Advancing Cancer Diagnostics
Improving Lives

Leica
BIOSYSTEMS

Leica RM2255

Rotary Microtome for High-Performance
Motorized and Manual Sectioning

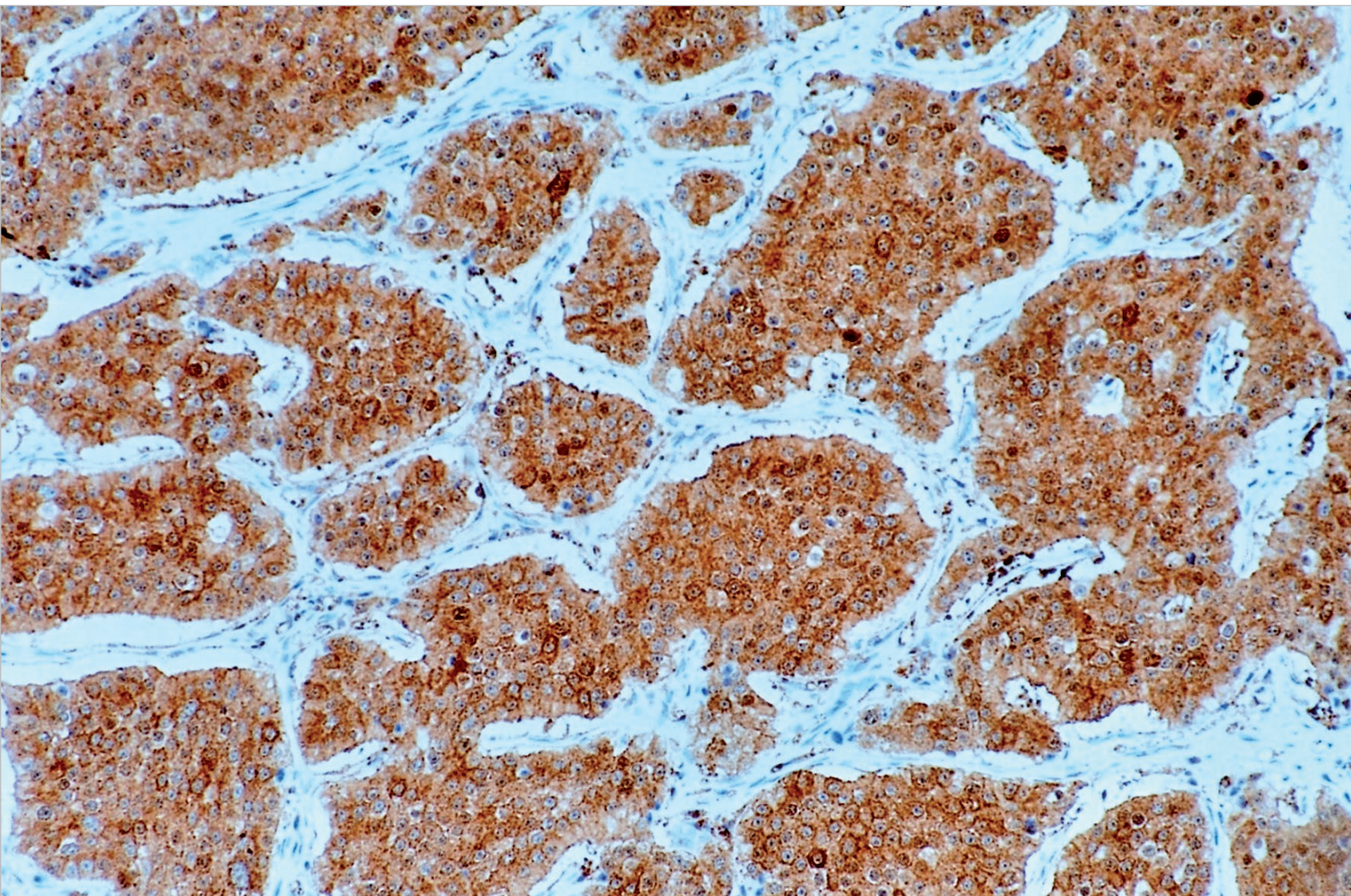
The Leica RM2255 Rotary Microtome

High-performance is an important factor when considering the quality of rotary microtomes. A modern microtome must also offer safety, ergonomy, efficiency, and economy. With this in mind, Leica Biosystems designs and manufactures microtomes that set new standards in today's laboratory.

