

BULUCUT-6

AUTOMATIC & MANUAL METALLOGRAPHIC SPECIMEN CUTTING MACHINE



OPERATIONAL MANUAL

CE

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CAUTIONS & SAFETY NOTE

Following instruction shall be followed to prevent from fire hazard, electric shock and injury :

Read carefully all the operation instructions.

Keep in mind the elementary knowledge of electrical appliances.

Abide by all the warnings and instructions either marked on the product or mentioned in the documents delivered with the machine

Should any discrepancy be found between the instructions and safety note, the safety note shall prevail .For more detail, please refer to the sales agency or aftermarket service.

Remove the power plug prior to clean the surface. Detergent or kerosene is forbidden .Wet rug is all right

Don't place the machine onto unstable table. Otherwise, serious injury may happen when falling down in case.

Nothing is allowed to put on the machine.

Don't overload the power socket in case of fire hazard or electric shock.

Don't try to dismantle the machine to prevent from electric shock. Only qualified maintenance technicians are allowed to repair the machine .You will be exposed to dangerous voltage or other danger once the cover is opened or removed.

Improper reassembling may result in future electric shock.

10. Remove the plug and call qualified technician in following cases:

The cable or plug is damaged or worn out.

The machine can't run in normal operation.

The machine falls down or the shell is damaged.

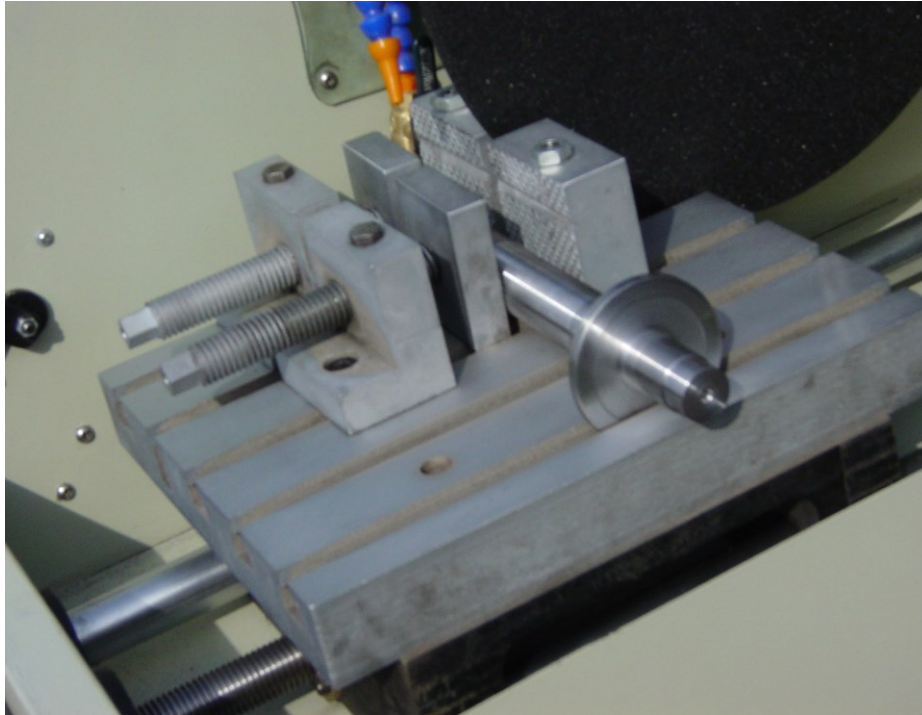
Sudden and obvious changes on the capability of the machine.

11. Only the parts mentioned in this manual are allowed to adjust.

12. Keep the manual in file.

1. Descriptions

The cutting machine BULUCUT-6 is composed of the frame, electric box, cutting chamber, motor, cooling system, cutting abrasive chip, etc. It not only can cut those round bars under the diameter of 80mm, but also can cut rectangular specimens ranging within 80mm height to 200mm depth .The built –in cooling system could help to prevent burning the tissue due to overheating during the cutting process. The cutting speed is adjustable depending on different specimens, resulting in improving the quality of specimens .*It can be operated either automatically or manually* .Its large –capacity cutting chamber facilitates its operation .It is one of the specimen-making equipment’s necessary for metallographic test in colleges and factories.



Super –large cutting chamber

2. Technical parameter

- 1) Power: 220V, 50Hz
- 2) Rotating speed of abrasive disc: 2100 rpm
- 3) Specification of abrasive disc: 350mm×2.5mm×32mm
- 4) Max. Cutting diameter: Φ 80mm
- 5) Max .cutting capacity: 80mm×200mm
- 6) Motor: 2.2KW
- 7) Dimensions of cutting table: 310mm×280mm

3. Method 1:

Cutting capability

- a. Tubing material Φ 80mm, thick 6mm
- b. Stick material Φ 40mm
- c. Angle steel 80×80mm
- d. Channel steel 80mm

Choose the appropriate amount of feed according to the different materials and diameters

Choose the appropriate cutting disc according to the different materials

4. Method 2: Automatic cutting specimen

- 1) Fix the specimen between the anvils of cutting chamber to pinching screw on the “L” tongs and clamp the specimen with hand, and retighten the screw.
- 2) Select cutting speed. Turn on the power switch and choose right speed by pressing the cutting speed setting button until the LCD indicates the selected speed.
- 3) Press “auto/manual” button to choose auto mode.
- 4) Rotate the hand-wheel of cutting chamber, the abrasive disc contact the specimen, but not let the disc contact the specimen.
- 5) Press the “start” button to start the motor, then the machine will cut the specimen automatically. Press the “pump” button to cool down the specimen during the cutting process.
- 6) After cutting is completed, press the “withdraw” button, then the cutting motor stops cutting and step motor is actuated to withdraw the tools.
- 7) In cases the operator is not present in the process of cutting, it will stop automatically and withdraw the tools at the end of cutting operation.

5. Method 3: Cutting the specimen manually

- 1) Press “power” button to turn on the power.
- 2) Press the “auto/manual” button to select manual mode.
- 3) Fix the specimen as per Article 1 of Method 2.
- 4) Press “start” button to start up cut-off motor.
- 5) Press the “pump” button to start up coolant.
- 6) Rotate left – handed wheel to start cutting manually
- 7) At the end of cutting operation, withdraw the abrasive disc to original position.

6. Maintenance and safety notes:

- 1) The power of this machine is of three phases and four cords plug. The power socket must be grounded.
- 2) The water pipe should be free from leakage and block out.
- 3) Clean and maintain the machine in time at the end of shift.
- 4) Should any abnormal noise be heard, stop the machine immediately
- 5) Must install reliably meets the grounding

Cautions:

Power must be turned off prior to specimen clamping.

Power socket in connection with the machine must have zero line.

The operator must not leave the machine when cutting the specimens. Should any abnormal noise be heard, stop the machine immediately.