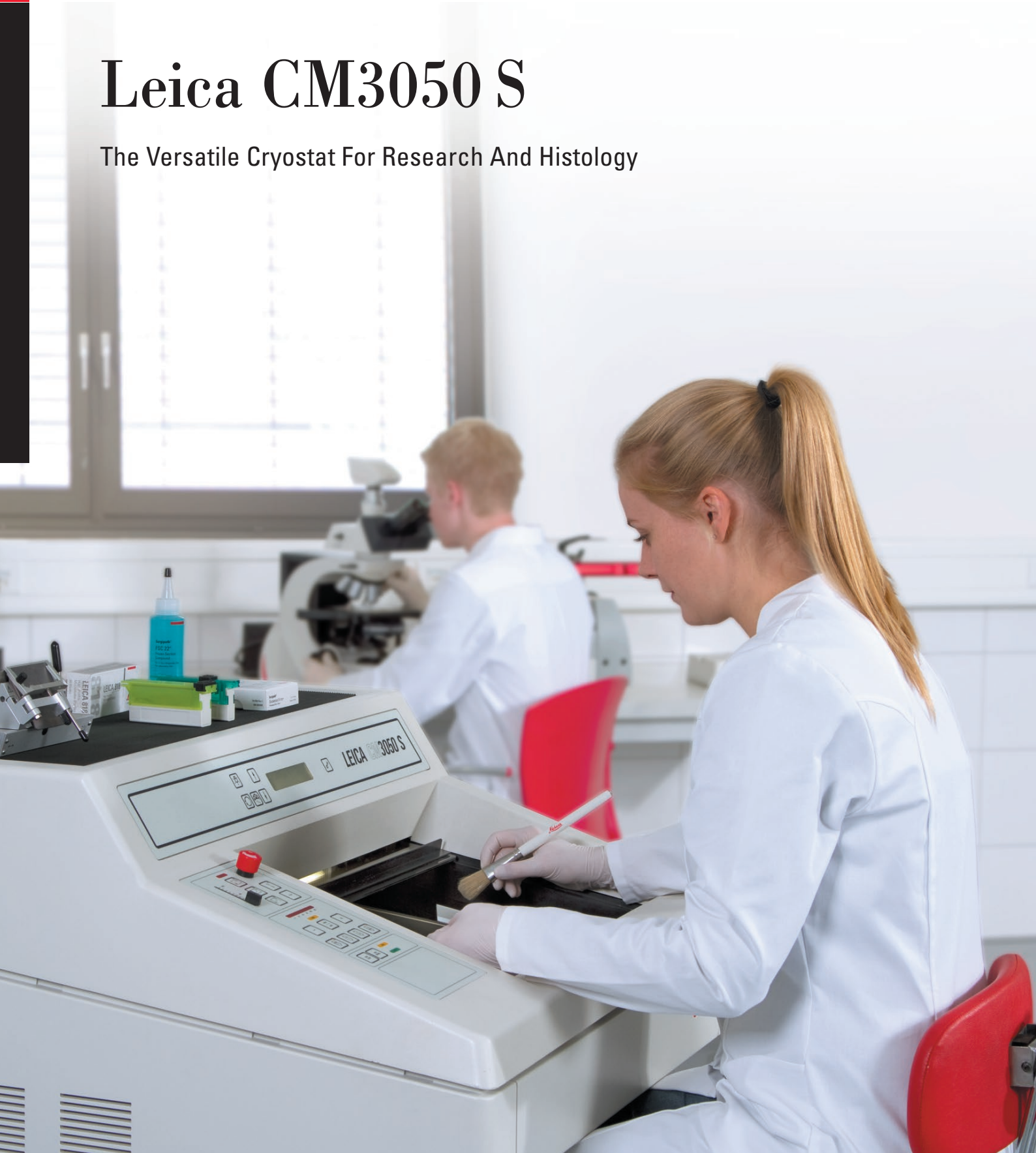


Advancing Cancer Diagnostics  
Improving Lives



# Leica CM3050 S

The Versatile Cryostat For Research And Histology



# Quality And Reproducibility

Time is a decisive factor for both operational efficiency and economic performance in any routine and research laboratory. The Leica CM3050 S ensures efficient specimen processing by offering fast and reliable sectioning results. The heat insulation system ensures stable temperatures and less power consumption, helping to keep running costs low. With its versatility and easy operation the Leica CM3050 S even meets the highest sectioning demands perfectly.



