

Fully Automated Rotary Microtome with accessories

Technical Specifications

1. A state of the art fully motorized heavy duty automated microtome: Single stroke, continuous stroke, rocking stroke and programmed mode for the sectioning of soft, hard, paraffin and resin embedded blocks.
2. Section thickness range should be between 0.25 to 100 μ m with increments in the range of 0.5 μ m, 1 μ m, 5 μ m with LED display.
3. Trim thickness range should be 1-600 μ m with 1 μ m, 2 μ m, 5 μ m and 10 μ m increments, respectively with LED display.
4. Vertical stroke 70-80mm. Specimen advance 30-35mm.
5. Section counter, knife angle position locator and specimen orientation light facility should be there.
6. Emergency stopping facility and lockable hand wheel should be present.
7. It should have option of foot pedal operation and emergency stop button in automated mode.
8. Automatic object return to starting point and connection for backlighting with cold light source.
9. Directional specimen holder fixture with quick clamping system, standard clamp and universal cassette clamp.
10. Round specimen holder with all accessories.
11. Should have spacious, removable section waste tray with integrated armrest.
12. Universal knife holder base, disposable blade holder, disposable blades, stereo zoom microscope attachment for glass knife sectioning with cold light source using gooseneck. Glass knife maker, Glass knife holder. Glass knife box, high quality glass strips for making glass knife (~30 pcs). Glass knife maker and its accessories should complete the whole system from breaking to making of glass knife ready to use. The vendor should make sure that the glass knife holder of microtome accepts this glass for sectioning. The specimen holder of microtome should be capable of holding resin blocks for sectioning.
13. Instrument should be capable of making semi-thin section of resin embedded sections with the help of glass knife.
14. Instrument should have an operating voltage suitable for Indian plugs.

15. High profile disposable blades pack as well as low profile disposable blade pack, each.
16. Five years of warranty and validation of instrument should be done every six months.
17. One branded vacuum pump; Gast Vacuum/pressure diaphragm pump with gauges, regulators, and relief valve, single head, 1.0 cfm, 220/240 VAC.
18. Desiccator SCHOTT DURAN DN300, Outlet in Lid with Stopcock, flat flanges, NOVUS junction and porcelain plate should be quoted with the system.
19. One UVP make hybridization oven HB-1000 with orbital tray and rocker tray with stacking kit for UVP HB-2000.
20. Standard flat embedding mold made up of silicone at least twenty, with 21 numbered cavities measures: 14mm(L) x 5mm(W) x3mm (D). Should be reusable and must withstand 65°C temperature.
21. Slide warmer hot plate with digital temperature display and control.
22. A vibration free table to accommodate the instrument.
23. Dumont precision tweezers made of titanium, Type 5, six in numbers, (thickness of tip 0.01mm, width of tip 0.05mm and length 110mm), Type 3, six in numbers, (thickness of tip 0.1mm, width of tip 0.17mm and length 120mm).
24. Price of individual components should clearly be specified in the standard and optional format in the quote. The bidder should justify each specification point by point in their order of requirement and should provide the evidence for the same in the technical brochures of the instrument with page number. Photocopied catalogues will not be considered for technical specification evaluation. Quotation not done in the proper form may invite technical rejection and will be technically disqualified.
25. The microtome system has to be quoted with all other accessories, such as stabilizer if required, power chords, 4 extra lamps for stereozoom microscope, since these accessories are required for effective use of this system. Quotation missing any of the above mentioned items or their parts would be disqualified straightway.