



iCut-80M & iCut-100M Manual Metallographic Abrasive Cutting Machine



Video



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Product Features and Application

Product Features

- The outer shell is made of stainless steel;
- Equipped with a large observation window;
- LED lighting is installed in the cutting room to achieve effective lighting of all areas of the entire cutting room; it increases the brightness and clarity of the workroom;
- Highly wear-resistant grinding wheel cutting discs are used, with neat cuts and good cutting effects;
- Equipped with multiple cooling water spray nozzles with adjustable directions to ensure effective cooling of the cutting part;
- Bilateral quick clamp.



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

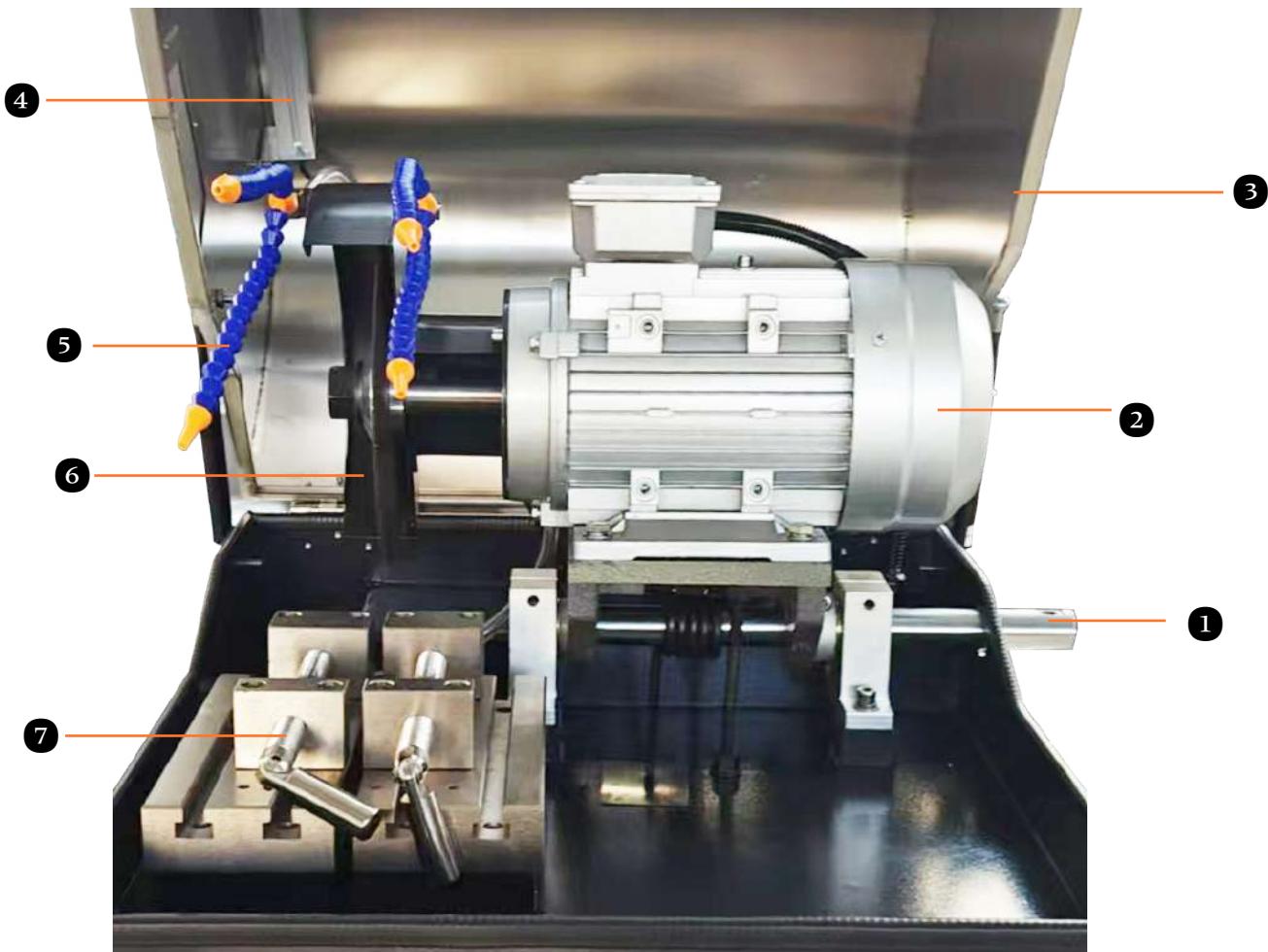
It can be used to prepare metallographic samples of various mechanical parts, helping engineers analyze the performance and reliability of parts, optimize material selection, and improve the performance and durability of parts.

