



# Leica RM2265

The Fully Motorized,  
Programmable Rotary Microtome

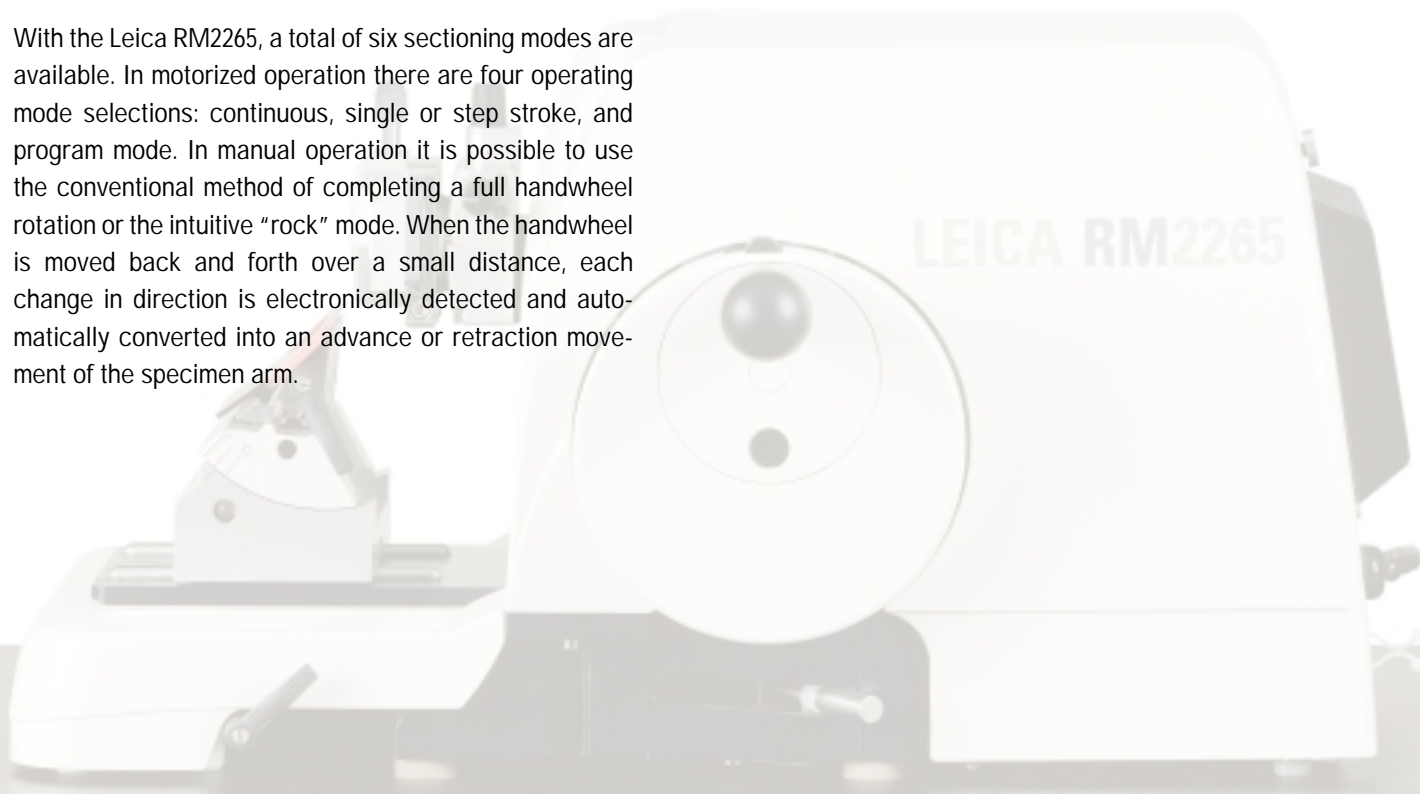
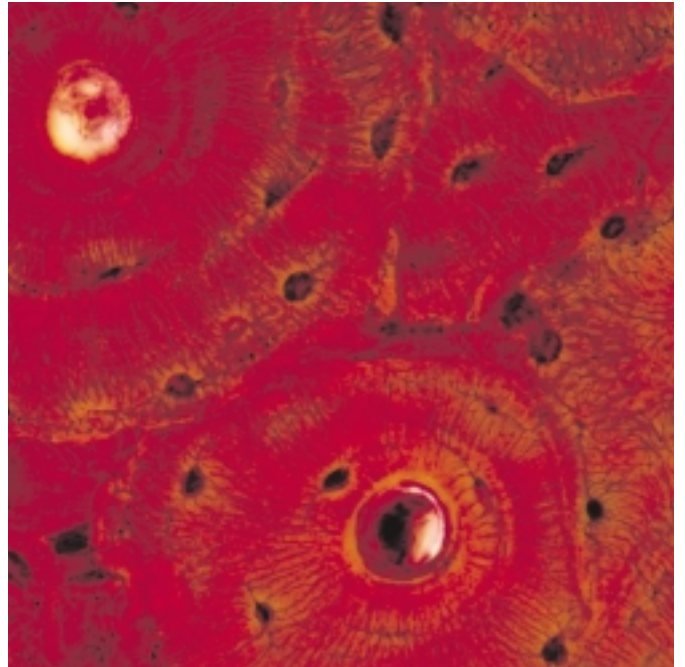
*Leica*  
MICROSYSTEMS

# Efficiency Without Compromise: The New Leica RM2265

When it comes to selecting a microtome, many factors have to be taken into consideration and it's hard to decide which factor is the most important: reliability, innovative technology, ergonomics or safety. Leica believes that each of these aspects is equally essential for the most crucial requirement a modern microtome has to meet: Efficiency.

