



PATHOLOGICAL ANATOMY

MICROTOMES



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Fully Automated Rotary Microtome

Model YR415-1

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.

Features:

- ✓ This machine uses a streamlined design, with advanced features, stable and reliable performance and ease of use;
- ✓ The feeding system uses an intelligent control mechanism; enabling quick switching between manual or automated smart sectioning modes; automatic slicing speed is adjustable.
- ✓ Advanced drive systems and multiple functions including sectioning, trimming, fast forward, fast backward, quick mode conversion including automatic retraction.
- ✓ Incorporates an international advanced screw motion mechanism to ensure precision, thus achieving superior sectioning performance.
- ✓ Pure-green digital display of slice thickness, trimming thickness, slice count and slice speed.
- ✓ Trimming and slicing are operated under a control system and can be switched easily. The automated slicing controller can be equipped at either the left or right side; when automated slicing controller is off, semi-auto slicing or trimming can still be performed.
- ✓ Automatic sectioning speed is continuously adjustable.
- ✓ With safety and emergency braking systems, security alarm systems, driver overload protection and an auto-sleep protection system.
- ✓ Features 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 safety of operation.
- ✓ Blade holder can be laterally moved to avoid moving the blade with direct contact, thereby enabling use of the entire length of the blade. (three different segments).
- ✓ The red protection bar on the blade holder covers the whole length of blade to protect the user and the push bar enables easy changing of the blade.
- ✓ 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 items such as disposable blades can be stored on the top of the housing.

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
 - 010—020µm increment 2µm
 - 020—050µm increment 5µm
 - 050—150µm increment 10µm
 - 150—600µm increment 50µm
- ✓ Retraction Setting Range: 0—50µm (0 is off)
 - 5-10-15—50 (optional)
- ✓ Minimum Setting of Sectioning Thickness: 0.25µm
- ✓ Horizontal Feed: 28mm
- ✓ Vertical Specimen Stroke: 70mm
- ✓ Specimen Holder Rotation: at any angle within 360 degrees
- ✓ Movement Range of the Base of Blade Holder Base: 0-60mm (front to back)
- ✓ Movement Range of the Blade Press plate: 0-23mm
- ✓ Specimen Clamp Rotation: at any angle within 360 degrees
- ✓ Specimen Orientation: XY – 8°
- ✓ Maximum Specimen Size: 70×70mm
- ✓ Feed speed adjust: 1500µm/s ~ 3500µm/s
- ✓ Precision Error: ±1%
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC 110V±10% 60Hz
- ✓ Power: 150W
- ✓ Dimensions: 580× 475× 340mm(W×D×H)
- ✓ Net Weight: 41kg



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Rotary Microtome Model YR416

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 LCD 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.



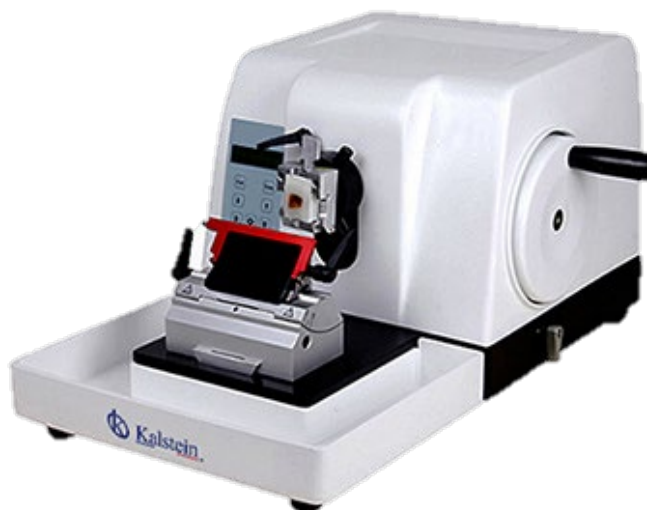
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Rotary Microtome Model YR416

Features:

- ✓ This product adopts a streamline design, and possesses advanced features with stable performance and easy operation.
- ✓ Specimen feed drive is controlled by an intelligent, high precision control system, enabling semi-ultrathin slicing, starting from a thickness of 0.25µm.
- ✓ Specimen feeding drive utilizes an intelligent control system, it has high precision on cutting.
- ✓ Advanced drive systems; multiple functions including sectioning, trimming, fast forward, fast backward, conversion etc.
- ✓ Adopts imported cross-roller guide rails and a screw motion mechanism to ensure precision, thus achieving superior sectioning performance.
- ✓ LCD screen shows section and trimming thickness, number of sections and trims.
- ✓ Sectioning and trimming are completed through the control system.
- ✓ equipped with a safety alert system, drive-overload protection mechanism and an automatic standby protection mechanism.
- ✓ 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 and convenience of operation.
- ✓ Blade holder can be laterally moved to avoid moving the blade with direct contact, thereby utilizing the entire length of blade (three different segments).
- ✓ The red bar on the blade holder covers the whole length of blade to protect the user and the push bar enables the easy changing of the blade.
- ✓ 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 items such as disposable blades can be stored on the top of the housing.

Technical Specifications:

- ✓ Section Thickness Setting Range: 0 - 60µm
- ✓ Trimming Thickness Setting Range: 0 - 100µm
- ✓ Section thickness adjustment:
 - ✓ 0 - 1µm increment 0.25µm
 - ✓ 1 - 10µm increment 1µm
 - ✓ 10 - 20µm increment 2µm
 - ✓ 20 - 60µm increment 5µm
- ✓ Total Horizontal Specimen Feed: 26 mm
- ✓ Vertical Specimen Stroke: 52 mm
- ✓ Specimen Clamp Rotation: any angle within 360 degrees
- ✓ Specimen Orientation: XY – 8°
- ✓ Automatic return of specimen
- ✓ Minimum Setting of Sectioning Thickness: 0.25µm
- ✓ Maximum Specimen Size: 50×50mm
- ✓ Precision Error: ±1%
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC 110V±10% 60Hz
- ✓ Power: 100W
- ✓ Dimensions: 580×410×305mm(W×D×H)
- ✓ Net weight: 29kg.



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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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Rotary Microtome Model YR417

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. Streamlined housing not only improves the appearance but also facilitates the cleaning process without the need to open the housing. This model uses imported cross-roller guide rails and a screw motion mechanism to ensure precision resulting in superior sectioning performance. Its advanced high-precision micro-drive feed system enables even

and high precision sectioning. This model has a hand-wheel that is rotated based on a mechanical balance mechanism, and can be locked at any position, providing the maximum level of safety and convenience. The cassette holder can be locked at any position along each of the three axes, enabling easy adjustment of the specimen-sectioning angle.

There are multiple functions including specimen retraction and trimming functions, along with replaceable specimen holding system. In addition, the small coarse-advance hand-wheel is close to the operator, in accordance with an ergonomic design. The precise positioning system is not only easy to use, but also provides accurate X- and Y- axis adjustment. The blade holder can be laterally moved and adjusted, without the need to manually move the blade, that way it enables the use of the full length of the blade (slicing at three different segments). Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of sectioning.

Product Name: YR417 Rotary Microtome.

Product Categories: Microtome.



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Rotary Microtome Model YR417

Features:

- ✓ Streamlined housing not only improves the appearance but also facilitates the cleaning process without the need to open the housing.
- ✓ Uses imported cross-roller guide rails and a screw motion mechanism to ensure precision resulting in superior sectioning performance.
- ✓ Advanced high-precision micro-drive feed system enables even and high-precision sectioning.
- ✓ Hand-wheel is rotated based on a mechanical balance mechanism, and can be locked at any position, providing the maximum level of safety and convenience.
- ✓ Cassette holder can be locked at any position along each of the three axes, enabling easy adjustment of the specimen sectioning angle.
- ✓ Multiple functions including specimen retraction and trimming functions, along with replaceable specimen holding system.
- ✓ Small coarse-advance hand-wheel is close to the operator, in accordance with an ergonomic design.
- ✓ The precise positioning system is not only easy to use, but also provides accurate X- and Y- axis adjustment.
- ✓ Easy and fast switching between different specimen clamps (two options: paraffin block clamp and cassette clamp).
- ✓ The red bar on the blade holder covers the whole length of blade to protect the user and the push bar enables easy changing of the blade.
- ✓ The blade holder can be laterally moved and adjusted, without the need to manually move the blade, enabling use of the full length of the blade (slicing at three different segments).
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of sectioning.
- ✓ Well-designed tray on the top of housing, convenient use.
- ✓ Magnetically fixed large waste tray is easy to install and uninstall.

Technical Specifications:

- ✓ Section Thickness Setting Range: 0–60µm.
- ✓ Section thickness setting options:
 - 0–20µm increment 1µm.
 - 20–60µm increment 5µm.
- ✓ Trimming Thickness Setting Range: 0 - 60µm
- ✓ Minimum Setting of Sectioning Thickness: 1µm
- ✓ Maximum Specimen Size: 70×70mm (optional clamp)
- ✓ Trimming Thickness: 15µm and 35µm
- ✓ Specimen Retraction: 60µm (optional)
- ✓ Total Horizontal Specimen Feed: 28mm;
- ✓ Vertical Specimen Stroke: 70mm
- ✓ Movement Range of the Base of Blade Holder Base: 0-60mm (front to back)
- ✓ Movement Range of the Blade Press plate: 0-23mm
- ✓ Specimen Holder Rotation: at any angle within 360 degrees
- ✓ Specimen Orientation: XY – 8°
- ✓ Precision Error: ±1%
- ✓ Dimensions: 590×500×330mm (W×D×H)
- ✓ Net weight: 37kg.



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Semi Automated Rotary Microtome

Model YR417-1



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.

Features:

- ✓ This model utilizes a human oriented design, easy to switch between cutting and trimming, advanced technology, and stable performance, and is 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;
- ✓ Uses imported cross-roller guide rails and a screw motion mechanism to ensure precision resulting in superior sectioning performance;
- ✓ OLED screen shows section and trimming thickness, as well as number of sections;
- ✓ With a safety and emergency braking system, security alarm system, driver overload protection, 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 bar on the blade holder covers the whole length of blade to protect the user and the push bar enables easy change of the blade;
- ✓ 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.

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)
- 5-10-15-50 (optional)
- ✓ Whole layer clearance distance Range: 10 - 6000µm
- 10-12-15-20-25-5000-6000µm
- ✓ Minimum Setting of Sectioning Thickness: 0.25µm
- ✓ Total Horizontal Specimen Feed: 30mm
- ✓ Vertical Specimen Stroke: 70mm
- ✓ Movement Range of the Base of Blade Holder Base: 0-65mm (front to back)
- ✓ Movement Range of the Blade Press plate: 0-20mm
- ✓ Cutting/Trimming count number: 0-9999
- ✓ Memory position of clamp head: two position set
- ✓ The optional separate wireless controller
- ✓ Specimen Clamp Rotation: at any angle within 360 degrees.
- ✓ Specimen Orientation: XY - 8°
- ✓ Maximum Specimen Size: 60×70mm (optional clamp)
- ✓ Feed speed adjust: 2000µm/s
- ✓ Precision Error: ±1%
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model) / AC110V±10% 60HZ
- ✓ Power: 100W
- ✓ Dimensions: 480×410×310 mm (W×D×H)
- ✓ Net weight: 28kg



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Rotary Microtome Model YR418

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.

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. This microtome is the perfect choice for you if what you are looking for is a standard rotary type.

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.