- 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.



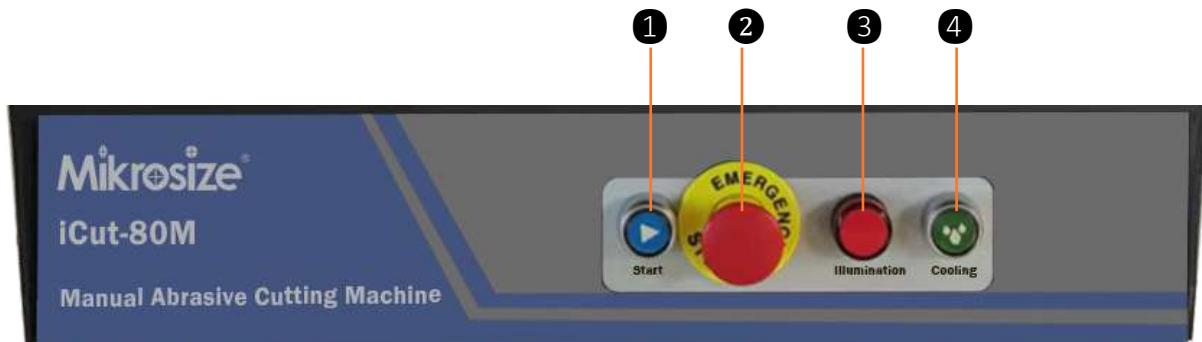
Instrument Appearance



1. Handle shaft
4. Light

2. Drive motor
5. Coolant spray port

3. Protective housing
6. Cut-off wheel
7. Clamp



1. Start button
2. Emergency stop button
3. Lighting button: Press this button to turn on or off the light
4. Cooling button: Press this button to turn on or off the coolant flow