Leica Microsystems offers a microtome that can satisfy all of your laboratory's requirements: the fully motorized Leica RM2265 rotary microtome. It is the top-of-the-line product in the Leica RM2200 rotary microtome series and is designed to produce superior sections of a multitude of specimen types with ease. Its outstanding technology allows it to be used for semi-thin to thick sectioning of soft or hard specimens; routine as well as special biomedical research applications; and industrial quality assurance and materials research applications. Whether your instrument requirements are dedicated to a single discipline or demand the versatility to perform in multiple disciplines, the Leica RM2265 provides the perfect solution for achieving constant, high-performance workflow in your laboratory. And instead of compromising one advantage for another, the Leica RM2265 allows you to benefit from all of the latest state-of-the-art-technology in modern microtomy.

With the Leica RM2265, a total of six sectioning modes are available. In motorized operation there are four operating mode selections: continuous, single or step stroke, and program mode. In manual operation it is possible to use the conventional method of completing a full handwheel rotation or the intuitive "rock" mode. When the handwheel is moved back and forth over a small distance, each change in direction is electronically detected and automatically converted into an advance or retraction movement of the specimen arm.



# A Sophisticated Approach to Efficiency

## ■ Utmost versatility for many special requirements

A wide choice of optional accessories includes a microscope carrier with two fiber optic light guides for the optimal illumination of the knife and specimen.

## ■ Easy to clean

Due to the rounded shape of the Leica RM2265's one-piece housing, section waste is easily removed. The integrated slot covers prevent debris from entering the mechanisms of the micro-

## ■ Unobstructed work area

To provide improved access to the cutting area, hidden clamping mechanisms have replaced several clamping levers that are not routinely used, without compromising the standard setting options.

## ■ Control panel operation

The automated functions of the microtome are controlled via a separate, compact control panel. Controls for specific functions are grouped together and the most used areas contain contrasting colors and touch-sensitive buttons that allow 'blind operation'. Panel inclination is adjustable, and the panel can be positioned either on the left or right side of the instrument.



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### ■ 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 arm in the uppermost position, which is ideal for changing the specimen and/or blade. A second locking mechanism on the microtome base allows locking the object head in any position. During motorized sectioning, activation of the emergency stop button located on the instrument will immediately halt the movement of the specimen arm.



### ■ Precise specimen orientation with clear zero reference point

This novel orientation mechanism sets new standards of precision. Guided by visual indicators, the adjustment of calibrated controls makes it easy to orient a specimen to an exact zero position or to a measurable variable on the x/y axis.

### ■ Universal knife holder base

The knife holder base is suitable for holding various disposable blade or reusable knife holders, making it possible to section a variety of specimen types.

### ■ Leica LN22 freezing device

The low temperature sectioning system has been specifically designed for use with the Leica RM2265 microtome. Even the most demanding specimen can be precisely sectioned in a thickness range from 0.25  $\mu\text{m}$  to 100  $\mu\text{m}$  at temperatures down to  $-150\text{ }^{\circ}\text{C}$ .



### ■ Stability

The optimized microtome base plate provides maximum rigidity and stability.

### ■ Magnetized section waste tray

The section waste tray is safely held in position by magnets, yet is easily removable for emptying and cleaning. If needed, a larger waste tray is optionally available for applications with a high amount of sectioning debris.

## Well thought-out and proven

- **Leica-Patented Force Compensation System** provides extremely smooth manual handwheel operation.

- **Precision Micrometer Feed System** provides semi-thin to thick sectioning via stepper motor from 0.25  $\mu\text{m}$  to 100  $\mu\text{m}$  in sectioning mode and 1  $\mu\text{m}$  – 600  $\mu\text{m}$  in trimming mode.

- **Integrated, Intuitive Display** conveniently displays instrument settings and performance information at eye level.

- **Wide Range of Accessories** tailors the Leica RM2265 to meet individual needs and optimizes the sectioning performance of any specimen, e.g., a wide assortment of holders for any type of knife or disposable blade and specimens of every shape; stereo-microscope carrier; widefield magnifier; or Leica LN22 liquid nitrogen freezing device.

