



APPLICATIONS

HISTOPATHOLOGY/NEUROSCIENCE

- » Histology
- » Pathology
- » Biological tissue
- » Whole-body sections
- » Organ sampling
- » Paraffin sections
- » Spinal column

MATERIAL TESTING

- » Cabling/submarine cabling
- » Lacquer coats/
lacquer application
- » Metals
- » Foils
- » Plastics/plastic weld seams
- » Material damage analysis
- » Wood
- » Prostheses/implants
- » Deep-frozen elastomers
(with liquid nitrogen cooling
unit)

microTec® Laborgeräte GmbH

Precision machinery – Made in Germany

We are manufacturers of rotary and sliding microtomes for clinical histopathology, cytology, biomedical research and industry.

We have been manufacturing microtomes for our customers around the world for more than 25 years. Applying our expertise as specialists in toolmaking and mechanical engineering, we manufacture these products with the highest level of precision and quality.

On account of our association with tool manufacturer GANTER Werkzeug- und Maschinenbau GmbH, we are able to offer complex special solutions and custom-manufactured clamping systems and special knives for microtomes.



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- » Medical technology
- » Biology
- » Industrial applications

microTec®

MIKROTOM-XL

Fully automatic high-performance
sliding microtome

Fast, accurate and fatigue-free sectioning for
use in medical and industrial applications.
Sample sizes ranging up to 260 x 200 x 70 mm.

MIKROTOM-XL

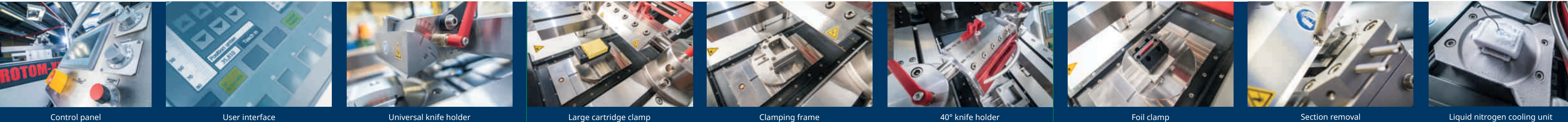
The Mikrotom-XL is a high-performance sliding microtome for biomedical and industrial applications. The microtome is fully automated and features a control panel with electronic hand wheels and a touch screen with which settings can be quickly and simply applied. By means of precise sample alignment and a freely adjustable declination angle, the Mikrotom-XL delivers incredibly precise sections for all conceivable applications. We would be happy to develop solutions to suit any special requirements you might have.

BENEFITS

- » Quick and accurate alignment of the sample with the knife
- » Magnetic sample orientation, rotatable by 360° and inclinable by $\pm 5^\circ$
- » Individual sectioning window with freely programmable front and rear starting and finishing points
- » Adjustable sectioning and reversing speeds
- » Freely configurable trim values for fast and accurate trimming of samples

FEATURES

- » High-quality Siemens touch screen
- » High-precision adjusting spindles
- » High-quality cross roller guides
- » Control panel on a telescopic arm, can be positioned to the left or right of the device
- » Magnifier with integrated light
- » Foot switch with start function
- » Entire assembly is low-maintenance
- » Designed and manufactured in Germany
- » Control unit can be supplied in any language (multi-lingual)



Control panel

User interface

Universal knife holder

Large cartridge clamp

Clamping frame

40° knife holder

Foil clamp

Section removal

Liquid nitrogen cooling unit

Sections & Knives

- Freely configurable sectioning window
- Section thickness ranging from 1 to 1,000 μm , adjustable in 1 μm intervals
- Sectioning speed ranging from 1 to 125 mm/s, continuously adjustable
- Vertical knife stroke distance: 70 mm
- Knife retraction: freely configurable
- Knife clearance angle adjustment freely configurable from 0° to -30°
- Knife declination freely configurable from 0° to 80° (in case of adjustable knife holder)
- Freely configurable collision protection level

Samples

- Maximum sample size: 260 x 200 x 70 mm
- Sample orientation: rotatable 360° and inclinable $\pm 5^\circ$ on the x-/y-axis
- Mounting of the sample clamping device via a magnet or T-shaped grooved plate
- Reversing speed ranging from 1 to 125 mm/s adjustable in 1 mm/s intervals
- Manual moving of samples using an electronic hand wheel (sectioning speed can be adjusted using an incremental encoder/potentiometer)

Control & Drive Units

- A separate drive unit for knife and object movement
- Three sectioning functions: button-activated, single and continuous stroke (can be started via control panel or foot switch)
- Rated voltage: 400 V, 16 A
- Rated frequency: 50 Hz
- Power input: 1.5 kW
- Rated current: 6.3 A
- Total power consumption: max. 1,500 VA
- Fuse: 16 A

Dimensions

- Working height: 950 mm
- Control panel: 400 x 470 x 150 mm plus telescopic arm
- Required installation space for the entire assembly: 1,600 x 1,400 mm
- Total weight: 550 kg



Mikrotom-XL



Mikrotom-XL with liquid nitrogen cooling unit and safety housing when in continuous stroke mode