SLEE medical
an orgentec company

Product catalog

clear cut design. dynamic tradition.

- Tissue Processors
- Embedding Centers
- Microtomes
- Cryostats
- Floating Bath & Slide Warmer
- Staining Systems
- Cover Slipper
- Cytocentrifuge

clear cut design.
dynamic tradition.

SLEE medical supplies a broad product range for equipping pathological-histological laboratories. Our products are used for the sample preparation of microscopic sample material.

More than 50 years of experience in development, production and sales of freezing microtomes, microtomes and histological equipment is guarantee of high product quality and the continuous success of SLEE medical.

The combination of flexibility and competence allows us to fulfill individual requests and custom-made solutions.

SLEE medical develops, produces and services its products at the SLEE headquarter in Mainz, Germany.

www.slee.de

SLEE medical an orgentec company

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tissue processors

- MTP · Robust carousel tissue processor
- MTM I/II · Vacuum tissue processor

Tissue Processors

Embedding Centers

Microtomes

Cryostats

Floating Bath & Slide Warmer

Staining Systems

Cover Slipper

Cytocentrifuge

mtp

MTP

Robust carousel tissue processor

The MTP carousel tissue processor guarantees gentle and highly reliable specimen processing in conjunction with state of the art control features. The specimen throughput can be doubled to 240 cassettes per run with a second transport basket. For faster and substantially improved processing of tissue, the instrument can optionally be equipped with vacuum units for all paraffin beakers or all positions including reagent beakers. An integrated battery ensures highest process safety even in environments with frequent power failures.

- Easy loading and full process control by rotating table principle
- Integrated UPS system protects your samples
- Up to 240 cassettes per run
- Intuitive control panel
- Delayed start function

Accessories

Fume hood for MTP / MSM (perspex)	#11000220
Glass reagent beaker (DURAN®)	#11000250
Plastic reagent beaker	#11000251
Heated paraffin beaker (aluminum)	#11000252
Transport basket (stainless steel) incl. holder and lid	#11000253
Complete vacuum unit for units with two paraffin beakers	#11000223
Complete vacuum unit for unit with three paraffin beakers	#11000224
Transport basket (stainless steel)	#11000256
Extension **Twin basket** for MTP	#11000221
Exhaust fan including carbon filter	#11000211
Exchange carbon filter	#11000254
Organizer cartridge	#11000255

MTP	**Art. No. #11000200**

Specifications

Dimensions (width x depth x height)	850 x 850 x 750 mm
Weight without accessories	70 kg
Reagent beakers	
Material	POM, white
Capacity	2000 ml
Heated paraffin beakers	
Material	Aluminum, anodized, double walled
Capacity	2000 ml
Transport basket	
Material	Stainless steel
Capacity	120 standard cassettes
Programming	20 programs Freely programmable
Electrical parameters	100–240 V, 50/60 Hz

Standard components

- Operation manual
- 10x Reagent breakers (POM, white)
- 1x Organizer tray (stainless steel)
- 2x Heated paraffin beakers (Aluminum)
- 1x Stainless steel transport basket
- 1x Labelling set for reagent breakers
- Mains cable

MTM Vacuum tissue processor
Enhanced Flexibility in Tissue Processing

The SLEE vacuum tissue processor family MTM combines state of the art technology with comfortable handling and design. The MTM II fast tissue processor offers a cost-efficient and user-friendly alternative for the fast biopsies processing and the overnight batch tissue processing needs of every histology laboratory.

MTM I

MTM II

The innovative and patented enhanced heat exchanger (EHE) allows fastest non-microwave tissue processing today available.

The system can be operated with traditional reagents or with most of the xylene and ethyl alcohol substitute available on the market. A user-friendly reagent management system and an optimized cleaning cycle routine are the basis for higher cost efficiency and higher turn-over. Process safety is guaranteed with an intelligent remote alarm system that communicates via mobile or internet.

- Safe tissue processing with preheated reagents
- Fully automatic reagent management system
- Automatic cleaning cycles
- Intuitive control via 15'' touch screen
- Charcoal filter supported ventilation
- Remote alarm system

Two Functionalities –One Instrument

Short Processing Time	High Sample Turnover
45 Minutes/Run Biopsis	300 Samples/Run Routine

Intuitive control via 15'' touchscreen

Standard components	MTM I	MTM II
Basic instrument	■	■
Enhanced Heating Element (EHE)		■
15" Color-LCD-Screen	■	■
Cassette basket (stainless steel)	■	■
10x reagent container	■	■
4+1x paraffin container	■	■
2x cleaning solution container	■	■

Specifications	MTM I	MTM II
Dimensions (width x depth x height)	700 x 600 x 1300 mm	
Weight Without accessories	120 kg	135 kg
Sample Processing Chamber capacity	300 standard cassettes	
Sample Processing Chamber Temperature	RT to 65 °C	
Reagent containers	10 (2.5 liters each)	
Paraffin containers	4+1 (2.5 liters each)	
Electrical parameters	1000 W 100, 115 or 230 V, 50/60 Hz	1500 W

Accessories	MTM I & II
Cassette basket	#39600061
Holder for cassette basket	#39600062
Reagent container	#39600030
Carbon filter	#39600004
UPS unit	#11000505
Printer	#11000506

MTM I Histology vacuum tissue processor	**Art. No. #11000500**
MTM II Histology fast tissue processor	**Art. No. #11000600**

embedding centers

SLEE offers two ergonomic and reliable embedding centers for optimum workflow in smaller and routine laboratories. MPS/P1 is a compact system for reduced turnover requirements, MPS/P2 is a modular system for high-turnover routine applications.

