MicroMill²

MICROSAMPLING DEVICE FOR ISOTOPIC ANALYSIS OF SOLID SAMPLES

DESIGNED FOR HIGH-RESOLUTION MILLING FOR SAMPLING FROM MICROSCOPIC AREAS FOR CHEMICAL AND ISOTOPIC ANALYSIS

FEATURES

- SUB-MICRON SAMPLE MOTION CONTROL
- 5MP DIGITAL SAMPLE VIEWING
- DRILL TILT UP TO 22.5°
- 50 MM COMPUTER-DRIVEN SAMPLE MOVEMENT IN X, Y AND Z AXES
- OPTIONAL CLEAN HOOD

APPLICATION EXAMPLES

Subsampling of complex mineral zonation provides high-resolution elemental isotopic chemistries and intra-zonal variations of crystal structure.

Subsampling within annual growth banding of molluscan shells allows reconstructing seasonal variations present during the life cycle of an organism, e.g. clam.

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Micro-Sampling Device

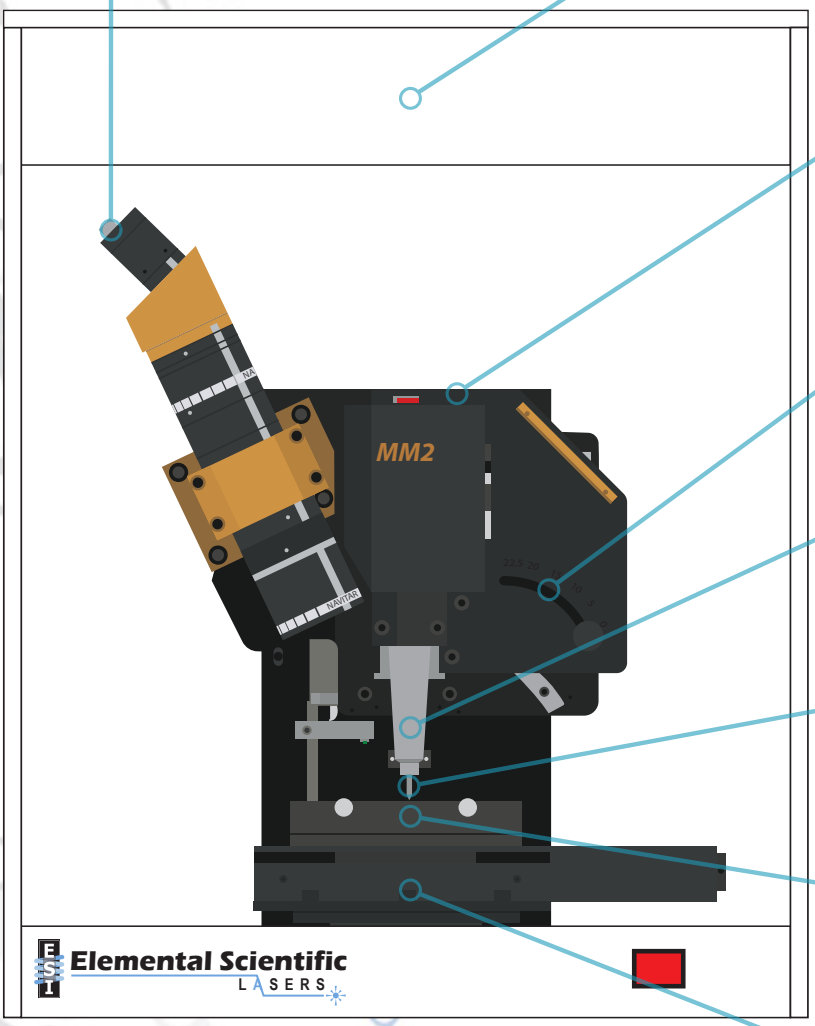
INNOVATION TO ILLUMINATE

Redesigned Sample Viewing

- 5MP digital camera system and optical system for sample viewing with amazing clarity
- High intensity LED reflected and transmitted lighting

Clean Hood *(optional)*

- Powered and controlled by MicroMill²
- Integrated HEPA filter
- Vertical sliding door
- Interior lighting
- Dual side vents
- EMO button



ActiveView2 Control Software

- Image importation and layer management
- Fast and seamless mosaic generation to enable mapping of the entire surface area

22.5˚ Drill Tilt

- For vertical face drilling

50,000 RPM Drill

- High torque and low eccentricity enables efficient milling of all sample types

Improved Drill Type Selection

- Choice of 1/8” or 3/32” drill bits for greater range

New Sample Mounting

- Range of plastic and metal plates, plus top-down securing bracket

High-precision XY Stage

- 50 mm range with 50nm stage resolution
- 100 mm stage to accommodate milling of larger samples *(optional)*

Elemental Scientific LASERS

© Elemental Scientific Lasers LLC | 685 Old Buffalo Trail | Bozeman, MT, 59715 | United States
Tel: + 406 586 3159 | lasers@icpms.com | www.icpmslasers.com

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