



MCut-65

Manual Abrasive Metallographic Cutter
(Cutting Capacity:65mm)





Product Feature & Application

Product Feature

- X-axis manual movement controls cutting thickness.
- Y-axis feeding controls sample cutting off.
- 1.5kW motor has strong cutting ability and convenient operation.
- The main parts of the clamp device and cutting table are all made of stainless steel, which has long service life and convenient maintenance.
- The cutting chamber adopts closed structure with safety limit switch.
- Transparent organic glass window and built-in LED lamp for cutting observation.
- With cabinet structure, it is easy to store all kinds of cutting consumables.
- With circulating cooling water tank, the surface of the sample after cutting is bright and flat without burns.



Machine Mainframe



Water Tank

Product Application

This machine is suitable for various metallographic materials. It is the ideal equipment for sample cutting.



User Friendly

X-axis manual movement controls cutting thickness, Y-axis feeding controls sample cutting off. 1.5kW powerful motor equipped, which has strong cutting ability and convenient operation.



X-axis Controls Cutting



Y-axis feeding



1.5kW Powerful Motor



User Friendly

Transparent organic glass window and built-in LED lamp for observation, with quick release single side clamping fixture on cutting table.



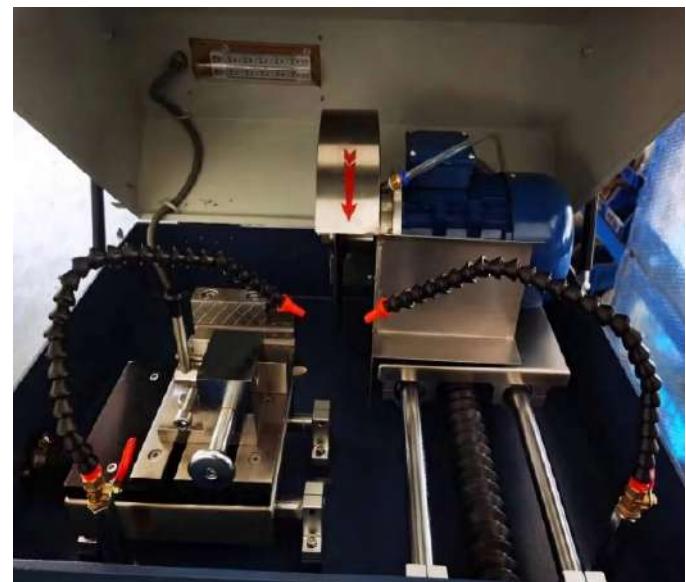
Organic Glass Window



LED Illumination



Cutting Chamber



Cutting Chamber

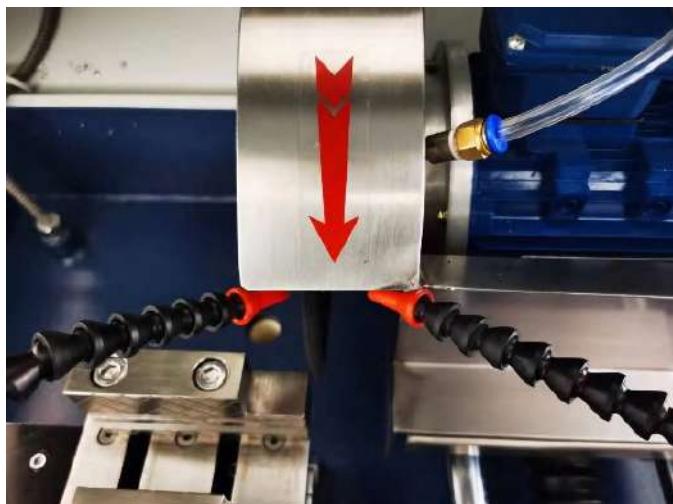


Quick Release Single Side Clamping Fixture

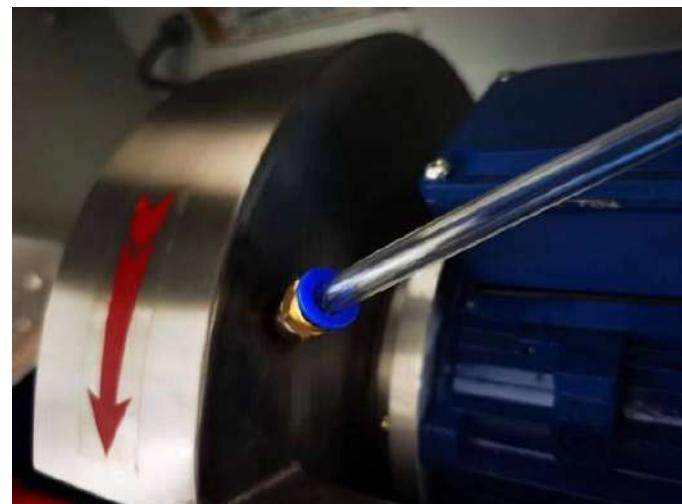


User Friendly

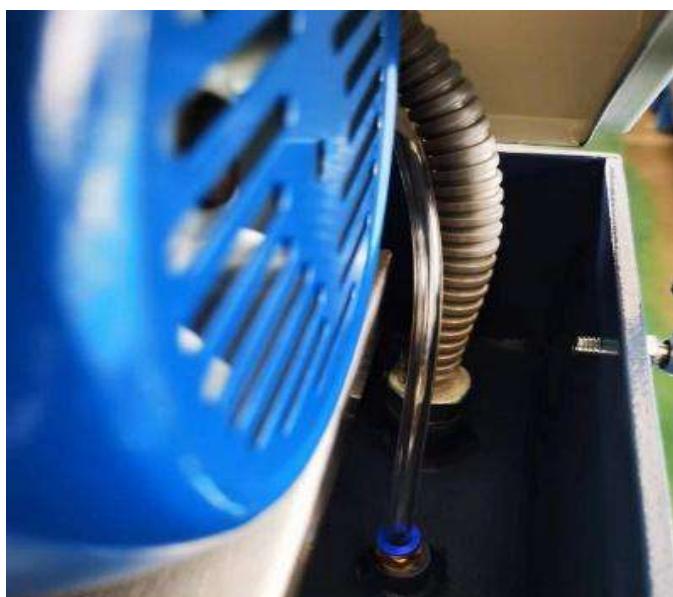
Circulating cooling water system, for both cutting disc and cutting sample, the sample surface after cutting is bright and flat without burns.



Circulating Cooling System



Circulating Cooling System



Circulating Cooling System



Water Inlet/Outlet



Pump Interface



Electricity Cabinet



User Friendly

Two gas spring support to ensure safety, Cutting chamber adopts closed structure with safety limit switch.



Gas Spring Support



Gas Spring Support



Safety Limit Switch



Technical Specification

Product Name	Manual Abrasive Metallographic Cutter
Model	MCut-65
Cutting Method	Manual, Y-axis Feeding
Cut-off Wheel	$\Phi 250 \times 2 \times \Phi 32$ mm
Max. Cutting Capacity	65×65mm
X -axis Travel	45mm
Y -axis Travel	270mm
Spindle Speed	2800r/min
Motor Power	1.5kW
Cutting Table	130×190mm, T-slot 12mm
Clamping Fixture	Quick Clamp, Jaw Height 60mm
Power Supply	380V, 50Hz, 6A, Three-phase, Four-wire
Machine Dimensions	700×520×1110mm
Net Weight	170kg
Water Tank Capacity	60L
Pump Flow	25L/min
Water Tank Dimensions	565×360×600mm
Water Tank Weight	27kg



