

# Product Catalog

SLEE medical — Histopathology in focus



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

[www.slee.de](http://www.slee.de)



DESIGN AND MANUFACTURING  
MADE IN GERMANY



# *SLEE medical GmbH – Histopathology in focus*



Providing the best histopathology solutions is our passion, our know-how and our craft. We stand for top technology, high quality standards and consistent customer support. From the invention of the world's first cryostat back in the year 1954 by our company founder Kenneth Slee until today, we focus on improving the microscopic sample preparation process. The everyday needs of our global users are top priority to us.

Our headquarter with design center and product manufacturing is located in the Rhine Main area for decades. A location in the center of Germany with highest expertise in science, research and high-tech manufacturing to get benefited from the German tradition in top quality and high-precision products.

Our company culture stands out for the sense of responsibility towards our clients, employees, suppliers and business partners. As a globally oriented company we love to fuse our expertise in the field with the various perspectives of our global customers, thus being one of the most reliable partners in histopathology labs, in more than 100 countries worldwide.

*We're not just talking about  
cooperation and support;  
we give our best to provide both  
to our clients day by day!*

Stefan Schock  
Managing Director

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# *Tissue Processors*

- MTP · Carousel tissue processor
- MTM I/II · Vacuum tissue processor

## **Tissue Processors**

Embedding Centers

Microtomes

Cryostats

Water Bath &  
Slide Warmer

Staining Systems

Cover Slipper

Cytocentrifuge

Printers

Ergotec Workplaces

Consumables

# MTP

## 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 tissues, 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.

### Highlights

- Easy loading and full process control by rotating table principle
- Integrated UPS protects samples
- Up to 240 cassettes per run
- System status monitor
- Password protection
- Intuitive control panel
- Delayed start function

Options	Item No.
<b>Fume hood</b> for MTP/MSM (perspex)	11000220
<b>Vacuum unit (paraffin)</b> for unit 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> (GSM)	11000271
<b>TWIN basket</b> for MTP	11000221
<b>Exhaust fan system</b> including carbon filter	11000211

Optional accessories	Item No.
<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>Exchange carbon filter</b>	11000254
<b>Organizer cartridge</b>	11000255

<b>MTP 100–230V, 50/60Hz</b>	<b>Item No. 11000200</b>
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### Standard components

#### Basic instrument

<b>10x Reagent beakers</b> (POM, white)
<b>2x Heated paraffin beakers</b> (Aluminum)
<b>1x Transport basket</b> (stainless steel)
<b>1x Organizer tray</b> (stainless steel) for 65 cassettes
<b>1x Labelling set</b> for reagent beakers
<b>1x Transport basket lid</b>
<b>Operation manual</b>
<b>Mains cable</b>

### Specifications

<b>Dimensions</b> (width x depth x height)	850 x 850 x 750mm
<b>Weight</b> without accessories	80kg
<b>Reagent beakers</b>	
Material	POM, white
Capacity	2,000ml
<b>Heated paraffin beakers</b>	
Material	Aluminum, anodized, double walled
Capacity	2,000ml
<b>Transport basket</b>	
Material	Stainless steel
Capacity	120 standard cassettes
<b>Programming</b>	20 programs Freely programmable
<b>Electrical parameters</b>	100–230V, 50/60Hz

# MTM

## Vacuum tissue processor

The SLEE vacuum tissue processor family MTM combines state of the art technology with comfortable handling and design. The MTM vacuum tissue processor II offers a cost-efficient and user-friendly alternative for the fast biopsy processings 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.

## Highlights

- Safe tissue processing with preheated reagents
- Fully automatic reagent management system
- Automatic cleaning cycles
- Intuitive control via 15" touch display
- Charcoal filter supported ventilation
- Remote alarm system (optional)

## Two Functionalities – One Instrument

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



*Intuitive control via 15" touch display*

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	□	□

Optional accessories MTM I & II	Item No.
Cassette basket	39600061
Holder for cassette basket	39600062
Reagent container	39600030
Refill Pack Active Carbon	39600268
UPS 230V - 1,500VA–1,200W	11000510
UPS 230V - 1,500VA–1,760W	11000504
Remote alarm module	11000270

Specifications	MTM I	MTM II
Sample Processing Chamber capacity	300 standard cassettes	
Sample Processing Chamber Temperature	up to 65°C	
Reagent containers	10 (2.5 liters each)	
Paraffin containers	4+1 (2.5 liters each)	
Dimensions (width x depth x height)	700 x 720 x 1,440mm	
Weight without accessories	120kg	135kg
Electrical parameters	1,000W 115 or 230V, 50/60Hz	1,500W

MTM I 230V, 50/60Hz Histology vacuum tissue processor	Item No. 11000500
MTM II 230V, 50/60Hz Histology fast vacuum tissue processor	Item No. 11000600
MTM I 115V, 60Hz Histology vacuum tissue processor	Item No. 11000501
MTM II 115V, 60Hz Histology fast vacuum tissue processor	Item No. 11000601

# *Embedding Centers*

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

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

Tissue Processors

**Embedding Centers**

Microtomes

Cryostats

Water Bath &  
Slide Warmer

Staining Systems

Cover Slipper

Cytocentrifuge

Printers

Ergotec Workplaces

Consumables



# MPS/P1

## Basic paraffin embedding center

The space saving MPS/P1 is a complete paraffin dispensing unit including a 3.8 liters paraffin container, a heated working area and a cooling spot. The ergonomically elevated heated working area is illuminated by an 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 250 embedding molds.

### Highlights

- Manual lever and foot switch for paraffin dispensing
- Spacious cooling spot
- Adjustable magnifying glass
- Armrest for optimized work ergonomics
- Spacious and heated paraffin collection tray
- 3.8 liters paraffin container
- Programmable operating times
- Easily adjustable forceps holders
- Adjustable LED illumination
- Intuitive control panel
- Integrated heated wax trimmer:
  - Efficiently removes excess paraffin from any embedding tissue cassette
  - Paraffin is easily melted away and drains into the removable tray below
  - Physical damages (e.g. due to conventional trimming tools such as knife or razor) are consequently avoided
  - Large scale design of the trimmer area enables simultaneous paraffin trimming of multiple blocks
- Two pre-warmed areas for 80 cassettes and 250 embedding molds.
- Huge variety of electrically heated forceps (optional)



### Flexible

Forceps can be freely placed in the holders with a capacity of three forceps each. Electrical forceps can be connected optionally.



### Everything within reach

Two heated trays, for either 80 standard cassettes and 250 embedding molds are conveniently located in the back of the working area.



### Standard Components

Pre-warming and dispensing module
Foot switch for paraffin dispenser
Magnifying glass, adjustable
Paraffin collection tray
Forceps holder
2 x forceps (1 x blunt, 1 x pointed)
Cleaning spatula black
Base molds 7 x 7 x 7mm, 12 pcs., stainless steel
Base molds 24 x 24 x 7mm, 12 pcs., stainless steel
Mains cable
Operation manual

### Specifications

Temperature range	Up to 80°C programmable
Cooling spot	50 x 50mm
Paraffin capacity	3.8l
Heated cassette area	Up to 80 cassettes
Heated mold area (width x depth x height)	Up to 250 molds 125 x 205 x 40mm each (Tray inserts are removable)
Dimensions (width x depth x height)	450 x 600 x 295mm
Working area (width x depth)	450 x 240mm
Weight without accessories	22kg

MPS/P1 220–230V, 50/60Hz	Item No. 10190000
MPS/P1 115V, 60Hz	Item No. 10192000

# MPS/P2

## Modular paraffin embedding center

The MPS/P2 features ease of operation, spacious working area, large paraffin container capacity. All modules operate at the same working height and can be arranged accordingly to laboratory requirements. The flexible 3-module system consists of a dispensing element MPS/P, a pre-warming module MPS/W and a separate cooling plate MPS/C or MPS/CX. The positioning of the modules can be easily adapted to the lab requirements.



### Highlights

- Manual lever and foot switch for paraffin dispensing
- Spacious cooling spot
- Adjustable magnifying glass
- Arm rest for optimized working ergonomics
- Spacious and heated paraffin collection tray
- 5.5 liters paraffin container
- Programmable operating times
- Easily adjustable forceps holders
- Adjustable LED-illumination
- Intuitive control panel
- Integrated heated wax trimmer:
  - Efficiently removes excess paraffin from any embedding tissue cassette
  - Paraffin is easily melted away and drains into the removable tray below
  - Physical damages (e.g. due to conventional trimming tools such as knife or razor) are consequently avoided
  - Large scale design of the trimmer area enables simultaneous paraffin trimming of multiple blocks
- Huge variety of electrically heated forceps (optional)

### Standard components

Dispensing module MPS/P
Pre-warming module MPS/W
Cooling module MPS/C for 120 cassettes
Foot switch for paraffin dispenser
Magnifying glass, adjustable
Paraffin collection tray
Forceps holder
2 x forceps (1 x blunt, 1 x pointed)
Cleaning spatula black
Base molds 7 x 7 x 7mm, 12 pcs., stainless steel
Base molds 24 x 24 x 7mm, 12 pcs., stainless steel
Mains cable
Operation manual

MPS/P2 220–230V, 50/60Hz  
MPS/P2 115V, 60Hz

Item No. 10185000  
Item No. 10187000

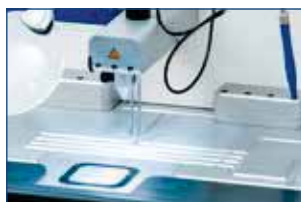
# MPS/P

## Dispensing module



### Spacious

Large working area with integrated cooling spot. The working area has a special drainage system and guides the paraffin into the heated collection tray.



### Under Control

The 5.5-liters paraffin container allows constant working with the MPS/P. The perfect light and easily regulated flow keeps everything under control.



