

**Mikrosize®**

# **iCut-35M & iCut-50M**

## **Metallographic Abrasive Cutting Machine**



### **Contact us**

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# Product Features and Application

## Product Features

- The cutting disc adopts high-strength wear-resistant reinforced grinding wheel, which has good cutting effect;
- The equipment has simple structure and is easy to operate;
- The machine is equipped with cooling equipment to avoid burning the material structure due to overheating during the cutting process;
- The cutting range (maximum cutting section 50×50mm) is larger than that of similar products;
- Reasonable structure, with protective cover to prevent splashing of coolant and breaking of grinding wheel to injure people.

## Product Application

- Metal processing field

It can be used to cut various metal materials such as iron pipes, steel pipes, aluminum alloys, etc.

- Industrial manufacturing and quality control

It can be used to prepare metallographic samples of various mechanical parts, helping engineers analyze the performance and reliability of parts, optimize material selection, and improve the performance and durability of parts.

- Product failure analysis

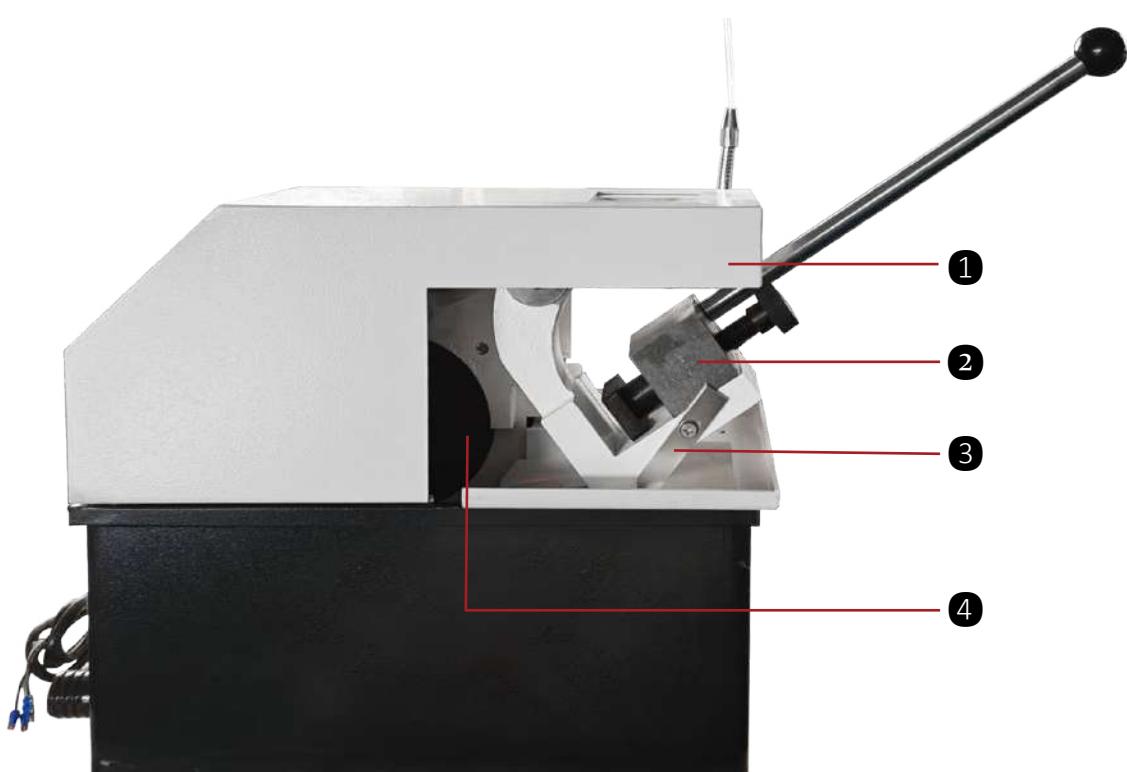
It can accurately cut out the sample area containing the fracture source, providing key evidence for diagnosing the cause of the problem. This is of great significance for improving product design and improving product reliability.



## Instrument Appearance



- 1. Switch
- 2. Cooling water valve: Users can adjust the cooling water flow through the valve as needed
- 3. Water spray pipe
- 4. Operating handle



- 1. Protective shell: prevent coolant splashing and grinding wheel breaking and injuring people;
- 2. Clamp;
- 3. Support plate: when cutting, please lift the handle first to disengage the support plate from the support point; after cutting, the support plate should support the saw frame at the support point, and the sample can be removed at this time;
- 4. Cutting disc: using grinding wheel cutting disc, good cutting effect and accurate precision.

## Instrument Appearance



**1. Outlet pipe interface**

**2. Inlet pipe interface**

**3. Power cord**

## Product Details



### Clamp

The clamp is screw-in fastened, compact, and this model can be selected for large-sized specimens, equipped with double-sided clamps for better clamping effect.



### Cooling

The cooling system is equipped with a valve that allows users to adjust the water flow, and the water spray pipe can rotate freely to ensure that the cooling water flow can be sprayed on the cutting part.



## Technical Specification

<b>Product Name</b>	Metallographic Abrasive Cutting Machine	
<b>Model</b>	iCut-35M	iCut-50M
<b>Cutting Capacity</b>	35mm	50mm
<b>Rotation Speed</b>	2800rpm	
<b>Motor Power</b>	1.1kw	2.2kw
<b>Input Voltage</b>	Three phase 380V、50HZ	
<b>Cutt-off Wheels</b>	250*2*32mm	300*2*32mm
<b>Machine Dimension</b>	375*445*355mm	
<b>Net Weight</b>	45KG	67KG
<b>Gross Weight</b>	53.7KG	77.25KG



## Standard Delivery

Name	Qty	Specification	Picture
Machine Mainframe	1 set		
Wrench	2 pcs	36mm, 46mm	
Inlet Pipe	1 pc		
Outlet Pipe	1 pc		
Cutt-off Wheels	2 pcs	iCut-35M: $\Phi 250\text{mm}$ iCut-50M: $\Phi 300\text{mm}$	
Instruction Manual	1 copy		
Product Certificate	1 copy		
Warranty Card	1 copy		