

Model Rotary Microtome OPERATION MANUAL



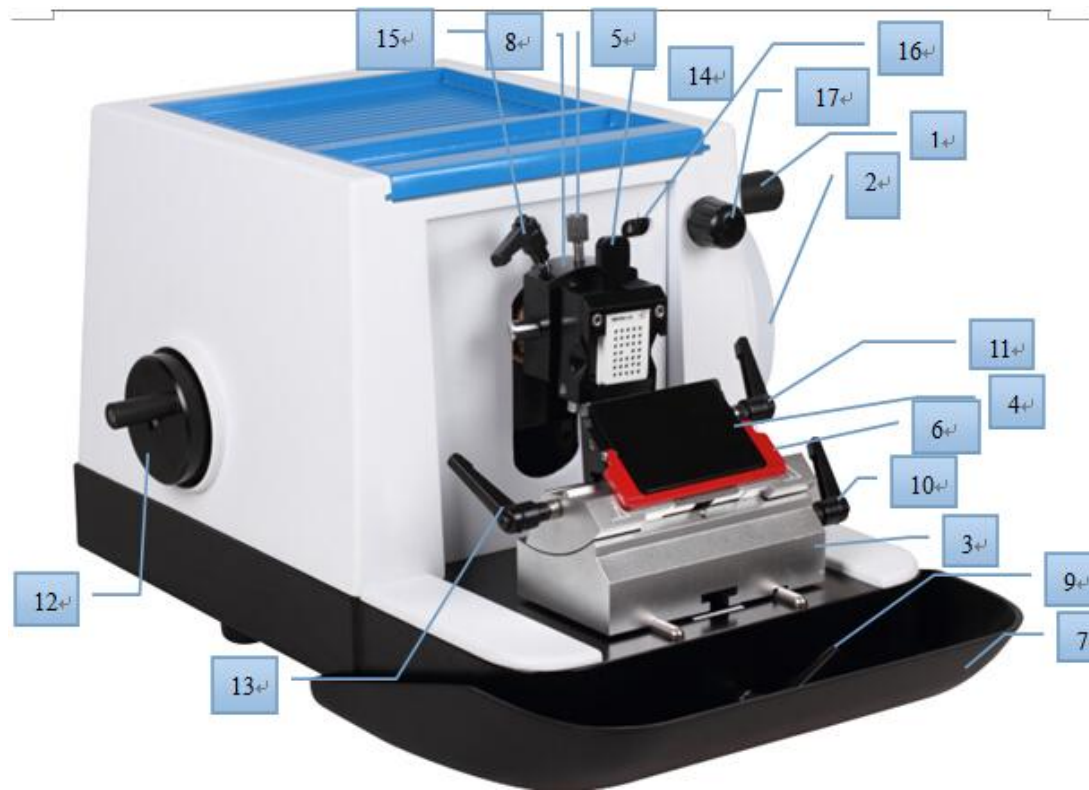
1. Summarize

It is our latest model that integrates the advantages of precision, stability and simplification which manual microtome entails, It is one of the best models for histology and pathology preparation.

2. The main technical parameters

- ◆ Section thickness range: 0-60(μm)
- ◆ Trim thickness range: unlimited
- ◆ Minimum value of section thickness: 1 μm
- ◆ Section thickness setting:
 - 0-10(μm) increment 1 μm
 - 10-60(μm) increment 5 μm
- ◆ Section precision tolerance: $\pm 5\%$
- ◆ Specimen horizontal feeding: 28mm
- ◆ Stroke length: 60mm
- ◆ Lateral knife holder
- ◆ Maximum section size: 50×45(mm)
- ◆ Unit dimension : 460×430×280(mm)

3. Structure and properties



structure drawing

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|---------------------------------|---------------------------------------|-----------------------|
| (1).Operation handwheel. | (2).Hand wheel lock handle. | (3).Tool holder base. |
| (5).Angle adjustment screws. | (6).Frame cover. | (7).Cuttings shoot. |
| (8).Samples retaining clip. | (9).Tool holder base locking handle . | |
| (11).Slicing knife fixing knob. | (12) .Fast forward the handwheel . | |
| (14).Sample clip knob. | (15). Sample clip locking lever. | |
| (16).Slice thickness show. | (17).Slice thickness adjusting knob. | |

1.Operation handwheel:when rotating the hand wheel slicing operation did not release (2),please do not shake the wheel.

2.Hand wheel lock handle: Fixation and release the hand wheel (1).

3.Tool holder base: Flexible move back and forth to exit the body.

