

Product catalog 2009/2010

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.

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SLEE Medical an orgentec company

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tissue processors

- MTP · Robust carousel tissue processor
- MTM I/II · Histology Fast Tissue Processor

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. 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.

- 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
- Clear DURAN® glass reagent beakers
- Fume extraction system

Specifications

Dimensions (width x depth x height)	850 x 850 x 750 mm
Weight without accessories	80 kg
Glass Beakers Material Capacity	Glass DURAN®, holder, stop peg 2000 ml
Heated paraffin beakers Material Capacity	Stainless steel, double walled 2000 ml
Transport basket Material Capacity	Stainless steel 120 standard cassettes
Programming	10 programs Freely programmable
Electrical parameters	100–240 V, 50/60 Hz

Accessories

Perspex hood	#11000220
Glass beaker (DURAN®) (Specific gravure upon request)	#39500014
Heated paraffin beaker (stainless steel)	#39500019
Transport basket (stainless steel) incl. holder and lid	#39500027
Complete vacuum unit for paraffin beakers	#11000223
Twin basket	#11000221
Exhaust fan	#11000210
Exhaust fan including carbon filter	#11000211
Exchange carbon filter	#39500011

MTP Art. No. #11000200

Standard components

- Operation manual
- 10x glass beakers (DURAN®)
- 2x heated stainless steel paraffin beakers
- 1x stainless steel transport basket
- Capacity of 120 standard cassettes
- Mains cable

Tissue Processors

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

mtp

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 today 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

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 or 230 V, 50/60 Hz	

Two Functionalities –One Instrument

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



Intuitive control via 15" touch-screen

Accessories	MTM I & II
Cassette basket	#39600061
Holder for cassette basket	#39600062
Reagent container	#39600009
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



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 cold spot. The ergonomically elevated heated working area is illuminated with LED light and allows comfortable processing of specimen. All functions of the unit are controlled by an intuitive control panel. Two heated trays provide a pre-warming capacity of 80 cassettes and 200 embedding moulds.

- Manual lever and foot switch for paraffin dispenser
- Ergonomic hand rest
- Paraffin collection tray
- Paraffin container 3.3 liters
- Cold 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)	550 x 450 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

Tissue Processors

Embedding Centers

Microtomes

Cryostats

Floating Bath & Slide Warmer

Staining Systems

Cover Slipper

Cytocentrifuge



MPS/P2

Modular paraffin embedding center

The MPS/P2 features ease of operation, spacious works surfaces, 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.

MPS/P

- Ergonomic hand rest
- LED-illuminated working area
- Adjustable forceps holders
- Electrically heated forceps
- Only 340 W energy consumption
- Timer

MPS/W

- Preheating unit for 150 cassettes
- Intuitive control panel
- Only 220 W energy consumption

MPS/C

- Economic cooling plate
- Only 150 W energy consumption

Standard components	MPS/P	MPS/W MPS/WH	MPS/C
Heated paraffin (wax) container	■		
Heated dispenser element	■		
Heated cassette/mould storage		■	
Cooling plate			■
Heated working area	■		
Cooling spot	■		
Magnifying glass, adjustable	■		
Paraffin collection tray	■		
Working area illumination (LED)	■		
Operation manual	■	■	■

Specifications

Dimensions (width x depth x height)	
MPS/P	450 x 575 x 295 mm
MPS/W	300 x 575 x 295 mm
MPS/WH	300 x 575 x 295 mm
MPS/C	400 x 575 x 295 mm

Weight without accessories	
MPS/P	23 kg
MPS/W	13 kg
MPS/WH	13 kg
MPS/C	24 kg

Paraffin container	
MPS/P	5 liters

Heated cassette/ mold container	
MPS/W	Approx. 150 cassettes Approx. 500 moulds 30–80 °C programmable

