

Thermo Scientific HM340E

Combining effortless mechanised advance with manual sectioning, the HM340E semi-automated microtome represents the ideal compromise between manual and mechanised operation. A cost-effective intermediate instrument for laboratories wanting the improvements in efficiency and operator comfort associated with the transition to automation, yet preferring to cut manually.



Precision sections with effortless advance



Operator Choice. The HM340E comes with a detachable control panel, which can be repositioned on the bench. Multi-function knobs controlling sample advance, section thickness and rapid switching between trim and section functions can be configured for left or right handed operation. Light touch flywheel requires minimal force for sectioning manually.

Safe Operation. The instrument can be completely immobilized by application of the mechanical handwheel brake, allowing safe adjustment of the specimen, object head or knifeholder. Blade guard protects the operator's hands from injury whilst cutting.

Flexibility and Efficiency. Motorized advance, memory function and unilaterally positioned XY controls permit rapid set up and re-alignment of the specimen. Selectable retraction enables rapid trimming. Large wraparound waste tray completely surrounds the blade holder making clean up both faster and safer.

Compatible with CoolCut and Section Transfer System with accessories common across the HM range of rotary microtomes.

Section Quality. The long 72mm cutting stroke accommodates vertical sectioning of larger specimens including SuperMega™ cassettes. The cutting force is concentrated on a smaller area reducing chatter to produce homogenous high quality sections.

Parallel guide rails and cross roller bearings preserve stability of the knife holder maintaining sectioning calibration.



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Physical Specification

Dimensions (D x W x H)	520mm x 410 mm x 280mm
Weight	25 kg

Electrical Specification

Power Supply Voltages	100-240 V _{AC}
Frequency	50 / 60 Hz
Power	100 VA

Environmental Specifications

Temperature (operating limits)	+10°C to +40°C
Temperature (recommended)	+15°C to +30°C
Temperature (transit/storage)	-20°C to +50°C
Humidity	Max. 60% RH
Altitude	Up to 2000 m
Pollution Degree	2
Over Voltage Category	II
Sound Pressure	42 dB(A)
Floor Loading	110 kg/m ²

Cutting Specifications

Feed Section Thickness Range	0.5 - 100 µm
Resolution	0.5 µm from 0.5 - 5 µm
	1 µm from 5 - 20 µm
	2 µm from 20 - 30 µm
	5 µm from 30 - 60 µm
	10 µm from 60 - 100 µm
Trimming Thickness Range	5 - 500 µm
Resolution	5 µm from 5 - 30 µm
	10 µm from 30 - 100 µm
	20 µm from 100 - 200 µm
	50 µm from 200 - 500 µm
Specimen Retraction	40 µm
Horizontal Feed Range	28,000 µm
Vertical Specimen Stroke	72 mm
Section Counter	5-digit, with reset
Section Thickness Sum	5-digit, with reset
Remaining Travel	5-digit LC display
Specimen Size	55 x 50 mm (68 x 50mm with macro specimen clamp)
Specimen Orientation	X - and Y - axes universal 8°
Samples Rotation	360°
Cutting Drive	Manual
Coarse Feed	Motorized, graduated and continuous
Speed for Coarse Feed	400, 800 or 1200 µm/s