4.Toolholder:The disposable blade installed on the tool holder, the length ≤ 180 mm.

5.Angle adjustment screws:Angle adjustment screw of samples machine body's upper part to adjust the sample body vertical tilt angle, adjustment screws of sample's right portion is used to adjust the sample body's left and right tilt .

6.Frame cover: turned up, when install wax block can ensure personal safety.

7.Cuttings shoot: Flexible mobile exit, easy cleaning.

8.Samples retaining clip: install wax block .

9.Tool holder base locking handle: Loosen and fixed the tool holder base.

10.Toolholder fixing handle: Loosen the handle, Make the slice angle can be adjusted, fixing the handle, locking hand clip.

11.Slicing knife fixing knob: Loosen and fixed the slicing knife.

12.Fast forward the hand wheel: can make the Sample clip before and after advance and retreat rapidly. The way of retouching rapidly as below: shaking operation hand wheel (1)、 (12) the fast forward the hand wheel can quickly retouching.(12) the fast forward the hand wheel must be stop after retouching. And then Continue to shake the hand wheel (1) 1~3 ring.

13.Tool holder screwed handle: Loosen can adjustable tight knife clip right and left position.

14.Sample clip knob: Adjust the handle can be fixed paraffin block.

16.Slice thickness show.

17.Slice thickness adjusting knob:The dial pointer alignment for slice thickness values (Unit:um).

4.Structure outlined

(1).Operation handwheel

Loosen the wheel locking handle (2) the operation hand wheel (1) can be both positive and negative operation. The locking handle (2), 360 degree arbitrary fixed operation hand wheel (1).

(2).Fast forward the handwheel (12):operation the fast forward hand wheel (12) can make the samples before and after fast moving, while rotating the operation hand wheel (1) can be quickly cut repair sample,after enter the normal slicing.

(3) Slicing knife angle adjustment

Loosen the knife clip locking handle (10), adjust the slicing angle $10^{\circ} \sim 30^{\circ}$ unscrew slicing knife,locking knob (11) install slicing knife,locking toolholding handle locking knob (11).Slicing toolholder is locked.

(4)Slice thickness adjustment

The red arrow numbers above the window of thickness display is desired slice thickness.In the range of 1~10um, the amount adjustment is 1um, in the range of 10~60, the amount of adjustment to 5um.

(5).Pulling the sample clip knob (14) can clamp the sample.In the clamping the sample, sample must make prominent sample clip more than 2mm, otherwise it will damage the slicing machine.

(6)After the sample slip clamp sample,loosen Sample clip locking lever (15),rotary two angle adjusting screw (5),Can make the sample in a suitable range,and then tighten sample clip locking lever (15).

(7)Loosen the tool holder base locking handle(9),tool holder base(3),front and rear positions can be free adjusted.

(8)when onward adjust the tool holder base must not be allowed to close to the samples folder, otherwise it will damage the machinery.examination, shaking operation hand wheel (1)gently, when the sample is caught in the process of ascending and descending, and tool holder base any parts shall not be collided, such as collision occurred when possible,should retreat tool holder base to not be collided location.when tool holder base locking handle (9) to be lock, tool holder also be locked, positioning.

5.Operation and usage

(1).Before the operation to check all parts of the relative position whether to meet the fourth requirements.

(2).Embedding box loaded:before loading,tool holder base moving back, and then the safety frame cover (6) turned up,ensure the safety of the user, lock the operation handwheel (1), install the embedding box.

(3).Adjust the tool holder base to the right position:when tool holder base onward adjust,shaking operation hand wheel (1)gently,check the sample clip in the ascending and descending process, Tool holder base and other parts without collision phenomenon.when close to the wax block, locking Tool holder base locking handle (9).

(3).Rapid repair samples. Shake the operation hand wheel (1)、 fast forward the handwheel (12)can quickly repair retouching.when Retouch is completed, must first stop fast forward the handwheel (12). After continue to shake the handwheel (1) 1~3 ring.

(4).Slice.

6.Matters needing attention

- When you use the disposable toolholder, please note that selecting the cutting angle.

- The harder the tissue sample, the greater the cutting angle selection.

- Fast forward the handwheel (12) have a slip mechanism on the main shaft,after sample clip forward or back to the limit.When the fast forward the handwheel (12).Sample clip back to should don't touch surface.

- There is a white warning mark on the holder base,also is tool holder base absolutely cannot cover the white warning mark. During use, when the tool holder base beyond the white markings, will damage the whole machine.