- MPS/P1 · Basic paraffin embedding center for low turnover
- MPS/P2 · Modular paraffin embedding center for high turnover

Tissue Processors

Embedding Centers

Microtomes

Cryostats

Floating Bath & Slide Warmer

Staining Systems

Cover Slipper

Cytocentrifuge

MPS/P1

Basic paraffin embedding centers

The space-saving MPS/P1 is a complete paraffin dispensing unit including a 3.3 liters paraffin container, a heated working area and a cooling spot. The ergonomically elevated heated working area is illuminated with adjustable LED light and allows comfortable processing of specimen. All functions of the unit are controlled by an intuitive control panel including programmable working hours. Two heated trays provide a pre-warming capacity of 80 cassettes and 200 embedding moulds.

- Manual lever and foot switch for paraffin dispenser
- Adjustable magnifier
- Ergonomic hand rest
- Spacious and heated paraffin collection tray
- 3.3 liters paraffin container
- Cooling spot
- Two heating trays for 80 cassettes and 200 embedding moulds.
- Ergonomic working height
- Working area with LED light
- Intuitive control panel

Standard Components

Heated paraffin (wax) container
Heated dispenser element
Heated cassette/mould storage containers
Heated working area
Cooling spot
Magnifying glass, adjustable
Paraffin collection tray
Working area illumination (LED)
Operation manual

Specifications

Dimensions (width x depth x height)	450 x 570 x 290 mm
Weight without accessories	23 kg
Paraffin container	3.3 liters
Heated cassette/ mold container	Approx. 80 cassettes Approx. 200 molds 30–80 °C programmable

MPS/P1 **Art. No. #10190000**

MPS/P2

Modular paraffin embedding center

The MPS/P2 features ease of operation, spacious working area, large container capacity and reliability. All modules operate at the same working height and can be arranged according to laboratory requirements. The extendable modular 3-component system with separate temperature control elements consists of a dispensing element MPS/P, a preheating unit MPS/W and a separate cooling plate MPS/C.

- Spacious cooling plate
- Adjustable magnifier
- Ergonomic hand rest
- Electrically heated forceps
- Programmable working hours
- Easily adjustable forceps holders
- 5 liters paraffin container
- Spacious and heated paraffin collection tray
- Working area with adjustable LED-illumination and integrated cold spot

MPS/P2 230V 50/60 Hz	**Art. No. #10185000**
MPS/P2 115V 50/60 Hz	**Art. No. #10187000**

Standard components

- Heated paraffin (wax) container
- Heated dispenser element
- Heated working area
- Cooling spot
- Magnifying glass, adjustable
- Paraffin collection tray
- Working area illumination (LED)
- Operation manual

Dispensing module MPS/P

Specifications

Temperature range	up to 80 °C (1 °C increments) for paraffin container up to 70 °C (1 °C increments) for working area down to -10 °C for cooling spot
Capacity	5 l paraffin
Cooling spot	50 x 50 mm, peltier
Forceps holders	2 x 4 adjustable (magnetic)
Illumination	3 LED spots fixed + 3 LED spots adjustable
Magnifier	included, easy to orientate
Paraffin flow	activation manually or by footswitch continuously adjustable flow rate
Control	microprocessor, programming of temperature, working day, working time, time, date
Work area	450 x 240 mm
Dimensions (width x depth x height)	450 x 570 x 295 mm
Weight	21 kg
Electrical parameters	115 or 230 V / 50/60 Hz
Consumption	P_{max}: 380 W
Temperature	18–35 °C, air conditioned room recommended
Humidity	< 60 %

MPS/P 230V 50/60 Hz	**Art. No. #10170000**
MPS/P 115V 50/60 Hz	**Art. No. #10172000**

MPS/W

MPS/WH

MPS/W and MPS/WH

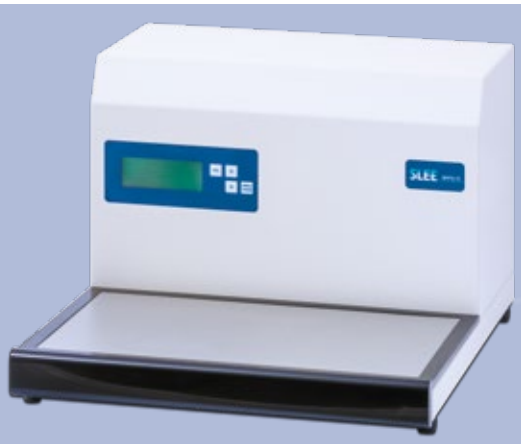
Prewarming unit

Specifications

Temperature range	up to 80 °C (1 °C increments) for working area
Cassette bath	Capacity 150 cassettes, removable **MPS/W** 261 x 271 x 32 mm **MPS/WH** 261 x 271 x 48 mm
Control	microprocessor, programming of temperature, working day, working time, time, date
Mold warmer	Capacity 500 molds 260 x 220 x 71 mm
Dimensions (width x depth x height)	300 x 570 x 295 mm

Weight	15 kg
Power	230 V / 50/60 Hz
Consumption	P_{max}: 320 W
Temperature	18–35 °C, air conditioned room recommended
Humidity	< 60 %

MPS/W 230V 50/60 Hz	**Art. No. #10180000**
MPS/W 115V 50/60 Hz	**Art. No. #10182000**
MPS/WH 230V 50/60 Hz	**Art. No. #10180001**
MPS/WH 115V 50/60 Hz	**Art. No. #10182001**



MPS/C and MPS/CX

Cooling unit

Specifications

Temperature range	min. -15 °C (1 °C increments)
Max. capacity	**MPS/C** 50 to 80 cassettes **MPS/CX** 75 to 120 cassettes
Control	microprocessor, programming of temperature, working day, working time, time, date
Work area	**MPS/C** 370 x 270 mm **MPS/CX** 570 x 270 mm
Dimensions (width x depth x height)	**MPS/C** 400 x 570 x 295 mm **MPS/CX** 600 x 570 x 295 mm
Weight	**MPS/C** 25 kg **MPS/CX** 36 kg
Electrical parameters	115 or 230 V / 50/60 Hz
Consumption	**MPS/C** Pmax: 150 W **MPS/CX** Pmax: 450 W
Temperature	18–35 °C, air conditioned room
Humidity	< 60 %

