



MICROTOME

Sectioning System

TAMBE Semi-automatic Cryostat Microtome



Features:

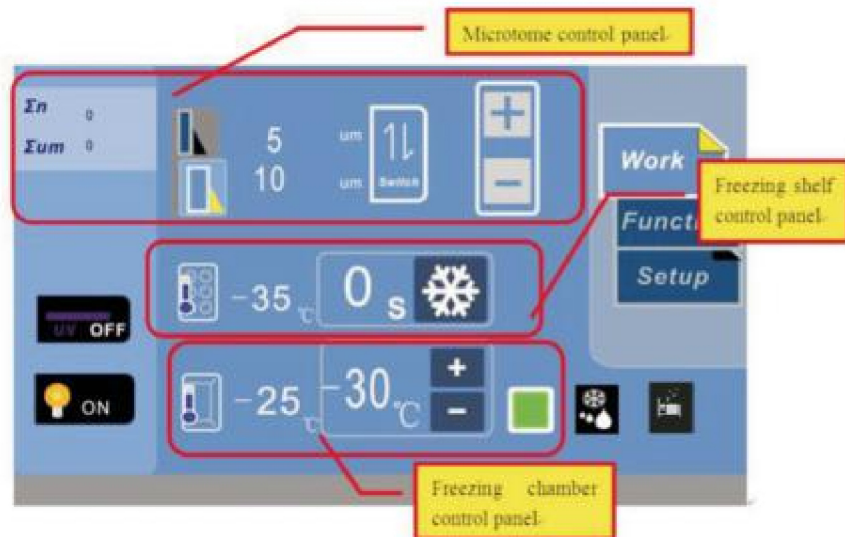
- 1.Modular control system :
 - Defrost automatically/ manually;
 - Hibernation automatically / manually,wake up in 15 minutes;
 - UV sterilization;
 - Semi-conductor refrigerant;
 - Slice number and thickness calculation;
- 2 movement speeds of specimen clamp.

Appearance :

one-time injected model cover ;

Anti-fog heating glass design ;

Chromatic liquid crystal touch screen .



Microtome :

light and smooth handwheel with locking device on it ;

Specimen clamp enables to adjust triaxially with a block in the centre to go back

High precision guide rails made in Germany make transmission smooth durable and be able to cut hard sample ;

Retraction

Freezing chamber

Extra large chamber with wide freezing shelf may hold 20 specimen discs meanwhile .

With waste tray and instrument rack .

Blade holder :

Wide or narrow blades optional ;

A anti-fatigue cam lock ensures blades clamp tight;

Blade clamp can be moved horizontally on the guide rail for safety and making full use of a blade ;

Glass anti rolling plate to adjust angle and gap with pressing plate ;

A pushing rod pops the blade out .

Technical specifications

1.Electrical :

Security type: I category ,B type

Voltage frequency :AC 220V , 60Hz ($\pm 10\%$)

Input power :650 VA

Refrigerating :

(1) Freezing chamber

The range of temperature setting : - 35 °C to - 10 °C

Defrost : Manual / Auto Refrigerating capacity : 690 W

Refrigerate :R404a ,300 g \pm 5g

Quick -freezing shelf

Minimum temperature : - 45 °C

Number of specimen holder freezing points : 20

Number of semi-conductor freezing points : (switchable) 2

Setting range of section thickness :0 um - 100 um

Setting value range	Move step
0 um - 10 um	1 um
10 um - 20 um	2 um
20 um - 50 um	5 um
50 um - 100 um	10 um

Specimen's horizontal stroke :25 mm

Specimen's vertical stroke :60 mm

Specimen's max size : 55 mm X 55 mm

Specimen clamp 's max adjustable angle : 12 °

Specimen fast moving speed : 0.7 mm/s

Dimensional

W x T X H : 780 mm(650 without handwheel) x 700 mm x 1152 mm

Net weight : 145 KGS

Accessories:

