

MH-1800

Note :

Due to keeping innovation,
the specification and
Machine pictures or color
are subject to alteration
without notice!

Fast, steady refrigerant system

- ✓ Cryostat adopts a DANFOSS compressor to cool down freezing chamber by R404A environment friendly fluoride-free refrigerant.
- ✓ It takes only 60 minutes to get appropriate temperature for slicing in fast freezing mode.
- ✓ Wide freezing shelf may hold 10 specimen discs meanwhile.
- ✓ Vacuum glass window with transparent electronic heating resistance on top layer enable to prevent fog and cold air leakage.

Technical Specifications

- ✓ Freezing chamber temperature range: $-30^{\circ}\text{C} \sim -10^{\circ}\text{C}$
- ✓ Time freezing shelf need to cool down to -30°C : 60 minutes
- ✓ Freezing shelf minimum temperature: -45°C
- ✓ Minimum temperature of heat extractor on freezing shelf: -55°C
- ✓ Heat extractor working time: 15 minutes
- ✓ Maximum specimen size: $35\text{mm} \times 35\text{mm}$
- ✓ Specimen vertical stroke: 60mm
- ✓ Specimen horizontal stroke: 20mm
- ✓ Rough feeding speed: 0.7mm/s or 0.35mm/s
- ✓ Section thickness range: $1\mu\text{m} \sim 80\mu\text{m}$ adjustable;
 - $1\mu\text{m} \sim 20\mu\text{m}$, in $1\mu\text{m}$ increment;
 - $20\mu\text{m} \sim 40\mu\text{m}$, in $2\mu\text{m}$ increments;
 - $40\mu\text{m} \sim 80\mu\text{m}$, in $5\mu\text{m}$ increments.
- ✓ Trimming thickness range: $10\mu\text{m} \sim 400\mu\text{m}$ 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;
 - $100\mu\text{m} \sim 400\mu\text{m}$, in $50\mu\text{m}$ increments.
- ✓ Retraction range: $0\mu\text{m} \sim 80\mu\text{m}$ adjustable; in $5\mu\text{m}$ increment.
- ✓ Voltage and frequency: $\text{AC}220\text{V} \pm 10\%$, 50Hz(Standard),
or $\text{AC}110\text{V} \pm 10\%$, 60Hz
- ✓ Power: 650W
- ✓ Weight: 125kg
- ✓ Dimensions(W×D×H): $660 \times 640 \times 1130\text{mm}$



MH-1800

We have sold this model since the year 2000, and keep improving and upgrading it. Its mechanical transmission of Model LS-2800 upgraded to semi-automatic one, specimen clamp upgraded to universal adjustable one, and freezing shelf upgraded to a wider one, each upgrade was in order to expand its range of application and bring convenience to customers and labs.

Take both aesthetics and practicality into structure design

- Design ergonomically, and all drive parts are produced by machining center.
- Mechanism of microtome is protected from expansion and contraction by being seated out of the freezing chamber to reduce maintaining frequency to the hilt

Electronic control system with Powerful functions and convenient operation

- LCD screen displays total slicing number and thickness, section thickness, retraction, temperature, date, time, timing defrost, manually defrost, and timing power on/off.
- Section counting function counts total sliced pieces and thickness.
- Specimen retraction function protects specimens from blade scratching and ensures sections' integrity.
- Fast trimming function enables fast switch between sectioning and trimming mode.
- Humanize standby function: freezing chamber temperature is between -10°C and -1°C automatically while standby and will reach appropriate temperature for slicing in 10 minutes after standby is canceled.
- Sterilization by UV light takes 35 minutes every time.



Note :
Due to keeping innovation, the specification and Machine pictures or color are subject to alteration without notice!

Precise, comfort, and safe slicing experience

- Blade clamp with lock on top of blade holder enables to clamp wide or narrow blades. To avoid flexible blade cause by spring fatigue, we adopted three-point pressing plate to fix blade and a cam lock to ensure tight.
- Blade clamp enables to move horizontally to avoid danger from unintended touch on blade. A third of the blade can do the entire slicing, which makes the blade's life time three times longer.
- Anti-rolling plate enables to adjust horizontally, verticality, and also to adjust angle and gap with pressing plate.
- Interface of artificial intelligence make operation convenient and easy-learning.
- Keyboard enables to lock to avoid misoperation.
- LED illumination in freezing chamber.
- Handwheel enables to be locked at 9 spots.
- Specimen clamp' s x axis and y axis enable to adjust 8° , z axis enables to adjust 360° , which ensure the precision.