



苏州特鲁利电子材料有限公司
Suzhou Trojan Industry Material Co., Ltd.

CT 2300 Precision Cutting Machine

Manual Operation



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1. Instruction

CT 2300 precision cutting machine is specialized in small parts precision cutting. It can cut PCB board and individual electronic parts, or small samples. Saw blade is widely used, with the Trojan ultra-thin diamond cutting blade can make better effect.

Note:

If use diameter 180 diamond blade, samples should be less than 25mm

If use diameter 200 diamond blade, samples should be less than 35mm

If use diameter 230 diamond blade, samples should be less than 50mm

2. Technical parameters

| Item | Spec. | Note |
|------------------------------|---------------------------------|-----------|
| Blade(12.7mm inner diameter) | Diameter 200mm or 230mm | Max 250mm |
| Speed | 500-3000 r/min | |
| Blade Move | 120mm | |
| Water tank | Max 2.5L | |
| Voltage | Single Phase 110/ 220V, 50/60Hz | Custom |
| Motor Power | 400W | |
| Dimension | 485L x 455W x 330H mm | |
| Weight | 50kg | |

3. Machine



1. Start/stop button;
2. Speed control button, 500-3000rpm;
3. Electronic Screen, speed display;
4. Cutting Blade feed/rewind handwheel;
5. Main power socket and fuse;
6. Cutting operation platform
7. Safety induction switch, usage as below;

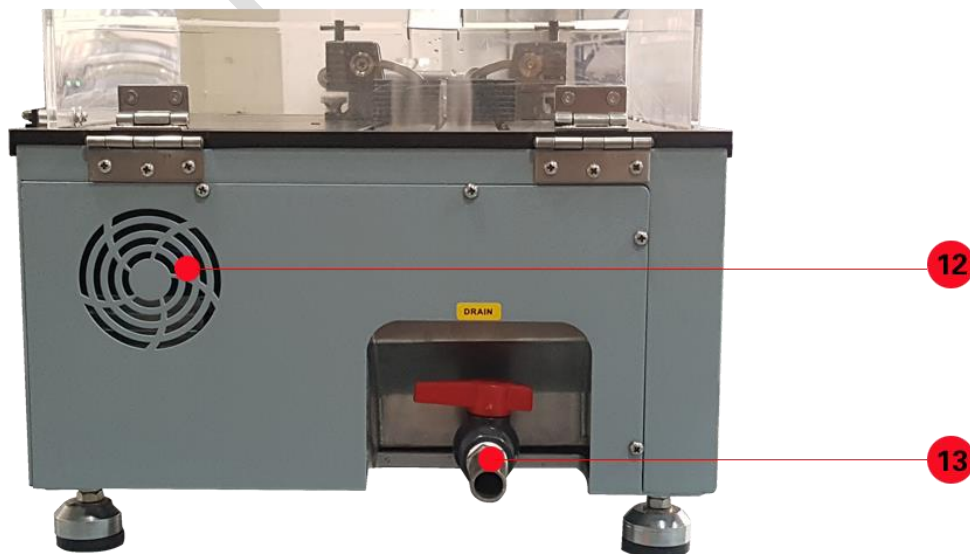
Safety induction switch

NOTE

1. When button is pressed, light will be on and samples can be cut when the protective cover is opened.
2. When button pops up, light goes off, and the sample cutting is stopped when the protective cover open.



8. Protective cover;
9. Water retaining cover;
10. Cutting off wheel;
11. Vertical clamping fixture;



12. Cooling fan;

13. Outlet and valve;



14. Clip flange;

15. Water tank;

4. Installation

4.1 Place the device on a flat surface and press the four bottom feet on the surface to prevent vibration.

4.2 Check spindle, cutting blade and flange are clean and wipe clean. Install the cutting piece and tighten it with an open wrench. Close the cover and shake the handwheel to see if the cutting piece moves smoothly.

4.3 Close the outlet valve. Lift working table and add cooling water to the tank. It is recommended to add anti-rust cutting fluid. Note that the cooling water should not be too full, it is about 15mm cutting blade can be in water.

4.4 Close the working table. Move the cutting piece to the last position of the machine and place the water cover.

4.5 Set the speed control button to the minimum. Push the start button, and the button

light will be on, slowly increasing the speed. See if the speed is normal.

4.6 Click the stop button. The button lights go out. Set the speed control button to the minimum. At this point, the installation is complete.

5. Operation

Two types of cutting:

Type 1: The sample is fixed and the cutting blade is moved to cut off the sample. Suitable for cutting off small workpieces and difficult to hold

Type 2: The cutting blade is fixed and the sample is driven to cut off. Suitable for cutting circuit board and other large work pieces.

Type 1 operation details:

- 1) Place the sample on the working table, aim at the position to be cut, and press the workpiece with vertical clamping fixture;
- 2) Move the Angle clamping device backwards and forwards, and use the Angle clamping device to hold the sample.
- 3) Close protective cover. Click the start button to rotate the cutting piece. Adjust to a proper speed.
- 4) Shake the handwheel so that the cutting blade is slowly close to the sample. Until the sample is cut off.

Type 2 operation details:

- 1) Put on the water protective cover
- 2) click the start button to rotate the cutting blade. Adjust to a proper speed
- 3) press the sample on the working table with both hands and push forward slowly, maintaining a parallel thrust during pushing until the sample is cut off.

Note:

When choosing type 1 cutting, the water shield should be removed to prevent the cutting blade from cutting into the water shield when moving;

At the end of each cutting, set the speed to zero, in case the next time start up and the protective cover is not put on, the water from the rotating cutting blade will splash on the operator.

The cutting piece should be close to the sample slowly in order to prevent the cutting speed from being too fast so that the cutting blade is clamped or the cutting piece is pressed out of shape.

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