Standard Setting List

- | | |
|---------------------|--------|
| 1. Specimen Disc | 10 pcs |
| 2. Fuse (2A) | 2 pcs |
| Fuse (15A) | 2 pcs |
| 3. Appliance Stand | 1 pcs |
| 4. Power line | 1 line |
| 5. Hexagonal Wrench | 1 set |
| 6.Brush | 1 pc |
| 7.Handle | 1 pc |

Out Package Info:

Dimensions: 785×785×1336mm,

Weight: 180kg

EISVOGEL Semi-automatic Cryostat Microtome



Features:

1.Cool plate:

Adjustable cool plate temperature with -45°C minimum

Super large, may hold 28 chucks at meantime

New designed hammer make the tissues platter than the traditional one.

No condensation

4 colors of specimen chucks contribute a convenient management of specimens

Adjustable Peltier elements temperature, minimum is -60°C

2. Chuck holder:

Adjustable temperature with -50°C minimum

Cutting angle is 12° universally adjustable to meet varieties of needs

Retraction function to avoid scratches on specimen

3. freezing chamber

Adjustable temperature with -40°C minimum

Cleaning system

4. The handwheel can be locked at any position

5. Injection moulding shell with mild feeling is durable and easy to clean

6. 40 decibel silent freezing system with dual compressors made in Germany

7. Blade holder: auto pump-blade device may avoid incised wound

8. Anti-fog glass window

Technical specifications:

1. Freezing chamber temperature range: -40°C ~ -10°C

2. Freezing shelf minimum temperature: -45°C

3. Chuck holder minimum temperature: -50°C

4. Minimum temperature of Peltier element on freezing shelf: -60°C

Number of Peltier element cooling spot: 2

5. Maximum specimen size: 50mm×80mm

6. Chuck hold maximum adjustable angle: 12°

7. Specimen vertical stroke: 70mm

8. Specimen horizontal stroke: 20mm

9. Rough feeding speed: (0.9mm/s; 0.3mm/s)

10. Section thickness range: 1µm~100µm adjustable;

i. 1µm~20µm, in 1µm increments;

ii. 20µm~50µm, in 2µm increments;

iii. 50µm~100µm, in 5µm increments.

11. Trimming thickness range: 10µm~400µm adjustable;

i. 10µm~50µm, in 5µm increments;

ii. 50µm~100µm, in 10µm increments;

iii. 100µm~400µm, in 50µm increments.

12. Retraction range: 0µm~80µm adjustable, in 5µm increment

13. Voltage and frequency: AC220V-240V/60Hz

14. Power: 800W

15. Net weight 125kg

16. Dimensions(W×D×H): 660×640×1130mm

BACHSTELZE Automatic Cryostat Microtome



Features:

1. Automation: automatic trimming, automatic sectioning, and manual trimming and manual sectioning available.
2. Control system: computer full-automatic control, 04 temperatures can be displayed in the same LCD.
3. Refrigeration speed: no need pre-cooling, and sectioning can be done while machine starts for 10 minutes.
4. 05 points refrigeration: freezing head, freezing knife, freezing chamber, double freezing tables.
5. Freezing head: different sectioning temperature can be set as per different tissues.
6. Functions: withdrawal, sectioning speed adjustment, hardware dynamic state display.

7. Functions: automatic/manual defrosting, lighting, disinfection with ultraviolet.
8. Functions: freezing chamber with sewer pipe, which is convenient to clean, compressor has a function of countdown, counting, and clock display duly.
9. Mechanical system: bearings imported, accurate machining, steady mechanism, tight structure of mechanical cores, free maintenance.
10. Machine is assembled with an anti-curl plate, so sectioning is smooth and reliable.
11. Rapid refrigerating system: if power off was forgot after working for 08 hours, the system will directly enter dormant state.
12. Steel knives are in common use with disposable knives.
13. Operation modes: electric sample feed, and withdrawal; there are quick and slow gears.
14. Heat absorption device for tissues: it will be mated with freezing table, meanwhile the upper and the lower will be refrigerated at same time so that freezing speed is fast.
15. Speed of sample feed and withdrawal: there are quick and slow gears.
16. Temperature is no need too low so that stimulation of hands due to lower temperature can be avoided.

