

Improved Slide Quality Using the AquaroASM Automated Section Mounting System

The AquaroASM automated section mounting system interfaces with motorized microtomes and utilizes a gentle water stream to transfer paraffin-embedded sections from the microtome blade to slides. Sections are exposed to warm water for relaxing at a temperature and for an amount of time defined by the user. Users can also program the number of sections per slide, the location of section placement on the slide, and whether sections are mounted serially or with different levels on the same slide.

Improved Section Quality

The AquaroASM offers better consistency of sections in all stages of microtomy: cutting, floating, and mounting.

- Pairing the AquaroASM with a motorized microtome offers **more consistent section thickness**, which can impact staining intensity.
- Gentle and hands-free section transfer yields **more useable sections**.
- Precise control over the temperature and time of section floating provides control over section relaxation, which affects **section thickness, width, and length**.



Picture 1: Resulting stained tissue sections are precisely placed and show consistent staining intensity. Top: Mouse spleen. Bottom: Mouse Lung.

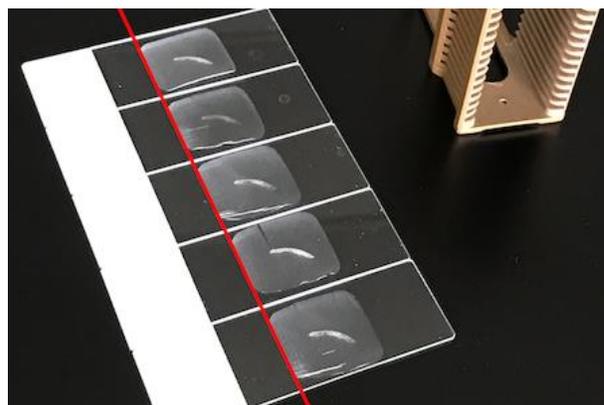


Picture 2: AquaroASM automated section mounting system paired with a Thermo Scientific™ (Microm) HM 355S microtome. The AquaroASM can also be paired with Leica motorized microtomes.

Consistent Section Placement

With the AquaroASM, one or two sections can be placed on a slide. If one section is placed on a slide, it can be placed consistently in the top, middle, or bottom position. The AquaroASM provides consistent section placement across all slides, even when different levels are placed on the same slide.

Consistent section placement simplifies staining and scanning procedures for the histology lab, and slide reviewing for the pathologist. It makes advanced pathology technologies, such as digital pathology and 3D reconstruction of sections, more accessible to histology laboratories.



Picture 3: The AquaroASM places and orients sections consistently on slides.

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