Features:

- ✓ Streamlined housing not only improves the appearance but also facilitates the cleaning process without the need to open the housing; Also can put some consumables;
- ✓ Uses imported cross-roller guide rails and a screw motion mechanism to ensure precision
- ✓ resulting in superior sectioning performance;
- ✓ Advanced high-precision micro-drive feed system enables even and high-precision sectioning;
- ✓ Hand-wheel is rotated based on a mechanical balance mechanism, and can be locked at any position, providing the maximum level of safety and convenience;
- ✓ Cassette holder can be locked at any position along each of the three axes, enabling easy adjustment of the specimen sectioning angle;
- ✓ The precise positioning system is not only easy to use, but also provides accurate X- and Y- axis adjustment;
- ✓ Easy and fast switching between different specimen clamps (two options: paraffin block clamp and cassette clamp);

- ✓ The red bar on the blade holder covers the whole length of blade to protect the user and the push bar enables easy changing of the blade;
- ✓ The blade holder can be laterally moved and adjusted, without the need to manually move the blade, enabling use of the full length of the blade (slicing at three different segments);
- ✓ Ergonomic design, greatly reducing the discomfort associated with long hours of operation;
- ✓ Hand-wheel balance is precisely adjusted and can be locked at any position to ensure the safety and convenience of sectioning;
- ✓ Well-designed tray on the top of housing, convenient use;
- ✓ Magnetically fixed large waste tray is easy to install and uninstall.

Technical Specifications:

- ✓ Section Thickness Setting Range: 0–60µm
- ✓ Section thickness setting options:
- ✓ 0–10µm increment 1µm 10–20µm increment 2µm 20–60µm increment 5µm
- ✓ Minimum Setting of Sectioning Thickness: 1µm
- ✓ Precision Error: $\pm 1\%$
- ✓ Maximum Specimen Size: 60×50mm
- ✓ Total Horizontal Specimen Feed: 29mm;
- ✓ Vertical Specimen Stroke: 60mm
- ✓ Specimen Retraction: 0~28µm
- ✓ Specimen Orientation: XY – 8°
- ✓ Dimensions: 570×440×290mm (W×D×H)
- ✓ Net weight: 28kg



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Rotary Microtome

Model YR420

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. You should know that the model we are offering you is a high-end device that will give you the results you need, in order to accomplish the exact sample cuts.

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. This microtome is the perfect choice for you if what you are looking for is a standard rotary type.

Product Name: YR420 Rotary Microtome.

Product Categories: Microtome.

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.

Features:

- ✓ Section Thickness Setting Range: 1 -35µm for continuous sectioning.

The sectioning thickness can be set at any value

>35µm

Rotary Microtome Uses

The section thickness setting range is 1 -35 µm for continuous sectioning. You should know that the sectioning thickness can be set at any value >35 µm. The minimum setting of sectioning Thickness is 1µm with a precision Error of ±1?. The maximum Specimen Size is 60 × 40 mm. Moreover, the blade holder is capable of holding both high profile and low-profile blades. The blade holder for disposable blade and blade holder for steel blade can be quickly exchanged. Finally, its dimensions are 420 × 330 × 330 mm (W×D×H) and its net weight is 19 kg.

- ✓ Minimum Setting of Sectioning Thickness: 1µm.
- ✓ Precision Error: ±1?.
- ✓ Maximum Specimen Size: 60×40 mm.
- ✓ Blade holder is capable of holding both high-profile and low-profile blades.
- ✓ Blade holder for disposable blade and blade holder for steel blade can be quickly exchanged.
- ✓ Dimensions: 420×330×330mm (W×D×H).
- ✓ Net weight: 19kg.



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Rotary Microtome Model YR421

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. You should know that the model we are offering you is a high-end device that will give you the results you need, in order to accomplish the exact sample cuts.

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. This microtome is the perfect choice for you if what you are looking for is a standard rotary type.

