

**SLEE** medical

# Product Catalog

SLEE – Your partner in high precision and innovation

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

DESIGN AND MANUFACTURING  
MADE IN GERMANY



*SLEE – Your partner in  
high precision and innovation*



SLEE medical supplies a broad product range for equipping histo-pathological laboratories in routine and reasearch. 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](http://www.slee.de)

SLEE medical GmbH

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# Tissue Processors

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

## Tissue Processors

Embedding Centers

Microtomes

Cryostats

Water Bath & Slide Warmer

Staining Systems

Cover Slipper

Cytocentrifuge



# 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
- System status monitor
- Password protection
- Intuitive control panel
- Delayed start function

### Accessories

<b>Fume hood</b> for MTP / MSM (perspex)	#11000220
<b>Aluminum reagent beaker</b>	#11000229
<b>Plastic reagent beaker</b>	#11000251
<b>Heated paraffin beaker</b> (aluminum)	#11000252
<b>Transport basket</b> (stainless steel) incl. holder and lid	#11000253
<b>Vacuum unit (paraffin)</b> for units with two paraffin beakers	#11000223
<b>Vacuum unit (paraffin)</b> for unit with three paraffin beakers	#11000224
<b>Vacuum unit (reagent &amp; paraffin)</b> for unit with two paraffin beakers	#11000225
<b>Vacuum unit (reagent &amp; paraffin)</b> for unit with three paraffin beakers	#11000226
<b>Remote alarm module</b>	#11000271
<b>Transport basket</b> (stainless steel)	#11000256
Extension <b>Twin basket</b> for MTP	#11000221
<b>Exhaust fan</b> including carbon filter	#11000211
<b>Exchange carbon filter</b>	#11000254
<b>Organizer cartridge</b>	#11000255

### Specifications

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

### Standard components

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

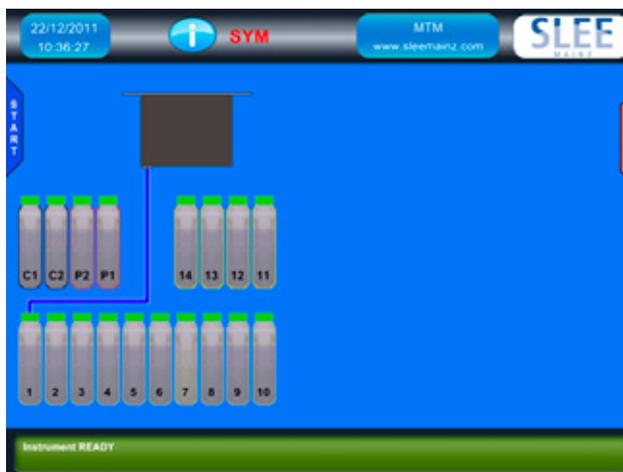
The innovative and patented enhanced heat exchanger (EHE) allows fastest non-microwave tissue processing today available.

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

Accessories	MTM I & II
<b>Cassette basket</b>	#39600061
<b>Holder for cassette basket</b>	#39600062
<b>Reagent container</b>	#39600030
<b>Refill Pack Active Carbon</b>	#39600268
<b>UPS 230 V - 1500 VA - 1200 W</b>	#11000510
<b>UPS 230 V - 1500 VA - 1760 W</b>	#11000504
<b>Remote alarm module</b>	#11000270
<b>Printer</b>	#11000506

<b>MTM I 230 V, 50/60 Hz</b> Histology vacuum tissue processor	<b>Art. No. #11000500</b>
<b>MTM II 230 V, 50/60 Hz</b> Histology fast vacuum tissue processor	<b>Art. No. #11000600</b>
<b>MTM I 115 V, 50/60 Hz</b> Histology vacuum tissue processor	<b>Art. No. #11000501</b>
<b>MTM II 115 V, 50/60 Hz</b> Histology fast vacuum tissue processor	<b>Art. No. #11000601</b>

# 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

Water 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 litres 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 litres 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
- Electrically heated forceps (optional)

### 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

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

MPS/P1 230 V, 50/60 Hz

Art. No. #10190000

MPS/P1 115 V, 50/60 Hz

Art. No. #10192000



# 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
- Programmable working hours
- Easily adjustable forceps holders
- 5 litres paraffin container
- Spacious and heated paraffin collection tray
- Working area with adjustable LED-illumination and integrated cold spot
- Electrically heated forceps (optional)

**MPS/P2 230V 50/60 Hz**

**Art. No. #10185000**

**MPS/P2 115V 50/60 Hz**

**Art. No. #10187000**

### Standard components

Dispensing module MPS/P

Prewarming unit MPS/W or MPS/WH

Cooling unit MPS/C

Foot switch for paraffin dispenser

Forceps holder

2x forceps (1x blunt, 1x pointed)

