

Specifications

- **Mode of operation:** (1) Automatic Arm movement, automatic ultra-thin advance; (2) Automatic Arm movement, manual semi-thin or coarse advance; (3) Manual Arm movement-remote controlled, manual semi-thin or coarse advance.
- **Feed systems:** (1) Thermal Ultra-thin Arm advance, continuously adjustable in <10-200 nm range. Reset signal lamp flashes just before end of linear expansion. Resetting fast by cooling blower. Advance can be reset at any time convenient to operator. (2) Micro Knife Advance continuously adjustable in 100 nm easy-feel click-stops. Range 15 microns. (3) Macro Knife Advance continuously adjustable in 1 micron easy feel click-stops. Range 15mm.
- **Specimen arm drive:** (1) gravity powered: moving coil motor regulates cutting speed; (2) fast return speed: moving coil motor lifts arm.
- **Cutting speeds:** accurately reproducible on clickstop slider control, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 mm/second.
- **Knife adjustments:** (1) Forward approach: by macro advance total 15mm; (2) Lateral adjustment: by self locking screw-total 14mm; (3) Rotation: $\pm 90^\circ$ self locking adjustment $\pm 30^\circ$ scale for pyramid trimming; (4) Clearance Angle: Adjustable between 0-20°, Calibrated in 1° divisions; (5) Height: to fixed position of reference indicator; (6) Knife Holder-accepts any Diamond Knife-accepts glass knives up to 10 mm in width; (7) Retraction of Knife:-Automatic around 60 microns retraction during upward arm movement.
- **Microscope:** Olympus Stereo Zoom SZ 111 magnification adjustable from $\times 10.5$ - $\times 60$ rotatable for comfort and block face observation.
- **Light system:** -Focused Beam prealigned; -for block alignment; -for knife evaluation; -Diffuse Beam preselected Position for approach alignment sectioning Both lights rotatable around cutting point.
- **Microscope stand:** -removable from Ultratome for other laboratory tasks; -carries microscope and dual lighting system.
- **Specimen trimming:** -mechanical using movement of specimen arm; -manual
- **Trough filler:** Coarse filling by plunger; Fine level adjustment on knurled wheel; Syringe and tubing disposable; hook autoclavable when contaminated.
- **Protection against transmitted vibration:** -four absorbent pads under weighted base plate; -control module separate from cutting unit to protect against transmission of operator movements.
- **Specimen holders:** made from special Invar alloy, graduated and index numbered; 1. each type D specimen diameter 5.6mm; 1. each type E specimen diameter 6.3mm; 2. each type G specimen diameter 8.0mm; 2. each type K vice holder for flat embeddings.
- **Specimen orientation head:** made from special Invar alloy; Rotation of specimen holder-3600; Rotation orientation head-3600; Arc adjustable –rack and pinion with finger-tip adjustment of specimen ± 450 .
- **Accessories supplied:** Orientation head specimen holders D, E, G, K +protective caps; Razor blades, Allen Keys 2 mm and 3 mm, curved forceps, grid storage box. 2brushes, Trough filler, Fuses.
- **Electrical data:** Voltages 110,115,120,220,240V $\pm 10\%$; Single phase 50/60 Hz; Power consumption-75VA
- **Dimensions:** Control unit L \times W \times H-31 \times 22 \times 95 cms; Cutting unit L \times W \times H-68 \times 33 \times 53 cms;

Shipping pack L×W ×H-83 ×48×120cms.

- **Weight:** Control unit 5kgs; Cutting unit 85kgs; Total package 125kgs.