

Leica SM2500 with SP2600



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038337070

Heavy Duty Sliding Microtome with Ultramilling Attachment
Configuration Leica SM2500 with Leica SP2600
100-240 V/50-60 Hz

The Leica SM2500/SP2600 configuration is the ideal combination for specimen surface preparation. Ultramilling is quite often a viable alternative to microtomy and saw microtomy in sample preparation. Instead of preparing a thin section for transmitted light microscopy, a polished-like surface is prepared to be investigated under reflected light.

Principle:

A vertical, rotating spindle carrying a diamond cutting tool on one and a balance weight on the other side is removing thin precise layer after layer of material from a specimen which is driven under the milling head.

The surface preparation is divided into two working steps: the crude pre-preparation using a pre-miller and the final preparation to obtain a mirror-like surface with excellent edge definition using a finishing miller.

By using the ultramilling technique the area of interest can be tracked in depth as the surface layer can be removed in micrometer steps.

Instrument features:

- Leica SM2500 basic instrument with separate electronic control panel
- 2 integrated section waste trays on the microtome
- 2 integrated carrying handles on the microtome
- Carrier for knife holder or Leica SP2600
- X/Y orientation for base plate
- 2 motorized coarse feed speeds:
37 mm/sec and 74 mm/sec
1.46 inches/sec and 2.91 inches/sec
- Sectioning and return speed adjustable continuously and independently from each other
from 0.5 mm/sec to 100 mm/sec
from 0.02 inches/sec to 3.94 inches/sec
- Section thickness adjustment from 0 to 1000 μm
in 1 μm steps
- Individually adjustable knife holder retraction
0 to 1000 μm in 1 μm steps
- Total feed range: 70 mm / 2.76 inches
- Section counter displays number of sections and thickness totalizer, with reset function

- 3 modes of operation: manual, automatic and program
- 3 sectioning modes in automatic mode of operation: single, continuous and step
- Freely adjustable cutting window
- Two selectable specimen stop positions (front or rear)
- Two selectable photo stop positions (front or rear) to enable photo documentation of the prepared block surface for 3-dimensional reconstruction
- Emergency stop
- Foot switch
- Function buttons to activate the optional illumination and optional vacuum extraction system of the Leica SP2600
- Leica SP2600 Ultramilling attachment
- Spindle rotation speed continuously adjustable between 500 and 3000 rpm, in 100-rpm steps
- Calibrations device to accurately adjust the pre- and finishing-miller into the holders
- Carrier for Leica SP2600 when not in use

Technical Data:

Dimensions:

- Microtome (HxWxL): 250 x 390 x 750 mm
- Microtome (HxWxL): 9.84 x 15.35 x 29.53 inches
- Control unit (HxWxL): 220 x 385 x 510 mm
- Control unit (HxWxL): 8.66 x 15.16 x 20.08 inches

Weight:

- Microtome: approx. 75 kg / 165.20 lbs
- Control unit: approx. 23 kg / 50.66 lbs

- Required benchtop space for microtome with control unit:

1000 x 950 mm / 3.94 x 37.40 inches

- Admissions: CE

- Operating temperature range: +15°C up to +40°C
- Relative air humidity: max. 60 %, non-condensing

Standard delivery:

- 1 Basic instrument - Leica SM2500
- 1 Separate control unit (0405 42863)
- 1 Connecting cable for control unit (0405 35685)
- 1 Foot switch (0505 33888)
- 1 Set of power cords:
 - 1 Power cord "D" (0411 13558)
 - 1 Power cord "USA-C-J" (0411 13559)
 - 1 Power cord "UK" ST/BU F-5A (0411 27822)
- 1 Set of adapter cables:
 - 2 Adapter cables "USA" (0411 36234)
 - 2 Adapter cables "EU" (0411 36235)
- 1 Set of replacement fuses:
 - 2 x T 1.0 A (6943 01001)
 - 2 x T 6.25A (6943 06251)
 - 2 x T 10.0 A (6943 10001)
- 1 Tool set:

- 1 Allen key, size 2.5 (0194 13195)
- 1 Allen key, size 3.0 (0194 04764)
- 1 Allen key, size 4.0 (0194 04782)
- 1 Allen key, size 5.0 (0194 04760)
- 1 Allen key, size 8.0 (0194 04792)
- 1 Torque wrench, size 32 (0383 11934)
- 1 Single-head wrench, size 13 (0330 11936)
- 1 Brush (0183 04477)
- 1 Grease gun (0383 11896)
- 1 Dust cover for microtome (0212 11725)
- 1 Dust cover for control unit (0212 36428)
- 1 Rubber mat (0405 36405)
- 1 Instruction manual for Leica SM2500
English/German
- 1 Basic instrument - Leica SP2600
- 1 Calibrating device for miller adjustment
(0364 08876) including dial gauge, assy
(0178 10933)
- 2 Holders for pre-miller and finishing miller
(0364 08157) attached to the instrument
- 1 Carrier for SP2600 (when not in use)(0396 12635)
- 1 Tool set:
 - 1 Allen key, size 2.5 with handle (0194 13195)
 - 1 Allen key, size 4.0 (0222 04139)
 - 1 Allen key, size 4.0 with handle (0194 04782)
 - 1 Allen key, size 5.0 with handle (0194 04760)
 - 1 Allen key, size 6.0 with handle (0194 03959)
 - 1 Allen key, size 8 (0222 04143)
- 1 Power cord - TYPKN 2/5 7,5 V (0364 11446)
- 1 Box level (0396 12589)
- 1 Plexiglass block, 19 x 33 x 53 (0364 11759)
- 1 Balance weight (0364 11933)
- 1 Flat belt (0181 12409)
- 1 Dust cover (0212 12591)
- 1 Instruction manual Leica SP2600
English/German