Cleaning spatula black

Base moulds 7 x 7 x 7 mm, 12 pcs., stainless steel

Base moulds 24 x 24 x 7 mm, 12 pcs., stainless steel

Mains cable

Operation manual



# MPS/P

## Dispensing module

### Accessories

<b>Electrically heated forceps (2.5 mm)</b>	#10196000
<b>Electrically heated forceps (1.25 mm)</b>	#10196001
<b>Base moulds (stainless steel)</b> 7 mm x 7 mm x 7 mm (12 pcs.)	#30030050
<b>Base moulds (stainless steel)</b> 30 mm x 24 mm x 7 mm (12 pcs.)	#30030051
<b>Base moulds (stainless steel)</b> 15 mm x 15 mm x 7 mm (12 pcs.)	#30030052
<b>Base moulds (stainless steel)</b> 24 mm x 24 mm x 7 mm (12 pcs.)	#30030053
<b>Base moulds (stainless steel)</b> 37 mm x 24 mm x 7 mm (12 pcs.)	#30030054
<b>Base moulds (stainless steel)</b> 33 mm x 24 mm x 12 mm (6 pcs.)	#30030056
<b>Paraffin (54–56 °C)</b> (20 kg bag)	#30010002

### Specifications

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

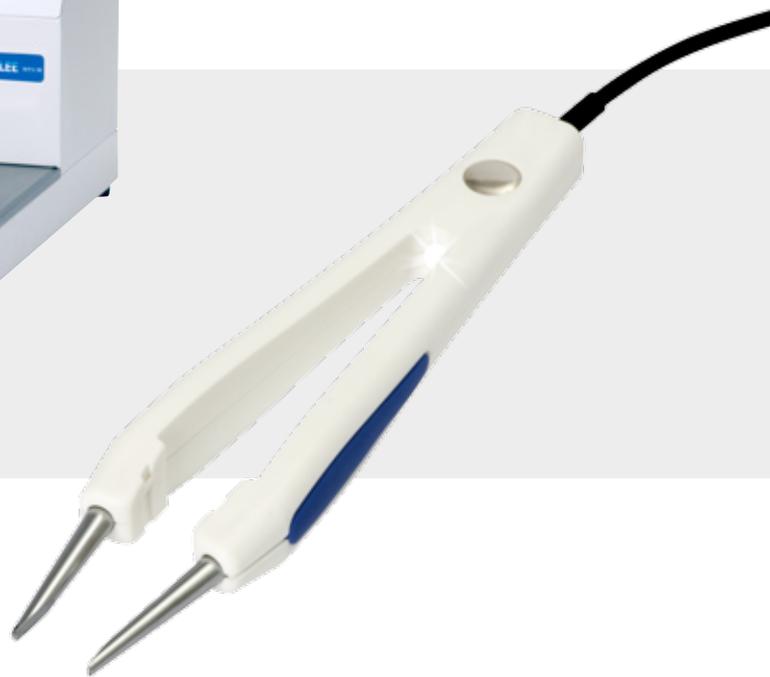
<b>MPS/P 230V 50/60 Hz</b>	<b>Art. No. #10170000</b>
<b>MPS/P 115V 50/60 Hz</b>	<b>Art. No. #10172000</b>



MPS/W



MPS/WH



# MPS/W and MPS/WH

## Prewarming unit

## Electrically Heated Forceps

### Specifications

<b>Temperature range</b>	up to 80 °C (1 °C increments) for working area
<b>Cassette bath</b>	Capacity 150 cassettes, removable  <b>MPS/W</b> 250 x 260 x 32 mm  <b>MPS/WH</b> 250 x 260 x 48 mm
<b>Control</b>	microprocessor, programming of temperature, working day, working time, time, date
<b>Mold warmer</b>	Capacity 500 molds 260 x 220 x 71 mm
<b>Dimensions</b> (width x depth x height)	300 x 570 x 295 mm
<b>Weight</b>	15 kg
<b>Power</b>	230 V, 50/60 Hz
<b>Consumption</b>	P <sub>max</sub> : 320 W
<b>Temperature</b>	18–35 °C, air conditioned room recommended
<b>Humidity</b>	< 60 %

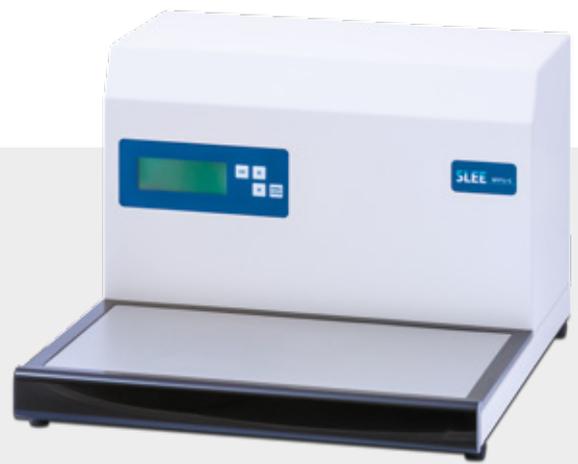
- Electrically Heated Forceps
- Ergonomic Design
- Highly precise temperature control
- Hygienic chromium plating
- Integrated LED Light for optimum illumination of work space
- Integrated connection in MPS/P1 and MPS/P

