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.

**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

**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
### Specifications

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

---

**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.
**Recommended Use**
- SuperAlloy
- HRC 60+
- HRC 50-60
- HRC 35-50
- HRC 15-35
- Delicate Cutting
- Non-ferrous, hard materials
- Non-ferrous, soft materials

**Catalog Number**
- 10-4205-010
- 10-4210-010
- 10-4212-010
- 10-4216-010
- 10-4220-010
- 10-4225-010

**HRC**
- 60+
- 50-60
- 35-50
- 15-35

**10in [254mm]**

**Part Number**
- 10-4205-010
- 10-4210-010
- 10-4212-010
- 10-4216-010
- 10-4220-010

**Catalog Number**
- 12-4205-010
- 10-4210-010
- 10-4212-010
- 10-4220-010
- 10-4225-010

**Cool 2 Cutting Fluid**

<table>
<thead>
<tr>
<th>Size</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>33.8oz [1ℓ]</td>
<td>41-10102</td>
</tr>
<tr>
<td>1gal [3.8ℓ]</td>
<td>41-10103</td>
</tr>
<tr>
<td>5gal [19 ℓ]</td>
<td>41-10104</td>
</tr>
</tbody>
</table>

**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], [380-400VAC, 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
- 10-10106-001 Rock Clamp Kit

**Consumables for AbrasiMet 250**

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

**Recommended Use**
- SuperAlloy
- HRC 60+
- HRC 50-60
- HRC 35-50
- HRC 15-35
- Delicate Cutting
- Non-ferrous, hard materials
- Non-ferrous, soft materials

**Catalog Number**
- 12-4205-010
- 10-4210-010
- 10-4212-010
- 10-4220-010
- 10-4225-010

**Cool 2 Cutting Fluid**

<table>
<thead>
<tr>
<th>Size</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>33.8oz [1ℓ]</td>
<td>41-10102</td>
</tr>
<tr>
<td>1gal [3.8ℓ]</td>
<td>41-10103</td>
</tr>
<tr>
<td>5gal [19 ℓ]</td>
<td>41-10104</td>
</tr>
</tbody>
</table>

**Shop online at www.buehler.com. (US, DE, FR and UK only)**

For a complete listing of consumables, visit our website at www.buehler.com or refer our Product Catalogue. Buehler continuously makes product improvements; therefore technical specifications are subject to change without notice.