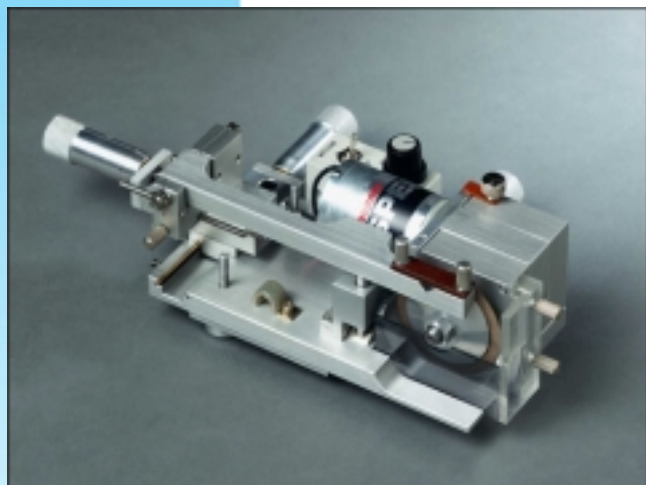


TL-MS1 MicroSaw



The MicroSaw is a small, versatile diamond wheel saw which is designed for cutting small pieces for TEM specimen preparation. It can be used under a standard stereo microscope which allows for precise positioning of specimens during cutting. The compact structure and ease of operation allows the user to reproducibly and rapidly prepare a section prior to thinning for TEM. Thin sections of ceramic materials, semi-conductors, and hard metals all can be sectioned with 0.01 micron accuracy.

Operation

The Model TL-MS1 is driven by an electric motor through a helical transmission. The 12 VDC is provided by the power supply subunit and the speed at which the wheel turns is adjustable in six different speed increments. Several different adjustments relative to the diamond cutting wheel can be made during operation. Adjustment of the specimen position and contact point of the arm can be accomplished. The tension of the arm can also be adjusted, as well as the downstop control for the arm. Two adjustment screws at the bottom of the instrument allow height adjustment of the stand, providing a method for leveling the MicroSaw underneath the stereo optical microscope.

Specifications:

Input power 3-12 VDC/2A
 Power consumption max. 25W
 Dimensions 250 mm x 150 mm x 80 mm
 Diamond wheel size: 2" diameter; 0.006" thick
 Diamond particle size: 50-70 microns
 Wheel Rotation: 150 rpm
 Maximum Sample Size: 6mm
 Minimum slice thickness: ~ 100 microns
 Travel ranges: X=25mm Y=25mm Z= 20mm

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