to make every section count

... the right accessories are essential

All Thermo Scientific microtomes are supplemented by an extensive range of accessories to enable users to maximise their sectioning performance. With high levels of cross compatibility between the various models, laboratories are ensured a cost-effective way of configuring each microtome to meet the increasing demand for quality, throughput and sample turnaround demanded of histologists.

Clamps

A choice of fixed, adjustable, mounting and foil clamps with various adapters to accommodate a wide range of specimen formats and sizes.

Blade Holders

Section thickness, specimen type and cutting style all contribute in selecting the most appropriate blade holder and blade combination for optimum section generation.

Every microtome comes with a number of blade holder options enabling the user to present the correct blade in the optimal position for precise cutting of every specimen.

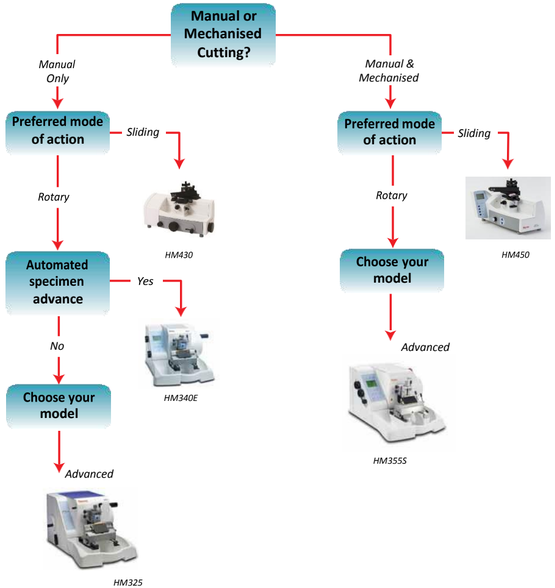
Blades and Knives

Thermo Scientific offers a selection of high and low profile disposable blades which deliver on user requirements for longevity, reliability and ribbon generation across a range of tissue types.

C and D profile stainless steel and tungsten carbide knives provide options for sectioning of resins and foils to a resolution of 0.5µm.

choosing the right microtome for your laboratory

... has just become easier



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Thermo SCIENTIFIC
Part of Thermo Fisher Scientific

Thermo Scientific Microtomes

- Rotary Microtomes
- Sliding Microtomes
- Vibrating Microtomes

perfect sections

... perfectly simple

Thermo SCIENTIFIC

Histological examination continues to be the gold standard for detection, diagnosis and characterisation of many clinical conditions, forming the basis for targeted and appropriate patient care. For this very reason the ability to generate a suitable section is a core skill, fundamental to every pathology laboratory and defining the microtome as an indispensable laboratory instrument.

Comprehensive Range

Because every laboratory has different requirements from a microtome, Thermo Scientific offers an extensive range of models to match the varying needs and preferences of our customers. Encompassing basic, entry level instruments to the highly versatile models which support a multitude of applications and specimens, Thermo Scientific microtomes and accessories can be configured to suit the needs of every user, endorsing Thermo Scientific as the commercial partner of choice for histologists everywhere.

Quality & Performance

The quality of the section generated can have a significant impact on the accuracy and reliability of diagnosis and is dependant both on the expertise of the biomedical scientist and selection of the most appropriate microtome. With 70 years experience in manufacturing laboratory instruments for histological analysis, Thermo Scientific continues to lead the way in technological development delivering advances not only in sectioning quality but safety, ergonomics, efficiency and ease of use.

Safety and Ergonomics

The repetitive nature of microtomy increases the risk of developing musculoskeletal motion disorders, impacting both on the health of the scientific staff and the capability and throughput of the laboratory.

Concern for operator safety and comfort is integral in the design of every microtome, enabling technicians' attention to be focussed on producing a premium section, every time.

Improved Workflow and Efficiency

As demand for higher and faster throughput grows, laboratories need instruments which not only deliver in terms of performance, but also enable laboratory staff to work smarter. Features such as mechanised feed, memory function, simplified XY orientation and wraparound detachable waste trays all contribute in streamlining the sectioning process.