MPS/C 230 V, 50/60 Hz	**Art. No. #10175000**
MPS/C 115 V, 60 Hz	**Art. No. #10177000**
MPS/CX 230 V, 50/60 Hz	**Art. No. #10175020**
MPS/CX 115 V, 60 Hz	**Art. No. #10177020**

rotary microtomes

All SLEE microtomes are produced at the company's seat in Mainz, Germany. The highly precise, modularly built rotary microtomes range from a manual unit, type CUT 4062, via the semi-automatic type CUT 5062 to the fully-automatic CUT 6062.
All microtomes are equipped with maintenance-free caged roller bearing guide ways and micrometer feed mechanism to provide highest stability and precision. A huge variety of accessories leaves the choice to customize your equipment and allows the use for any type of material or specimen in medical research, routine diagnostics or industrial applications.

Tissue Processors
Embedding Centers
Microtomes
Cryostats
Floating Bath & Slide Warmer
Staining Systems
Cover Slipper
Cytocentrifuge

Overview

CUT 4062	CUT 5062	CUT 6062
Art. No. 10065000	Art. No. 10070001	Art. No. 10080001
The manual precision microtome	**Semi-automatic precision microtome**	**Fully automatic precision microtome**
Exchangeable standard knife or disposable blade holder	Exchangeable standard knife or disposable blade holder	Exchangeable standard knife or disposable blade holder
Trimming function in 4 steps	Motor trimming function, 0–300 µm	Motor trimming function, 0–300 µm
Ergonomically located coarse feed wheel	Motor coarse advance in 2 speeds	Motorized sectioning (section window / variably adjustable cutting speeds)
Object orientation	Object orientation	Object orientation
Acoustic signal at end positions	2 Specimen feed memory positions	2 Specimen feed memory positions
Automatic retraction	Automatic motor retraction	Automatic motor retraction

Options

Section counter, universal cassette clamp, standard object clamp (up to 50 x 50 mm), foil clamp, prisma set	Universal cassette clamp, standard object clamp (up to 50 x 50 mm), foil clamp, prisma set	Universal cassette clamp, standard object clamp (up to 50 x 50 mm), foil clamp, prisma set

Specifications

610 D x 480 W x 350 H	610 D x 480 W x 350 H	610 D x 480 W x 350 H
33 kg	33 kg	34 kg
Cutting thickness 0.5–60 µm	Cutting thickness 0.5–100 µm	Cutting thickness 0.5–100 µm
Trimming thickness 10; 20; 30; 40 µm	Trimming thickness variable 0.5–300 µm	Trimming thickness variable 0.5–300 µm
Horizontal advance 28 mm	Horizontal advance 28 mm	Horizontal advance 28 mm
Vertical stroke 60 mm	Vertical stroke 60 mm	Vertical stroke 60 mm
		Cutting speed variable 3–300 mm/s
Specimen orientation x/y axis: 8° z axis: 360°	Specimen orientation x/y axis: 8° z axis: 360°	Specimen orientation x/y axis: 8° z axis: 360°

CUT 4062

The manual precision microtome

The new SLEE CUT 4062 is a manual rotary microtome designed for paraffin sections and research-, plastic- and industrial applications.

- High precision specimen feed
- Smoothly running handwheel
- Handwheel lock in each position
- Trimming function in 4 steps
- Specimen retraction upon backstroke
- Acoustic signal for end position of specimen movement
- Vibration free microtome base plate
- Ergonomically located coarse feed wheel
- Spacious, integrated section waste tray
- Wide range of accessories

CUT 4062	Art. No. #10065000

CUT 5062

Semi-automatic precision microtome

The SLEE CUT 5062 is a semi-automated rotary microtome designed for paraffin sections and research-, plastic- and industrial applications. The modular design allows custom-made assemblies from a huge range of accessories.

- Motorized trimming up to 300 µm, programmable
- Motorized advance (2 speeds) / return of specimen
- 2 Specimen feed memory positions
- Specimen size up to 50 x 50 mm with standard object clamp or standard cassette size for universal cassette clamp
- Intuitive control panel
- Variable retraction
- Section counter (Stroke / Distance)
- Spacious, integrated section waste tray
- Wide range of accessories

CUT 5062	Art. No. #10070001

CUT 6062

Fully automatic precision microtome

The SLEE CUT 6062 is a fully automated rotary microtome designed for paraffin sections and research-, plastic- and industrial applications.
The modular design allows custom-made assemblies from a huge range of accessories.

- Motorized trimming up to 300 µm, programmable
- Motorized advance (2 speeds) / return of specimen
- 2 Specimen feed memory positions
- High efficient motorized sectioning (section window / variably adjustable cutting speeds)
- Variable retraction
- Intuitive control panel
- Section counter (Stroke / Distance)
- Specimen size up to 50 x 50 mm with standard object clamp or standard cassette size for universal cassette clamp
- Spacious, integrated section waste tray
- Wide range of accessories

