



SEE solutions for pathology

PRODUCT CATALOG







We are commited to teamwork and support; we give our best to provide both to our clients day by day!"

Stefan Schock • CEO Slee – Solutions for pathology

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.

Stefan Schock Managing Director





Slee Product Catalog

Content

Tissue processors	6	Staining systems	84
MTP · Carousel tissue processor	8	MSM · Carousel slide stainer	86
MTM / Vacuum tissue processor	10	Cromatec I / II · Flexible staining system	
		with highest throughput	88
Embedding centers	14	MAS Multi protocol stainer	90
MPS PI · Compact paraffin embedding center	16		
MPS PII · Modular paraffin embedding center	18	Coverslippers	100
MPS P · Dispensing module	20	MCS I · Coverslipper (to be combined with MAS)	102
MPS W · Pre-warming module	22		
MPS C / CX · Cooling module	24	Centrifuges	104
		CS I / II · Cytocentrifuge	100
Microtomes	26	Accessories	110
CUT 4062 · Manual precision microtome	30		
CUT 5062 · Semi-automatic		Printers	114
precision microtome	34	Printtec S · Slide printer	118
CUT 6062 · Fully-automatic		Printtec C · Single cassette printer	122
precision microtome	38	Autoloader · for batch printing	
Aquatec · Transfer system for microtomes		and color variations	120
of CUT series	44		
Accessories	46	Ergonomic workplaces	130
Cuttec S · Manual sliding microtome	50	Ergosit · Laboratory chair	132
Polycut Legacy · Heavy duty microtome	54	Ergotec · Worktable	134
Accessories	58		
Control unit	60	Consumables	138
LN2 liquid nitrogen	62	Disposable blades · plasma coated	139
		Paraffin for tissue embedding ·	
Cryostats	70	Paratec Premium	140
MEV / MEV + · Routine cryostats	74	Slides / coverslips	14
MNT · High-end cryostat	77	Consumables for cryostats	14
Accessories	79		
		Service	142
Water baths & slide warmers	80		
Slidetec Water / Heat	82		
Slidetec Heat	82		
Slidetec Water	83		
Slidetec Water S	83		

Some of the images in this catalog may show special equipment and / or accessing the second control of the se sories that are subject to a charge. The image may differ slightly in appearance from the product. Errors excepted. Subject to changes and improvements without further notice.

Tissue processors

Slee tissue processors stand for gentle and safe specimen processing. The tissue processors from Slee are optimally adapted to the needs of a wide variety of laboratories.





MTP

Carousel tissue processor

MTM

Vacuum tissue processor

MTP

Carousel tissue processor

The MTP carousel tissue processor guarantees gentle and highly reliable specimen processing in connection with state of the art control features. The specimen throughput can be doubled to 240 cassettes per run with a second transport basket. To improve the processing of tissues, the device can optionally be equipped with vacuum units for all paraffin beakers. An integrated battery ensures highest process safety even in environments with frequent power failures.



Highlights

- Unique rotating reagent beaker table principle allows access to cassette basket(s) and beakers from front
- Integrated uninterruptible power supply
- Up to 240 cassettes per run (optional)
- System status monitor display and status LEDs
- · Password protection
- · Intuitive control panel
- Delayed start function
- · Remote alarm modul
- Integrated fume hood and ventilation system with carbon filter



Item No.

MTP 100 - 230 V, 50/60 Hz

11000200

Standard components

Options

incl. carbon filter

Reagent beakers (plastic [POM], white, 10 pcs.)
Heated paraffin beakers (aluminum, 2 pcs.)
Transport basket (stainless steel, 1 pcs.)
Labelling set for reagent beakers (1 pcs.)
Transport basket lid (1 pcs.)
Mains cable
Manual

Specifications

Reagent beakers capacity	plastic [POM], white 2,000 ml
Heated paraffin beakers capacity	aluminum, anodized, double walled 2.000 ml
Transport basket capacity	stainless steel up to 120 standard cassettes
Programming	20 programs, freely programmable
Electrical parameters	100 - 230 V, 50/60 Hz
Dimensions (w x d x h)	850 x 850 x 750 mm
Weight w/o accessories	80 kg

Fume hood for MTP / MSM (Perspex)	11000220
Vacuum unit (paraffin) 1 process basket and 2 paraffin beakers	11000223
Vacuum unit (paraffin) 2 process baskets and 3 paraffin beakers (only in combination with 11000221)	11000224
Vacuum unit (reagent & paraffin) 1 process basket and 2 paraffin beakers	11000225
Vacuum unit (reagent & paraffin) 2 process baskets and 3 paraffin beakers (only in combination with 11000221)	11000226
All reagent beakers (aluminum)	11000222
Remote alarm module (GSM)	11000273
TWIN basket for MTP	11000221
Exhaust fan system	

Item No.

11000211

Optional accessories	Item No.	
Reagent beaker		
(aluminum, 1 pcs.)	11000229	
Reagent beaker (plastic [POM], white, 1 pcs.)	11000251	
Heated paraffin beaker (aluminum)	11000252	
Transport basket (stainless steel) incl. holder and lid	11000253	
Carbon filter (spare)	11000254	
Organizer cartridge (stainless steel, 1 pcs.) for 65 cassettes	11000255	

MTM | / ||

Vacuum tissue processor

The Slee vacuum tissue processors **MTM I** and **MTM II** combine state of the art technology with comfortable handling and design. The tissue processor **MTM II** also offers a cost-efficient and user-friendly alternative for the fast specimen processing.

With the innovative EHE element (enhanced heat exchanger), the MTM II is the fastest and gentlest tissue processor without using microwaves with potential negative effects.

The system can be operated with traditional reagents or with most of the xylene and ethyl alcohol substitutes available on the market.

A user-friendly reagent management system and an optimized cleaning cycle routine are the basis for high cost efficiency and high turn-over. Simplify the daily laboratory routine. Process safety is guaranteed with an intelligent remote alarm system that communicates via mobile or internet.

Two functionalities – one device

Short processing time	High sample turnover		
45 minutes / run biopsies	300 samples / run routine		

Highlights

- Safe and fast tissue processing with prewarmed reagents
- · Fully automatic reagent management system
- · Automatic cleaning cycles
- · Intuitive control via 15"-TFT-display
- · Active carbon filter supported ventilation
- Remote alarm system (GSM)
- Decreasing aging factor (DAF) function for reagent economy and processing safety
- · Remote fill- / drain feature



Item No.

MTM	I 230 V.	50/60	Hъ

Vacuum tissue processor 11000500

MTM II 230 V, 50/60 Hz

Fast vacuum tissue processor 11000600

MTM I 115 V, 60 Hz

Vacuum tissue processor 11000501

MTM II 115 V, 60 Hz

Fast vacuum tissue processor 11000601







Intuitive control via 15"-TFT-display



Standard components	мтм і	MTM II
EHE element for preheated reagents		~
15"-TFT-display with touchscreen	•	~
2 cassette baskets (stainless steel, 150 cassettes each)	•	•
Reagent bottles (10 pcs.)	~	~
Paraffin bottles (4 + 1 pcs.)	•	~
Cleaning reagent bottles (2 pcs.)	~	~
Remote fill / drain tubings	~	~
Charcoal filter bottle	•	•
Condensate bottle	•	•
Mains cable	•	•
Manual	•	~

Specifications	мтм і	MTM II
Sample processing chamber capacity	300 stando	ard cassettes
Sample processing chamber temperature	up to 65°C	
Reagent bottles	10 (2.5 l eac	ch)
Paraffin bottles (quantity and capacity)	4+1(2.5 e	ach)
Electrical parameters	1,000 W	1,500 W
	115 or 230 V	, 50/60 Hz
Dimensions (w x d x h) w/o monitor with monitor	720 x 700 x 720 x 700 x	,
Weight (w/o accessories)	120 kg	135 kg

Optional accessories MTM I + II	Item No.
Cassette basket	39600061
Holder for cassette basket	39600062
Reagent bottle (2 necks)	39600030
Refill pack active carbon	39600268
Uninterruptible power supply (UPS) 230 V · 1,500 VA · 1,200 W (MTM I)	11000510
Uninterruptible power supply (UPS) 230 V · 2,200 VA · 1,760 W (MTM II)	11000504
Remote alarm system (GSM)	11000272

Embedding centers

Slee offers two ergonomic embedding centers for an optimized workflow for any lab size. **MPS P I** is a compact paraffin embedding center for space-saving setup, **MPS P II** is a modular system with maximum capacity and flexibility.





MPS PI

Compact paraffin embedding center

MPS PII

Modular paraffin embedding center with maximum capacity

MPS P | Compact paraffin embedding center

The space saving MPS P I is a complete paraffin dispensing unit including a 3.8 I paraffin container, two pre-warming areas for cassettes and molds, a heated working area and a cooling spot. The ergonomically elevated heated working area is illuminated by an adjustable LED light and allows comfortable embedding of specimens. The device comes with well-insulated, spacious hand rests. All functions of the device are controlled by an intuitive control panel including programmable working hours. Two heated trays provide a pre-warming capacity of 120 cassettes and 250 embedding molds each, summing up to a capacity of up to 240 cassettes or 500 embedding molds.

The paraffin flow can be activated manually or via foot switch, and has an adjustable flow rate. All under control: programming of temperature, working day, working time, time and date.





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MPS P I 230 V, 50/60 Hz	10190000
MPS P I 115 V, 60 Hz	10192000

Standard components

Pre-warming and dispensing module
Foot switch for paraffin dispenser
Magnifier, adjustable
Paraffin collection tray
Forceps holders, 2 pcs. for 3 forceps each, magnetic
Forceps (1 x blunt, 1 x pointed)
Cleaning spatula, black
Base molds 7 x 7 x 7 mm (stainless steel, 12 pcs.)
Base molds 24 x 24 x 7 mm (stainless steel, 12 pcs.)
Mains cable
Manual

Optional accessories

Item No.

Electrically heated forceps 0.5 - 4 mm

(straight, curved or angled) on demand

Base molds see MPS P

Specifications

Temperature range	up to 80°C, programmable
Cooling spot	50 x 50 mm, min5 °C, fix
Paraffin container (capacity)	3.8
Pre-warming area I (w x d x h) removable tray	up to 120 cassettes 125 x 205 x 40 mm
Pre-warming area II (w x d x h) removable tray	up to 250 molds 125 x 205 x 40 mm
Capacity pre-warming areas in total	up to 240 cassettes / up to 500 molds
Forceps holders 2 x 3	magnetic
Electrical parameters	115 V, 60 Hz 230 V, 50/60 Hz
Dimensions $(w \times d \times h)$	450 x 570 x 295 mm
Working area (w x d)	450 x 240 mm
Weight w/o accessories	22 kg



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 120 standard cassettes or 250 embedding molds are easily accessible, with a max. capacitiy of up to 240 cassettes or 500 embedding molds.

MPS P || Modular paraffin embedding center

The modular paraffin embedding center **MPS P II** 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 workflow requirements. The flexible 3-module system consists of a dispensing element **MPS P**, a pre-warming module **MPS W** and a cooling plate **MPS C** or **MPS CX**.

Highlights

- Manual lever and foot switch for paraffin dispensing
- · Spacious cooling spot
- Magnifier, adjustable
- Insulated hand rest for optimized work ergonomics
- Spacious and heated paraffin collection tray
- Paraffin container, volume 5.5 liters
- · Programmable operating times
- Magnetic forceps holders, easily adjustable
- · LED-illumination, adjustable
- Intuitive control panel
- Integrated heated wax trimmer, efficiently removes excess paraffin from any embedding tissue cassette
- Integrated connection for a large variety of electrically heated forceps





	n		

MPS P II 230 V, 50/60 Hz	10185000
MPS P II 115 V, 60 Hz	10187000



Standard components

Dispensing module MPS P

Pre-warming module MPS W

Cooling module MPS C for 80 cassettes

Foot switch for paraffin dispenser

Magnifier, adjustable

Paraffin collection tray

Forceps holder

Forceps (1 x blunt, 1 x pointed)

Cleaning spatula, black

Base molds 7 x 7 x 7 mm (stainless steel, 12 pcs.)

Base molds 24 x 24 x 7 mm (stainless steel, 12 pcs.)

Mains cable

Manual

MPS P

Dispensing module





Item No.

MPS P 230 V, 50/60 Hz	10170000
MPS P 115 V. 60 Hz	10172000

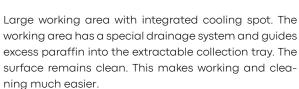
Optional accessories Item No.

Electrically heated forceps 0.5 - 4 mm (straight, curved or angled) on demand Base molds (stainless steel, 12 pcs.) 30030050 $7 \times 7 \times 7 \text{ mm}$ Base molds (stainless steel, 12 pcs.) 30 x 24 x 7 mm 30030051 Base molds (stainless steel, 12 pcs.) 15 x 15 x 7 mm 30030052 Base molds (stainless steel, 12 pcs.) 24 x 24 x 7 mm 30030053 Base molds (stainless steel, 12 pcs.) 37 x 24 x 7 mm 30030054 Base molds (stainless steel) Further sizes on demand

Specifications

Temperature range	up to 80 °C (paraffin container), up to 80 °C (working area), programmable
Paraffin capacity	5.5
Cooling spot	50 x 50 mm, min5 °C, fix
Forceps holders	2 x 4 adjustable (magnetic)
Illumination	3 LED spots, fixed 3 LED spots, adjustable
Magnifier	included, adjustable
Paraffin flow	activation manually or via foot switch, adjustable flow rate
Control	programming of temperature, working day, working time, time and date
Electrical parameters	115 V, 60 Hz 230 V, 50/60 Hz
Dimensions (w x d x h)	450 x 600 x 290 mm
Working area (w x d)	450 x 240 mm
Weight	18 kg

High throughput





Perfect workflow



The large-volume 5.5 I paraffin container allows a constant workflow. With perfectly adjusted light and easy to regulate flow, you will achieve excellent work results.