### Specifications

<b>Temperature range</b>	60 °C ± 2°C
<b>Tip material</b>	brass, hygienic chromium plating
<b>Tip width</b>	2.5 mm (Art. No. #10196000) 1.25 mm (Art. No. #10196001)
<b>Illumination</b>	LED, integrated
<b>Weight</b>	120 g
<b>Power</b>	24 V
<b>Consumption PN</b>	2 W

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

Electrically heated forceps (2.5 mm)	Art. No. #10196000
Electrically heated forceps (1.25 mm)	Art. No. #10196001
Heated forceps (2.5 mm) incl. power supply	Art. No. #10196010
Heated forceps (1.25 mm) incl. power supply	Art. No. #10196011



# MPS/C and MPS/CX

## Cooling unit

### Specifications

<b>Temperature range</b>	min. -15 °C (1 °C increments)
<b>Max. capacity</b>	<p><b>MPS/C</b> 50 to 80 cassettes</p> <p><b>MPS/CX</b> 75 to 120 cassettes</p>
<b>Control</b>	microprocessor, programming of temperature, working day, working time, time, date
<b>Work area</b>	<p><b>MPS/C</b> 370 x 270 mm</p> <p><b>MPS/CX</b> 570 x 270 mm</p>
<b>Dimensions</b> (width x depth x height)	<p><b>MPS/C</b> 400 x 570 x 295 mm</p> <p><b>MPS/CX</b> 600 x 570 x 295 mm</p>
<b>Weight</b>	<p><b>MPS/C</b> 25 kg</p> <p><b>MPS/CX</b> 36 kg</p>
<b>Electrical parameters</b>	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 %

### Accessories

**Hood for coolplate MPS/C** (perspex)

#10175100



*Cold plate MPS/C with hood*

**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

Water Bath & Slide Warmer

Staining Systems

Cover Slipper

Cytocentrifuge

# Overview



CUT 4062	CUT 5062	CUT 6062
Art. No. 10065000	Art. No. 10070001	Art. No. 10080001
<b>Manual precision microtome</b>	<b>Semi-automatic precision microtome</b>	<b>Fully automatic precision microtome</b>
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 10; 20; 30; 40 µm	Motor trimming function, 0 – 750 µm	Motor trimming function, 0 – 750 µm
Ergonomically located coarse feed wheel		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
<b>Options</b>		
Section counter, universal cassette clamp, standard object clamp (up to 50 x 50 mm), foil clamp, prism set	Universal cassette clamp, standard object clamp (up to 50 x 50 mm), foil clamp, prism set	Universal cassette clamp, standard object clamp (up to 50 x 50 mm), foil clamp, prism set
<b>Specifications</b>		
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
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 – 450 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

## 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 hand wheel
- Hand wheel lock in each position
- Trimming function in 4 steps (10, 20, 30, 40  $\mu\text{m}$ )
- 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 750  $\mu\text{m}$ , 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 100 – 240 V, 50/60 Hz

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 750  $\mu\text{m}$ , 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 100 – 240 V, 50/60 Hz

Art. No. #10080001

Specifications	
<b>Section thickness setting range</b>	<b>CUT 4062</b> 0.5 – 60 µm  <b>CUT 5062/CUT 6062</b> 0.5 – 100 µm
<b>Section thickness selection</b>	<b>CUT 4062</b> 0.5 – 2 µm in 0.5-µm steps 2 – 10 µm in 1-µm steps 10 – 60 µm in 2-µm steps  <b>CUT 5062/CUT 6062</b> 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
<b>Trimming thickness</b>	<b>CUT 4062</b> 10 µm, 20 µm, 30 µm, 40 µm  <b>CUT 5062/CUT6062</b> 0.5 – 750 µm
<b>Specimen feed</b>	<b>CUT 4062</b> 28 mm (via coarse feed wheel)  <b>CUT 5062/CUT 6062</b> 28 mm (step motor) 75 / 150 / 300 / 600 & 3000 µm/s
<b>Specimen feed memory</b>	<b>CUT 5062/CUT 6062</b> 2 positions programmable
<b>Vertical specimen stroke</b>	60 mm
<b>Sectioning speed</b>	<b>CUT 6062</b> 3 – 450 mm/s, selectable via slider
<b>Section window</b>	<b>CUT 6062</b> 4 sizes selectable
<b>Specimen retraction</b>	<b>CUT 4062</b> automatic On return stroke  <b>CUT 5062/CUT 6062</b> 0 – 200 µm, selectable
<b>Specimen orientation, horizontal</b>	8°
<b>Specimen orientation, vertical</b>	8°
<b>Specimen orientation, z-axis</b>	360°
<b>Section counter</b>	<b>CUT 4062</b> Strokes (optional)  <b>CUT 5062/CUT 6062</b> Strokes / Distance
<b>Dimensions</b> (width x depth x height)	480 x 610 x 350 mm incl. handwheel and waste tray
<b>Weight</b> without accessories	<b>CUT 4062/CUT5062</b> 33 kg  <b>CUT 6062</b> 34 kg

