

uCut-40

Metallographic Precision Cutter (Low Speed)



Video



Contact us

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Product Feature & Application

Product Feature

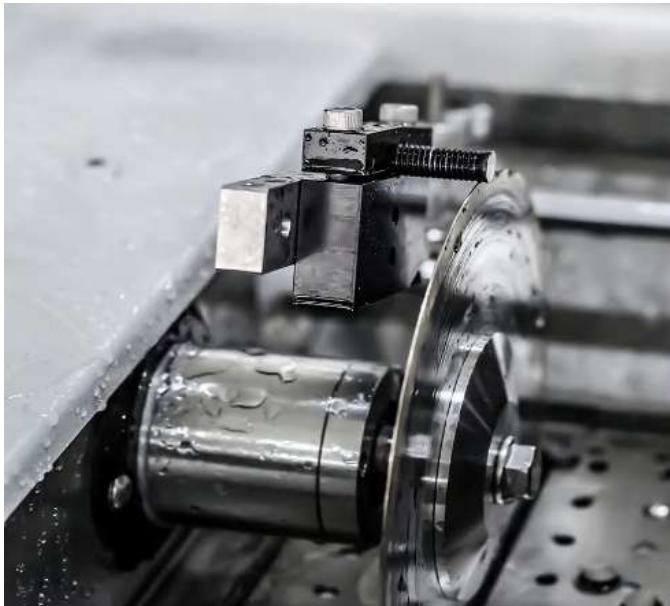
- Workpieces up to 40 x 50 mm.
- High-precision tabletop machine.
- Low speed protects against heat deformation.
- Accuracy of +0.01 mm.
- 100-175mm (4-7") CBN and diamond cut-off wheels.
- A small, low-speed, automatic precision cutting machine for sectioning small and delicate materialographic workpieces 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 precision 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.