MPS W

Pre-warming module





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MPS W 230 V, 50/60 Hz	10180000
MPS W 115 V, 60 Hz	10182000

Pre-warming for molds



To have enough molds ready, the MPS W has a mold warmer for up to 500 molds. Temperature freely selectable up to 80 °C.

Pre-warming for cassettes



Take common baskets (like from the MTM tissue processor) and place them directly into the cassette area. The MPS W has a retractable lid for easy filling and operation.



Easy to clean

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

Specifications

Heated cassette area (w x d x h) removable tray	up to 320 cassettes 255 x 265 x 55 mm
Heated mold area (w x d x h)	up to 500 molds 260 x 220 x 70 mm
Temperature range	up to 80 °C (working areas)
Control	programming of temperature, working day, working time, time and date
Electrical parameters	115 V, 60 Hz 230 V, 50/60 Hz
Dimensions (w x d x h)	300 x 600 x 290 mm
Weight w/o accessories	15 kg

MPS C / CX Cooling module







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

Specifications MPS C

Temperature range	down to -15 °C
Cassette capacity	up to 80 cassettes
Control	programming of tempera- ture, working day, working time, time and date
Dimensions (w x d x h)	400 x 600 x 290 mm
Cooling area (w x d)	370 x 270 mm
Electrical parameters	115 V, 60 Hz 230 V, 50 Hz
Weight	26 kg

Specifications MPS CX

Temperature range	down to -15 °C
Cassette capacity	up to 120 cassettes
Control	programming of tempera- ture, working day, working time, time and date
Dimensions (w x d x h)	600 x 600 x 290 mm
Cooling area (w x d)	570 x 270 mm
Electrical parameters	115 V, 60 Hz 230 V, 50 Hz
Weight	35 kg

Optional accessories	Item No.	Optional acc
Transparent hood		Transparent hood
for cooling area MPS C	10175100	for cooling area Mi

Optional accessories	Item No.	
Transparent hood		
for cooling area MPS CX	on demand	



Avoid icing

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



Independent

With individual controls of temperature and working hours the MPS C and MPS CX are perfectly suited to be set up next to a microtome or an embedding station.







Microtomes

The high-precision 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 type **Cuttec S** and the automated heavy-duty sliding microtome **Polycut Legacy**.

All microtomes are equipped with highprecision guideways 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.

Overview Rotary microtomes



CUT 4062



CUT 5062



CUT 6062

CUT 4062

Manual precision microtome

Disposable blade holder

(alternatively: standard knife holder)

Manual, mechanical trimming function in 4 steps,

10; 20; 30; 40 µm

Manual feed with ergonomically located

coarse feed wheel

Specimen orientation

Acoustic signal at end positions

Automatic specimen retraction

Options

Section counter, reverse coarse feed, 2nd handwheel brake

Specifications

Cutting thickness 0.5 - $60~\mu m$

Horizontal advance 28 mm

Vertical stroke 60 mm

Specimen orientation

x/y axis 8° Rotation 360°

560 x 550 x 325 mm (w x d x h)

33 kg



CUT 5062

Semi-automatic precision microtome

Disposable blade holder

(alternatively: standard knife holder)

Motorized trimming function,

5 - 750 µm

Specimen orientation

2 specimen feed memory positions via button

Automatic motorized specimen retraction (adjustable)

Options

2nd handwheel brake

Specifications

Cutting thickness 0.5 - $100~\mu m$

Horizontal advance 28 mm

Vertical stroke 72 mm

Specimen orientation

x/y axis 8° Rotation 360°

520 x 600 x 325 mm (w x d x h)

33 kg

CUT 6062

Fully-automatic precision microtome

Disposable blade holder

(alternatively: standard knife holder)

Motorized trimming function,

5 - 750 µm

Motorized sectioning (4 cutting motor modes (single stroke, continuous, step, program)

Specimen orientation

2 specimen feed memory positions via button

Automatic motorized specimen retraction (adjustable)

Options

2nd handwheel brake

Specifications

Cutting thickness $0.5 - 100 \, \mu m$

Horizontal advance 28 mm

Vertical stroke 72 mm

Cutting speed variable

up to 450 mm/s

Specimen orientation

x/y axis 8° Rotation 360°

520 x 600 x 325 mm (w x d x h)

34 kg

CUT 4062 Manual precision microtome

The Slee 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 available. The **CUT 4062** combines highest precision with user friendliness as well as best comfort. Like all Slee microtomes, the **CUT 4062** comes with a complete set of standard components which can be individually adapted to customer's needs, ready to be used out of the box.



- · Ergonomic design
- Spacious, integrated section waste tray
- Wide range of accessories
- Handwheel lock in any position
- Blade holder levers changeable (for left-handed users)
- · Specimen retraction
- · Digital section counter

- · Second handwheel brake
- Coarse feed wheel reversible direction (on demand)
- · Lateral blade holder movement
- 4 trimming steps (10, 20, 30, 40 μm)
- · Acoustic end position alarm
- · Top compartment usable as an accessory tray



Item No.

CUT 4062 10065000

Standard components

Specir	nen o	rientat	ion
_	_		_

Universal cassette clamp, orientable (alternatively: standard specimen clamp, orientable)

Disposable blade holder

(alternatively: standard knife holder)

Section waste tray

Disposable blades, low profile

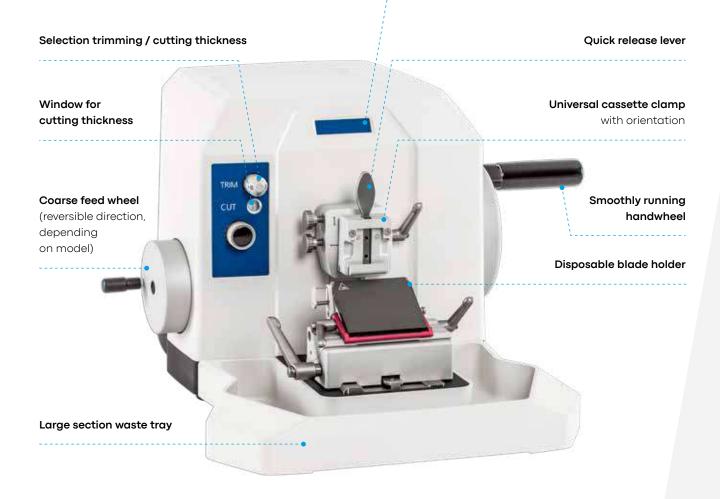
(1 box, 50 pcs.)

Dust cover

Manual

Specifications

Section thickness range	0.5 - 60 µm
Section thickness settings	0.5 - 2 µm in 0.5-µm-steps 2 - 10 µm in 1-µm-steps 10 - 60 µm in 2-µm-steps
Trim thickness settings	10 μm, 20 μm, 30 μm, 40 μm
Horizontal advance	28 mm
Vertical stroke	60 mm
Specimen retraction	automatic
Specimen orientation	x/y axis ± 8°, rotation 360°
Dimensions (w x d x h)	560 x 550 x 325 mm
Weight	33 kg





Optional accessories	Item No.
Aquatec system	10090056
MTR bench top quick freezing unit	10110000
Magnifier with illumination (dimmable)	10090060
2 nd lock handwheel	10090024
TC65 disposable blade holder (for tungsten carbide blades)	10090041
Tungsten carbide blade (1 pcs.)	28406000
Disposable blades (cf. consumables)	
Brush set (7 pcs., size 2 - 16)	₃₀₀₀₁₀₃₁ ne
Glass knife holder (for triangle glass knives)	10090014
Segment arc incl. universal sample holder	

Optional accessories	Item No.
Super Mega cassette clamp, orientable	10090027
Super Mega cassette clamp, fixed	10090021
Standard specimen clamp, orientable	10090006
Standard specimen clamp, fixed	10090007
Foil clamp (use in standard specimen clamp)	10090025
Standard knife holder (top part), incl. knife holder basis	10090008
Prism (set)	10090017
Round specimen holders (different diameters)	on demand
Section counter	10090020
More on request	



10090015

Easy to use

(for glass knife holder application)

Trim and cutting thickness are easily adjustable via the centrally located controls. Through the viewing window the set cutting thickness can be seen at any time.



Section counter

Optional digital section counter at eye level.

CUT 5062 Semi-automatic precision microtome

The Slee semi-automatic 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 available. The **CUT 5062** combines highest precision with user friendliness as well as best comfort. Like all Slee microtomes, the **CUT 5062** comes with a complete set of standard components which can be individually adapted to customer's needs, ready to be used out of the box.



Highlights

- · Ergonomic design
- · Spacious, integrated section waste tray
- · Wide range of accessories
- · Intuitive control panel
- · Handwheel lock in any position
- Blade holder levers changeable (for left-handed users)
- 2 operation modes (standard and rocking mode)
- Motorized trimming up to 750 μm, programmable

- Motorized advance / return of specimen (2 speeds)
- Display of section counter, section sum and remaining travel
- · Tip function for precise specimen approach
- 2 specimen feed memory positions
- · Variable retraction
- · External control panel
- · Second handwheel brake



Item No.

CUT 5062 100 - 240 V, 50/60 Hz 10070001

CUT 5062 100 - 240 V, 50/60 Hz (only usable in combination with Aquatec system, without blade holder; with universal cassette clamp)



Standard components

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.)

Dust cover

Mains cable

Manual

Specifications

Section thickness range	0.5 - 100 μm
- Gilyo	σ.σ 100 μπ
Section thickness settings	0.5 - 2 μm in 0.5-μm-steps 2 - 20 μm in 1-μm-steps 20 - 50 μm in 2-μm-steps 50 - 100 μm in 5-μm-steps
Trim thickness range	5 - 750 µm
Trim thickness settings	5 - 20 µm in 1-µm-steps 20 - 50 µm in 2-µm-steps 50 - 150 µm in 5-µm-steps 150 - 750 µm in 10-µm-steps
Horizontal advance	28 mm
Feed speed SLOW	75 / 150 / 300 / 600 µm/s
Feed speed FAST	3,000 µm/s
Vertical stroke	72 mm
Specimen retraction	0 - 200 µm, selectable
Specimen orientation	x/y axis ± 8°, rotation 360°
Electrical parameters	100 - 240 V, 50/60 Hz
Dimensions (w x d x h)	520 x 600 x 325 mm
Weight	33 kg





Optional accessories	Item No.
Aquatec system	10090056
MTR bench top quick freezing unit	10110000
Magnifier with illumination (dimmable)	10090060
2 nd lock handweel	10090024
External control panel CUT 5062	10090050
TC65 disposable blade holder (for tungsten carbide blades)	10090041
Tungsten carbide blade (1 pcs.)	28406000
Disposable blades (cf. consumables)	
Brush set (7 pcs., size 2 - 16)	30001031 ne
Glass knife holder (for triangle glass knives)	10090014
Segment arc incl. universal sample holder	

Optional accessories	Item No.
Super Mega cassette clamp, orientable	10090027
Super Mega cassette clamp, fixed	10090021
Standard specimen clamp, orientable	10090006
Standard specimen clamp, fixed	10090007
Foil clamp (use in standard specimen clamp)	10090025
Standard knife holder (top part), incl. knife holder basis	10090008
Prism (set)	10090017
Round specimen holders (different diameters)	on demand
More on request	
	Super Mega cassette clamp, orientable Super Mega cassette clamp, fixed Standard specimen clamp, orientable Standard specimen clamp, fixed Foil clamp (use in standard specimen clamp) Standard knife holder (top part), incl. knife holder basis Prism (set) Round specimen holders (different diameters)



10090015

Intuitive use

(for glass knife holder application)

Having a variety of features sometimes ends up in difficult usage, but not with the CUT 5062: The device 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.

37

CUT 6062 Fully-automatic precision microtome

The Slee fully-automatic 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 available. The **CUT 6062** combines highest precision with user friendliness as well as best comfort. The motorized sectioning combined with innovative features and accessories make the **CUT 6062** unique. Like all Slee microtomes, the **CUT 6062** comes with a complete set of standard components which can be individually adapted to customer's needs, ready to be used out of the box.



- Highlights
- · Ergonomic design
- · Spacious, integrated section waste tray
- · Wide range of accessories
- · Intuitive control panel
- · Handwheel lock in any position
- Blade holder levers changeable (for left-handed users)
- Highly 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 750 μm, programmable
- Motorized advance / return of specimen (2 speeds)
- Display of section counter, section sum and remaining travel
- Tip function for precise specimen approach
- · 2 specimen feed memory positions
- · Variable retraction
- · External control panel
- Second handwheel brake



Item No.