Standard components	CUT 4062	CUT 5062	CUT 6062
Basic instrument	■	■	■
Object orientation	■	■	■
Universal cassette clamp, with orientation or standard object clamp	■	■	■
3-component disposable blade holder (low and high profile blades) or standard knife holder	■	■	■
Waste tray	■	■	■
Disposable blade (low profile; 50pcs.)	■	■	■
Foot switch for motor drive			■
Operation Manual	■	■	■
Dust cover	■	■	■

Accessories	
External control panel CUT 5062	#10090050
External control panel CUT 6062	#10090051
Foot control element CUT 5062 / CUT 6062	#10090052
Magnifier with illumination	#10090060
3-component disposable blade holder (tungsten carbide blades)	#10090041
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	#10090025
Section counter for CUT 4062 (installed)	#10090020
Dissection needle	#30030095
Prism (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: C or D, Length: 10 to 20 cm	



## CUT

### External control panel

- **Intuitive Use** of panel due to identical button design and layout
- **Safe Workflow** allows control of microtome functions at distance from blade and moving parts
- **Ergonomic Design** ensures fatigue free working
- Free Placement for **right and left handed use** of fully motorized microtome versions

External control panel CUT 5062

Art. No. #10090050

External control panel CUT 6062

Art. No. #10090051

## 3-component- disposable-blade-holder

- **High Precision** lateral adjustment of blade ensures that the entire width of the blade edge can be used
- **Extra Safety** finger protection guard engaged throughout processing (exchange of blade, lateral displacement, trimming, cutting)
- **Multiple Functionality** allows use of low and high profile disposable blades with the same holder
- **Easy Operation** for blade changing by special release mechanics and cutting angle setting by separate middlepiece
- **Durable Designed** blade clamping system
- **Hygienic Levers** made of high-grade steel

3-component-disposable-blade-holder

Art. No. #10090040



## Magnifier with Illumination

When miniature samples need to be precisely processed, attention to detail is vital. The illuminated magnifier directly mounted to the microtome basis is the perfect accessory to meet these requirements.

- Rotatable and adjustable through metal flexible tube
- Lens (Dimensions Ø 72 mm lens; diopters: 6)
- Light source: 63x light-emitting diode (LED), neutral white, dimmer
- Electrical parameters: 100 – 240 V; 50/60 Hz



Magnifier with illumination

Art. No. #10090060

## 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

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

MTR 230V, 50/60 Hz

Art. No. #10110000

MTR 115V, 50/60 Hz

Art. No. #11000002

# 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**

Water Bath & Slide Warmer

Staining Systems

Cover Slipper

Cytocentrifuge



# Overview



MEV	MNT
Art. No. 10150000	Art. No. 10160000
<b>Floorstanding ECO-cryostat</b>	<b>Floorstanding high-end-cryostat</b>
Exchangeable standard knife or disposable blade holder	Exchangeable standard knife or disposable blade holder
Motor trimming function, 0 – 300 µm	Motor trimming function, 0 – 300 µm
Motor coarse advance in 2 speeds	Variable cutting speed
Object orientation	Object orientation
Actively cooled 24 position specimen storage	Actively cooled 24 position specimen storage
Power saving mode	Power saving mode
Automatic motor retraction	Automatic motor retraction
<b>Options</b>	
UV-C disinfection, 2 peltier driven quick freeze positions (-55°C), specimen cooling (-45°C)	UV-C disinfection, 2 peltier driven quick freeze positions (-55 °C), specimen cooling (-45 °C),
<b>Specifications</b>	
760 D x 680 W x 1110 H	760 D x 750 W x 1110 H
127 kg	154 kg
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
Vertical stroke 58 mm	Vertical stroke 58 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 holders 22 and 35 mm Ø with grip protection	Specimen holders 22 and 35 mm Ø with grip protection
Cooling capacity -35 °C	Cooling capacity -35 °C



