximately 1-hour test, to add some powder or spray some additional water if the grinding sludge looks too thick / tough. So it should never run too dry and not too liquid (no abrasive effect).

Especially in the first few weeks, check regularly + always note your findings so that you can learn lessons later and achieve the best working method for your product(s).

5. EMPTY CONTAINER: With light filling, the container may be dismantled and emptied. In the case of heavy filling, on the other hand, the objects should be removed from the container still standing on the machine.

REMOVE CONTAINER for emptying, cleaning or changing containers : On top of the container lid, loosen and remove the nut. Also the U-disc (= washer). Lift off the lid, loosen the large nut inside the container cone and unscrew it. Also the U-disk. Now the container can be lifted off.

For the later **ASSEMBLY** of the container, perform the above steps in reverse order.

The use of a separate container is advisable if, for example, a change from grinding to polishing is imminent or already very smooth objects have to be processed with very fine additional media. Then it is not so good to do this in a container that is already very rough inside.

However, if the same container is to be used during a media change (from rough processing to fine processing), it must be carefully cleaned (the inside scrubbed with a very hard brush) (removed from the machine). If you use several containers for different uses, mark them clearly on the outside to avoid mix-up.

If there is a need for grinding / polishing bodies and powders, polishing stainless steel bodies, organic granulate, as an addition for cutting / polishing / drying, please contact us.

6. Machine care:

Always keep machine and environment clean. And... approximately every 7000 working hours :

- a) Disconnect the power supply: Unplug (with dry hands) from the socket.
- b) remove the container from the machinery.
- c) Clean the outside of the machine with a dry cloth, then possibly with a damp cloth/cloth.
- d) Clean the threaded rod.
- e) Carefully set the machine on its side.
- f) At the bottom of the machine = on the outside of the base, remove the protective grille plate and...
- g) remove dust/dirt in the engine compartment. Clean the engine itself **ONLY** dry.
- h) Tighten the screw of the unbalance iron
- i) Tighten all 6 screws, if loose, which end inside the springs (at the bottom of the machine base).
- j) tighten all 6 screws, if loose, which end inside the springs at the top (directly on the motor plate).
- k) Reattach / screw the protective grid plate. (l) Re-erect the machine. m) Clean the threaded rod (e.g. with a brush) and drive along it only with a greasy cloth. (Too much grease would stick too easily and too much dirt over time)

When the machine moves, check (with the machine switched off, plug pulled out of the socket) whether the threaded rod (1) on top of the machine is firmly seated on the upper part (9 motor plate) (see under "Care") and whether the container has been correctly mounted on top of the machine.

Disposal: The machine is durable. If the engine is defective, it is detached from the machine and replaced. Otherwise, it belongs to the disposal of electrical appliances.

POWDER DISPOSAL: The small amounts of powder and stone dust that you sometimes have left over (every 24 hours) is hardly worth keeping for re-use. Therefore we recommend that you store this, e.g. in a (cut open) milk carton and at some stage when enough has been collected and the water has evaporated or been poured out you can dispose of it (in Germany: household waste). If the use differs from the above, the the appropriate code is selected by the user (Regulations of the respective countries).

We wish you a lot of fun and success!

Yours H+B Team

Warnings:

- Read the operating instructions carefully and observe all safety instructions! Check that the information on the label matches your power supply. The machine / equipment must not be exposed to the weather or stand in a damp room and must not stand/run with flammable liquids or gases.
- Do not place the device and cable on heat sources (e.g. stove, heater).
- Unplug the power outlet when the machine is not in use
- If the machine is "moving", please check whether the threaded rod is firmly on the upper part of the machine with the machine switched off and the plug pulled out (see note a little above) Otherwise, choose a better parking space.
- Very important: The container must be firmly screwed for the operation and must never rotate on the machine!

- If it smells burnt, immediately turn OFF the machine and unplug it from the socket. Determine if the smell comes from this machine or if it is due to the socket. Have it checked by a specialist (electrician).
- Do not use multiple sockets.
- Do not use extension cables.
- Plug into grounded socket only.
- Only pull the plug out of the socket with dry hands or plug the plug into the socket!

- Do not pull the machine on the cable.
- Do not use the machine if the power cord or plug is damaged, the machine is not working properly, has fallen or is otherwise damaged.
- We recommend a DI personal protection adapter plug, which switches off the current in fractions of milliseconds in the event of a short circuit, for example.
- Keep the machine clean. Do not clean the machine in a water bath.
- When cleaning the container, remove the container.
- Never try to open/remove the lid while the machine is running.
- In the presence of children, always keep children under supervision.
- Use the machine out of the reach of pets.
- Do not run the machine in a closed cabinet/box. Don't put anything over it.
- Do not place the machine in a tub/box.
- The engine needs cooling and the upper part of the machine must be able to vibrate freely.
- Do not move or carry back and forth while running.
- Place the machine only on a straight, solid floor or table.
- In case of unknown / disturbing noises that you cannot assign: Switch off the machine and use it again only after clarification.
- Use only suitable tools and do not make do with unsuitable or sharp aids. These could cause accidents or injuries.

Certificate of Conformity



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Germany

Grinding-/Polishingmachine Spirator-3,5 Spi - 3,5

AC 230V, 50Hz, 55 Watts, Shaded-pole motor, 2600 rpm,

65 db when filled with 4,5kg (semi-) precious stones.

Max. payload 4,5kg

The machine is herewith declared to conform with the following guidelines

Machine guidelines 2006/42/EU

Measured value of the protective resistance - 0,1 Ohm (limit value 0,3 Ohm)

Kirschweiler, 2018

Kitty Homberg, Owner

A handwritten signature in blue ink, appearing to read 'Kitty Homberg', with a stylized flourish at the end.