CUT 6062 100 - 240 V, 50/60 Hz 10080001

CUT 6062 100 - 240 V, 50/60 Hz (only usable in combination with Aquatec system, without blade holder; with universal cassette clamp)



10080010

Standard components

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
Dust cover
Mains cable
Manual

Specifications

Section thickness range	0.5 - 100 µm
Section thickness settings	0.5 - 2 µm in 0.5-µm-steps 2 - 20 µm in 1-µm-steps 20 - 50 µm in 2-µm-steps 50 - 100 µm in 5-µm-steps
Trim thickness range	5 - 750 µm
Trim thickness settings	5 - 20 µm in 1-µm-steps 20 - 50 µm in 2-µm-steps 50 - 150 µm in 5-µm-steps 150 - 750 µm in 10-µm-steps
Horizontal advance	28 mm
Feed speed SLOW	75 / 150 / 300 / 600 µm/s
Feed speed FAST	normal 3,000 µm/s
Vertical stroke	72 mm
Cutting speed	up to 450 mm/s
Specimen retraction	0 - 200 µm, selectable
Specimen orientation	x/y axis ± 8°, rotation 360°
Electrical parameters	100 - 240 V, 50/60 Hz
Dimensions (w x d x h)	520 x 600 x 325 mm
Weight	34 kg



Collapsible handle



The handle of the handwheel of the CUT 6062 can be folded in to increase safety when the cutting motor is in operation.



Comfort

For enjoying highest comfort when using CUT 6062, the device is delivered with a foot switch as a standard accessory.



Optional accessories	Item No.
Aquatec system	10090056
MTR bench top quick freezing unit	10110000
Magnifier with illumination (dimmable)	10090060
2 nd lock handweel	10090024
External control panel CUT 6062	10090051
TC65 disposable blade holder (for tungsten carbide blades)	10090041
Tungsten carbide blade (1 pcs.)	28406000
Disposable blades (cf. consumables)	
Brush set (7 pcs., size 2 - 16)	30001031 nev
Glass knife holder (for triangle glass knives)	10090014
Segment arc incl. universal sample holder (for glass knife holder application)	10090015

Optional accessories	Item No.
Super Mega cassette clamp, orientable	10090027
Super Mega cassette clamp with clamping lever and level, orientable	10090070
Super Mega cassette clamp, fixed	10090021
Standard specimen clamp, orientable	10090006
Standard specimen clamp, fixed	10090007
Foil clamp (use in standard specimen clamp)	10090025
Standard knife holder (top part), incl. knife holder basis	10090008
Prism (set)	10090017
Round specimen holders (different diameters)	on demand
More on request	



Intuitive use

Having a variety of features sometimes ends up in difficult usage, but not with the CUT 6062: The device 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 6062.

Beyond standard application

The high precision microtomes of the **CUT** series are the basis for almost all applications where high-quality sectioning is requested. Together with add-on equipment such as the **MTR** bench top quick-freezing unit or the **Aquatec** system the **CUT** microtomes are ready for any kind of high performance cutting in the field of medical and industrial applications.

Precise orientation



The specimen orientation on the x and y axis enables fast alignment of the specimens in the desired position.

Flexible



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

Easy to clean



The design of the CUT microtomes supports the simplest and easiest cleaning possible.

Section waste tray



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





Perfect fit

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



Best sight

To make even small biopsy samples visible, CUT microtomes can be equipped with a magnifier with dimmable illumination (optional).



Safety

The easy to operate handwheel can be locked in any position. This ensures user's safety as well as protection for the sample. The blade holder features a finger protection system for increased safety.



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 - ergonomics are just as important as the quality of the section. Fits perfectly on ergotec series workstations.

Aquatec Transfer system for microtomes of CUT series

The **Aquatec** system provides the solution to the daily challenges of cutting demanding paraffin sections. Already during the cutting process, the section is stretched due to the laminar water film. The volume flow of the water film can be adjusted at any time according to the cutting requirements.

When the transfer bridge is open, the cutting waste is guided straight into the waste container and condenses there. This massively reduces the volume. Frequent emptying of the cutting waste container is no longer necessary. With the bridge closed, the selected section slides gently directly into the temperature-controlled water bath.

In the illuminated water bath the section can be evaluated and selected. The high-quality sections can now be easily handled in the accustomed manner. All settings are carried out via the touch display on the front.





Item No.

Aquatec 100 - 240 V, 50/60 Hz 10090056

Aquatec 100 - 240 V, 50/60 Hz for MICROM /

ThermoFisher / Epredia - generation 1,

with one-piece base plate only

10090061

Aquatec 100 - 240 V, 50/60 Hz for MICROM /

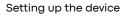
ThermoFisher / Epredia - generation 2,

with two cheeks blade holder mount only

new 10090062

new







Taking the sample

Specifications

Water bath temperature	up to 50 °C
Water bath volume	750 ml
Pump reservoir volume	570 ml
Flow rate	0 - 500 ml/min
Dimensions (w x d x h) microtome of CUT series incl. basic device Aquatec,	500 705 705
mounted	520 x 705 x 325 mm

Specifications

Dimensions (w x d x h) w/o transfer bridge, knife holder basic device	
mounted on microtome basic device	300 x 235 x 128 mm
not mounted on microtome	300 x 280 x 128 mm
Electrical parameters	100 - 240 V, 50/60 Hz
Weight basic device w/o transfer bridge, knife holder, incl. lid	5.0 kg

2.4 kg

knife holder AQ

CUT

External control panel

The external control panel allows the user to control the device from the left or right side of the unit. The greater distance is an additional protection from blades and moving parts.

te	m	N	O

External control panel CUT 5062	10090050
External control panel CUT 6062	10090051



- Free positioning due to long supply cable with 1.8 m length (suitable for right- and left-handers)
- · Reaching over the blade is avoided
- Same user interface of device and control panel
- Secure stand due to rubber feet, no slipping
- User-friendly shape



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.

Item No.

Magnifier with illumination 100 - 240 V, 50/60 Hz

10090060





- Rotatable and adjustable through flexible metal tube
- Lens (Ø 72 mm, diopter: 6)
- Light source: 63 x light-emitting diode (LED), neutral white
- Dimmer (touch function)

MTR

Bench top quick-freezing unit

The **MTR** quick-freezing unit consists of a compressor cooling system with a 2 m flexible isolation tube and a cooling block which can be adapted to a standard specimen clamp of different types of microtomes.



- · Low operating noise
- Self optimizing controller for temperature accuracy
- Manual defrost
- High cooling capacity down to -45 °C



Specifications			Item No.
Cooling capacity	down to -45 °C	MTR 230 V, 50/60 Hz for CUT series	10110000
Standard cooling head		MTR 230 V, 50/60 Hz for Cuttec S	10110001
Dimensions $(w \times d \times h)$	410 x 485 x 310 mm	MTR 115 V, 60 Hz for CUT series	10110002
Weight	28 kg	MTR 115 V, 60 Hz for Cuttec S	10110003

Slee Fresh Design. New Ideas.

Microtome Cuttec S

Manual sliding microtome with precise mechanics and flexible specimen orientation





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.

Specifications

Section thickness range	0 - 60 µm
Section thickness settings	0 - 15 μm in 1-μm-steps 15 - 60 μm in 5-μm-steps
Automatic feed	0 - 60 µm
Specimen feed	30 mm
Maximum specimen size	50 x 70 x 20 mm
Specimen orientation	x/y axis ± 8°
Length of cutting way	180 mm
Dimensions (w x d x h)	150 x 450 x 200 mm
Weight w/o accessories	18 kg

Item No.

Cuttec S 10040001



Safe and easy operation

Keeping the safety of the user and specimen in mind, e.g. by the locking mechanism or the finger protection system





Handle for cutting

Brake



Specimen orientation



Specimen orientation on the x and y axis allows quick alignment of the specimen to the desired position.

Finger protection

Manipulations with the inserted knife are risky. To prevent injuries, the red finger guard offers protection.



Waste tray

The waste tray included in the standard equipment perfectly fits to the housing and collects the cutting waste. Emptying is fast and easy.



Easy Operation

Operation is simple and all settings are within reach of the user. E.g. you can find the cutting thickness selection on the front side of the device. Simply set the number on the wheel.



Safety

Since the sledge of the Cuttec S is very smooth-running, it is important to brake it easily. This is achieved by the very easily accessible brake.

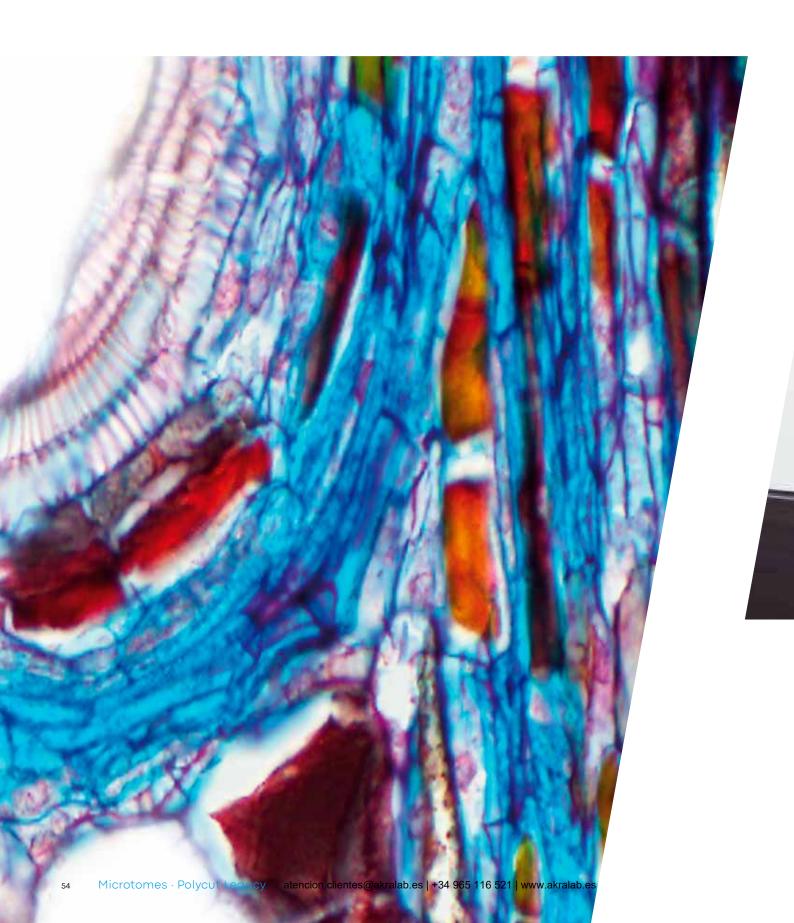


Perfect fit

The best microtome is nothing without the perfect blade. Slee offers both low and high profile blades that perfectly fit the Cuttec S.

Polycut Legacy

The Gold standard in microtomy for histology life sciences and material sciences is redefined!





Polycut Legacy

Heavy duty microtome Control unit LN2 liquid nitrogen

Polycut Legacy Heavy duty microtome

Made of metal.

Made for eternity.

Made in Germany.











Specifications microtome

Section thickness range	0 - 1,000 µm, adjustable in 1-µm-steps
Total horizontal specimen stroke	max. 275 mm
Total vertical knife feed	max. 70 mm
Knife retraction (during specimen return stroke)	0 - 1,000 µm, adjustable

Clearance angle		
adustment	0° - 17°	
Knife declination		
(with optional		

knifeholder)	45°
Killici lolder)	70
Maximum specimen	
size $(w \times d \times h)$	250 x 200 x 70 mm

Specimen orientation	
(along v/v axis)	50

Manual specimen movement (slow / fast)

(along x/y axis)	5°
Specimen orientation (rotation)	approx. +/- 3 and 90°
Sectioning speed	1 - 125 mm/s, adjustable in 1-mm-steps
Return speed	1 - 125 mm/s, adjustable in 1-mm-steps
Manual knife movement	
(slow / fast)	37 mm/s and 74 mm/s

37 mm/s and 74 mm/s

Specifications microtome

	Single, Continous, Interval and
	Multi (selectable either to be
Four motorized	used via the control panel or
sectioning modes	the foot switch)

Electrical connections

Nominal voltage	110 - 240 V
Nominal frequency	50 Hz - 60 Hz
Ampacity	4 A at 230 - 240 V / 10 A at 100 - 120 V
Maximum power draw	max. 900 VA
Protective class	I
Overvoltage category	Ш

Dimensions and weights

$\textbf{Microtome} (w \times d \times h)$	380 x 815 x 380 mm
Control unit	
(w x d x h)	340 x 290 x 180 mm
Required space for operating the machine	1,000 x 950 mm
Microtome	approx. 80 kg
Control panel	approx. 10 kg
Technical specifications subect to change.	

Overview

Knife holders, clamps & paraffin tables

Knife holders

Knife holder KH-P

for parallel-sided full tungsten carbide knives



Knife holder KH-P 45

with declination blocks for long pulling cuts at 45° to section even the hardest materials



Knife holder KH-S

for all standard knives or like seen in this picture with our insert D-I for all disposable low profile blades up to 22 cm width



Knife holder KH-S 45

for all standard knives with 45° declination blocks for more tricky paraffin sections



A wide range of equipment supports you in the application.



Clamps & paraffin tables

Basic clamp with vise

for specimen up to 80 x 100 mm, with top jaws for high specimen

- equipped with V-inserts for round specimen for different diameters
- it is the base to clamp all paraffin tables
- lateral movement to benefit from the whole width of the knife
- x/y-orientation in every direction



Round clamp

with inserts for 6, 15 and 25 mm



Object clamp

for specimen up to 44 x 58 mm

- lateral movement to benefit from the whole width of the knife
- x/y-orientation in every direction



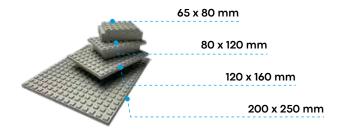
Insert D-TC

for the Knife holder KH-P to clamp disposable tungsten carbide knives up to a width of 8 cm



Paraffin tables

65 x 80 mm, 80 x 120 mm, 120 x 160 mm, 200 x 250 mm



Control unit

Everything at a glance on the control unit.



