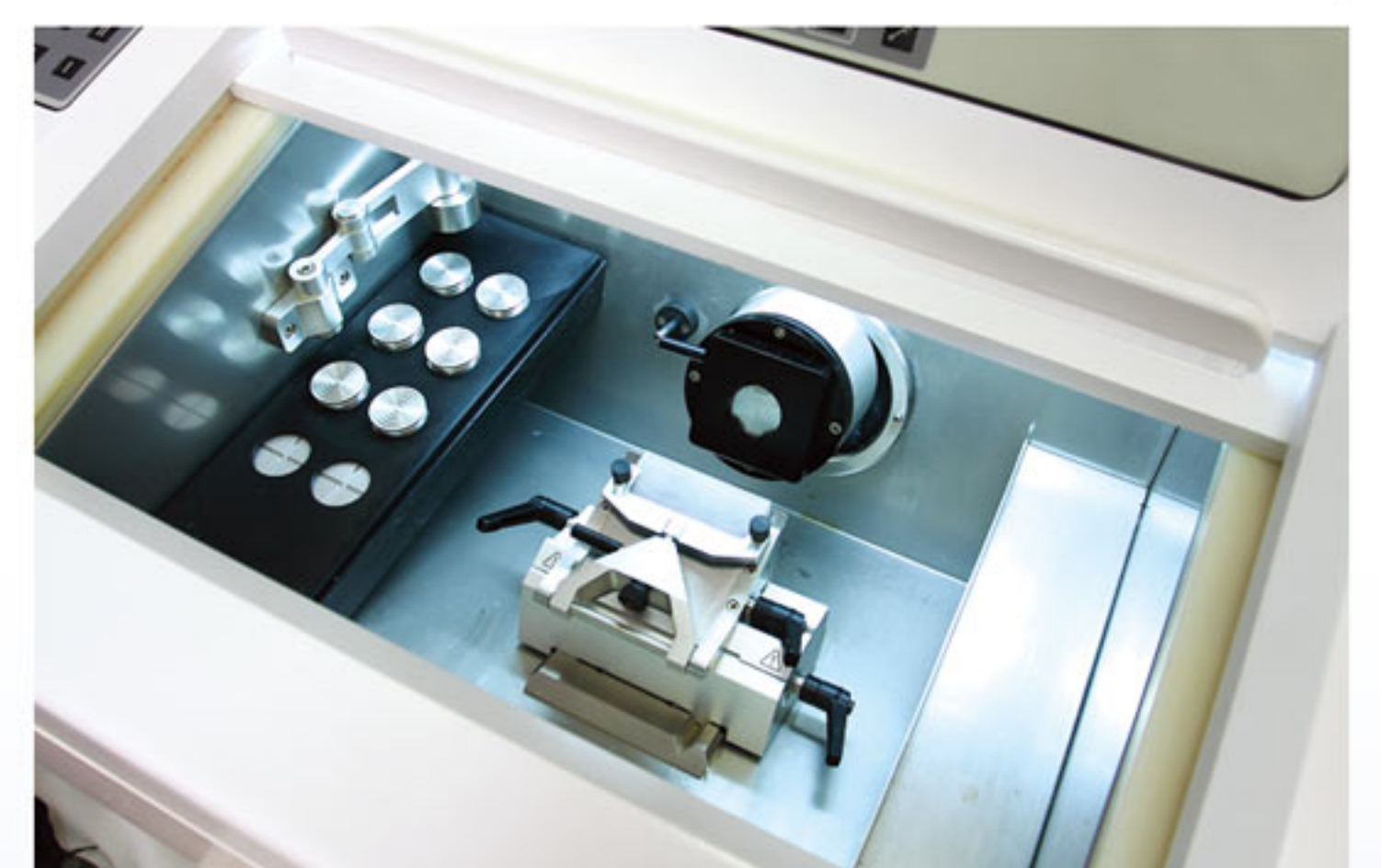




BETTER HISTOLOGY SOLUTION
BETTER LIFE FROM HEALTH



AST 550 FULLY-AUTOMATIC CRYOSTAT MICROTOME

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Design Features

- 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 and O³ 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.
- LCD 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 8 specimen cassettes simultaneously ,and two of them are equipped with peltier to meet different temperature .

Technical Specifications

- Freeze chamber minimum temperature : $-35^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- Freeze shelf minimum temperature: $-45^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- Lowest temperature of Peltier unit on freeze shelf: $-55^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- Lowest temperature of Peltier unit on Specimen Clamp: $-50^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (working time of Peltier is 15 minutes.)
- Maximum specimen size: $35 \times 35\text{mm}$
- Specimen vertical stroke: $48 \pm 1\text{mm}$
- Specimen horizontal stroke: $15 \pm 0.2\text{mm}$
- Coarse feeding speed: $300\mu\text{m/s}$ (slow) or $900\mu\text{m/s}$ (rapid)
- Section thickness range: $0\mu\text{m} \sim 100\mu\text{m}$ adjustable;
 $0\mu\text{m} \sim 3\mu\text{m}$, in $0.5\mu\text{m}$ increments;
 $3\mu\text{m} \sim 10\mu\text{m}$, in $1\mu\text{m}$ increments;
 $10\mu\text{m} \sim 20\mu\text{m}$, in $2\mu\text{m}$ increments;
 $20\mu\text{m} \sim 100\mu\text{m}$, in $5\mu\text{m}$ increments;
- Trimming thickness range:
 $10\mu\text{m} \sim 600\mu\text{m}$ adjustable;
 $10\mu\text{m} \sim 50\mu\text{m}$, in $5\mu\text{m}$ increments;
 $50\mu\text{m} \sim 100\mu\text{m}$, in $10\mu\text{m}$ increments;
 $100\mu\text{m} \sim 600\mu\text{m}$, in $50\mu\text{m}$ increments;
- Retraction range: $0 \sim 80\mu\text{m}$ adjustable , in $5\mu\text{m}$ increments
- Voltage and frequency: $220\text{V} \pm 10\%$, 50 HZ / $110\text{V} \pm 10\%$, 60 HZ
- Nominal Power: 1000 W
- Weight: about 130 KG
- Dimensions(W × D × H): $805 \times 715 \times 1210\text{mm}$



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