Variable Cut-off Wheels Optional

Series	Name	Material	Application	Specification
Series A	Alumina Cut-off Wheel A2: 45~55HRC A3: >55HRC	Aluminum oxide (Brown corundum) Resin bond	For cutting of common steel materials, carbon steel, alloy steel, cast iron, unquenched steel, etc.	(250×1.2×32)(250×1.5×32)
				(250×2×32)
				(300×1.5×32)(300×2×32)
				(350×2.5×32)
				(380×2.8×32)
				(400×3×32)
Series B	Alumina Cut-off Wheel B2: 45~55HRC	Aluminum oxide (White corundum) Resin bond	For cutting of high-quality carbon steel, alloy structural steel, tool steel, bearing steel, stainless steel, high-speed steel and high hardness quenched steel, etc.	180×1×22
				205×1.2×32
				(250×1.2×32)(250×1.5×32)
				(250×2×32)
				(300×1.5×32)(300×2×32)
				(350×2.5×32)
Series C	Silicon Carbide Cut-off Wheel	Silicon Carbide Resin bond	For cutting of non-ferrous metal materials (copper, aluminum, zinc, titanium, cast aluminum, tungsten-molybdenum alloy, cemented carbide, etc.) and non-metallic brittle materials (glass, ceramics, rock, etc.).	(250×1.2×32)(250×1.5×32)
				(250×2×32)
				(300×1.5×32)(300×2×32)
Series D	Alumina Cut-off Wheel D2: 45~55HRC	Aluminum oxide (Chromium corundum) Resin bond	For cutting of high vanadium high speed steel, alloy steel, tool steel, and high toughness, high viscosity, burn-prone materials, etc.	(250×1.5×32)(250×2×32)
				(300×1.5×32)(300×2×32)
Customized	Alumina Cut-off Wheel (Red sand)	Aluminum oxide Resin bond	For cutting of hard ferrous metals. (60HRC)	(250×1.2×32)(250×1.5×32) (250×2×32) (300×1.5×32)(300×2×32)

Variable Cutting Discs Optional

Series	Name	Material	Application	Specification
Ultrathin Precision Cut-off Wheel	Diamond Cut-off Wheel	Diamond Bronze bond	For cutting of plastics, rubber, dental orthopedic materials, high hardness ceramics, glass, electronic components, printed circuit boards, non-ferrous metal materials, rocks, non-ferrous composite materials, etc.	(100×0.7×12.7)
				(180×0.8×22)
				(200×1×32)
				(250×1.2×32)
				(300×1.5×32)
	CBN Cut-off Wheel	CBN Resin bond	For cutting of iron-based metals, super alloy materials, cobalt-based alloys, nickel-based alloys, high-carbon alloys, high-speed steel, tungsten-molybdenum alloys, heat-resistant alloys, cast magnets, titanium alloys, etc.	(100×0.7×12.7)
				(180×0.8×22)
				(200×1×32)
				(250×1.2×32)
				(300×1.5×32)
	Petrographic Cut-off Wheel	Diamond Bronze bond	For cutting of petrographic materials.	(250×2×32)
Saw Blade	Toothed Saw Blade	Cemented carbide	For cutting of aluminum, aluminum alloy and other high viscosity materials.	(180×1.8×25.4)
				(200×2×32)



Standard Alumina Cut-off Wheel



Red sand Resin Cut-off Wheel



Silicon Carbide Cut-off Wheel



White Corundum Cut-off Wheel



Chrome Corundum Cut-off Wheel



Diamond Cut-off Wheel



CBN Cut-off Wheel



Petrographic Cut-off Wheel



Toothed Saw Blade



Packing List

Name	Specification	Qty
Machine Mainframe	/	1 set
Water Tank	/	1 set
Cut-off Wheel	Φ250×2×Φ32mm Resin cut-off wheel	1 pc
Cutting Fluid	3kg	1 bottle
Spanner	36mm, 14×17mm, 24×27mm	each 1 pc
Water Inlet Pipe	1/2 Metal pipe	1 pc
Water Outlet Pipe	Φ32mm	1 pc
Usage Instruction Manual	/	1 copy



Water Tank



Cut-off Wheel



Cutting Fluid