Fast alignment of the specimen to the knife with the dedicated touch screen for knife / sledge movements

Everything at a glance on the second screen

- · Everything at a glance on the control unit
- Iluminated buttons for Start, Pause and Stop that symbolize the actual state in the sectioning process
- Dedicated turnbutton for the sectioning feed for a quick change of values
- Dedicated turnbutton to change the sectioning speed
- · Big emergency-stop button





Second screen

- · Sectioning window
- Stop-position as selected
- Sectioning feed
- Retraction feed
- Cutting speed
- Return speed
- · Sectioning modes: Single, Continous, Interval or Multi Cuts (with a preselected amount of sections)



Professional photo-position

Acquire microscope pictures or surface photographs of oversectioned specimen by mounting some optional equipment on top Plug-in a 6.3 mm jackplug and control it through the software.



Optional foot switch

Foot switch with integrated emergency-stop function.



Safety features

Big emergency-stop button for your safety.



Illuminated buttons



Start, Pause and Stop symbolize the actual state in the sectioning process.

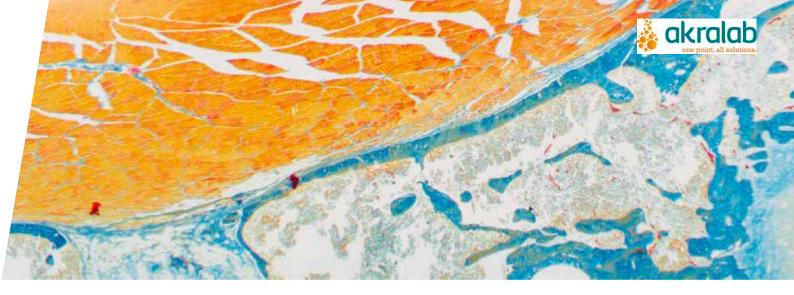
LN2

liquid nitrogen

Customized solutions: Paraffin tables can be turned into cryostages so fresh biological native specimen can be sectioned at ambient temperature. Each of our clamps can be turned into cryostages so e.g. foam or leather can be sectioned right at their glasspoint.



- Automatic advanced programmable LN2 microdosing system with PC controlled software
- Pressure-less flowing LN2, without spilling, noise, vibrations etc.
- 35 I dewar included
- Microdosing pump with flow-control from some drops up to 1 l/min
- · All connectors and cables included
- Your customized cryostage



Knives & resharpening service

Carbide knives

Full tungsten carbide knives parallell 16 cm 40° or 50°. Full tungsten carbide knives rotary 16 cm, D-edge or C-edge.



Standard knives

Standard knives from surgery steel 16, 22 and 30 cm, Dedge or C-edge.



Disposable blades

Disposable tungsten carbide blades TC65 with 65 mm width (5 pcs. per box).



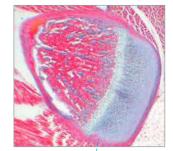
For more information please feel free to contact us directly.

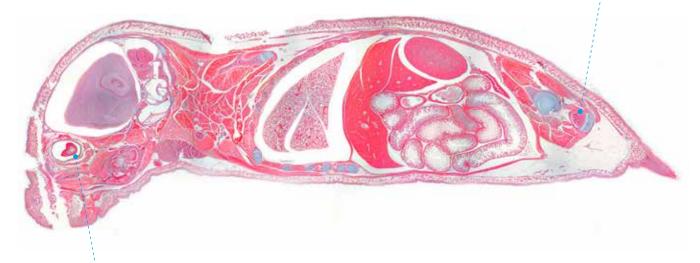
The whole thing is of interest ...

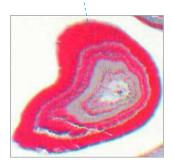
But the details should stay in focus!

250 mm

Whole body section of a mouse from a paraffin block: Multi acquisition picture from a microscope slidescan. Specimen up to **200 x 250 x 70 mm**.





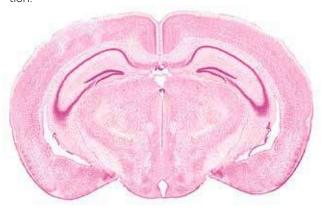




Sections of complete organs

E.g. whole brains, eye bulbs etc.

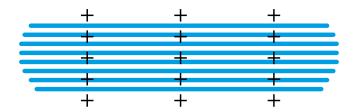
Whole brain section from a paraffin block for a later 3D stacking of microscope pictures for an organ reconstruction



Cross section a of complete eye bulb microscope picture from a slidescan of multi acquisition positions.



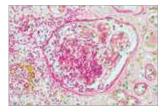
3D reconstruktion of whole organs with any number of serial sections.



200 mm

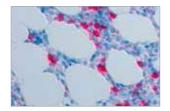
Tissues Biological specimens

When oversized or even hard tissues should be sectioned in one piece from paraffin, methyl-methacrylate or native like wood or bones with perfect sectioning results, it is time for the "Polycut Legacy"!



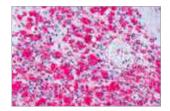
Human kidney

Whole organ section from a paraffin block, stained Tri-PAS.



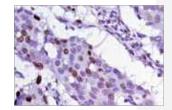
Human iliac crest

Section from an iliac crest embedded in MMA, stained CD79a



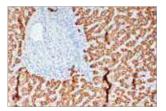
Human kidney

Whole organ section from a paraffin block for cancer research, stained Vimentin.



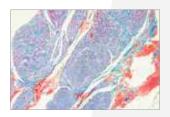
Human mamma

Whole organ section from a paraffin block for cancer research, stained Ki67.



Human liver

Whole organ section from a paraffin block for cancer research, stained HBVsAG.



Human prostate gland

Section from a whole human prostate gland in one paraffin block. While complete organ sections are primarily interesting in research, so even in routine diagnostics they can play an important role as you need to process less cassettes, have less sections and a quicker diagnosis.



Tissues Tricky and hard

When **undersized microtomes are far beyond their limits**, your research, your analysis and your target and goal is yet far away from being reached, then it is time for the next dimension of microtome, the "Polycut Legacy"!



Wood

Native section of an adult grapevine wood with a declinated section angle of 45°.



Bone

Bone section from a methyl-methacrylat embedded block stained Movat Pentachrom.*



Thigh bone

Complete in paraffin embedded femur, thigh bone, sectioned and stained Alcian Blue for slidescan of multiple microscope pictures.*



Vertebrae

Section through a complete vertebrae bone with muscles, stained Masson Goldner from a methyl-methacrylat embedding, microscopic slidescan from multiple pictures.*



Tooth

Whole longitudinally tooth section in a Goldner Anilinblue stain for a microscopic slidescan of the whole section.*



Implants

Cross section of a shinbone (tibia lat.) with implants in it, in a Goldner stain for a scan of the whole section area under the microscope - of course the implants moved out of the block within the section, but the 4 μm section was perfect.*

*With friendly help by the University Centre of Orthopaedics & Trauma Surgery of the University Hospital Carl Gustav Carus at the Technical University Dresden, Germany. Thanks to Suzanne Manthey.

Tissues

Material sciences

Every industrially manufactured component differs, as it comes from countless materials and substances forged together to one new thing. We know best that your are not sectioning paraffin like in hospitals! You need a microtome with **much more capacity, more power, more flexibility and especially more volume** for your very demanding preparations when other instruments are simply limited. Your solution has a name: "Polycut Legacy"



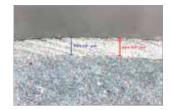
Undersea cable

Cross section of an undersea cable with a diameter of 8 cm (different metals & polymers combination) for inspection in a bright field microscope.



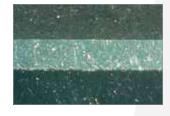
Aerospace

Oversectioned aerospace metal component to control the grain size distribution in the grid network.



Metal or plastic parts

Cross section through a two component material. Here two metals are merged together to form one piece. Coating thickness seems to vary in the production process as the measurements differ so it evidences insufficient quality tolerances.



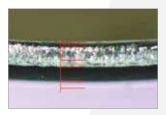
Tubes

Cross section through a tube which contains a metallic body and a plastic coating. The bonding quality of the synthetic coating is of interest by measureing the layer thickness.



Automotive

Corrosion analytics and weld seam testing on an automotive component with multiple pressed layers.



Coating layers

Coating layer measurements from a component put into MMA for sectioning. Microscopic picture from quality control process to validate production requirements.





Power cable

Oversection of a 7 cm in diameter (Ø) copper/plastic composite cable with V-inserts clamped to investigate the surface.



Gears

Cross section through a gear made from polyoxymethylen.



Power cable

Cross section of the above power cable with 250 μm when the copper leaves the composite while sectioning, but now one can investigate the pigment distribution in the now transparent plastic.



Carbon fibres

Cross section through a polyphenylenesulfide component with a high percentage of carbon fibres.



Glass fibres

Cross section of a polyamide component with a high percentage of glass fibres.

Cryostats

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





MEV / MEV +

Routine cryostat

MNT

High-end cryostat

Overview cryostats



MEV / MEV + Routine cryostat

Exchangeable standard knife or disposable blade holder

Specimen orientation

Low temperature storage area for up to 24 object holders

Power saving mode

Electronic advance of step motor

Selectable electronic retraction

Options

2 quick freezing positions

UV-C disinfection

Object cooling (-50 °C)

Debris extraction system

Specifications

Cutting thickness $0.5 - 100 \ \mu m$

Trimming thickness $0.5 - 750 \, \mu m$

Horizontal advance 28 mm

Vertical stroke 58 mm

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

Specimen holders 22 and 35 mm Ø, with grip protection

Cryochamber temperature 0 $^{\circ}\text{C}$ down to -35 $^{\circ}\text{C}$

Object head temperature 0 °C down to -50 °C Freezing shelf 10 °C less than chamber temperature setting

MEV 680 x 760 x 1,110 mm (w x d x h)

MEV 127 kg, MEV + 154 kg

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





MNT

High-end cryostat

Exchangeable standard knife
or disposable blade holder

Variable cutting motor speed

Specimen orientation

Low temperature storage area for up to 24 object holders

Power saving mode

Electronic advance of step motor

Selectable electronic retraction

Options

2 quick freezing positions

UV-C disinfection

Object cooling (-50 °C)

Debris extraction system

Spezifikationen

Cutting thickness $0.5 - 100 \, \mu m$

Trimming thickness 0.5 - 750 µm

Horizontal advance 28 mm

Vertical stroke 58 mm

Variable cutting speed 3 - 300 mm/s

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

Specimen holders 22 and 35 mm \varnothing , with grip protection

Cryochamber temperature 0 $^{\circ}\text{C}$ down to -35 $^{\circ}\text{C}$

Object head temperature 0 °C down to -50 °C Freezing shelf 10 °C less than chamber temperature setting

MEV +, MNT 750 x 760 x 1,110 mm (w x d x h)

154 kg

MEV / MEV +

Routine cryostat

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

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





	Item No.		Item No.
MEV 230 V, 50/60 Hz	10150000	MEV + 230 V, 50/60 Hz	10150700
MEV 115 V, 60 Hz	10153000	MEV + 115 V, 60 Hz	10150701
		MEV + including: UV-C disinfectio	n, 2 quick freezing

Standard components

Anti-roll plate, glas (2 pcs.)
Specimen holders (5 x Ø 22 mm; 5 x Ø 35 mm)
Section counter
Disposable blade holder (alternatively: standard knife holder)
Heat extractor (1 pcs.)
Rack for specimen holders (stainless steel)
Disposable blades (box with 50 pcs.)
CryoGlue embedding medium (125 ml)
Cryostat low temperature oil (50 ml)
Set of Allen keys
Clear-cut brush
Mains cable
Manual

Specifications

positions and object cooling

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



MEV stainless steel cryochamber with modern rotary microtome

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

Optional accessories	Item No.
Magnetic blade mover	34004113 ne
Standard knife holder	10156010
Specimen holder (Ø 22 mm; 5 pcs.)	30000002
Specimen holder (Ø 28 mm; 5 pcs.)	30000017
Specimen holder (Ø 35 mm; 5 pcs.)	3000000
Specimen holder (Ø 50 mm; 5 pcs.)	30000003
Rack for specimen holders (stainless steel)	31000769

Optional accessories	Item No.
Cover for cooling-bar	32000497
Cork plates (Ø 20 mm; 100 pcs.)	30001001
CryoGlue embedding medium (4 x 125 ml)	30001100
Clear-cut brush	30001030
Brush set (7 pcs., size 2 - 16)	30001031 new
Anti-roll plate, glas (40 x 26 x 3 mm)	32203206
Anti-roll plate, glas (70 x 26 x 3 mm)	32203307
Steel knife (16 cm-C-profile, 1 pcs.)	28000026
Disposable blades (cf. consumables)	
Footrest incl. height adjustment (MEV)	10157008
Footrest incl. height adjustment (MEV with object cooling, MEV + and MNT)	10157009 new
Ergosit laboratory chair	10157010
Additional cooling plate (on demand)	new

^{*} The specimen holders with Ø 22 mm, 28 mm, 35 mm come in 5 different colors for each size. The specimen holders with ${\it O}$ 50 mm are only available in black.