User Friendly



Cut-off Wheel



Constant Speed, Even at High Loads



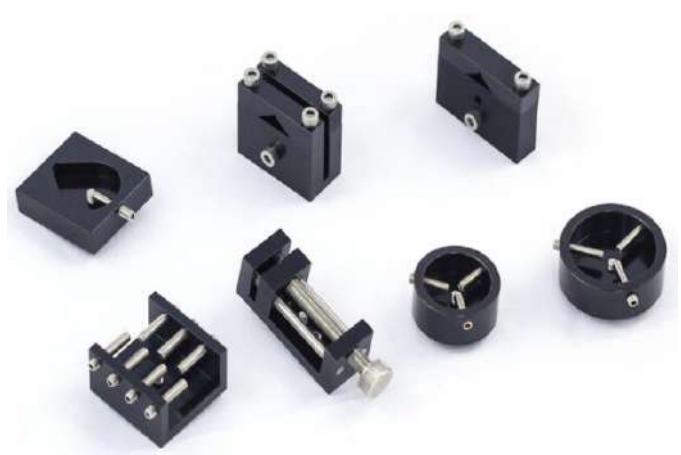
Transparent Protective Cover



Gravity Feed Design



Micrometer Fine Turning



7 pieces Sample Fixtures

User Friendly



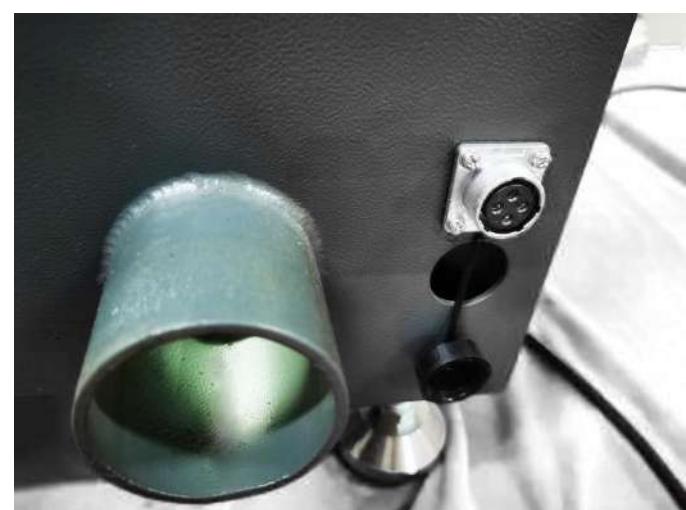
Cut-off Wheel Cooling Tank



Cutting Stop Setting



Water Circulation



Water Circulation