# MEV

## Floorstanding ECO cryostat

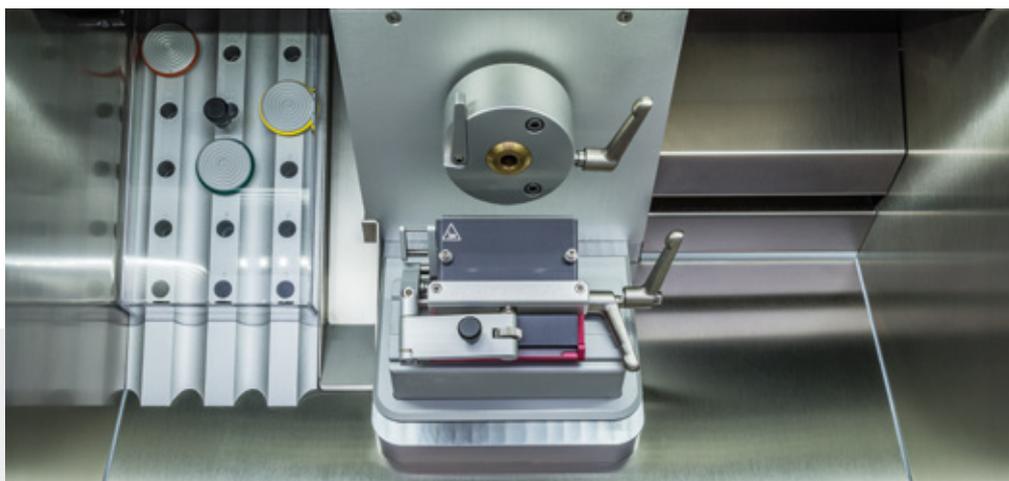
The model MEV features convenient operation and a modern rotary microtome. The space-saving design still has a large stainless steel chamber, an effective freeze bar with 24 positions and a chamber temperature to  $-35\text{ }^{\circ}\text{C}$ .

- Modern rotary microtome with motorized  $\mu\text{m}$  advance/return
- Large anti-roll plate
- Heated viewing window (glass, electrically, conductive coating, transparent)
- Intuitive electronic control panel
- Automatic defrost
- 2x Shock freezing positions (optional)
- UV-C disinfection (optional)
- Object cooling (optional)
- Storage area for 24 specimen holders

### Standard Components\*

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

\* Either standard knife holder or disposable blade holder is included in standard components



MEV Cooling chamber with semi-automatic rotary microtome

## Specifications

<b>Cryochamber temperature</b>	0 °C to -35 °C
<b>Section thickness setting range</b>	0.5 – 100 µm
<b>Section thickness selection</b>	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
<b>Trimming thickness</b>	0.5 – 300 µm, freely programmable
<b>Horizontal specimen advance</b>	28 mm
<b>Vertical specimen stroke</b>	58 mm
<b>Specimen retraction</b>	0 – 200 µm; selectable on return stroke
<b>Specimen orientation, horizontal</b>	8°
<b>Specimen orientation, vertical</b>	8°
<b>Specimen orientation, z-axis</b>	360°
<b>Dimensions</b> (width x depth x height)	750 x 760 x 1110 mm
<b>Weight</b> without accessories	154 kg

## 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 230 V, 50/60 Hz	#10164000
Object cooling 115 V, 50/60 Hz	#10164200
Debris extraction system	#10167000
Section waste cloth	#30000015
Object holder (Ø 22 mm; 5 pcs.)	#30000002
Object holder (Ø 28 mm; 5 pcs.)	#30000017
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

\* Either standard knife holder or disposable blade holder is included in standard components

MEV 230 V, 50/60 Hz

Art. No. #10150000

MEV 115 V, 60 Hz

Art. No. #10153000



# 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  $\mu\text{m}$  advance/return
- Cutting motor with adjustable speed
- Large anti-roll plate
- Heated viewing window (glass, electrically conductive coating, transparent)
- Intuitive control panel
- Automatic defrost
- Storage area for 24 specimen holders
- 2x Shock freezing positions (optional)
- UV-C disinfection (optional)
- Object cooling (optional)

### Standard Components

Basic instrument

Semi-automatic rotary microtome

Anti-roll plate, ready to use

Object holders  
(5x  $\varnothing$  22 mm; 5x  $\varnothing$  35 mm)

1x Heat extractor

1x Rack for object holders (stainless steel)

Brush

1 Box of disposable blades (50 pcs.)  
or 1 steel knife (16 cm C-profile)

1x CryoGlue embedding medium (1x 125 ml)

