

## Leica CM3600 220V/60 Hz



Leica CM3600-- Cryomacrotome

041742576

Cryostat for large surface whole body sectioning  
220 V/60 Hz - Stroke 70 mm

The Leica CM3600 Cryomacrotome is a large surface Cryosectioning system specifically designed for the use in new drug development (phase-I preclinical studies) projects.

The system is based on the PMV/LKB 450 MP/2250 technology but continuously modified to meet the strengthened requirements of today's drug development work.

The system holds a powerful twin-compressor cooling system to optimize the cooling capacity needed by a cryostat cooling chamber of the size used with this instrument. The instrument is controlled via a state-of-the-art freely programmable PLC controller. The customer interface is realized with a PC holding a fast Pentium chip. A remote service support function is provided with the instrument. This feature does allow our service support engineers to communicate with the system directly to provide fast and efficient technical service and systems support.

The system may also be usable for some other biomedical research requirements like structural bone research, and applications related to the cryoplaning technique. Please contact Leica Microsystems if you want to discuss your specific application.

The system features:

Microtome:

Section thickness selection 1 - 200  $\mu$ m,

Sectioning range, stroke length: 0 - 450 mm,

Sectioning speed 0 - 80 mm/s

Knife retraction during return stroke:

adjustable between 50-250  $\mu$ m

Total vertical stroke of knife: approx. 70 mm

Total horizontal specimen stroke: 450 mm

Horizontal motor-driven specimen sledge movement

Specimen orientation via ball-and-socket joint:

approx. 5° (x/y/z direction)

Maximum specimen size (L x W x H):

450 x 150 x 70 mm

17.72 x 5.91 x 2.76 inches

Knife holder for special steel and tungsten

carbide knives and for disposable blade

holdersystem 157 AR and H45L blades

Clearance angle adjustment of knife holder:

0 - 20 °

Control unit:

PC, hard disk, keyboard,  
mouse, monitor

Modes of operation (sectioning):

manual via knee lever and automatic, programmable  
Unidirectional data interface RS 232 for data  
printing

Automatic temperature alarm system

PC anywhere remote control software package

Cryochamber and cooling system:

All values do apply for a maximum room temperature of 22 ° C and a relative humidity of 60 %. An air-conditioned room is highly recommended to enjoy the full cooling capacity of the Leica CM3600.

Temperature range: adjustable from 0 ° to -30 °C

Temperature control accuracy: +/- 3 °C

Defrost cycles: programmable, automatic hot-gas defrosting

Section dehydration function

Standard delivery includes:

1 Basic instrument (cryochamber compressor and PLC control system) (0417 25527)

1 Sledge Microtome 450C with integrated knife holder and specimen sledge (0417 33843)

1 PC including system specific software and keyboard (0417 33844)

1 Flat screen (0417 33846)

1 Mousepad (0417 29029)

1 Disposable blade holder 157 AR (0417 26152)

1 Dispenser with 10 disposable blades, type H45L (0216 26153)

1 Sectioning tool, 150 mm (0417 19039)

1 Levelling device for specimen adjustment (0387 18191)

1 Positioning tool for use with disp. blade holder (0471 28760)

1 Tool set (0022 50344):

-1 Allen key, size 1.5 (0222 10050)

-1 Allen key, size 6.0 (0222 04141)

-1 Allen key with handle, size 2.0 (0194 04790)

-1 Allen key with handle, size 2.5 (0194 13195)

-1 Allen key with handle, size 3.0 (0194 04764)

-1 Allen key with handle, size 4.0 (0194 04782)

-1 Allen key with handle, size 5.0 (0194 04760)

-1 Allen key with handle, size 6.0 (0194 03959)

-1 Double open-ended wrench, size 14/15 (0329 38799)

-1 Double open-ended wrench, size 16/17 (0329 38800)

-1 Syringe with needle, 10ml (0371 19650)

-1 Pair of cut resistant gloves, size S (0340 40859)

-1 Pair of cut resistant gloves, size M (0340 29011)

-1 "Leica" brush with magnet (0183 40426)

1 Special oil for Leica CM3600, bottle 500 ml (0336 19483)

1 Instruction manual for Leica CM3600

- English (0708 30099)
- German (0708 31099)
- French (0708 32099)

Dimensions:

Cryochamber/compressor unit (external):

(L x H x W) 2,800 x 1,090 x 0,82 m

Cryochamber (internal): 1,650 x 720 x 0,6 m

Total weight (incl. microtome): 660 kg

Weight of microtome: 150 kg

Shipping data:

Gross weight: 770 kg

Total volume: 2.2 m<sup>3</sup>

Shipping pack: 3 pallets

Installation site requirements:

Wiring cables diameter:

Europe: 2.5 qmm, 16 A, 380 V

USA: 2,5 qmm, 25 A, 208 V

Japan: 2,5 qmm, 2,25 A, 200 V

Taiwan: 2,5 qmm, 25 A, 220 V

Room conditions:

Air hose for connection of debris extraction system (optional accessory) 5 bar pressure system required.

Min. 2.90m x 1.50m wall space for installation of the instrument required.

Transportation ways/doors: minimum 1.50 m wide

Relative humidity: 60 %

Room temperature: 22 °C

We highly recommend to operate the instrument in a fully air-conditioned room for proper function according to specifications.

Installation service for CM3600 at customer site, including travel/lodging expenses and labor cost, are also included.

For application training please contact your local Leica representative or Leica Microsystems Nussloch GmbH, Marketing Department or Service Support Department directly.