

Microtome Cryostat with retraction for histological samples



Innovative life science solutions

Technical features

| Microtome |
|--|
| Section thickness range: 1 ~ 100 µm |
| 1 to 10 µm in 1 µm increments |
| 10 to 20 µm in 2 µm increments |
| 20 to 50 µm in 5µm increments |
| 50 to 100 µm in 10 µm increments |
| Trimming thickness range: 1 ~ 600 µm |
| 1 to 20 µm in 2 µm increments |
| 20 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 |
| 59 mm |
| Horizontal stroke |
| 22 mm |
| Retraction |
| Specimen retraction: 0-200 µm (can be deactivated) |
| Maximum specimen size |
| 55 X 55 mm |
| Specimen orientation |
| Horizontal and vertical: 12°, rotation 360° |
| Specimen fast moving speed: 700 µm/s |

| Cryostat |
|--|
| Refrigerating capacity: 690 W |
| Chamber temperature: 10°C ~ -35°C adjustable |
| Defrosting: manual/automatic programmable (24h, duration 9 min.) |
| Freezing plate temperature: -40°C |
| Number of freezing station: 18 |
| Peltier numbers: 2 at ≤-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: 1200 V/A |

| Size and weight |
|--|
| Width: 780 mm (760 mm without handwheel) |
| Depth : 700 mm |
| Height: 1280 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:



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Applications of routine histopathology

MC5050



English

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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 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.



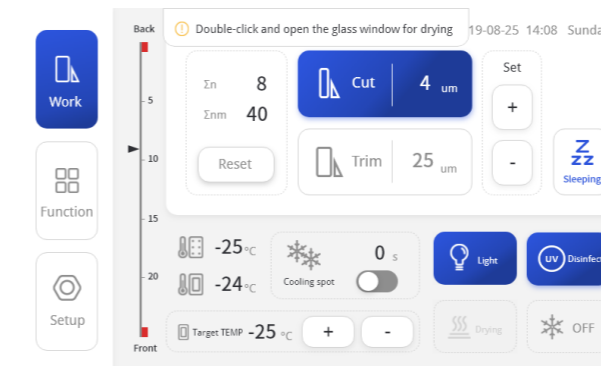
Reduce risk of cutting injuries

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



The Cryostat, with innovative design, suitable for your needs

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

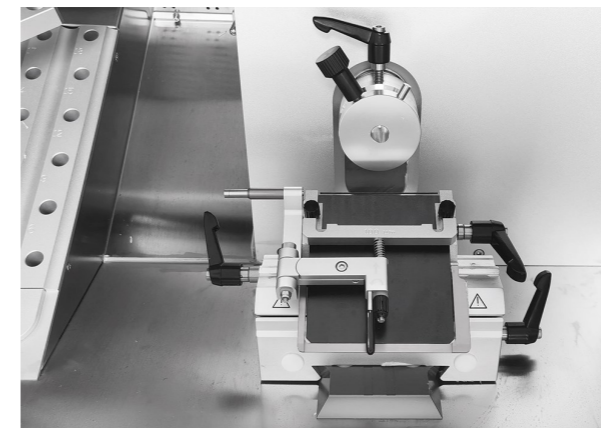


Safety first

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 commence your work.



Fast to work

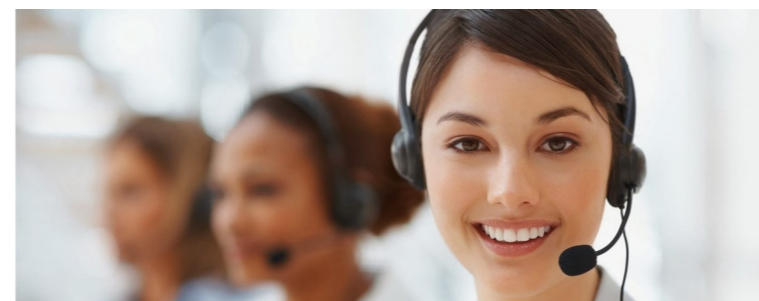
Quick freeze with freezing shelf and a Peltier element, providing additional cooling down to **-60°C** below .

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



MC5000
Microtome cryostat
Dual compressor