

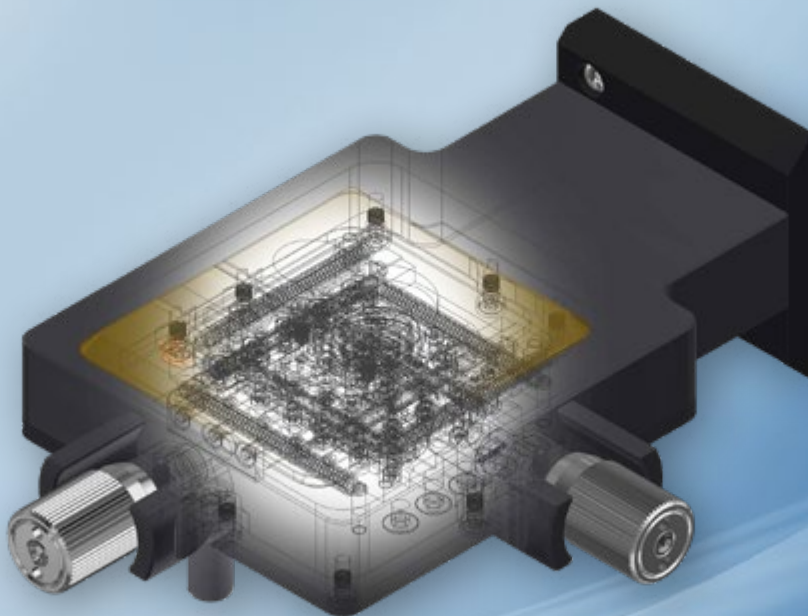
microPREP™ PRO

MANUAL STAGE

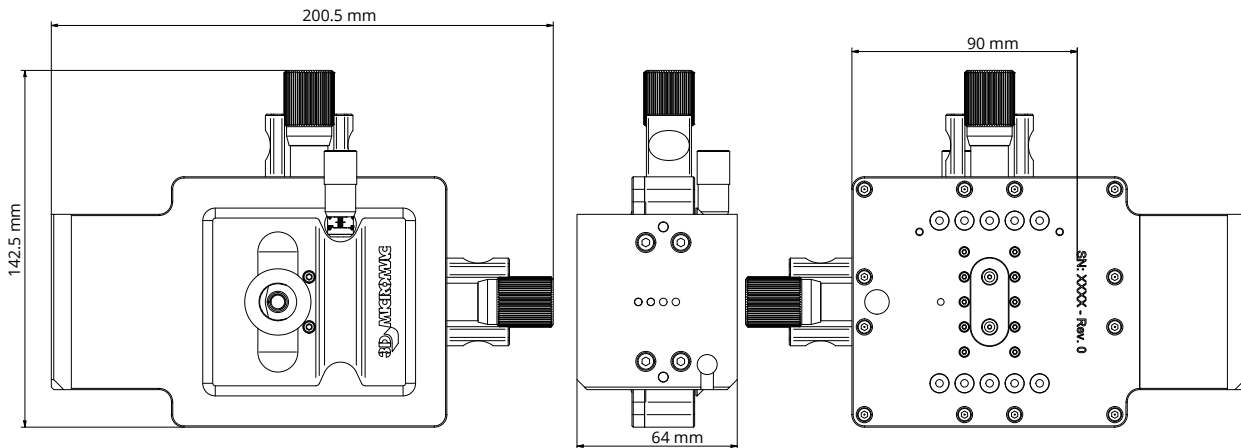
The manual stage is substantially designed for flat samples preferably placed on a SEM stub or mount. The stage is suitable for sample sizes preferably up to diameter of 25 mm and a height of 20 mm and keeps them in place during the ablation process. The two manual adjustable axes for translation (x and y direction) assist in finding the area of interest. The manual stage is suitable for cutting, XL-Chunks, and 2D contours without being limited to that.

APPLICATION IDEAS

- Milling processes (box- and cross-sections)
- Pillar/needle or even pillar arrays
- XL-Chunk and related shapes
- Laser Polishing

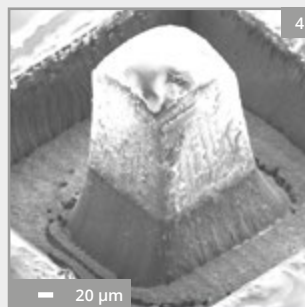
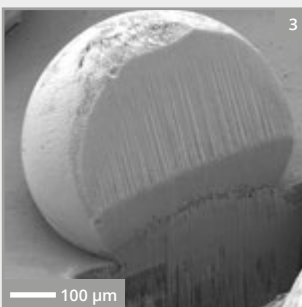
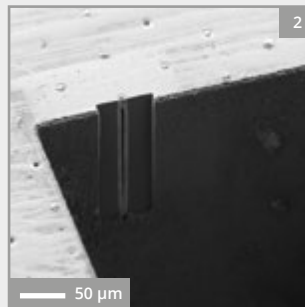
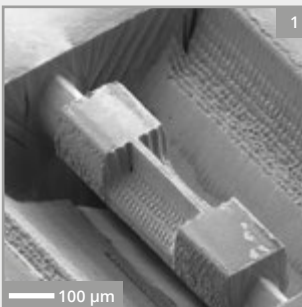


Technical Data



Actuator Type	Manual
Travel Range	X-axis: ± 10 mm Y-axis: ± 10 mm Rotation: $\pm 10^\circ$
Physical Dimensions	200.5 mm x 142.5 mm x 64 mm (78.94" x 56.1" x 2.51")
Possible Sample Sizes	3.2 mm (1/8") SEM/FIB short pin stubs and mounts up to 1" Height: up to 20 mm
Weight	1.4 kg
Max. Load Capacity	10 N

Application Ideas



The manual stage was designed to handle any 3.2 mm pin stubs or mounts up to 1" for microscopes.

Main application for this stage is the preparation of complex structures with undercuts. These XL-Chunks (*image 1*) were developed to improve the sample preparation for TEM and nano-CT analysis.

The stage can also be used to prepare cross-sections and box-millings (*image 2*).

The ability to swivel the stage also allows for special workflows like the partially removal of solder balls. In combination with an oblique cut of the sample the subsequent polishing time can be significantly reduced (*image 3*).

As it is possible to turn the complete stage, also partial taper-free box-millings (*image 4*) can be realized.

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