



## **AUTOMATIC MICROTOME LD-LAM-A10**

## Automatic Microtome LD-LAM-A10

Automatic Microtome LD-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  $\mu\text{m}$  to 100  $\mu\text{m}$  section thickness range, and 1 to 600  $\mu\text{m}$  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

### Applications

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

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## Specifications

Model No.	LD-LAM-A10
Section thickness range	0.5 $\mu\text{m}$ to 100 $\mu\text{m}$ (3 to 5 $\mu\text{m}$ best slicing effect)
Section thickness setting	0.5 to 5 $\mu\text{m}$ , in 0.5 $\mu\text{m}$ increment 5 to 20 $\mu\text{m}$ , in 1 $\mu\text{m}$ increment 20 to 60 $\mu\text{m}$ , in 5 $\mu\text{m}$ increment 60 to 100 $\mu\text{m}$ , in 10 $\mu\text{m}$ increment
Trimming thickness range	1 to 600 $\mu\text{m}$
Trimming thickness setting	1 to 10 $\mu\text{m}$ , in 1 $\mu\text{m}$ increment 10 to 20 $\mu\text{m}$ , in 2 $\mu\text{m}$ increment 20 to 50 $\mu\text{m}$ , in 5 $\mu\text{m}$ increment 50 to 100 $\mu\text{m}$ , in 10 $\mu\text{m}$ increment 100 to 600 $\mu\text{m}$ , in 50 $\mu\text{m}$ increment
Specimen retraction thickness	10 to 150 $\mu\text{m}$ , In 1 $\mu\text{m}$ increment
Specimen vertical stroke	60 mm
Specimen horizontally stroke	25 mm
Specimen holder adjustment system	Horizontal orientation (X axis): $\pm 8^\circ$
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