



MODEL 1060

SEM Mill

A state-of-the-art ion milling and polishing system. It is compact, precise, and consistently produces high-quality scanning electron microscopy (SEM) samples for a wide variety of applications.

Model 1060 SEM Mill Specifications

Ion sources

Two TrueFocus ion sources
Variable energy (100 eV to 6.0 keV) operation
Beam current density up to 10 mA/cm²
Choice of single or dual ion source operation
Independent ion source energy control (premium edition option)

Specimen stage

Milling angle range of 0 to +10°
Sample size of 1 in diam x 0.59 in height (25 mm diam x 15 mm height)
Automatic height sensing
360° sample rotation
Specimen rocking

Vacuum system

Turbomolecular drag pump and an oil-free diaphragm pump
Vacuum sensing with a Pirani gauge

Process gas

Argon, 99.999% purity
Flow rate approximately 0.2 sccm/ion source, nominal 15 psi delivery pressure required
Automatic gas control using two mass flow controllers

Pneumatic supply

Argon, liquid nitrogen, or dry air; nominal 60 psi delivery pressure required

Sample illumination

User selectable reflected lighting

Automatic termination

Automatic termination by timer

Model 1060 SEM Mill Specifications

User interface	<p><i>Basic edition</i></p> <p>Touch screen-embedded module for primary-level instrument functionality</p> <p><i>Premium edition</i></p> <ul style="list-style-type: none">• Touch screen-embedded module for primary-level instrument functionality• PC-based, fully programmable milling cycles with system status displayed• Operation indicator stack light (optional)
Microscope (optional)	<p>Load lock window accommodates a 7-45 X stereo microscope attachment for direct sample observation and a 2,000 X high-magnification microscope and camera system for site specific image acquisition and display</p>
Dimensions	<p><i>Basic edition</i></p> <p>27 in (69 cm) width x 15 in (38 cm) height (to top of cabinet) x 29 in (74 cm) height (to top of microscope) x 20 in (51 cm) depth</p> <p><i>Premium edition</i></p> <p>42 in (107 cm) width (including computer display) x 15 in (38 cm) height (to top of cabinet) x 29 in (74 cm) height (to top of microscope) x 20 in (51 cm) depth</p>
Weight	161 lb (73 kg)
Power	100/120/220/240 VAC, 50/60 Hz, 720 W
Warranty	One year



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