Instrument Appearance



1. Closed-door Detection

2. Switch

3. Protective housing support rod



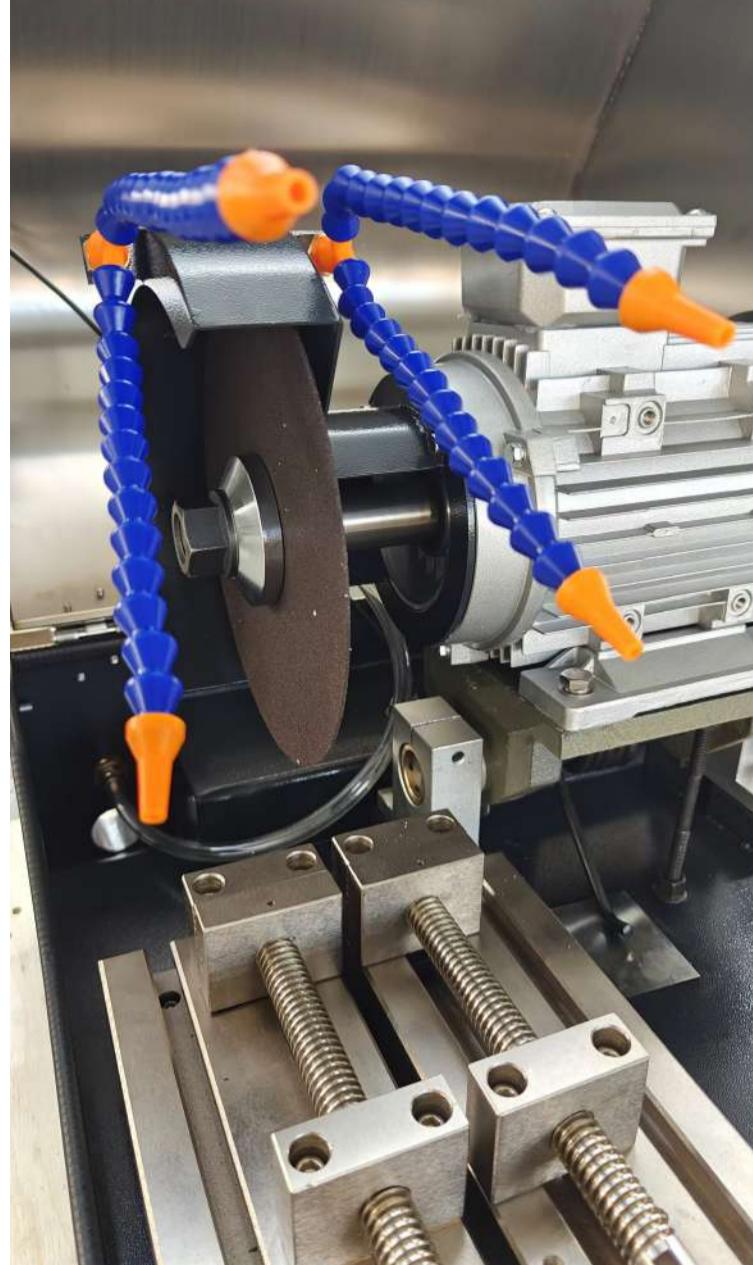
1. Inlet pipe port

2. Outlet pipe port

3. Water pump port

4. Power cord

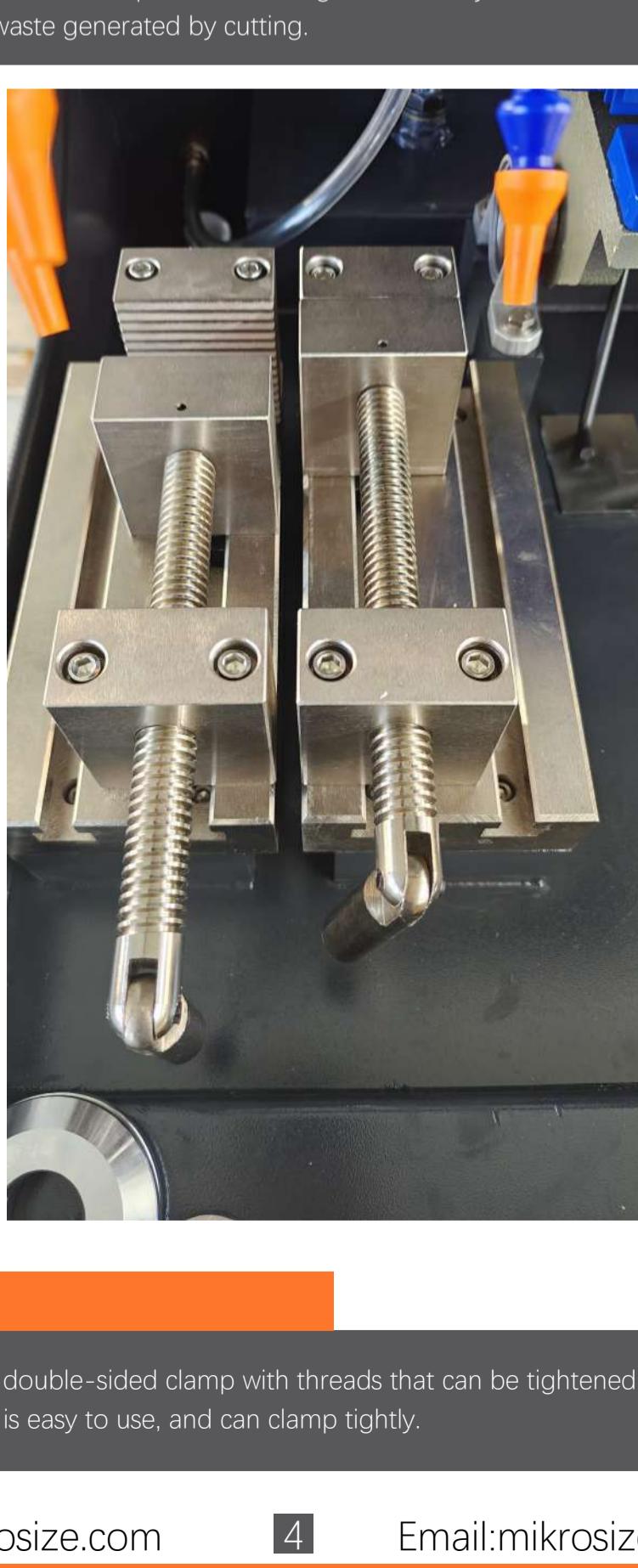
Product Details



Cut-off Wheel

This machine adopts a large-size grinding wheel cutting disc, which has high hardness and good wear resistance. It can process the workpiece with high precision and high quality. It can be applied to most metal materials, and the air cooling effect of the grinding wheel cutting disc can significantly avoid work. The phenomenon of surface heating and burning.

Equipped with multiple coolant nozzles around it, on the one hand it can significantly reduce the cutting temperature and prevent the workpiece from being deformed by heat, and on the other hand it can promptly remove the waste generated by cutting.



Clamp

This equipment uses a double-sided clamp with threads that can be tightened to clamp the sample. It has a simple structure, is easy to use, and can clamp tightly.

Product Details



Closed-door Detection

The right side of the equipment is equipped with a closed door detection to ensure that the protective shell is closed when the equipment is running, protecting the operator's safety.

Product Details



Lighting

LED lighting is installed in the cutting room, which can effectively illuminate the entire area of the cutting room; it increases the brightness and clarity in the studio, and the transparent observation window on the protective door can clearly see the situation in the cutting room.