MPS/WH	
	Approx. 250 cassettes Approx. 700 moulds 30–80 °C programmable

MPS/P2 Art. No. #10185000



MPS/WH

MPS/W

Accessories

Electrically heated forceps (2.5 mm)	#10196000
(1.25 mm)	#10196001
Timer	#10195000
Embedding center MPS/P	#10170000
Cooling plate MPS/C	#10175000
Preheating unit MPS/W	#10180000
Preheating unit MPS/WH (high)	#10180001
Base moulds (stainless steel)	
7 x 7 x 5 mm (12 pcs.)	#30030050
30 x 24 x 5 mm (12 pcs.)	#30030051
15 x 15 x 5 mm (12 pcs.)	#30030052
24 x 24 x 5 mm (12 pcs.)	#30030053
37 x 24 x 5 mm (12 pcs.)	#30030054
24 x 24 x 12 mm (12 pcs.)	#30030055
Metal lids for embedding cassettes (100 St.)	#30050100
Paraffin (56–58 °C)	
2 kg (bag)	#30010000
15 kg (bag)	#30010002

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. 10700001	Art. No. 10800001
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
Manual coarse advance via side handwheel	Motor coarse advance in 2 speeds	Variable cutting speed
Object orientation	Object orientation	Object orientation
Acoustic signal at end positions	Automatic stop function	Automatic stop function
Automatic retraction	Automatic motor retraction	Automatic motor retraction
Options		
Section counter, universal cassette clamp, standard object clamp (up to 50x50 mm), foil clamp, prisma set	Section counter, universal cassette clamp, standard object clamp (up to 50x50 mm), foil clamp, prisma set	Section counter, universal cassette clamp, standard object clamp (up to 50x50 mm), foil clamp, prisma set
Specifications		
500 D x 450 W x 285 H	500 D x 400 W x 285 H	500 D x 400 W x 285 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 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°



CUT 4062

The manual precision microtome

The SLEE CUT 4062 is a manual rotary microtome designed for paraffin sections and research-, plastic- and industrial applications. This robust instrument is highly service friendly and offers a superior precision sectioning.

- High precision specimen feed
- Comfortable trim function in 4 steps
- Hand wheel lock in each position
- Specimen retraction upon backstroke
- Trimming function in 4 steps
- Balanced hand wheel ensures ergonomic and safe sectioning
- Ergonomically located hand wheel for coarse advance
- Acoustic signal for end position of specimen movement

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 , free programmable
- Motorized advance / return of specimen
- Automatic advance in 2 speeds
- Specimen size up to 50 x 50 mm with standard object clamp or standard cassette size for universal cassette clamp
- Variable retraction
- Section counter
- Electric automatic stop function

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.

- motor drive
- individual or series cutting
- automatic advance in 2 speeds
- specimen final position selectable
- motorized cutting steplessly adjustable
- variable retraction
- section counter
- Speed for cutting and returning specimen can be adjusted separately

Specifications

Operating temperature range	+10 °C to +40 °C	
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 100–300 µm in 10-µm steps	
	Horizontal specimen advance	28 mm
	Vertical specimen stroke	60 mm
Specimen retraction on return stroke	CUT 4062 automatic	
	CUT 5062/CUT 6062 0–200 µm, selectable	
Dimensions (width x depth x height)	400 x 495 x 290 mm	
Weight (without accessories)	CUT 4062/CUT5062 33 kg	
	CUT 6062 34 kg	
Specimen orientation, horizontal	8°	
Specimen orientation, vertical	8°	
Specimen orientation, z-axis	360°	
Trimming thickness	CUT 4062 10 µm, 20 µm, 30 µm, 40 µm	
	CUT 5062/CUT 6062 0–300 µm	

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

Standard Knife Holder	#10900008
Disposable Blade Holder (low profile)	#10900009
Disposable Blade Holder (high profile)	#10900010
Universal-Cassette-Clamp, with orientation	#10900004
Universal-Cassette-Clamp, fixed	#10900005
Standard Object clamp, with orientation	#10900006
Standard Object clamp, fixed	#10900007
Super-Mega-Cassette Clamp, fixed	#10090021
Foil clamp	#10090016
Section counter (installed)	#10090020
Backlighting	#10090023
Organizer tray	#10090022
Prism (Set)	#10090017
Disposable blade (low profile; 50 pcs)	#28407000
Disposable blade (high profile; 50 pcs)	#28408000
Bench top quickfreezing unit MTR	#10110000

Microtome knife

Profile: A, B, C or D
Length: 10 to 40 cm

CUT 6062

Art. No. #10080001



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 low-cost microtome knife sharpener type MMS, is a valuable alternative and addition to our manufacturing program.