Technical Specifications:

1. Refrigerating range to set: room temperature ~ -60°C
2. Section thickness: 0~100µm
3. Minimum division value: 0.5µm
4. Trimming range: 0~600µm
5. Specimen horizontal shifting distance: 25mm
6. Specimen vertical shifting distance: 60mm
7. Sectioning angle adjustable: 10°
8. Freezing positions: 10~15
9. Temperature reachable: freezing head -50°C
freezing table -45°C
freezing knife -35°C
freezing chamber -25°C±5°C
10. Voltage: 220V
11. Power: 800VA
12. Weight: 120kg

SHREKE Fully Automatic Microtome



FEATURES:

1. Streamlined molded housing results in attractive appearance and is easy to clean.
2. Full-automatic sectioning with adjustable speed and three sectioning modes: continuous, step and single.
3. LED display
4. Electronic trim function makes it easy to switch from trim and section mode
5. Specimen retraction mechanism protects specimen from unintended blade damage
6. Section counting function counts total section pieces and total thickness.
7. Unit contains a precise micro motion specimen feeding system which uses a micro computer, optical signal and stepper motor to control specimen feeding resulting in more precise specimen feeding.
8. Internationally accepted slide mechanism and groove ensures the precision of specimen movement while making the unit free from lubrication and maintenance requirements.
9. Unit contains a handwheel force balancing system for adjusting the balancing force during sectioning, making rotation even and smooth;

10. Two safety locking mechanisms on the handwheel; one locks on the top; the other locks at any position
11. The disposable blade can move horizontally to avoid the dangers of unintended contact with the blade. Every blade cuts specimen into three equal parts, which ensures the entire use of blade edge
12. The waste tray collects sectioning debris are easily removed for cleaning
13. Cassette clamp and C clamp are optional
14. Specimen orientation on X/Y axes 8°
15. Alarm to warn of forward or backwards limitation.
16. Self-diagnostic prompt.
17. Emergency stop and foot switch (optional)

Technical Specifications:

1. Section thickness range: 1~100µm
2. Section thickness setting: 1~20µm, in 1µm increment
20~60µm, in 5µm increments
60~100µm, in 10µm increments
3. Trimming thickness: 1~600µm
4. Trimming thickness setting: 1~20µm, in 1µm increment ;
10~20µm, in 2µm increments
20~50µm, in 5µm increments;
50~100µm, in 10µm increments;
100~600µm, in 50µm increments;
5. Specimen retraction: 0~95µm, in 5µm increments ;
6. Specimen vertical stroke: 70mm
7. Specimen horizontally stroke: 25mm
8. Max specimen size with cassette clamp (H×W): 40mm×28mm
9. Max specimen size with C clamp (H×W): 55mm×40mm
10. Dimensions (W×D×H): 560×470×300mm
11. Weight: 35kg

KOLIBRI Semi- automatic Microtome

A newly developed products after , it has adopted internationally advanced design. This microtome is classic of the current advance craftwork . it reach the perfect mixture of electronic and mechanism.. So the customer can operate it easily and conveniently.



Features:

- 1.It adopted the advanced import actuation system so that can slice the tissues more precisely ,more reliable and quiet.
- 2.The LCD display show the slice and trimming thickness ,section counter in Chinese or English version.
- 3.It have special function of sample retraction .it can avoid the damage due to the attrition between sample and the back of knife so that the slice is more smooth and the life of the knife is more longer .
- 4.The hand wheel can be locked in any position to make the section as safe and convenient as possible
- 5.The waste bath can be disassembled easily
- 6.It has safety alarm system

Technical Specifications

- 1.Slice thickness range: 0- 100um

2.Setting values : Fom 0-10 um in 1 um –increments

Form 10-20um in 2um-increments

Form 20-50 um in 5um-increments

Form 50-100um in 10 um-increments

3.Trimming section range :0-500um

4.Setting value : from 0-500 um in 1um-increments

5.Horizontal specimen stroke :20mm

6.Vertical specimen stroke : 60mm

7.specimen retraction :20um

8.Slip precision: $\pm 5\%$

9.Maximal slice section: 50 × 45mm

10.Dimension : 520 x 450 x 300mm

Accessories:

Standard Setting List

- | | |
|----------------------------|--------|
| 1. Disposable Blade Holder | 1 pc |
| 2. Specimen Cassette | 1 pc |
| 3. Fuse (2A) | 2 pcs |
| 4. Power line | 1 line |
| 5. Hexagonal Wrench | 1 set |
| 6.Brush | 1 pc |

Optional Accessories

Paraffin Wax Holder

Feather Microtome Blade

Package Info:

Dimensions: 680 ×560×480mm,

Weight:50 kgs

KANARIEN Rotary Microtome



Features:

- 1.It have clipper –built case , the user can put blade , wax block ,or other consumable one the top of case . it is easy .
- 2.It donot need to lubricate and maintain the microtome frequently .
- 3.The handwheel in the right can be locked in any position , and the handle can be locked in highest position , it is double safe for changing blade or tissue block .
- 4.The specimen Orienting system: axes X and Y 8°, axis 180°.
- 5.It adopt the special blade holder , it is more safe and convenient to use the disposable blade directly . it also can to longer the user life of disposable blade.

Technical Specifications

- 1.Slice thickness range: 0.5- 60um

2.Setting values : From 0-2 um in 0.5 um –increments

Form 2-10um in 1 um-increments

Form 10-20 um in 2 um-increments

Form 20-60um in 5 um-increments

3.Horizontal specimen stroke :28 mm

4.Vertical specimen stroke : 60mm

5.Slip precision: $\pm 5\%$

6.Maximal slice section: 50 × 45mm

Accessories:

Standard Setting List

- | | |
|----------------------------|-------|
| 1. Disposable Blade Holder | 1 pc |
| 2. Specimen Cassette | 1 pc |
| 3. Hexagonal Wrench | 1 set |
| 4. Brush | 1 pc |

Optional Accessories

Paraffin Wax Holder

Feather Microtome Blade

Package Info:

Dimensions: 620 ×525×455mm,

Weight:45 kgs

SPECHT Microtome

Adopted with mechanism structure internal with good stability that ensure the reproducible and evenly slices. It is universal used in the lab institute.



Technical Specifications:

1. Mechanism drive.
2. Compatible Embedding Material: Paraffin.
3. Range of the thickness of slice: 1 - 35 μm . > 35 μm , setting any thickness for slice.
4. Minimum setting thickness of slice: 1 μm .
5. Precise error: + 10%.
6. Maximum section of slice: 50 x 40 mm.
7. Dimension and weight:
8. SPECHT microtome: Length x Width x Height: 470 x 320 x 320 mm, 22.5 kg.

BIENEN Vibrating Microtome



FEATURES:

This model is specially developed according to market demand, it introduces advanced techniques from overseas. It is widely used in biological, teaching, scientific institute research etc. It is used to cut fresh or specific specimens from animals or plants; specimens can be cut immediately in no case of embedding, cooling process. Therefore, specimens don't break at all, and cells keep very good and active. It provides good conditions for immunocytochemistry research and spinal & cerebrum disorders' neurobiology. This model is a very good choice for fields in electron microscopy, dissection, cytology, physiology, biology, scientific research.

According to findings from related colleges or scientific institutes, 10 μm is the minimum section setting range when cutting brain or spinal cord specimens. And, 30 μm when cutting fresh brain, heart, kidney specimens.

Technical Specifications:

1. Speed of Specimen Sectioning: 0-1.3 mm/s (adjustable)
2. Vibrating range: 0~1 mm

3. Specimen table lifting range: 9mm
4. Section thickness setting range: >10um
5. Minimum setting value: 1um
6. Angle of blade: 15degrees
7. Working Voltage: AC220V 60Hz
AC110V 60Hz
8. Power Draw:200VA
9. Dimension:400x220x300mm
10. Net Weight:12kg

Package Info:

Dimensions:400×300×220mm,

Weight:20 kgs