CUT 6062	Art. No. #10080001

Specifications

Section thickness setting range	**CUT 4062** 0.5–60 µm **CUT 5062/CUT 6062** 0.5–100 µm
Section thickness selection	**CUT 4062** 0–2 µm in 0.5-µm steps 2–10 µm in 1-µm steps 10–60 µm in 2-µm steps **CUT 5062/CUT 6062** 0–2 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
Trimming thickness	**CUT 4062** 10 µm, 20 µm, 30 µm, 40 µm **CUT 5062/CUT6062** 0–300 µm
Specimen feed	**CUT 4062** 28 mm (via coarse feed wheel) **CUT 5062/CUT 6062** 28 mm (step motor) 75 / 150 / 300 / 600 & 3000 µm/s
Specimen feed memory	**CUT 5062/CUT 6062** 2 positions programmable
Vertical specimen stroke	60 mm
Sectioning speed	**CUT 6062** 20–300 mm/s, selectable via slider
Section window	**CUT 6062** 4 sizes selectable
Specimen retraction	**CUT 4062** automatic On return stroke **CUT 5062/CUT 6062** 0–200 µm, selectable
Specimen orientation, horizontal	8°
Specimen orientation, vertical	8°
Specimen orientation, z-axis	360°
Section counter	**CUT 4062** Strokes (optional) **CUT 5062/CUT 6062** Strokes / Distance
Dimensions (width x depth x height)	480 x 610 x 350 mm incl. handwheel and waste tray
Weight without accessories	**CUT 4062/CUT5062** 33 kg **CUT 6062** 34 kg

Standard components

	CUT 4062	CUT 5062	CUT 6062
Basic instrument	■	■	■
Object orientation	■	■	■
Universal cassette clamp, with orientation or standard object clamp	■	■	■
Knife/Blade holder basis	■	■	■
Disposable blade holder or standard knife holder	■	■	■
Waste tray	■	■	■
Foot switch for motor drive			■
Operation Manual	■	■	■
Dust cover	■	■	■

Accessories

External control panel CUT 5062	#10090050
External control panel CUT 6062	#10090051
3-component disposable blade holder (low and high profile blades)	#10090040
3-component disposable blade holder (tungsten carbide blades)	#10090041
Knife/blade holder basis	#10090011
Standard Knife holder	#10090008
Disposable blade holder (low profile)	#10090009
Disposable blade holder (high profile)	#10090010
Disposable blade holder (tungsten carbide blades)	#10090014
Object orientation	#10090003
Universal-Cassette-Clamp, orientable	#10090004
Universal-Cassette-Clamp, fixed	#10090005
QuickLoad-Cassette-Clamp, orientable	#10090055
Standard Object clamp, orientable	#10090006
Standard Object clamp, fixed	#10090007
Standard Object clamp (MTR), fixed	#10090026
Super-Mega-Cassette Clamp, fixed	#10090021
Super-Mega-Cassette Clamp, orientable	#10090027
Foil clamp	#10090016
Section counter for CUT 4062 (installed)	#10090020
Dissection needle	#30030095
Prisma (Set)	#10090017
Disposable blade (low profile; 50 pcs)	#28407000
Disposable blade (high profile; 50 pcs)	#28408000
Tungsten carbide blades (1 pcs.)	#28406000
Microtome knife, Profile: A, B, C or D, Length: 10 to 40 cm	

MMS

Knife sharpener

SLEE have produced and reconditioned steel and hard-metal (tungsten-carbide) knives for decades in the factory in Mainz. However, it is not always economical to find a suitable factory for this service in your area or return the knives for reconditioning to us. Therefore this microtome knife sharpener, type MMS, is a valuable alternative for in-house reconditioning of your steel knives.

- Applicable to all microtome knives (length 100–250 mm)
- Variable honing programs by means of: 2 honing compounds
- Variable speed, selectable
- Timer
- Knife height adjustment
- Safety switch
- Universal power input 100–240 V, 50/60 Hz

MMS **Art. No. #10200000**

Standard components

Basic instrument with lid
Pivoting arm with locking ring
Knife holder, for knives with a back < 10 mm
Glass honing plate, 2 honing surfaces (coarse / fine)
Operation manual
Diamond honing paste, fine (20 g)
Diamond honing paste, coarse (20 g)

Accessories

Diamond honing paste, fine (20 g)	#30012002
Diamond honing paste, coarse (20 g)	#30012003
Glass honing plate (2 honing surfaces (coarse/fine))	#30012004

Specifications

Dimensions (width x depth x height)	370 x 380 x 280 mm
Weight without accessories	17 kg
Electrical parameters	100–240 V, 50/60 Hz

