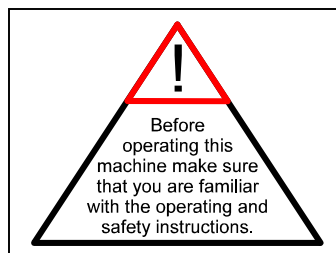


MODEL EHR 20 S MIXER



OPERATING MANUAL



Technical Characteristics

rated voltage:	120 VAC
rated power input:	1100 W
frequency:	40 – 60 Hz
load speed:	580 rpm
maximum basket diameter:	140 mm
protection class:	II
degree of protection:	IP 20
interference suppression:	as per DIN VDE 0875, EN 55014
collet	M 14

The conformity with the 73/23/EEC and 89/336/EEC guidelines is indicated by the CE symbol.

All rights of changes due to technical development reserved.

Safety Instructions



1. Safe work with the machine is only possible if you read this operating instruction completely and strictly follow the instructions contained herein.
2. When drilling through ceilings or walls, make sure you will not cut through electric mains, gas or water pipes. Use metal detection systems if needed.
3. Check the machine, cable and plug prior to every use of the tool. Have damages eliminated only by an authorised specialist. Take care that the tool is switched off when the plug is inserted into a power receptacle.
4. The machine must neither be wet, nor be used in humid ambient conditions.

5. Be careful for long hairs. Work only with tight fitted clothes.
6. Extension cords and plugs must be approved for works on the exterior.
7. For reasons of safety, do not work without the additional handle.
8. Always secure the working piece by means of fixtures.
9. Lead the power cable off the machines to the back.
10. During use, hold the machine always with both hands and maintain a safe stance.
11. Always consider the reaction moment of the tool, especially when the tool blocks.
12. Before all works at the machine, make sure that the plug is off the mains socket.
13. People under 16 are not allowed to use the machine.

For further safety instructions, refer to the enclosure.

Protection

Wrong handling can result in damages. Hence, the following instruction should be observed:
Use only EIBENSTOCK – paddles with M 14 internal thread.
Do not allow blocking of the tool due to overload.

Use only original parts from Eibenstock.

Putting into Operation

The operating voltage must correspond with that indicated on identification plate.

Switching on and off

Short-Time Operation

switching-on:	press the on/off switch
switching-off:	release the on/off switch

Permanent Operation

switching-on:	press the on/off switch and, keeping it pressed, engage the lock button
switching-off:	press the on/off switch and let it go off again

SAFETY INSTRUCTIONS

Caution! When using power tools, the following basic safety measures are to be observed to protect against electrical shock, personal injury and risk of fire.

Read and observe these instructions before using the equipment:

- 1. Maintain order in your working area.** Disorder in the working area increases the risk of an accident.
- 2. Take conditions in your area into consideration.** Never expose your power tools to rain. Do not use power tools in damp or wet surroundings. Provide good lighting. Do not use power tools in the vicinity of combustible fluids or gases.
- 3. Protect yourself against electrical shock.** Avoid body contact with grounded objects such as pipes, radiators, stoves refrigerators.
- 4. Keep children away.** Do not let other persons handle the tool or the cable. Keep them away from your working area.
- 5. Store your tools in a safe place.** Tools not in use should be stored in a dry, locked area which is inaccessible to children.
- 6. Do not overload your tools.** Tools operate better and safer in the performance range for which they are intended.
- 7. Use the right tool.** Do not use small tools or attachments for heavy work. Do not use tools for purposes and tasks for which they were not intended; for example, do not use a hand circle saw to cut down trees or cut off branches.
- 8. Wear suitable work clothes.** Do not wear loose fitting clothing or jewelry. They can get entangled in moving parts. For outdoor work, rubber gloves and nonskid footwear are recommended. Long hair should be protected with a hair net or cap.
- 9. Use safety glasses.** Also use breathing mask for work which generates dust.
- 10. Do not abuse the power cable.** Do not carry the tool by the power cable and do not use the cable to pull the plug out of the power receptacle. Protect the cable from heat, oil and sharp edges.
- 11. Secure the work piece.** Use clamps or a vise to hold work piece. It is safer than using your hand and it frees both hands for operating the tool.

