



CRYOSTATS

MEV / MEV + / MNT

ROUTINE AND HIGH-END CRYOSTATS
FOR A WIDE RANGE OF APPLICATIONS
IN HISTOPATHOLOGY AS WELL AS IN INDUSTRY.
BEST ERGONOMIC FEATURES AND EFFICIENCY.

EXCLUSIVE TO SOLMEDIA LTD IN THE UK

DESIGN &
MANUFACTURING
MADE IN GERMANY

Cryostats

The Slee cryostats stand for reliability, precision, safety and convenience for a wide range of applications in histopathology as well as in industry for quality control and materials research. Since the development of the world's first cryostat, Slee stands for the highest quality medical devices and products. The devices offer best ergonomic features and efficiency. The **MEV** and **MNT** series are equipped with a spacious cooling chamber, have intuitive controls and an automatic defrost function. The heart of all devices is the precision rotary microtome in proven Slee quality. A wide range of optional accessories allows adaptation to individual requirements.

Overview cryostats



MEV / MEV +
Routine cryostat

Exchangeable standard knife or disposable blade holder

Specimen orientation

Low temperature storage area for up to 24 object holders

Power saving mode

Automatic motorized retraction

Options

- 2 quick freezing positions
- UV-C disinfection
- Object cooling (-45 °C)
- Extraction system

Specifications

Cutting thickness 0.5 - 100 µm

Trimming thickness 0.5 - 750 µm

Horizontal advance 28 mm

Vertical stroke 57 mm

Specimen orientation x/y axis 8°, z axis 360°

Specimen holders 22 and 35 mm Ø, with grip protection

Cryochamber temperature 0 °C down to -35 °C

MEV 680 x 760 x 1,110 mm (W x D x H)

MEV 127 kg, MEV + 154 kg

MEV +: product based on MEV platform including the following options:
UV-C disinfection, 2 quick freezing positions and object cooling



MNT
High-end cryostat

Exchangeable standard knife or disposable blade holder

Variable cutting speed

Specimen orientation

Low temperature storage area for up to 24 object holders

Power saving mode

Automatic motorized retraction

Options

- 2 quick freezing positions
- UV-C disinfection
- Object cooling (-45 °C)
- Extraction system

Specifications

Cutting thickness 0.5 - 100 µm

Trimming thickness 0.5 - 750 µm

Horizontal advance 28 mm

Vertical stroke 57 mm

Variable cutting speed 0.5 - 300 mm/s

Specimen orientation x/y axis 8°, z axis 360°

Specimen holders 22 and 35 mm Ø, with grip protection

Cryochamber temperature 0 °C down to -35 °C

MEV +, MNT 750 x 760 x 1,110 mm (W x D x H)

154 kg

MEV / MEV + Routine cryostat

The model **MEV** features convenient operation and a modern rotary microtome. The space-saving design has a large stainless steel cryochamber, an effective freezing bar with 24 positions and a cryochamber cooling temperature down to -35 °C.

Many years of experience in this market and regular feedback from customers enable us to provide the **MEV +** cryostat, covering the most common requirements most frequently needed in routine histology. The device is equipped with UV-C surface disinfection, 2 quick freezing positions and object cooling.



Highlights

- Modern rotary microtome with high-precision automatic feed
- Integrated section counter
- Large anti-roll plate
- Intuitive control
- Automatic defrost
- 24 freezing positions
- Extraction system (optional)
- 2 quick freezing positions (optional)
- UV-C disinfection (optional)
- Object cooling (optional)

	Item No.
MEV 230 V, 50/60 Hz	10150000
MEV 115 V, 60 Hz	10153000

Standard components

Anti-roll plate
Specimen holders (5 x Ø 22 mm; 5 x Ø 35 mm)
Section counter
Disposable blade holder (alternatively: standard knife holder)
Heat extractor (1 pcs.)
Rack for specimen holders (stainless steel)
Disposable blades (box with 50 pcs.)
CryoGlue embedding medium (125 ml)
Cryostat low temperature oil (50 ml)
Set of Allen keys
Clear-cut brush
Mains cable
Manual

	Item No.
MEV + 230 V, 50/60 Hz	10150700
MEV + 115 V, 60 Hz	10150701

MEV + including: UV-C disinfection, 2 quick freezing positions and object cooling

Specifications

Cryochamber temperature	0 °C down to -35 °C
Section thickness range	0.5 - 100 µm
Section thickness settings	0.5 - 2 µm in 0.5-µm-steps 2 - 20 µm in 1-µm-steps 20 - 50 µm in 2-µm-steps 50 - 100 µm in 5-µm-steps
Trim thickness settings	0.5 - 750 µm 0.5 - 2 µm in 0.5-µm-steps 2 - 20 µm in 1-µm-steps 20 - 50 µm in 2-µm-steps 50 - 150 µm in 5-µm-steps 150 - 750 µm in 10-µm-steps
Horizontal advance	28 mm
Vertical stroke	58 mm
Specimen retraction	0 - 200 µm, selectable
Specimen orientation, horizontal	8°
Specimen orientation, vertical	8°
Specimen orientation, z axis	360°
Electrical parameters	115 V, 60 Hz 230 V, 50/60 Hz
Dimensions (W x D x H)	
MEV	680 x 760 x 1.110 mm
MEV + and all devices with object cooling option	750 x 760 x 1.100 mm
Weight w/o accessories	127 kg MEV 154 kg MEV +



MEV stainless steel cryochamber with modern rotary microtome

MNT

High-end cryostat

The **MNT** high-end cryostat is designed for histopathology and research applications. The device is equipped with a fully automatic rotary microtome with extremely high mechanical stability and backlash-free roller guides. Furthermore, the device has a state-of-the-art control system.



