

## *Microtomes*

MT series



For over *50* years, *WESWOX* Microtomes have been the classic sectioning machine in virtually every medical teaching and research laboratory and it's still unequalled in performance.

*WESWOX* MICROTOME is an assortment of exactness precision, quality and is unparalleled for high efficiency and economy.

It is a quality sectioning device with rigid built-in beautiful body, versatile style and imposing finish.





**WESWOX Senior Rotary Microtome** is a product of meticulous quality and is designed to achieve perfect and accurate results in serial sectioning. It has produced stupendous results for cutting sections as thin as a 1 micron and for serial sections of invariable uniformity.

**WESWOX Senior Rotary Microtome** is human engineered to give you a simple operate to reliable, precise instrument for day-in/day-out productivity.

## MT-1090A (SPENCER 820 TYPE)

### Special Features

- Surface grinding on base, horizontal, vertical and inclined slide for smooth and accurate motion.
- Ratchet wheel, CAM and CAM weight are made of GUN METAL.
- Axel and catcher made from special steel made on imported machine.



### Technical Specifications :

#### STURDY, RIGID CONSTRUCTION

The heavy duty base provides support for mechanism and knife holder. An aluminium cover is hinged to the base, protects the interior parts and opens to provide easy access for cleaning and lubrication.

#### AUTOMATIC FEED RELEASE WITH AUTOMATIC SAFETY DEVICE

Total feed excursion is 28mm. When the limit of the feed is reached, a safety device automatically disengages the feed mechanism to eliminate jamming and possible damage to the feed screw.

#### CRITICAL ACCURACY

With every complete revolution of the counter balanced drive wheel, the feed pawl engages precisely into the teeth of the ratchet wheel which moves forward and advances the object holder through a cone and inclined plane mechanism in such precise increments that specimens can be sectioned down to even 1 micron in thickness.

#### FRONT-POSITIONED FEED INDICATOR WITH LATEST CAM DRIVE SYSTEM

The feed indicator, graduated in microns is conveniently located at front of the instrument and feed setting from 1 to 50 microns in steps of 1 micron each is controlled by a knurled knob at the back of the microtome. The sturdy knife holder in addition to knife elevating and leveling adjustments provides lateral movements for complete use of knife edge. The angle adjustable upto 300 is indicated on a reference scale. A streamlined WESWOX razor 120mm made from highest quality fine grain tool steel which is heat treated for micro structure is furnished with the instrument.

# MT-1090A

### Technical Data

Feed adjustment	1-50 microns (in steps of 1 micron each)
Opening of object Clamp	(Ball and Flange type) 37x27 mm
Total feed excursion	28mm
Overall Size	16"x10"x9" and approx. weight 27Kg. In cardboard box or 60Kg in wooden case

### Standard Accessories

120mm Razor with back and handle in case.	One
Object holder dia 22, 25, 28mm	Three
tightening key.	One
Dust cover and oil cane for lubrication.	One

The microtome is furnished in epoxy finished & complete with all above accessories packed in card board box with instruction manual.



## Microtome Accessories

(For MT-1090A)

WESWOX Microtome Razors are fabricated from fine grain tool steel and have a true edge tested for microscopic precision.

Complete with back and handle in plywood case.

- Razor 120mm both side wedged
- Razor 140mm both side wedged
- Razor 150mm both side wedged
- Razor 160mm both side wedged
- Razor 180mm both side wedged
- Razor 200mm both side wedged
- Razor 240mm both side wedged
- Microtome Razor Attachment for Safety Blade
- Microtome Razor Attachment for disposable blade
- LEATHER STRAP (with clamping device) : A special quality leather strap for final honing of microtome Razors. Approximate size 2"x12". Duly mounted on wooden base with 'G' Clamp for fixing on the table.
- L-Moulds 50x25x15mm (pair) Brass
- Back of Razors for Rotary Microtome upto size of 160 mm.
- Object Holder for spencer Type Rotary Microtome (Set of 3)
- Disposable blades high profile PTEE coated No.7310. Packet of 50 Nos.