MTR

Bench top quickfreezing unit

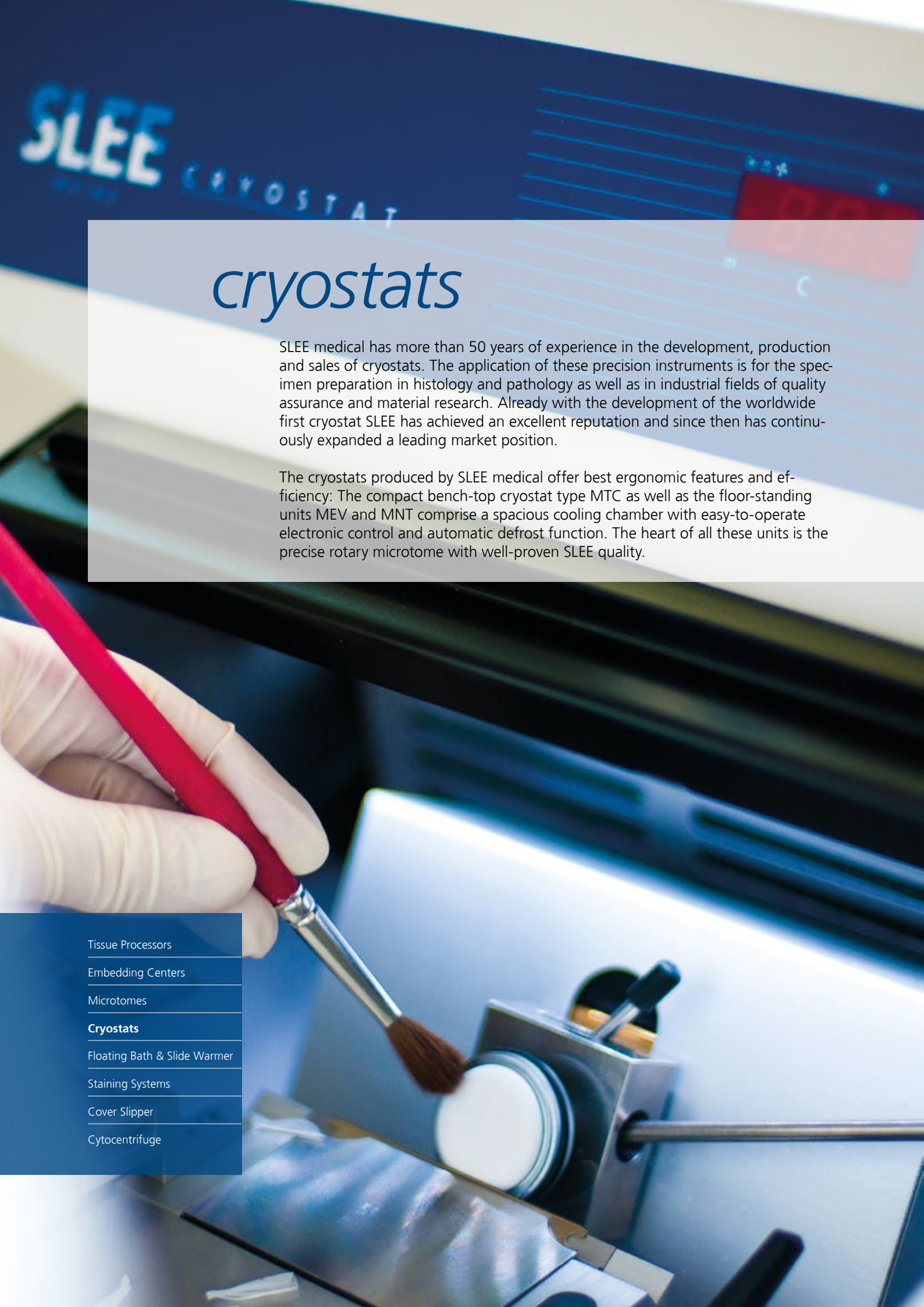
The fast cooling unit consists of a compressor cooling system with a flexible tube and a cooling block which can be adapted onto a standard object clamp of different kinds of microtomes.

- Extremely silent due to special valves
- Self optimizing controller for temperature accuracy
- Manual defrost
- High cooling capacity to -45°C

Specifications

Dimensions (width x depth x height)	410 x 485 x 310 mm
Weight	28 kg
Cooling capacity	-45 °C

MTR	**Art. No. #10110000**



cryostats

SLEE medical has more than 50 years of experience in the development, production and sales of cryostats. The application of these precision instruments is for the specimen preparation in histology and pathology as well as in industrial fields of quality assurance and material research. Already with the development of the worldwide first cryostat SLEE has achieved an excellent reputation and since then has continuously expanded a leading market position.

The cryostats produced by SLEE medical offer best ergonomic features and efficiency: The compact bench-top cryostat type MTC as well as the floor-standing units MEV and MNT comprise a spacious cooling chamber with easy-to-operate electronic control and automatic defrost function. The heart of all these units is the precise rotary microtome with well-proven SLEE quality.

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Overview

MTC	MEV	MNT
Art. No. 10140000	Art. No. 10150000	Art. No. 10160000
Complete bench top cryostat	**Floorstanding ECO-cryostat**	**Floorstanding high-end-cryostat**
Exchangeable standard knife or disposable blade holder	Exchangeable standard knife or disposable blade holder	Exchangeable standard knife or disposable blade holder
Bench-top model	Motor trimming function, 0–300 µm	Motor trimming function, 0–300 µm
Manual coarse advance via side handwheel	Motor coarse advance in 2 speeds	Variable cutting speed
Object orientation	Object orientation	Object orientation
Automatic defrost	Actively cooled 24 position specimen storage	Actively cooled 24 position specimen storage
Power saving mode	Power saving mode	Power saving mode
	Automatic motor retraction	Automatic motor retraction

Options

UV-C disinfection, support stand, dust cover	UV-C disinfection, 2 peltier driven quick freeze positions (-55 °C), debris extraction system	UV-C disinfection, 2 peltier driven quick freeze positions (-55 °C), specimen cooling (-45 °C), debris extraction system

Specifications

735 D x 750 W x 460 H	760 D x 680 W x 1110 H	760 D x 750 W x 1110 H
80 kg	127 kg	154 kg
Cutting thickness 1–25 µm	Cutting thickness 0.5–100 µm	Cutting thickness 0.5–100 µm
	Trimming thickness variable 0.5–300 µm	Trimming thickness variable 0.5–300 µm
Horizontal advance 25 mm	Horizontal advance 28 mm	Horizontal advance 28 mm
Vertical stroke 52 mm	Vertical stroke 57 mm	Vertical stroke 57 mm
		Cutting speed variable 0.5–300 mm/sec
Specimen orientation x/y axis: 8° z axis: 360°	Specimen orientation x/y axis: 8° z axis: 360°	Specimen orientation x/y axis: 8° z axis: 360°
Specimen holders 22 and 35 mm Ø with grip protection	Specimen holders 22 and 35 mm Ø with grip protection	Specimen holders 22 and 35 mm Ø with grip protection
Cooling capacity -40 °C	Cooling capacity -35 °C	Cooling capacity -35 °C