## Precise - Specimen orientation and specimen feed

The precise specimen orientation and the specimen feed system via step motor allow reproducible thin sections of maximum quality when working with large specimens - for example in Neuroscience.



## User safety - Centering the handwheel handle

During motorized operation, the handle of the handwheel can be centered so that it spins in place instead of rotating in an outward motion.



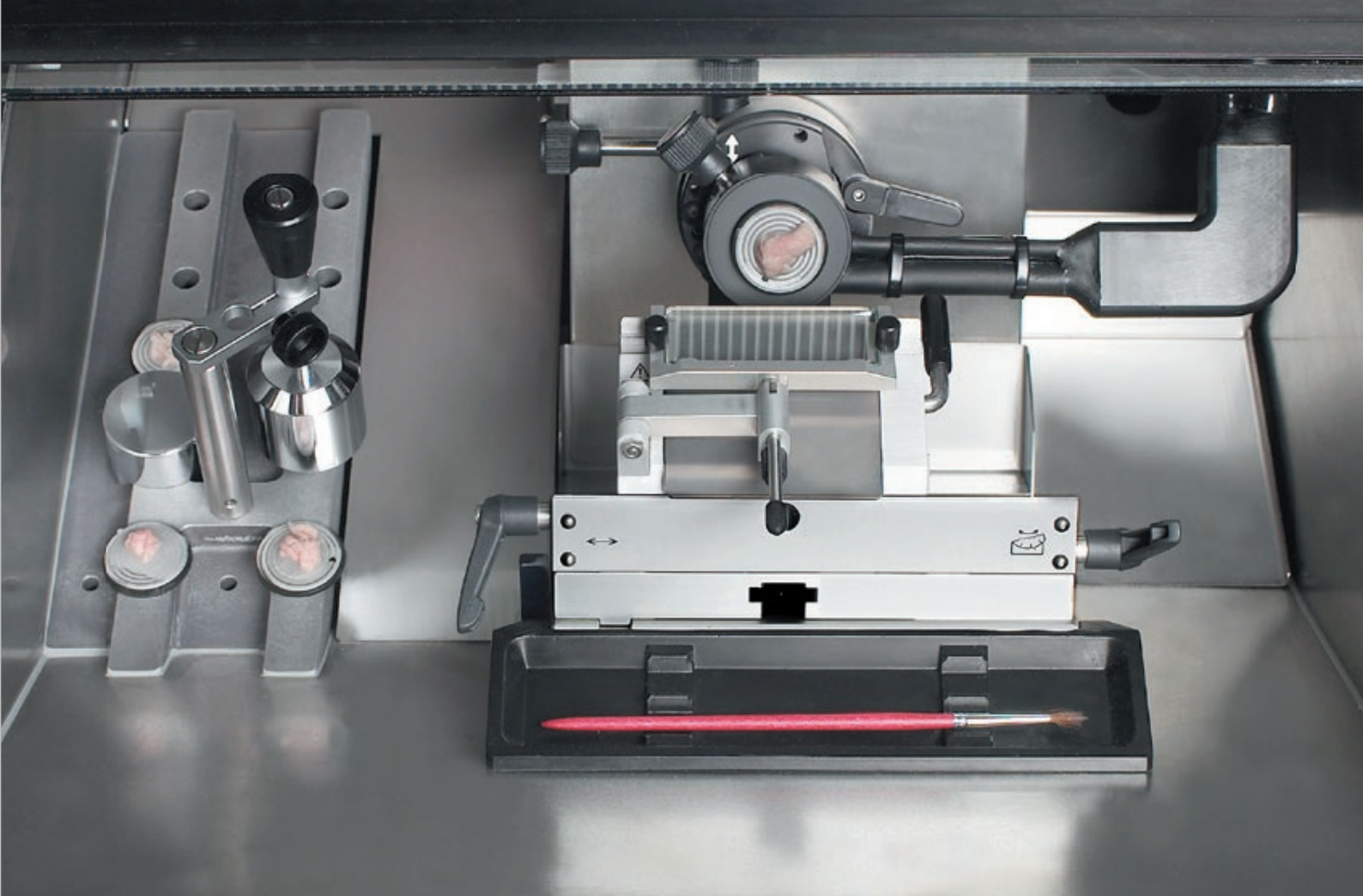
## Multifunctional - Cabinet height adjustment\*

The highly flexible hydraulic cabinet height adjustment gives the user freedom to work comfortably while sitting or standing. All functional keys are easily accessible in any position.