### Specifications

<b>Temperature range</b>	Up to 80°C (paraffin container) Up to 80°C (working area) Down to -5°C (cooling spot)
<b>Paraffin capacity</b>	5.5l
<b>Cooling spot</b>	50 x 50mm
<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 position
<b>Paraffin flow</b>	Activation manually or by foot switch Continuously adjustable flow rate
<b>Control</b>	Programming of temperature, working day, working time, time, date
<b>Dimensions</b> (width x depth x height)	450 x 600 x 290mm
<b>Working area</b> (width x depth)	450 x 240mm
<b>Weight</b>	18kg

### Optional accessories

Item No.

<b>Electrically heated forceps</b> 0.5–4mm (straight, curved or angled)	
<b>Base molds (stainless steel)</b> 7mm x 7mm x 7mm (12 pcs.)	30030050
<b>Base molds (stainless steel)</b> 30mm x 24mm x 7mm (12 pcs.)	30030051
<b>Base molds (stainless steel)</b> 15mm x 15mm x 7mm (12 pcs.)	30030052
<b>Base molds (stainless steel)</b> 24mm x 24mm x 7mm (12 pcs.)	30030053
<b>Base molds (stainless steel)</b> 37mm x 24mm x 7mm (12 pcs.)	30030054
<b>Base molds (stainless steel)</b> Other sizes on demand	

<b>MPS/P 220–230V, 50/60Hz</b>	<b>Item No. 10170000</b>
<b>MPS/P 115V, 60Hz</b>	<b>Item No. 10172000</b>

# MPS/W

## Pre-warming module



### Mold warmer

To have enough molds ready for the large working area of the MPS/P the MPS/W has a mold warmer for up to 500 molds. Temperature freely selectable up to 80°C.



### Cassette area

Take common baskets (like from the MTM tissue processor) and place them directly into the cassette area.



### Easy to clean

The cassette tray can be taken out for cleaning. So, disposal of paraffin is easy.



### Independent

The MPS/W works independently from the MPS/P.



### Specifications

**Heated cassette area**  
(width x depth x height) Up to 150 cassettes  
255 x 265 x 55mm  
(Tray insert is removable)

**Heated mold area**  
(width x depth x height) Up to 500 molds  
260 x 220 x 70mm

**Temperature range** Up to 80°C (working areas)

**Control** Programming of temperature, working day, working time, time, date

**Dimensions**  
(width x depth x height) 300 x 600 x 290mm

**Weight** 15kg without accessories

MPS/W 220–230V, 50/60Hz

Item No. 10180000

MPS/W 115V, 60Hz

Item No. 10182000

# MPS/C and MPS/CX

## Cooling module



### Avoid ice

If you work in environments with high humidity the physical effect of ice formation on the cooling plate can occur. To avoid this, a transparent hood is optionally available.



### Independent

With independent controls, the MPS/C or CX can be placed according to individual lab requirements.



Specifications	
Temperature range	Down to -15°C
Cassette capacity	<b>MPS/C</b> Up to 80 cassettes
	<b>MPS/CX</b> Up to 120 cassettes
Control	Programming of temperature, working day, working time, time, date
Working area (width x depth)	<b>MPS/C</b> 370 x 270mm
	<b>MPS/CX</b> 570 x 270mm
Dimensions (width x depth x height)	<b>MPS/C</b> 400 x 600 x 290mm
	<b>MPS/CX</b> 600 x 600 x 290mm
Weight	<b>MPS/C</b> 26kg
	<b>MPS/CX</b> 35kg

Optional accessories	Item No.
Transparent hood for cooling plate MPS/C	10175100

MPS/C 220–230V, 50Hz	Item No. 10175000
MPS/C 115V, 60Hz	Item No. 10177000
MPS/CX 220–230V, 50Hz	Item No. 10175020
MPS/CX 115V, 60Hz	Item No. 10177020



# Microtomes

All SLEE rotary microtomes are manufactured at the company's site in Germany. The high-precision, modularly assembled rotary microtomes range from a manual unit, type CUT 4062, to the semi-automatic type CUT 5062 and to the fully automatic type CUT 6062. The range is completed by the manual sliding microtome cuttec S.

All microtomes are equipped with maintenance-free guideways with cage roller bearings and micrometer feed mechanism to ensure highest stability and precision. A huge variety of accessories offers the possibility and flexibility 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
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- Ergotec Workplaces
- Consumables

# Overview Rotary Microtomes



CUT 4062	CUT 5062	CUT 6062
<b>Manual precision microtome</b>	<b>Semi-automatic precision microtome</b>	<b>Fully automatic precision microtome</b>
Disposable blade holder (alternatively: Standard knife holder)	Disposable blade holder (alternatively: Standard knife holder)	Disposable blade holder (alternatively: Standard knife holder)
Trimming function in 4 steps 10; 20; 30; 40µm	Motor trimming function, 0.5–750µm	Motor trimming function, 0.5–750µm
Ergonomically located coarse feed wheel		Motorized sectioning (section window/variably adjustable cutting speeds)
Specimen orientation	Specimen orientation	Specimen 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, standard specimen clamp (up to 50 x 50mm), foil clamp, prism set	Standard specimen clamp (up to 50 x 50mm), foil clamp, prism set	Standard specimen clamp (up to 50 x 50mm), foil clamp, prism set
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## Specifications

560 x 550 x 325mm (width x depth x height)	520 x 600 x 325mm (width x depth x height)	520 x 600 x 325mm (width x depth x height)
33kg	33kg	34kg
Cutting thickness 0.5–60µm	Cutting thickness 0.5–100µm	Cutting thickness 0.5–100µm
Horizontal advance 28mm	Horizontal advance 28mm	Horizontal advance 28mm
Vertical stroke 60mm	Vertical stroke 72mm	Vertical stroke 72mm
		Cutting speed variable up to 450mm/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 rotary precision microtome

The SLEE medical manual rotary precision microtome CUT 4062 is designed for all applications in routine, research or industry. Years of experience and customer input have contributed to create one of the best manual microtomes being available. The CUT 4062 combines highest precision with user friendliness as well as best comfort and ergonomics. Like all SLEE medical microtomes, the CUT 4062 comes with a complete set of standard components, ready to be used out of the box.

### Highlights

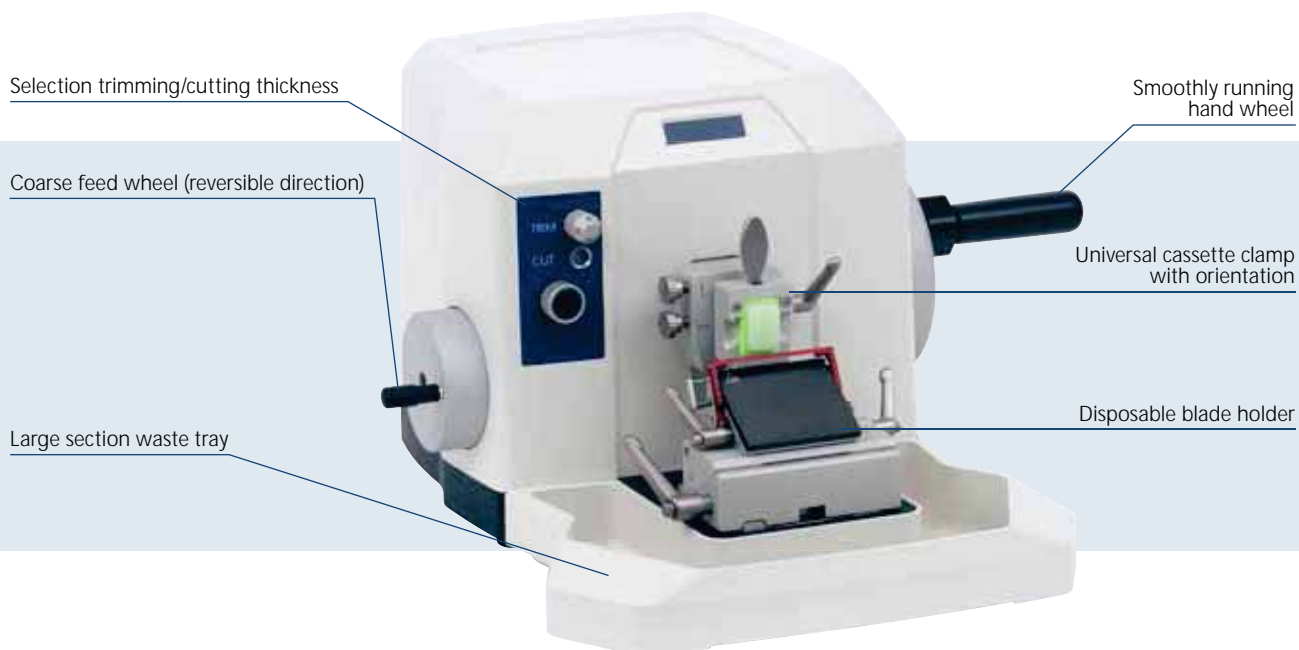
- Ergonomic design
- Spacious, integrated section waste tray
- Wide range of accessories
- Hand wheel lock in any position
- Blade holder levers changeable (for left-handed users)
- Section counter (optional)
- Specimen retraction
- Coarse feed wheel reversible direction (on demand)
- Second hand wheel brake (optional)

### Specifications

<b>Section thickness range</b>	0.5–60µm
<b>Section thickness settings</b>	0.5–2µm in 0.5-µm steps 2–10µm in 1-µm steps 10–60µm in 2-µm steps
<b>Trim thickness settings</b>	10µm, 20µm, 30µm, 40µm
<b>Horizontal advance</b>	28mm
<b>Vertical stroke</b>	60mm
<b>Specimen retraction</b>	automatic
<b>Specimen orientation</b>	± 8 °
<b>Dimension</b> (width x depth x height)	560 x 550 x 325mm
<b>Weight</b>	33kg

CUT 4062

Item No. 10065000



## Standard components

**Basic instrument**

**Specimen orientation**

**Universal cassette clamp**, orientable  
(alternatively: Standard specimen clamp, orientable)

**Disposable blade holder**  
(alternatively: Standard knife holder)

**Section waste tray**

**Disposable blades**, low profile (1 box, 50 pcs.)

**Operation Manual**

**Dust cover**

## Optional accessories

Item No.

