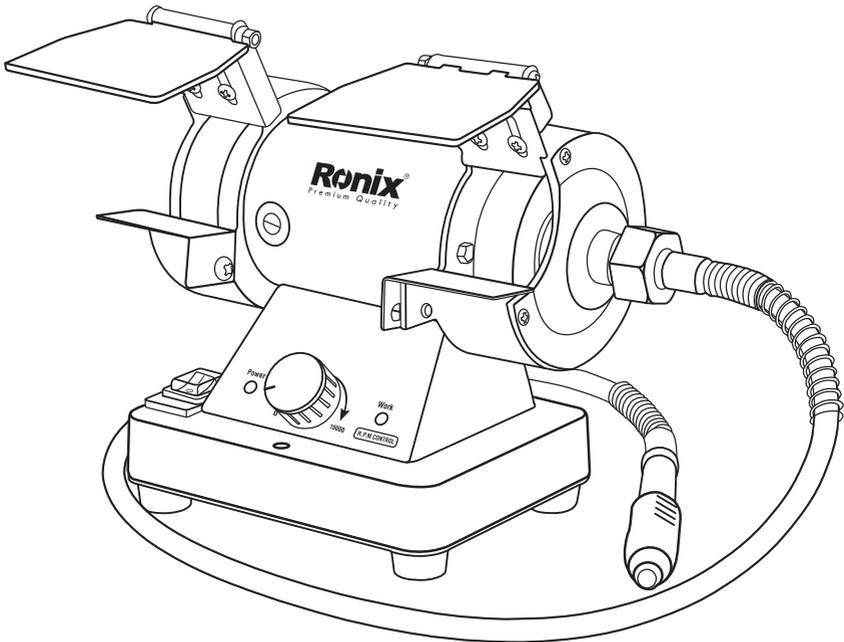


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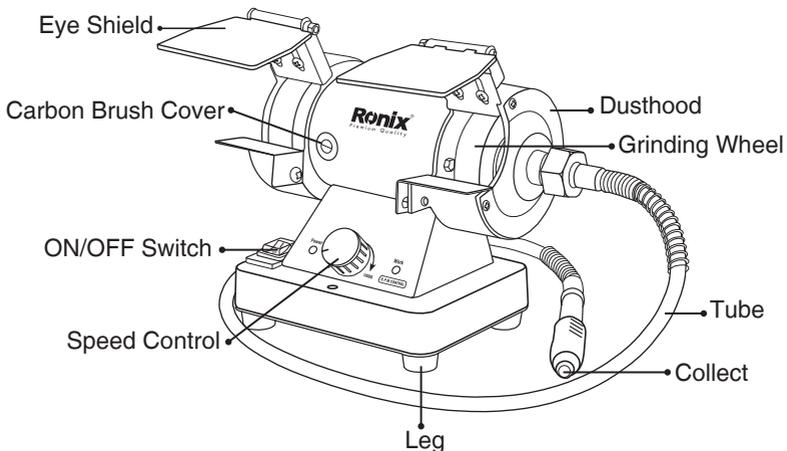
## MINI BENCH GRINDER WITH FLEXIBLE SHAFT 3575



## TECHNICAL SPECIFICATION

Model	3575
Power	120W
No load RPM	0-10000RPM
Voltage	220-240V
Frequency	50-60Hz
Line Cord	5 Feet
Grinding Wheel	1-3×3/4 inch Grinding Stone 1-3×3/4 inch Fiber Wheel
Arbor	0.39 inches (10mm) Diameter
Flex Shaft	31 inches Long
Flex Shaft Collect	1/8 inch Diameter
Flex Shaft Bit	1/8 inch Mounting Stone
Weight	2.4Kg
Accessories	Flexibel shaft , Carbon Brush

## PART LIST





Before using this bench grinder, please carefully read through these instructions. Ensure that you know how the machine works, and how it should be operated. Maintain the machine in accordance with the instructions, and make certain that the machine works correctly, please store this instruction and other enclosed documents with the machine together.

