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 buildup 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 gearbox 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!
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: 13¾" W x 26½" D x 9" H (33.3cm x 66.1cm x 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.