Manual Rotary Microtomes

feel the quality - feel the cut - feel the difference

For microtomists who prefer to “feel” when to section

Thermo Scientific HM 325

A premier manual rotary microtome with additional capability to support rapid set-up and cleaning for improved workflow.

- 64mm vertical stroke can accommodate Super Mega™ Cassettes in horizontal orientation
- Wrap around detachable waste tray for safe and speedy debris collection and disposal
- XY fine orientation and zero positioning for rapid re-orientation of pre-cut blocks
- Ultra-light touch, ergonomic flywheel
- Optional Section Transfer System supports workflow transition from ribbon to slide
- Compatible with Cool Cut to extend cutting periods for efficient step and serial sectioning

LEAN Sectioning

Improve laboratory efficiency at the microtome by transferring sections directly onto slides as they are generated. Combining a Thermo Scientific manual microtome with a simple water bath and SlideMate AS™ slide printer offers a straight forward cost effective means of simultaneously streamlining workflow and reducing the risk of sample identification errors.

Semi-Automated Rotary Microtome

the feel of a manual; the speed of an automatic

Rapid effortless advance for users wanting to cut manually

Thermo Scientific HM340E

A semi-automated rotary microtome combining mechanised feed with manual cutting.

- 72mm vertical stroke for efficient sectioning of macro and Super Mega™ Cassettes
- Memory function for specimen positioning with XY fine orientation and wraparound waste tray to speed up preparation and clean-up
- Ergonomic removable control panel to suit user preferences
- Compatible with Section Transfer System and Cool Cut

Thermo Scientific Cool-Cut

Production of a superior section ≤4µm is determined by the solidity of the paraffin block. The rigidity of the block lessens as it heats up, requiring repeated transfer to ice. Cool Cut is a peltier cooled specimen clamp device which maintains the block at a constant temperature, thus extending cutting periods. As a result, histologists can cut step and serial sections more efficiently, reducing the time needed to section each block and consequently improving laboratory workflow.

Thermo Scientific Section Transfer System (STS)

The process of manually transferring the ribbon to slide via a water bath presents significant potential for loss or damage to occur. The Section Transfer System uses a laminar water flow to transfer the ribbon directly into an adjoining illuminated water bath eliminating this risk. An invaluable tool for specimens which are particularly precious, the Section Transfer System is compatible with all the HM rotary microtomes and can be combined with the Cool Cut to maximise versatility.

Fully Automated Rotary Microtome

maximise user comfort and application flexibility

Effortlessly delivers the controlled, slow and even cutting required for harder specimens

Thermo Scientific HM355S

A fully automated microtome with four mechanised cutting modes to deliver exceptional sections across an extensive range of specimen types.

- 72mm vertical stroke for efficient sectioning of SuperMega™ Cassettes and other large samples
- Choice of manual or mechanised sectioning
- Single, hold, interval and continuous cutting modes for optimum control according to sectioning requirements
- Unique double-tap start ensures only intentional operation
- Compatible with Section Transfer System and Cool Cut for improved workflow
- Programmable cutting window to define the sectioning area for more efficient sectioning
- Memory function for specimen positioning with XY fine orientation and wraparound waste tray to speed up preparation and clean-up
- Ergonomic, removable control panel to suit user preferences
- Emergency Stop, manual and electronic brake

Sliding Microtomes

variable stroke length - variable sample size

Thermo Scientific HM450

An automated sliding microtome with additional capability for cutting large and hard specimens.

- Choice of manual or mechanised operation
- Coaxial specimen orientation and memory function for rapid re-orientation of pre-cut blocks
- User-friendly control panel for easy operation
- Optional retraction to protect specimen

Thermo Scientific HM430

A manually operated microtome suitable for a range of botanical samples in addition to anatomical tissue.

- Variable stroke length to meet specimen requirements
- Accommodates specimens up to 80mm x 60mm
- Choice of manual or automated advance
- Coaxial specimen orientation and memory function for rapid re-orientation of pre-cut blocks