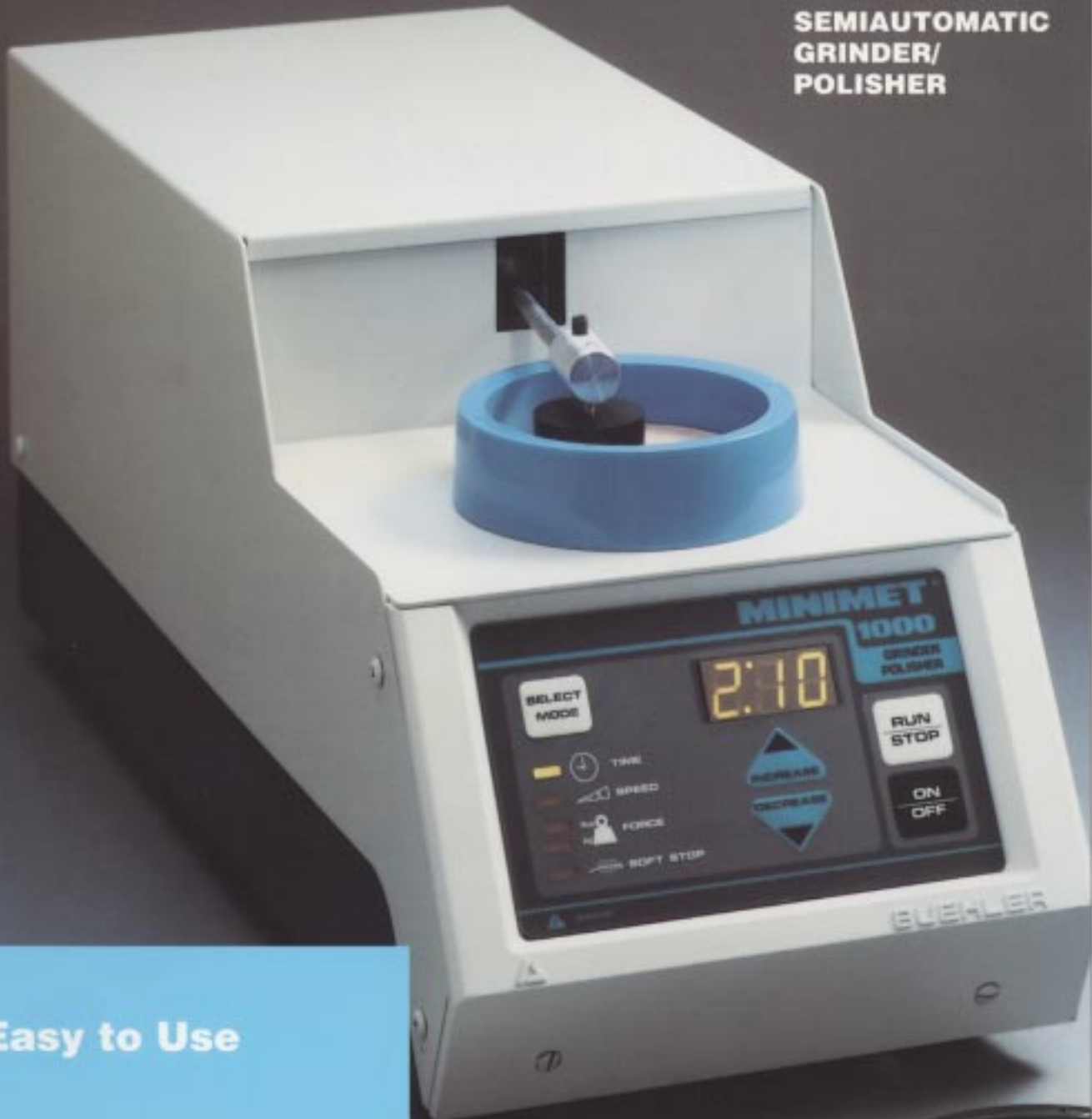


**SEMI-AUTOMATIC
GRINDER/
POLISHER**



Easy to Use

Versatile

**High Pressure
Capability**

**Soft Start/Stop
Function**

**Consistent
Results**



MINIMERT® 1000

BUEHLER®



All New, Easy to Use, and Versatile.



