

## Leica RM2255 basic instr.



Leica RM2255-- Fully Motorized Rotary Microtome

050237960

Leica RM2255 - Basic instrument  
without specimen orientation  
100-240 V/50-60 Hz

The Leica RM2255 is a fully motorized rotary microtome equipped with a smooth-running handwheel. The RM2255 is primarily designed for motorized sectioning, but is also suitable for manual sectioning applications.

The RM2255 allows the sectioning of samples in four different sectioning modes: single stroke, continuous stroke, step mode and rocking mode. The sectioning speed can be adjusted while motorized sectioning in progress. The Leica RM2255 features a low-maintenance precision micrometer feed system with specimen feed and vertical stroke via precision cross roller bearings.

All important controls are located on a user-friendly separate control panel with adjustable inclination angle for ergonomic operation. Important information on the operating state of the instrument such as specimen retraction (Retract) emergency stop (E-stop), handwheel/specimen head locking function (Lock), trimming thickness, section thickness as well as section section thickness totalizer are indicated directly on the instrument.

For increased user safety, the instrument is equipped with two independent handwheel locking systems. During motorized operation, the handle of the ergonomic safety handwheel can be centered.

The instrument is equipped with an individually adjustable specimen retraction system, which can be switched on and off by the user.

In manual sectioning mode, specimen retraction values are programmable.

In motorized sectioning mode, specimen retraction is self-adjusting (retraction value depending on actual sectioning speed).

Retraction status (ON/OFF) indication via LED.

Motorized horizontal specimen head movement with two speed settings (300  $\mu\text{m/s}$  or 900  $\mu\text{m/s}$ ).

Coarse feed speed and direction can be activated at any time by simply pressing a button.

Raised coarse feed buttons can easily be felt without having to look at the control panel.

During sectioning, visual/acoustic signals indicate the front and rear travel limits. Optical and acoustical remaining feed indicator for the horizontal specimen feed.

Section thickness settings for trimming and sectioning can be selected and saved independently of each other.

The microtome base plate features an integrated ruler, to ensure that specific knife holder base positions can easily be found again.

Sectioning debris is collected in a large-volume section waste tray.

Technical specifications:

Trimming thickness range and increments: 1-600  $\mu\text{m}$

1-10  $\mu\text{m}$  in 1- $\mu\text{m}$  increments

10-20  $\mu\text{m}$  in 2- $\mu\text{m}$  increments

20-50  $\mu\text{m}$  in 5- $\mu\text{m}$  increments

50-100  $\mu\text{m}$  in 10- $\mu\text{m}$  increments

100-600  $\mu\text{m}$  in 50- $\mu\text{m}$  increments

Section thickness range: 0.5 - 100  $\mu\text{m}$

Section thickness increments:

0.5-5  $\mu\text{m}$  in 0.5- $\mu\text{m}$  increments

5-20  $\mu\text{m}$  in 1- $\mu\text{m}$  increments

20-60  $\mu\text{m}$  in 5- $\mu\text{m}$  increments

60-100  $\mu\text{m}$  in 10- $\mu\text{m}$  increments

- Sectioning range individually adjustable depending on specimen size (sectioning window)
- Sectioning speed: 0 to 420 mm/s continuously adjustable
- Horizontal feed range: approx. 30 mm/1.18 inches
- Vertical stroke length: approx. 70 mm/2.76 inches
- Coarse feed speed settings (in both directions): 300  $\mu\text{m}/\text{s}$  and 900  $\mu\text{m}/\text{s}$
- Step function via coarse feed buttons in sectioning mode
- Specimen retraction (10-70  $\mu\text{m}$ ) depending on sectioning motor speed, self-adjusting
- Specimen retraction in manual mode from 5 to 100  $\mu\text{m}$  selectable in 5- $\mu\text{m}$  steps
- Section and section thickness totalizer indicated on 4-digit LED display
- Magnet on instrument back panel holds tools when needed
- Emergency stop function
- Socket for connection of backlighting device (optional)
- Socket for connection of footswitch with protection device (optional)

Technical Data:

Dimensions:

Width: 300 mm / 11.81 inches (excl. handwheel)

413 mm / 16.26 inches (incl. handwheel)

Depth: 618 mm / 24.33 inches (incl. section waste tray)

Height: 305 mm / 12.01 inches

Weight: approx. 37 kg / 81.50 lbs

- Admissions: CE, c-CSA-us
- Voltage: adjustable via voltage selector
- Operating temperature range: + 10°C up to +35°C
- Relative air humidity: max. 80 %, non-condensing

Standard delivery:

- 1 RM2255 Basic instrument without specimen orientation (0502 37960)
- 1 Handwheel, assy. (0502 37734)
- 1 Separate control panel RM2255 (0502 37950)
- 1 Section waste tray RM2200 series (0502 37931)
- 1 Dummy for foot switch socket (0443 30420)
- 1 Set of power cords:
  - 1 Power cord D (0411 36958)
  - 1 Power cord USA-C-J (0411 36960)
  - 1 Power cord ST/BU F-5A UK (0411 36959)
- 1 Tool set (0502 37965):
  - 1 Allen key with handle, size 5.0 (0194 04760)
  - 1 Screwdriver (0170 11568)
  - 1 Allen key, size 3.0 (0222 04138)
  - 1 Allen key with handle, size 4.0 (0194 04782)
  - 1 Bottle of special oil for drives, type 405, 50 ml (0336 06086)
- 2 Fine-wire fuses T 3,2A (6943 03201)
- 1 Leica brush with magnet (0183 40426)
- 1 Dust cover (0212 30350)
- 1 Instruction manual for Leica RM2255
- G/E/F/S (0700 37112)