## **APPLICATION**

This machine is applicable for sharpening cutting tools such as tool bits, drill bits, chisels, and gouges. Alternatively, it may be used to roughly shape metal prior to welding or fitting.

## **GENERAL POWER TOOL SAFETY WARNINGS**



### **WARNING!**

- Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
- Save all warnings and instructions for future reference.
- The term “power tool” in the warnings refers to your mains-operated (corded) power tool.

### **■ WORK AREA SAFETY**

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders 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

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Avoid accidental starting. Ensure the switch is in the off position before plugging in.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 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.

### **■ POWER TOOL USE AND CARE**

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Use the power tool accessories in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

### **ADDITIONAL SAFETY RULES FOR BENCH GRINDER**

- 1- Always wear eye protection that complies with a recognized standard (CSA or ANSI).
- 2- Wear a mask or respirator when dust is generated.
- 3- Keep bystanders out of the work area while operating the tool.
- 4- Always ensure that the work area is clear of any flammable materials,

liquids or gasses, because the use of this tool may create sparks.

5- Tighten grinding wheel lock nuts, securing bolts and all clamps and guards.

6- During each start-up, stand to one side of the grinder and switch it on. Let the grinder operate at full speed for approximately one minute so that any undetected flaws or cracks will become apparent.

7- Keep guards in place and working properly.

8- Keep hands clear of grinding wheels.

9- Never reach behind or beneath the grinding wheels.

10- Unplug from power supply before adjusting wheels. After the tool is switched off. Always allow wheels to stop before adjusting or servicing.

11- To avoid electric shock, do not use in damp conditions or expose to rain.

12- When fitting a new grinding wheel, always check the new wheel for damage, such as flaws or cracks. If the wheel appears satisfactory, fit it the grinder.

13- Use only accessories that are recommended by the manufacturer for your model.

14- Do not attempt to cut anything with the grinding wheel.

15- Any damage and abnormal happen, please stop to use immediately and disconnect it, ask authorized centers to check and repair.

16- Don't use other parts and accessories which not mentioned in the manual otherwise it may cause injuries!

17- Special attention to voltage: Before connecting the power tool, please make sure the rated voltage on the tool can match the power supply, otherwise the power tool may be damaged and cause injuries.

18- Don't wipe plastic part with solvent: Solvent such as gasoline, thinner, alcohol etc. these kind of chemical material, are not allowed to use, water or soap are recommended!

19- In case of damage, the replacement of the plug or the supply cord shall always be carried out by authorized centers.

20- Make sure the grinder wheels are of the proper speed (RPM) rating for the grinder.

21-Frequently quench the workpiece in water to prevent overheating; be careful not to get water on the bench grinder.

22- Use the tools rest to steady the work piece. If the tools rest is not used. The torque of the spinning grinding wheel may pull the workpiece from your hands.

23- Do not use aluminum oxide wheels when grinding nonferrous metals such as aluminum and brass. Use silicon carbide wheels for nonferrous metals.

24- When buffing material. Always hold the material on the lower side of the buffing wheel. Always keep fingers clear of the grinding wheel and the tools rest.

### **RESIDUAL RISKS**

Even when the power tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the power tool's construction and design:

- 1- Damage to lungs if an effective dust mask is not worn.
- 2- Damage to hearing if effective hearing protection is not worn.
- 3- Damages to health resulting from vibration emission if the power tool is being used over longer period of time or not adequately managed and properly maintained.

### **NOTE:**

performance of this tools may vary depending on variations in local line voltage. Extension cord usage may also affect tool performance.

### **WARNING!**

The warnings cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

## **OPERATION INSTRUCTION / PRIOR TO OPERATION**



Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up use of this products.

### **1- Power source**

Ensure that the power source to be utilized conforms to the power requirements which specified on the name plate of the grinder.

### **2- Power switch**

Ensure that the power switch is in the position of OFF. If the plug is connected to power receptacle while the power switch is in ON position, the bench grinder will start operation immediately, which can cause serious accident!