MNT

High-end cryostat

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



Highlights

- Modern rotary microtome with highprecision automatic feed
- Integrated section counter
- · Cutting motor with variable speed
- Large anti-roll plate
- Intuitive control
- Automatic defrost
- 24 freezing positions
- Debris extraction system
- · 2 quick freezing positions
- UV-C disinfection
- Object cooling

MNT 230 V, 50/60 Hz	10160000
MNT 115 V. 60 Hz	10162000

Standard components

Anti-roll plate, glas (2 pcs.)
Specimen holders (5 x Ø 22 mm; 5 x Ø 35 mm)
Section counter
Disposable blade holder (alternatively: standard knife holder)
Heat extractor (1 pcs.)
Foot switch for motor drive
Rack for specimen holders (stainless steel)
Disposable blades (box with 50 pcs.)
CryoGlue embedding medium (125 ml)
Cryostat low temperature oil (50 ml)
Set of Allen keys
Clear-cut brush
Mains cable
Manual

Specifications

Cryochamber	
temperature	0 °C down to -35 °C
Section thickness range	0.5 - 100 µm
	0.5 - 2 µm in 0.5-µm-steps
	2 - 20 µm in 1-µm-steps
Section thickness	20 - 50 μm in 2-μm-steps
settings	50 - 100 µm in 5-µm-steps
Trim thickness range	0.5 - 750 µm
	0.5 - 2 µm in 0.5-µm-steps
	2 - 20 µm in 1-µm-steps
	20 - 50 μm in 2-μm-steps
Trim thickness	50 - 150 μm in 5-μm-steps
settings	150 - 750 µm in 10-µm-steps
Horizontal advance	28 mm
Vertical stroke	58 mm
0 11 1	7 700 /
Sectioning speed	3 - 300 mm/s, selectable
Specimen retraction	0 - 200 µm, selectable
Specimentetraction	0 - 200 μπ, selectable
Consissor evicatestica	
	x/v axis 8° rotation 360°
Specimen orientation	x/y axis 8°, rotation 360°
Electrical parameters	x/y axis 8°, rotation 360° 115 V, 60 Hz 230 V, 50/60 Hz
Electrical parameters	
	115 V, 60 Hz 230 V, 50/60 Hz
Electrical parameters	115 V, 60 Hz 230 V, 50/60 Hz



MNT stainless steel cryochamber with modern rotary microtome and specimen holder

Item No.

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

Magnetic blade mover	34004113 n
Standard knife holder	10156010
Specimen holder (Ø 22 mm; 5 pcs.)*	30000002
Specimen holder (Ø 28 mm; 5 pcs.)*	30000017
Specimen holder (Ø 35 mm; 5 pcs.)*	3000000
Specimen holder (Ø 50 mm; 5 pcs.)*	3000003
Rack for specimen holders (stainless steel)	31000769

Optional accessories

Optional accessories	Item No.	
Cover for cooling-bar	32000497	
Cork plates (Ø 20 mm; 100 pcs.)	30001001	
CryoGlue embedding medium (4 x 125 ml)	30001100	
Clear-cut brush	30001030	
Brush set (7 pcs., size 2 - 16)	30001031 new	
Anti-roll plate, glas (40 x 26 x 3 mm)	32203206	
Anti-roll plate, glas (70 x 26 x 3 mm)	32203307	
Steel knife (16 cm-C-profile, 1 pcs.)	28000026	
Disposable blades (cf. consumables)		
Footrest incl. height adjustment (MEV with object cooling, MEV + and MNT)	10157009 new	
Ergosit laboratory chair	10157010	
Additional cooling plate (on demand)	new	

^{*} The specimen holders with Ø 22 mm, 28 mm, 35 mm come in 5 different colors for each size. The specimen holders with $\ensuremath{\mathcal{O}}$ 50 mm are only available in black.

Water baths & slide warmers

Slee offers a reliable and safe solution for every laboratory and all requirements. The devices are available as combination or as a single device.





Slidetec Water / Heat

Water bath & slide warmer

Slidetec Heat

Slide warmer

Slidetec Water

Water bath

Slidetec Water S

Water bath

Overview

Water baths & slide warmers





Slidetec Water / Heat

Water bath & slide warmer

Specifications

Water bath volume	21
Capacity slide warmer	30 slides
Temperature range	RT up to 60 °C (water bath) RT up to 80 °C (slide warmer)
Electrical parameters	115 V, 60 Hz 230 V, 50/60 Hz
Consumption	600 W
Dimensions (w x d x h)	370 x 560 x 230 mm
Weight	18 kg

Item No.

Slidetec Water / Heat 230 V, 50/60 Hz	13000500
Slidetec Water / Heat 115 V, 60 Hz	13000501

Slidetec Heat

Slide warmer

Specifications

Capacity slide warmer	30 slides
Temperature range	RT up to 80 °C
Electrical parameters	115 V, 60 Hz 230 V, 50/60 Hz
Consumption	300 W
Dimensions (w x d x h)	350 x 370 x 230 mm
Weight	15 kg

Item No.

	130005	10
Slidetec Heat 115 V 60 Hz	130005	11







Slidetec Water

Water bath

Specifications

Water bath volume	21
Temperature range	RT up to 60 °C
Electrical parameters	115 V, 60 Hz 230 V, 50/60 Hz
Consumption	300 W
Dimensions (w x d x h)	350 x 370 x 230 mm
Weight	10 kg

Slidetec Water S

Water bath

Specifications

Water bath volume	1.6
Temperature range	RT up to 60 °C
Electrical parameters	115 V, 60 Hz 230 V, 50/60 Hz
Consumption	300 W
Dimensions (w x d x h)	280 x 280 x 100 mm
Weight	2 kg

	Item No.		Item No.
Slidetec Water 230 V, 50/60 Hz	13000520	Slidetec Water S 230 V, 50/60 Hz	13000530
Slidetec Water 115 V, 60 Hz	13000521	Slidetec Water S 115 V, 60 Hz	13000531
Optional accessories	Item No.	Optional accessories	Item No.
Lid for Slidetec Water or Water / Heat to cover the glass tray	13000550	Lid for Slidetec Water S	13000551

Staining systems

Slee offers three different staining systems for different demands. Each laboratory can be equipped with a suitable staining system according to its individual requirements.





MSM

Carousel slide stainer

Cromatec I / Cromatec II

Flexible staining system with highest throughput

MAS

Multi protocol stainer

MSM Carousel slide stainer

With its simple user interface and sophisticated technology, the **MSM** carousel stainer is designed to meet the requirements for routine staining in histology and cytology laboratories. The device is equipped with 24 incubation stations containing up to 400 ml. The flex-programming option allows different staining protocols while using the same reagents. An integrated UPS (uninterruptible power supply, with built-in batteries) ensures highest process reliability even in environments with frequent power failures. A reliable extraction system with carbon filter reduces contact with reagent vapors for increased workplace safety. The rotating reagent cuvette table principle allows access to slide baskets and cuvettes from front.



Highlights

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



Item No.

MSM 100 - 240 V, 50/60 Hz

12000205

Standard components

Staining cuvettes (plastic, 24 pcs.)

Transport basket (plastic, 1 pcs.)

capacity 30 slides

Mains cable

Manual

Specifications

Staining cuvettes

material plastic dimensions (w x d x h) 130 x 40 x 135 mm

volume 400 ml

Transport basket

material plastic

capacity 30 standard slides

20 staining programs, **Programming** freely programmable

Electrical parameters 100 - 230 V, 50/60 Hz

Dimensions (w x d x h) 870 x 870 x 750 mm

Weight

w/o accessories 80 kg

Options	Item No.
Hood for MTP / MSM (Perspex)	11000220
Staining cuvettes	12000260
Slide basket (30 slides)	12000261
Drying station	12000256
Exhaust fan	11000210
Exhaust fan incl. carbon filter	11000011
inci. carbon filter	11000211
Carbon filter	11000254

Cromatec | / || Stainer with highest throughput

The **Cromatec** series represents maximum productivity and highest economy in routine histology and cytology. It combines consistent staining quality with extraordinary ease of operation of the device. Continuous loading of 30-slide baskets supports the user to fulfil the daily requirements and enables staining with highest throughput.

The Slee Cromatec stainer offers unique flexibility by individually programmable time settings for each station and freely selectable positions for the washing cuvettes. Exhaust fumes are filtered by an integrated carbon filter and may be guided to a central extraction system. The low noise level during operation avoids any disturbance.

Due to the ease of use and high throughput, the stainer is a great fit for any size of a laboratory.

To safeguard the operation of the unit in case of power failures, every device is equipped with an integrated uninterruptible power supply (UPS) as standard.

Highlights

- Highest throughput in routine, e.g. H&E staining
- Individual time settings, station for station, for maximum flexibility
- Continuous loading of 30-slide baskets
- Up to 6 washing cuvettes with controlled 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 low operating noise level
- · Integrated exhaust fan with carbon filter
- Easy handling via 7" touch display
- Integrated LED illumination of the working area
- · Integrated uninterruptible power supply



Item No.

Cromatec I 100 - 240 V, 50/60 Hz	17000000	
Cromatec II 100 - 240 V, 50/60 Hz	17000001	

Highest flexibility

Cromatec I	Cromatec II
High process flexibility	High process flexibility
Maximum throughput	Maximum throughput
	Additional heating station



Cromatec || Stainer with highest throughput

Cromatec II is based on model **Cromatec I** featuring an additional heating station. According to the user's requirement, it can be used as de-paraffinization or heating station. When used as a de-paraffinization station, the heating function is additionally supported by a laminar air flow to warm up the slides in the slide basket quickly and evenly.

Cromatec II cuvette as de-paraffinization station Cromatec II cuvette as heating station





Highlights Cromatec II

- · Integrated heating station
- Alternatively usable for de-paraffinization or heating
- Easily removable heating station for easy cleaning
- Intuitively programmable heating parameters



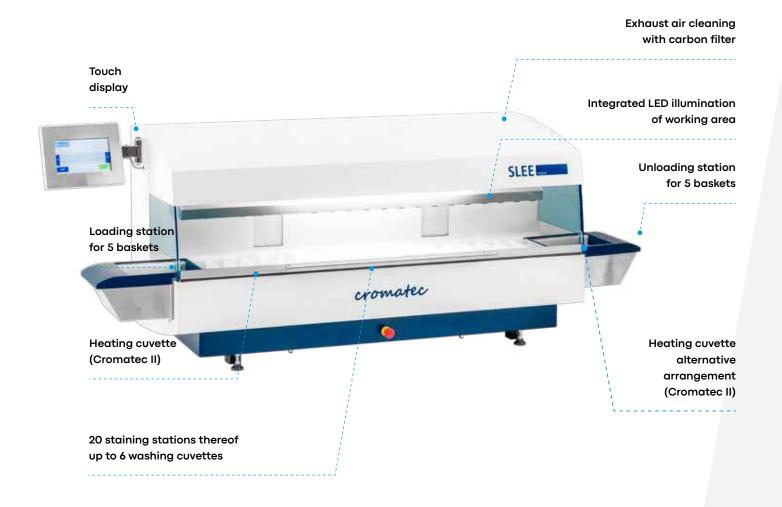
Standard components		Specifications	Cromatec	I Cromatec II	
Cromatec I or Cromatec II		Number of stations	20		
Staining cuvettes (20 pcs.)		Capacity of slide baskets	30 slides		
Washing cuvettes (6 pcs.)		Loading capacity	20 slide bo	20 slide baskets	
Heating station (only Cromatec II)		Throughput slides	up to 1,800 pcs./hrs.		
Basket carrier (6 pcs.)		Volume staining / washing cuvette	400 ml		
Slide baskets (6 pcs.) Transport container with lifter		Number of washing cuvettes	up to 6		
Transport container with litter		Loading / unloading stations	5 slide bas	skets each	
Xylene container insert with cover for unloading station		Programmes	20 prograi up to 20 st	mmes, with teps each	
Supply and drain hose		Incubation period	5 sec. up t	o1hrs.	
Mains cable Manual		Exhaust / exhaust air volume	up to 200 nominal d for rear co to central system Ø 1	iameter Innection extraction	
		UPS back-up time	up to 4 hrs	S.	
		Selectable temperature range	_	30 °C up to 70 °C	
Optional accessories	Item No.	Process time	-	0 sec. up to 59 min., 59 sec.	
Cover for Cromatec cuvettes, set	41230587 nev		100 040)	/ FO//OLL-	
Adapter clip for SAKURA basket (20 slides)	41000900	Electrical parameters Dimensions (w x d x h)) x 620 mm	
Adapter clip for Shandon Varistain Gemini basket	41220504 nev	Dimensions, with lid open) x 820 mm	
Further adapters on request		Weight	110 kg	115 kg	

Cromatec I and Cromatec II

The devices can be adapted accordingly to the use of slide baskets from other manufacturers. Please contact us if required.

Easy operation

Everything under control at all times. Super easy and absolutely reliable.





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.





All steps and their individual run time are clearly visible and under control at any time. Start and end times are clearly visible 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 staining run by run.

Customized protocols



Up to 20 user-defined staining programs can be saved under individual names. The Cromatec stainer enables the user to define the process time for each single step.



Loading station

Continuous loading using the loading station. Baskets are automatically taken out of the loading station when the Cromatec is ready to process the next staining step.

Easy unloading



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





Filling of the reagents or cleaning of the cuvettes by simple removal. Washing cuvettes can be freely positioned or used as additional staining cuvettes.

Safety



In case of a power failure the Cromatec continues 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 any 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 stainers simultaneously.





Slee Device View App. Management at its best.

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 device can process up to 12 baskets containing 30 slides each. Programming and process control is executed via colored LCD display.

The Reagent Management System (RMS) ensures high sample quality and helps to reduce consumption and costs. User safety and comfort are ensured by a highly efficient integrated exhaust system including carbon filter.

