Mikrosize®

uCut-60

Automatic High Speed Metallographic Precision Cutter



Contact us

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Feature and Application

Product Feature

- Automatically detect sample cutting finished time, automatically stop cutting and retract to the initial position, without setting the sample cutting stroke.
- The machine is cleaned fully automatically via the spiral nozzles in the cutting chamber. Cleaning can be switched on individually and, if required, starts automatically after each cut-off. For a clear view, it can also be switched on during cut-off operation.
- In the same process of cutting, it can be carried out according to different feeding speeds and different rotational speeds.
- Parameters can be stored, and up to 99 sets of cutting processes can be saved. The corresponding stored parameters can be called for different material cutting without resetting the parameters each time.
- Adopt man-machine interface, PLC control, intuitive interface, simple operation.
- Customized languages can be realized for user friendly operation.
- Spindle adopts servo motor closed loop control, overload protection.
- The large 7" touch display is ergonomically arranged and easy to operate via the u er-friendly software.
- Automatic cleaning function.
- There are two cutting ways to choose cutting, a wider range of materials to adapt to the cutting.
- External circulating water cooling device.
- Closed and transparent protective cover and safety switch provide protection for the operator.
- Automatic sample rotation cutting, effectively reducing sample heating(uCut-60R).
- Sample collection to prevent small samples from falling off.
- Automatic/manual parallel movement of the X-axis to achieve parallel cutting of the sample (optional).

