Leica SM2000 R

Sliding microtome with maintenance-free cross roller bearing slideways

Living up to Life
The Leica SM2000 R sliding microtome was developed for sectioning tissue samples embedded in paraffin. Maintenance-free horizontal cross roller bearing slideways makes the sledge movement extremely smooth, and ensures fatigue-free operation. The design concept focuses on user friendliness; for example, the inclined surfaces of the housing optimize the sequence of movements and make sectioning easy.

The Leica SM2000 R’s height adjustable feet equalize uneven work surfaces and can slightly incline the microtome to suit the resting position of the sledge to the user’s requirements.

A sliding microtome for easy and convenient sectioning

**Utmost flexibility**

The microtome, with quick release specimen clamping system, can be equipped with Supermega universal cassette clamp or standard clamp for paraffin blocks. Precise fine orientation allows samples to be accurately aligned with the knife. For critical samples, which usually require reduced cutting force, the knife can be positioned at an angle. An easy-to-clean section waste tray is available as an optional accessory.

**Easy-to-use knife holder**

The knife holder is designed to accommodate both standard knives and disposable blades. A magnet on the back ensures safe and easy knife installation, and an integrated knife guard is provided for enhanced safety. The knife or disposable blade holder can be fixed in the holder with minimal time and effort. The line clamping principle ensures the greatest stability and optimum sectioning results. The clearance angle can be adjusted while the knife remains clamped.
Innovative technology makes your work easier and safer

The Leica SM2000 R has automatic specimen advance that can be adjusted to the size of the sample. This feature is the basis for efficient and rapid sectioning. Operator safety is enhanced by fixing the sledge in the sectioning area before section removal using magnetic force or by positively locking the sledge in any position during section removal. A flexible cover protects the cross roller bearings from section debris.

Equipped to suit individual working techniques

The Leica SM2000 R sliding microtome has both automatic (up to 30 µm) and manual specimen feed via the coarse feed wheel to accommodate different individual needs.

Variable knife holder position

Four different knife holder positions provide the flexibility to section a variety of specimen sizes and types by altering the inclination angle of the knife.

For chilling fixed specimens (e.g., brain) during sectioning, the insulated ice tray can be filled with dry ice.
Leica SM2000 R – Technical specifications

Maximum specimen size with cassette clamp: 35 x 22 mm
Maximum specimen size with universal cassette clamp: 80 x 60 mm
Overall feed: 40 mm
Clearance angle adjustment: -4° to 14°
Dimensions (w x h x d): 300 x 330 x 440 mm
Weight: 25 kg

Section thickness setting:
- from 0.5 - 2 µm in 0.5 µm increments
- from 2 - 10 µm in 1 µm increments
- from 10 - 20 µm in 2 µm increments
- from 20 - 60 µm in 5 µm increments
Automatic specimen feed: up to 30 µm

Technical specifications subject to change. Information on a wide range of accessories is available upon request.

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

Leica laboratory instruments for the paraffin sectioning technique

Leica Microsystems develops overall solutions for tissue sample processing and microscopic evaluation for routine and research laboratories. Examples:

Active worldwide

Australia: North Ryde
Tel. +61 2 8870 3500
Fax +61 2 9878 1055

Austria: Vienna
Tel. +43 1 408 00 0 5

Belgium: Great Beguinage
Tel. +32 2 706 86 90

Canada: Richmond Hill/Ontario
Tel. +1 905 762 0000

Denmark: Herlev
Tel. +45 454 01 01

France: Rue des Malmaisons
Tel. +33 1 47 22 91 39

Germany: Weinstadt
Tel. +49 71 61 41 24 40 00

Italy: Milan
Tel. +39 02 514 86 01

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Tel. +81 3 5421 2800

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Tel. +82 2 514 85 42

Netherlands: Rijswijk
Tel. +31 70 4132 100

People’s Rep. of China: Hong Kong
Tel. +852 2594 8080

Portugal: Lisboa
Tel. +351 1 300 9112

Singapore: Singapore
Tel. +65 6733 0838

Spain: Barcelona
Tel. +34 93 494 95 30

Sweden: Kista
Tel. +46 8 625 45 45

Switzerland: Herisau
Tel. +41 71 726 34 34

United Kingdom: Milton Keynes
Tel. +44 1908 246 246

USA: Bannockburn/Illinois
Tel. +1 847 405 0123

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