



**BUEHLER®**  
**ECOMET® 3**  
 VARIABLE SPEED  
 GRINDER/POLISHER

The ECOMET® 3 Variable Speed Grinder/Polisher is designed to give you everything you need in an 8" grinding and polishing machine for microstructural analysis, from manual to programmable automatic applications. The ECOMET® 3 features all-new table top styling and offers variable speeds from 50-500 rpm with LED speed display, to accommodate virtually any sample preparation requirement. Each unit is equipped with an 8" (20.3cm) low profile, non-conductive, chemically inert PVC wheel with a new universal BUEHLER mount.

The ECOMET® 3 is easy to operate and utilizes a low maintenance, easily serviced design layout.

All ECOMET® 3 units incorporate the following high-tech features:

- Space-age corrosion and impact resistant reaction-injection-molded (RIM) cabinet
- Molded-in bowl and drain to eliminate water leakage; bowl is pitched to promote drainage

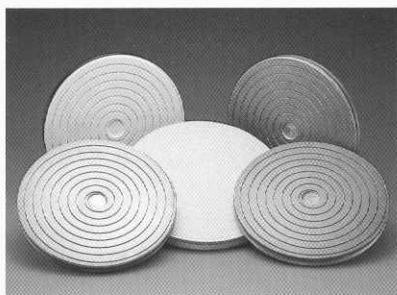
- Bowl flush jet to prevent build-up of grinding/polishing residue
- Reliable high-tech electronic circuitry operated through touch-pad switches to control motor operation, speed and water supply
- Parameter memory which retains the last speed setting after the Motor run/stop switch is turned off
- Constant wheel speed maintained under all load conditions
- New drive system which maximizes wheel support and eliminates wheel instability
- High torque, 1 horsepower DC motor with heavy duty gear-box for long-life, trouble-free operation
- Ability to interface with AUTOMET® 2 Power Head and METLAP™ 1 Programmable Fluid Dispensing System
- Accepts entire spectrum of new BUEHLER® Polishing Wheels and METLAP™ Platens

If you need an 8" grinder/polisher that "has it all", specify the ECOMET® 3 Variable Speed Grinder/Polisher for your laboratory!

**BUEHLER® ECOMET® 3**



Front panel controls utilize illuminated touch-pad switches, digital LED parameter readouts and bar graphs.



The full range of METLAP™ Platens can be utilized with the ECOMET® 3.



The ECOMET® 3 can be interfaced with the AUTOMET® 2 Power Head and METLAP® Programmable Fluid Dispensing System for the ultimate in medium to high volume sample preparation.

## Specifications

**No. 49-1750-160 ECOMET® 3 Variable Speed Grinder/Polisher, 8" (20.3cm),** table-top corrosion and impact resistant RIM cabinet with molded-in bowl and drain, bowl flush jet, pop-up swing faucet with electrically operated flow control valve, variable speed from 50-500 rpm in 10 rpm increments, maintains constant speed under all load conditions, digital LED speed display, touch-pad controls including illuminated Power on/off switch, Motor Speed control, Motor run/stop switch with built-in memory for returning to previous speed setting and Water on/off switch, cover and removable splash ring, 1 HP (740W) variable speed gear driven DC motor, cord and plug. Complete with No. 40-4060 non-conductive PVC wheel, cloth clamp and paper holding band, samples of CARBIMET® Paper and polishing cloths. Operating instructions. For 115V/60Hz/1 phase operation.

**No. 49-1750-250 ECOMET® 3 Variable Speed Grinder/Polisher,** same as No. 49-1750-160, but for operation on 220-240V/50Hz/1 phase operation.

**Dimensions:** 13<sup>1</sup>/<sub>8</sub>" W × 26<sup>7</sup>/<sub>8</sub>" D × 9" H  
(33.3cm × 68.1cm × 22.9cm)

**Shipping Weight:** 78 lbs. (35.5 kg.)

## Accessories

**No. 30-2008 Paper Holding Band,** for 8" (20.3cm) dia. wheels.

**No. 40-2058 Cloth Clamp,** for 8" (20.3cm) dia. wheels.

**No. 40-4060 PVC Wheel,** 8" (20.3cm) dia. extra.

**No. 40-4061 Aluminum Wheel,** 8" (20.3 cm) dia.

**No. 40-4062 Bronze Wheel,** 8" (20.3cm) dia.

### AUTOMET® 2 Power Head

Turn your ECOMET® 3 into a high volume sample preparation system with the addition of an AUTOMET® 2 Power Head which permits automatic preparation of from 3 to 6 specimens simultaneously. A range of specimen holders is available to accommodate a variety of specimen sizes and shapes.

### METLAP™ 1 Programmable Fluid Dispensing System

If your sample preparation application requires automatic dispensing of abrasive slurries and lubricant/extenders, the METLAP™ 1 Programmable Fluid Dispensing System is the accessory for you. Its microprocessor control lets you dispense two fluids in timed sequence or up to 8 fluids with the addition of METLAP™ 1 Expansion Modules.

### METLAP™ Platens

To prepare your samples using the revolutionary new BUEHLER DIALOG™ concept, specify METLAP™ Platens. With METLAP™ Platens you will get top quality results with virtually all engineering materials in less time than it takes to prepare them by conventional methods.

For a complete listing of BUEHLER® Consumable Supplies for use with the ECOMET® 3 Variable Speed Grinder/Polisher, refer to BUEHLER ANALYST®, Section 7.



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