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 is a very common device in microscopic area, which is why we are giving you the high-end option according to your demands and needs. The section thickness setting range is 1 -35 μm for continuous sectioning. You should know that the sectioning thickness can be set at any value $>35 \mu\text{m}$. The maximum

Specimen Size is $50 \times 40 \text{ mm}$. The minimum setting of sectioning Thickness is $1 \mu\text{m}$ with a precision Error of $\pm 5\%$. Finally, its dimensions are $420 \times 330 \times 330 \text{ mm}$ (WxDxH) and its net weight is 19 kg.

Product Name: YR421 Rotary Microtome.

Product Features:

- ✓ Section Thickness Setting Range: 1 - 35 μm for continuous sectioning.

The sectioning thickness can be set at any value $>35\mu\text{m}$

- ✓ Maximum Specimen Size: $50 \times 40 \text{ mm}$.
- ✓ Minimum Setting of Sectioning Thickness: $1 \mu\text{m}$.
- ✓ Precision Error: $\pm 5\%$.
- ✓ Dimensions: $420 \times 330 \times 330 \text{ mm}$ (WxDxH).
- ✓ Net weight: 19kg.



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Rotary Microtome Model YR422

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. You should know that the model we are offering you is a high-end device that will give you the results you need, in order to accomplish the exact sample cuts.

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. This microtome is the perfect choice for you if what you are looking for is a standard rotary type.

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 an easy-to-clean housing. The section thickness setting range is 1 -35µm for continuous sectioning. You should know that the sectioning thickness can be set at any value >25µm. The minimum setting of sectioning Thickness is 1µm with a precision Error of ±5%. The maximum Specimen Size is 40×30 mm. Moreover, blade holder can be moved forward-or-backward and left-or-right resulting in easy trimming and sectioning operations. In addition, this model has an LCD screen that shows the number of sections and trims, equipped with a safety alert system. Finally, its

dimensions are 340×335×270mm (W×D×H) and its net weight is 18.5kg.

Features:

- ✓ Easy-to-clean housing.
- ✓ Blade holder can be moved forward-or-backward and left-or-right resulting in easy trimming and sectioning operations.
- ✓ LCD screen shows the number of sections and trims; equipped with a safety alert system.

Technical Specifications:

- ✓ Section thickness range
- ✓ 0 - 25µm for continuous sectioning.
- ✓

The sectioning thickness can be set at any value > 25µm

- ✓ Minimum Setting of Sectioning Thickness: 1µm.
- ✓ Maximum Specimen Size:40×30mm.
- ✓ Precision Error: ± 5%.
- ✓ Dimensions: 340×335×270mm (W×D×H).
- ✓ Net weight: 18.5kg



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Rotary Microtome Model YR423

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

Microtomy is a method for preparing thin sections for materials such as bones, minerals, and teeth, and an alternative to electropolishing and ion milling. The microtome sections can be made thin enough to cut a human hair across the width. You should know that the model we offer you is a high-end device that will give you the results you need to achieve the exact sample cuts.

Rotary Microtome

The Kalstein YR423 rotary microtome is a simple but practical model. This product consists of a crank drive system and ratchet wheel feed mechanism, and can provide smooth, continuous cutting.

Product name: YR423 rotary microtome.

Product categories: Microtome.

Main Features and Technical Specifications

- ✓ Section thickness setting range: 0 - 25 μm with an increment of 1 μm
- ✓ Cutting thickness adjustment range: 0 - 500 μm
- ✓ Minimum setting of cutting thickness: 1 μm
- ✓ Maximum sample size: 35 × 25 mm
- ✓ Total horizontal sample feed: 30mm
- ✓ Sample vertical stroke: 55 mm
- ✓ Accuracy error: $\pm 5 \%$
- ✓ Dimensions: 280 × 300 × 240mm (W × D × H)
- ✓ Net weight: 20kg



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Cryostat Microtome

Model YR426

Overview

The YR426-1 Cryostat Microtome belongs to one class of medical equipment. It is a device for rapid pathological section analysis of human body, animal and plant tissues. It is widely used in hospitals, medical schools, forensics, animal and plant research units for pathological diagnosis, analysis, and research.

