
Tissue-Tek AutoSection® Automated Microtome

*Imagine... microtomy
at the touch of a button*



continuous innovation for pathology





SAKURA



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Innovation in microtomy has arrived

Laboratories are in a state of constant change, optimising their workflow to be able to cope with the growing amount of daily cases. Sakura Finetek is a partner in change, providing you a fully automated SMART microtome, the Tissue-Tek AutoSection®.

The Tissue-Tek AutoSection automatically aligns and trims your blocks, including Tissue-Tek Paraform®.

The combination of cutting edge technology and the razor sharp Accu-Edge® Paraform® Microtome Blade enables uniform, high-quality sections consistently. Preserve your precious tissue with the unique AutoAlign™ technology and with AutoTrim™, blocks are ready for sectioning within seconds, saving valuable time.



AutoSection automated microtome

- **Consistent high-quality sectioning**
- **Preservation of valuable tissue**
- **Improved efficiency**
- **Reduction of repetitive motions**

The AutoSection is designed to improve efficiency in your laboratory's sectioning workflow. Trimming at the touch of a button, eliminating repetitive straining injuries caused by rotary motions.



AutoAlign™

One of the most important features is the 3D alignment technology: the block holder automatically aligns the block to the blade, ensuring precise sectioning from the beginning. This technology replaces manual orientation of the block, leading to consistent, high-quality sections. Valuable tissue will be saved in the process and the technician's time can be used more efficiently.

Essential in the microtomy process is consistent and accurate sectioning. This will be achieved by the AutoSection and Sakura Accu-Edge Paraform Disposable Microtome Blades, a recommended combination for high-quality results.



AutoTrim™

The AutoTrim technology facilitates fast, standardised and exact trimming for most commonly used cassette types, including Tissue-Tek® Paraform® cassettes. By automating, the trimming process will be finished in seconds, saving valuable time and eliminating repetitive handwheel motion. With one touch of a button, blocks are repetitive handwheel motion trimmed and ready for sectioning.

Precision sectioning

Cut sections of a consistent thickness in microtomy as preparation for H&E staining and IHC staining.

Programming

With the 16 user-defined programs, the AutoSection enables you to implement your own standardised protocols for specific tissues or block types.







Recutting

Regardless of the previously used microtome, the AutoSection automatically aligns the block to blade and preserves valuable tissue.

User convenience

AutoSection provides one-touch operation. The wireless remote control can be used for remote operation of the system, providing an convenient solution for right- as well as left-handed users. During sectioning the system can be interrupted by a press on the foot pedal, which gives the user the possibility to keep both hands free for handling the ribbon.

Total Microtomy Solution

Sakura Finetek understands that you want to improve your productivity in the laboratory and increase the safety of those who work there. Our solutions allow you to gain consistent high-quality sectioning for a complete microtomy solution.

The user-friendly solutions do not stop with the Tissue-Tek AutoSection®. Combine the Accu-Edge® Blades and a selection of value added Sakura services, like the AutoSection User Training, to provide your laboratory with a total solution.

Tissue-Tek AutoSection®

Automated Microtome

Specifications



General

Name and description	Tissue-Tek AutoSection® Automated Microtome
Itemcode	5000
Dimensions (WxDxH)	42 x 67 x 44 cm
Weight	55 kg

Electrical

Rated power supply	230VAC ±10%, 50/60 Hz, single phase, 4.1 Amps
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Environmental

Operational temperature range	+10 °C to +40 °C
Operational relative humidity	30 to 75%, non-condensing
Storage temperature	-20 °C to +65 °C
Storage relative humidity	30 to 90%, non-condensing
Storage atmospheric pressure	70 - 106 kPa

Operating

Section thickness range	0.5 - 100 μm
Sectioning speed	10 - 450 mm/sec
Typical horizontal stroke	9.4 mm
Typical vertical stroke	132.0 mm
Retraction distance	No retraction, 20 - 100 μm
Trimming thickness	1.0 - 200 μm
Trimming speed	10 - 450 mm/sec
Vertical and horizontal axes adjustment range	$\pm 4^\circ$
Angle resolution	0.05°
Alignment to the blade edge	$\pm 0.05^\circ$
Alignment distance to the blade	$\pm 10 \mu\text{m}$

User interface

Control	LCD touch screen Bluetooth wireless remote
Data interface	USB data port

Certifications

Regulatory status	EU 2017/746 CE IVD, Class A Device
Conformity	IEC 61010-1:2010, IEC 61010-2-101:2018, ISO 18113-1:2009, ISO 18113-3:2009, ISO 13485:2016, ISO 14971:2019, ISO 15223-1:2021, EN 13612:2002, ISO/IEC 17050-1:2010, 2011/65/EC, 2014/35/EU, BS/EN/IEC 61326-1:2021 and BS/EN/IEC 61326-2-6:2021, 21 CFR 820.







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