# Leica RM2265 – Technical specifications

## Section thickness:

- Section thickness setting range: 0.25  $\mu\text{m}$  – 100  $\mu\text{m}$
- Setting values: 0.25  $\mu\text{m}$   
from 0.5 – 5.0  $\mu\text{m}$  in 0.5  $\mu\text{m}$  increments  
from 5 – 20  $\mu\text{m}$  in 1  $\mu\text{m}$  increments  
from 20 – 60  $\mu\text{m}$  in 5  $\mu\text{m}$  increments  
from 60 – 100  $\mu\text{m}$  in 10  $\mu\text{m}$  increments
- Trimming section thickness setting range: 1 – 600  $\mu\text{m}$
- Setting values: from 1 – 10  $\mu\text{m}$  in 1  $\mu\text{m}$  increments  
from 10 – 20  $\mu\text{m}$  in 2  $\mu\text{m}$  increments  
from 20 – 50  $\mu\text{m}$  in 5  $\mu\text{m}$  increments  
from 50 – 100  $\mu\text{m}$  in 10  $\mu\text{m}$  increments  
from 100 – 600  $\mu\text{m}$  in 50  $\mu\text{m}$  increments

## Specimen retraction:

- Manual Operation: programmable from 5 – 100  $\mu\text{m}$  in 5  $\mu\text{m}$  increments; can be turned off
- Motorized Operation: varying with the sectioning speed; can be turned off

**Electronic coarse feed:** 300  $\mu\text{m}/\text{s}$  or 900  $\mu\text{m}/\text{s}$

**Sectioning speed range:** 0.5 – 420 mm/s

**Horizontal specimen feed:** approx. 30 mm

**Vertical specimen stroke:** 70 mm

**Sectioning modes:**

6 total  
2 manual modes (regular and rocking mode)  
4 motorized modes (continuous, single or step stroke, and program mode)

**Maximum specimen size (L x H x W):**

50 x 60 x 40 mm (1.96 x 2.36 x 1.57 in.)

**Specimen orientation:**

horizontal: 8°, vertical: 8°

**Power draw max:**

340 VA

• Nominal supply voltages:

100 V / 120 V / 230 V / 240 V

• Nominal frequency:

50/60 Hz

**Dimensions basic instrument**

• (L x W x H):

563 x 413 x 305 mm (22.16 x 16.25 x 12 in.)  
(without magnifier or microscope carrier)

• Weight (without accessories)

approx. 37 kg (approx. 81 lbs)

**Dimensions control panel**

• (W x D x H):

121 x 166 x 50 mm (4.76 x 6.53 x 1.96 in.)

• Weight:

approx. 0.68 kg (approx. 1.45 lbs)

Wide range of accessories on request. Technical specification subject to change.

Certificates: CE, c-CSA-us

Up-to-date development, production, and quality control procedures certified under DIN EN ISO 9001 to ensure the highest quality and reliability.

## The Leica RM2265 features at a glance:

- Compact, ergonomic overall design
- User safety integrated into the microtome and accessories
- Intuitive control panel
- Automatic, variable specimen retraction, depending on sectioning speed
- Two motorized forward and backward specimen coarse feed speeds
- Two separate programs for trimming and sectioning mode
- Speed control through the cutting window for enhanced efficiency
- Programmable vertical object head stop position, especially ideal for the LN22
- Communication display integrated in instrument housing
- Section thickness setting of 0.25  $\mu\text{m}$  to 100  $\mu\text{m}$
- Section thickness totalizer and section counter
- Smooth-running handwheel with integrated quick-lock mechanism
- Ergonomically optimized handwheel handle
- Low-maintenance cross roller bearings
- Enclosed micrometer mechanism
- Precision specimen orientation with zero point reference
- Magnetized section waste tray
- Wide range of accessories for special applications





# Leica Microsystems – the brand for outstanding products

Leica Microsystems' mission is to be the world's first-choice provider of innovative solutions to our customers' needs for vision, measurement, lithography and analysis of microstructures.

Leica, the leading brand for microscopes and scientific instruments, developed from five brand names, all with a long tradition: Wild, Leitz, Reichert, Jung and Cambridge Instruments. Yet Leica symbolizes innovation as well as tradition.

The companies of the Leica Microsystems Group operate internationally in four business segments, where we rank with the market leaders.

## ● Microscopy Systems

Our expertise in microscopy is the basis for all our solutions for visualization, measurement and analysis of microstructures in life sciences and industry. With confocal laser technology and image analysis systems, we provide three-dimensional viewing facilities and offer new solutions for cytogenetics, pathology and materials sciences.

## ● Specimen Preparation

We provide comprehensive systems and services for clinical histo- and cytopathology applications, biomedical research and industrial quality assurance. Our product range includes instruments, systems and consumables for tissue infiltration and embedding, microtomes and cryostats as well as automated stainers and coverslippers.

## ● Medical Equipment

Innovative technologies in our surgical microscopes offer new therapeutic approaches in microsurgery.


## ● Semiconductor Equipment

Our automated, leading-edge measurement and inspection systems and our E-beam lithography systems make us the first choice supplier for semiconductor manufacturers all over the world.

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