

TL-MC1 MicroPol Polisher



Introduction

The MicroPol polisher is a small, versatile mechanical fine grinder and polisher which combines the advantages of both manual and automatic polishing. The parameters of polishing (speed, load, time etc.) can be matched according to the properties of the specimen. High quality samples can be prepared with minimal effort by the operator.

Application

While the MicroPol TL-MC1 is well suited for metallographic polishing, it has been specially

designed for precision TEM polishing applications. Four specially designed TEM sample holders are available which make it ideal for the preparation of both plan view and cross sectional HREM samples. A 1" diameter stainless steel mounting block is also supplied which simplifies processing of samples for applications including optics, mineralogy, quality control and failure analysis.

Operation

The arm of the MicroPol moves the specimen holder or the specimen itself in a random geometric pattern gently pressing it to the bottom of a bowl containing suitable abrasive material. The abrasive material can be grinding paper, abrasive films or loose abrasives on either a polishing cloth or copper platen.

Specifications

Dimensions: 251mm x 210mm x 181mm

Power: 100V - 240V 50/60 Hz

Power Consumption: 85W maximum

Timer: 6 to 180 seconds - electronically adjustable

Load: 0-5 Newtons - mechanically adjustable

Sample Size: 35mm diameter x 20mm maximum

Arm Speed: 30-60 scans/minute – electronically adjustable

- ? Rugged, Corrosion proof construction
- ? Variable speed control for precision polishing
- ? Quick Change bayonet mount bowls
- ? Utilizes economically sized cloths
- ? Large 35mm maximum sample size
- ? Timer for automatic operation
- ? 4 precision TEM sample holders available
- ? Extremely light load for fragile TEM samples

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