Highlights

- 4 x loading stations
- 4 x unloading stations
- 6 x washing cuvettes with controlled rinse water inlet
- 30 x staining stations with agitation
- 2 drying stations
 (in combination with 4 water baths)
- Carbon filter or tubing for exhaust system
- · Universal power input 230 V, 50/60 Hz



Item No.

MAS 230 V, 50/60 Hz	14000500
MAS 230 V, 50/60 Hz with drying stations	14000502
MAS 230 V, 50/60 Hz with conveyer to coverslipper MCS I	14000600
MAS 230 V, 50/60 Hz with conveyer to coverslipper MCS I and drying stations	14000504
MAS 115 V, 60 Hz	on demand





MAS interior with cuvettes

				MAS
			MAS	with conveyer to
		MAS	with conveyer to	coverslipper MCS I
Standard components	MAS	with drying stations	coverslipper MCS I	and drying stations
Loading stations (4 pcs.)	~	~	•	•
Unloading stations (4 pcs.)	~	•	~	•
Staining cuvettes (30 pcs. à 360 ml)	~	~	~	~
Washing cuvettes (6 pcs.)	~		~	
Washing cuvettes (4 pcs.)		~		~
Drying stations (2 pcs.)		~		•
Slide baskets				
(4 pcs. up to 30 slides each)	~	•	•	•
Carbon filter	~	~	•	_
Conveyer system to coverslipper MCS I			•	•
Mains cable	•	•	•	•
Manual	~	√	~	•







Specifications

Max. number of program steps	40
or program stops	
Incubation time	
for each station	1 sec. up to 59 min.
	adjustable drain time from 0 to 9 sec.
Drip collection	patented drip collection technology
Stations, total	44
	4 loading stations
	4 unloading stations
	30 incubation stations with agitation
Including	6 washing stations for running water
	2 drying stations
	(temperature adjustable from 40 °C up to 90 °C)
Optional	with 4 washing stations
Electrical parameters	230 V, 50/60 Hz
Dimensions (w x d x h)	1,210 x 670 x 640 mm
NA/aimht/a magagaing	115 l.e.
Weight w/o accessories	115 kg

Coverslippers

Highly reliable systems for a smooth workflow in the laboratory. The Slee coverslippers operate to the highest quality standards.

Make your workflows more effective!





MCS I

Coverslipper (to be combined with MAS multi protocol stainer)

MCS I

Coverslipper (to be combined with MAS multi protocol stainer)

The coverslipper **MCS I** can be directly connected to the stainer **MAS**. Simplify workflows: staining and coverslipping in one step!



Highlights

- MCS I can be directly connected to the stainer MAS
- Simplified step of manual handover of the sample holders to full automation
- · Space saving combination



Item No.

MCS I 230 V, 50/60 Hz	14000000		
MCS I 115 V 60 Hz	on demand		



MAS multi protocol stainer (not included)







Standard components

Slide baskets (8 pcs. up to 30 slides each)
Cover glass holder (50 or 60 mm, 1 pcs.)
Carbon filter (2 pcs.)
Mains cable
Manual

Specifications

Processing speed	up to 500 slides / hrs.
Dispensing	
volume	30 - 150 µl
Dimensions (w x d x h)	630 x 670 x 640 mm
Weight out a second	/ E. L
Weight w/o accessories	65 kg

Centrifuges

Slee offers two different centrifuge models for diverse requirements and applications in laboratory routine. Slee centrifuges allow you to use the respective model flexibly, customize it and increase the efficiency of your laboratory.





CS I

Cytocentrifuge

CS II

Cytocentrifuge with 10 memory programmes, equipped with cooling depending on model

CS I / CS II

Cytocentrifuges

CS I and **CS II** centrifuges are a cost-effective alternative for monolayer cell preparation, providing consistent performance and user friendliness. The systems are 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 proper cleaning. For a flexible use of the system a variety of sediment rotors are available on request. The **CS II** centrifuge is depending on the model equipped with cooling. Up to 10 memory programmes can be safed.

Highlights

Flexible selection and handling of rotors

- Cytocentrifugation open or closed (12 loading positions)
- Easily removable rotor for outside loading
- Large variety of rotors available (sediment, cytocentrifuge)
- CS II with optional cooling and up to 10 memory programmes

Suitable consumables

- Cytofunnel single or double (reusable or disposable)
- Large volume ECOfunnel® (reusable or disposable)
- Filter cards

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



	Item No.		Item No.
CS I 230 V, 50/60 Hz Open rotor	15500000	CS II 230 V, 50/60 Hz Open rotor	15500100
CS I 230 V, 50/60 Hz Closed rotor	15500001	CS II 230 V, 50/60 Hz Closed rotor	15500101
CS I 115 V, 60 Hz	on demand	CS II 230 V, 50/60 Hz Open rotor, with cooling	15501100
		CS II 230 V, 50/60 Hz Closed rotor, with cooling	15501101
		CS II 115 V, 60 Hz	on demand





CS rotor with 12 loading positions

Standard components	CS I Open rotor	CS I Closed rotor	CS II Open rotor	CS II Closed rotor
Cellclip rotor,				
open (12 positions)	✓		V	
Cellclip rotor,				
closed (12 positions)		✓		•
Callelia				
Cellclip		.4	.4	
(stainless steel, 12 pcs.)	<u> </u>	<u> </u>	V	-
Cytofunnel,				
reusable (12 pcs.)	~		~	
Filter cards for cytofunnel,				
reusable				
Item No. 39910001 standard (200 pcs.)	•	•	•	•
O-Welfeler				
Cellslides				
Item No. 39910003 (100 pcs.)	✓	V	V	✓
Mains cable	~	•	•	•
Manual	✓	~	✓	✓



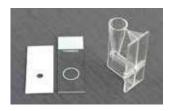




Specifications	CSI	CSII
Application	cytology	cytology, laboratory
Cooling / temperature	-	down to -20 °C (optional)
Cytofunnel capacity	single 0.5 ml / chamber double 0.5 ml / chamber ECOfunnel® 5 ml / chamber	single 0.5 ml / chamber double 0.5 ml / chamber ECOfunnel® 5 ml / chamber
Memory programmes	-	up to 10
Rotor capacity	up to 12	up to 12
Applicable rotors	cellclip rotor (cytocentrifugation) swing-out rotor (different sizes) fixed angle rotor (different sizes)	cellclip rotor (cytocentrifugation) swing-out rotor (different sizes) fixed angle rotor (different sizes)
Centrifuge operation	up to 6,000 rpm depending on the selected rotor), timer 0 - 99 min.	up to 15,000 rpm depending on the selected rotor), timer 0 - 99 min.
Safety	automatic rotor recognition, lid locking and holding	automatic rotor recognition, lid locking and holding
Electrical parameters	230 V, 50/60 Hz	230 V, 50/60 Hz
Dimensions (w x d x h)	370 x 430 x 260 mm	400 x 700 x 350 mm
Weight	25 kg	29 kg

Reusable preparation systems

Cytofunnel single, reusable	Quantity	Item No.
Cellclip	1 pcs.	39910031
Cytofunnel single	12 pcs.	39910000
Filter cards (only for cytofunnel single 39910000) up to 0.5 ml	200 pcs.	39910001
Filter cards (only for cytofunnel single 39910000) thin, up to 0.4 ml	200 pcs.	39910006
Cellslides single, uncoated	100 pcs.	39910002
Cellslides single, coated	100 pcs.	39910003



Cytofunnel single, reusable

Cytofunnel double, reusable	Quantity	Item No.
Cellclip	1 pcs.	39910031
Cytofunnel double	12 pcs.	39910010
Filter cards for cytofunnel double up to 2 x 0.5 ml	500 pcs.	39910011
Cellslides double, uncoated (only for cytofunnel double, reusable 39910010)	100 pcs.	39910012



Cytofunnel double, reusable

Cytofunnel ECOfunnel®, reusable	Quantity	Item No.
Cellclip	1 pcs.	
Cytofunnel ECOfunnel®	12 pcs.	
ECOseal seal for ECOfunnel®	100 pcs.	
ECOslides, coated	100 pcs.	



Cytofunnel ECOfunnel®, reusable



Rotors

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



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



EASY rotor (closed)	Item No.
12 positions, without stainless steel clips,	
for EASY / double cytofunnel	15500600



EASY rotor (open)	Item No.
12 positions, without stainless steel clips,	
for EASY / double cytofunnel	15500601



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



Swing-out rotor 6-point	Item No.
for 50 ml	39910043
Adapter for 15 ml (only for 39910043)	39910044



The **cellclip of the CS series** an be easily exchanged for a third-party cellclip!



Cellclip of the CS series

Third-party cellclip

Disposable preparation systems

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

EASY cytofunnel single, disposable	Quantity	Item No.
With white filter card up to 0.5 ml	40 pcs.	39910090
With brown filter card up to 0.5 ml		on demand





EASY cytofunnel single

EASY cytofunnel double, disposable	Quantity	Item No.
With white filter card up to 2 x 0.5 ml	- 1	39910091
With brown filter card up to 2 x 0.5 ml		on demand





EASY cytofunnel double

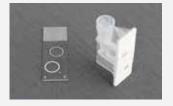
Cytofunnel single, disposable	Quantity	Item No.
Cellclip	1 pcs.	
Cytofunnel single up to 0.5 ml	100 pcs.	
Cytofunnel single up to 0.5 ml		39910005
Cellslides single, uncoated	100 pcs.	
Cellslides single, coated	100 pcs.	39910003



Cytofunnel single, disposable



Cytofunnel double, disposable	Quantity	Item No.
Cellclip	1 pcs.	39910031
Cytofunnel double, sample chamber with 2 shifted holes, up to 2 x 0.5 ml	100 pcs.	39910014
Cytofunnel double, sample chamber with 2 shifted holes, up to 2 x 0.5 ml	500 pcs.	39910015
Cellslides double, uncoated (only for cytofunnel double 39910015)	100 pcs.	39910016
Cellslides double, coated (only for cytofunnel double 39910015)		on demand



Cytofunnel double, disposable

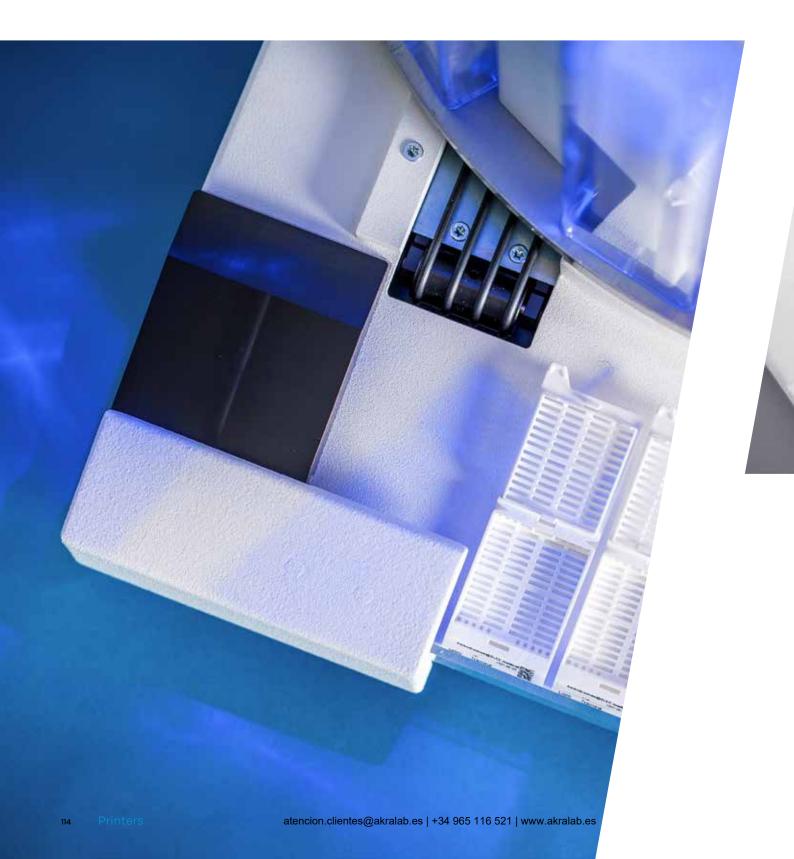
ECOfunnel®, disposable	Quantity	Item No.
Cellclip	1 pcs.	
ECOfunnel®, up to 5 ml	100 pcs.	
ECOfunnel®, up to 5 ml	500 pcs.	
ECOslides, coated		39910022
ECOslides, uncoated		on demand



ECOfunnel®, disposable

Printers

Slee printer solutions improve patient safety in your laboratory and help optimize daily workflow. Sources of error are eliminated, e.g. unintentional detachment of labels, smudging or illegibility of handwriting.





Printtec S

Slide printer

Printtec C

Single cassette printer

Autoloader

Batch printer

Overview Printers, Autoloader





Printtec S

Slide printer

100 slides per magazine, programmable ID chip, slide counter

Output tray: 15 slides

Printing speed

black9 slides / min.monochrome5 slides / min.multicolor4 slides / min.

Printtec C

Single cassette printer

1 cassette is inserted manually and removed after printing.

-

Printing speed cassette printing (single)
black 9 cassettes / min.
monochrome 6 cassettes / min.
multicolor 5 cassettes / min.

Specifications

100 - 240 V, 50/60 Hz

180 x 320 x 218 mm (w x d x h)

7.6 kg

Specifications

100 - 240 V, 50/60 Hz

283 x 312 x 244 mm (w x d x h)

7.5 kg





Printtec C printer for single cassettes is not included!