The all new MINIMET® 1000 Grinder/Polisher is a microprocessor-controlled sample preparation system that quickly prepares materials for cross-sectional analysis. Its space saving design employs a patented geometric action that combines the advantages of hand lapping as well as mechanical polishing. This motion provides a random polishing action, thus eliminating any induced directional polishing artifacts.

Easy To Use

The new 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 for the first step, and start the system. The MINIMET 1000 completely controls the

preparation process and assures complete repeatability. The economically sized polishing bowls (2 7/8") easily interchange to eliminate cross-contamination problems between preparation steps. No operator expertise is required for obtaining quality results from day one.

Quality Preparation

The fully adjustable speed and high pressure capability (2-10 lbs./10-50 Newtons) reduces preparation time and allows the MINIMET 1000 to easily prepare advanced ceramics, composites, and even large 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, electromechanical polishing, and thin section preparation are available. The system can also utilize the latest BUEHLER DIALOG® methods which incorporate METLAP® Platens and METADI® Diamond Suspensions.

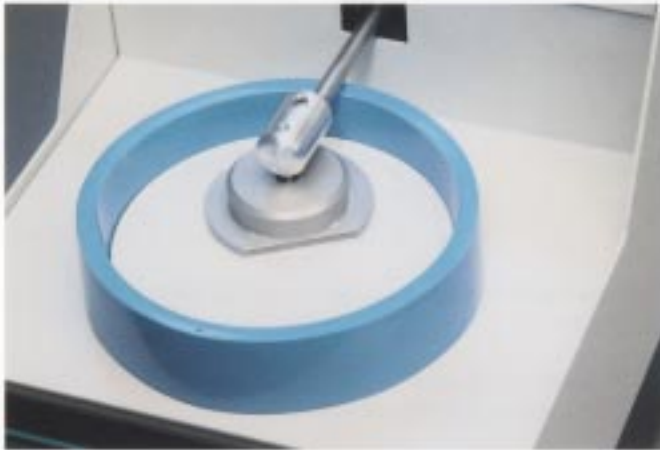
The MINIMET 1000 offers the latest in ease-of-use, versatility, and economy for the semiautomatic preparation of all materials.



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



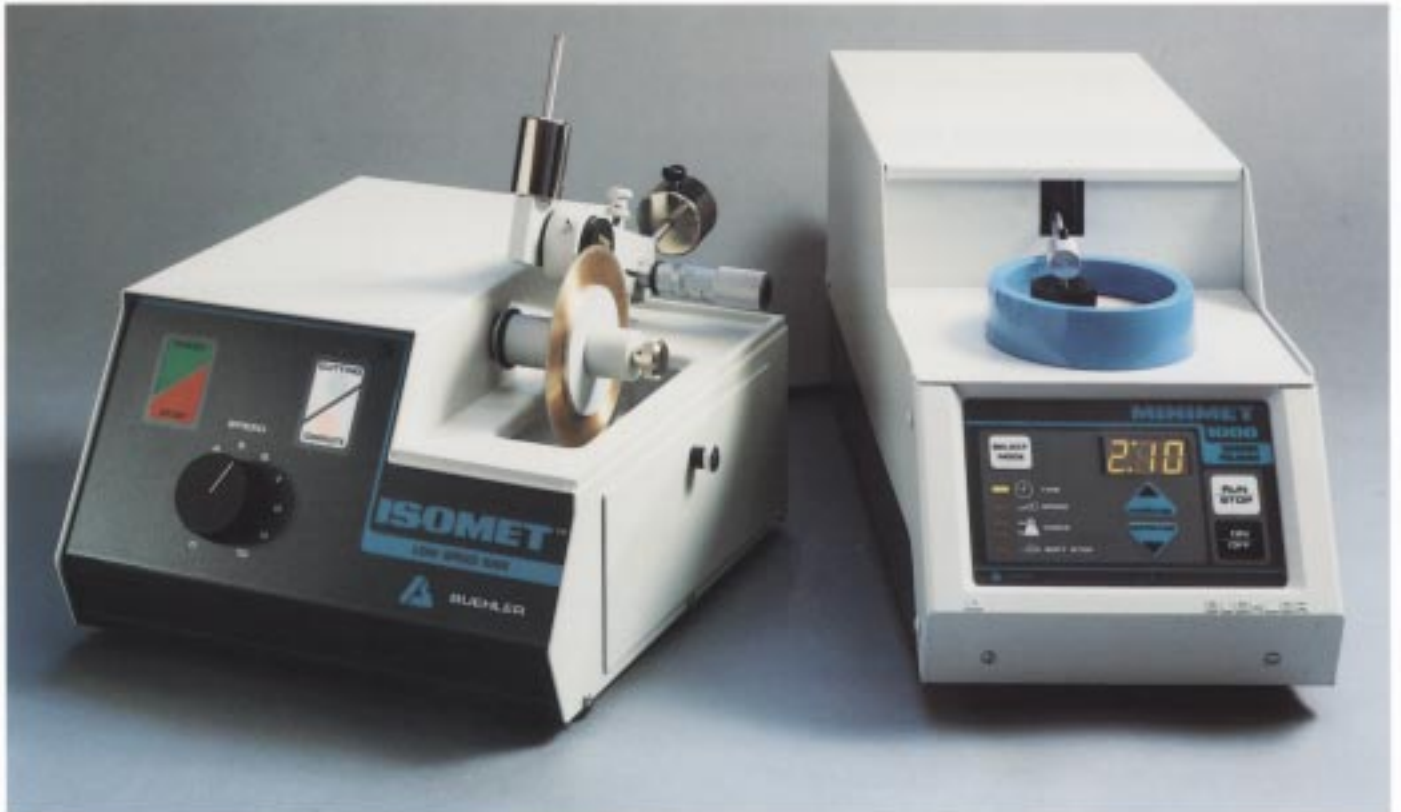
Caged Sample Holder facilitates sample preparation without the need to drill a back hole in the sample.