MTC

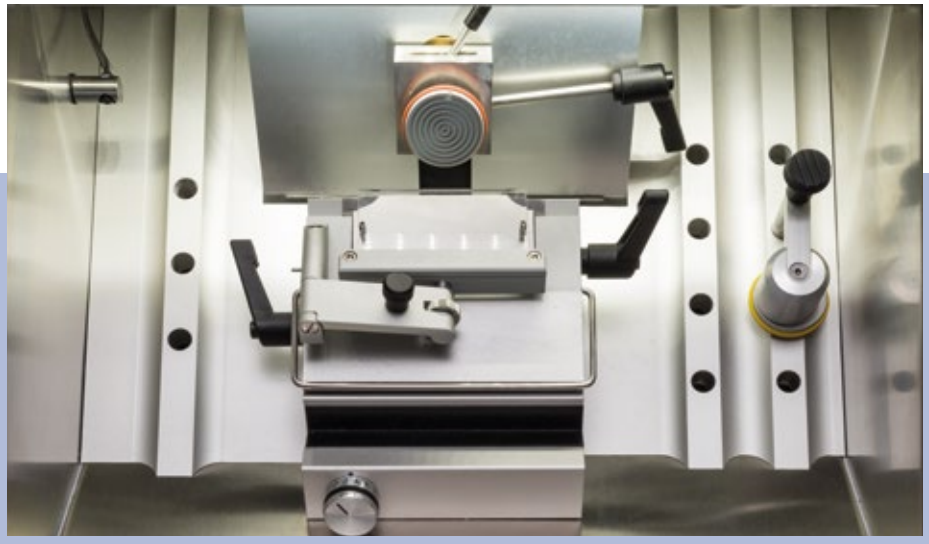
Complete bench top cryostat

The MTC is a unique complete bench top cryostat for use in histology/pathology and research laboratories. The compact design makes this instrument an ideal backup for installed high-end cryostats and cost efficient alternative for low turnover applications. MTC is designed utilizing the latest ergonomic and technical ideas with special attention to hygiene and ease of handling.

- High-precision rotary microtome
- 6x Specimen preparation positions
- Integrated heat extractor
- Orientation of specimen holder in three planes
- Viewing window made of frost-free dual insulation glass
- Space-saving design
- Easily transportable
- Intuitive control panel
- Automatic defrost
- UV-C disinfection (optional)
- Height adjustable support stand (optional)

Standard Components

Basic instrument
Manual rotary microtome
Operation manual
Object holders (5x Ø 22 mm; 5x Ø 35 mm)
1x Heat extractor
1x Rack for object holders (stainless steel)
Brush
Anti-roll plate, ready to use
1x Bottle cryostat low temperature oil
1x CryoGlue embedding medium (1x 125 ml)
1 Box of disposable blades (50 pcs.) or 1 steel knife (12 cm C-profile)
Set of allen keys



MTC Cooling chamber with manual microtome

Specifications

Cryochamber temperature	0 °C to -40 °C
Section thickness setting range	1–25 µm
Section thickness selection	0–10 µm in 1-µm steps 10–25 µm in 5-µm steps
Horizontal specimen advance	25 mm
Vertical specimen stroke	52 mm
Dimensions and weight (width x depth x height)	550 x 730 x 470 mm
Weight without accessories	80 kg
Specimen orientation, horizontal	8°
Specimen orientation, vertical	8°
Specimen orientation, z-axis	360°
Trimming thickness	0–10 µm in 1-µm steps 10–25 µm in 5-µm steps

MTC 230 V, 50/60 Hz	**Art. No. #10140000**
MTC 115 V, 60 Hz	**Art. No. #10142000**

Accessories

Standard knife holder	#10146000
Disposable blade holder (low profile)	#10147000
Disposable blade holder (high profile)	#10148000
UV-C surface disinfection	#10169000
Heat extractor block	#31000253
Object holder (Ø 22 mm; 5 pcs.)	#30000002
Object holder (Ø 35 mm; 5 pcs.)	#30000000
Rack for object holders (stainless steel)	#31000769
Cork plate (100 pcs; Ø 20 mm)	#30001001
CryoGlue embedding medium (4x 125 ml)	#30001100
Clear cut brush	#30001030
Anti-roll plate	#30001006
Disposable blade (low profile; 50 pcs)	#28407000
Disposable blade (high profile; 50 pcs)	#28408000
Freezing spray (173 g)	#30001010
Cryostat low temperature oil (50 ml)	#30001011
Support stand for MTC	#10140001
Dust cover	#31130001

MEV

Floorstanding ECO cryostat

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

- Modern rotary microtome with motorized µm advance/return
- Large anti-roll plate
- Viewing window made of frost-free dual insulation glass
- Intuitive electronic control panel
- Automatic defrost
- 2x Shock freezing positions (optional)
- UV-C disinfection (optional)
- Storage area for 24 specimen holders

Standard Components

Basic instrument
Semi-automatic rotary microtome
Operation manual
Object holders (5x Ø 22 mm; 5x Ø 35 mm)
1x Heat extractor
1x Rack for object holders (stainless steel)
Brush
Anti-roll plate, ready to use
1x Bottle cryostat low temperature oil
1x CryoGlue embedding medium (1x 125 ml)
1 Box of disposable blades (50 pcs.) or 1 steel knife (16 cm C-profile)
Set of allen keys

MEV Cooling chamber with semi-automatic rotary microtome

Specifications

Cryochamber temperature	0 °C to -35 °C
Section thickness setting range	0.5–100 µm
Section thickness selection	0–2 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
Horizontal specimen advance	28 mm
Vertical specimen stroke	57 mm
Specimen retraction	0–200 µm; selectable on return stroke
Dimensions (width x depth x height)	680 x 760 x 1110 mm
Weight without accessories	127 kg
Specimen orientation, horizontal	8°
Specimen orientation, vertical	8°
Specimen orientation, z-axis	360°
Trimming thickness	0–300 µm, programmable

MEV 230 V, 50/60 Hz	**Art. No. #10150000**
MEV 115 V, 60 Hz	**Art. No. #10153010**

