



CRYOSTAT MICROTOMES



A High Performance
Cryostat Microtome
for consistently accurate
frozen tissue sectioning
in histology
and clinical pathology



CONSISTENCY REDEFINED



Fully Automatic Cryostat Microtome

Floor Standing **CRYOSTAT** is **Fully programmable** for temperature control, **Section Thickness, Retraction** and a **Large LCD display** clearly shows **all the functions and parameters**

Free standing cryostat with encapsulated, splash proof microtome.
Spacious stainless-steel cryochamber with antiglare illumination

Technical Specifications

SPECIFICATIONS	
Section Thickness Range	1-100µm
	1-5µm in 0.5µm increment
	5-20µm in 1µm increments
	20-60µm in 5µm increments
	60-100µm in 10µm increments
Trimming Range	0.5-600µm in 1µm increment
Max Specimen size	55 X 55 mm
Vertical specimen stroke	60±2mm
Horizontal Specimen feed	25±2mm
Motorized coarse feed in 2 speeds	300 µm/s in 20 µm increment 900 µm/s continuous
Specimen cooling temperature	0 to -35°C
Specimen Retraction	0-20µm
Specimen Orientation	8° (X-Y axis) Z axis 360°C
Chamber illumination light	Bright white light, Halogen
Provision of hand wheel lock	Mechanical only, 1 mechanical & 1 electronic via emergency brake
Section cutting via hand wheel	Advance & manual, both manual & motorized
Type of microtome sectioning	Fully-automatic & automatic microtome
Cooled quick freezing shelf	-25°C
Sectioning of natural tissue	from 2 to 20 microns in the step or 2 microns
Freezing shelf position	10
Working Voltage	200 - 240V, 50HZ
Cryo Chamber Temperature	0°C - 35°C



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Fully-Automatic Cryostat Microtome

Cryostat at a Glance

- The Cryostat floor standing open top cryostat with a spacious stainless steel cooling chamber.
- Encapsulated microtome with spacious Cryo-chamber
- There inbuilt integrated electronic control system which can be controlled by user through digital display to set the parameters.
- Freestanding cryostat with encapsulated, splash-proof microtome.
- Microtome user flexibility to select the coarse feed wheel direction of rotation depending on the requirements
- Easy to clean, actively cooled specimen preparation zone with quick-freezing shelf for up to 15 specimens plus 2 Peltier element freezing stations (temperatures down to minus 45+5° C) with manual defrost cycle.
- Well illuminated cabinet.
- Easy to handle & stable clamping the specimen discs
- Adjustable Cutting Angle
- The blade holder lateral displacement feature for the maximum usage of blade.
- The system separate freezing device or compressor systems for cooling chamber and specimen.
- Automatic manual chamber defrost facility with one automatic defrost 24 hours; short duration defrost cycle of not more than 15 minutes.
- Fast forward/Backward function.
- Dual Compressor for Rapid Freezing
- Enclosed Drainage System
- indicate by visual display with different section thickness settings.
- Antistatic anti roll guide.
- Low maintenance microtome with cross-roller guides.
- Lockable handwheel at any position for user safety.
- Active cool freeze shelf.
- Maximum cooling time to attain the lowest temperature less than 4 hours after start up.
- Inbuilt UV-C Disinfection system.
- One or more quick freezing stations available.
- Facility to trim available.
- LCD/Touch Screen display for Cryochamber temperature, actual time, defrost time and section thickness setting.
- Automatic retraction on return stroke.
- The microtome maintenance free fully automatic or semi automatic with an option of manual operation and capable of cutting section thickness setting ranging.
- The specimen storage shelf space for placing minimum 5 chucks.
- External casing high performance Cryostat microtome is

- fabricated by using best in class alloyed aluminum which gives excellent protection against moisture, rust, dirt & water attacks.
- Rotary Microtome based with stepper motor technology to ensure reproducible sections.
- Chamber illumination light- bright white light.
- Equipped with various safety features for the efficient reduction of pathogens, Contamination & other micro impurities.
- Finger protection guard to protect the user from any injuries caused due to blade.
- Condensation free operation inside the inner chamber.
- Hand wheel lock- mechanical.
- Integrated vacuum system for stretching of the tissue sections and suction of cutting debris.
- Independent temperature setting of specimen holder and Make holder adjustable to minus 40°C or less.
- Universal disposable blade system for both low- and high- profile blades with disposable blades (1 pack each of low- and high-profile blades).
- Manual cutting wheel provided on right side of instrument.
- Closed drainage system.
- Provided with power backup.



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Other Products from **MEDIMEAS**



Automatic Tissue Processor



Automatic Microtome



Automatic Slide Stainer



Cryostat Microtome

MEDIMEAS INSTRUMENTS

118, HSIDC Ind. Area, Ambala Cantt - 133001, Haryana (India) Ph : 0171- 2698091, Fax: 0171-2698004

Website : www.medimeas.com e-mail : contact@medimeas.com

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