Mikrosize®

uCut-40

Metallographic Precision Cutter (Low Speed)



Contact us

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Feature and Application

Product Feature

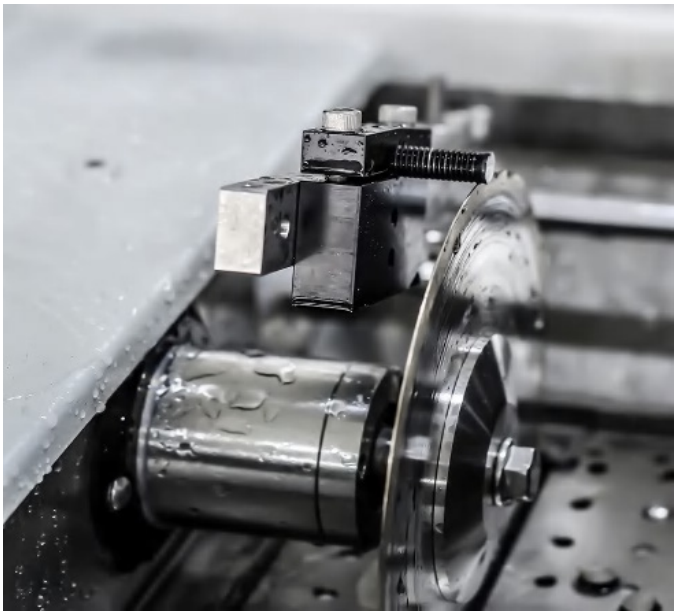
- Workpieces up to 40 x 50 mm.
- High-precision tabletop machine.
- Low speed protects against heat deformation.
  Accuracy of +0.01 mm.
- 100-175mm (4-7") CBN and diamond cut-off wheels.A small, low-speed, automatic precision cutting machine for sectioning small and delicate materialographic
  workpieces that can't tolerate the heat generated by high-speed cutting.
- uCut-40 is designed with speed and efficiency in mind. The simple design means it only takes a few minutes to setup a cut, and the machine can be set to stop automatically once
- the cut is done, unguarded processing can be realized and giving you more time to work on other tasks.
  The gravity feed design allows for sectioning of various material types, with high accuracy and reproducibility,easy to operate and the feeding speed of cutting sample is fine-tuned to minimize sample damage.
  Simple and intuitive operation menu.
  Closed transparent protective cover and safety switch provide protection for operators,easy to observe.
  Closed loop control cutting to prevent overloading to burn motor, circuit, etc.
  Ultra-thin cut-off wheel, such as 0.4mm thick diamond cut-off wheel, using the micrometer screw,with accuracy of 0.01 mm, to achieve precision cutting., make it ideal for small pieces that require high precision.
  7 pieces of different sample fixture to meet the cutting requirements of different samples.
  Large size circuit board table cutting device (optional),convenient for wafer material, circuit board,glass and other large size sample cutting.
  Sintered diamond cut-off wheel , easily precised cutting for glass, circuit, board rock, and other solid materials.

Product Application

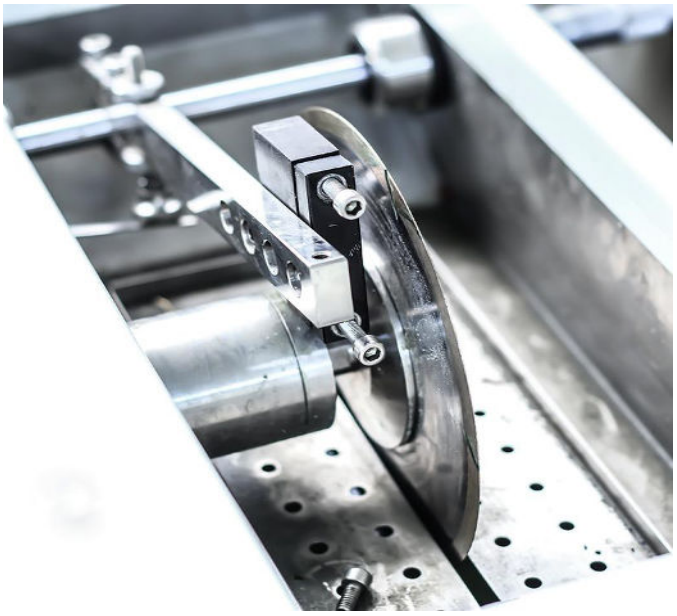
- uCut-40 Cutting Machine can be used to cut material, electronic element, electronic element, crystals, hard alloy, rock sample, core sample, concrete, organic materials, biological materials (teeth, bones), etc. Precision cutting without deformation.
- It is an ideal precision cutting machine for industrial and mining enterprises, scientific research institutes to prepare high quality samples.