Autoloader

for batch printing*

Loading chutes: 4 magazines x 40 cassettes

Output: 7 cassettes

Output extension tray: 10 cassettes, multiple extendable +10, +10, +10 cassettes

Output tray: 7 cassettes

Printing speed in combination with Printtec Cblack8 cassettes / min.monochrome5 cassettes / min.multicolor4 cassettes / min.

Specifications

100 - 240 V, 50/60 Hz

304 x 658 x 490 mm (w x d x h)

33.6 kg

Note: Cannot be used separately, but only in combination with the single cassette printer Printtec C!

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

- Black or full color printing of text, graphics, barcodes and QR codes on demand
- Reduction of inventory effort for different colored slides by using only pure white slides and printing in color
- Output tray capacity:15 slides
- Magazine capacity:
 100 slides with slide counter

- · Print directly onto slides
- Small footprint
- Chemical and UV resistant print to withstand common processes in laboratories - reliable identification of slides even after several years
- USB 2.0 interface for easy and direct connection to Windows 8.1 / 10 based devices like PCs and tablets



Item No.

Standard components

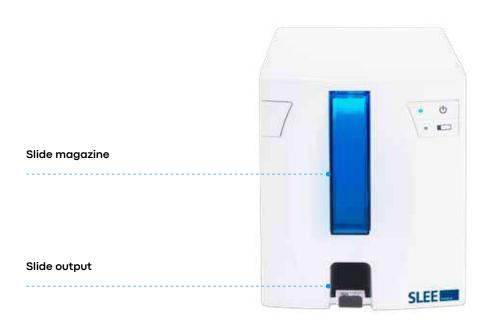
Printtec S 100 - 240 V, 50/60 Hz 10050001 Printtec S with high pressure 100 - 240 V, 50/60 Hz 10050004

Blue slide magazine for 100 slides
Standard ribbon (black, 1 pcs.)
Slides
USB cable
Printtec cleaning pen
Mains cable
USB stick with manuals
PTLAB SE software, for single workplace solutions
Quick start guide

Optional accessories	Item No.
Blue slide magazine for 100 slides,	
spare magazine to optimize the workflow	39300002
Colored ribbon for Printtec S standard	
and Printtec S with high pressure, TC 1	39300008
Colored ribbon for Printtec S standard, TC 2	39300007
Colored ribbon for Printtec S standard	
and Printtec S with high pressure	39300005
Monochrome ribbon black for Printtec S standard and Printtec S with	
high pressure, TC 1	39300006
Monochrome ribbon black	
for Printtee S standard, TC 2	39300009
Printtec cleaning pen	39300015
Barcode Scanner Datalogic Medical Grade	
2D incl. stand	39300011
Printhead	39300001
PTNet server	39300014
PTLAB PE software, LIS version	39302000
Further accessories on request	

Specifications

Capacity	
magazine	100 slides in the magazine, programmable ID, slide counter
output tray	15 slides
Printing speed	
black	9 slides / min.
monochrome	5 slides / min.
multicolor	4 slides / min.
Electrical parameters	100 - 240 V, 50/60 Hz
Dimensions (w x d x h)	180 x 320 x 218 mm
Weight w/o accessories	7.6 kg





Easy handling

Printtec S is designed for efficient, hands-free operation. Slides are stored in easy-to-load magazines - away from dust and other potential contaminants. It takes just a few seconds to change the magazine if you need standard slides for one study and positively-charged slides for others. The level of slides remaining in a magazine is easily viewed through the magazine's transparent blue LED backlit case.



Direct print

Prints directly onto slides - eliminates illegible handwritings or labels that are hard to apply and can potentially fall off. Avoids disturbances of laboratory equipment.



Free software

Free PTLab $^{\rm m}$ software - template-driven software for your individual design and data workflow and configurable data stream connection to LIS systems.



Output extension for Printtec S, slide printer

The output extension for up to 100 slides enables the **Printtec S** to print larger quantities of slides without interruption.

Item No.

Output extension

for up to 100 slides

39300003



Highlights

- Ideal for printing larger quantities, up to 100 slides if required
- Inexpensive solution for batch processing, avoids waiting periods
- Removable slide container made of stainless steel for quantities up to 100 slides, for continuous operation
- · Simple, low-maintenance design
- · Easy mounting under the Printtec S

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 cassette printer **Printtec C** prints in black, monochrome or multicolor as required! 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.



connection to Windows 8.1 / 10 based

devices like PCs and tablets



Item No.

Printtec C 100 - 240 V, 50/60 Hz

10050002

Standard components

Cassettes	
Standard ribbon, black, 1 pcs.	
USB cable	
Printtec cleaning pen	
Mains cable	
Memory card with manuals	
Quick start guide	
Optional accessories	Item No.
Colored ribbon for Printtec C, TC 1	39300008
Colored ribbon for Printtec C, TC 1 Monochrome ribbon black	39300008
	39300008 39300006
Monochrome ribbon black	
Monochrome ribbon black for Printtec C, TC 1	39300006
Monochrome ribbon black for Printtec C, TC 1 Printtec cleaning pen	39300006
Monochrome ribbon black for Printtec C, TC 1 Printtec cleaning pen Barcode scanner Datalogic Medical	39300006 39300015
Monochrome ribbon black for Printtec C, TC 1 Printtec cleaning pen Barcode scanner Datalogic Medical Grade 2D incl. stand	39300006 39300015 39300011

Further accessories on request

Specifications

Capacity

The cassette is inserted manually and removed after printing.
9 cassettes / min.
6 cassettes / min.
5 cassettes / min.
100 - 240 V, 50/60 Hz
222 x 244 x 244 mm
7.5 kg



Direct print

Prints directly onto cassettes - eliminates illegible handwritings 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

A cassette is inserted manually and the print is started via the operating software. When the print is finished, the cassette is removed again.



Single cassette printer

One cassette at a time is loaded for single cassette print. Printing speed is extremely fast at about 6 seconds per cassette.



Variety of colors

The cassettes can be printed in black, single color or multicolor, depending on your needs! The possibility of color variation significantly increases the safety and efficiency of the laboratory.





Optional Autoloader*

4 x 40 cassettes can be automatically loaded for a batch print. Printing speed is very fast at about 8 seconds per cassette.



Slee Always focusing on patient's well-being.

Autoloader* for batch printing and color variations

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** has been specially designed for fast and efficient processing. The 4 cassette reservoirs tremendously increase the number of the possible cassette prints. The magazine with the cassettes is simply inserted into one of the 4 loading chutes.

The quantity of remaining cassettes can be easily controlled through the front of the transparent magazine, illuminated with blue LED backlight, but is additionally displayed on the LCD screen.



Printtec C printer for single cassettes is not included!

Highlights

- 4 transparent loading chutes with a capacity of up to 40 cassettes / magazine
- Capacity of up to 160 cassettes for on-demand or batch printing
- Output capacity: 7 cassettes, expandable with 10 cassettes with each output extension tray
- Possible forwarding of the cassettes via the output tray extension to the processing station
- 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)
 - up to 5 cassettes per minute (monochrome)
 - up to 4 cassettes per minute (multicolor)
- USB 2.0 interface for easy and direct connection to Windows 8.1 / 10 based devices like PCs and tablets

Note: Cannot be used separately, but only in combination with the single cassette printer Printtec C!



Item No.

Autoloader 110 - 240 V, 50/60 Hz

for cassette printer Printtec C*

10050003

Standard components

Magazine for loading chutes incl. separator, set of 4
6-pin-mini-DIN cable
Output extension tray, 1 pcs.
Mains cable
Memory card with manuals
Quick start guide

Optional accessories	Item No.
Magazine for loading chutes	
incl. separator, set of 4	39300004
Output extension tray	10510000
6-pin-mini-DIN cable	39300017
Further accessories on request	

Specifications

Capacity	
Loading chutes	4 magazines x 40 cassettes
_	
Output	7 cassettes
Output	10 cassettes, multiple exten-
extension tray	dable +10, +10, +10 cassettes
Printing speed	
Printing speed in combination	
with Printtec C*	
With finites o	
black	8 cassettes / min.
monochrome	5 cassettes / min.
multicolor	4 cassettes / min.
Electrical parameters	110 - 240 V, 50/60 Hz
Dimensions (w x d x h)	305 x 658 x 490 mm
147-1-I-4	
Weight	77 / 1.2
w/o accessories	33.6 kg

^{*} Note: Cannot be used separately, but only in combination with the single cassette printer Printtec C!



Printtec C printer for single cassettes is not included!

Loading chutes with magazines

Output extension tray



The extension of the output tray is multipe expandable with +10 cassettes each. A simple plug-in extends the output area so the workflow becomes more relaxing.

Direct print



Prints directly onto cassettes - eliminates illegible handwritings or labels that are hard to apply and can potentially fall off.

Free software



Free PTLab $^{\rm m}$ software - template-driven software for your individual design and data workflow and configurable data stream connection to LIS systems.





Easy handling

The Autoloader version in combination with the Printtec C has been specially designed for fast and efficient processing. The magazines with the cassettes are simply inserted into the loading chutes.

Illuminated loading chutes

The number of remaining cassettes can be easily seen through the transparent loading chutes with blue LED backlight.

Single cassette printer

The printer is also available separately without Autoloader. Load one cassette at a time. Printing speed is extremely fast at about 6 seconds per cassette.



Autoloader version*

4 x 40 cassettes can be automatically loaded for a batch print. Printing speed is very fast at about 8 seconds per cassette.

* The Autoloader version is available as an extension to the single cassette printer Printtec C.





Ergonomic workplaces

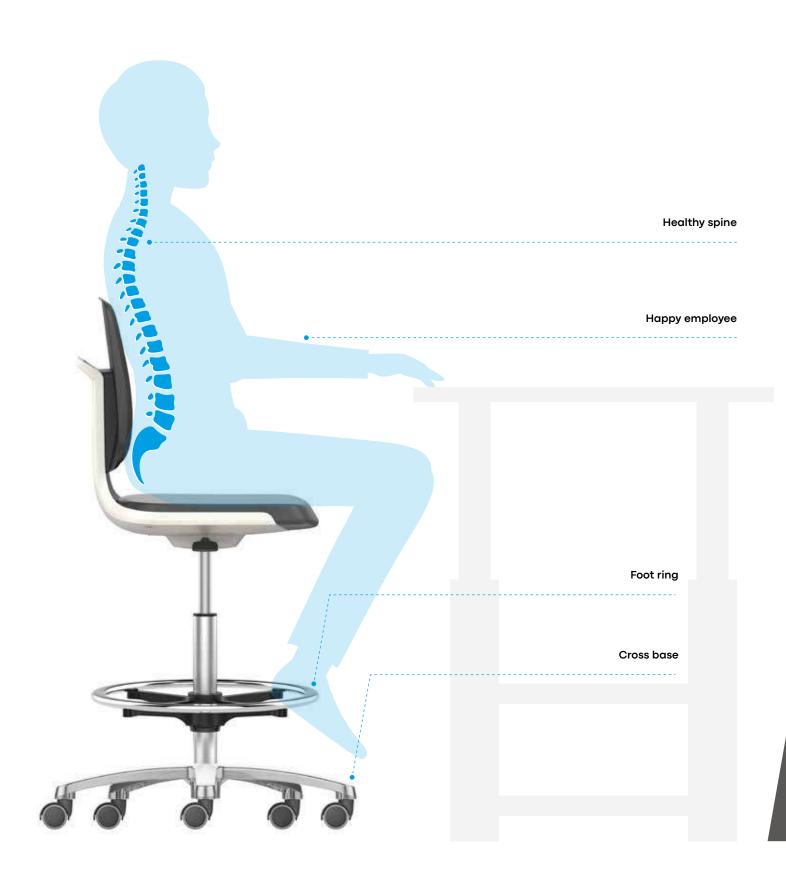
The **Ergotec** workplaces of Slee are the perfect solution for your laboratory set-up. The high-quality ergonomic **Ergotec** working tables are manufactured according to your individual requirements.

The **Ergosit** is a true enrichment for your laboratory. It is a user-friendly, ergonomically sophisticated laboratory chair which increases workplace quality and employee satisfaction. Customize your chairs and inspire your employees! Our ergonomic workstations are suitable for many applications. The dimensions, heights and colors can be customized to the greatest possible extent. The design of the tables can be highly customized to meet customer needs and requirements. This allows us to manufacture the ultimate workstation perfectly suited to the particular ambient requirements.

The integration of different modules in the table top, such as cooling plate and water bath, is also available. The placement of the modules takes place individually according to customer requests.

Ergosit laboratory chair

With stop & go castors (high version) and foot ring





Item No.

Ergosit high version	10157010
Ergosit low version	10157011

Options*

Cover fabric
Seat color (cf. color palette on the right)
Seat height
Armrests
*Contact us for further information.

