

MiniMet™ 1000

Semi-Automatic Grinder-Polisher



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The MiniMet 1000 Grinder/Polisher is designed for low volume laboratories preparing single specimens. This semi-automatic grinder-polisher prepares a wide variety of materials using the three self contained preparation bowls and easy-to-use touch panel controls. Its space saving design employs a proprietary geometric action that combines the advantages of hand as well as mechanical polishing. This motion provides a random polishing action, eliminating any induced polishing artifacts.

Easy to Use

The MiniMet 1000 comes with suggested programs for a wide variety of materials. The easy-to-use controls allow for selection of speed, pressure, time and soft stop capability. Just select the most appropriate

method, key in the parameters and start the system. The MiniMet 1000 completely controls the preparation process and assures complete repeatability. The economically sized polishing bowls, 2.875 [75mm], easily interchange to eliminate cross-contamination problems between preparation steps. No operator expertise is required for obtaining quality results from day one to the next.

Quality Preparation

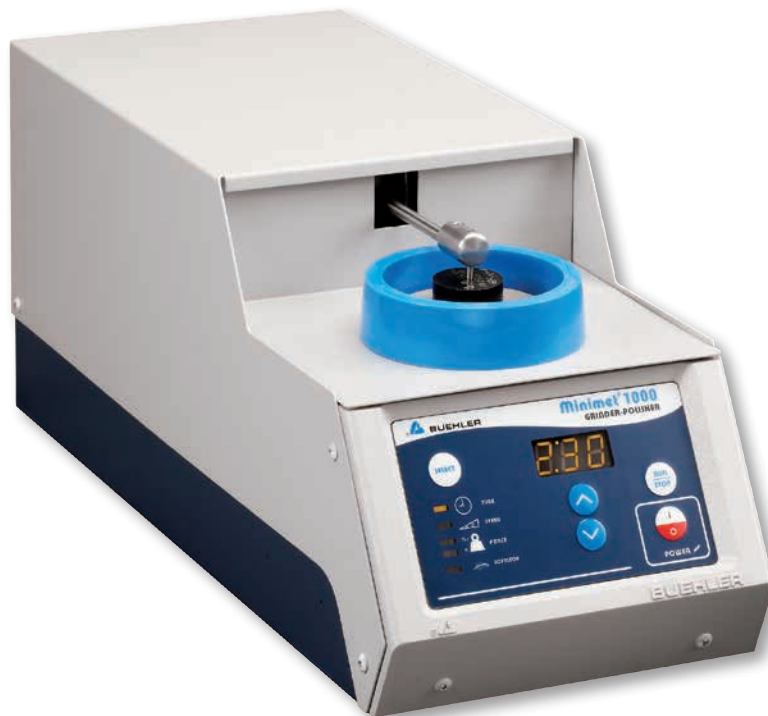
The fully adjustable speed and high pressure capability (2-10 lbs./10-50 N) reduces preparation time and allows the MiniMet 1000 to easily prepare advanced ceramics, composites, and even hardened steel sections. The soft stop feature automatically reduces the sample pressure during the

final polishing sequence, no hand polishing is necessary. This technique is ideal for preparation of softer materials.

Versatile

To increase its versatility, many accessories are available for the MiniMet 1000. Attachments for the precision thinning of materials, wafer polishing, and thin section preparation are available. The system can also utilize the latest BUEHLER SumMet methods.

The MiniMet 1000 offers the latest in ease-of-use, versatility, and economy for the semi-automatic preparation of all materials.





Control Panel features touch-pad controls and LED displays of all grinding/polishing parameters.



Caged Sample Holder facilitates sample preparation without the need to drill a back hole in the sample.



Thin Section Attachment is ideal for automatic preparation of glass slides and geological samples.



Precision Thinning Attachment enables SEM and TEM samples to be prepared.



The IsoMet® Low Speed Saw is an excellent companion to the MiniMet® 1000 Grinder/Polisher including when low deformation sectioning is required prior to polishing.

MiniMet™ 1000

- Perfect for low volume applications
- Simple operation
- Semi-automatic preparation for single mounts

Part Number	Voltage/Frequency
69-1100	85-264VAC, 50/60Hz



Accessories

69-1111	Caged Specimen Holder, for 1in [25mm] or 1.25in [32mm] Mounted Specimens	69-1566	MiniMet 1000 Precision Thinning Attachment
69-1112	Caged Specimen Holder, for 1.5in [38mm] Mounted Specimens	69-1567	Glass Disc, 2.145in [55mm] Diameter (qty 5)
69-1500	Polishing Bowls, 4in [100mm] Diameter (1 each Black, White, Blue)	69-1575	Electro-mechanical Accessories
69-1502	Storage Caddie for MiniMet Bowls (qty 3)	69-1580	MiniMet Thin Section Attachment (includes 3 bowls, glass and section holder)
69-1510	Replacement Glass Discs (qty of 3)	69-1581	Thin Section Bowls, 4.75in [121mm] (1 each Black, White, Blue)
69-1550	MiniMet Alignment Fixture with 3 Drill Bits	69-1582	Thin Section Glass Platens, 4in [100mm] (replacement)
69-1552	Set of 3 Drill Bits (replacement)	69-1583	MiniMet Thin Section Slide Holder, 46 x 27mm
69-1561	Glass Specimen Supports	69-1590	MiniMet Wafer Polishing Attachment
69-1562	Glass Circular Slides, 0.5in [13mm] Diameter (50 pieces)		

Grinding & Polishing Consumables for MiniMet 1000

Abrasive Discs, PSA Backed, 2.875in [73mm] (qty 100)



CarbiMet™ 2 Discs

36-02-0120 – 120 [P120]	127µm
36-02-0180 – 180 [P180]	78µm
36-02-0240 – 240 [P280]	52µm
36-02-0320 – 320 [P400]	35µm
36-02-0400 – 400 [P800]	22µm
36-02-0600 – 600 [P1200]	15µm

MicroCut™ Discs

36-02-0800 – 800 [P1500]	13µm
36-02-1200 – 1200 [P2500]	8µm

Premium Polishing Cloths, PSA Backed, 2.875in [73mm] (qty 20)



Coarse

40-7442	UltraPol™
40-7052	Nylon

Intermediate

40-1102	TexMet™ C
40-7502	TriDent™

Fine

40-7212	MicroCloth™
40-7702	MasterTex™
40-7902	ChemoMet™



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.