



# CRYOSTAT MICROTOME

AST 560 SEMI-AUTOMATIC CRYOSTAT MICROTOME

AST 580 FULLY-AUTOMATIC CRYOSTAT MICROTOME

BETTER HISTOLOGY SOLUTION BETTER LIFE FROM HEALTH

# Cryostat Microtome Design Features

AST 560 Semi-automatic Cryostat Microtome	AST 580 Fully-automatic Cryostat Microtome
It is designed under overall engineering and ergonomic concept. All the components are processed by computer numerical controlled machine.	
Retraction function prevents specimen damage from blade.	
Total thickness calculation.	
The low temperature refrigeration system with environment friendly refrigerant R404.	
Adopt UV sterilize for 30 minutes every time.	
Peltier specimen clamp refrigeration can be turn On or Off manually.	
Two defrosting methods: manual and automatic.	
-	Two running ways : manual and automatic.
-	Emergency stop function : Press the red button to stop running when any emergency happens.
The high precision unit is enclosed outside the cryostat chamber to prevent it from thermal expansion and contraction , and keeps minimum maintenance requirement .	
Artificial intelligent interface is easy to learn and operate.	
Touch Screen can display all information including thickness, thickness sum , controlling time, temperature, timed on/off and so on. Sleep Function. After activating this function, the temperature in cryostat chamber can be kept between -1°C and -10°C; After stopping this function, the temperature in freeze chamber will arrive to working temperature within 30 minutes.	
Control panel with locking function could avoid wrong operation.	
Handwheel locking function.	
Wide freezing shelf can load 17 specimen cassettes simultaneously ,and two of them are equipped with peltier to meet different temperature .	

# Cryostat Microtome Technical Specifications

	AST 560	AST 580
Freeze chamber minimum temperature	-35°C±2°C	
Freeze shelf minimum temperature	-45°C±5°C	
Lowest temperature of Peltier unit on freeze shelf	-55°C±5°C	
Lowest temperature of Peltier unit on Specimen Clamp	-50°C±5°C(working time of Peltier is 15 minutes.)	
Maximum specimen size	35×35mm	
Specimen vertical stroke	54±1mm	
Specimen horizontal stroke	24±0.2mm	
Coarse feeding speed	300µm/s (slow) or 900µm/s(rapid)	
Section thickness range	0µm ~ 100µm adjustable; 3µm ~ 10µm, in 1µm increments; 20µm ~ 100µm, in 5µm increments;	0µm ~ 3µm, in 0.5µm increments; 10µm ~ 20µm, in 2µm increments;
Trimming thickness range	0µm ~ 600µm adjustable; 50µm ~ 100µm, in 10µm increments;	0µm ~ 50µm, in 5µm increments; 100µm ~ 600µm, in 50µm increments;
Retraction range	0~80µm adjustable , in 5µm increments	
Electric coarse feed	-	Slow 300µm/s ± 30µm/s Rapid 900µm/s ± 30µm/s
Motorize cutting speed	-	75-230mm/s±10%;
Voltage and frequency	220 V ± 10% , 50 HZ / 110 V ± 10% , 60 HZ	
Nominal Power	1000 W	
Weight	about 130 KG	
Dimensions(W×D×H)	715×765×1230mm	

