

Micropol

Polisher for TEM & Metallography Model MC 2

- Rugged, corrosion proof construction
- Variable speed control for precision polishing
- Quick change bayonet mount bowls
- Timer for automatic operation
- Extremely light load for fragile TEM samples



Micropol polisher is a compact, versatile, electrically controlled, precise mechanical specimen grinder/polisher designed for planar grinding, dimpling, thinning and polishing of specimens in the fields of nanotechnology, semiconductors and material science. The parameters of polishing (speed, load, time, etc.) can be matched according to the properties of the specimen. High quality samples are prepared with minimal efforts by the operator.

APPLICATION

While the Micropol MC 2 is well suited for metallographic polishing, it has been specially designed for precision TEM polishing applications. Two types of specimen holders are provided with each unit that makes it ideal for the preparation of both planar and dimpled samples, respectively.

OPERATION

The arm of Micropol moves the specimen holder or the specimen itself in a semi-random geometric pattern gently pressing it to the bottom of a bowl containing suitable abrasive material. The abrasive material can be grinding paper or suspensions of polishing compound deposited on polishing cloth.

SPECIFICATIONS

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| • Power supply | 100-240 V AC, 50-60 Hz |
| • Power consumption | max. 85 W |
| • Moving speed of the arm | 30 – 60 scans/min, electronically adjustable |
| • Load | 0 – 5 N, mechanically adjustable |
| • Timing | 1 – 3600 sec, electronically adjustable |
| • Maximum sample size | about 10-15 mm in diameter |
| • Moved mass | max. 150 g |
| • Dimensions | 251 mm x 220 mm x 181 mm |

SYSTEM CONFIGURATION

- Main unit
- Accessories shipped with the equipment:
 - Flat plastic polishing bowls – 4 pieces
 - Spherical bowls for dimpling: Cu, Al, plastic lining, empty bowl – 1-1 piece each
 - Specimen holder for flat bowl – 1 piece
 - Specimen holder for spherical bowl – 1 piece
 - Thickness Measuring Kit
 - Starting Kit of Consumables (abrasive papers, polishing cloth, samples of abrasive diamond pastes and thermoplastic wax)