**aquatec system** 10090056

**MTR Bench top quick freezing unit** 10110000

**Magnifier** with illumination 10090060

**TC65 Disposable blade holder** 10090041  
(for tungsten carbide blades)

**Tungsten carbide blades** (1 pcs.) 28406000

**Glass knife holder** (for triangle glass knives) 10090014

**Segment arc** incl. universal sample holder 10090015  
(for glass knife holder application)

**Super Mega cassette clamp**, orientable 10090027

**Super Mega cassette clamp**, fixed 10090021

**Standard specimen clamp**, fixed 10030007

**Foil clamp** 10090025

**Prism** (Set) 10090017

**Round specimen holders**  
(different diameters on request)

**More on request**



# CUT 5062

## Semi-automatic rotary precision microtome

The SLEE medical semi-automatic rotary precision microtome CUT 5062 is designed for all applications in routine, research or industry. Years of experience and customer input have contributed to create one of the best semi-automatic microtomes being available. The CUT 5062 combines highest precision with user friendliness as well as best comfort and ergonomics. The manual sectioning is improved by the motorized specimen feed. Like all SLEE medical microtomes, the CUT 5062 comes with a complete set of standard components, ready to be used out of the box and a wide range of accessories to customize where needed.

### Highlights

- Ergonomic design
- Spacious, integrated section waste tray
- Wide range of accessories
- Intuitive control panel
- Hand wheel lock in any position
- Blade holder levers changeable (for left-handed users)
- 2 operation modes (standard and rocking mode)
- Motorized trimming up to 750µm, programmable
- Motorized advance/return of specimen (2 speeds)
- Specimen feed speed SLOW: 75 / 150 / 300 / 600 µm/s
- Specimen feed speed: 3000 µm/s
- Section counter (stroke/distance)
- 2 specimen feed memory positions
- Variable retraction
- External control panel (optional)
- Second hand wheel brake (optional)

### Specifications

<b>Section thickness range</b>	0.5–100µm
<b>Section thickness settings</b>	0.5–2µm in 0.5-µm steps 2–20µm in 1-µm steps 20–50µm in 2-µm steps 50–100µm in 5-µm steps
<b>Trim thickness settings</b>	0.5–750µm 0.5–2µm in 0.5-µm steps 2–20µm in 1-µm steps 20–50µm in 2-µm steps 50–150µm in 5-µm steps 150–750µm in 10-µm steps
<b>Horizontal advance</b>	28mm
<b>Vertical stroke</b>	72mm
<b>Specimen retraction</b>	0–200µm selectable
<b>Specimen orientation</b>	± 8°
<b>Dimension</b> (width x depth x height)	520 x 600 x 325mm
<b>Weight</b>	33kg

CUT 5062 100–230V, 50/60Hz

Item No. 10070001





## Intuitive use

Having a variety of features sometimes ends up in difficult usage. Not with the CUT 5062 which can be easily controlled via the intuitive control panel.



## All in sight

All settings can be easily seen and monitored in the LCD display being in height of the eyes of the user at the front side of the CUT 5062.



### Standard components

#### Basic instrument

#### Specimen orientation

**Universal cassette clamp**, orientable  
(alternatively: Standard specimen clamp, orientable)

**Disposable blade holder**  
(alternatively: Standard knife holder)

#### Section waste tray

**Disposable blades**, low profile (1 box, 50 pcs.)

#### Mains cable

#### Operation Manual

#### Dust cover

### Optional accessories

Item No.

**aquatec system** 10090056

**MTR Bench top quick-freezing unit** 10110000

**Magnifier** with illumination 10090060

**Remote control panel CUT 5062** 10090050

**TC65 Disposable blade holder** 10090041  
(for tungsten carbide blades)

**Tungsten carbide blades** (1 pcs.) 28406000

**Glass knife holder** (for triangle glass knives) 10090014

**Segment arc** incl. universal sample holder 10090015  
(for glass knife holder application)

**Super Mega cassette clamp**, orientable 10090027

**Super Mega cassette clamp**, fixed 10090021

**Standard specimen clamp**, fixed 10030007

**Foil clamp** 10090025

**Prism** (Set) 10090017

**Round specimen holders**  
(different diameters on request)

**More on request**



# CUT 6062

## Fully-automatic rotary precision microtome

The SLEE medical fully-automatic rotary precision microtome CUT 6062 is designed for all applications in routine, research or industry. Years of experience and customer input have contributed to create one of the best fully-automatic microtomes being available. The CUT 6062 combines highest precision with user friendliness as well as best comfort and ergonomics. The motorized sectioning combined with innovative features and accessories make the CUT 6062 unique. Like all SLEE medical microtomes, the CUT 6062 comes with a complete set of standard components, ready to be used out of the box and a wide range of accessories to customize where needed.

### Highlights

- Ergonomic design
- Spacious, integrated section waste tray
- Wide range of accessories
- Intuitive control panel
- Hand wheel lock in any position
- Blade holder levers changeable (for left-handed users)
- High efficient motorized sectioning (section window/variably adjustable cutting speeds)
- 7 different operation modes (Motorized: continuous, program, single step, step, window; Manual: standard and rocking mode)
- Motorized trimming up to 750µm, programmable
- Motorized advance/return of specimen (2 speeds)
- Specimen feed speed SLOW: 75 / 150 / 300 / 600 µm/s
- Specimen feed speed: 3000 µm/s
- Section counter (stroke/distance)
- 2 specimen feed memory positions
- Variable retraction
- External control panel (optional)
- Second hand wheel brake (optional)

### Specifications

<b>Section thickness range</b>	0.5–100µm
<b>Section thickness settings</b>	0.5–2µm in 0.5-µm steps 2–20µm in 1-µm steps 20–50µm in 2-µm steps 50–100µm in 5-µm steps
<b>Trim thickness settings</b>	0.5–750µm 0.5–2µm in 0.5-µm steps 2–20µm in 1-µm steps 20–50µm in 2-µm steps 50–150µm in 5-µm steps 150–750µm in 10-µm steps
<b>Horizontal advance</b>	28mm
<b>Vertical stroke</b>	72mm
<b>Specimen retraction</b>	0–200µm selectable
<b>Specimen orientation</b>	± 8°
<b>Dimension</b> (width x depth x height)	520 x 600 x 325mm
<b>Weight</b>	34kg

CUT 6062 100–230V, 50/60Hz

Item No. 10080001



## Intuitive use

Having a variety of features sometimes ends up in difficult usage. Not with the CUT 6062 which can be easily controlled via the intuitive control panel.



## Comfort

For enjoying highest comfort when using CUT 6062, these instruments are delivered with a foot switch as a standard accessory.



## All in sight

All settings can be easily seen and monitored in the LCD display being in height of the eyes of the user at the front side of the CUT 6062.



### Standard components

#### Basic instrument

#### Specimen orientation

**Universal cassette clamp**, orientable  
(alternatively: Standard specimen clamp, orientable)

**Disposable blade holder**  
(alternatively: Standard knife holder)

#### Section waste tray

**Disposable blades**, low profile (1 box, 50 pcs.)

**Foot switch** for motor drive

**Mains cable**

**Operation Manual**

**Dust cover**

### Optional accessories

Item No.

<b>aquatec system</b>	10090056
<b>MTR Bench top quick-freezing unit</b>	10110000
<b>Magnifier</b> with illumination	10090060
<b>Remote control panel CUT 6062</b>	10090051
<b>TC65 Disposable blade holder</b> (for tungsten carbide blades)	10090041
<b>Tungsten carbide blades</b> (1 pcs.)	28406000
<b>Glass knife holder</b> (for triangle glass knives)	10090014
<b>Segment arc</b> incl. universal sample holder (for glass knife holder application)	10090015
<b>Super Mega cassette clamp</b> , orientable	10090027
<b>Super Mega cassette clamp</b> , fixed	10090021
<b>Standard specimen clamp</b> , fixed	10030007
<b>Foil clamp</b>	10090025
<b>Prism</b> (Set)	10090017
<b>Round specimen holders</b> (different diameters on demand)	
<b>More on request</b>	

# Beyond standard application

The high precision microtomes of the CUT series are the basis for best quality sectioning. Together with add-on equipment such as the MTR bench top quick-freezing unit, the aquatec system or the video viewing devices, the system is ready for any kind of high performance sectioning in the field of medical and industrial applications.

## Precise orientation

The one-handed specimen orientation on the x- and y-axis as well as the blade holder positioning scale on the base plate allow a fast alignment.



## Flexible

Full flexibility due to the disposable blade holder or standard knife holder and the multiple clamps for any kind of specimen. Additionally changeable position of the clamping levers and blade ejector from left to right.



## Easy to clean

The usage of paraffin leads to the need to clean the microtome. The CUT microtome design helps to make cleaning as easy as possible.



## Section waste tray

The large waste tray fits perfectly to the body of the microtome and collects the waste during sectioning. Disposal of cutting waste is easy and fast.



## Best sight

To make even small biopsy samples visible, CUT microtomes can be optionally equipped with a magnifier with illumination.



## Safety

The handwheel can be locked in any position. The blade holder features a finger protection system for increased safety. A second handwheel brake is optionally available.



## Organized

All tools needed for sectioning can be placed on the special area on top of the microtome housing. This allows fast and fatigue-free working.



## Ergonomics

All CUT microtomes have been created with the user in mind – ergonomic is just as important as the section quality. Perfect fit for workplaces of the ergotec series.



## Perfect fit

The best microtome is nothing without the perfect blade. We offer premium quality high and low profile blades as well as tungsten carbide blades.







# aquatec

## Transfer system for microtomes of CUT series

The aquatec system provides the solution for the daily challenges of cutting sophisticated paraffin sections. Already during the cutting process, the section is stretched due to the temperature-controlled laminar water film. The volume flow of the water film can be adjusted at any time according to the cutting requirements.

With the transfer bridge open, the cutting waste is simply fed into the waste container and compressed there. Frequent disposal of the waste is eliminated.

