



SAM44

| Microtome Semi-automatic

Details Info

- Ergonomically one-step Injection Molded housing(including fixing bottom studs) results in appropriate structure, attractive appearance and convenient operation, and enables to avoid resonance and lower the frictional resistance;
- Magnetic waste tray enables easy removal for cleaning, and was designed black to blend into one harmonious whole together with the main machine.

Electronic touch-control system with Powerful functions and convenient operation

- Control and display by chromatic LCD touch-screen;
- Enable optional languages
- Manual modes: rotary and rocking
- Fast trimming function enables fast switch between sectioning and trimming mode;
- Section counting function counts total section pieces and total thickness
- Specimen retraction function protects specimens from blade scratching and ensures sections' integrality
- Specimen spot memory enables specimen go to original sectioning position;
- Automatic voltage compatibility ensures to match with global voltage standards with supported range of voltage from 100V to 240V;
- Self-diagnostic prompt.

Mechanical drive system with perfect workmanship enables durable service

- Guide rails and retainer in mechanical transmission system was made in German, which are so highly precise that enables to slide with even no gap, thus results in precision and longer equipment life and free of lubrication, maintenance and noise, too;
- All highly precise parts are produced by machining center to ensure uniformity and precision;
- A precise micro motion specimen feeding system: controlled by a micro-computer, optical signals, and a stepper motor to ensure precise specimen feeding.

Precise, comfort, and safe slicing experience:

- A force balancing system in handwheel for adjusting the balancing force during slicing, making rotation light , even and smooth;
- Two safe locking mechanisms: the first safety lock is located on handwheel, when activated, the specimen head can be fixed at the uppermost; the second locking system is positioned on the microtome base and locks the specimen head at any position.
- The blade clamp can be moved horizontally to avoid danger from unintended touch on blade. A third of the blade can do the entire slicing, which makes the blade's life time three times longer;
- Specimen positioning: horizontally 8°, vertically 8°, cassette clamp and C clamp are optional.

Technical Specifications:

Section thickness range	0.5~100μm(3~5μm thickness leads to best section results) 0.5~5μm, in 0.5μm increment 5~20μm, in 1μm increment 20~60μm, in 5μm increments 60~100μm, in 10μm increments
Trimming thickness	1~600μm Trimming thickness setting: 1~10μm, in 1μm increment ; 10~20μm, in 2μm increments 20~50μm, in 5μm increments; 50~100μm, in 10μm increments; 100~600μm, in 50μm increments;
Specimen retraction	5~150μm, in 5μm increments; (enable to shut down)
Specimen vertical stroke	70mm
Specimen horizontal stroke	about 30mm
Max specimen size	60mm×50mm×40mm
Specimen positioning: horizontally	8°, vertically 8°
Voltage:	AC100~240V, 50~60Hz
Power	75W
Dimensions (W×L×H)	410×620×310mm
Weight	about 30kg



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