The CryoJane Tape-Transfer System creates frozen sections as thin as 2 microns with the similar quality as sections cut from paraffin blocks. Sections are wrinkle-free, uncompressed, and fully intact when bonded to the microscope slide. CryoJane is suitable for routine and research cryosections and is indispensable for sectioning difficult tissues including fatty breast and undecalcified bone.

\* Option



#### Efficiency - Insulation system

Highly efficient insulating materials enhance the durability of the refrigerating system and support stable cryochamber temperatures, even when producing serial sections all day long.

#### Efficient - Specimen temperature control

An independent refrigeration system ensures powerful specimen temperature control and rapid temperature changes.

#### Spacious - Stainless steel cryochamber

The easily accessible cryochamber provides large space for convenient handling and specimen storage.

#### Functional - The knife holder CE

The lateral displacement feature of the knife holder CE for disposable blades allows the use of the entire blade.

#### Convenient - Programmable reverse section counter and totalizer

With the reverse section counter a preselected number of sections can be carried out in both sectioning and trimming mode. Section thickness totalizer and counter with reset button facilitates target preparation promoting fast trimming between levels.

## TECHNICAL SPECIFICATIONS

### Microtome

Section thickness setting	0.5 to 300 µm
Maximum specimen size	40 mm x 55 mm
Horizontal specimen feed	25 mm
Vertical specimen stroke	59 mm
Specimen retraction	50 µm
Specimen precision orientation	by 8° (x/y/z axis)
Trimming	5 to 150 µm ± 0,5 µm in steps of 5, 10, 30, 50, 100, and 150 µm
Motorized coarse feed at two speeds	500 µm/s 1,000 µm/s

### Cutting Motor

Cutting speed ranges	0.1 mm/s to 170 mm/s
	0.1 mm/s to 100 mm/s
	V <sub>max</sub> 210 mm/s

All specifications related to temperature are valid for a room temperature of 22 °C and an air humidity of less than 60%.

The Leica CM3050 S cryostat is equipped with sectioning motor and available with and without object cooling.

Leica Biosystems – an international company with a strong network of worldwide customer service.

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### Europe Sales and Customer Support

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### Cryochamber Cooling via separate refrigeration system

Temperature setting range	0 °C to -40 °C
Defrosting	programmable 1 automatic defrost cycle/24 h duration: from 6 to 12 min; manual defrosting
Freezing shelf temperature	Approx. -43 °C at an ambient temperature of 22 °C

### Specimen Cooling (optional) via separate refrigeration system

Temperature setting range	-10 °C to -50 °C (+/-3 K)
Defrosting	manual defrosting

### Cryocabinet

Dimensions (w/h/d)	882 x 1040 x 766 mm
Weight (incl. microtome)	approx. 180 kg
Power draw	1800 VA

As confirmed by the successful c-CSA-us certification, the Leica CM3050 S has been designed and manufactured in compliance with UL, CSA and IEC requirements. State-of-the-art development, manufacturing and quality control procedures - certified under DIN EN ISO 9001 - ensure highest quality and reliability. A wide range of accessories available on request. Technical specification subject to change without prior notice.

## LEICA BIOSYSTEMS

Leica Biosystems (LeicaBiosystems.com) is a global leader in workflow solutions and automation, integrating each step in the workflow. As the only company to own the workflow from biopsy to diagnosis, we are uniquely positioned to break down the barriers between each of these steps. Our mission of "Advancing Cancer Diagnostics, Improving Lives" is at the heart of our corporate culture. Our easy-to-use and consistently reliable offerings help improve workflow efficiency and diagnostic confidence. The company is represented in over 100 countries and is headquartered in Nussloch, Germany.

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