### **3- Extension cord**

If an extension cord is required. It must be of the proper size and type to supply the correct current to the tool without heating up. Otherwise the extension cord could melt and catch fire, or cause electrical damage to the tool. This tool requires use of an extension cord 0 to 10 amps capability (up to 50 feet) with wire size rated at 18 AWG. Longer extension cords require larger size wire. If you are using the tool outdoors, use an extension cord rated for outdoor use.

## **OPERATION**

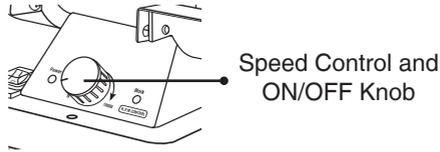
### **TURNING THE BENCH GRINDER ON AND OFF**

1-Insert the Plug into electrical outlet.

2- Turn the speed control knob clockwise to turn the motor ON and adjust its speed.

3- To turn OFF, turn the knob counterclockwise until it clicks.

4- Never leave the bench grinder running unattended. Always turn off the tool when not in use.



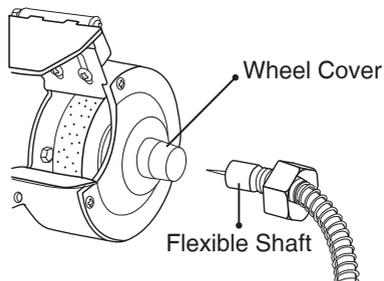
## USING THE GRINDER

**Warning:** The grinding wheel can fly apart and cause injury. Grinding wheels must always be checked for cracks or imperfections. This is done with the ring test. Tap the wheel gently near the outer rim with the handle of a screwdriver. You should hear a clear bell-like ring. If a dull thud occurs, do not use the wheel. The wheel may be damaged and could come apart during operation.

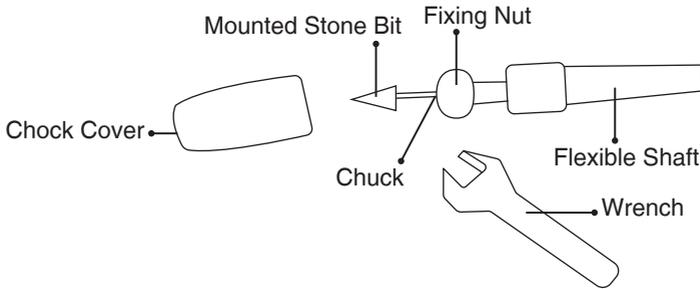
- 1- Always bring the workpiece into the wheel gently without jarring.
- 2- The workpiece will quickly become heated. Therefore, frequent quenching in water is required.
- 3- When grinding high speed steels such as drill and tool bits, avoid high temperature buildup as this can affect the temper of the steel.
- 4- For small workpieces such as drill bits or chisel, avoid applying pressure to the wheel at a high angle that could cause the workpiece to become lodged between the tool rest and the wheel.

## GRINDING WITH THE FLEX SHAFT

- 1- Secure the flexible shaft to the wheel cover.  
Align and insert the shaft. It can only go in one way.



- 2- Tighten the flexible shaft connector nut over the wheel cover.
- 3- Slip off the chuck cover.
- 4- Loosen the fixing nut with the wrench
- 5- Insert the mounted stone bit into the chuck and tighten fixing nut.



- 6- Slip the chuck cover over the chuck assembly.
- 7- Grasp the flexible shaft handle with one hand and turn the grinder on with the other hand.

Caution: Always wear ANSI approved safety glasses when grinding.

- 8- When finished, turn the grinder off and wait for it to stop before setting down the flexible shaft.

Please only use accessories and spare parts recommended by RONIX. If the tool get malfunction, please hand over the tool to RONIX dealer or appointed **RONIX SERVICE** maintenance station. Don't disassemble the tool by yourself or replace the parts supplied by others.



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