The machine is mainly composed of four parts:

- 1、The upper part of the machine is a microcomputer control part and panel operation, temperature display, and working status display part.
- 2、The middle part is a low-temperature freezer, which is the part for quick freezing of biopsy tissue and sectioning operation.
- 3、The lower part is the refrigeration part of the compressor unit.
- 4、The middle and rear parts are mechanical transmission and motor drive parts.

Scope of application

Cell pathology section, biological fiber section, etc.

Technical Specifications

- ✓ Chamber temperature :10°C ~ -50°C
- ✓ Freezing shelf temperature:0°C ~ -50°C
- ✓ Temperature control range of sample chuck: 10°C ~ -50°C
- ✓ Additional semiconductor refrigeration in the freezer: -60°C
- ✓ Number of freezing station : 36 pcs
- ✓ Pelletier number : 8 pcs
- ✓ Semiconductor fast cooling working time: 15 minutes
- ✓ Maximum specimen size: 55mm×80mm
- ✓ Vertical stroke: 65mm Horizontal stroke: 22mm
- ✓ Electric feed speed: 0.9mm/s、0.45mm/s
- ✓ Disinfection method : UV
- ✓ Section thickness range: 0.5μm~100μm Adjustable
 - 0.5μm~5μm Increment0.5μm 5μm~20μm Increment1μm
 - 20μm~40μm Increment2μm 40μm~100μm Increment5μm
 - Trimming thickness range :10μm~600μm Adjustable
 - 10μm~50μm Increment5μm 50μm~100μm Increment10μm
 - 100μm~600μm Increment50μm
- ✓ Specimen retraction: 0~100μm Adjustable, Increment5μm

The 10-inch color LCD touch screen can separately display the total number of slices and the total slice thickness, slice thickness, specimen retraction value, temperature control, date, time, temperature, timing sleep switch, defrost and other functions. The operation display can be set to switch between Chinese and English operation interface, which is convenient for different users all over the world to operate.

Humanized hibernation function: After selecting the hibernation state, the temperature of the freezer compartment can be automatically controlled between -1 and -9°C. After the hibernation is canceled, the sectioning temperature can be reached within 15 minutes.

Imported dual compressors refrigerate the freezing box, freezing table, knife holder, sample chuck, and tissue presser at five points respectively.

- ✓ The knife holder is equipped with a blade thruster and a knife guard to cover the full length of the blade, which protects the user safely.
- ✓ Equipped with rubber instrument rack and waste box X-axis 360°, Y-axis 12° universal rotation, snap-on tissue chuck, easier and faster to install the organization
- ✓ Anti-adhesive tissue flattening device, with specimen refrigeration, the temperature can reach -50°, which is convenient for freezing the tissue and saving operation time
- ✓ The temperature sensor self-checking function can automatically detect the working status of the sensor
- ✓ Single-layer heated glass door, effectively preventing water mist condensation Hand wheel positioning 360° locking function at any point
- ✓ The sample chuck travels to the limit position and automatically returns to the starting position function
- ✓ Dimension size(mm) : 700×760×1160mm Weight: 135 KGS



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Freezing chamber temperature It can reach -30°C in 30-40 minutes