Accessories

Standard knife holder	#10156010
Disposable blade holder (low profile)	#10157005
Disposable blade holder (high profile)	#10158005
2x Quick freezing positions	#10159000
UV-C surface disinfection	#10169000
Section waste cloth	#30000015
Object holder (Ø 22 mm; 5 pcs.)	#30000002
Object holder (Ø 35 mm; 5 pcs.)	#30000000
Object holder (Ø 50 mm; 5 pcs.)	#30000003
Rack for object holders (stainless steel)	#31000769
Cork plate (100 pcs; Ø 20 mm)	#30001001
CryoGlue embedding medium (4x 125 ml)	#30001100
Clear-cut brush	#30001030
Anti-roll plate (disposable blade holder)	#32001050
Anti-roll plate (standard knife holder)	#32001049
Disposable blade (low profile; 50 pcs)	#28407000
Disposable blade (high profile; 50 pcs)	#28408000
Freezing spray (173 g)	#30001010
Cryostat low temperature oil (50 ml)	#30001011

MNT

Floorstanding High-End cryostat

The MNT high-end cryostat is designed for histology/ pathology and research applications. The instrument is equipped with a fully automatic rotary microtome with extremely high mechanical stability, tolerance-free roller guides and state of the art electronic control.

- Modern rotary microtome with motorized µm advance/return
- Cutting motor with adjustable speed
- Large anti-roll plate
- Viewing window made of frost-free dual insulation glass
- Intuitive control panel
- Automatic defrost
- Storage area for 24 specimen holders
- 2x Shock freezing positions (optional)
- UV-C disinfection (optional)

Standard Components

Basic instrument
Fully automatic microtome
Operation manual
Object holders (5x Ø 22 mm; 5x Ø 35 mm)
1x Heat extractor
1x Rack for object holders (stainless steel)
Brush
Anti-roll plate, ready to use
1x Bottle cryostat low temperature oil
1x CryoGlue embedding medium (1x 125 ml)
1 Box of disposable blades (50 pcs.) or 1 steel knife (16 cm C-profile)
Set of allen keys

MNT Cooling chamber with fully automatic rotary microtome

Specifications

Cryochamber temperature	0 °C to -35 °C
Section thickness setting range	0.5–100 µm
Section thickness selection	0–2 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
Horizontal specimen advance	28 mm
Vertical specimen stroke	57 mm
Sectioning speed	20–300 mm/s, selectable
Specimen retraction	0–200 µm; selectable on return stroke
Dimensions and weight (width x depth x height)	750 x 760 x 1110 mm
Weight without accessories	154 kg
Specimen orientation, horizontal	8°
Specimen orientation, vertical	8°
Specimen orientation, z-axis	360°
Trimming thickness	0–300 µm, freely programmable

MNT 230 V, 50/60 Hz	**Art. No. #10160000**
MNT 115 V, 60 Hz	**Art. No. #10162000**

Accessories

Standard knife holder	#10156010
Disposable blade holder (low profile)	#10157005
Disposable blade holder (high profile)	#10158005
2x Quick freezing positions	#10159000
UV-C surface disinfection	#10169000
Object cooling	#10164000
Debris extraction system	#10167000
Section waste cloth	#30000015
Object holder (Ø 22 mm; 5 pcs.)	#30000002
Object holder (Ø 35 mm; 5 pcs.)	#30000000
Object holder (Ø 50 mm; 5 pcs.)	#30000003
Rack for object holders (stainless steel)	#31000769
Cork plate (100 pcs; Ø 20 mm)	#30001001
CryoGlue embedding medium (4x 125 ml)	#30001100
Clear-cut brush	#30001030
Anti-roll plate (disposable blade holder)	#32001050
Anti-roll plate (standard knife holder)	#32001049
Disposable blade (low profile; 50 pcs.)	#28407000
Disposable blade (high profile; 50 pcs.)	#28408000
Freezing spray (173 g)	#30001010
Cryostat low temperature oil (50 ml)	#30001011

floating bath & slide warmer

- MWB · Floating water bath
- MST · Slide warming unit

Tissue Processors
Embedding Centers
Microtomes
Cryostats
Floating Bath & Slide Warmer
Staining Systems
Cover Slipper
Cytocentrifuge

MWB
Tissue floating bath

The SLEE water bath MWB is designed for stretching of paraffin sections in histology, research and industry laboratories. The black coated bath surface provides best contrast to identify sections and is easy to clean. The highly efficient heat transfer allows low energy consumption of 300 W.

- Black coated bath
- Heating capacity 300 W
- Stainless steel lid
- Integrated overheat security
- Safety thermostat
- Digital temperature display
- Temperature selection up to 80 °C
- Comfortable, user friendly spout

Specifications

Bath contents	Approx. 3 liters
Dimensions (width x depth x height) Complete unit	280 x 420 x 100 mm
Water bath	235 x 290 x 50 mm
Weight	3 kg
Temperature range	RT to 80 °C
Heating output	300 W

MWB 230 V, 50/60 Hz	**Art. No. #13000200**
MWB 115 V, 60 Hz	**Art. No. #13000202**

MST
Slide warming unit

The SLEE slide drying table MST is designed for drying and baking of paraffin sections in histology, research and industry laboratories. The scratch resistant black working surface is easy to clean. The highly efficient heat transfer allows low energy consumption of 200 W.