- 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

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
- Honing compound fine Bottle with 50 ml
- Honing compound coarse Bottle with 50 ml

Accessories

Honing compound coarse (50 ml)	#30012000
Honing compound fine (50 ml)	#30012001
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

MMS Art. No. #1020000



MTR

Bench top quickfreezing unit

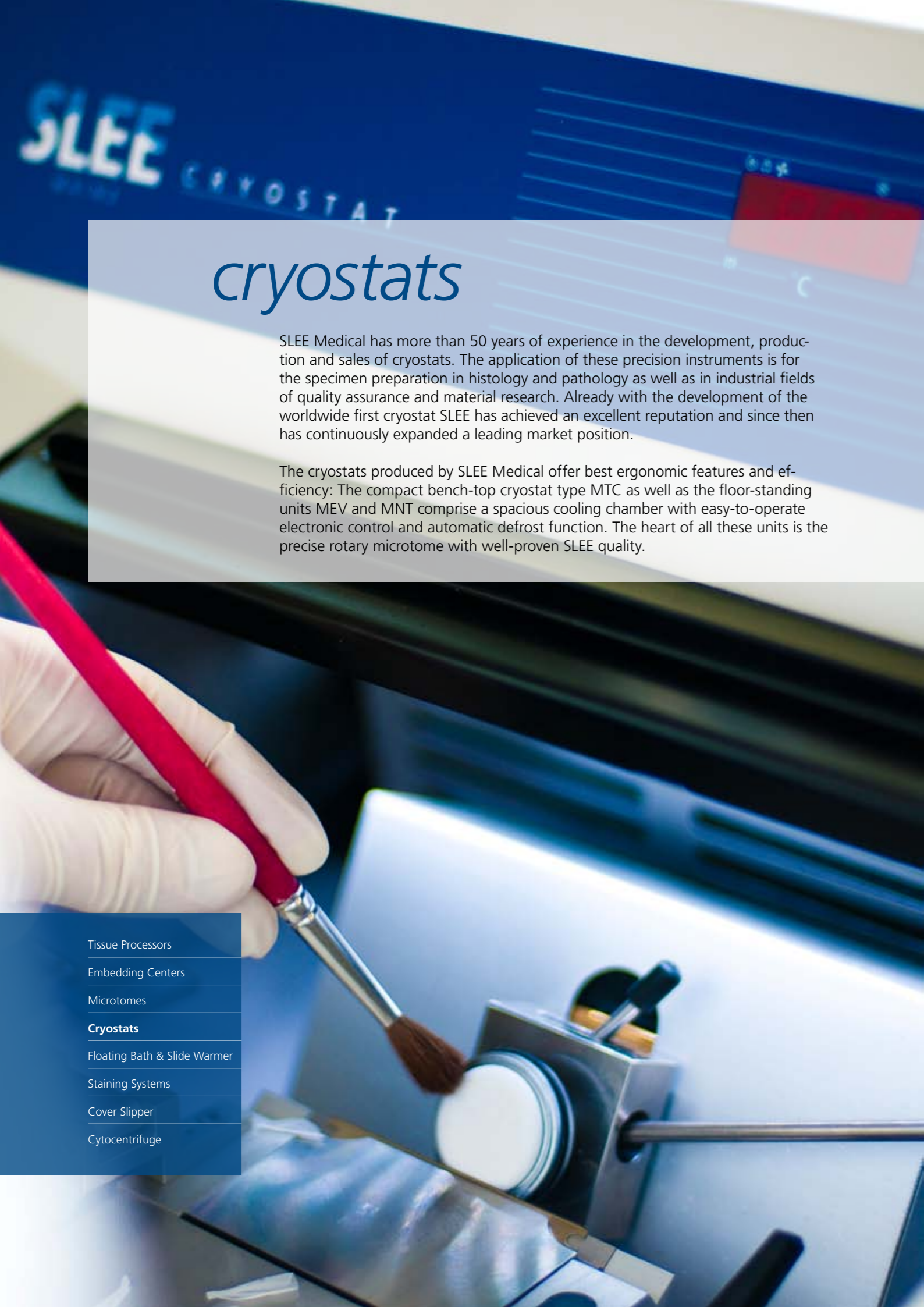
The fast cooling unit consists of a compressor cooling system with a flexible tube and a cooling block which can be adapted onto a standard object clamp of different kinds of microtomes.

