LABTRON


# AUTOMATIC MICROTOME LAM-A10

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# Automatic Microtome LAM-A10

Automatic Microtome LAM-A10 is a fully automated microtome, offers adjustable speed with three sectioning modes (Continuous, Step, Single) for users selection. Designed with streamlined molded housing, hand wheel for smooth running and stepping-motor advance technology for fine sectioning and trimming of specimen with selectable specimen retraction. Features, a precise micro motion specimen feeding system, microcomputer controlled optical signal and stepper motor to regulate specimen feeding, and a removable waste tray for specimen dismantling. Automatic Microtome offers, 0.5 µm to 100 µm section thickness range, and 1 to 600 µm trimming thickness range.

## Features :

- Fully-automatic sectioning with adjustable speed with Three sectioning modes (Continuous, Step, Single) for users selection
- Streamlined molded housing offers attractive appearance and easy maintenance
- Advanced retraction function makes better sectioning and retraction value is adjustable
- Electronic trim function to switch from trim to section mode
- Section counting function sums total section pieces and overall thickness
- Signal and stepper motor to control specimen feeding
- Automatic memorized coarse feed and reload function improves cutting efficiency
- Advanced slide mechanism and groove ensures the precision of specimen movement
- Specimen fine orientation of 8° on X/Y axes
- Universal specimen holder includes C clamp, Optional Cassette Clamp
- Spacious and ingenious waste tray
- A hand wheel force balancing system to adjust the balancing force during smooth and even rotations, sectioning
- Two safety lock mechanisms on the hand wheel (one lock on top, other at any position)
- Self-diagnostic prompt, Alarm system to warn forward and backward limitations

## Application :

Automatic Microtome used for sectioning (slicing, trimming) of biological specimens across Histopathology, Medicine, Biology for scientific research and analysis.

## Specifications

| Model | LAM-A10 |
|---|---|
| Section thickness range | 0.5 µm to 100 µm (3 to 5 µm best slicing effect) |
| Section thickness setting | 0.5 to 5 µm, in 0.5 µm increment<br>5 to 20 µm, in 1 µm increment<br>20 to 60 µm, in 5 µm increment<br>60 to 100 µm, in 10 µm increment |
| Trimming thickness range | 1 to 600 µm |
| Trimming thickness setting | 1 to 10 µm, in 1 µm increment<br>10 to 20 µm, in 2 µm increment<br>20 to 50 µm, in 5 µm increment<br>50 to 100 µm, in 10 µm increment<br>100 to 600 µm, in 50 µm increment |
| Specimen retraction thickness | 10 to 150 µm, In 1 µm increment |
| Specimen vertical stroke | 60 mm |
| Specimen horizontally stroke | 25 mm |
| Specimen holder adjustment system | Horizontal orientation (X axis): ± 8° |
| Max specimen size with C clamp (H×W) | 55 mm × 45 mm |
| Power supply | 100/240 V, 50/60 Hz |
| Dimensions (W×D×H) | 560 × 470 × 300 mm |
| Weight | 35 kg |