Leica RM2125 and RM2125 RT

Rotary Microtomes

Living up to Life

Leica
MICROSYSTEMS

Functional and Reliable – Great Sectioning Performance

Functionality and reliability are important factors in measuring the quality of rotary microtomes. With this in mind, Leica Microsystems has been designing and manufacturing microtomes which comply with the most modern safety standards for more than 125 years. That is why sophisticated yet robust technology, ergonomic design and exemplary functionality are the essential qualities of the rotary microtome in the Leica RM2125 series. When designing the instrument, Leica consciously decided not to make any changes to the proven basic Leica microtome technology. Indeed, those changes made in comparison to the predecessor model are only for the added benefit of the progressive microtome user. The result is a rotary microtome unencumbered by unnecessary features and equipped with all the functions the customer can expect from an entry-level microtome for clinical histopathology.

The Leica RM2125 contains a reliable precision-spindle micrometer feed combined with a special stable cylinder guide mechanism ensuring low-vibration sectioning and highly reproducible results. Leica Microsystems has made this technology commercially available for applications in microtomy and cryomicrotomy, and is also committed to developing this technology further in order to always provide state-of-the-art solutions for each and every microtome user.

Proven knife holder system

The universal knife holder base is equipped with a lateral displacement feature, so that the full length of the knife edge can be used without having to change the tension setting on the previously clamped knife or blade. A safety guard can be used to cover the knife edge, protecting the operator during work breaks. Leica knife holders E, N* and E-TC* fit this knife holder base.

Flexible specimen handling

The specimen orientation system with reliable anti-tilt function ensures accurate orientation of the specimen surface relative to the knife.
The 60 mm stroke allows sectioning of either cassette- or paraffin block-embedded specimens up to a size of approximately 50 x 50 mm.

Comfortable handrests

The handrests provide comfortable support, especially when working with the microtome for a long time, and can be removed quickly and easily. Leica considers user comfort in every microtome we design.

Stable microtome base plate

The design of the microtome base plate further enhances the stability of the RM2125 and makes it stand out in its class.

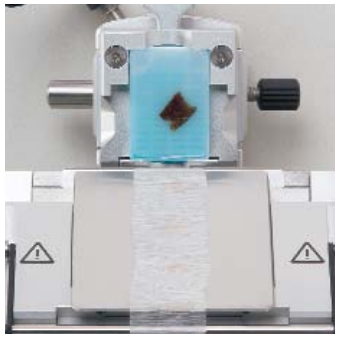
* optional accessories

Safe, ergonomic handwheel

Safety is a number one priority in our microtome design. As a supplement to our traditional locking lever located below the handwheel, the handwheel handle is equipped with a safety quick-lock mechanism. When activated, it immediately locks the handwheel in the upper position. It's a safe, quick and convenient solution. The handle is comfortable to hold and light to turn.

Efficient trimming function

By activating the mechanical trimming function, the specimen advances toward the knife in predefined steps of 10 µm or 50 µm, which provides an efficient method of trimming specimen blocks.



Optional specimen retraction

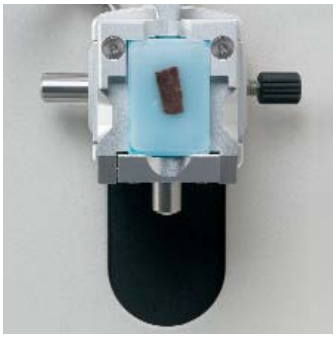
As an option, the new RM2125 is available with specimen retraction, but only in combination with the mechanical trimming feature (RM2125 RT). Specimen retraction prolongs the life of the cutting surface, facilitates consistent sectioning and eliminates the build-up of debris on the back of the knife or blade.

State-of-the-art specimen clamping system

The proven quick-release specimen clamping system allows specimen clamps to be changed quickly and easily.

Optional section waste tray

The generously sized section waste tray provides sufficient space even when many blocks are cut. It is easily integrated and gives the user unobstructed access to the sectioning area for section retrieval. Sectioning debris can be easily brushed into the waste tray.



Easy-to-clean housing

The overall design successfully combines ergonomics, aesthetics, and ease-of-use with functional requirements. The housing design allows easy and comfortable access to controls and quick and easy cleaning at any time. A movable shield prevents sectioning debris from entering the interior of the instrument, thus preventing damage to the precision mechanics.

