



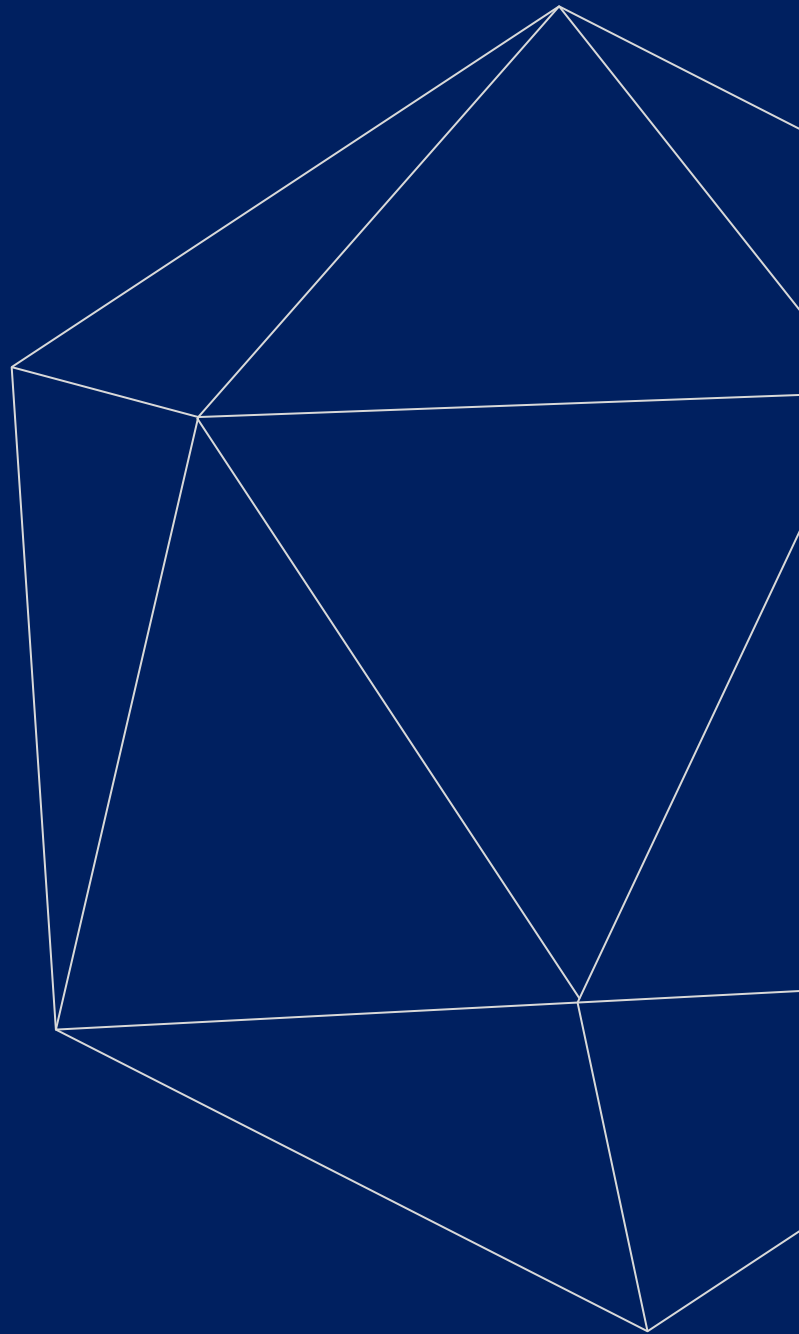
PATHOLOGICAL ANATOMY

MICROTOMES



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Intelligent Sensing Semi-Automated Rotary Microtome



Model YR416-1

Overview

In the everyday routine inside a laboratory, microscopic substances and samples are very common. Most of the time it is necessary to cut some of the samples in extremely thin slices of material, known as sections. In order to prepare a sample and to make those types of cuts, you must have a microtome, a very essential device in the microscopy field. Microtome use allows the preparation of samples for observation under transmitted light or electron radiation.

Microtomy is a method for the preparation of thin sections for materials such as bones, minerals and teeth, and an alternative to electro polishing and ion milling. Microtome sections can be made thin enough to section a human hair across its breadth.

Rotary Microtome

This is a very common microtome type. It operates with a staged rotary action such that the actual cutting is part of the rotary motion. In a rotary microtome, the knife is typically fixed in a horizontal position.

Rotary Microtome Parts

Before you purchase a microtome, you should get familiar with its major parts. First, there is the microtome base plate or stage, where rails secure the knife. Second, there is the knife holder base. Then, there is the knife holder. In addition, there is the cassette clamp or block holder, which hold the paraffin block in place. Moreover, there is the coarse hand wheel and finally there is the micron adjustment.

Rotary Microtome Uses

This rotary microtome has many great features that makes it the ideal item to have in your histology lab. First, this product adopts a streamline design, and possesses advanced features with stable performance and easy operation, the specimen feed drive is controlled by an intelligent, high precision control system, enabling semi-ultrathin slicing, starting from a thickness of 0.25µm. Secondly, the specimen feeding drive utilizes an

intelligent control system and it has high precision on cutting. Moreover, this model has advanced drive systems; multiple functions including sectioning, trimming, fast forward, fast backward, conversion, among others. In addition, this microtome adopts imported cross-roller guide rails and a screw motion mechanism to ensure precision, thus achieving superior sectioning performance.

