



**BUEHLER®**  
**AUTOMET® 2**  
 POWER HEAD

The AUTOMET® 2 Power Head from BUEHLER will convert any ECOMET® 2, 3, 4 or 5 Grinder/Polisher into an automatic sample preparation system for medium to high volume applications. All functions of the AUTOMET® 2 are electronically controlled, eliminating the need for compressed air, hydraulic fluids or compression springs. A unique single post mounting design houses all electrical cabling so that there are no visible cords, cables or tubing after the AUTOMET® 2 has been installed.

The AUTOMET® 2 offers outstanding design features including:

- Corrosion and impact resistant reaction-injection molded (RIM) housing with high strength cast aluminum base structure
- Electronic touch-pad controls including LED-illuminated function switches

- Parameter memory which retains the last force and time settings after the AUTOMET® 2 is switched off
- Quick-locking swing away mounting design for use of AUTOMET® 2 with 8" and 12" BUEHLER® grinder/polishers
- Specimen holders to accommodate a wide variety of sample shapes and sizes for use with either 8" or 12" grinder/polishers
- Convenient AUTOMET® 2 Mounting Chuck for ease of attachment and removal of specimen holders

The AUTOMET® 2 Power Head gives you the productivity you need for efficient, high-volume sample preparation!

**BUEHLER® AUTOMET® 2**

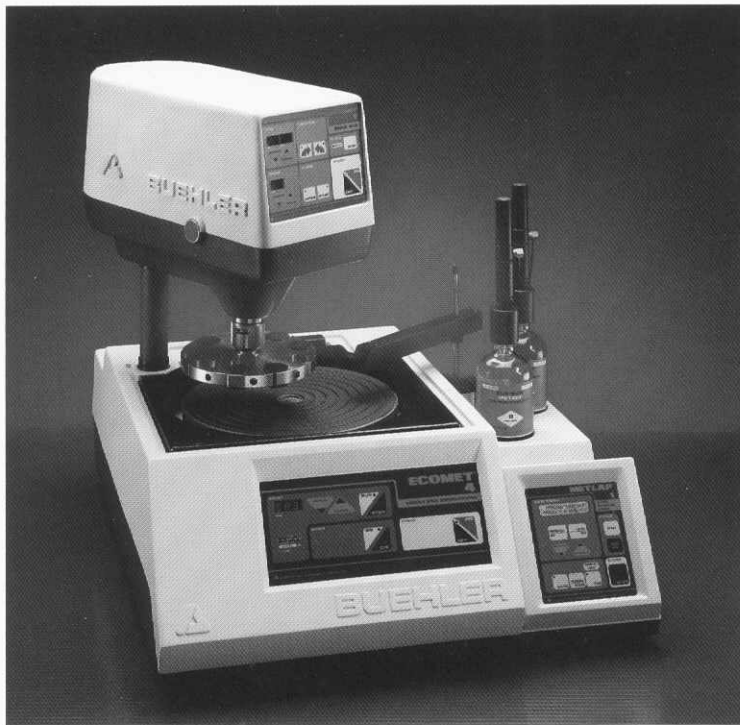
Controls are provided for presetting cycle time and sample pressure. Time can be preset from 0 to 99 minutes, 59 seconds. Actual operating time is displayed on a digital LED readout and the timer counts down from preset time to zero during operation. Force can be preset from 1 lb. to 60 lbs. in 1 lb. increments. Actual applied force is displayed on a digital LED readout. A fast increase/decrease control speeds up the process of presetting the desired time and pressure values. Sample carrier rotational direction can also be controlled with the AUTOMET® 2 Power Head. An LED light located on the function switch indicates the chosen direction. Fluids used in the sample preparation process are also controlled from the Power Head Control Panel. The operator can choose water or can interface the AUTOMET® 2 Power Head with the BUEHLER® METLAP® Programmable Fluid Dispensing System for automatic sequential dispensing of water plus from 2 to 8 fluids such as slurries, suspensions or lubricants. Dual start controls keep operators' hands safely away from moving parts when starting the AUTOMET® 2 Head.



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



The AUTOMET® 2 Power Head will interface with ECOMET® 2, ECOMET® 3, ECOMET® 4 and ECOMET® 5 Grinder/Polishers and all 8" and 12" table-mounted ECOMET® Grinder/Polishers.



AUTOMET® 2 Power Head with ECOMET® 4 Variable Speed 12" Grinder/Polisher and METLAP® Programmable Fluid Dispensing System.

Together with the ECOMET® 4 Variable Speed Grinder/Polisher, METLAP® Programmable Fluid Dispensing System and METLAP® Platens, the AUTOMET® 2 Power Head becomes the hub of a highly productive sample preparation facility. This equipment configuration is capable of producing material specimens of exceptional planarity and structural integrity, using the new BUEHLER DIALOG® sample preparation methods.

## Specifications

**No. 60-1950-160 AUTOMET® 2 Power Head**, with electronic strain gauge controlled application of force, variable from 1 to 60 lbs. in 1 lb. increments, RIM cabinet mounted on aluminum alloy base structure, touch-pad controls with LED indicators for control of time, force, head direction and fluid selection, time variable from 0 to 99 minutes 59 seconds, illuminated Power on/off switch, 1/20 HP (37W) AC gear motor to rotate sample holder at 30 rpm, 1/20 HP (37W) DC motor for raising and lowering the specimen holder and applying force, gear driven, cable-free quick locking single post mounting design. Includes mounting post, 60-2425 Loading Plate, AUTOMET® 2 Chuck and operating instructions. For 115V/60Hz/1 phase operation.

**Specimen Holders, Loading Fixture and Pressure Plates supplied separately** (select from lists below and on back page).

**No. 60-1950-250 AUTOMET® 2 Power Head** same as above but for 220-240V/50Hz/1 phase operation, sample holder rotation at 25 rpm.

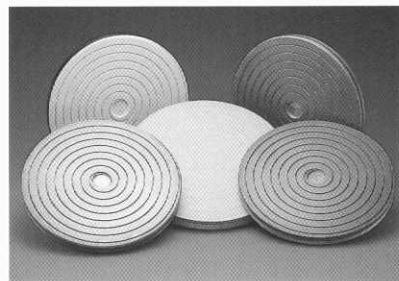
**Dimensions:** 7 1/2" W x 16 1/2" D x 16 1/2" H\*  
(19 cm x 41.9 cm x 41.9 cm)  
\*Height from platen surface to top of Power Head

**Shipping Weight:** 40 lbs. (18.2 kg)

## Accessories

**No. 60-2400 Loading Fixture**, for all AUTOMET® 2 and 3 Specimen Holders. **Pressure Plate (required) supplied separately**; select from back page to match Specimen Holder.

**No. 60-2425 Loading Plate**, extra, for all AUTOMET® 2 and 3 Specimen Holders, Series 60-2400 and 60-5200.



The full range of METLAP® Platens can be utilized with the AUTOMET® 2 Power Head.