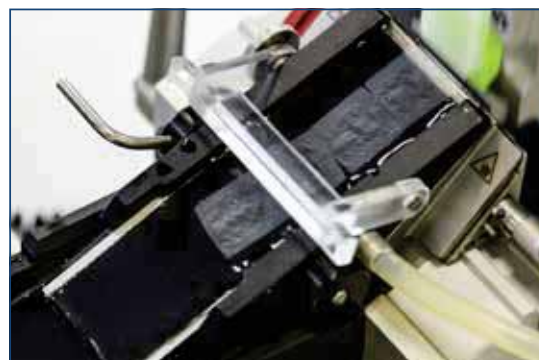
The section slides gently into the tempered water bath. There, it can be evaluated and selected in the illuminated water bath. The high-quality sections can now be simply handled in the usual way. All settings are carried out via the touch display on the front.

### Highlights

- Easy pairable with any CUT series microtome
- Adjustable laminar water flow for perfect section stretching
- User selectable water temperature from ambient temperature up to 50°C
- Minimized section handling and simple creation of section ribbons
- Best compression of section waste, easy to clean
- Integrated section illumination
- Touch display control



Setting up the device



Cutting process and transport

### Specifications

<b>Water bath temperature</b>	up to 50°C
<b>Volume of heated water bath</b>	750ml
<b>Volume of pump reservoir</b>	570ml
<b>Flow rate</b>	0–500ml/min.
<b>Dimensions</b> (width x depth x height)	300 x 300 x 300mm
<b>Weight</b>	4.8kg

Aquatec 100–230V, 50/60Hz Item No. 10090056





## 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

### Magnifier with illumination

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

- Rotatable and adjustable through flexible metal tube
- Lens (Dimensions Ø 72mm lens; diopters: 6)
- Light source: 63 x light-emitting diode (LED), neutral white, dimmer



External control panel CUT 5062

Item No. 10090050

External control panel CUT 6062

Item No. 10090051

**Magnifier with illumination**  
100–230V, 50/60Hz

Item No. 10090060



# MTR

## Bench top quick-freezing unit

The quick-freezing unit consists of a compressor cooling system with a flexible tube and a cooling block which can be adapted to a standard specimen clamp of different types of microtomes.

### Highlights

- Extremely quiet
- Self optimizing controller for temperature accuracy
- Manual defrost
- High cooling capacity to -45°C

### Specifications

**Dimensions** 410 x 485 x 310mm  
(width x depth x height)

**Weight** 28kg

**Cooling capacity** Down to -45°C

**MTR 230V, 50/60Hz** Item No. 10110000

**MTR 115V, 60Hz** Item No. 10110002



Tissue Processors

Embedding Centers

**Microtome cuttec S**

Cryostats

Water Bath &  
Slide Warmer

Staining Systems

Cover Slipper

Cytocentrifuge

Printers

Ergotec Workplaces

Consumables



## cuttec S

### Manual sliding microtome

The manual sliding microtome cuttec S is designed for all applications in routine, research or industry, always focusing on the needs of the user. The precise mechanisms together with the smooth operation are contributing to best quality sections every day. Features like the specimen orientation are included as standard components. But also the safety of user and specimen was taken into account, symbolized by the locking mechanism or finger protection system. The cuttec S comes ready to be used as a fully configured device.

### Highlights

- High quality sections
- Safety features to protect user and specimen
- Ergonomic design for fatigue-free working
- Precise specimen orientation
- Complete set of accessories
- Waste tray included



### Specifications

Section thickness range	0–60µm
Section thickness settings	0–15µm in 1-µm steps 15–60µm in 5-µm steps
Automatic feed	0–60µm
Specimen feed	30mm
Maximum specimen size	50 x 70 x 20mm
Specimen orientation	± 8°
Length of cutting way	180mm

cuttec S

Item No. 10040001



# 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 intended 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 world's first cryostat SLEE has achieved an excellent reputation and since then has continuously expanded its leading market position.

The cryostats manufactured by SLEE medical offer best ergonomic features and efficiency: the floor-standing units MEV and MNT are equipped with a spacious cryochamber 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
- Printers
- Ergotec Workplaces
- Consumables



# Overview



MEV / MEV+	MNT
<b>Routine cryostat</b>	<b>High-end cryostat</b>
Exchangeable standard knife or disposable blade holder	Exchangeable standard knife or disposable blade holder
	Cutting motor with variable speed
Specimen orientation	Specimen orientation
24 position specimen storage actively cooled	24 position specimen storage actively cooled
Power saving mode	Power saving mode
Automatic retraction	Automatic retraction

## Options

UV-C disinfection, 2 Quick freezing positions (-55°C),  
Object cooling (-45°C)

UV-C disinfection, 2 Quick freezing positions (-55°C),  
Object cooling (-45°C),

## Specifications

680 x 760 x 1,110mm (width x depth x height)	750 x 760 x 1,110mm (width x depth x height)
MEV: 127kg      MEV+: 154kg	154kg
Cutting thickness 0.5–100µm	Cutting thickness 0.5–100µm
Trimming thickness 0.5–750µm	Trimming thickness 0.5–750µm
Horizontal advance 28mm	Horizontal advance 28mm
Vertical stroke 58mm	Vertical stroke 58mm
	Cutting speed variable 0.5–300mm/sec
Specimen orientation x/y axis: 8° z axis: 360°	Specimen orientation x/y axis: 8° z axis: 360°
Specimen holders 22 and 35mm Ø with grip protection	Specimen holders 22 and 35mm Ø with grip protection
Cryo chamber temperature 0°C to -35°C	Cryo chamber temperature 0°C to -35°C

## MEV+

Product based on MEV platform including the following options:  
UV-C disinfection, 2 x Quick freezing positions and Object cooling.



## MEV/MEV+ Routine 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 freezing bar with 24 positions and a cryo chamber temperature down to -35°C.

The model MEV+ covers the requirements for a cryostat that is most frequently needed in routine histology. This is approved by our long experience in this market and regular customer feedback. This instrument is equipped with UV-C surface disinfection, 2 x Quick freezing positions and Object cooling.

### Highlights

- 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
- 2 x Quick 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

#### Specimen holders (5 x Ø 22mm; 5 x Ø 35mm)

#### 1 x Heat extractor

#### 1 x Rack for specimen holders (stainless steel)

#### 1 Box of disposable blades (50 pcs.)

#### 1 x CryoGlue embedding medium (1 x 125ml)

#### 1 x Bottle cryostat low temperature oil

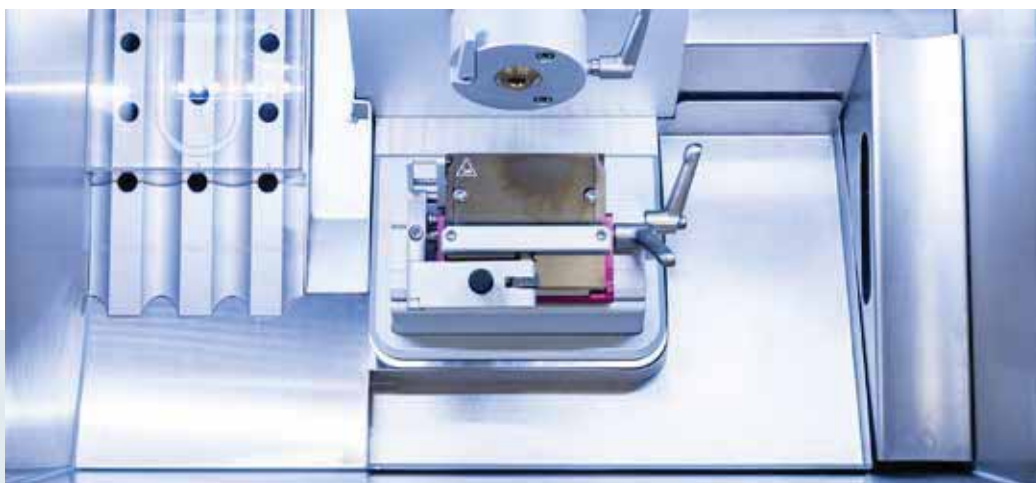
#### Set of allen keys

#### Brush

#### Operation manual

#### Mains cable

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



*MEV cryochamber with semi-automatic rotary microtome*

## Specifications

<b>Cryochamber temperature</b>	0°C to -35°C
<b>Section thickness setting range</b>	0.5–100µm
<b>Section thickness selection</b>	0.5–2µm in 0.5-µm steps 2–20µm in 1-µm steps 20–50µm in 2-µm steps 50–100µm in 5-µm steps
<b>Trimming thickness</b>	0.5–750µm
<b>Horizontal specimen advance</b>	28mm
<b>Vertical specimen stroke</b>	58mm
<b>Specimen retraction</b>	0–200µm; 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>	
MEV	680 x 760 x 1,110mm
MEV+ and instruments with option Object cooling	750 x 760 x 1,100mm (width x depth x height)
<b>Weight</b>	
without accessories	127kg MEV 154kg MEV+

MEV 230V, 50/60Hz	Item No. 10150000
MEV 115V, 60Hz	Item No. 10153000
MEV+ 230V, 50/60Hz	Item No. 10150700
MEV+ 115V, 60Hz	Item No. 10150701

**MEV+ including:**  
2 x Quick freezing positions, UV-C disinfection and Object cooling

## Options

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

## Optional accessories

	Item No.
<b>Standard knife holder*</b>	10156010
<b>Section waste cloth</b>	30000015
<b>Specimen holder (Ø 22mm; 5 pcs.)</b>	30000002
<b>Specimen holder (Ø 28mm; 5 pcs.)</b>	30000017
<b>Specimen holder (Ø 35mm; 5 pcs.)</b>	30000000
<b>Specimen holder (Ø 50mm; 5 pcs.)</b>	30000003
<b>Rack for specimen holders (stainless steel)</b>	31000769
<b>Cork plate (100 pcs; Ø 20mm)</b>	30001001
<b>CryoGlue embedding medium (4 x 125ml)</b>	30001100
<b>Clear-cut brush</b>	30001030
<b>Anti-roll plate (disposable blade holder)</b>	32001050
<b>Anti-roll plate (standard knife holder)</b>	32001049
<b>Disposable blade (low profile; 50 pcs)</b>	28407000
<b>Disposable blade (high profile; 50 pcs)</b>	28408000