Large 10-inch color display screen

Simple operation, no need to recite complex code

Support for three built-in languages: Chinese, English and Portuguese



**Cryostat Microtome
Model YR426**



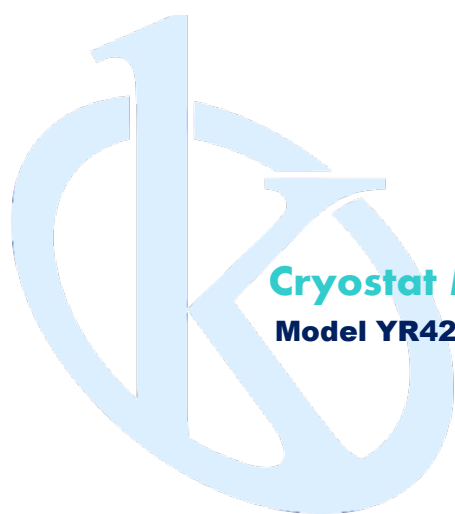
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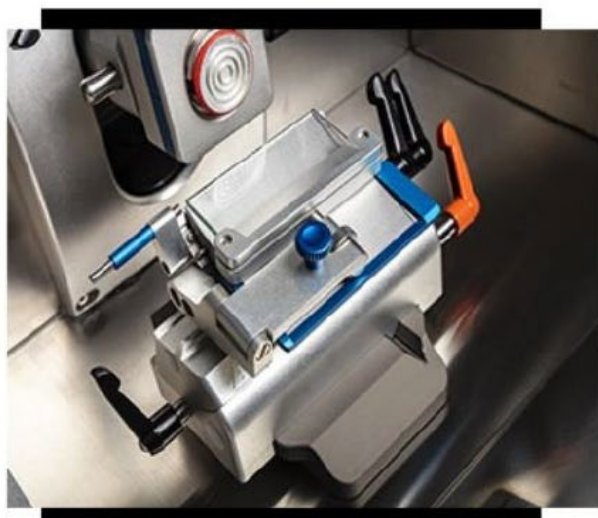




Cryostat Microtome
Model YR426



A GOOD
HELPER FOR RAPID PATHOLOGY



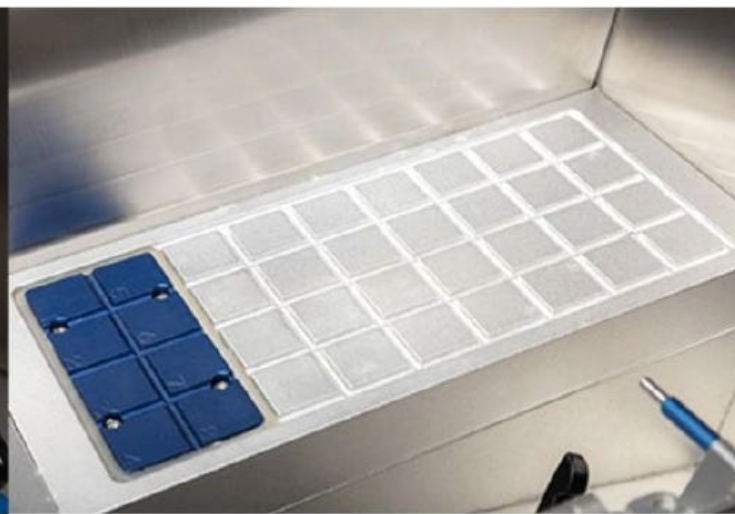
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Section thickness range
0.5µm-100µm adjustable
0.5µm-5µm , in0.5µm increment

Number of freezing station36
Peltier number:8



Cryostat Microtome
Model YR426



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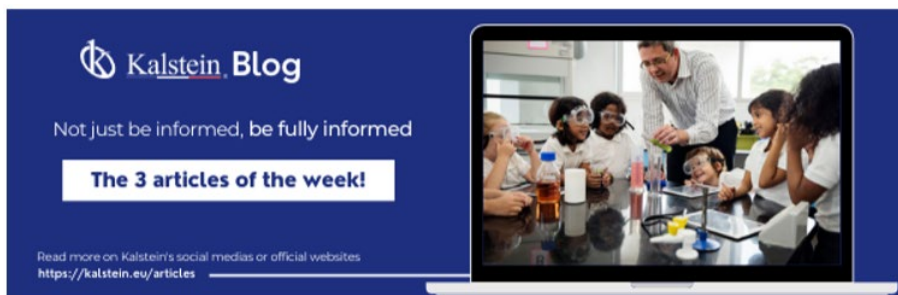
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