- Scratch resistant black working surface
- Heating capacity 200 W
- Integrated overheat security
- Digital temperature display
- Temperature selection up to 80 °C

Specifications

Dimensions (width x depth x height) Complete unit	280 x 420 x 100 mm
Heated Plate	265 x 380 mm
Weight	3 kg
Temperature range	RT to 80 °C
Heating output	200 W

MST 230 V, 50/60 Hz	**Art. No. #13000300**
MST 115 V, 60 Hz	**Art. No. #13000302**

staining systems

- MSM · Robust carousel tissue stainer
- MAS · Robot multistainer

Tissue Processors
Embedding Centers
Microtomes
Cryostats
Floating Bath & Slide Warmer
Staining Systems
Cover Slipper
Cytocentrifuge

MSM

Robust carousel tissue stainer

The MSM carousel stainer is designed to meet the basic requirements for routine staining in histology and cytology laboratories. The instrument is equipped with either 12 or 24 incubation stations that contain up to 400 ml. An integrated battery ensures highest process safety even in environments with frequent power failures. Hazardous fumes are efficiently eliminated by a fume extraction system thereby increasing user safety.

Specifications

Dimensions (width x depth x height)	870 x 870 x 700 mm
Weight without accessories	80 kg
Staining cuvettes	
Material	plastic
Dimensions (width x depth x height)	130 x 40 x 135 mm
Capacity	400 ml
Transport basket	
Material	plastic
Capacity	30 standard size micro slides
Programming	20 staining programs, freely programmable
Electrical parameters	100–240 V, 50/60 Hz

MSM/12	**Art. No. #12000200**
MSM/24	**Art. No. #12000205**

Standard components

	MSM/12	MSM/24
Basic instrument	■	■
Operation manual	■	■
12x staining cuvette (plastic)	■	
24x staining cuvette (plastic)		■
1x transport basket (plastic) Capacity of 30 standard size micro slides	■	■
Mains cable	■	■

Accessories

Perspex hood	#11000220
Staining cuvettes	#38500050
Slide holder (30 slides)	#38500051
Twin option	#12000260
Drying station	#12000256
Exhaust fan	#11000210
Exhaust fan including carbon filter	#11000211
Exchange carbon filter	#39500011

MAS

Automated tissue stainer

The tissue stainer MAS combines flexibility with speed and opens new dimensions in the field of automation. It is possible to work with different staining protocols at the same time due to the large number of 44 stations. The instrument can process up to 12 baskets containing 30 slides each. Programming and process control is via colored LCD display. Its unique Reagent Management System (RMS) ensures high quality samples and helps reducing consumption and costs. User safety and comfort is ensured by a highly efficient integrated exhaust system including carbon filter.

- 4 loading stations
- 4 unloading stations
- 6 water baths for rinsing water
- 30 staining stations with agitation
- Optional 2 drying stations (in combination with 4 waterbaths)
- Active carbon filter or the tubing for exhaust system
- Universal power input 100–240 V, 50/60 Hz

Standard components	MAS	MAS with conveyer to MCS I	MAS with drying stations	MAS with conveyer to MCS I and drying stations
Basic instrument	■	■	■	■
Operation manual	■	■	■	■
4x loading station	■	■	■	■
4x unloading station	■	■	■	■
30x staining cuvette (360 ml)	■	■	■	■
6x washing cuvette	■	■		
4x washing cuvette			■	■
2x drying station			■	■
4 x slide holder (30 slides)	■	■	■	■
Carbon filter	■	■	■	■
Mains cable	■	■	■	■
Conveyer system to coverslipper MCS II		■		■

Specifications

Max. number of program steps	40
Incubation time for each station	1 sec. to 59 min.
Drip collection	adjustable drain time from 0 to 9 sec. patented drip collection technology
Stations, total including: optional:	44 4 loading stations 4 unloading stations 30 incubation stations with agitation 6 wash stations for running water 2 drying stations (temperature adjustable from +40 °C to +90 °C) with 4 wash stations
Dimensions (width x depth x height)	1210 x 670 x 640 mm
Weight without accessories	115 kg
Electrical parameters	100–240 V, 50/60 Hz, 100 VA

MAS	**Art. No. #14000500**
MAS with drying station 230V, 50 / 60 Hz	**Art. No. #14000502**
MAS with conveyer system for coverslipper MCS I	**Art. No. #14000600**
MAS with conveyer system for coverslipper MCS Iand drying station 230V, 50 / 60 Hz	**Art. No. #14000504**

cover slipper

■ MCS I & II · Automated Coverslipper

Tissue Processors
Embedding Centers
Microtomes
Cryostats
Floating Bath & Slide Warmer
Staining Systems
Cover Slipper
Cytocentrifuge

MCS I & II

Automated Coverslipper

The innovative cover slipping technology allows an increased turnover and high reproducibility. The MCS coverslippers work with highest quality standards, cover slipping is done for each single glass separately fast and without bubbles. This method guarantees a reliable throughput. The cover slipper MCS I can be directly connected to the stainer MAS. The modular design simplifies the step of manual hand over of the sample holders to full automation – also in times of small budgets. The combination uses a minimum of space.

The cover slipper MCS II offers a high turnover of up to 400 slides per hour regulated by a 7-step speed control. The system is applicable to microslide racks of different automated staining systems and can easily be integrated into the work flow of a routine laboratory.

Standard components	MCS I	MCS II
Basic instrument	■	■
Operation manual	■	■
8x slide holder (30 slides)	■	■
2x cover glass holder (50 and 60 mm)	■	■
2x carbon filter	■	■
1x embedding medium Pertex (bottle, 50 ml)	■	■
Mains cable	■	■

Specifications	MCS I	MCS II
Processing speed	300–500 slides/h	400 slides/h
Dispensing volume	30–150 µl	40–200 µl
Dimensions (width x depth x height)	630 x 670 x 640 mm	500 x 540 x 640 mm
Weight without accessories	65 kg	65 kg
Electrical parameters	100–240 V 50/60 Hz 500 VA	110–240 V 50/60 Hz 460 VA

MCS I	**Art. No. #14000000**
MCS II	**Art. No. #14000100**

SLEE
CUT 6062

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