The fully automated Leica RM2255 microtome embodies the latest technological innovations in microtomy and perfectly harmonizes practical features with an ergonomic design and user safety. Its two-in-one design concept, which allows motorized as well as manual sectioning, provides reproducible, quality sections.

The Leica RM2255 rotary microtome is a blend of proven high-performance, precision microtome technology with all the added benefits customers expect from the market leader in microtomy.
The attention to detail in this microtome, part of the Leica RM2200 family of quality microtomes, represents another step in the advancement of innovative, user-oriented microtomes.


Leica



High-Performance Motorized and Manual Sectioning Sets Standards!

Control panel

The panel has colored, raised keys and allows 'touch' control so all of the operator's attention can be fully focused on sectioning and section retrieval. The panel has adjustable inclination, a very small footprint, and can be positioned to the left or right of the instrument.

Knife holder E

Our most popular knife holder is available in 2 versions for either high or low profile disposable blades. For enhanced safety, an integrated finger guard covers the entire blade.

Fewer clamping levers

They permit unencumbered access to the cutting area. The levers can be repositioned after locking to further clear the work area.

Leica RM CoolClamp – Cool down and continuously cut uniform sections

The Leica RM CoolClamp mounts easily to any Leica RM2200 series microtome and maintains blocks temperature at 20 °C below ambient. With each block held at the ideal temperature, you'll find it a breeze to cut high-quality sections for routine, special and IHC/ISH staining.

One-piece housing

Combine ergonomics, aesthetics and ease-of-use while meeting the practical requirements of the lab. The one-piece housing, made from specially resistant plastic, allows comfortable access to controls and fast and easy cleaning.

Safe, smooth-running handwheel

The handwheel features an ergonomic handle, a traditional lock that locks anywhere in the rotation, and an easy access, quick-lock device to lock the specimen in the uppermost position. For motorized sectioning, the handwheel handle can be centered. Safety is Leica Biosystems' number one priority.

Stable microtome base plate

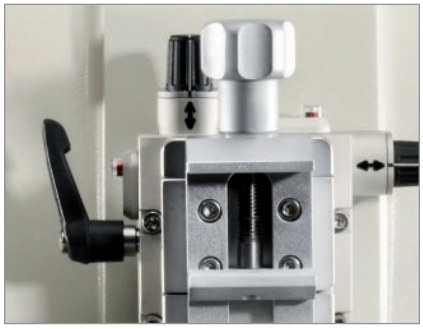
The base plate was designed using the latest technology and materials to produce a robust, stable, yet lightweight support for the precision microtome mechanisms.

Spacious, integrated section waste tray

Conveniently prevent scattering of paraffin debris. The section waste tray is securely held in position by magnets, but is easy to remove from the instrument for emptying and cleaning.

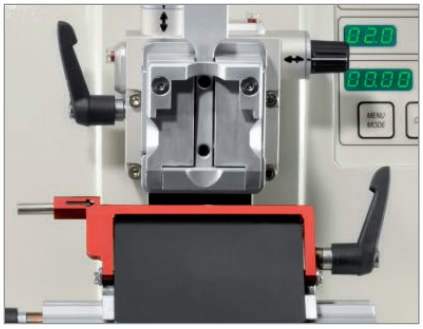
Proven Technology

- **The patented gravitational force compensation system by Leica Biosystems** makes rotating the handwheel extremely smooth and light, which is especially beneficial during manual sectioning applications.
- **Precise micrometer feed system** permits precision sectioning from 0.5 µm to 100 µm via the use of a stepper motor and low-maintenance, cross-roller bearings.
- **Powerful sectioning motor** is rugged enough for sectioning most hard specimens without producing sectioning artifacts.
- **Specially designed electronics system** allows flexible operation of the instrument while providing precision control over the specimen advance and cutting speeds.
- **Universal knife holder base** is compatible with all routine Leica RM2200 series microtome knife holder systems that require a base.



