Leica RM2235
The Manual Rotary Microtome
For Outstanding Durability, Precision, and Comfort
As Durable as Ever, Enhanced Precision and Comfort Like Never Before: The Leica RM2235 Rotary Microtome

The Leica RM2235 manual microtome provides unique user-friendliness, achieved through numerous features, most of them patented, which have never before been offered in this class of microtome. The Leica RM2235 rotary microtome combines proven technology with well thought-out ergonomic details and the highest safety standards. Working in comfort is not a luxury but a necessity. A relaxed, ergonomic working posture is a basic prerequisite for the high levels of speed, precision, and efficiency required in modern laboratories. Day after day, the Leica RM2235 rotary microtome provides comfortable functionality without compromise. The Leica RM2235 rotary microtome is the instrument of choice for all clinical histology and histopathology institutions where manual microtomes are preferred over motorized units.
Precise and Economical: Manual Sectioning

Ergonomics and user safety

The smooth-running safety handwheel has an ergonomically shaped handle. A handwheel locking device for one-thumb operation locks the specimen head in the uppermost position, which is ideal for changing the specimen and/or blade. A second locking mechanism on the microtome base allows the object head to be locked in any position.

Fatigue-free operation

Ergonomics and user comfort were prime considerations for the location of the coarse feed wheel, which is positioned close to the operator. The direction of the handwheel rotation to best suit your sectioning style can be specified at the time an order is placed. The mechanical trimming function, conveniently placed next to the coarse feed wheel, eliminates the need to turn the coarse feed wheel during trimming.

Safety during sectioning

Safety is ensured by the integrated, red finger protection guard of the knife holder E that uniquely shields the blade edge. When used correctly the integrated finger protection guard can reduce potential injuries.

Spacious, magnetized section waste tray

The spacious section waste tray reliably collects sectioning debris. It is safely held in position by magnets, yet is easily removable for emptying and cleaning.

The patented force balancing system

The Leica RM2235 rotary microtome handwheel runs exceptionally smooth because it has no balancing weight. Instead, the patented force balancing system uses a spring to compensate the forces generated during sectioning. The result: effortless operation and uniform handwheel rotation – producing much better sectioning results.

Convenient storage area

An integrated storage tray ensures that ancillary tools are on hand at all times. Alternatively a cooling plate with thermo element can be used for cold storage of specimen blocks either on top or on either side of the microtome.

Leica Biosystems-patented: Spring-based force balancing system

Conventional: Handwheel with balancing weight
Well thought-out and proven:

- Knife holder base: universal knife holder base fits virtually all Leica Biosystems knife holder systems.
- Optimized microtome base plate: provides maximum rigidity
- One-piece housing: made from specially resistant plastic, without any edges where debris could accumulate, which reduces cleaning to a minimum.
- Fewer clamping levers: makes the Leica RM2235 rotary microtome easier to use by providing improved access to the cutting area.

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Fast sectioning without specimen orientation

For applications where specimen orientation is not needed, a non-orienting fixture for specimen clamps is available as an optional accessory. The Super Mega cassette can clamp specimens up to a size of 46 x 66 x 10 mm (W x H x D).

Precision specimen orientation with clear zero reference point

The orientation mechanism sets standards of precision and is very easy to operate. Calibrated controls make it easy to adjust a specimen to an exact zero position indicated by red pins or a measurable variable on the X/Y axis for re-cuts.

Lateral knife holder adjustment

The entire width of the microtome blade can be used without having to release the blade clamping mechanism. Using the entire knife edge is cost effective, especially in laboratories with high specimen throughput. Three predefined stop positions (left, center, right) correspond to the width of a standard histology cassette.
TECHNICAL SPECIFICATIONS

Section thickness
Setting range 1 – 60 µm
Setting values 1 – 10 µm in 1 µm increments
10 – 20 µm in 2 µm increments
20 – 60 µm in 5 µm increments

Section thickness indication viewing window
Coarse feed manual via coarse feed wheel
Trim settings 10, 30 µm
Total horizontal specimen feed 24 mm ± 2 mm
Vertical stroke 70 mm
Specimen retraction approx. 40 µm, can be deactivated

Maximum specimen size (W x H x D) 50 x 60 x 40 mm
Specimen orientation horizontal: ±8°
vertical: ±8°

Dimensions
Width (including handwheel) 413 mm (16.26 in.)
Depth (including section waste tray) 618 mm (24.33 in.)
Height (with storage tray installed on housing) 305 mm (12.01 in.)
Weight (without accessories): approx. 29 kg, 64 lbs

The Leica RM2235 rotary microtome features at a glance

- Precision specimen orientation with zero point reference
- Compact, ergonomic overall design
- User safety integrated into all aspects of the instrument
- Ergonomically located coarse feed wheel for fatigue-free operation
- Extremely smooth-running handwheel due to patented force compensation system
- Precise knife holder lateral adjustment ensures that the entire width of the blade edge can be used
- Cooling plate (optional)
- Two safety locking mechanisms for the handwheel
- Universal knife holder base for different knife holders
- Disposable blade holder with integrated safety finger protection guard
- Spacious magnetized section waste tray
- One-piece, easy-to-clean housing

A wide range of accessories is available upon request.
Technical specifications are subject to change without notice.
Consistant sharpness and durability for quality sections

To help you cut the best possible sections, Leica Biosystems has a broad range of blades and knives for microtomes and cryostats. This range consists of both high and low profile disposable microtome blades to provide precision cutting for all tissue types, including difficult tissue types such as uterus.

Whether for dense or soft tissue, frozen or routine sectioning, biopsies or large tissue samples, Leica Biosystems has a range of blades to meet your sectioning needs.
TOTAL PARAFFIN SECTIONING SOLUTIONS

Surgipath Microtome Blades
Achieve quality sections from our broad range of finely-engineered microtome blades.

Surgipath Slides
With many color and adhesive options you’re sure to find the ideal slide for your application.

Leica HI1210 Water Bath for Paraffin Sections
A flattening bath for paraffin sections and a water bath maintaining specimens and solutions at required temperatures for IHC applications.

Leica HI1220 Flattening Table for Paraffin Sections
A flattening table with a large jet black aluminum work surface to provide high thermal conductivity rates and outstanding resistance to mechanical manipulations.

LEICA BIOSYSTEMS
Leica Biosystems (LeicaBiosystems.com) is a global leader in workflow solutions and automation, integrating each step in the workflow. As the only company to own the workflow from biopsy to diagnosis, we are uniquely positioned to break down the barriers between each of these steps. Our mission of “Advancing Cancer Diagnostics, Improving Lives” is at the heart of our corporate culture. Our easy-to-use and consistently reliable offerings help improve workflow efficiency and diagnostic confidence. The company is represented in over 100 countries and is headquartered in Nussloch, Germany.

Leica Biosystems – an international company with a strong network of worldwide customer service.