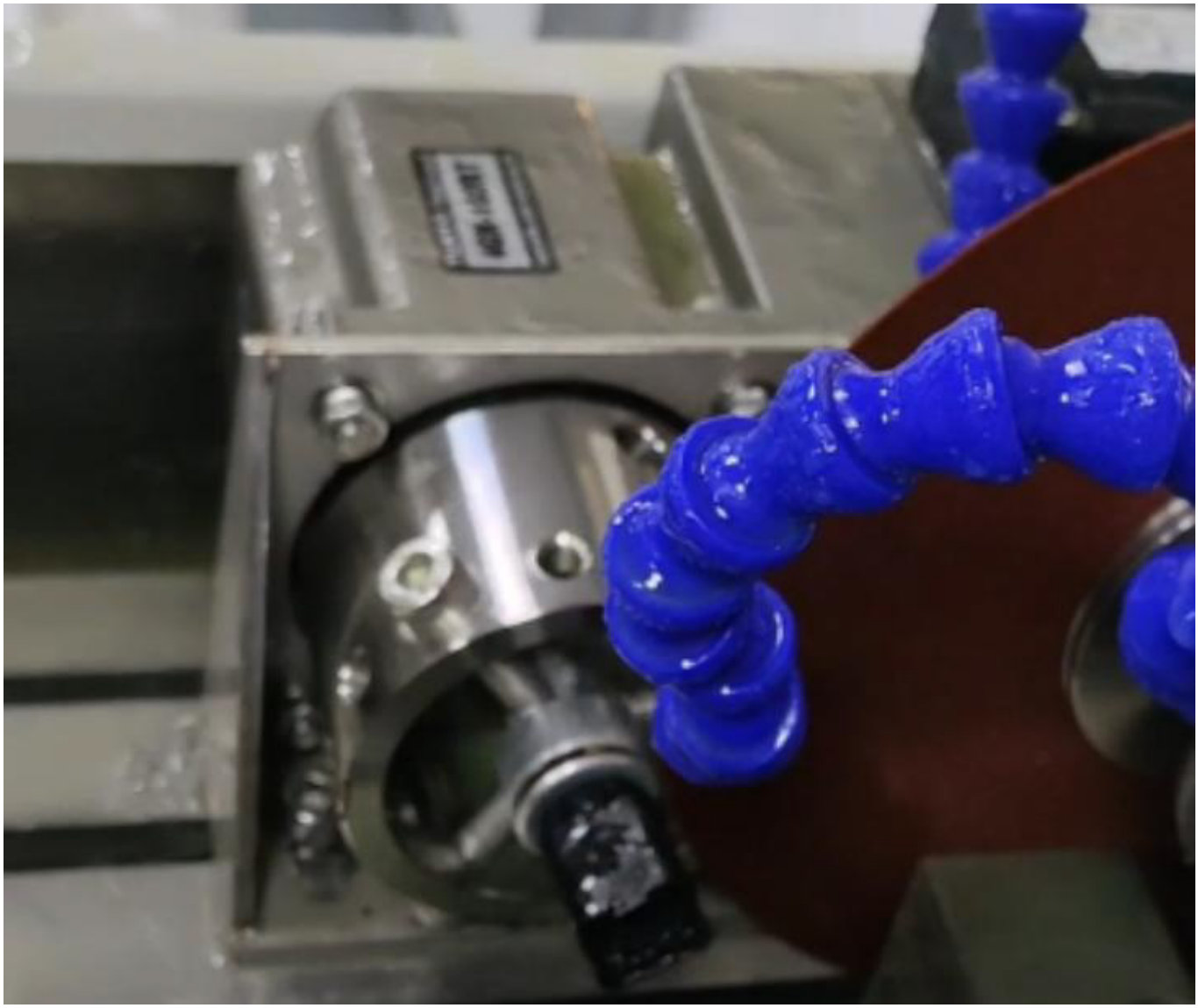
Product Application

- uCut60 automatic high-speed precision cutting machine has high spindle speed, thin cut-off wheel and precise cutting size, which is suitable for precision cutting of small parts.



Product Details

uCut-60R Sample Rotating Cutting



R-axis Rotating

- Model uCut-60R Automatic sample rotation cutting, effectively reducing sample heating, user can use this function to cut one sample from different position.

Product Details

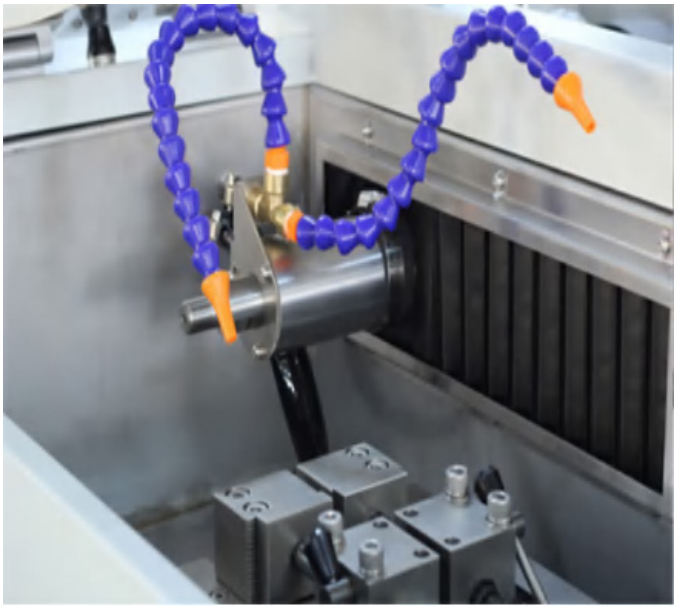
Optional X-axis Movement Design



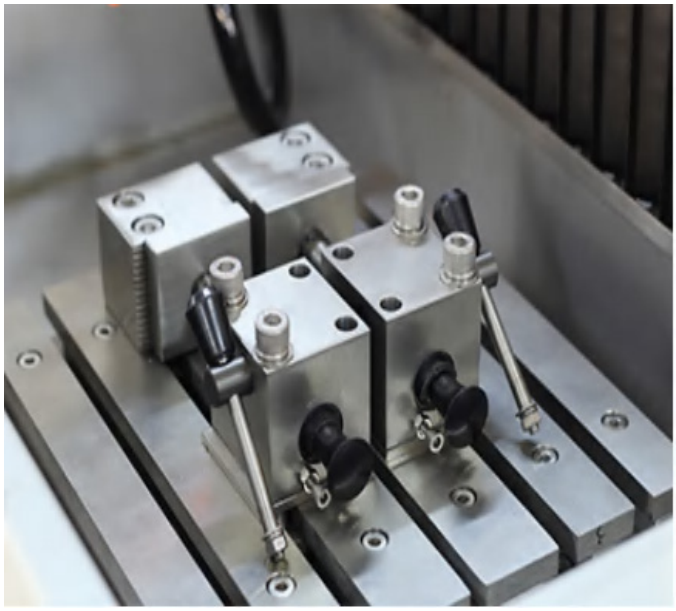
Optional X-axis Multiplicity Cutting

- Automatic/manual parallel movement of the X-axis to achieve parallel cutting of the sample (optional).