- 12. Do not overreach your work area.** Avoid abnormal body postures. Maintain a safe stance and keep your balance at all times.
- 13. Maintain your tools with care.** Keep your tools clean and sharp for efficient and safe work. Follow the maintenance regulations and instructions for the changing of tools. Check the plug and cable regularly and in case of damage, have repaired by a qualified serviceman. Also inspect extension cables regularly and replace if damaged. Keep the handle dry and free of oil or grease.
- 14. Pull the power plug.** When not in use, before servicing and when changing the tool, i.e. paddles, etc.
- 15. Do not forget to remove key.** Check before switching on that the key and adjustment tools are removed.
- 16. Avoid Unintentional switch-on.** Do not carry tools which are connected to power with your finger on the power switch. Check that the switch is turned off before connecting the power cable.
- 17. Outdoors use extension cables.** When working outdoors. Use only extension cables which are intended for such use and marked accordingly.
- 18. Stay alert.** Keep your eyes on your work. Use common sense. Do not operate tools when you have problems with concentration.
- 19. Check your equipment for damage.** Before further use of a tool, check carefully the protection devices or lightly damaged parts for proper operation and performance of their intended functions. Check movable parts for proper function, whether there is binding or for damaged parts. All parts must be correctly mounted and meet all conditions necessary to ensure proper operation of the equipment.

Damaged protection devices and parts should be repaired or replaced by an authorized service center unless otherwise stated in the operating instructions. Damaged switches must be replaced by an authorized service center. Do not use any tool which cannot be turned on and off with the switch.
- 20. Warning!!!** For your safety, use only accessories and attachments which are described in the operating instructions or are provided or recommended by the tool manufacturer. The use of tools other than those described in the operating instructions or in the catalog of recommended tool inserts or accessories can result in a risk of personal injury.
- 21. Repair only by electrical specialists.** This power tool is in accordance with the relevant safety regulations. Only an electrical specialist must perform repairs, otherwise accidents can result.

Working Instructions

Mixers have a M 14 – internal female thread. Take always care for cleanliness of the thread and the rim. Please hold up with a jaw wrench 22 to remove the paddle.

Care and Maintenance

Due to its design, the machine needs a minimum of care and maintenance.

Nevertheless, you should always observe the following:

- Keep the electric tool clean.
- Do not allow any foreign matters to pass inside the tool.
- After approx. 300 hours of operation, the carbon brushes have to be checked by a specialist. If they are shorter than 5 mm, they must be replaced by new, original brushes. They must be run in by a 20-min idle run of the tool. Also the condition of the commutator must be checked. In case of irregular colouring of the individual blades and surface crashes, send the tool to a service workshop.
- Cleaning of gearbox and motor is needed after approx. 500 hours of operation. Since this is the time of a general check of all components, send the tool to a service workshop.

Environmental Protection



Raw Material Recycling instead of Waste Disposal

In order to avoid damages on transport, the tool has to come in a stable packing. Packing as well as unit and accessories are made of recyclable materials and can be disposed accordingly. Plastic components are marked; this enables environmentally friendly and differentiated removal through the available collecting facilities.

Noise Emission

The indication of noise emission figures is basing on DIN 45 649, part 2, DIN 45 635, part 21, and DIN EN 27 574 (ISO 7574).

- noise level (L_{WAc}) (94+3) dB re 1 pW
working place-related emission figure (L_{pA}) 84 dB
for idle run as per DIN 45635 - 21 - KL 2

- noise level (L_{WA}) 88 dB re 1 pW
working place-related emission figure (L_{pA} , cyc) 79 dB
for substitute run with load (without workpiece machining) as per DIN 45635

Warranty

Tools from Eibenstock are covered by a warranty according to the legal and national regulations (to be verified by invoice or delivery note).

Damages caused by natural wear, overload and incorrect use are excluded from warranty. Only damages in the result of material and manufacturing faults will be eliminated free of charge, either by replacement or by repair.

Complaints will be recognised only when the tool was transferred in assembled condition to the supplier or one of Eibenstock's authorised service workshops.