NAHITA
MICROTOME
rotary microtome
semi-automatic

semi-automatic microtome

Nahita semi-automatic microtome has been designed with the most advanced technology for routine or research applications in the field of biology, medicine or industry to slice paraffin included plant or animal tissues or harder materials suitable for manual slicing.

The microtome incorporates a stepper motor for precise and reliable control of automated sample feeding as well as an easy-to-reach touch screen panel for control and selection of slicing and operation parameters.

01
manual handwheel

06
touch screen for parameter set and control

05
universal clamp for embedding cassettes

04
blade holder, for disposable aldes

02
Locking system by means of a lever placed at the lateral base of equipment that locks handwheel at any position

03
Wide waste tray easily removable for cleaning

[01] Safety for user

The microtome design has been done taking into account user safety during all operation process. Thus, the semi-automatic microtome is equipped with the following safety devices:

- Blade holder for disposable blades with finger safety guard to protect user during work breaks.
- Locking system by means of a lever placed at the lateral base of equipment that locks handwheel at any position.
- Stop button to automatically stop the motorized movement of the sample.

[02] Robust, comfortable and easy to clean design

Semi-automatic microtome presents a sturdy base to assure a good stability during operation. The housing presents and easy to clean design to keep the equipment always in perfect conditions of use and it is supplied with a wide waste tray easily removable for cleaning.
On the upper side the microtome has a tray to keep always close at hand the different paraffin, blocks, forceps or other necessary accessories for the Daily lab work.

[03] Touch screen for parameter set and control

The touch screen is placed at one side of the microtome for easily and quickly reaching the panel and allows setting and viewing the following parameters:

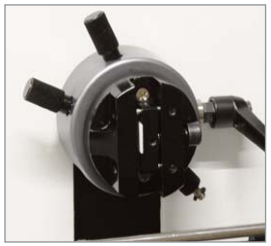
- Motorized feeding of the sample with alarm at the end of the stroke.
- Section thickness; the microtome has function of specimen retraction to avoid damages due to attrition between sample and the back of the blade so that sectioning is smoother and life of blade is longer.
- Trimming section thickness
- Slice counting

[04] Manual handwheel

Slicing is made by means of a light to turn handwheel with ergonomic handle that minimizes fatigue after long periods of use. For user safety, the handwheel is provided with a lever placed at the lateral base of equipment that locks handwheel at any position.

INCLUDED WITH MICROTOME
Standard clamp.

INCLUDED WITH MICROTOME
Clamp pfor embedding cassettes



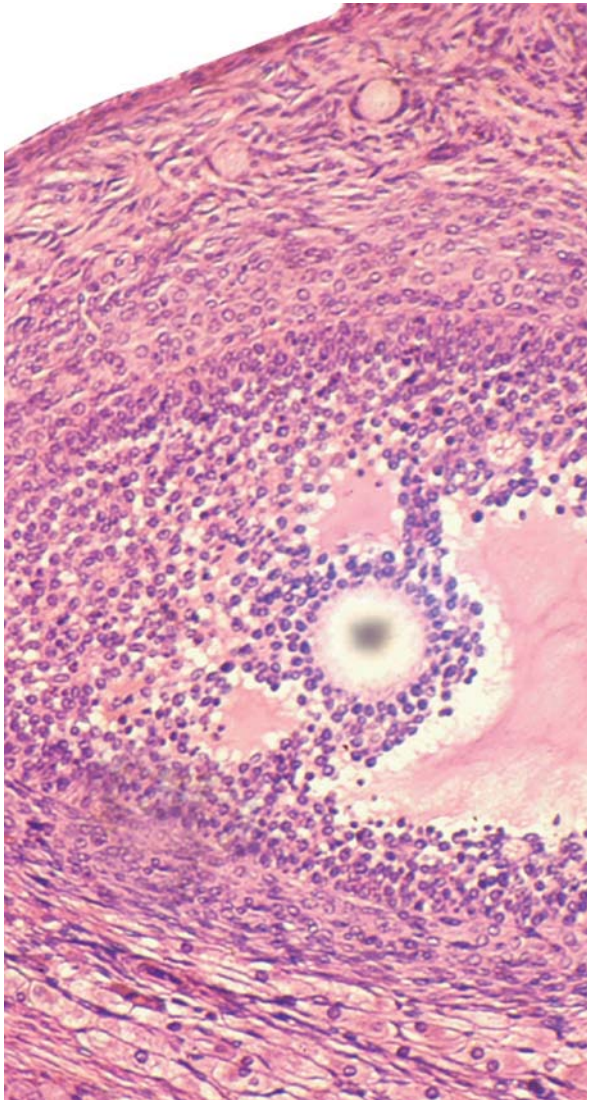
NOT INCLUDED WITH MICROTOME
CODE ZFR012
Clamp for slicing plastic layers

[05] Sample holder

The microtome is supplied with both standard and universal clamp for embedding cassettes easily interchangeable.
The sample holder presents a precise orientation system to ensure accurate orientation of the specimen surface relative to the knife.
The microtome can be also used with a special clamp for slicing plastic layers in industrial applications (ref. ZFR012, optional).

[06] Blade holder

The blade carrier, suitable for using with disposable blades, presents a lateral adjustment mechanism that allows the use of the entire width of the microtome blade. This is cost effective, especially in laboratories with high sample throughput.La base portacuchillas,
The blade carrier can be also moved front and backwards and presents a regulation system of the cutting edge angle.



rotary microtome semi-automatic technical specifications

Code	ZFP012
Section thickness range	0.5-100 µm
Section thickness setting value	De 0.5-2 µm in 0.5 µm increments
	De 2-10 µm in 1 µm increments
	De 10-20 µm in 2 µm increments
	De 20-50 µm in 5 µm increments
	De 50-100 µm in 10 µm increments
Trimming section thickness range	5-500 µm
Trimming section thickness setting value	De 5-100 µm in 10 µm increments
	De 100-200 µm in 20 µm increments
	De 200-500 µm in 50 µm increments
Horizontal sample stroke	20 mm, motorized
Vertical sample stroke	60 mm
Sample retraction	12 µm
Precision	± 5%
Max. Specimen size	50x45 mm
Blade orientation angle	0-14°
Sample orientation	8° (X-Y axis); rotatable 360°
Dimensions (LxWxH)	520x450x300 mm
Weight	30 Kg
Power	220 V / 50 Hz