

# Microtome Cryostat Dual Compressor for histological samples



Innovative life science solutions

## Technical features

Microtome
Section thickness range: 0,5 ~ 100 µm
0,5 to 5 µm in 0,5 µm increments
5 to 20 µm in 1 µm increments
20 to 40 µm in 2 µm increments
40 to 100 µm in 5 µm increments
Trimming thickness range: 10 ~ 600 µm
10 to 50 µm in 5 µm increments
50 to 100 µm in 10 µm increments
100 to 600 µm in 50 µm increments
Vertical stroke
65 mm
Horizontal feed
25 mm
Retraction
Specimen retraction: 0,5-100 µm (0.5 µm increments, can be deactivated)
Maximum specimen size
80 X 55 mm
Specimen orientation
Horizontal: 8, vertical: 8, rotation 360°
Specimen fast moving speed: Fast 900 µm/s Slow 450 µm/s

Cryostat
Refrigerating capacity: 690 W
Chamber temperature: 0°C ~ -50°C adjustable
Specimen temperature: -10°C ~ -45°C adjustable
Defrosting: manual/automatic programmable (24h, duration 9 min.)
Freezing plate temperature: -50°C
Number of freezing station: 18
Peltier numbers: 6 a ~ -60°C
Refrigerant: R404a, 300g±10g
Compressor oil: 0.6L EMKARATE RL-22S, ICI

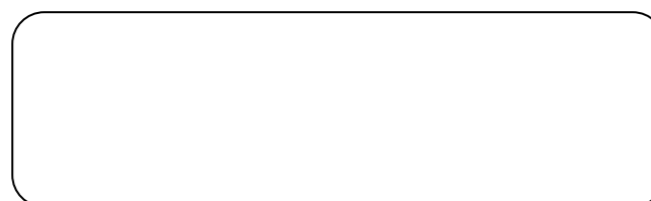
Technical data
Power supply: 220V ~ 230V at 50 ~ 60Hz
Relative humidity: 10 to 80%
Maximum power draw: 850 V/A

Size and weight
Width: 760 mm (705 mm without hand wheel)
Depth : 700 mm
Height: 1160 mm
Weight: 135 kg

Certifications
CE-IVD

For up-to-date features, please refer to the instrument data sheet.  
Technical specifications are subject to change without notice.

Distributed by:



Histo-Line Laboratories s.r.l.

Viale G. di Vittorio, 30 | 20048 Pantigliate (MI) ITALY  
Phone +39 0255230061 | Fax +39 0255213764  
histoline@histoline.com | [www.histoline.com](http://www.histoline.com)



## Microtome Cryostat Dual Compressor for histological samples

Simple, reliable and low cost cryotomy

MC5000



English

# Microtome Cryostat Dual Compressor for histological samples

## The system advantages



### Ergonomic design provides easy accessibility

Easy and intuitive control panel allocated in front of operator where it can test and check all the parameters: cryochamber, specimen, shelter and peltier.



### The precision to cut

Microtome cryostat **double compressor** for cut quality sections with consistent thickness, supported by the microtome's precision **step motor**.



### Stable and without vibrations

A **fully encapsulated** microtome reduces the time to clean the cryostat significantly.

### Anti-roll integrated

Orientable head. Allows uniform orientation and perfect alignment of the sample.



### Easy to use, easy to work

Single **function keys** and easily readable displays provide all relevant functions literally at the "push of one button".



### High performance

**Defrost automatic** with hot gas defrost, automatic defrost cycle/24 hours, time-controlled.

Liquid condensate and **waste are collected** in a condensate bottle, easy to remove and to clean.



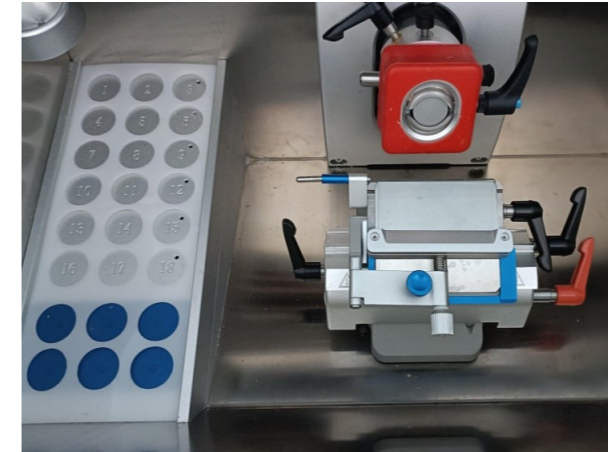
### Reduce risk of cutting injuries

The hand wheel can be locked at any position, so as to ensure the safety of the operation.



# The Cryostat, designed for clinical and research procedure

Is an innovative, smart tissue cryostat for routine histopathology applications with UVC for increased user safety



### Safety first

Accurately align the block face to the blade edge, using the specimen orientation **system with zero-position** centering.

The **blade ejector** and magnetic brush enable the user to safely remove the blade from the blade holder without touching it.

Blade holder with adjustable cutting angle to the use of any type of disposable blades.



### Protection through uv disinfection

The **UVC disinfection** option is active against a broad variety of bacteria, fungi, and viruses, including SARS-CoV-2. When the cryostat is urgently needed during disinfection, simply open the glass door and start your work.



### Fast to work

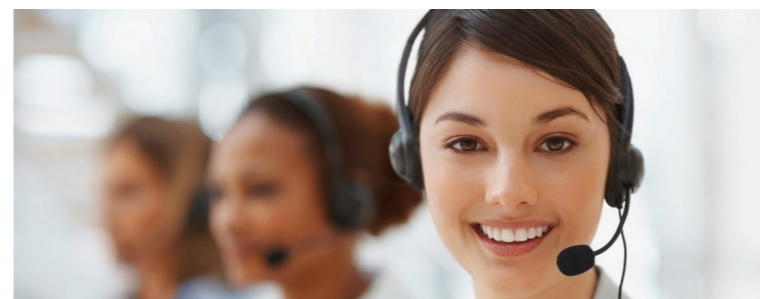
**Quick freeze** with freezing shelf and a Peltier element, providing additional cooling down to **-60°C** below .

Anti-fog and thermally insulating glass

## Technical support and after sale

Histo-Line offers a complete technical support for you. We find together the best solution for you and your instrument in certain and quick times.

Technical Support Products specialist@histoline.com  
Technical Support Equipments techservice@histoline.com



## Histo-Line complete range of solutions for Cryotomy



MC4000  
Microtome cryostat  
Dual compressor



MC5050  
Microtome cryostat  
Semi automatic