- 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.

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

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	UV-C disinfection, 2 peltier driven quick freeze positions (-55 °C)	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	680 D x 770 W x 1,110 H	760 D x 750 W x 1,140 H
77 kg	110 kg	130 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 28 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 Cooling chamber with manual microtome

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.

- Full rotary microtome
- 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
- Height adjustable support stand

Standard Components

Basic instrument
Manual rotary microtome
Operation manual
2x Object holder (1x Ø 22mm; 1x Ø 35 mm)
Brush
Anti-roll plate
Ready to use
1x Bottle cryostat low temperature oil
1x Bottle GSV embedding medium
1 Box of disposable blades (50 pcs.) or 1 steel knife (12 cm C-profile)
Set of allen keys

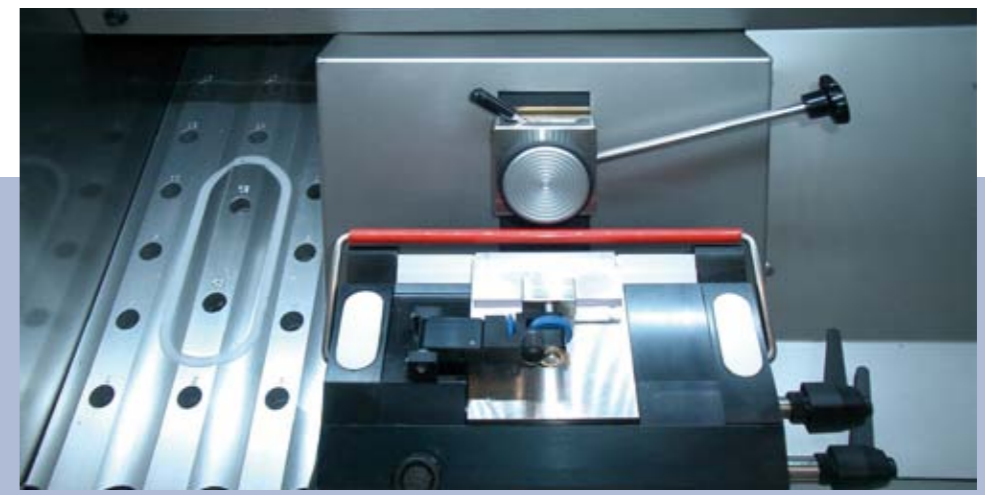
Accessories

Standard knife holder	#10146000
Disposable blade holder (low profile)	#10147000
Disposable blade holder (high profile)	#10148000
UV-C surface disinfection	#10169000
Object holder (Ø 22 mm; 5 pcs.)	#30000002
Object holder (Ø 35 mm; 5 pcs.)	#30000000
Cork plate (100 pcs; Ø 20 mm)	#30001001
Embedding medium GSV1 (125 ml)	#30001000
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
Stand for MTC	#10140001

Specifications

Operating temperature range	+10 °C to +25 °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	77 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



MEV Cooling chamber with semi-automatic rotary microtome

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
- Peltier shock-freezing positions
- UV-C disinfection
- Storage area for 24 specimen holders

Standard Components

Basic instrument
Semi-automatic rotary microtome
Operation manual
2x Object holders (1x \varnothing 22mm; 1x \varnothing 35 mm)
Brush
Anti-roll plate Ready to use
1x Bottle cryostat low temperature oil
1x Bottle GSV embedding medium
1 Box of disposable blades (50 pcs.) or 1 steel knife (16 cm C-profile)
Set of allen keys