Thin Section Attachment is ideal for automatic preparation of 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.

Product Specifications

No. 69-1100 MINIMET® 1000 Grinder/Polisher, microprocessor controlled, with on-off switch, variable load display in pounds or newtons, selectable soft stop function, variable speed control, and automatic timer. Complete with three polishing bowls (one each black, white, blue), three glass platens, samples of CARBIMET® Paper and polishing cloth, and operating instructions. For worldwide operation on 85-264V/50-60 Hz/single phase. Overall dimensions: 7" W x 16" D x 8" H (18cm x 40cm x 20cm). Approximate shipping weight: 25 lbs. (11kg).

Accessories

No. 69-1111 Caged Sample Holder, for 1" (25mm) or 1 1/4" (32mm) mounts.

No. 69-1112 Caged Sample Holder, for 1 1/2" (38mm) mounts.

No. 69-1500 Polishing Bowls (set of 3), 1 each: black, white, blue.

No. 69-1501 Polishing Bowls (set of 3), 1 each: yellow, green, red.

No. 69-1502 Storage Caddies, for MINIMET Bowls, set of 3.

No. 69-1510 Glass Platens (set of 3), for Polishing Bowls.

No. 69-1550 Sample Alignment Fixture, with 3 drill bits.

No. 69-1552 Drill Bits (set of 3), replacement.

No. 69-1566 MINIMET Precision Thinning Attachment, complete with upper platen with micrometer adjustment, lower platen and bearing race. Operating instructions.

No. 69-1570 MINIMET Electromechanical Attachment, complete with bowl, anode and cathode connectors and 10 volt ELECTROMET® Power Supply for 115V/60Hz/1 phase. Operating instructions.

No. 69-1580 Thin Section Attachment (set of 3), 1 each: black, white, blue, 3 glass platens, and slide holder for 27mm x 46mm slides. Operating instructions.

No. 69-1581 Thin Section Bowls (set of 3), one each black, white, blue.

No. 69-1582 Thin Section Glass Platens (set of 3), replacement.

No. 69-1583 MINIMET Thin Section Slide Holder, for 27mm x 46mm slides.

No. 69-1590 MINIMET Wafer Polishing Attachment, with adjustable thickness control for 1" (25mm) diameter wafers. Operating instructions.

METLAP® Platens for use with MINIMET 1000 Polisher

METLAP 2 Platen	69-1602
METLAP 4 Platen	69-1604
METLAP 6 Platen	69-1606
METLAP 8 Platen	69-1608
METLAP 10 Platen	69-1610

For complete information about consumable supplies, see the BUEHLER ANALYST®, Section 7.

