



# Leica CM1510 S

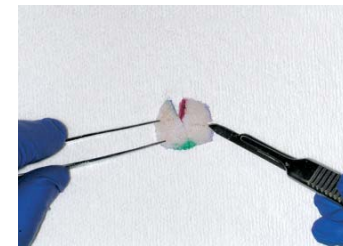
The Economic Cryostat  
for Routine Histology

**Leica**  
MICROSYSTEMS

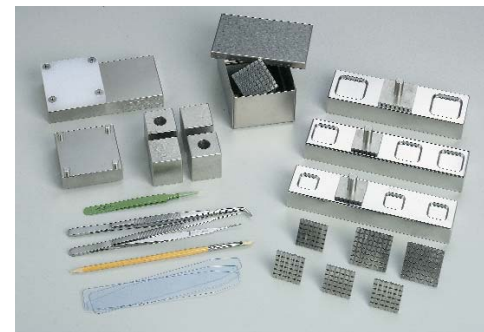
# Compact Dimensions, High Specimen Throughput, Excellent Cost-Performance Ratio

The new Leica CM1510 S is a cryostat which reliably meets all demands in routine cryomicrotomy and excels by outstanding economic efficiency: a very attractively priced instrument which leaves no desires open in its class; compact dimensions – especially advantageous in laboratories where space is limited; high specimen throughput for rapid and efficient performance, and a proven track record of reliability. And of course – just as any other Leica product – the Leica CM1510 S offers exemplary safety standards and is capable of fulfilling even the most exacting operator requirements for excellent ergonomics.

The Leica CM1510 S is the best value cryostat available for Mohs surgery. Mohs micrographic surgery is a means of excising skin cancers in layers, rapidly freezing and cutting thin sections of the frozen tissue samples, and examining the sections microscopically until a layer is reached that is free of tumor.



Precise and fast cryo-embedding with the new Cryoembedding System by Dr. Stephen Peters.\*



#### Fast: Motorized coarse feed

The motorized coarse feed enables rapid trimming. Two different speed settings in each direction for improved efficiency.

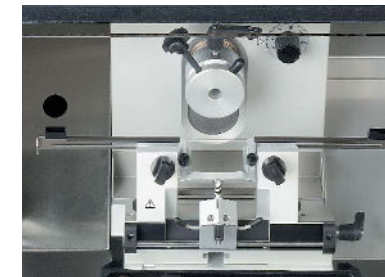
#### Comfortable: The handwheel

To ensure protection against injury when changing specimens and/or knives, the smooth-running handwheel is lockable in the upper position.

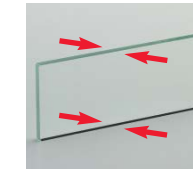


#### Knife holder CN\* for standard microtome knives

The CN knife holder is equipped with a high-quality glass anti-roll plate, as is



the CE knife holder. The edges of the glass insert are manufactured using a special procedure to make them more durable and fracture-resistant. All four edges of the insert can be used.