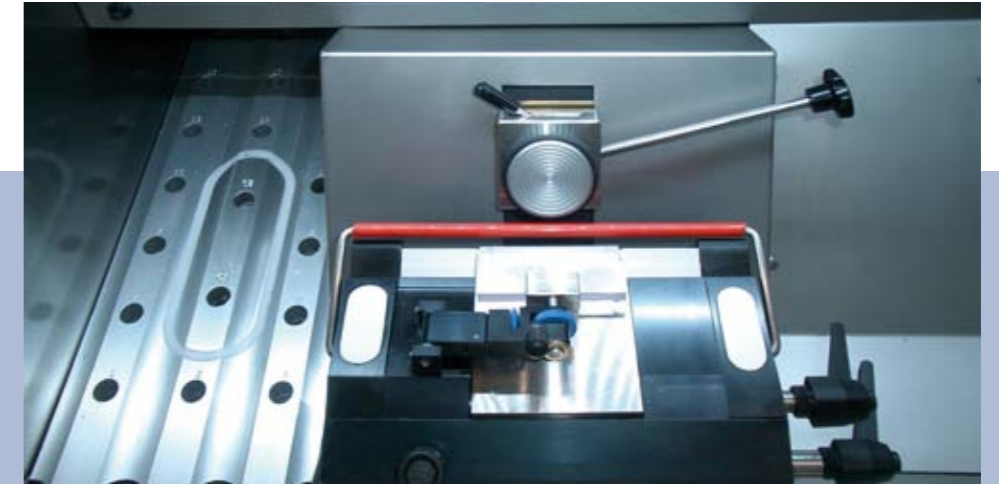
Specifications

Operating temperature range	+10 °C to +25 °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 on return stroke	0–200 μm ; selectable
Dimensions and weight	
(width x depth x height)	600 x 680 x 1130 mm
Weight (without accessories)	110 kg
Specimen orientation, horizontal	8°
Specimen orientation, vertical	8°
Specimen orientation, z-axis	360°
Trimming thickness	0–300 μm , freely programmable

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
Cutting counter	#10090020
Heat extractor	#33000316
Object holder (\varnothing 22 mm; 5 pcs.)	#30000002
Object holder (\varnothing 35 mm; 5 pcs.)	#30000000
Object holder (\varnothing 50 mm; 5 pcs.)	#30000003
Cork plate (100 pcs; \varnothing 20 mm)	#30001001
Embedding medium GSV1 (125 ml)	#30001000
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

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



MNT Cooling chamber with fully automatic rotary microtome

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

Standard Components	
Basic instrument	
Fully automatic microtome	
Operation manual	
2x Object holders (1x \varnothing 22mm; 1x \varnothing 35 mm)	
Brush	
Anti-roll plate Ready to use	
1x Bottle cryostat low temperature oil	
1x Bottle GSV embedding medium	
1 Box of disposable blades (50 pcs.) or 1 steel knife (16 cm C-profile)	
Set of allen keys	

Specifications	
Operating temperature range	+10 °C to +40 °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 on return stroke	0–200 μm ; selectable
Dimensions and weight (width x depth x height)	760 x 750 x 1140 mm
Weight (without accessories)	110 kg
Specimen orientation, horizontal	8°
Specimen orientation, vertical	8°
Specimen orientation, z-axis	360°
Trimming thickness	0–300 μm , freely programmable

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 (only for MNT)	#10167100
Cutting counter	#10090020
Heat extractor	#33000316
Object holder (\varnothing 22 mm; 5 pcs.)	#30000002
Object holder (\varnothing 35 mm; 5 pcs.)	#30000000
Object holder (\varnothing 50 mm; 5 pcs.)	#30000003
Cork plate (100 pcs; \varnothing 20 mm)	#30001001
Embedding medium GSV1 (125 ml)	#30001000
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 230 V, 50/60 Hz Art. No. #10160000
 MNT 115 V, 60 Hz Art. No. #10162000

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 aluminum bath surface provides best contrast to identify sections and is easy to clean. The highly efficient heat transfer allows low energy consumption of less than 65 W.