Product Details



Cutting Chamber



Quick Fixture



Cut-off Wheel



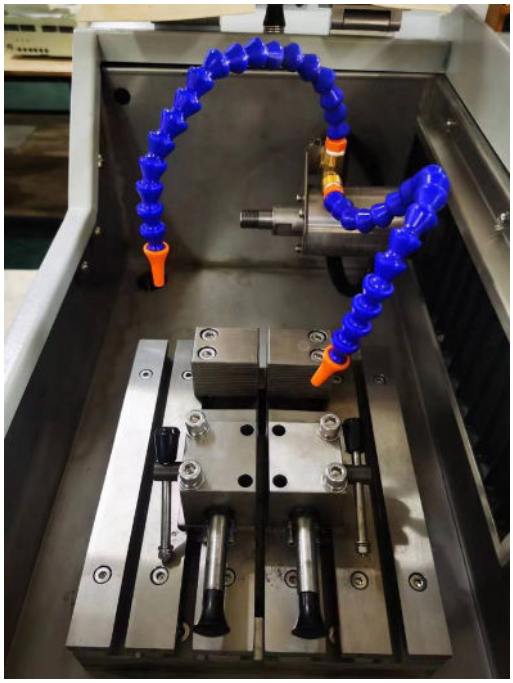
Control System

- The machine is cleaned fully automatically via the spiral nozzles in the cutting chamber. With quick fixture,Man-machine interface, PLC control, intuitive interface, simple operation.The large 7" touch display is ergonomically arranged and easy to operate via the user-friendly software.