1x Bottle cryostat low temperature oil

Set of allen keys

Operation manual

Mains cable



*MNT Cooling chamber with fully automatic rotary microtome*

## Specifications

<b>Cryochamber temperature</b>	0 °C to -35 °C
<b>Section thickness setting range</b>	0.5 – 100 µm
<b>Section thickness selection</b>	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
<b>Trimming thickness</b>	0.5 – 300 µm, freely programmable
<b>Horizontal specimen advance</b>	28 mm
<b>Vertical specimen stroke</b>	58 mm
<b>Sectioning speed</b>	20 – 300 mm/s, selectable
<b>Specimen retraction</b>	0 – 200 µm; selectable on return stroke
<b>Specimen orientation, horizontal</b>	8°
<b>Specimen orientation, vertical</b>	8°
<b>Specimen orientation, z-axis</b>	360°
<b>Dimensions</b> (width x depth x height)	750 x 760 x 1110 mm
<b>Weight</b> without accessories	154 kg

## 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 230 V, 50/60 Hz	#10164000
Object cooling 115 V, 50/60 Hz	#10164200
Debris extraction system	#10167000
Section waste cloth	#30000015
Object holder (Ø 22 mm; 5 pcs.)	#30000002
Object holder (Ø 28 mm; 5 pcs.)	#30000017
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

**MNT 230 V, 50/60 Hz**

**Art. No. #10160000**

**MNT 115 V, 60 Hz**

**Art. No. #10162000**

# Water Bath & Slide Warmer

- slidetec WATER/HEAT
- slidetec HEAT
- slidetec WATER

Water bath & Slide warmer  
Slide warmer  
Water bath



Tissue Processors

Embedding Centers

Microtomes

Cryostats

**Water Bath & Slide Warmer**

Staining Systems

Cover Slipper

Cytocentrifuge

# slidetec

## WATER/HEAT

The SLEE waterbath and slide warmer combination slidetec WATER/HEAT is designed for stretching of paraffin sections and subsequently drying and baking these on microslides. It combines functional design with safety and ergonomic features that improve process reliability and convenient use. With slidetec HEAT and slidetec WATER also the single units are available.

- **EASY WORK** Ergonomic oriented and spacious drying area for slides
- **EASY VIEW** Integrated water bath illumination
- **EASY CLEAN** Separable glass water bath
- **EASY SAFE** Overheat protection
- **EASY PRECISION** Microprocessor thermostat control
- **EASY EFFICIENCY** Programmable Working hours



Specifications	
Capacity water bath	2 litres
Capacity slide warmer	30 slides
Dimension (width x depth x height)	370 x 560 x 230 mm
Weight	18 kg
Temperature range	RT to 60 °C
Electrical parameters	115 or 240 V; 50/60 Hz
Consumption	<b>600 W</b>

- slidetec WATER/HEAT 230 V, 50/60 Hz Art. No. #13000500
- slidetec WATER/HEAT 115 V, 50/60 Hz Art. No. #13000501



# slidetec

## WATER

Specifications	
Capacity water bath	2 litres
Dimension (width x depth x height)	350 x 370 x 230 mm
Weight	10 kg
Temperature range	RT to 60 °C
Electrical parameters	115 or 240 V; 50/60 Hz
Consumption	<b>300 W</b>

- slidetec WATER 230 V, 50/60 Hz Art. No. #13000520
- slidetec WATER 115 V, 50/60 Hz Art. No. #13000521



# slidetec

## HEAT

Specifications	
Capacity slide warmer	30 slides
Dimension (width x depth x height)	350 x 370 x 230 mm
Weight	15 kg
Temperature range	RT to 60 °C
Electrical parameters	115 or 240 V; 50/60 Hz
Consumption	<b>300 W</b>

- slidetec HEAT 230 V, 50/60 Hz Art. No. #13000510
- slidetec HEAT 115 V, 50/60 Hz Art. No. #13000511

# Staining Systems

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

Tissue Processors

Embedding Centers

Microtomes

Cryostats

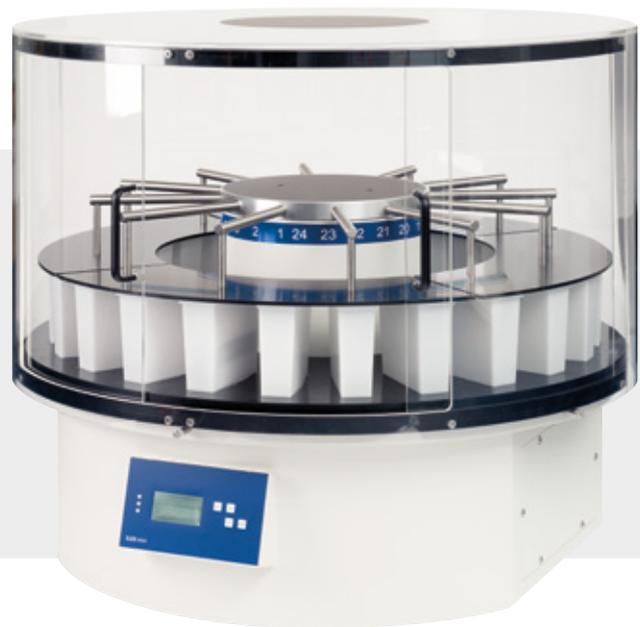
Water Bath & Slide Warmer

**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 24 incubation stations that contain up to 400 ml. The Flex-programming option allows different protocols while utilizing the same reagents. 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
- <sup>FLEX</sup>Programming
- System status monitor
- Password protection
- Intuitive control panel