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



## MNT

### 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 and state of the art electronic control.

### Highlights

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

### Standard Components

#### Basic instrument

#### Fully-automatic rotary microtome

#### Anti-roll plate

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

#### 1 x Heat extractor

#### 1 x Rack for specimen holders (stainless steel)

#### 1 Box of disposable blades (50 pcs.) or

#### 1 steel knife (16cm C-profile)

#### 1x CryoGlue embedding medium (1 x 125ml)

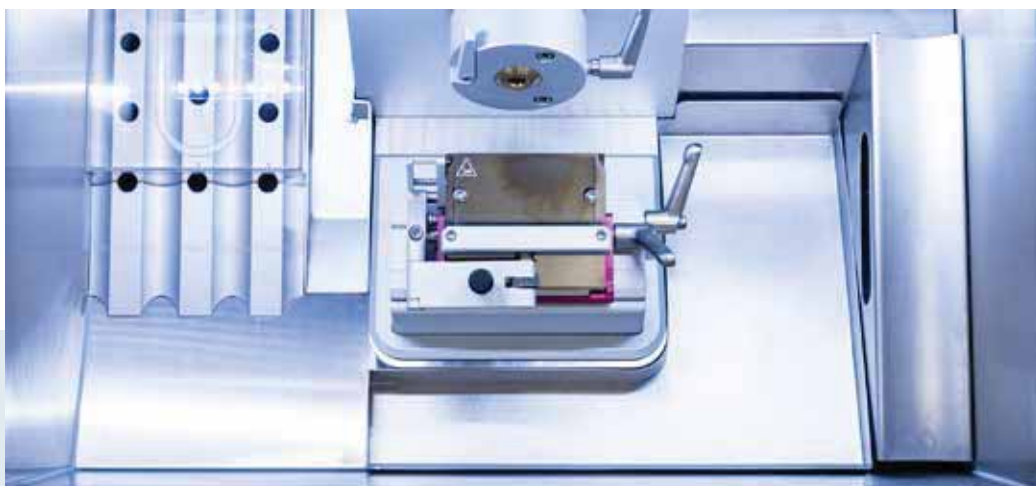
#### 1x Bottle cryostat low temperature oil

#### Set of allen keys

#### Brush

#### Operation manual

#### Mains cable



*MNT cryochamber with fully-automatic rotary microtome*

## Specifications

<b>Cryochamber temperature</b>	0°C to -35°C
<b>Section thickness setting range</b>	0.5–100µm
<b>Section thickness selection</b>	0.5–2µm in 0.5-µm steps 2–20µm in 1-µm steps 20–50µm in 2-µm steps 50–100µm in 5-µm steps
<b>Trimming thickness</b>	0.5–750µm
<b>Horizontal specimen advance</b>	28mm
<b>Vertical specimen stroke</b>	58mm
<b>Sectioning speed</b>	20–300mm/s, selectable
<b>Specimen retraction</b>	0–200µm; 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 1,110mm
<b>Weight</b> without accessories	154kg

MNT 230V, 50/60Hz

Item No. 10160000

MNT 115V, 60Hz

Item No. 10162000

## Options

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

## Optional accessories

	Item No.
<b>Standard knife holder*</b>	10156010
<b>Section waste cloth</b>	30000015
<b>Specimen holder (Ø 22mm; 5 pcs.)</b>	30000002
<b>Specimen holder (Ø 28mm; 5 pcs.)</b>	30000017
<b>Specimen holder (Ø 35mm; 5 pcs.)</b>	30000000
<b>Specimen holder (Ø 50mm; 5 pcs.)</b>	30000003
<b>Rack for specimen holders (stainless steel)</b>	31000769
<b>Cork plate (100 pcs; Ø 20mm)</b>	30001001
<b>CryoGlue embedding medium (4 x 125ml)</b>	30001100
<b>Clear-cut brush</b>	30001030
<b>Anti-roll plate (disposable blade holder)</b>	32001050
<b>Anti-roll plate (standard knife holder)</b>	32001049
<b>Disposable blade (low profile; 50 pcs)</b>	28407000
<b>Disposable blade (high profile; 50 pcs)</b>	28408000

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



# Water Bath & Slide Warmer

- slidetec WATER/HEAT
- slidetec HEAT
- slidetec WATER
- slidetec WATER s

Water bath & Slide warmer  
Slide warmer  
Water bath  
Water bath



## slidetec WATER s

### Specifications

Capacity water bath	2 liters
Dimension (width x depth x height)	350 x 370 x 230mm
Weight	2kg
Temperature range	RT to 60°C
Electrical parameters	115 or 230V, 50/60Hz
Consumption	300W

slidetec WATER s 230V, 50/60Hz	Item No. 13000520
slidetec WATER s 115V, 60Hz	Item No. 13000521

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

# slidetec

## WATER/HEAT

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

- **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 liters
Capacity slide warmer	30 slides
Dimension (width x depth x height)	370 x 560 x 230mm
Weight	18kg
Temperature range	RT to 60°C (waterbath) RT to 80°C (stretching table)
Electrical parameters	115 or 230V; 50/60Hz
Consumption	600W

slidetec WATER/HEAT 230V, 50/60Hz	Item No. 13000500
slidetec WATER/HEAT 115V, 60Hz	Item No. 13000501



# slidetec

## HEAT

### Specifications

Capacity slide warmer	30 slides
Dimension (width x depth x height)	350 x 370 x 230mm
Weight	15kg
Temperature range	RT to 80°C
Electrical parameters	115 or 230V; 50/60Hz
Consumption	300W

slidetec HEAT 230V, 50/60Hz	Item No. 13000510
slidetec HEAT 115V, 60Hz	Item No. 13000511



# slidetec

## WATER

### Specifications

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

slidetec WATER 230V, 50/60Hz	Item No. 13000520
slidetec WATER 115V, 60Hz	Item No. 13000521

### Options

Lid for slidetec WATER or WATER/HEAT for covering glass through	Item No. 13000550
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# *Staining Systems*

- MSM · Carousel slide stainer
- cromatec I/II · Flexible staining system with highest throughput
- MAS · Multi protocol stainer

Tissue Processors

Embedding Centers

Microtomes

Cryostats

Water Bath &  
Slide Warmer

**Staining Systems**

Cover Slipper

Cytocentrifuge

Printers

Ergotec Workplaces

Consumables



# MSM

## Carousel slide stainer

The MSM carousel slide 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 400ml. The Flex-programming option allows different protocols while utilizing the same reagents. An integrated UPS ensures highest process reliability even in environments with frequent power failures. Hazardous fumes are efficiently eliminated by a fume extraction system thus increasing user safety.

### Highlights

- Easy loading and full process control due to rotating table principle
- Integrated UPS system protects your samples
- Flex-programming
- System status monitor
- Password protection
- Intuitive control panel

### Specifications

#### Staining cuvettes

Material	plastic
Dimensions (width x depth x height)	130 x 40 x 135mm
Capacity	400ml

#### Transport basket

Material	plastic
Capacity	30 standard size micro slides

#### Programming

20 staining programs,  
freely programmable

#### Dimensions

(width x depth x height)	870 x 870 x 750mm
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#### Weight

without accessories	80kg
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#### Electrical parameters

100–230V, 50/60Hz

### Standard components

#### Basic instrument

#### 24 x staining cuvette (plastic)

#### 1 x transport basket (plastic)

Capacity for 30 standard size micro slides

#### Operation manual

#### Mains cable

### Options

#### Item No.

Perspex hood 11000220

Staining cuvettes 12000260

Slide basket (30 slides) 38500051

Drying station 12000256

Exhaust fan 11000210

Exhaust fan including carbon filter 11000211

Exchange carbon filter 39500011

MSM/24 100–230V, 50/60Hz

Item No. 12000205



# cromatec I

## Flexible staining system with highest throughput

SLEE medical cromatec stainer represent maximum productivity and highest economy in routine histology and cytology. They combine consistent staining quality with incomparable easy use of the instrument. A continuous loading with baskets with maximum 30 slides supports the user to fulfil the daily requirements and enables staining with highest throughput. cromatec slide baskets can be directly processed in all SLEE coverslipper. In case of using a different coverslipper, there are adapters available for using the baskets in our cromatec product line.

The flexibility of the SLEE cromatec stainer is unique. This singularity is characterized by individually programmable time settings for each station and freely selectable position for the washing cuvettes. The exhaust air is cleaned by the integrated activated carbon filter or by a connection to a central extraction system. The very quiet operating noise avoids any disturbance. Due to the compact and space saving design, the stainer can be easily integrated into your laboratory. To safeguard the operation of the unit in case of power failures, every instrument is equipped as standard with an integrated uninterruptible power supply (UPS).

### Highlights

- Highest throughput, e. g. H&E staining
- Individual time settings, station for station, for maximum flexibility
- Continuous loading with slide baskets
- Up to 6 washing cuvettes with regulated fresh water supply
- Reagent management system for maximum and consistent staining quality
- Smart device connectivity for monitoring staining processes, apps for iOS and Android
- Very quiet operating noise
- Integrated exhaust cleaning with active carbon filter
- Easy and intuitive handling via 7" touch display
- Integrated LED-Illumination of the the working area
- Integrated UPS

### Specifications

Quantity stations	20
Capacity of slide baskets	30 slides
Loading capacity	20 slide baskets
Throughput slides	up to 1,800 per hour
Volume staining/washing cuvette	400ml
Quantity washing cuvettes	up to 6
Loading/unloading stations	5 slide baskets each
Programmes	20 programmes, with up to 20 steps each
Incubation period	5 seconds up to 1 hour
Exhaust/exhaust air volume	up to 200m <sup>3</sup> /h, Nominal diameter for rear connection to central extraction system Ø 100mm
UPS back up time	up to 4 hours
Dimensions (width x depth x height)	1,560 x 640 x 620mm
Weight	110kg

cromatec I 100–230V, 50/60Hz

Item No. 17000000





# cromatec II

cromatec II is based on model cromatec I but offers additionally a heating station. According to the users requirement, it can be used as de-paraffinisation or heating station. When this station is used as a de-paraffinisation station, the heating function is additionally supported by a laminar air flow to warm up uniformly and quickly the slides in the slide basket.