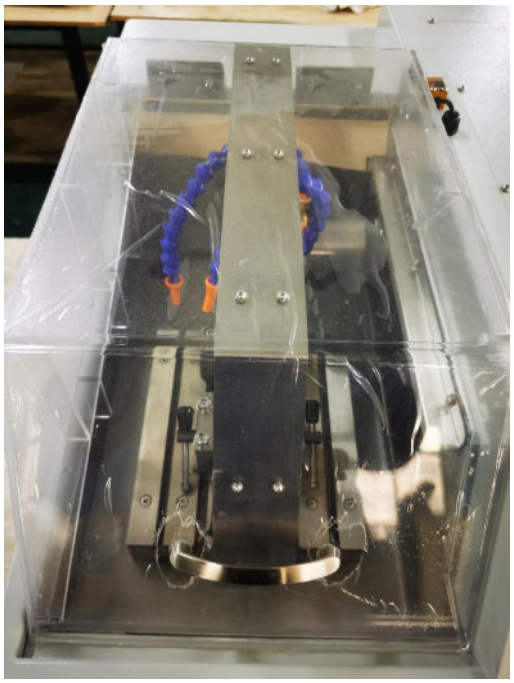
Product Details



Cut-off Wheel



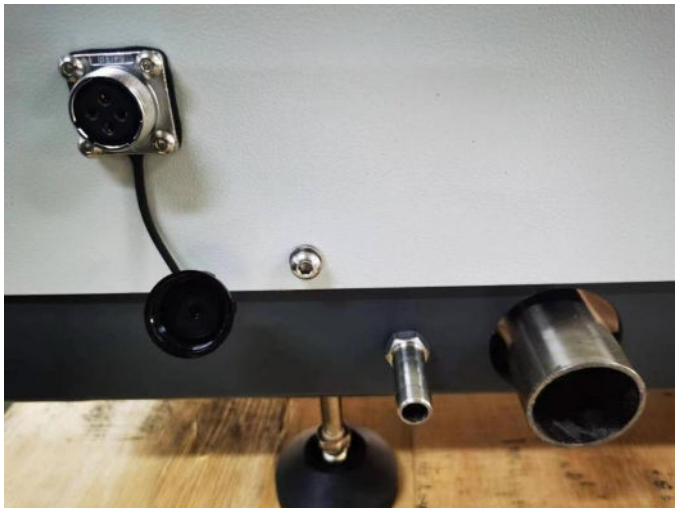
Chamber Under Cover



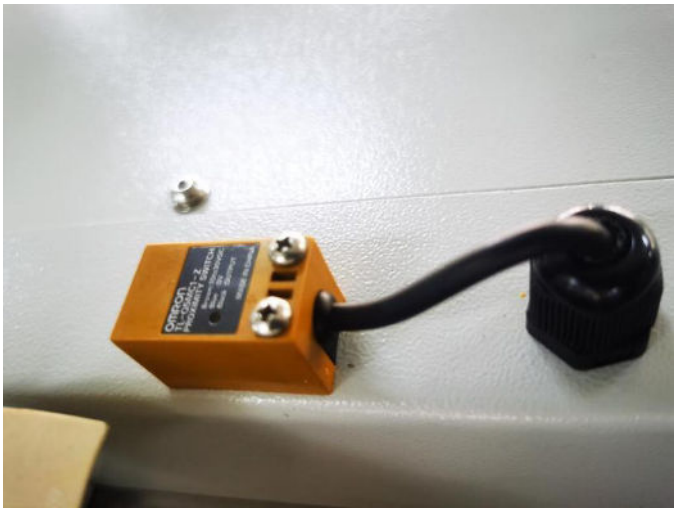
Protecting Cover

- Spindle adopts servo motor closed loop control, overload protection.Closed and transparent protective cover and safety switch provide protection for the operator.

