

MIDLAND METROLOGY LIMITED

# MCut-85

Manual Metallographic Cutter  
(Cutting Capacity: 85mm)



# Product Feature & Application

## Product Feature

- High motor speed and powerful cutting ability.
- Double sided clamp device to fix the sample firmly in place.
- The main parts of the clamp and cutting table are made of stainless steel.
- The cutting chamber has a closed structure with safety limit switch.
- The window is used for cutting long samples.
- Clear glass window and LED lamp for observation.
- Equipped with circulating cooling water system.



Bench Top



Floor Standing

## Product Application

This machine is suitable for general metallographic and petrographic materials. By using the spindle gravity to cut samples. Ideal equipment for sample cutting. This model is available in bench top and floor type design.

# User Friendly

Transparent glass window and built-in LED lamp for observation. An opening window is used for cutting long strip samples. Clamping device to secure samples.



Cutting Chamber



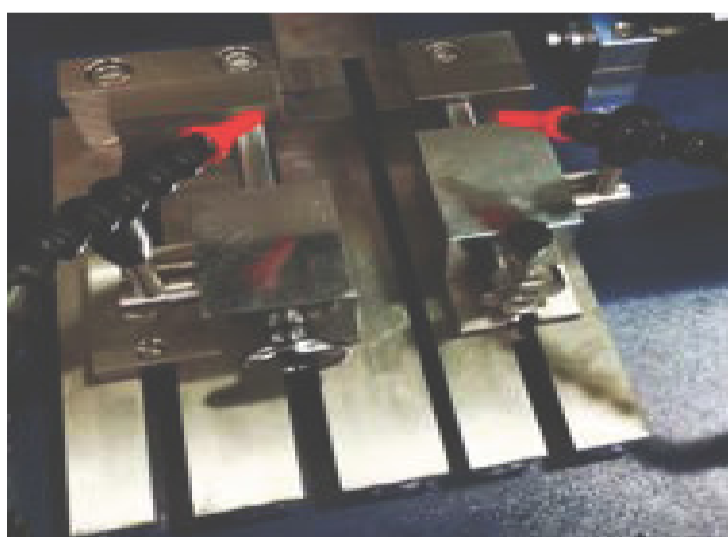
Quick Clamping Device



Opening window in the left cover



LED illumination inside Cutting Chamber



T-groove structure cutting stage

# User Friendly

Two gas spring supports to ensure safety, Cutting chamber has a closed structure with safety limit switch and emergency stop button.



Gas Spring Support



Gas Spring Support



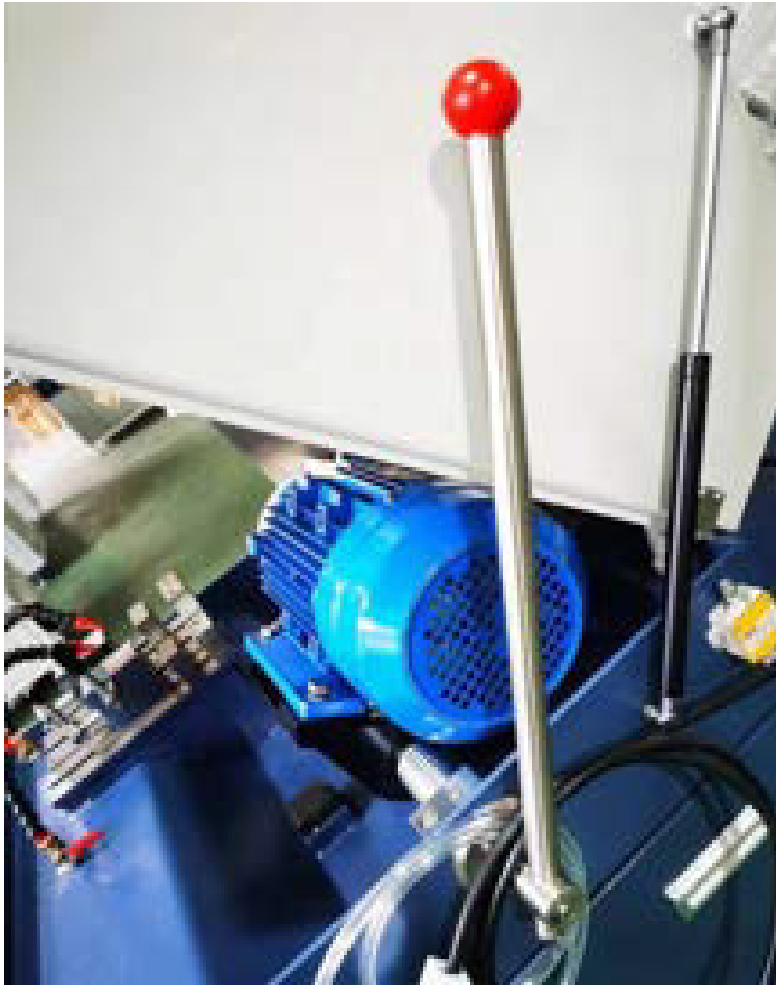
Emergency Stop Button



Safety Limit Switch

# User Friendly

3KW powerful motor equipped with power source. Spindle is pulled using spindle gravity to cut sample.