- Black aluminum bath
- Heating capacity approx. 65 W
- Stainless steel lid
- Integrated overheat security
- Bath fitted in outside wall
- Digital temperature display
- Temperature selection up to 100°C
- Comfortable, user friendly spout



Specifications

Bath contents	Approx. 3.5 liters
Dimensions (width x depth x height)	
Complete unit	275 x 415 x 90 mm
Water bath	265 x 325 x 65 mm
Weight	3 kg
Temperature range	RT to 100 °C
Heating output	65 W

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

MST

Slide warming unit

The SLEE stretching table MST is designed for stretching 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 less than 65 W.

- Scratch resistant black working surface
- Heating capacity approx. 65 W
- Integrated overheat security
- Digital temperature display
- Temperature selection up to 80°C



Specifications

Dimensions (width x depth x height)	
Complete unit	300 x 415 x 90 mm
Heated Plate	265 x 325 x 65 mm
Weight	3 kg
Temperature range	RT to 80 °C
Heating output	65 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

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. For high throughput purposes the system can be upgraded to continuous loading thereby increasing the turnover to up to 400 slides per hour.

Specifications

Dimensions (width x depth x height) 870 x 870 x 700 mm

Weight

without accessories 80 kg

Staining cuvettes

Material Stainless steel
Dimensions (width x depth x height) 150 x 50 x 120 mm
Capacity 400 ml

Transport basket

Material Stainless steel
Capacity 40 standard size micro slides

Programming

10 staining programs, freely programmable

Electrical parameters

100–240 V, 50/60 Hz

Standard components

	MSM/12	MSM/24
Basic instrument	■	■
Operation manual	■	■
12x staining cuvette (stainless steel)	■	
24x staining cuvette (stainless steel)		■
1x transport basket (stainless steel)	■	■
Capacity of 40 standard size micro slides		
Mains cable	■	■

Accessories

Perspex hood	#11000220
Staining cuvettes (Specific gravure upon request)	#38500000
Slide holder (40 slides)	#38500001
Continuous loading option	#12000255
Drying station	#12000256
Exhaust fan	#11000210
Exhaust fan including carbon filter	#11000211
Exchange carbon filter	#39500011

MSM/12 Art. No. #12000200

MSM/24 Art. No. #12000205

Tissue Processors

Embedding Centers

Microtomes

Cryostats

Floating Bath & Slide Warmer

Staining Systems

Cover Slipper

Cytocentrifuge



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 coloured 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 I		■		■

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:	44 4 loading stations 4 unloading stations 30 incubation stations with agitation 6 wash stations for running water
optional:	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	Art. No. #14000502
MAS With conveyer system for coverslipper MCS I	Art. No. #14000600
MAS With conveyer system for coverslipper MCS I and drying station	Art. No. #14000504

cover slipper

■ MCS I & II · Automated Coverslipper

MCS I & II Automated Coverslipper

The innovative cover slipping technology allows fast identification of single stainings as well as clear classification. 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 can be ideally used in combination with 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.



SLEE
MAINZ **mcs**



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

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 time	300–600 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	110–230 V 50/60 Hz 460 VA

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

Cellspin Cytocentrifuge



Cellspin is a cost-efficient alternative for monolayer cell preparation allowing for consistent performance and ease of use. The system is equipped with an open or closed rotor for up to 12 loading positions which can easily be removed for outside loading. Single or double sample chambers are available as disposable or reusable after suitable cleaning. For flexible use of the system a variety of sediment rotors are available on request.