At a glance: Leica RM2125

- Compact, ergonomic overall design
- Ergonomically optimized handwheel handle
- Ultra-lightweight handwheel with integrated quick-lock mechanism
- Movable shield for internal debris protection
- Black anodized finish on knife holder E
- Reinforced base plate
- Comfortable and easy-to-remove handrests
- Proven mechanical precision feed system
- Section thickness selection from 0.5 µm to 60 µm
- Quick-release specimen clamping system – can be operated with one hand

Leica RM2125 RT

- Mechanical trimming function (10 µm and 50 µm)
- Specimen retraction

A selection dial allows thickness settings from as low as 0.5 µm to a maximum of 60 µm.

Wide range of accessories

An extensive array of knife holders and specimen clamping system accessories make Leica microtomes adaptable to the needs of virtually every routine and special sectioning application.

Fatigue-free trimming

The convenient, closely positioned coarse feed wheel promotes ergonomic and fatigue-free trimming. The instrument can be ordered with coarse feed and sectioning handwheel turning in either the same or opposite direction of rotation.

Leica Design by Werner Hölbl

Leica RM2125 – Technical Specification

Section thickness setting:	0.5 – 60 µm
	from 0 – 2 µm in 0.5 µm steps
	from 2 – 10 µm in 1 µm steps
	from 10 – 20 µm in 2 µm steps
	from 20 – 60 µm in 5 µm steps
Section thickness indication:	visual display
Coarse feed:	manual, via coarse feed wheel
Horizontal specimen feed:	approx. 28 mm
Vertical specimen stroke length:	60 mm (+/– 1 mm)
Specimen orientation (x/y):	8°
Dimensions (L x H x W):	470 x 400 x 295 mm
Weight (net, w/o accessories):	29 kg

Leica RM2125 RT – Technical Specification

Section thickness setting:	0.5 – 60 µm
	from 0 – 2 µm in 0.5 µm steps
	from 2 – 10 µm in 1 µm steps
	from 10 – 20 µm in 2 µm steps
	from 20 – 60 µm in 5 µm steps
Section thickness indication:	visual display
Coarse feed:	manual, via coarse feed wheel
Horizontal specimen feed:	approx. 28 mm
Vertical specimen stroke length:	60 mm (+/– 1 mm)
Specimen orientation (x/y):	8°
Trimming thickness selections:	10 and 50 µm
Specimen retraction:	220 µm
Dimensions (L x H x W):	470 x 400 x 295 mm
Weight (net, w/o accessories):	29 kg

State-of-the-art R&D, manufacturing and quality assurance procedures – registered under DIN EN ISO 9001 – ensure highest quality and reliability.

Wide range of accessories available on request.
Technical specifications subject to change without prior notice.

“With the user, for the user”
Leica Microsystems

Leica Microsystems operates globally in four divisions, where we rank with the market leaders.

• Life Science Division

The Leica Microsystems Life Science Division supports the imaging needs of the scientific community with advanced innovation and technical expertise for the visualization, measurement, and analysis of microstructures. Our strong focus on understanding scientific applications puts Leica Microsystems’ customers at the leading edge of science.

• Industry Division

The Leica Microsystems Industry Division’s focus is to support customers’ pursuit of the highest quality end result. Leica Microsystems provide the best and most innovative imaging systems to see, measure, and analyze the microstructures in routine and research industrial applications, materials science, quality control, forensic science inves tigation, and educational applications.

• Biosystems Division

The Leica Microsystems Biosystems Division brings histopathology labs and researchers the highest-quality, most comprehensive product range. From patient to pathologist, the range includes the ideal product for each histology step and high-productivity workflow solutions for the entire lab. With complete histology systems featuring innovative automation and Novocastra™ reagents, Leica Microsystems creates better patient care through rapid turnaround, diagnostic confidence, and close customer collaboration.

• Surgical Division

The Leica Microsystems Surgical Division’s focus is to partner with and support surgeons and their care of patients with the highest-quality, most innovative surgical microscope technology today and into the future.

The statement by Ernst Leitz in 1907, “with the user, for the user,” describes the fruitful collaboration with end users and driving force of innovation at Leica Microsystems. We have developed five brand values to live up to this tradition: Pioneering, High-end Quality, Team Spirit, Dedication to Science, and Continuous Improvement. For us, living up to these values means: **Living up to Life**.

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