

Mikrosize®

iCut-30P Low Speed Precision Cutting Machine



Contact us

Mikrosize Precision Instrument Co.,Ltd

A-4035 RuiFeng Business Expo, Wuhu City, China , 241000.

Web: www.mikrosize.com

Email: mikrosize@mikrosize.com



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Product Features and Application

Product Features

- Use ultra-thin 0.4 mm thick diamond cutting discs;
- This equipment is equipped with a variety of clamps, which can well clamp samples of various shapes and structures;
- Accurately adjust the feed speed of the processed object through gravity;
- Equipped with limit switches, unattended processing can be achieved;
- Use sintered diamond cut-off wheel, suitable for precise cutting of various hard materials such as glass, circuit boards, rocks, etc.

Product Application

- Material science research
Low-speed cutting machines can be used to prepare material samples for metallographic analysis, scanning electron microscopy observation, and various mechanical property tests;
- Geological research
Low-speed precision cutting machines can meet the extremely high precision and minimal material damage required for rock and mineral samples;
- Electronics and semiconductor industries
Low-speed precision cutting machines can provide smooth, fine cutting surfaces to meet the processing requirements of ceramics and certain types of glass;
- Composite material processing
Low-speed precision cutting machines can accurately cut composite materials without destroying the interface between the reinforcing fibers and the matrix, providing key samples for material performance testing.



Instrument Interface



1. Display screen

2. Buttons

3. Protective cover



1. Display screen: state: current state of the device; speed: speed set by the device
It will run at the set speed after startup. **2. Speed increase button**
3. Speed decrease button **4. Stop button** **5. Start button**

Instrument Appearance



1. Clamp 2. Cutting disc 3. Rocker arm 4. Horizontal knob and ruler
5. Waste box 6. Anchor screw



Screw Positioning Micrometer

The thickness of the cut sample can be quantitatively controlled by adjusting the lateral knob, and it can also be used to adjust the position of the sample.

Instrument Appearance



Machine on the Back

1. Switch

2. Power socket



Technical Specification

Product Name	Low Speed Precision Cutting Machine
Model	iCut-30P
Cutting Disc Diameter	Φ100*0.4*12.7mm
Travel Distance	25mm
Positioning Accuracy	0.01mm
Rotation Speed	0-600rpm
Max Cutting Diameter	Φ30
Power	50W
Voltage	220V
Machine Dimension	415*340*270mm
Net Weight	18.5KG
Gross Weight	33KG

Standard Delivery

Name	Qty	Specification	Picture
Machine Mainframe	1 set		
Wrench	1 pc	17-19mm	
Open-end Wrench	1 pc	20mm	
Fixture	3 pcs		
Diamond Cutting Disc	1 pc	100*12.7*0.4mm	
Counterweight	2 pcs		
Instruction Manual	1 copy		
Product Certificate	1 copy		
Warranty Card	1 copy		