## Highlights

- Integrated heating station
- Alternatively usable for de-paraffinisation or heating
- Easy to remove for easy cleaning
- Intuitively programmable heating parameters

## Specifications

<b>Adjustable temperature range</b>	30°C up to 70°C
<b>Processing time</b>	0sec. up to 59min., 59sec.
<b>Dimensions</b> (width x depth x height)	1,560 x 640 x 620mm
<b>Weight</b>	115kg

cromatec II 100–230V, 50/60Hz

Item No. 17000001

## Standard components

<b>Basic instrument</b> (cromatec I or cromatec II)
<b>Staining cuvettes</b> (20 pcs)
<b>Washing cuvettes</b> (6 pcs)
<b>Heating station</b> (only cromatec II)
<b>Basket carrier</b> (6 pcs)
<b>Slide baskets</b> (6 pcs)
<b>Transport container with lifter</b>
<b>Xylene container</b> insert with cover for unloading station
<b>Supply and drain hose</b>
<b>Mains cable</b>
<b>Operation manual</b>

## Optional accessories

	Item No.
<b>Reagent warmer</b> (only cromatec II)	41000527
<b>Adapter clip for SAKURA basket</b> (20 slide baskets)	41000900
<b>Further adapters on request</b>	



## Under control

7" touch display for real-time process monitoring as well as fast and direct interaction with the device. Designed for easy and effective parameter settings, multilingual.



## Process monitoring

All steps and their individual duration are clearly visible and under control; at any time. Start and end times are explicitly recognizable to control the workflow. Real-time monitoring via app on Smart device possible.



## Reagent management system

The Reagent Management System helps the user to schedule the exact timing of changing the reagents. This ensures reproducible, high-quality stainings run by run.



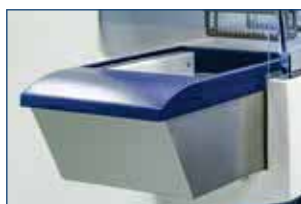
## Customized protocols

Up to 20 user-defined protocols can be saved under individual designations. The cromatec stainer enables the user to define the process time for each single step.



## Loading station

Continuous loading with using the loading station. Baskets are automatically taken out of the loading station when the cromatec can process the next staining step.



## Easy unloading

Easy unloading of 3 slide baskets with the special lifter. The removed baskets can be temporarily stored in the transport container that is also included in the standard equipment of the instrument.



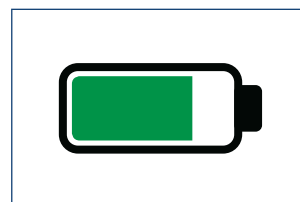
## Cuvette arrangement

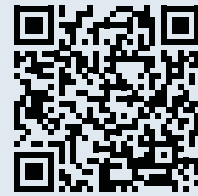
Easy unloading of 3 slide baskets with the special lifter. The removed baskets can be temporarily stored in the transport container that is also included in the standard equipment of the instrument.



## Safety

In case of a power failure the cromatec processes the staining up to 4 hours due to the integrated uninterruptible power supply (UPS) and finishes the protocols safely. The power failure is shown on the display and in the app.





## SLEE Device Manager app for cromatec I & II

Interruptions in the staining process lead to bad results and consequently to high manual reworking efforts and sometimes even to a loss of the specimen.

Bluetooth offers an easy possibility to connect tablets and smartphones with the cromatec.

The current status of the staining process in real-time can be monitored at any time with the SLEE Device View app. In case of an interruption (e. g. power failure) or an unauthorized interference (e. g. opening the hood) an information or warning message is provided by the app.

The app enables the user to monitor and display several cromatec stainer in parallel.



# MAS

## Multi protocol stainer

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

### Highlights

- 4 x loading stations
- 4 x unloading stations
- 6 x water baths for rinsing water
- 30 x staining stations with agitation
- Optional 2 drying stations (in combination with 4 water baths)
- Active carbon filter or the tubing for exhaust system
- Universal power input 100–230V, 50/60Hz



## Standard components

	MAS	MAS with conveyer to MCS I	MAS with drying stations	MAS with conveyer to MCS I and drying stations
Basic instrument	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operation manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 x loading station	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 x unloading station	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30 x staining cuvette (360ml)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 x washing cuvette	<input type="checkbox"/>	<input type="checkbox"/>		
4 x washing cuvette			<input type="checkbox"/>	<input type="checkbox"/>
2 x drying station			<input type="checkbox"/>	<input type="checkbox"/>
4 x slide holder (30 slides)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carbon filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mains cable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conveyer system to coverslipper MCS I		<input type="checkbox"/>		<input type="checkbox"/>

## Specifications

Max. number of program steps	40
Incubation time for each station	1sec. to 59min.
Drip collection	adjustable drain time from 0 to 9sec. patented drip collection technology
Stations, total including	44 4 loading stations 4 unloading stations 30 incubation stations with agitation 6 washing stations for running water
optional	2 drying stations (temperature adjustable from 40°C to 80°C) with 4 washing stations
Dimensions (width x depth x height)	1,210 x 670 x 640mm
Weight without accessories	115kg
Electrical parameters	100–230V, 50/60Hz, 100VA

MAS	Item No. 14000500
MAS with drying station	Item No. 14000502
MAS with conveyer system for coverslipper MCS I	Item No. 14000600
MAS with conveyer system for coverslipper MCS I and drying station,	Item No. 14000504



# Coverslipper

- MCS I · Automated Coverslipper (to be combined with MAS multiprotocol stainer)
- MCS II · Automated Coverslipper



## MCS I

### Automated Coverslipper

*(to be combined with MAS multiprotocol stainer)*

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.

#### Standard components

Basic instrument

Operation manual

8 x slide holder (30 slides)

2 x cover glass holder (50 and 60mm)

2 x carbon filter

Mains cable

#### Specifications

Processing speed 300–500 slides/h

Dispensing volume 30–150µl

Dimensions 630 x 670 x 640mm  
(width x depth x height)

Weight 65kg  
without accessories

Tissue Processors  
Embedding Centers  
Microtomes  
Cryostats  
Water Bath &  
Slide Warmer  
Staining Systems  
**Coverslipper**  
Cytocentrifuge  
Printers  
Ergotec Workplaces  
Consumables

MCS I 100–230V, 50/60Hz

Item No. 14000000



# MCS II

## Automated Coverslipper

The innovative cover slipping technology enables an increased throughput and high reproducibility. The MCS II coverslipper is equipped with highest quality standards, cover slipping is processed separately for each single glass. Fast and without bubbles. This method guarantees a reliable throughput. The coverslipper MCS II is an open and space saving system. The modular design simplifies the manual transfer of the sample holders to automation.

It offers a high throughput of 360 slides per hour regulated by a 7-step speed control. The system is applicable to micro slide racks of different automated staining systems and can be easily integrated into the workflow of a routine laboratory.

Device can also be operated with racks of other manufacturers. Please contact us if required.

### Standard components

**Basic instrument**

**Operation manual**

**8 x slide holder** (30 slides)

**2 x cover glass holder** (50 and 60mm)

**2 x carbon filter**

**Mains cable**

### Specifications

**Processing speed** 360 slides/h

**Dispensing volume** 40–200µl

**Dimensions** 500 x 540 x 640mm  
(width x depth x height)

**Weight** 59kg  
without accessories

MCS II 100–230V, 50/60Hz

Item No. 14000100



Tissue Processors  
Embedding Centers  
Microtomes  
Cryostats  
Water Bath &  
Slide Warmer  
Staining Systems  
Coverslipper  
**Cytocentrifuge**  
Printers  
Ergotec Workplaces  
Consumables

# CS Centrifuge

## Cytocentrifuge

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



### Highlights

#### 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 cytology funnels (reusable or disposable)
- Large volume ECOfunnel® (reusable or disposable)
- Absorption pads

#### 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

### Specifications

<b>Cytologyfunnel capacity</b>	Single: 0.5ml per chamber Double: 0.5ml per chamber ECOfunnel®: 5ml per chamber
<b>Rotor capacity</b>	up to 12
<b>Applicable rotors</b>	Cellclip-rotor (cytocentrifugation) Swing-out rotors (different sizes) Fixed angle rotors (different sizes)
<b>Centrifuge operation</b>	up to 6,000rpm (depending on the selected rotor), Timer 0–99min.
<b>Dimensions</b> (width x depth x height)	366 x 430 x 257mm
<b>Weight</b>	24kg
<b>Electrical parameters</b>	230V, 50–60Hz
<b>Safety</b>	Automatic rotor recognition Lid locking and holding

### Standard components

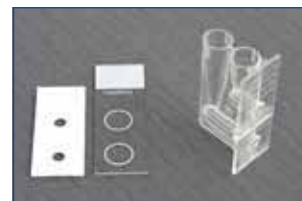
	CS centrifuge Open rotor	CS centrifuge Closed rotor
Basic instrument	☐	☐
Operation manual	☐	☐
Cellclip-rotor, open (12 positions)	☐	
Cellclip-rotor, closed (12 positions)		☐
12 x Cellclip (stainless steel)	☐	☐
12 x Cytology funnel, reusable	☐	☐
Filter card for Cytology funnel, reusable Item No. 39910001 Standard (200 pcs.)	☐	☐
200 Cellslides Item No. 39910003	☐	☐
Mains cable	☐	☐
	Item No. 15500000	Item No. 15500001

## Reusable preparation systems

<b>Single cytology funnel, reusable</b>	<b>Item No.</b>
<b>Cellclip</b>	39910031 (1 pc.)
<b>Cytology funnel</b>	39910000 (12 pcs.)
<b>Filter card</b> (only for cytology funnel 39910000) up to 0.5ml	39910001 (200 pcs.)
<b>Filter card</b> (only for cytology funnel 39910000) thin < 0.4ml	39910006 (200 pcs.)
<b>Cellslides</b> , single circle, uncoated	39910002 (100 pcs.)
<b>Cellslides</b> , single circle, coated	39910003 (100 pcs.)