## MT-1050

**WESWOX Hand Microtome** is used to cut thin sections of Microscopic materials, such as specimen parts of plants and animals. It is considered as the basic form of a microtome permitting microtomic cuts by hand in a quick and accurate way. The microtome is suitable for practical courses in microscopy, for field work during excursions, for school education and for a serious amateur of biology.

### Technical Specifications :

- A well constructed hand operated bench microtome can be securely attached to the edge of any bench, table or work surface with the help of fixing clamp.
- The section platform has a smooth wide flat top and durable glass surface to guide the sectioning razor & to protect the hand.
- The feed screw has fine and long threads so that the embedded material may be advanced very gradually to cut thin sections easily.
- The Razor is made of surgical quality steel with 75mm cutting edge.



## MT-1060

(Cambridge Type)



**WESWOX Rocking Microtome** is very well-known and one of the best established microtomes in the world which has given outstanding service to numerous microtomists through the years.

It is designed for sectioning comparatively soft, wax-embedded Tissues with a thickness range of 2µm to 24µm, in steps of 2µm.

Calibrated in 2 micron divisions, the section cutting thickness can be set easily and quickly by a single control. It is recommended for elementary biology & pathology students.

**WESWOX Rocking Microtome** is an extremely reliable instrument comprising of three moving parts. The lead screw mechanism, incorporates quality precision engineering and the cutting stroke is controlled by a single control lever which minimizes the operator skill required. It carries wide choice of specimen holders, cylindrical holders, standard orientating & wood block holders for sectioning wax embedded specimens.

### Technical Data :

Thickness Range : 2 mm to 24mm in steps of 2mm  
 Overall Dimensions : 390x200x200mm  
 Net Weight : 4 kgs

This instrument is supplied with the following accessories in a storing cabinet:

- Three Standard Specimen Holders
- Razor with built-in handle in a box
- Vinyl dust cover

## MT-1100C

(Without CO<sub>2</sub> Cylinder)



**WESWOX Freezing Microtome** is used for cutting thin to semi-thin sections of fresh, frozen tissue and semi-thin sections from industrial products such as some textiles, paper, leather, soft plastics, rubber, powders, pastes and food products.

Since most biological specimens are too squishy to cut at room temperature, **WESWOX** freezing microtome (cryostat) freezes the specimen to harden it so it can be sliced without ripping and destroying it.

This microtome is designed to the full purpose of accurate and quick diagnosis in surgery and also for the inspection of quality of rubbes and others. It has a table clamping device.

### Technical Specifications

- The specimen rises accurately and automatically by handle.
- The CO<sub>2</sub> freezing attachment is provided with a hard rubber non-conducting plate between the corrugated surface to which the object is frozen and the rest of the apparatus, which prevents the conduction of heat from the other parts of the apparatus to the specimen; thus saving time and CO<sub>2</sub>. In operating this freezing attachment, the valve at the bottom should first be closed and valve at the cylinder slightly opened to admit the gas into the tube.
- The Automatic feed mechanism can be thrown out of action by turning the Index Finger to the extreme left or it may be set to cut sections of any desired thickness.

## MS-1200

KNIFE / RAZOR SHARPNER (A.O. SPENCER TYPE)

**WESWOX Automatic Knife Sharpner** will sharpen any **WESWOX** or similar knife upto and including 120mm in length. There is an electrical timing device which is set for desired time, depending upon the condition of knife. The transparent plexi glass cover encloses the entire working mechanism and provides a safe dust and grit free sharpening process. The knife strokes against a high frequency glass honing plate and after three exactly equivalent strokes one side of knife edge, a cum follower automatically flips the knife and three strokes are honed on other side. The stroking cycle is repeated continually for duration of setting on electrical timer.



### Technical Data

Overall Dimensions : 16" x 10" x 11"

Approx. Weight : 22 kg.

The instrument is furnished in epoxy finish.

Packed in a card board box.

### Spare Accessories

- Spare Glass Plate
- Knife Holder
- Coarse Micro abrasive 200ml (Bottle Liquid suspension) set of two bottles.
- Fine Micro abrasive 200ml (Bottle Liquid suspension) set of two bottles.

NOTE : DELIVERY PERIOD FOR THIS ITEM 2 TO 3 MONTHS