Flexible choice and handling of rotors

- Cytocentrifugation open or closed (12 loading positions)
- Easily removable rotor for outside loading
- Wide variety of rotors available (sediment, cytocentrifuge)

Competitively priced consumables

- Single and double cellfunnels (reusable or disposable)
- Large volume Ecofunnels (reusable or disposable)
- Absorption pads
- Cytocentrifugation Slides

Easy and safe handling

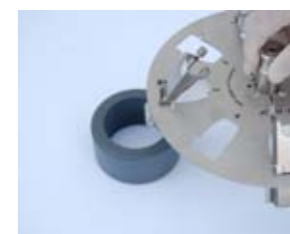
- Convenient preparation
- Slide clips applicable to reusable and disposable funnels
- Slide label readable at any time
- Indication of the RCF during centrifugation

Cellfunnel reusable	#39910000 (12 pcs.)
Cellfunnel disposable	#39910004 (100 pcs.)
	#39910005 (500 pcs.)
Filtercards for Cellfunnel reusable	#39910001 Standard (200 pcs.)
for samples less 0.4 ml (200 pcs.)	#39910006 Thin
Cellslides Single circle uncoated	#39910002 (100 pcs.)
Cellslides Single circle coated	#39910003 (100 pcs.)
Double Cellfunnel reusable	#39910010 (12 pcs.)
Double Cellfunnel disposable, offset	#39910014 (100 pcs.) #39910015 (500 pcs.)
Filtercards for Double Cellfunnel reusable	#39910011 (500 pcs.)
Cellslides Double circle uncoated	#39910012 (100 pcs.)
Cellslides Double circle coated	#39910013 (100 pcs.)
Cellslides Double circle, offset	#39910016 (100 pcs.)
Only for Double Cellfunnel disposable !	
Ecofunnel reusable	#39910020 (12 pcs.)
Ecofunnel disposable, offset	#39910023 (100 pcs.) #39910024 (500 pcs.)
ECOseal for Ecofunnel	#39910021 (100 pcs.)
ECOSlides coated	#39910022 (100 Pcs.)
Cellclip for Cellcliprotor	#39910031 (1 pcs.)

Specifications	Cellspin I	Cellspin II
Cellfunnel capacity	Single 0.5 ml per chamber Double 0.5 ml per chamber ECOfunnel 5 ml per chamber	
Rotor slide capacity	Up to 12	
Applicable rotors	Cellcliprotor (cytocentrifugation) Swing-out rotors (Different sizes) Fixed angle rotors (Different sizes)	
Centrifuge operation	Up to 6,000 rpm, programmable, Timer 0-99 min.	Up to 15,000 rpm, programmable, Timer 0-99 min. Selectable deceleration speeds Program memory (10 progr.) Refrigeration to -20 °C (optional)
Dimensions (H x W x D)	257 x 366 x 430 mm	346 x 395 x 520 mm
Weight	24 kg	29 kg (without cooling)
Electrical parameters	200-240 V / 50-60 Hz	200-240 V / 50-60 Hz
Safety	Automatic rotor recognition Lid locking and holding IEC 1010 conform	Automatic rotor recognition Lid locking and holding Imbalance switch-off Motor overheating protection IEC 1010 conform



Cellclip



Standard components	Cellspin I Open rotor	Cellspin I Closed rotor	Cellspin II Open rotor	Cellspin II Closed rotor
Basic instrument	■	■	■	■
Operation manual	■	■	■	■
Cellcliprotor, open (12 positions)	■		■	
Cellcliprotor, closed (12 positions)		■		■
12x Cellclip (stainless steel)	■	■	■	■
12x Cellfunnel reusable	■	■	■	■
Filter cards for Cellfunnel reusable #39910001 Standard (200 St.)	■	■	■	■
Electric cable	■	■	■	■



Closed cellcliprotor

Cellspin I Open rotor	Art. No. #15500000
Cellspin I Closed rotor	Art. No. #15500001

Open rotor, optional cooling unit	Closed rotor, optional cooling unit
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Service

SLEE Medical strives to provide first class care and support to its customers across the globe. We offer reliable and fast field service. Service calls outside Germany should be directed through your local SLEE Medical distributor. In order to process your inquiries in time, please always include the following information:

- User name
- Address
- Phone number
- Email
- Instrument type
- Instrument serial number
- Purchase date
- Detailed case description

Service Hotline **+49 6131 95871-13**
Service Email **mail@sleemainz.com**

Service and application training

Well trained staff is prerequisite for timely service and high quality. SLEE therefore offers frequently service and application trainings. Visit www.sleemainz.com to access the training schedule and download the registration form.

Training registration

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