<b>Double cytology funnel, reusable</b>	<b>Item No.</b>
<b>Cellclip</b>	39910031 (1 pc.)
<b>Double cytology funnel</b>	39910010 (12 pcs.)
<b>Filter card</b> for double cytology funnel up to 2 x 0.5ml	39910011 (500 pcs.)
<b>Cellslides</b> , double circle, uncoated (only for double cytology funnel, reusable 39910010)	39910012 (100 pcs.)
<b>Cellslides</b> , double circle, uncoated (only for double cytology funnel, reusable 39910010)	39910013 (100 pcs.)



<b>ECOfunnel®, reusable</b>	<b>Item No.</b>
<b>Cellclip</b>	39910031 (1 pc.)
<b>ECOfunnel®</b>	39910020 (12 pcs.)
<b>ECOseal</b> for ECOfunnel®	39910021 (100 pcs.)
<b>ECOSlides</b> , coated	39910022 (100 pcs.)



## Accessories and consumables for third party products

All components of the CS centrifuge series like funnels, filter cards and slides are compatible to the Thermo Fisher/Shandon Cytospin series. To use CS centrifuge consumables in this third-party product, just simply replace the original clip with the CS series Cellclip Item No. 39910030.



## Disposable preparation systems

EASY cytology funnel can only be used in Thermo Cytospin or with the EASY rotor of the CS Centrifuge!

<b>EASY Single cytology funnel</b> with white filter card, up to 0.5ml	<b>Item No.</b> 39910090 (200 pcs.)
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<b>EASY Double cytology funnel</b> with white filter card, up to 2 x 0.5ml	<b>Item No.</b> 39910091 (200 pcs.)
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## Disposable preparation systems

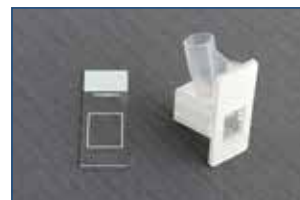
<b>Single cytology funnel, disposable</b>	<b>Item No.</b>
<b>Cellclip</b>	39910031 (1 pc.)
<b>Single cytology funnel, up to 0.5ml</b>	39910004 (100 pcs.)
<b>Single cytology funnel, &lt; 0.5ml</b>	39910005 (500 pcs.)
<b>Cellslides, single circle, uncoated</b>	39910002 (100 pcs.)
<b>Cellslides, single circle, coated</b>	39910003 (100 pcs.)



<b>Double cytology funnel, disposable</b>	<b>Item No.</b>
<b>Cellclip</b>	39910031 (1 pc.)
<b>Double cytology funnel,</b> Sample chamber with 2 shifted holes, up to 2 x 0.5ml	39910014 (100 pcs.)
<b>Cytology funnel,</b> Sample chamber with 2 shifted holes, up to 2 x 0.5ml	39910015 (500 pcs.)
<b>Cellslides, double circle, uncoated</b> (only for double cytology funnel 39910015)	39910016 (100 pcs.)



<b>ECOfunnel®, disposable</b>	<b>Item No.</b>
<b>Cellclip</b>	39910031 (1 pc.)
<b>ECOfunnel®, shifted, up to 5ml</b>	39910023 (100 pcs.)
<b>ECOfunnel®, shifted, up to 5ml</b>	39910024 (500 pcs.)
<b>ECOSlides, coated</b>	39910022 (100 pcs.)



## Rotors

**Rotor (closed)**  
CS centrifuge, removable,  
12 positions  
**Item No.** 39910100



**Rotor (open)**  
CS centrifuge, removable,  
12 positions  
**Item No.** 39910050



**EASY-Rotor (closed)**  
12 positions, without stainless steel clips,  
for EASY/Double cytology funnel

**Item No.** 15500600

**EASY-Rotor (open)**  
12 positions, without stainless steel clips,  
for EASY/Double cytology funnel

**Item No.** 15500601



**Swing-out rotor 8-point**  
for 15ml  
**Item No.** 39910042



**Swing-out rotor 6-point**  
for 50ml

**Item No.** 39910043

**Adapter for 15ml**  
**Item No.** 39910044





## printtec s

### Slide printer

SLEE's printtec s slide printer can significantly increase the efficiency of your lab while helping to reduce the risk of misidentification of specimens. It prints directly onto slides, eliminating handwriting or expensive, difficult to apply xylene-resistant labels. With impressive 300 dpi print resolution, you can print text, graphics and logos along with high-resolution linear and 2D bar codes on every slide you process. printtec s is also a COLOR slide printer. This revolutionary feature lets you purchase and keep inventory of only one slide color – plain white. With the slide printer, you can print a wide range of colors and patterns for faster identification.

### Highlights

- On-demand, full-color or black printing text, graphics, linear and 2D barcodes
- Reduce inventory hassle of various colored slides by using just a white slide and print with color
- Output tray capacity: 15 slides
- 100 slide capacity cassettes with programmable identification chip and slide counter
- Prints directly onto slides
- Small footprint – fits perfectly next to the microtome or the slide processor
- Chemical and UV resistant print to withstand processes, commonly used in laboratories. Even after several years slides can be reliably identified
- USB 2.0 Interface for easy direct connection to Windows 7/10 based PCs and Tablets

### Specifications

<b>Capacity</b>	
Input	100 slide cassettes, programmable ID, slide counter
Output tray	15 slides
<b>Printing speed</b>	
Black	9 slides/min.
Monochrome	5 slides/min.
Multicolor	4 slides/min.
<b>Dimensions</b> (width x depth x height)	
180 x 320 x 218mm	
<b>Weight</b> without accessories	
7,6kg	
<b>Electrical parameters</b>	
100–230V, 50/60Hz	

## Direct print

Prints directly onto slides – eliminates handwriting or labels that are hard to apply and can potentially fall off or cause jams in your slide processing instruments.



## Free software

Free PTLab™ software – template-driven software for your individual design and data workflow and configurable data stream connection to LIS systems.



## Easy handling

Easy to use printtec s is designed for efficient, hands-free operation. Slides are stored in easy-to-load cartridges – away from dust and other potential contaminants. It takes just a few seconds to change out the cartridge if you need standard slides for one study and positively-charged slides for others. The level of slides remaining in a cartridge is easily viewed through the cartridge's transparent blue LED back-lit case.



### Standard components

Basic instrument

Blue slide magazine

1 x universal black ribbon

SLEE medical slides

USB cable

printtec cleaning pen

Mains cable

Memory card with operation manual and supporting manuals

Quick start guide, hardcopy

### Optional accessories

Item No.

Extended slide tray magazine for 100 slides 39300003

Colored ribbon for printtec s standard and high pressure and printtec c, TC 1 39300008

Colored ribbon for printtec s standard, TC 2 39300007

Colored ribbon for printtec s standard and high pressure 39300005

Black ribbon for printtec s standard and high pressure and printtec c, TC 1 39300006

Black ribbon for printtec s standard, TC 2 39300009

Blue slide magazine for 100 slides 39300002

printtec cleaning pen 39300015

Datalogic Medical Grade 2D Barcode Scanner incl. stand 39300011

Printhead 39300001

PTNet Server 39300014

Further accessories on request

printtec s 100–230V, 50/60Hz Item No. 10050001

printtec s high pressure feature 100–230V, 50/60Hz Item No. 10050004

## Extended slide tray magazine

Output extension for the printtec s, slide printer

The output extension of up to 100 slides enables the printtec s to print larger quantities of slides without interruption.

## Highlights

- Ideal for printing larger jobs of up to 100 slides can be printed if required.
- Inexpensive solution for batch processing, avoiding waiting times.
- Removable slide stainless steel container for amounts up to 100 slides for continuous operation.
- Simple, low-maintenance mechanical design.
- Easy installation on the printtec s



Extended slide tray magazine for 100 slides Item No. 39300003



## printtec c

### Single cassette printer

SLEE's cassette printer printtec c can significantly increase the efficiency of the laboratory and at the same time reduce the risk of misidentification of specimens. The user can print manually loaded cassettes with texts, graphics and logos along with linear and 2D bar codes directly onto the printing surface of the cassettes. This enables a more efficient workflow and additionally increases the safety for the patient.

### Highlights

- Modular design
- Cassette printer is easy and quick to install
- Single cassette capacity for on-demand print
- For standard cassettes with 35° to 45° angles with either lid on or off, no adjustments needed
- High print speed
- USB 2.0 interface for easy and direct connection to PCs and tablets based on Windows 7 / 8.1 / 10

### Specifications

<b>Capacity</b>	
Input	Insert 1 cassette for printing and remove it after printing manually
Output	1 cassette The next cassette follows, etc.
<b>Printing speed: single cassette printing</b>	
Black	8 cassettes/min.
Monochrome	5 cassettes/min.
Multicolor	4 cassettes/min.
<b>Dimensions</b> (width x depth x height)	
222 x 244 x 244mm	
<b>Weight</b> without accessories	
7,6kg	
<b>Electrical parameters</b>	
100–230V, 50/60Hz	

## Direct print

Prints directly onto cassettes – eliminates handwriting or labels that are hard to apply and can potentially fall off.



## Free software

Free PTLab™ software – template-driven software for your individual design and data workflow and configurable data stream connection to LIS systems.



## Easy handling

Easy to use printtec c is designed for efficient, hands-free operation. Taped cassettes are easily loaded into individual hoppers. The level of cassettes remaining is easily viewed through the front of the hopper's transparent blue LED back-lit case.



## Single cassette printer

One cassette is manually loaded at a time. Print speed is extremely fast at about six seconds per cassette.



## Autoloader version

Autoloader only functional with printtec c printer also available.  
4 x 40 cassettes lid on/off and 35° or 45° angles can be automatically batch loaded. Print speed is extremely fast at about 8 cassettes per minute.



