

BUEHLER® MicroPrecise™ TRI-POINT POLISHER KIT

- Wedge Polishing and Cross-Sectioning Kit for TEM, SEM, and LOM Sample Preparation
- Mounting Bracket with Retractable Support for Inverted Stage Microscope Viewing
- Adjustable Support Leg for Stereo Microscope Viewing
- Available with Standard or Stainless Steel Micrometers



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MicroPrecise™ Tri-Point Polisher Kits are designed for accurately polishing wedge samples with submicron features. Electron transparency thickness can be reached for TEM analysis. Wedge polishing reduces the need for ion milling by mechanically thinning the area of interest, to 0.1µm or less. These polishing kits are recommended for material applications involving microelectronics, metals, ceramics, minerals, and composites.

The first step in preparing a TEM sample is to mount one on the SEM Paddle and cross-section to the feature of interest with a series of lapping films. After examination, the cross-section is remounted on a polymer or glass insert and placed in the Wedge Mount Assembly for polishing. Both the SEM Cross-Sectioning Paddle and the Wedge Mount Assembly can be removed and returned to the polisher's body to continue the preparation process without loss of planarity.

Proprietary polymer inserts form a superior bond with cyanoacrylate adhesives resulting in increased sample adhesion. Glass inserts are used with thermal mounting media. Both inserts allow for back illumination of the sample to monitor sample thickness and wedge angle. Precise control of the wedge angle is accomplished by a tri-point formed between the sample and two micrometer adjusted feet. Locking micrometers are offered in two kit formats: standard rotating and stainless steel rotating.

60-5300 MicroPrecise Tri-Point Polisher Kit with 2 standard micrometers, includes polishing body, 2 standard micrometers, mounting bracket with retractable support, 2 replaceable polymer micrometer feet, wedge mount assembly, adjustable support leg, 4 SEM cross-sectioning paddles, 5 polymer inserts for wedge polishing, 2 glass inserts for wedge polishing, 40-8152 TEM adhesive, 40-8150 mounting wax, hex wrench set, one glass slide, storage case, and operating instructions.

60-5301 MicroPrecise Tri-Point Polisher Kit, same as 60-5300, but with two rotating stainless steel micrometers.

The illustrated EcoMet® Grinder-Polisher is supplied separately.

Grinder-Polisher Options*

49-1760 EcoMet® 3000 Variable Speed Grinder-Polisher, 8" (203mm), speed range 10-500rpm in 10rpm increments

49-1760SS EcoMet® 3000 Variable Speed Grinder-Polisher, 8" (203mm), with low speed gearbox, speed range 1-50rpm in 1rpm increments

MicroPrecise Tri-point Polisher Kit Components

60-5103	Precision 8" (203mm) Plain Glass Wheel
60-5116	Precision 12" (305mm) Plain Glass Wheel
60-5133	2 Glass Slides 3" x 2" (75mm x 50mm x 1mm)
60-5306	Precision Standard Steel Locking Micrometer
60-5307	Precision Stainless Steel Locking Micrometer
60-5310	Wedge Mount Assembly
60-5311	Polymer Micrometer Feet, Replacement (2 per package)
60-5312	Glass Inserts for Wedge Polishing (2 per package)
60-5313	SEM Cross-Sectioning Paddle, 1/8" (3.2mm) Arbor
60-5314	Polymer Inserts for Wedge Polishing (2 per package)

Accessories and Consumables

40-8150	Mounting Wax, Crystal Bond
40-8152	TEM Adhesive Cyanoacrylate
60-6049	Tweezer, Self Locking Fine Point
60-6051	Tweezer 1, Fine General Purpose
60-6052	Tweezer 2, Short Fine Point
60-6053	Tweezer 3, Long Fine Point
60-6061	Probe 1, Straight
60-6070	Wire Nippers, Precision
60-6075	Abrasive Film Applicator, 4" Roller

Buehler recommends the use of UltraPrep™ Diamond Lapping Film with the MicroPrecise Tri-point Polisher Kits.

** For a complete listing of Buehler Equipment and Consumables, please refer to our Buehler Equipment and Consumables Buyer's Guides. Buehler continuously makes product improvements; therefore, technical specifications are subject to change without notice.*



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