Specifications

Seat height high version	560 up to 810 mm
Seat height low version	450 up to 650 mm
Cleanroom class	3 according to ISO 14644-1
Cover fabric	integral foam (extremely robust and durable)
Seat color	integral foam black 2000
Seat support	plastic parts gray-white
Cross base	polished aluminum
Stop & go castors	Ergosit high version only (Item No. 10157010)

Highlights

- 3D flex function in the back
- · Flexible front edge of the seat
- · Adjustable height
- · Seat shell in various colors
- · Handle on the backrest
- GMP compliant
- · Contributes to increasing the quality of the workplace and employee satisfaction
- · Hygienic design (minimal joints, resistant

- to disinfectants and chemicals, anti-bacterial and anti-germ effects)
- · Low weight, mobile through handle, compact design
- Ergonomic and comfortable, complicated adjustments and settings become redundant thanks to the innovative flex functions: seat front edge and backrest

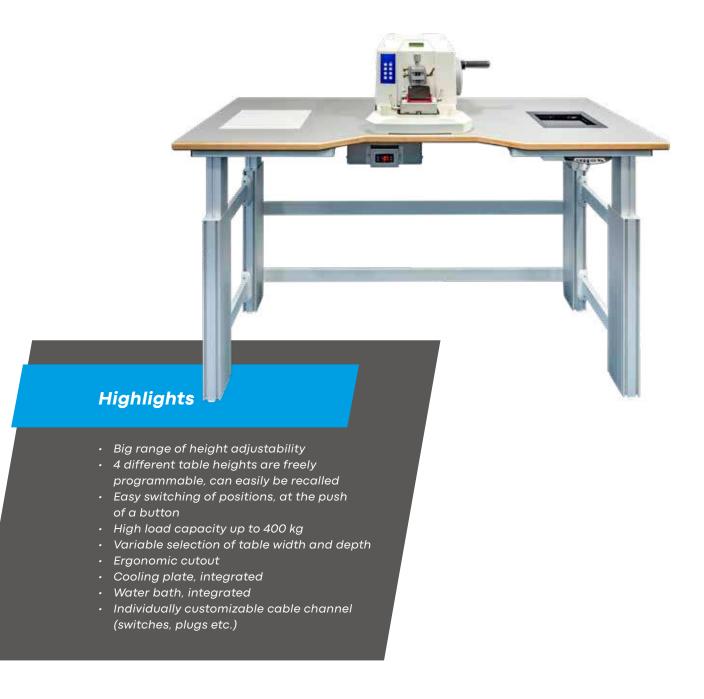
Ergotec worktable

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, joint and back pain while working. The **Ergotec** series worktables support this comprehensively. By the way: The work surface withstands most of the reagents used in the histopathology laboratory.

The design of the tables makes it very easy to switch between sitting and standing while working. Up to 4 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. Ergonomic cutouts in the table for the laboratory chairs create optimal seating and working comfort for the user.





Item No.

Ergotec - standard version with height adjustment 1,800 x 800 mm

10120001

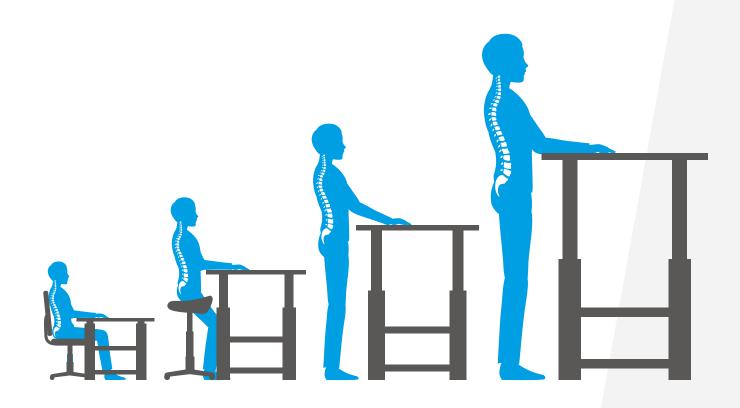
More versions on demand

Options*	Item No.	Specifications	
Integrated water bath	10120002	Range of height adjustment	660 up to 1,100 mm
Integrated cooling plate	10120003	Programmable height levels	4 memory settings
Cable channel*	10120004	Maximum load	400 kg
Workplace with LED illumination*	10120005	Thickness of table top	30 mm
Undertable drawer*	10120006	Color of table top	selectable
Monitor arm and / or workstation (multiple version available)	on demand ne	Maximum dimensions (possible customization)	2,000 x 1,000 mm
Ergonomic cutout	on demand	Cooling plate dimensions	300 x 320 mm
*Contact us for further information.		Cooling plate temperature	+15 °C down to -15 °C
		Water bath dimensions	260 x 214 x 60 mm
		Water bath temperature	RT up to 85 °C

Dimensions, color and equipment are individually selectable!



Ergotec worktable with illumination and Ergosit laboratory chair





Undertable drawer



Optionally available. Smaller parts can be stored safely directly at the place. You have everything within reach (image may differ).



Cable channel

Optionally available. Have a neat and clean desktop. All cables remain hidden. The appropriate switches, sockets and USB ports are set according to your personal requirements.



LED illumination

Optionally available. For a perfectly illuminated work-place at all times. Supports fatigue-free work through optimally coordinated LUX strengths.



Programmable height levels

Sitting, standing, sitting. Staying mobile while working has never been easier. The height adjustment turns a static workstation into an active one.



Cooling plate

The cooling plate can be integrated directly into the tabletop at your desired location. The work surface is not displaced by an additional device. Easy to clean.



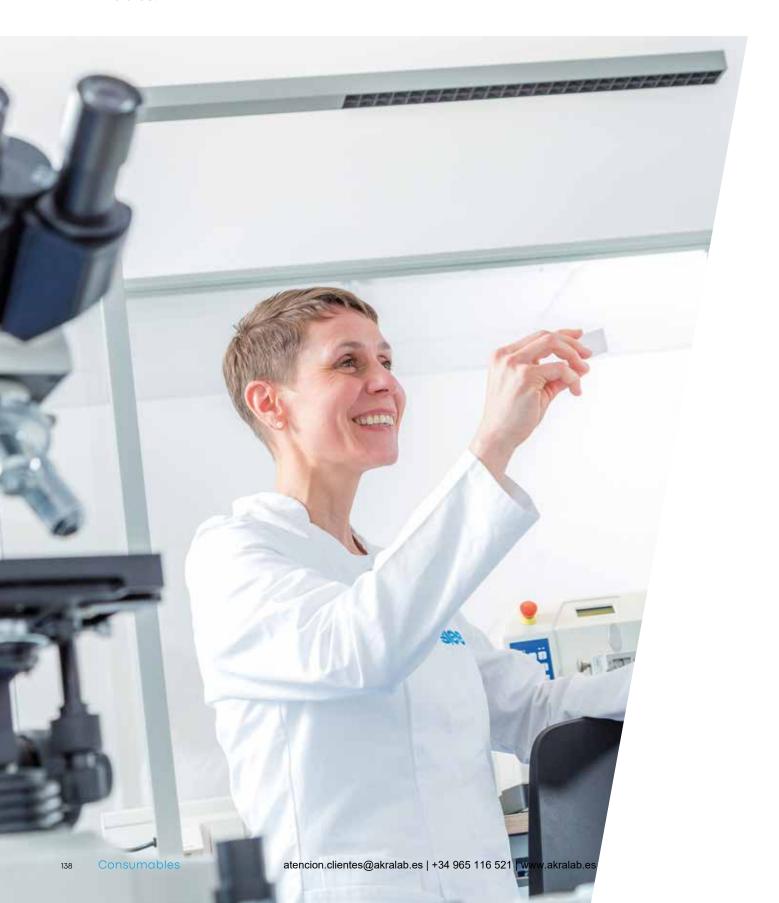
Water bath

Integrate the water bath directly into the tabletop at your desired location. Keeping all structures flat improves the workflow. Easy filling and emptying.

Consumables

All Slee consumables are subject to the highest quality requirements.

Our product range includes blades with plasma coating, tissue embedding paraffin, slides and coverslips as well as the CryoGlue embedding medium and other consumables.





High quality microtome 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. All Slee microtome blades are made of stainless steel.

Disposable blades (plasma coated)

Item No.

Low profile plasma LPS

for soft specimens, plasma coated: 80 x 8 mm, thickness 0.254 mm, 35° angle, hardness 1100 Hv, 50 pcs. / box 28407005



Low profile plasma LPH

for hard specimens, plasma coated: 80 x 8 mm, thickness 0.254 mm, 35° angle, hardness 1100 Hv, 50 pcs. / box 28407004



High profile plasma HPS

for soft specimens, plasma coated: 80 x 14 mm, thickness 0.254 mm, 35° angle, hardness 1100 Hv, 50 pcs. / box 28407007



Paratec Premium, Paratec Tissue embedding paraffin

Paratec Premium consists of highly purified paraffin. With polymer additive for precise embedding and cutting, melting range 54 - 57 °C. Granulated material: easy and convenient handling. Slee paraffin is DSMO-free.

Paratec Premium	Item No.	Paratec	Item No.
Premium paraffin		Paraffin	
1 kg	30010004	without polymer additive	
		melting range 54 - 56 °C	
2.5 kg	30010006	20 kg	30010002
10 kg	30010008		
25.1	70010007		





Slides / coverslips and consumables in premium quality

Perfect consumables for Slee **Printtec S** slide printers / **MCS I** coverslippers, **MEV** / **MEV** + and **MNT** cryostats.

Slides	Item No.	Coverslips	Item No.
StarFrost® slides		StarFrost® coverslips	
26 x 76 x 1.0 mm,		24 x 50 mm, 100 pcs. / box	30001051
ground edges 90°,			
clipped slide corners 45° angle,		StarFrost® coverslips	
color frosted marking area about 20 mm		24 x 55 mm, 100 pcs. / box	30001052
(available in white, orange, blue, green,			
yellow, pink)		StarFrost® coverslips	
50 pcs. / box	on demand	24 x 60 mm, 100 pcs. / box	30001053

on demand

StarFrost® slides

26 x 76 x 1.0 mm, adhesive, ground edges 90°, clipped slide corners 45° angle, color frosted marking area about 20 mm (available in white, orange, blue, green, yellow, pink) 50 pcs. / box

StarFrost® slides

26 x 76 x 1.0 mm, advanced adhesive, ground edges 90°, clipped slide corners 45° angle, color frosted marking area about 20 mm (available in white, orange, blue, green, yellow, pink)
50 pcs. / box on demand

Consumables	
for cryostats	Item No.
CryoGlue embedding medium $(4 \times 125 \text{ ml})$	30001100
Cryostat low temperature oil, 50 ml	30001011
Cork plates (Ø 20 mm; 100 pcs.)	30001001

Highlights

 Slee StarFrost® slides in different styles and colors

Bacteria and virus filter for extraction

 Slee StarFrost® coverslips in 3 different sizes, made for automatic coverslipping

Service

We are committed to provide world-class support to our global customers at all times. We strive to advise you professionally before purchase and to support you during installation and initial setup. In addition, it goes without saying that we will always be available as a reliable partner during the longtime use of our products.

You can contact us directly with any kind of questions. In order to process your inquiries in time, please always include the following information:

- User name
- Address
- Phone number
- E-mail
- Type of device
- Serial number of device
- Date of purchase
- Detailed case description

Service Hotline: +49 (0) 6136 76997-0

Service E-mail: service@slee.de

Trainings

Service and application training

Well-trained staff is crucial for the implementation of regular service and maintenance of high quality.

We offer regular service and application training for our worldwide distribution partners.

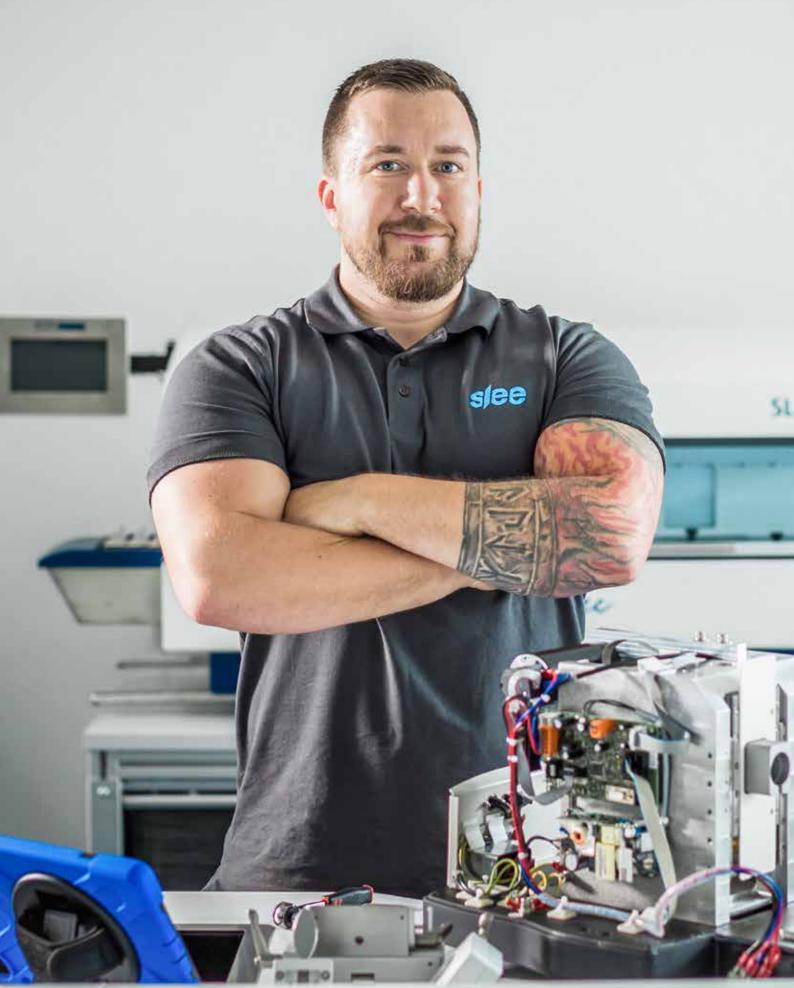
Visit www.slee.de to access the training schedule and to download the registration form.

Training requests

Tel.: +49 (0) 6136 76997-0

E-mail: mail@slee.de





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