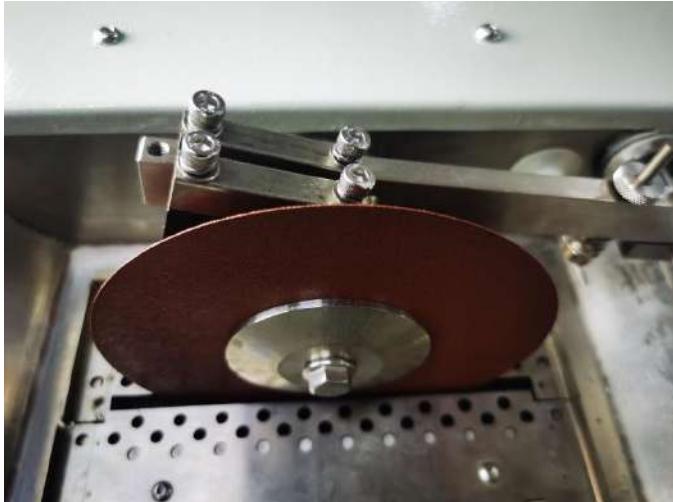


LED Display



LED Display

User Friendly



Movable Specimen Holder Arm



Avoid Thermal Overload



Power On/Off



Turn Knob Control

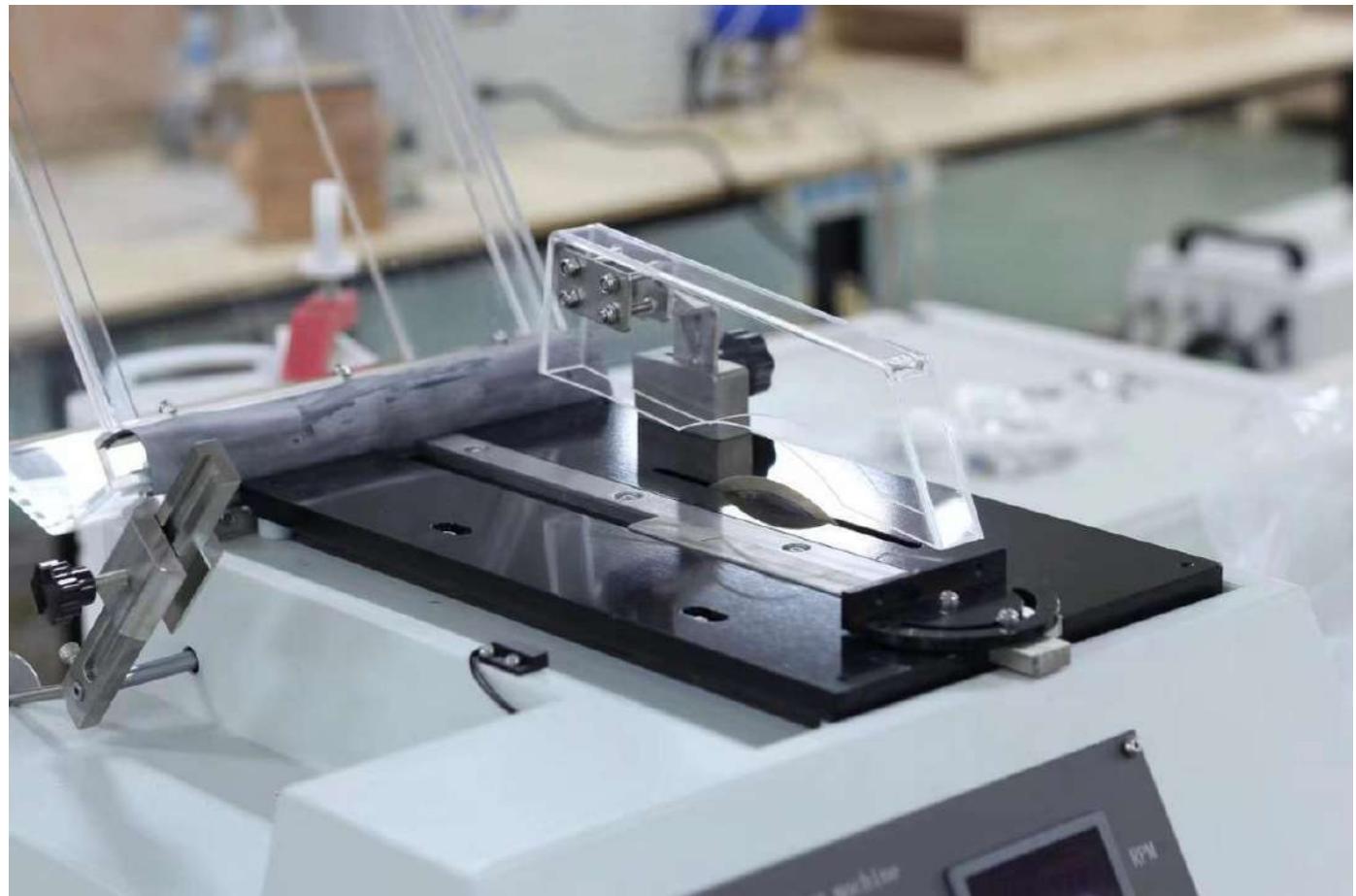
Optional Table Cutting Device

Table Cutting Device is suitable for cutting thin sized sample,glass,electronic circuit board etc. With this device , user can section limitless length sample.