Product Details



Water inlet/outlet

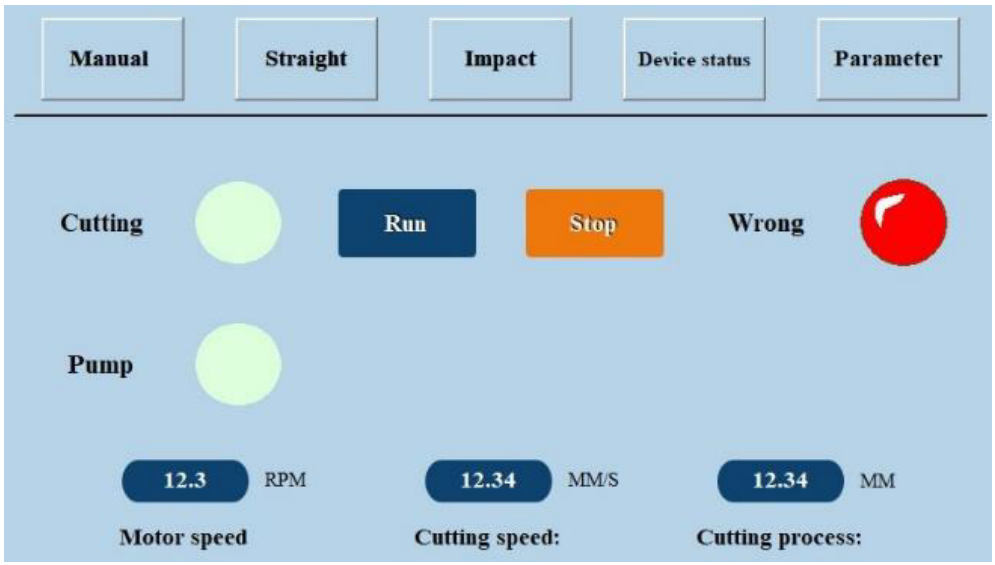


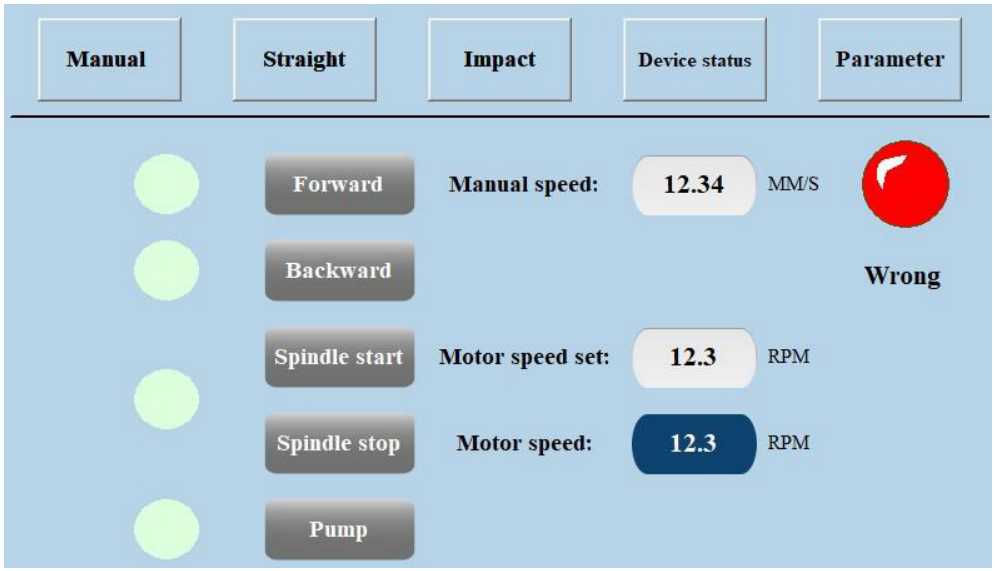
Safety Switch

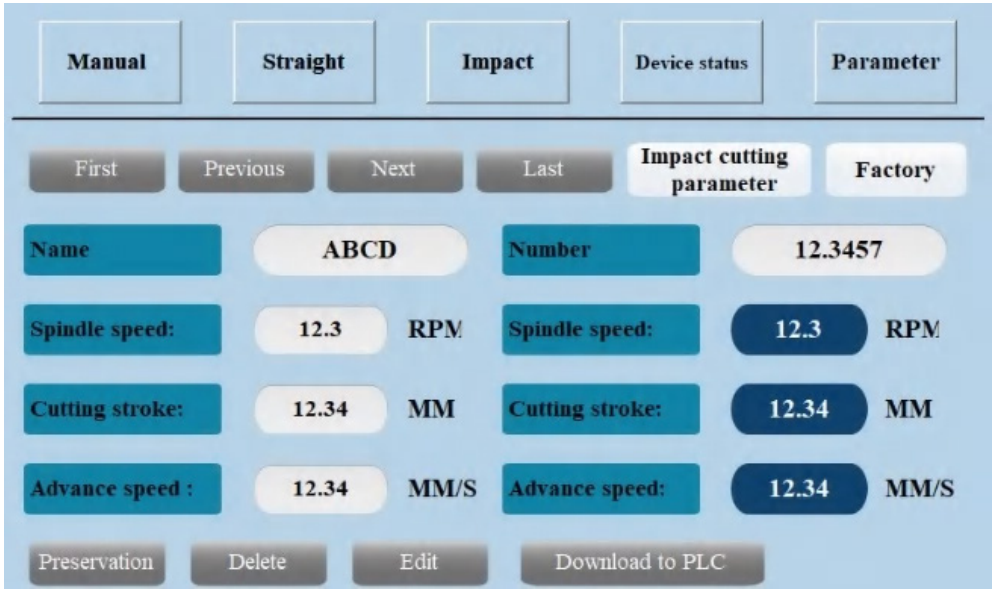


Power on/off and Emergency Stop Button

Operation Interface







Ordering Information



uCut-60 Metallographic Precision Cutter
uCut-60X Metallographic Precision Cutter(With X-axis Movement)



uCut-60R R-axis Metallographic Precision Cutter

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Technical Specification

Cut-off Wheel	Standard Size □200 x 32 x0. 9mm, Diomond/CBN/Resin
Spindle Speed	500-3000r/min (Optional 500-5000r/min) Adjustable
Feeding Speed	0.01- 3 mm/s
Manual Feeding Speed	0-5mm/s
Backward Speed	0-5mm/s
Impact Cutting Distance	0.1-2 mm
Cutting Stroke (Y-axis)	200mm
X-stage Movement(uCut-60X)	Precision:0.01mm, Range:40mm
Maximum Cutting diameter	Φ60 mm
Cutting Table Size	216x240mm(X*Y)
Maximum Clamping Length of Fixture	150mm
Maximum Clamping Width of Fixture	215mm
Servo Motor	1.5 kw
Usage Method Data	12 kinds can be Stored
Power supply	AC220V 50HZ
Mainframe Dimensions	750*870*455 mm
Net Weight	126KG

Standard Delivery

Name	Qty	Photo
Open end spanner (22-24, 17-19)	each 1	/
6mm inner hexagon wrench	1pc	/
5mm inner hexagon wrench	1pc	/
Power cord	1pc	/
Φ200mm Diamond Cut-off Wheel	1pc	

Standard Delivery

Name	Qty	Photo
Cooling system (including water tank, water pump, water inlet pipe and drainage pipe)	1set	/
1L Cutting fluid	1 bottle	
Hose hoops 13 to 19	2pcs	/
Hose hoops 40-63	2pcs	/
External Water Tank	1pc	