### Standard components

<b>Basic instrument</b>
<b>Stack of cassettes</b>
<b>1 x universal black ribbon</b>
<b>USB cable</b>
<b>printtec cleaning pen</b>
<b>Mains cable</b>
<b>Memory card</b> with operation manual and supporting manuals
<b>Quick start guide</b> , hardcopy

### Optional accessories

	Item No.
<b>Colored ribbon</b> for printtec s standard and high pressure and printtec c, TC 1	39300008
<b>Colored ribbon</b> for printtec s standard, TC 2	39300007
<b>Colored ribbon</b> for printtec s standard and high pressure	39300005
<b>Black ribbon</b> for printtec s standard and high pressure and printtec c, TC 1	39300006
<b>Black ribbon</b> for printtec s standard, TC 2	39300009
<b>printtec cleaning pen</b>	39300015
<b>Datalogic Medical Grade 2D Barcode Scanner</b> incl. stand	39300011
<b>Printhead</b>	39300001
<b>PTNet Server</b>	39300014
<b>Further accessories on request</b>	

printtec c 100–230V, 50/60Hz

Item No. 10050002





# Autoloader

## Batch printer\*

The expansion of the cassette printer printtec c with the autoloader offers even more efficiency to the workflow of the laboratory while reducing the risk of misidentification of specimens. The autoloader is designed for efficient and hands-free operation. The four cassette reservoirs tremendously increase the possible cassette prints. Slotted cassettes are simply loaded into one of the four individual trays. The quantity of remaining cassettes can be easily controlled through the front of the transparent tray, illuminated with blue LED backlight, but is additionally displayed on the LCD screen.

### Highlights

- 4 transparent cassette reservoirs with a capacity of 40 cassettes/each
- Capacity of 160 cassettes for on-demand or batch mode printing
- Output capacity: 7 cassettes expandable up to 17 cassettes with extension trays
- Extension tray can also carry cassettes to the processing table
- Prints on standard cassettes with 35° to 45° angles with either lid on or lid off, no adjustments needed
- Printing speed: up to 8 cassettes per minute (black prints)
- Printing speed: up to 5 cassettes per minute (monochrome)
- Printing speed: up to 4 cassettes per minute (multicolored)
- USB 2.0 interface for easy and direct connection to PCs and tablets based on Windows 7/8.1/10

*\*only in combination with printtec c*

## Direct print

Prints directly onto cassettes – eliminates handwriting or labels that are hard to apply and can potentially fall off.



## Free software

Free PTLab™ software – template-driven software for your individual design and data workflow and configurable data stream connection to LIS systems.



## Easy handling

Easy to use printtec c is designed for efficient, hands-free operation. Taped cassettes are easily loaded into individual hoppers. The level of cassettes remaining is easily viewed through the front of the hopper's transparent blue LED back-lit case.



## Single cassette printer

Manual version also available. One cassette is manually loaded at a time. Print speed is extremely fast at about six seconds per cassette.



## Autoloader version

**Autoloader only functional with printtec c printer.**  
4 x 40 cassettes lid on/off and 35° or 45° angles can be automatically batch loaded. Print speed is extremely fast at about 8 cassettes per minute.



### Specifications

<b>Capacity</b>	
Input	4 x 40 cassettes hoppers
Output	7 cassettes,
Output Extension tray	10 cassettes, manifold extendable +10, +10, +10 cassette trays
<b>Printing speed</b>	
Black	8 cassettes/min.
Monochrome	5 cassettes/min.
Multicolor	4 cassettes/min.
<b>Dimensions</b> (width x depth x height)	304 x 658 x 490mm
<b>Weight</b> without accessories	33,6kg
<b>Electrical parameters</b>	110–230V, 50/60Hz

### Standard components

<b>Basic instrument</b>	
<b>Autoloader hoppers incl. separator, set of 4</b>	
<b>6-pin-mini-DIN cable</b>	
<b>Cassettes extension tray</b>	
<b>Mains cable</b>	
<b>Memory card</b> with operation manual and supporting manuals	
<b>Quick start guide</b> , hardcopy	

### Optional accessories

	Item No.
<b>Autoloader hoppers</b> incl. separator, set of 4	39300004
<b>Extension tray for Autoloader</b>	10510000
<b>6-pin-mini-DIN cable</b>	39300017
<b>Further accessories on request</b>	

\*Note: Autoloader cannot be used without printtec c.

**Autoloader** for cassette printer printtec c **Item No. 10050003\***  
110–230V, 50/60Hz

# *ergotec workplaces*



Tissue Processors

Embedding Centers

Microtomes

Cryostats

Water Bath &  
Slide Warmer

Staining Systems

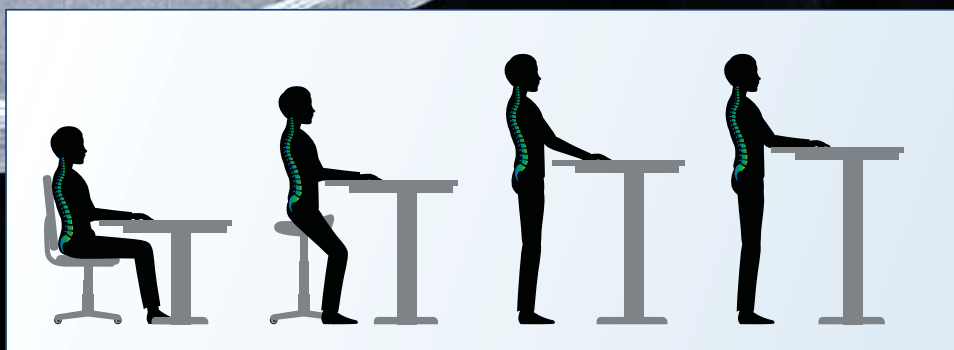
Coverslipper

Cytocentrifuge

Printers

**Ergotec Workplaces**

Consumables





# ergotec workplaces

## Ergonomic design

Physiotherapists and occupational physicians increasingly attach great importance to the ergonomic design of workplaces, in particular the height adjustment of working desks. These desks help to avoid premature fatigue and joint and back pain while working. The worktables of the ergotec series support this comprehensively.

Four different table heights can be saved electronically and recalled by simply pressing a button. This enables users to set their desired working height at any time and adapt it to their current needs. The use of seat recesses in the table creates optimal seating and working comfort for the user. Due to the design of the tables, it is easily possible to change between sitting and standing work.

### Stable

Our ergonomic workstations are suitable for many applications. The dimensions, heights and colors are largely customizable. As the tables can be designed according to the customers needs, we are able to create the desired workplace dependent on the respective spatial requirements.

The integration of various modules, such as cooling plate and water bath, in the tabletop is possible. The placement of the modules is also done individually on customer request.

### Options

Cooling plate

Water bath

Cable channel \*

Workplace LED illumination \*

Under-table drawer \*

\* (for more details contact us)



Programmable height adjustment



Water bath (integrable)



Cooling plate (integrable)

### Specifications

<b>Range of height adjustment</b>	66 to 130cm
<b>Programmable height levels</b>	4 memory settings
<b>Maximum load</b>	400kg
<b>Thickness of the table top</b>	30mm
<b>Standard dimensions</b> (customization possible regarding size and colors)	180 x 80cm
<b>Cooling plate dimensions</b>	30 x 32cm
<b>Temperature range</b>	+15°C to -15°C
<b>Water bath dimensions</b>	26 x 21.4 x 6cm
<b>Temperature range</b>	RT to 85°C



# *Consumables*

- High Quality plasma blades
- Tissue Embedding Paraffin
- High Quality Slides
- High Quality Coverslips



Tissue Processors  
Embedding Centers  
Microtomes  
Cryostats  
Water Bath &  
Slide Warmer  
Staining Systems  
Coverslipper  
Cytocentrifuge  
Printers  
Ergotec Workplaces  
**Consumables**



# High Quality plasma blades

LPS, LPH, HPS

The SLEE blades for microtomes feature a special plasma technology, that considerably improves the sharpness as well as the durability of the blades.



## LPS

Description	Item No.	Packing
<b>Low profile plasma blade LPS</b> for soft specimens	28407005	50 pcs./box



## LPH

Description	Item No.	Packing
<b>Low profile plasma blade LPH</b> for hard specimens	28407004	50 pcs./box



## HPS

Description	Item No.	Packing
<b>High profile plasma blade HPS</b> for soft specimens	28407007	50 pcs./box

# Tissue Embedding Paraffin

## paratec *premium*

paratec *premium* consists of highly purified paraffin with the addition of polymer for precise embedding and sectioning. Melting range 54–57°C



paratec <i>premium</i>		
Description	Item No.	Packing
High quality paraffin for precise tissue embedding	30010004	8 x 1kg
	30010006	4 x 2.5kg
	30010008	10kg

# High Quality Slides/Coverslips

The SLEE StarFrost® Coverslips in 3 different sizes, made for automatic coverslipping, and the SLEE StarFrost® Slides in different styles and colors are perfect for the applications with the SLEE printtec s slide printer.



## Slides

Description	Item No.	Packing
<b>StarFrost® Slides</b> 26 x 76 x 1.0mm, ground edges 90°, clipped slide corners 45° angle, color frosted marking area about 20mm (available in white, orange, blue, green, yellow, pink)	On request	50 pcs./box
<b>StarFrost® Slides</b> 26 x 76 x 1.0mm adhesive, ground edges 90°, clipped slide corners 45° angle, color frosted marking area about 20mm (available in white, orange, blue, green, yellow, pink)	On request	50 pcs./box
<b>StarFrost® Slides</b> 26 x 76 x 1.0mm advanced adhesive, ground edges 90°, clipped slide corners 45° angle, color frosted marking area about 20mm (available in white, orange, blue, green, yellow, pink)	On request	50 pcs./box



## Coverslips

Description	Item No.	Packing
<b>StarFrost® Coverslips</b> 24 x 50mm	30001051	100 pcs./box
<b>StarFrost® Coverslips</b> 24 x 55mm	30001052	100 pcs./box
<b>StarFrost® Coverslips</b> 24 x 60mm	30001053	100 pcs./box

# Service

SLEE medical strives to provide first-class care and support to its customers all over the world. We offer a reliable and fast field service. Service calls outside Germany should be directed to 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	<b>+49 6131 95871-0</b>
Service E-mail	<b><a href="mailto:service@slee.de">service@slee.de</a></b>

## Service and application training

Well trained staff is the prerequisite for timely service and high quality. Therefore, SLEE frequently offers 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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