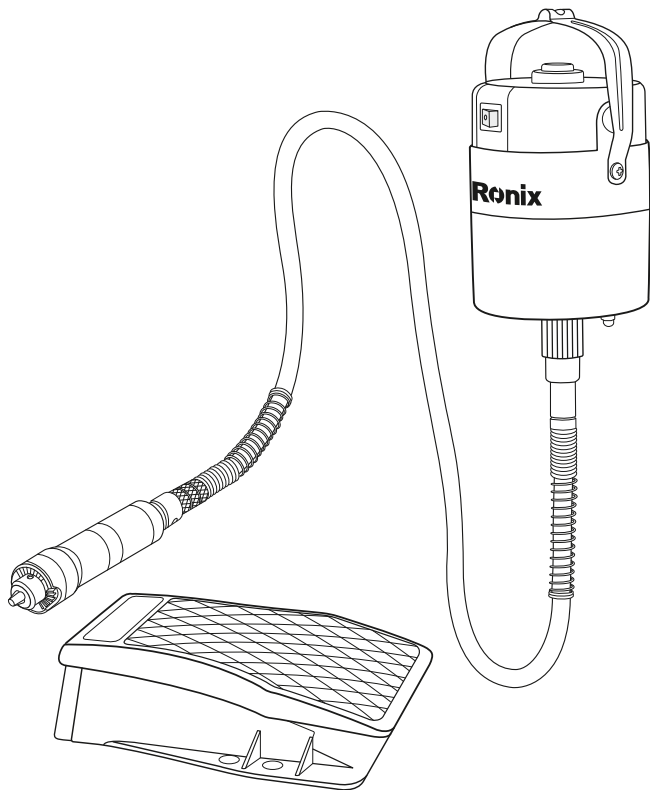


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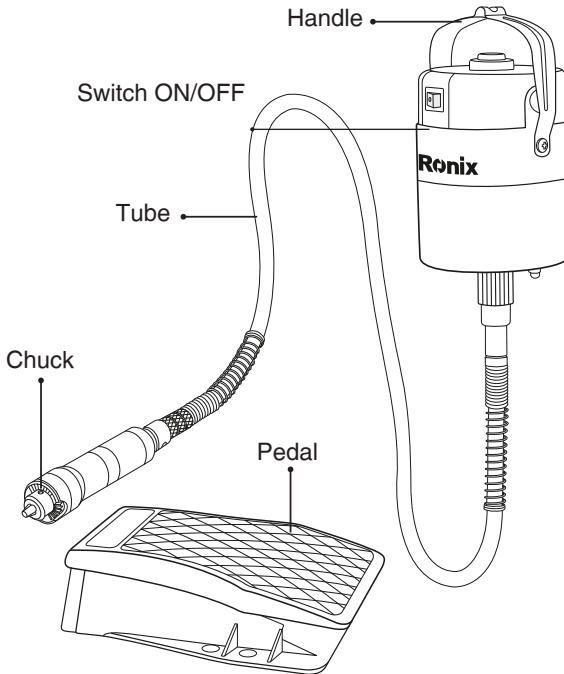
FLEXIBLE SHAFT HANGING MOTOR 3451



SPECIFICATIONS

Model	3451
Power	300W
Voltage	220-240V
frequency	50-60Hz
Variable Speed	0-21000RPM
Weight	3.4Kg
Supplied in	Ronix color box
Includes	Electrical foot switch

PARTS LIST



GENERAL SAFETY RULES

WARNING!

Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/ or serious personal injury.

■ **WORK AREA**

- 1) Keep your work area clean and well lit. cluttered benches and dark areas invite accidents.
- 2) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gasses, or dust. Power tools create sparks which may ignite the dust or fumes.
- 3) Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

ELECTRICAL SAFETY

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a

residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

PERSONAL SAFETY

- 1) Stay alert, watch what you are doing, and use common sense when operating a power tool. do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- 2) Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- 3) Avoid accidental starting. Be sure switch is in the locked or off position. Carrying tools with your finger on the switch invites accidents.
- 4) Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- 5) Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enable better control of the tool in unexpected situations.
- 6) Use safety equipment. Wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

TOOL USE AND CARE

- 1) Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.
- 2) Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- 3) Do not use tool if switch does not turn it on or off. A tool that cannot be controlled with the switch is dangerous and must be repaired.

- 4) Place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- 5) Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- 6) Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edge are less likely to bind and are easier to control.
- 7) Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
- 8) Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may create a risk for injury when used on another tool.

SERVICE

- 1) Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel may result in a risk of injury.
- 2) When servicing a tool, use only identical replacement parts. Follow instructions in the maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of shock injury.

SPECIFIC SAFETY INSTRUCTIONS

When spare part is changed, power tool is switched off.

Rubber hammer is used to change chuck.

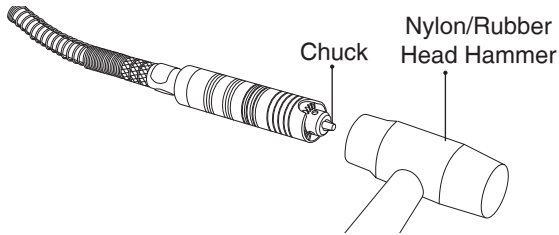
Twisted tube impacts machine operation.

User needs to prevent tube from bending over 90 degrees

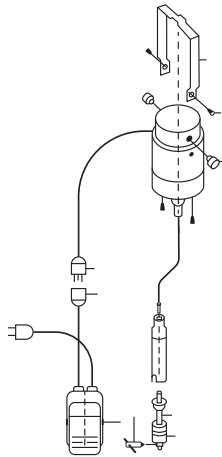
Do not put accessories around machine.

POWER TOOL ASSEMBLY

Tube of flexible Shaft Hanging Motor is assembled and placed in box. You can use to plastic hammer to amount chuck like as below picture.



You can assemble tool like schematic pic as below



If you find tool heated in order to use constantly, there is no hazard but your hand burns or scalds in contact with tool.

It is very hazardous to put tool 1 meter aside places potential for gas leaking.

You need to prevent from using tool for other unmentioned purposes.

Tool operation is changed according to voltage tolerance.

Tool is taken out of outlet, when it is not used.

INSTRUCTION BEFORE USE

Hang tool over a proper place.

Make sure tube is correctly connected to tool and be careful tube is not bended more than 90 degrees during working.

Insert plug correctly in outlet.

Make sure motor, tube and chuck are vibrating.

Use chuck spanner to change chuck series.

-To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by professional service centers, always using our replacement parts.

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