Precise specimen orientation

A high standard of precision in rotary microtomes: With the use of calibrated controls and visual aids, it is simple to adjust the specimen to an exact zero point or in measurable variables of up to ±8° along the X/Y axis.



Lateral knife holder adjustment

Use the entire length of the blade without having to change the tension setting. Three predefined stop positions (left, center, right) that correspond to the width of a standard histology cassette may be used if desired.

Cool storage of specimen blocks

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.*

* not supplied with basic instrument

TECHNICAL SPECIFICATIONS

Section thickness	
Setting thickness setting range	0.5 – 100 µm
Setting values	from 0.5 – 5 µm in 0.5 µm increments
	from 5 – 20 µm in 1 µm increments
	from 20 – 60 µm in 5 µm increments
	from 60 – 100 µm in 10 µm increments
Trimming section thickness setting range	1 – 600 µm
Setting values	from 1 – 10 µm in 1 µm increments
	from 10 – 20 µm in 2 µm increments
	from 20 – 50 µm in 5 µm increments
	from 50 – 100 µm in 10 µm increments
	from 100 – 600 µm in 50 µm increments
Object feed	24 mm ± 1 mm, feed motion via step motor
Vertical specimen stroke	70 mm
Sectioning modes	4
Specimen retraction	
in manual operation	5 – 100 µm in 5 µm increments, can be turned off
in motorized operation	varying with the sectioning speed, can be turned of

Electric coarse feed	300 µm/s and 800 µm/s
Sectioning speed	0.5 – 420 mm/s ± 10%
Maximum specimen size (L x H x W)	50 x 60 x 40 mm
Specimen orientation	horizontal: ±8°, vertical: ±8°
Nominal supply voltages	100/120/230/240 V AC ± 10%
Nominal frequency	50/60 Hz
Power draw	340 VA
Dimensions basic instrument	
Width (incl. handwheel)	413 mm
Depth (incl. waste tray)	618 mm
Height (with storage area on cover)	305 mm
Weight (without accessories):	approx. 37 kg, approx. 81 lbs
Dimensions control panel	
W x D x H	121 x 166 x 50 mm
Weight	approx. 0.66 kg, approx. 1.45 lbs

A wide range of accessories is available upon request.
Technical specifications are subject to change without notice.
Certifications: CE, c-CSA-us

The Leica RM2255 Rotary Microtome Features at a Glance

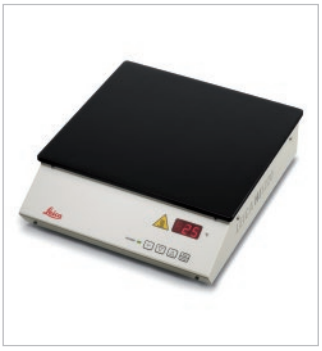
- Compact, ergonomic design
- Ergonomically designed handwheel handle
- Smooth-running handwheel with integrated quick-lock mechanism for safety
- Enclosed micrometer feed mechanism
- Low-maintenance cross-roller bearings

- Two forward and backward coarse feed speeds
- Alternate trimming and sectioning modes, as indicated on the display
- Speed control through the cutting window for enhanced efficiency
- Automatic, variable specimen retraction, depending on sectioning speed
- Section thickness totalizer and section counter
- Intuitive control panel
- Integrated communication display
- Precise specimen orientation with zero point reference
- Knife holder design with red colored knife guard
- Precise lateral knife holder adjustment with click stop settings
- Spacious and easy-to-clean section waste tray
- Wide range of accessories

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.

North America Sales and Customer Support	
North America	+1 844 LEICA NA (844 534 2262)
Asia/Pacific Sales and Customer Support	
Australia	1800 625 286
China	+85 2 2564 6699
Japan	+81 03 6758 5690
South Korea	+82 2 3416 4500
New Zealand	0800 400 589
Singapore	+65 6550 5999
Latin America Sales and Customer Support	
Brazil	+55 11 2764 2411
Europe Sales and Customer Support	

For detailed contact information about European sales offices or distributors, please visit our website: LeicaBiosystems.com

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