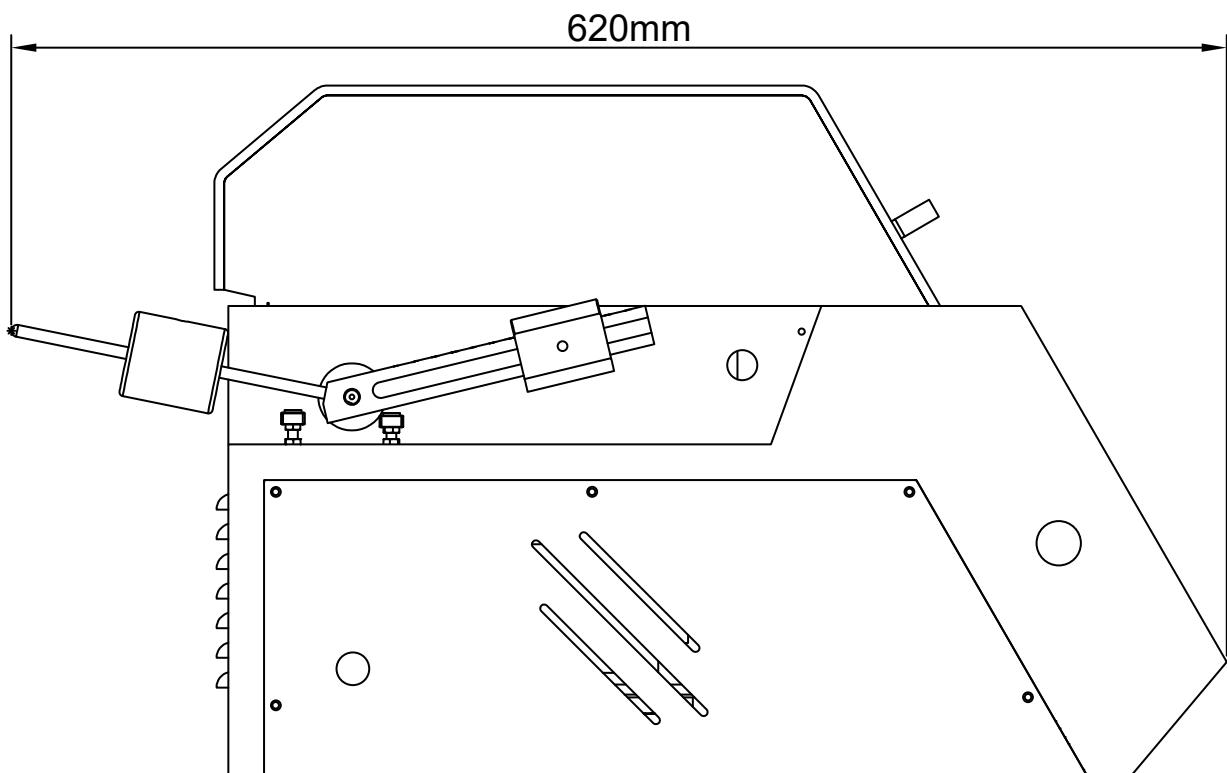
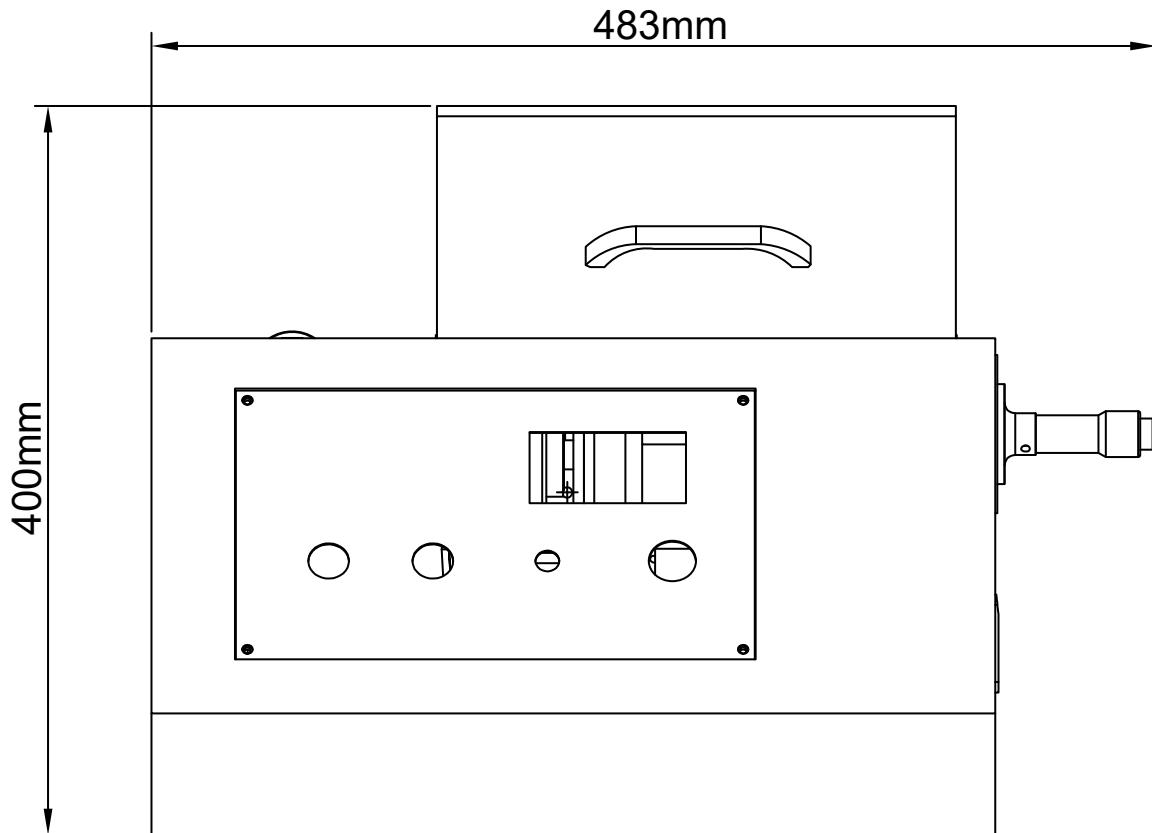
Table Dimension:360X200X60mm

Cutting Capacity:180*160mm

Cutting Thickness: 20mm



Instrument Dimension



Technical Specification

Model	uCut-40
Product Name	Metallographic Precision Cutting Machine
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 (72.6lbs)

Standard Delivery

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

Item	Quantity
Wrench 13-15, 14-17	Each 1pc
Mircometer	1 pc
Hexagon Wrench (2.5mm)	1 pc
Hexagon Wrench (4.0mm)	1 pc
Hexagon Wrench (5.0mm)	1 pc
Hexagon Wrench (6.0mm)	1 pc
Power Cord	1 pc
Instruction Manual	1 copy
Product Certificate	1 copy



Tear-shape fixture



Double Saddle Fixture



Single Saddle Fixture



Irregular Fixture



Flat Fixture



Mounting fixture
(30MM)



Mounting fixture
(40MM)

Optional Accessories

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