



# ElectroMet™

## Polisher-Etchers

The ElectroMet 4 is an electro-polishing and etching system with interchangeable cathodes and etching cell. Electrolytic sample preparation provides an efficient method for final polishing and etching of metal alloys including stainless steel, aluminum, titanium, copper and many more. The ElectroMet 4 electro-polisher/etcher is designed for optimal performance and ease of operation. It consists of a power source, a polishing cell, an etching cell, a specimen stand, and other accessories.



### Convenience

- Digital LED displays time, voltage, current, polish/etch cycles, pump speed, and temperature
- Parameter memory to automatically reset operating conditions
- Polishing and etching time settings from 1-60 minutes in 1-second intervals
- Automatically switches from polishing to etching modes
- Load simulation mode to facilitate preselection of polishing and etching parameters

### Durability

- Corrosion and impact resistance molded cabinets
- Solid state design with electronic controls and membrane touch interface
- 1KVA system with isolation transformer

### Flexibility

- Glass-filled polyethylene masks allows for selective polishing/etching
- Variable pump speed for electrolyte dispersion
- Includes copper and stainless steel cathodes
- External cell with 200ml capacity for multiple electrolyte solution
- Adjustable anode arm accommodates samples up to 5in [127mm] and fixture for uncounted specimens

### Safety

- Electrolyte temperature and current monitoring to ensure consistent results and maximum safety
- Current overload shut-off and LED fault indicator prevent excess amperage draw
- Cooling coils positioned within the tank for automatic temperature control

## ElectroMet™ 4 Polisher-Etcher

- Efficient electro polishing system
- Parameter retention
- Etching system reveals microstructure quickly

**Installation Requirements:** Power - 115VAC, 60 Hz; Water - N/A; Air - N/A

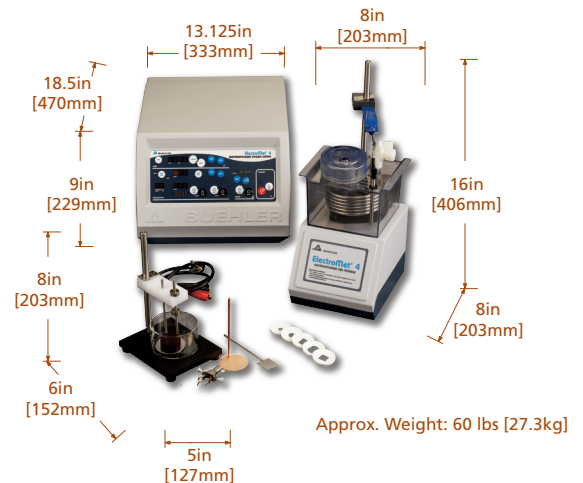
**Includes:** Power Source, Etching Cell, Stainless steel and copper cathodes, Power cord, Operating instructions

Part Number	Voltage/Frequency
70-1830-115*	115VAC, 60Hz
70-1830-220*	220-240VAC, 50Hz

\*Not available in Europe

### Accessories

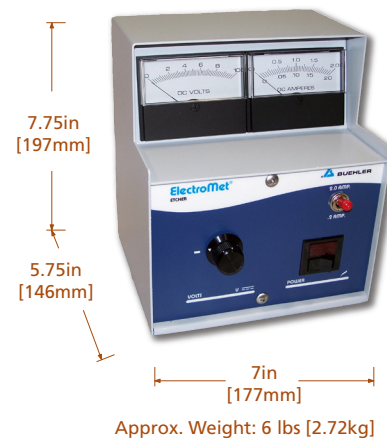
70-1832 ElectroMet 4 Polishing Cell



## ElectroMet™ Etcher

Part Number	Voltage/Frequency
70-1710*	115VAC, 50/60Hz

\*Not available in Europe



## Accessories for ElectroMet & ElectroMet 4

- 70-2015 Masks (qty 5)
- 70-2100 Stainless Steel Cathodes
- 70-2105 Copper Cathode
- 70-3100 Etching Cell

For a complete listing of consumables, visit our website at [www.buehler.com](http://www.buehler.com) or refer our Product Catalogue. Buehler continuously makes product improvements; therefore technical specifications are subject to change without notice.



**BUEHLER Worldwide Headquarters**  
**North America-South America Offices**  
 41 Waukegan Road  
 Lake Bluff, Illinois 60044-1699 USA  
 P: 800 BUEHLER (800-283-4537)  
 P: (847) 295-6500  
[www.buehler.com](http://www.buehler.com) | [info@buehler.com](mailto:info@buehler.com)

**European Headquarters**  
**BUEHLER Germany**  
[info.eu@buehler.com](mailto:info.eu@buehler.com)  
**BUEHLER France**  
[info.eu@buehler.com](mailto:info.eu@buehler.com)  
**BUEHLER United Kingdom**  
[info.eu@buehler.com](mailto:info.eu@buehler.com)

**BUEHLER China**  
[info.cn@buehler.com](mailto:info.cn@buehler.com)

**BUEHLER Japan**  
[info.japan@buehler.com](mailto:info.japan@buehler.com)

**BUEHLER Asia-Pacific**  
[info.asia@buehler.com](mailto:info.asia@buehler.com)