



MODEL 1050

TEM Mill

A state-of-the-art ion milling and polishing system. It is compact, precise, and consistently produces high-quality transmission electron microscopy (TEM) specimens with large electron transparent areas from a wide variety of materials.

Model 1050 TEM Mill Specifications

Ion sources	<p>Two TrueFocus ion sources</p> <p>Variable energy (100 eV to 6.0 keV) operation</p> <p>Beam current density up to 10 mA/cm²</p> <p>Choice of single or dual ion source operation</p> <p>Independent ion source energy control (premium edition option)</p>
Specimen stage	<p>Milling angle range of -10 to +10°</p> <p>360° specimen rotation with motion sequencing</p> <p>Specimen rocking</p>
Specimen cooling (optional)	<p>Liquid nitrogen conductive cooling with integral dewar and automatic temperature interlocks</p>
Vacuum system	<p>Turbomolecular drag pump and an oil-free diaphragm pump</p> <p>Vacuum sensing with a Pirani gauge</p>
Process gas	<p>Argon, 99.999% purity</p> <p>Flow rate approximately 0.2 sccm/ion source, nominal 15 psi delivery pressure required</p> <p>Automatic gas control using two mass flow controllers</p>
Pneumatic supply	<p>Argon, liquid nitrogen, or dry air; nominal 60 psi delivery pressure required</p>
Specimen illumination	<p>Independently actuated transmitted and reflected lights</p>
Automatic termination	<p>Automatic termination by timer, temperature, or laser detector (optional)</p>

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User interface	<i>Basic edition</i> Touch screen-embedded module for primary-level instrument functionality
	<i>Premium edition</i> <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)	Load lock window accommodates a 7-45 X stereo microscope attachment for direct specimen observation and a 2,000 X high-magnification microscope and camera system for site specific image acquisition and display
Dimensions	<i>Basic edition</i> 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
	<i>Premium edition</i> 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
Weight	161 lb (73 kg)
Power	100/120/220/240 VAC, 50/60 Hz, 720 W
Warranty	One year



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Patents pending.
Document Number SP1050 Revision 00 07/2013