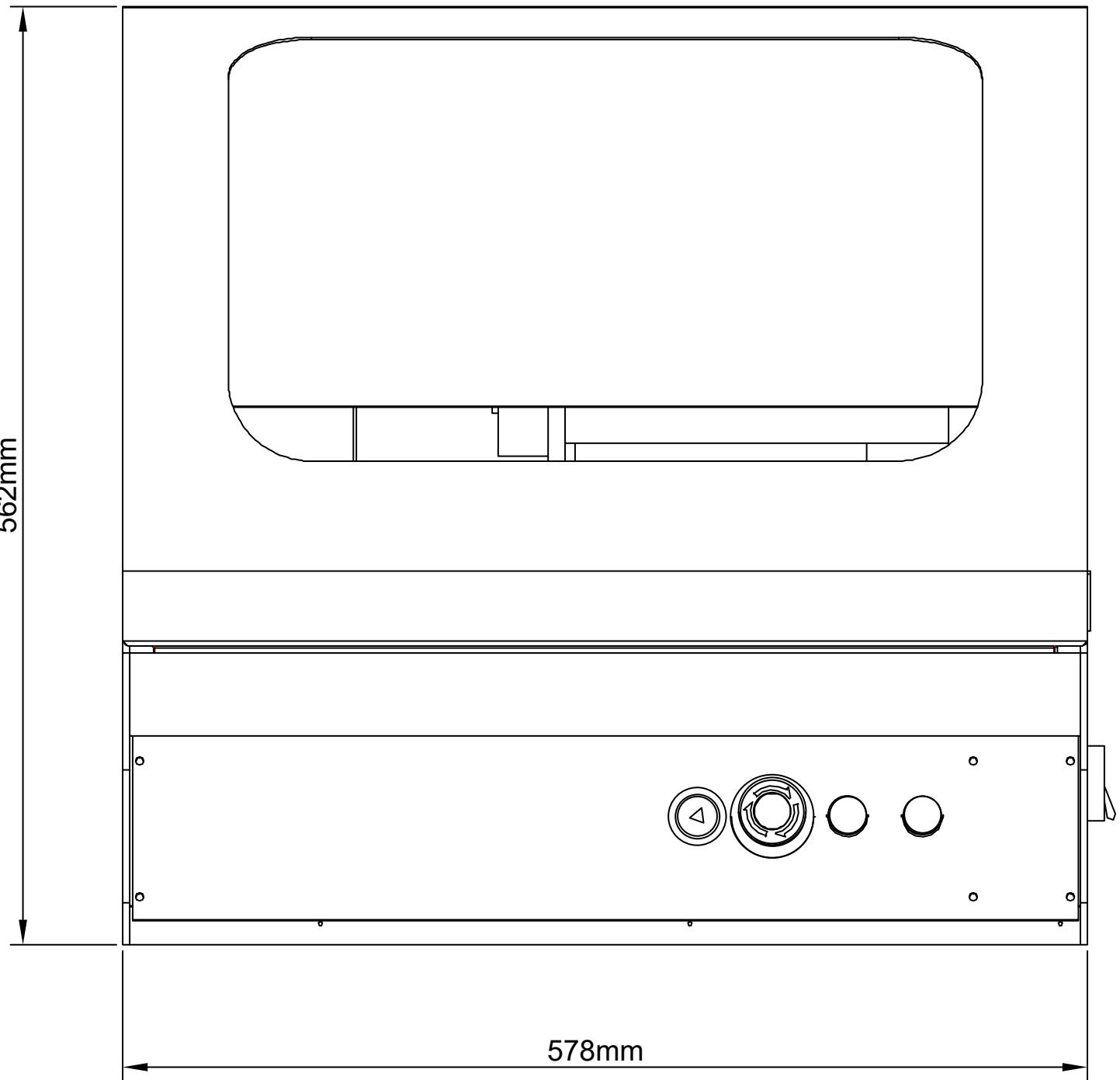


Water Tank

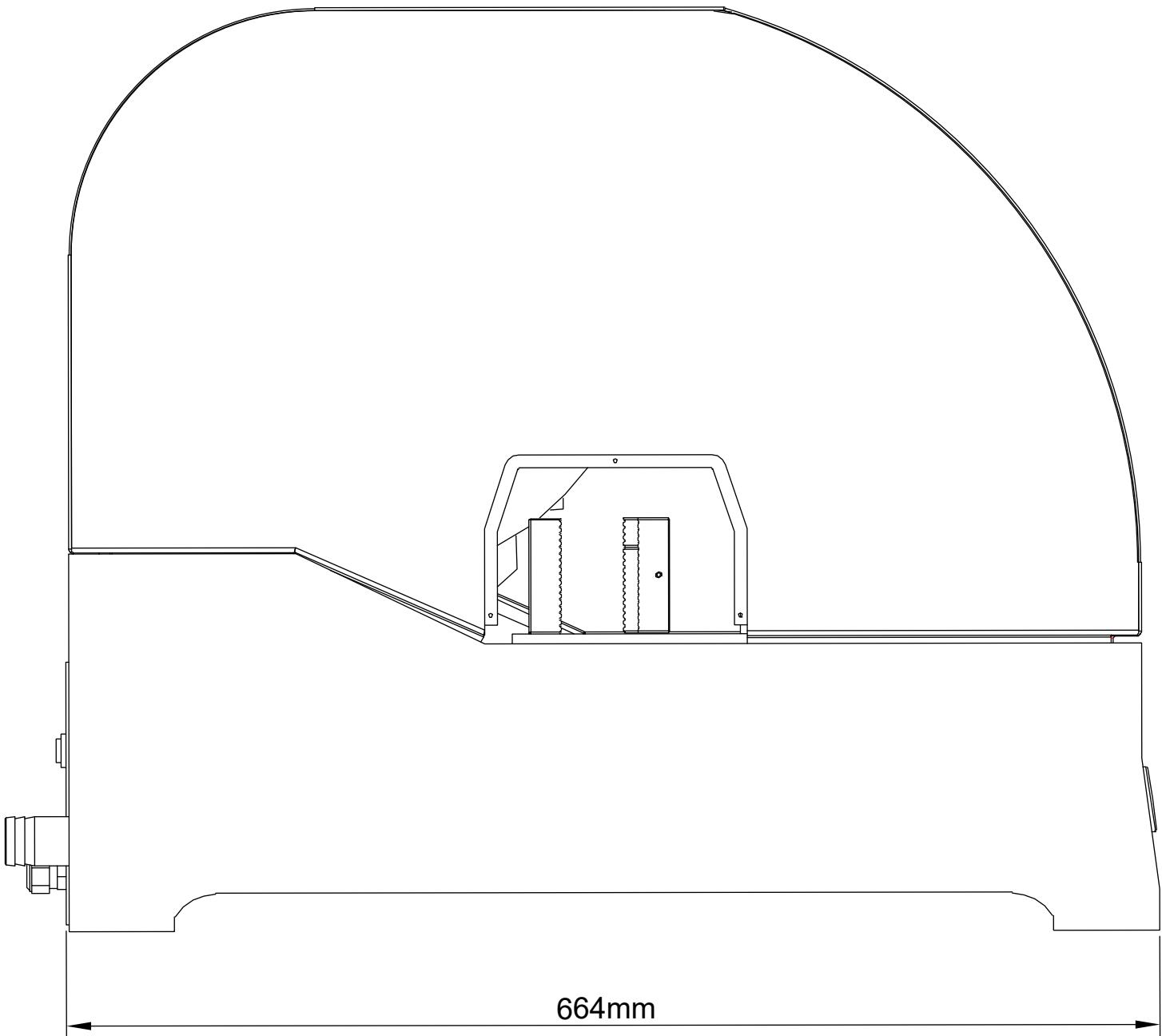
Equipped with a large-capacity water tank and water pump. The water tank has a filter to separate the waste generated by cutting, and is also equipped with a pressure water nozzle to facilitate users to clean the cutting chamber.

High Pressure Nozzle

Instrument Dimension



Instrument Dimension





Technical Specification

Product Name	Metallographic Abrasive Cutting Machine	
Model	iCut-80M	iCut-100M
Cutting Capacity	80mm	100mm
Spindle Speed	2800rpm	
Power	3kw	
Input Voltage	Three phase 380V 50HZ	
Cut-off Wheel	250*2*32mm	300*2*32mm
Machine Dimension	650*715*545mm	680*800*631mm
Net Weight	117kg	135kg

Standard Delivery

Name	Specification	Qty	
Machine Mainframe	iCut-80M& iCut-100M	1 set	
Water Tank (including pump)	iCut-80M& iCut-100M	1 pc	
Cut-off Wheel	250*2*32mm	2 pcs	
Pipe Clamp	30mm	2 pcs	
Wrench	36mm	1 pc	
Wrench	30-32mm	1 pc	
Inlet Pipe	iCut-80M&iCut-100M	1 pc	
Outlet Pipe	iCut-80M&iCut-100M	1 pc	
Instruction Manual	iCut-80M&iCut-100M	1 copy	
Product Certificate	iCut-80M&iCut-100M	1 copy	
Warranty Card	iCut-80M&iCut-100M	1 copy	