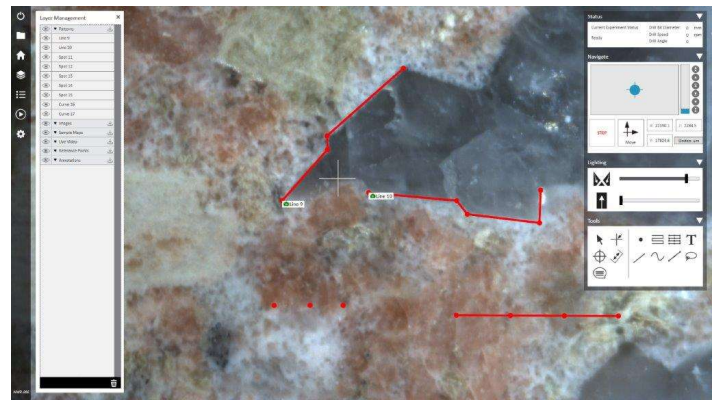
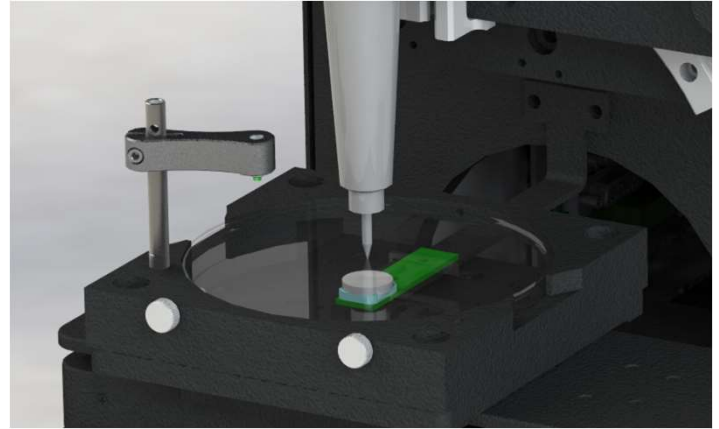


MicroMill²

Micro-Sampling Device

INNOVATION TO ILLUMINATE



Introducing Elemental Scientific Lasers' MicroMill² – a device for microsampling of minerals.

It was designed for high-resolution milling for sampling from microscopic areas for chemical and isotopic analysis.

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

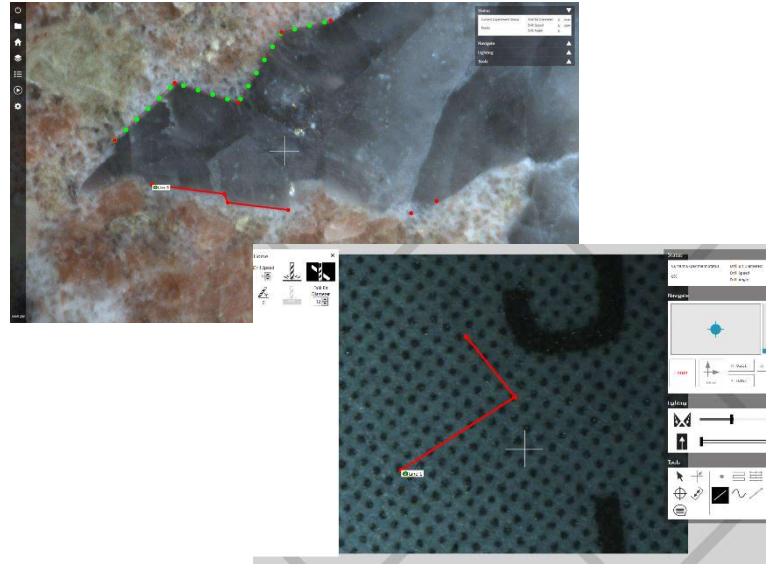
Subsampling within annual growth banding of molluscan shells allows reconstructing seasonal variations present during the life cycle of an organism, e.g. clam.

Features and Benefits

- Sub-micron sample motion control
 - Precisely sample from any growth band or zoned mineral.
- 5MP digital sample viewing
 - See features with clarity before sampling in a modern software platform.
- Drill tilt up to 22.5°
 - Enables flat-face milling of growth bands and interfaces.
- 50 mm computer-driven sample movement in X, Y and Z axes
 - Accurate and precise control directly from the PC.

MicroMill2

Specifications Summary



Performance Specifications

Digital Camera	5 MP (USB3)
Zoom Range (FOV)	10 mm to 42 µm
XYZ Stage Travel (mm)	50 x 50 x 50 mm (standard) 100 x 100 x 50 mm (optional)
XYZ Stage Step Resolution (nm)	50 x 50 x 25 nm
Sample Lighting	All LED: Flood lighting Transmitted lighting
Polarizer	Software-controlled rotating cross polarizer
Drill Speed	0-50,000 rpm (software controlled)
Angled Drilling	0-22.5° drill angle
Milling Chuck	Low eccentricity, high speed
Drill Bit Shank Diameter	1/8" or 3/32"

Software Specification

ActiveView2 software for Windows10

Live video during pattern placement and milling

Import image and coordinate data from other systems;
Work directly from your images for improved workflow

On-screen display of digitized and interpolated subsampling paths

Precise depth control over entire area of sample

Z-tilt correction and contour-following functions

Offline digitized files can be read directly with software transformation of image coordinates

Data record file with sample-path information and estimated sample volumes

Save, recall, and export images (BMP, TIF and JPG,)

Site Requirements

Depth	18" / 457 mm
Width	7.5" / 185 mm
Height	16" / 405 mm
Weight	50 lb / 23 kg
Power Requirements	100-240 V (AC), 250 W, 50/60 Hz