Product Details



Cut-off Wheel



Constant Speed, Even at High Loads



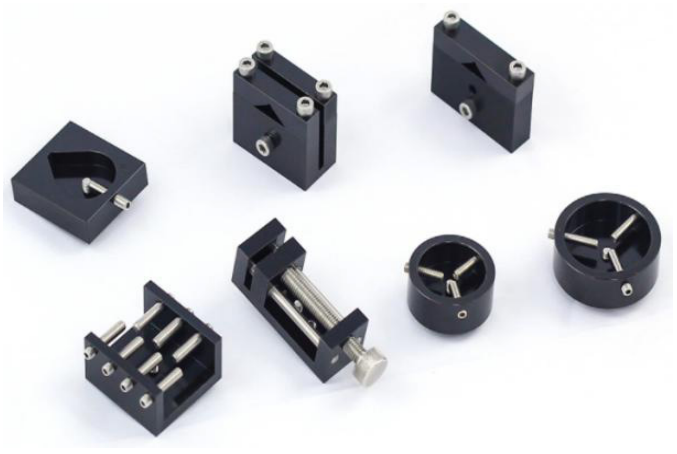
Transparent Protective Cover



Gravity Feed Design



Micrometer Fine Turning



7 pieces Sample Fixtures

Product Details



Cut-off Wheel Cooling Tank



Cutting Stop Setting



Water Circulation



Water Circulation

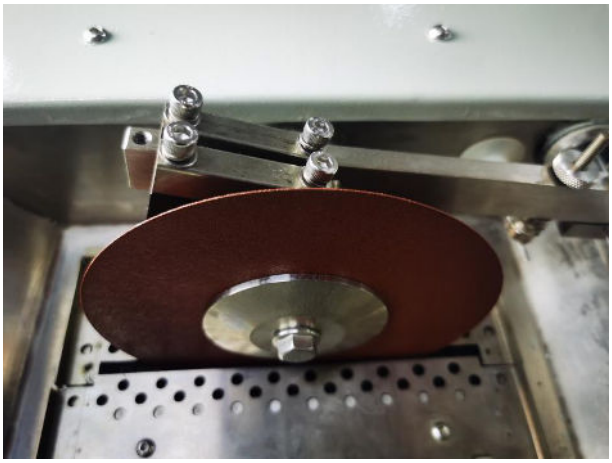


LED Display



LED Display

Product Details



Movable Specimen Holder Arm



Movable Specimen Holder Arm



Power On/Off



Turn Knob Control

Optional Table Cutting Device



- Table Cutting Device is suitable for cutting thin sized sample,-glass,electronic circuit board etc. With this device , user can section limitless length sample.
  Table Dimension:360X200X60mm
  Cutting Capacity:180*160mm
  Cutting Thickness: 20mm

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Technical Specification

Product Name	Metallographic Precision Cutting Machine
Model	uCut-40
Cutting Capacity	40x50mm/1.6”x2.0”
Brushless DC Motor	Power: 550W Speed: 0-1500rpm
Control	Touch Pad & Turn Knob
Recirculation Cooling Tank	800ml/0.22gallons
Specimen Holder Arm	Balance Weight:550g/ 20 ounces
	Cutting Weight: 250g/9 ounces
Surrounding Temperature	5-40°C/-13-131°F
Humidity	Less than 95% RH non-condensing
Cut-off wheel	Standard diamond Cut-off wheel 150x12.7x0.43mm (6”)
Cutting Positioning Accuracy	0.01 mm
Built-in Cooling System	Automatic circulating cooling of cutting fluid (cutting disc drives water circulating cooling of flume)
Display	LED digital display
Emergency Brake	Emergency stop switch
Power supply	AC100-240V/ 50-60HZ
Overall dimensions	520 x 430 x 390 mm (20.5x17x15”
Weight	33kg (72.6Ibs)

Standard Delivery

Name	Qty	Photo
Diamond Cut-off Wheel	1pc	/
Single Saddle Fixture	1pc	
Double Saddle Fixture	1pc	
Irregular Fixture	1pc	
Mounting Fixture (30mm)	1pc	
Mounting Fixture (40mm)	1pc	
Tear-shape Fixture	1pc	
Counterweight Components	1set	/
Flat Fixture	1pc	
Cutting Fluid 200 ml	1bottle	/

Standard Delivery

Name	Qty	Photo
Wrench 13-15, 14-17	each 1pc	/
Mircometer	1pc	/
Hexagon Wrench (2.5mm)	1pc	/
Hexagon Wrench (4.0mm)	1pc	/
Hexagon Wrench (5.0mm)	1pc	/
Hexagon Wrench (6.0mm)	1pc	/
Power Cord	1pc	/
Instruction Manual	1copy	/
Product Certificate	1copy	/

Optional Delivery

Optional	Cut-off Wheel	Suitable for hard materials and precision cutting Specification: 100mm (4inch) 100x0.3x12.7mm 125mm (5inch) 125x0.38x12.7mm 175mm (7inch) 175x0.5x12.7mm
	Cutting Fluid	Suitable for use with cut-off wheels to prevent the sample from overheating and burning. Specifications: 1:20 Dilute with water Packaging: 1L/ bottle
	Table Cutting Device	Suitable for cutting thin slice, glass, electronic circuit board, etc. Cutting specifications: 180x160x20

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