



## Cryostat Microtome

Model: MTC-3000



### FEATURES:

- The MTC-3000 has been designed with all ergonomic concepts in mind. All the components are processed with computer numerical controlled machining centres
- Specimen retraction function, protects specimen from blade damage
- Fast Trim/Cut function makes it easy to switch from trim and section mode
- Unit is equipped with counter to calculate total pieces cut and total thickness.
- Dual compressors, which are made in Germany, freeze the cryostat chamber, freezing shelf, knife holder and specimen clamp separate with environmentally friendly refrigerant (R404) Danvers compressor refrigeration fast freezing and lower noise. Pro-environment—environmentally friendly refrigerant --R404A.
- Chamber temperature can drop to working condition in 60 minutes after switching on.
- Wide freezing shelf may hold 10 specimen cassettes
- UVC sterilize function
- Pettier may switched be on or off manually.
- Unit contains heated, removable sliding window.
- Unit has two defrost methods: definite time and manual
- The high-precision microtome is enclosed outside the cryostat chamber to protect it from thermal expansion and contraction and keeping service and maintenance to a minimum.
- Self-explanatory symbols for all functions and displays make the unit easy to learn and operate.
- LCD screen can display data such as sample travel, thickness, function controlling, day, time, temperature and time on/off.
- Suspend mode, after initialization, the temperature in cryostat chamber can be controlled between -4°C and 9°C by computer automatically; once stopped initializing, the temperature in freeze chamber will arrive to working temperature within 10 minutes
- Control panel with locking function to avoid improper operation.
- Hand wheel locking

## SPECIFICATIONS:

Temperature range:	-10 °C to -40 °C
Cooling time to -40°C:	60 min
Freeze shelf :	-45 °C
Lowest Temp. of Peltier unit on freeze shelf :	-60 °C
Peltier working time:	15 minutes
Maximum specimen size:	45 × 55mm
Specimen vertical stroke:	60mm
Specimen horizontal stroke:	20mm
Coarse feeding speed:	0.7mm/s; 0.35mm/s
Section thickness range:	1 - 100µm adjustable 1µm - 20µm in 1µm increment 20µm - 40µm in 2µm increment 40µm - 100µm in 5µm increment
Trimming thickness range:	10µm - 400µm adjustable 10µm - 50µm in 5µm increments 50µm - 100µm in 10µm increments
Retraction range:	0µm - 80µm adjustable; in 5µm increment
Power supply:	AC 220 V ±10%, 50/60Hz
Power:	850W
Dimensions:	660×640×1130mm (W×D×H) :
Weight:	130 kg

