AbrasiMet™ 250

Manual Abrasive Cutter

BUEHLER

Solutions for Materials Preparation, Testing and Analysis

AbrasiMet™ 250 - Bench-Top Abrasive Cutter

The AbrasiMet 250 Manual Abrasive Cutter features manual cutting action with best in class lighting, visibility and cut capacity. With its large workspace and versatile vising options, this cutter enables simple, quick and easy positioning of samples for cutting and sectioning. When combined with the PetroCut™ Vise Table, the AbrasiMet 250 becomes a highly versatile Petrographic or Geological cutting tool.

Viewing

- Large viewing window
- Unobstructed view of sample

Lighting

- Ten bright, high efficiency LED lights
- Long, flexible gooseneck LED light allows for easy positioning to further illuminate the workspace

Cutting

- Uses 10in [254mm] abrasive wheels

Safety

- Hood lock prevents cutting while hood is open and locks hood shut while machine is in operation

Large Workspace

- Ample work area for large parts
- Facilitates multiple vising options

Simple Operation

- On/Off Controls
- Emergency Stop

Reliability

- Electronics completely isolated from wet environment of cutting chambers

Chop Action

- Manual chop handle, provides tactile feedback
- Fast easy cuts

Storage

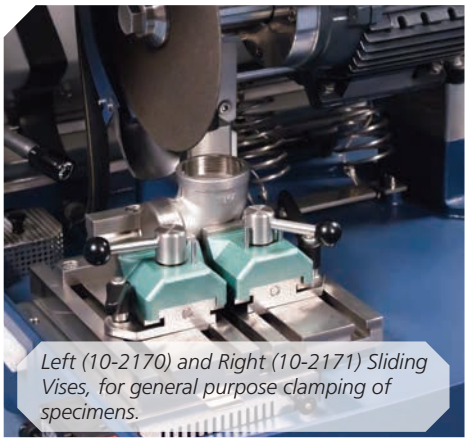
- Convenient storage drawer for hand tools required for setup and operation

Cleanability

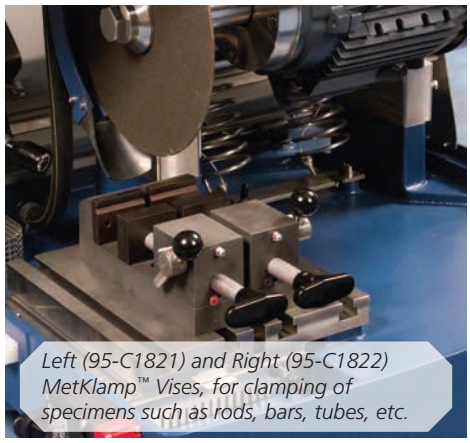
- Externally mounted cleaning nozzle stays dry
- Switch flow to the nozzle for easy washdowns

At a Glance

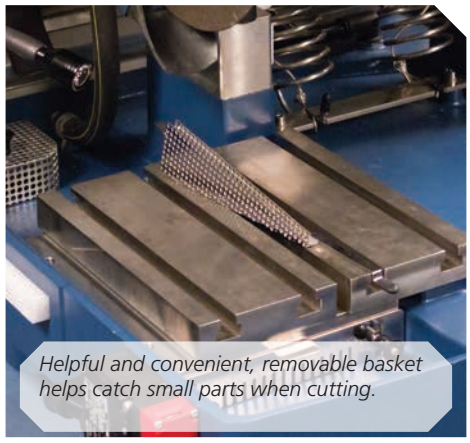
- Largest cutting window for this class of cutting tool
- Bright, energy-efficient LED lighting for highly visible, clear and unobstructed viewing of samples, cut location, vising and cut progress
- Easy-to-use with minimal operator training
- Open workspace allowing quick and easy placement of samples
- Spray Hose for efficient cleaning and washdown of the cutting chamber
- Convenient, removable basket helps catch small parts when cutting



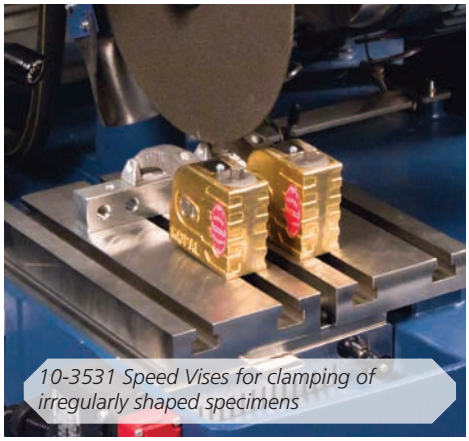
Left (10-2170) and Right (10-2171) Sliding Vises, for general purpose clamping of specimens.



Left (95-C1821) and Right (95-C1822) MetKlamp™ Vises, for clamping of specimens such as rods, bars, tubes, etc.



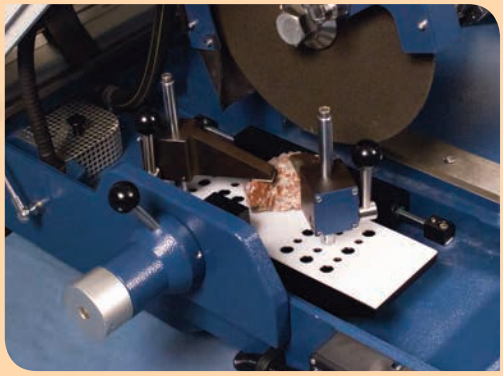
Helpful and convenient, removable basket helps catch small parts when cutting.



