

MICROPOL

Polisher for TEM & Metallography
Model MC 3



- 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 and smaller SEM 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 3 is well-suited for metallographic polishing, it has been specially designed for precision TEM polishing applications. The two types of specimen holders that are provided with each unit allow the operator to make both planar and dimpled samples for SEM and TEM imaging, 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 input | 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 x 220 x 181 mm |