

Microtome

Annexure - I

Specifications:

Manual Rotary Microtome for routine and clinical laboratories for sectioning of paraffin embedded blocks with following specifications:

1. Ergonomically made and compact design
2. Mechanical precision feed mechanism should be available
3. Manual sectioning and coarse feeding should be through smooth running hand wheel and coarse wheel
4. Manual sectioning in both full hand wheel rotation and rocking mode
5. Vertical guidance by zero-backlash and maintenance-free cross roller bearings
6. Specimen orientation should be universal 8° and rotatable at 360°
7. Specimen retraction during return travel is desired.
8. Resettable electronic section counter should be available.
9. Should have universal blade holder to accommodate low profile blades
10. Section thickness range should be $0.5 \mu\text{m}$ to $60 \mu\text{m}$ with following increment range
 - from $0 \dots 2 \mu\text{m}$ in $0,5 \mu\text{m}$ - increments
 - from $2 \dots 10 \mu\text{m}$ in $1 \mu\text{m}$ - increments
 - from $10 \dots 20 \mu\text{m}$ in $2 \mu\text{m}$ - increments
 - from $20 \dots 60 \mu\text{m}$ in $5 \mu\text{m}$ - increments
11. Horizontal overall specimen feed should be 25-30 mm
12. Vertical specimen stroke should be 50 -64 mm
13. Should having spacious section waste tray that can cover the entire working area
14. The equipment should be European CE and USA-FDA approved
15. Manufacturer must be ISO 9001 and ISO 13485 certified by European/American/Japanese
16. Equipment should be provided with following accessories- Preferably from the same brand or from other with certification.
 - a) Low profile blades: 5 pkts.
 - b) Tissue Flootation Bath: qnt-1 (Round for flattening of tissue sections having temp range from ambient – 70°C)
 - c) Hot plate: Qnt-1 [accommodate min 40 -50 slides with temp control Ambient – 95°C or $50 - 70^\circ\text{C}$, surface black coating]
 - d) Wax dispenser (Optional) Capacity: 5 - 10 L; Temperature Range: Ambient – 70°C
17. The demonstration of the equipment offering actual tender specifications should be mandatory for technical qualification.
18. Instrument should be provided with at least two year warranty and AMC.
19. On sight training by company expert annually for a period of two years.

HOD

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