This model has an LED screen that shows section and trimming thickness and number of sections and trims. Another great feature is that sectioning and trimming are completed through the control system. This model is equipped with a safety alert system, drive-overload protection mechanism and an automatic standby protection mechanism. Moreover, is easy and fast switching between different specimen clamps (two options: paraffin block clamp and cassette clamp). The hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of operation. In addition, the blade holder can be laterally moved to avoid moving the blade with direct contact, thereby utilizing the entire length of blade (three different segments). Finally, the large-volume waste tray is easy to remove, and items such as disposable blades can be stored on the top of the housing.



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Intelligent Sensing Semi-Automated Rotary Microtome



Model YR416-1

Technical Specifications:

- Section Thickness Setting Range: 0.25 - 100µm
- ✓ 0.25 – 2.5µm increment 0.25µm
- ✓ 2.5 – 5µm increment 0.5µm
- ✓ 5.0 – 10µm increment 1µm
- ✓ 10 – 30µm increment 2µm
- ✓ 30 – 60µm increment 5µm
- ✓ 60 – 100µm increment 10µm
- Trimming Thickness Setting Range: 1 – 600µm
- ✓ 1 - 10µm increment 1µm
- ✓ 10 - 20µm increment 2µm
- ✓ 20 - 50µm increment 5µm
- ✓ 50 - 150µm increment 10µm
- ✓ 150 - 600µm increment 50µm
- Retraction Setting Range: 0—100µm (0 is off)
- ✓ 0-5-10-15—100 (optional)
- Whole layer interval distance range: 10 – 6000µm
- ✓ 10-12-15-20-25~5000~6000µm
- Coarse feed wheel : 100-1000um per circle
- ✓ 100-200-300-400-500-600-800-1000um
- Number of slicing : 0—9999
- Number of trimming : 0—9999
- Minimum Setting of sectioning thickness: 0.25µm
- Horizontal Specimen Feed: 25mm
- Feed speed adjust: 100-1000um per circle by coarse feed wheel; Returning speed 3500um/s
- Vertical Specimen Stroke: 70mm
- Movement range of the Base of Blade Holder: 65mm (front to back)
- Movement Range of the Blade Holder: ±20mm.
- Specimen Clamp Rotation: Left and right/up and down. At any angle within 360 degrees(optional)
- The direction and speed controlled by Coarse feed wheel: can be set
- Precise trimming function: can be turned on or off
- Memory position of clamp head: two positions
- Maximum Specimen Size:70×70mm (optional clamp)
- Precision Error:±1%
- Working Voltage: AC 220V±10% 50Hz (standard model) / AC110V±10% 60HZ
- Power:100W
- Dimension: 575×420×330 mm (W×D×H)
- Net weight:37kg

Features:

- ✓ This model utilizes a human oriented design, and advanced technology. It is easy to switch between cutting and trimming function, stable performance and user-friendly.
- ✓ Specimen feeding drive utilizes an intelligent control system, it has three modes:
- ✓ Conventional mode , Intelligence sensing mode and whole layer cutting mode.
- ✓ Advanced drive systems including multiple functions, sectioning, trimming, fast forward, fast backward and quick conversion.
- ✓ The imported cross-roller guide rails and a screw motion mechanism to ensure precise result in superior sectioning performance.
- ✓ OLED screen shows section and trimming thickness, as well as number of sections.
- ✓ With a security alarm system, driver overload protection system and auto-sleep protection system.
- ✓ Easy and fast switching between different specimen clamps (two options: paraffin block clamp and cassette clamp).
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety of the slicing operation.
- ✓ Blade holder can be laterally moved to avoid moving the blade with direct contact, thereby utilizing the entire length of the blade (three different segments).
- ✓ The red knife guard on the blade holder covers the whole length of the blade to protect users. The push bar enables blades to be changed easily.
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of sectioning.
- ✓ Large-volume waste tray is easy to remove and clean, and items such as disposable blades can be stored on the top of the housing..



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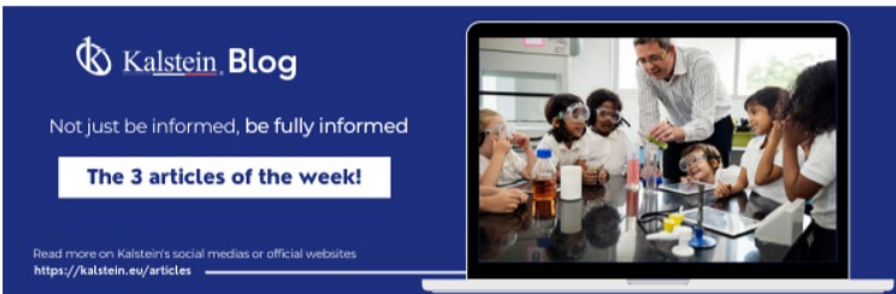
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