10-3531 Speed Vises for clamping of irregularly shaped specimens

Convenient tool storage drawer on the side of the AbrasiMet 250 houses all hand-tools required for setup and operation.

PetroCut™ Vise Table & Rock Clamp Kit:



10-10106-000 PetroCut Vise Table and Rock Clamp Kit (includes PetroCut Vise Table with X-Y positioning, and two Rock Clamps, suitable for incorporation in AbrasiMet™ 250). The PetroCut Vise Table may move 2in [51mm] side-to-side (X-Direction) and 3.125in [79mm] front-to-back (Y-Direction).

10-10106-001 Rock Clamp Kit (includes two replacement Rock Clamps and posts suitable for mounting samples on PetroCut Vise Table)

Adding a PetroCut Vise Table and Rock Clamp Kit to an AbrasiMet 250 converts the general purpose cutter into a highly competent Petrographic or Geological cutting tool.

Specifications

Motor Power & Consumption	4Hp [3kW]
Current	13amps @ 230VAC; 6.5amps @ 460VAC; 7.5amps @ 400VAC
Wheel Speed	2800rpm @ 50Hz; 3400rpm @ 60Hz
Lighting	10 bright, high efficiency LED lights. One 18in [457mm] flexible gooseneck LED light
Sound Rating	≤76 db under no load at a distance of 39in [1m]
Coolant Tank Capacity	7gal [27ℓ]
Abrasive Wheel Diameter & Arbor	10in [254mm] diameter; 1.25in [32mm] Arbor
Maximum Cutting Capacity	3.75in [95mm]
Side Port Dimensions	3 x 3in [76 x 76mm]
Vise Table Dimensions	9.5 W x 9.875in D [240 x 250mm]; 12mm T-slots
Compliance	CE

AbrasiMet™ 250 Abrasive Cutter

- Manual operation, 4Hp
- 10in [254mm] wheel capacity
- 12mm T-Slot stainless steel bed
- Includes mechanical brake
- Compatible with PetroCut™ Vise Table & Rock Clamps

(Recirculating system and vising not included)

Part Number	Voltage/Frequency
10-10106-260	200-240VAC, 60Hz
10-10106-460	440-480VAC, 60Hz
10-10106-250	200-240VAC, 50Hz
10-10106-400	380-400VAC, 50Hz

Approx. Weight: 300 lbs [136kg]

Accessories for AbrasiMet 250

16-1497 Cart with wheels, for recirculating tank
10-3531 Speed Vise Kit
10-3532 Riser Block for Speed Vise
95-C1702 Fastener Vise, for use in sliding vise
10-2170 Left Sliding Vise
10-2171 Right Sliding Vise
95-C1821 Left MetKlamp™ Vise
95-C1822 Right MetKlamp Vise
80-10001 Heavy Duty Table with Cabinet
10-2165-260 Recirculating Tank, 7gal [27ℓ], [200-240VAC, 60Hz]
10-2165-460 Recirculating Tank, 7gal [27ℓ], [380-460VAC, 60Hz]
10-2165-250 Recirculating Tank, 7gal [27ℓ], [200-240VAC, 50Hz]
10-2165-400 Recirculating Tank, 7gal [27ℓ], [380-400VAC, 50Hz]

PetroCut Vise Table & Rock Clamps
10-10106-000 PetroCut Vise Table and Rock Clamp Kit
(includes PetroCut Vise Table, and two Rock Clamps, suitable for incorporation in AbrasiMet 250)

10-10106-001 Rock Clamp Kit
(includes two replacement Rock Clamps and posts suitable for mounting samples on PetroCut Vise Table)

Consumables for AbrasiMet 250

MetAbrase™ Abrasive Wheels 10in [254mm], 10 pack

Recommended Use	Catalog Number
SuperAlloy	12-4205-010
HRC 60+	10-4210-010
HRC 50-60	10-4212-010
HRC 35-50	10-4216-010
HRC 15-35	10-4220-010
Delicate Cutting	10-4227-010
Non-ferrous, hard materials	10-4245-010
Non-ferrous, soft materials	10-4250-010

Cool 2 Cutting Fluid

Size	Catalog Number
33.8oz [1ℓ]	41-10102
1gal [3.8ℓ]	41-10103
5gal [19ℓ]	41-10104

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BUEHLER
An ITW Company

BUEHLER Worldwide Headquarters
41 Waukegan Road
Lake Bluff, Illinois 60044-1699 USA
P: (847) 295-6500
www.buehler.com | info@buehler.com

BUEHLER Germany
info.eu@buehler.com

BUEHLER France
info.fr@buehler.com

BUEHLER United Kingdom
info.uk@buehler.com

BUEHLER Canada
info@buehler.ca

BUEHLER Japan
info.japan@buehler.com

BUEHLER China
china@buehler.com.hk

BUEHLER Asia-Pacific
info@buehler.com.hk

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