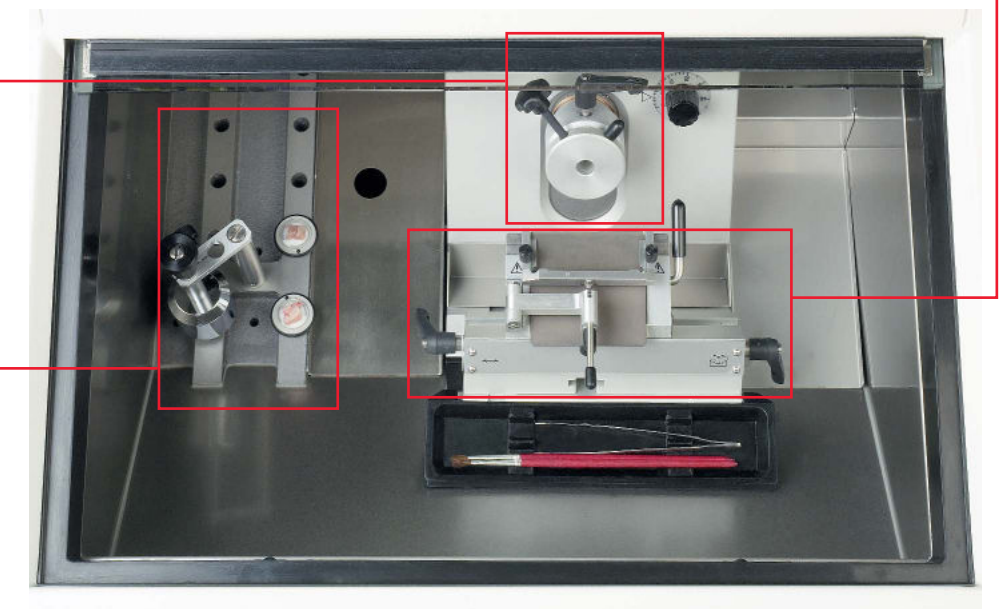


#### Rapid: The specimen orientation

The easy-to-use specimen orientation system produces top quality sections – even of critical samples such as skin – in a minimum of time.

#### Powerful: The quick-freezing shelf

The actively cooled quick-freezing shelf (-45 °C) with heat extractor allows extremely fast specimen freezing. A manual defrost cycle can be activated whenever necessary.



#### Spacious: The stainless steel cryochamber

The perfectly illuminated and insulated cryochamber is easily accessible through a heated sliding window. Ample space is provided for convenient specimen handling.

#### Characteristics of the Leica CM1510 S

- Splash-protected high precision microtome
- Specimen orientation
- Motorized coarse feed in two different speeds
- Cryochamber temperature 0 °C to -30 °C
- Automated and manual cryochamber defrost cycle
- Actively cooled quick freezing shelf, lowest possible temperature -45 °C, with manual defrost on demand
- Illuminated cryochamber
- Heated sliding window, removable
- Compact dimensions
- Cryocabinet on rollers

#### Functional: The CE\* knife holder

The lateral displacement feature of the CE knife holder for disposable blades allows the use of the whole blade length. The integrated glass anti-roll guide is automatically carried along when displacing the knife holder. The CE knife holder is ideally suited for cutting serial sections of up to 3 µm in thickness.

\* Optional accessories

# Leica CM1510 S – Technical specification

Section thickness selection: ..... 1 to 60 µm:  
 in 1-µm steps from 1 to 10 µm  
 in 2-µm steps from 10 to 20 µm  
 in 5-µm steps from 20 to 60 µm

Maximum specimen size: ..... 55 mm Ø

Total horizontal specimen feed: ..... 25 mm

Total vertical specimen stroke: ..... 59 mm

Specimen orientation: ..... with 0-positioning,  
 8° x/y, part of standard delivery

Trimming: ..... via motorized coarse feed

Motorized coarse feed: ..... 2 speed settings:  
 rapid: 0.65 mm/sec  
 slow: 0.3 mm/sec

## Refrigerating capacity:

Temperature selection range: ..... 0 °C to -30 °C

Time required to refrigerate to -30°C: ..... approx. 3 h  
 at 22 °C ambient temperature

As confirmed by the successful c-CSA-us certification, the Leica CM1510 S has been designed and manufactured in compliance with UL, CSA and IEC requirements.

State-of-the-art development, manufacturing and quality control

Chamber defrosting: ..... automatic hot gas defrosting cycle;  
 duration: 8 min. Starting time  
 freely programmable;  
 manual defrost cycle on demand

Temperature  
 of quick freeze shelf: ..... max. -45 °C  
 at a cryochamber temperature of -30 °C

Quick freeze  
 shelf defrosting: ..... manual defrost cycle on demand

## Cryocabinet:

Dimensions (W x H x D): ..... 680 x 1175 x 680 mm

Weight (incl. microtome): ..... 120 kg

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.

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