Spindle Pulling Cutting



3KW Powerful Motor



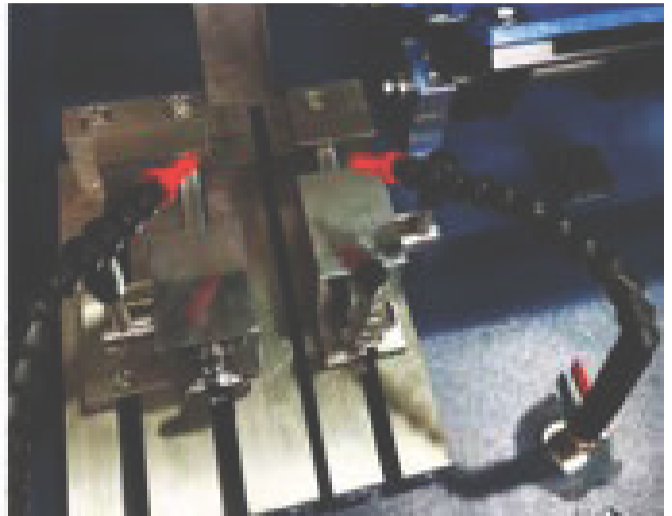
Schneider Power Source

# User Friendly

Circulating cooling water system, for both cutting discs and cutting samples. The sample surface after cutting is bright and flat without burns.



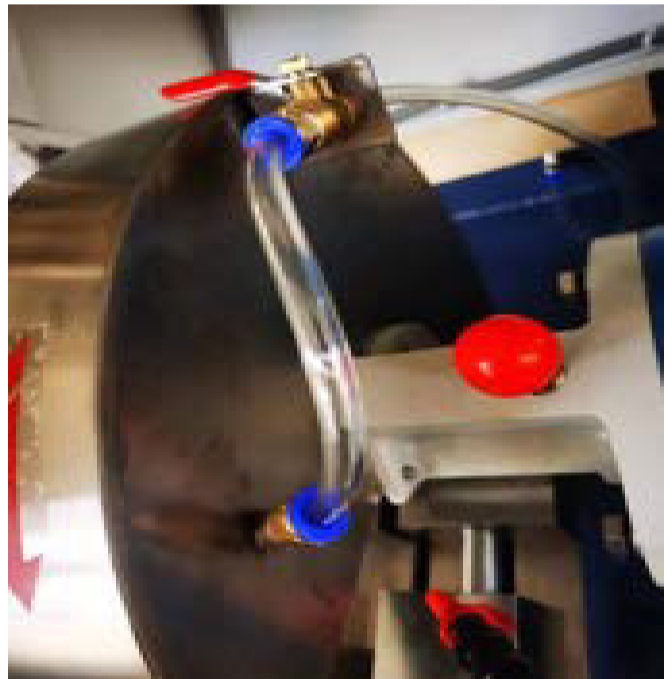
Water Tank



Water Impact Cooling



Water Inlet/Outlet



Water Impact Cooling



Flushing Water Gun



Flushing Water Gun

# Ordering Information



MCut-85 Bench Top Type  
Manual Metallographic Cutter



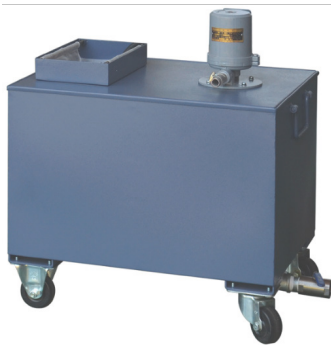
MCut-85 Floor Standing Manual  
Metallographic Cutter

# Technical Specification

Model	<b>MCut-85</b>
Cutting Method	Manual
Cut-off Wheel	300×2×32mm
Max. Cutting Capacity	85×85mm
Spindle Speed	2800r/min
Electromotor Power	3kW
Cutting Stage	204×240mm, T-slot 12mm
Clamping Device	Quick clamp, Jaw height 60mm
Power Supply	380V, 50Hz, 10A, Three-phase four-wire
Dimensions	730×700×540mm (750×730×1200mm floor type)
Net Weight	125kg(180kg floor type)
Water Tank Capacity	60L
Pump Flow	25L/min
Water Tank Dimensions	565×360×600mm
Water Tank Weight	27kg

# Standard Delivery

Name	Specification	Qty
Machine Body	/	1 set
Water Tank	/	1 set
Cut-off Wheel	300×2×32mm Resin cut-off wheel	2 pcs
Cutting Fluid	3kg	1 bottle
Spanner	14×17mm, 24×27mm	each 1 pc
Inner Hexagon Spanner	3mm, 6mm	each 1 pc
Water Inlet Pipe	1/2 Metal pipe	2 pcs
Water Outlet Pipe	48mm	1 pc
Usage Instruction Manual	/	1 copy



**Water Tank**



**Resin cut-off wheel**



**Cutting Fluid**