

## Rotary Microtome



**Model : YR419**  
**Rotary Microtome**  
**Manufacturer : Kalstein**  
**Price : \$ 14,400.00**

**Description :**

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 an ergonomic design, greatly reducing the discomfort associated with long hours of operation. It is ideal for sectioning using either a standard blade or disposable blade. Cassette holder can be locked at any position along each of the three axes, enabling easy adjustment of specimen slicing angle. In addition, right operation hand-wheel can be locked at any position, providing maximum safety and convenience. It has a specimen retraction and replaceable cassette holder system. The blade holder base can be moved forward-or-backward and left-or-right flexibly to eliminating any contact of the fingers with the blade. It has a convenient N-type blade holder and E-type holder for disposable blades. 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

## Rotary Microtome

easy-to-clean well-sealed housing does not need to be removed for cleaning. Its large-volume waste tray is easy to remove and clean.

Product Name: YR419 Rotary Microtome.

Product Categories: Microtome.

### Features:

- Ergonomic design, greatly reducing the discomfort associated with long hours of operation.
- Ideal sectioning for using either a standard blade or disposable blade.
- Cassette holder can be locked at any position along each of the three axes, enabling easy adjustment of specimen slicing angle.
- Right operation hand-wheel can be locked at any position, providing maximum safety and convenience.
- Specimen retraction and replaceable cassette holder system.
- Blade holder base can be moved forward-or-backward and left-or-right flexibly to eliminating any contact of the fingers with the blade.
- Convenient N-type blade holder and E-type holder for disposable blades.
- 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.
- Easy-to-clean well-sealed housing does not need to be removed for cleaning.
- Large-volume waste tray is easy to remove and clean.

### Major Technical Specifications:

- Section Thickness Setting Range: 0 - 60 $\mu$ m.
- Section thickness setting: 0 - 60 $\mu$ m.

0 - 2 $\mu$ m      increment 0.5 $\mu$ m.

2 - 10 $\mu$ m      increment 1 $\mu$ m.

10 - 20 $\mu$ m      increment 2 $\mu$ m.

20 - 60 $\mu$ m      increment 5 $\mu$ m.

Precision Error:  $\pm$ 1%.

## Rotary Microtome

Minimum Setting of Sectioning Thickness: 0.5?m.

Maximum Specimen Size: 60x50 mm.

Total Horizontal Specimen Feed: 24 mm.

Vertical Specimen Stroke: 52 mm.

Specimen Retraction: 0 - 28 mm.

Trimming Thickness: 1 - 60?m.

Dimensions: 565x440x285mm (WxDxH).

Net weight: 27kg.