### Specifications

<b>Staining cuvettes</b>	
Material	plastic
Dimensions (width x depth x height)	130 x 40 x 135 mm
Capacity	400 ml
<b>Transport basket</b>	
Material	plastic
Capacity	30 standard size micro slides
<b>Programming</b>	20 staining programs, freely programmable
<b>Dimensions</b> (width x depth x height)	870 x 870 x 750 mm
<b>Weight</b> without accessories	80 kg
<b>Electrical parameters</b>	100 – 240 V, 50/60 Hz

### Standard components

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

### Accessories

<b>Perspex hood</b>	#11000220
<b>Staining cuvettes</b>	#12000260
<b>Slide holder</b> (30 slides)	#38500051
<b>Twin option</b>	#12000221
<b>Drying station</b>	#12000256
<b>Exhaust fan</b>	#11000210
<b>Exhaust fan</b> including carbon filter	#11000211
<b>Exchange carbon filter</b>	#39500011

MSM/24 100 – 240 V, 50/60 Hz

Art. No. #12000205



# 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 I		■		■

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

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

# Cover Slipper

■ MCS I & II · Automated Coverslipper

**SLEE**  
MAINZ

**mcs**

Operation Menu  
Prog.: 2 Cycle: 10 s  
PRCG. SP OFF  
SETUP FILL-UP  
CLR: BACK TO HP

POWER START RESTART STOP FINGER

ENTER CLEAR A

Tissue Processors

Embedding Centers

Microtomes

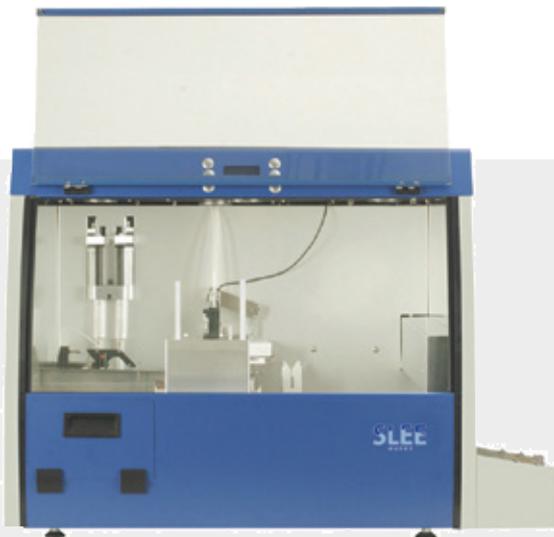
Cryostats

Water 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 coverslipppers 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
<b>Processing speed</b>	300 – 500 slides/h	400 slides/h
<b>Dispensing volume</b>	30 – 150 µl	40 – 200 µl
<b>Dimensions</b> (width x depth x height)	630 x 670 x 640 mm	500 x 550 x 680 mm
<b>Weight</b> without accessories	65 kg	65 kg
<b>Electrical parameters</b>	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



# CS Centrifuge

## Cytocentrifuge

CS Centrifuge 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 cytologyfunnels (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

### Accessories CS Centrifuge I & II

Cytologyfunnel reusable	#39910000 (12 pcs.)
Cytologyfunnel disposable	#39910004 (100 pcs.) #39910005 (500 pcs.)
Filtercards for Cytologyfunnel reusable	#39910001 Standard (200 pcs.) #39910006 Thin
Cellslides Single circle uncoated	#39910002 (100 pcs.)
Cellslides Single circle coated	#39910003 (100 pcs.)
Double Cytologyfunnel reusable	#39910010 (12 pcs.)
Double Cytologyfunnel disposable, offset	#39910014 (100 pcs.) #39910015 (500 pcs.)
Filtercards for Double Cytologyfunnel 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 Cytologyfunnel 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.)

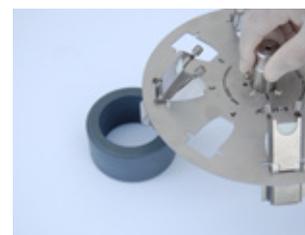
Specifications	CS Centrifuge I	CS Centrifuge II
Cytologyfunnel capacity	Single 0.5 ml per chamber Double 0.5 ml per chamber ECOfunnel 5 ml per chamber	
Rotor slide capacity	Up to 12	
Applicable rotors	Cellcliprotor (cytocentrifugation) Swing-out rotors (Different sizes) Fixed angle rotors (Different 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