Highlights

- Modern rotary microtome with high-precision automatic feed
- Integrated section counter
- Cutting motor with variable speed
- Large anti-roll plate
- Intuitive control
- Automatic defrost
- 24 freezing positions
- Extraction system (optional)
- 2 quick freezing positions (optional)
- UV-C disinfection (optional)
- Object cooling (optional)

Options

Options	Item No.
2 quick freezing positions	10159000
UV-C disinfection 230 V, 50/60 Hz	10169000
UV-C disinfection 115 V, 60 Hz	10169001
Object cooling 230 V, 50/60 Hz	10164000
Object cooling 115 V, 60 Hz	10164200
Debris extraction system 230 V, 50/60 Hz	10167000
Debris extraction system 115 V, 60 Hz	10167200

Optional accessories

Optional accessories	Item No.
Standard knife holder	10156010
Section waste cloth (set of 10 pcs.)	30000015
Specimen holder (Ø 22 mm; 5 pcs.)	30000002
Specimen holder (Ø 28 mm; 5 pcs.)	30000017
Specimen holder (Ø 35 mm; 5 pcs.)	30000000
Specimen holder (Ø 50 mm; 5 pcs.)	30000003
Rack for specimen holders (stainless steel)	31000769
Cork plates (Ø 20 mm; 100 pcs.)	30001001
CryoGlue embedding medium (4 x 125 ml)	30001100
Clear-cut brush	30001030
Anti-roll plate (disposable blade holder, plastic)	32001050
Anti-roll plate (standard knife holder, plastic)	32001049
Steel knife (16 cm-C-profile, 1 pcs.)	28000026
Disposable blades (cf. consumables)	
Ergosit laboratory chair	10157010

	Item No.
MNT 230 V, 50/60 Hz	10160000
MNT 115 V, 60 Hz	10162000



MNT stainless steel cryochamber with modern rotary microtome and specimen holder

Standard components

Anti-roll plate
Specimen holders (5 x Ø 22 mm; 5 x Ø 35 mm)
Section counter
Disposable blade holder (alternatively: standard knife holder)
Heat extractor (1 pcs.)
Foot switch for motor drive
Rack for specimen holders (stainless steel)
Disposable blades (box with 50 pcs.)
CryoGlue embedding medium (125 ml)
Cryostat low temperature oil (50 ml)
Set of Allen keys
Clear-cut brush
Mains cable
Manual

Specifications

Cryochamber temperature	0 °C down to -35 °C
Section thickness range	0.5 - 100 µm
	0.5 - 2 µm in 0.5-µm-steps 2 - 20 µm in 1-µm-steps 20 - 50 µm in 2-µm-steps 50 - 100 µm in 5-µm-steps
Section thickness settings	
	0.5 - 750 µm 0.5 - 2 µm in 0.5-µm-steps 2 - 20 µm in 1-µm-steps 20 - 50 µm in 2-µm-steps 50 - 150 µm in 5-µm-steps 150 - 750 µm in 10-µm-steps
Trim thickness settings	
Horizontal advance	28 mm
Vertical stroke	58 mm
Sectioning speed	20 - 300 mm/s, selectable
Specimen retraction	0 - 200 µm, selectable
Specimen orientation, horizontal	8°
Specimen orientation, vertical	8°
Specimen orientation, z axis	360°
Electrical parameters	115 V, 60 Hz 230 V, 50/60 Hz
Dimensions (W x D x H)	750 x 760 x 1.100 mm
Weight w/o accessories	154 kg

Options

	Item No.
2 quick freezing positions	10159000
UV-C disinfection 230 V, 50/60 Hz	10169000
UV-C disinfection 115 V, 60 Hz	10169001
Object cooling 230 V, 50/60 Hz	10164000
Object cooling 115 V, 60 Hz	10164200
Debris extraction system 230 V, 50/60 Hz	10167000
Debris extraction system 115 V, 60 Hz	10167200

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Specimen holder (Ø 35 mm; 5 pcs.)	30000000
Specimen holder (Ø 50 mm; 5 pcs.)	30000003
Rack for specimen holders (stainless steel)	31000769
Cork plates (Ø 20 mm; 100 pcs.)	30001001
CryoGlue embedding medium (4 x 125 ml)	30001100
Clear-cut brush	30001030
Anti-roll plate (disposable blade holder, plastic)	32001050
Anti-roll plate (standard knife holder, plastic)	32001049
Steel knife (16 cm-C-profile, 1 pcs.)	28000026
Disposable blades (cf. consumables)	
Ergosit laboratory chair	10157010



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