CS Centrifuge I  
with open hood



Cellclip



Open cellcliprotor



Closed cellcliprotor

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

<b>CS Centrifuge I</b> Open rotor	<b>Art. No. #15500000</b>
<b>CS Centrifuge I</b> Closed rotor	<b>Art. No. #15500001</b>

<b>CS Centrifuge II</b> Open rotor, optional cooling unit	<b>Art. No. #15500100</b>
<b>CS Centrifuge II</b> Closed rotor, optional cooling unit	<b>Art. No. #15500101</b>

# 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
- E-mail
- Instrument type
- Instrument serial number
- Purchase date
- Detailed case description

Service Hotline **+49 6131 95871-0**

Service E-mail **service@slee.de**

## **Service and application training**

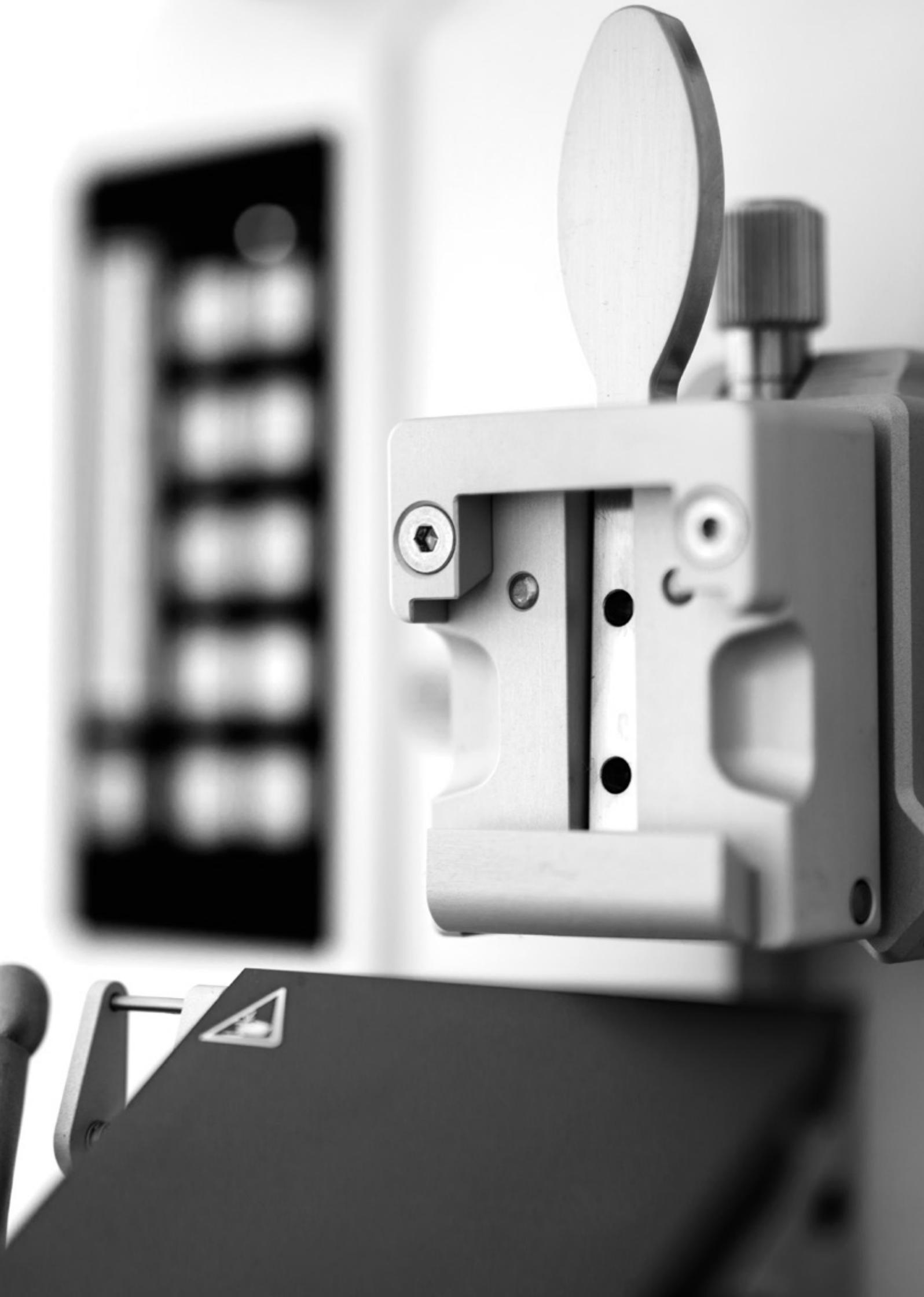
Well trained staff is prerequisite for timely service and high quality. SLEE therefore offers frequently service and application trainings. Visit [www.slee.de](http://www.slee.de) to access the training schedule and download the registration form.

## **Training registration**

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**SLEE**  **medical**