
Tissue-Tek AutoSection®
Automated Microtome

**Fully automated
SMART microtomy**



continuous innovation for pathology



“The AutoSection has greatly improved our efficiencies for recuts. Even our pathologist have realized the benefits, they request certain recuts only be performed on the AutoSection because they know that the AutoSection preserves tissue”.

Kendra Foster

IHC Supervisor
The University of Arkansas for
Medical Sciences

The world's first SMART microtome

Tissue-Tek AutoSection® is more than just a motorized microtome, it is a microtome with a brain. Optimized for use with Accu-Edge® High Profile blades, the Tissue-Tek AutoSection will conserve valuable tissue and provide high-quality sections with the reproducibility required for routine and advanced staining.

Extraordinary innovation

- AutoAlign™ and AutoTrim™ technologies
- Programmable sectioning
- LCD touchscreen control panel
- Bluetooth® wireless remote control
- Multiple user-safety features
- Easy to learn, easy to use, easy to control

A brilliant advancement in microtome technology – section quality that you have always desired

- Compared to manual and motorized microtomes the AutoSection showed the highest precision in section thickness using IHC staining and digital imaging technology*
- Reduce exposures to movements that can contribute to musculoskeletal disorders by taking advantage of total automation
- Safely and easily insert and remove blocks into the 3D Chuck/Specimen Holder while being protected by the automatic electronic brake
- Produce and reproduce incredible sections with the first and only stationary, one-piece disposable blade holder and base
- Conveniently operate with either the LCD touchscreen control panel or the Bluetooth® wireless remote control that can be placed on either side of the microtome
- Collect ribbons that are reliably consistent in thickness and quality

* ROBOTIC AND SEMI-AUTOMATED MICROTOMY CAN DECREASE VARIABILITY IN HER2 STAINING INTENSITY- Poster USCAP 2017

Fully automated with AutoAlign, AutoTrim, and Programmable Sectioning

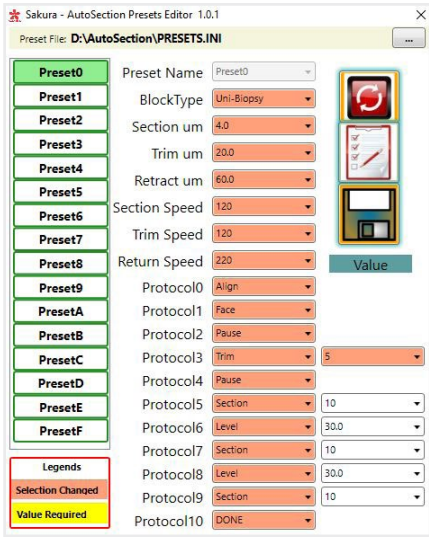


AutoAlign – makes recuts a breeze

- No tedious manual adjustments or trying to see behind the blade holder – the patented AutoAlign feature automatically aligns the block to the blade in seconds using the 3D chuck and sensing plate, regardless of which microtome was previously used to cut the block
- Preserve tissue by using the Blade Calibrate function to measure the height of a blade and prevent a thick first cut
- Employs innovative and patented sensing and automated 3D Chuck/Specimen Holder technology for precise XYZ block orientation

AutoTrim – quickly and safely trims blocks with one-touch operation

- Save time in the workflow when using immediately after AutoAlign
- Automatically and efficiently trim blocks without the need for the user to reach for or turn hand wheels
- Preserve valuable tissue in the block using conservative user-created programs or user interaction
- Optimize protocols to expedite trimming of Tissue-Tek® Paraform® Cassettes



Programmable Sectioning – easy to learn, easy to use, easy to control

- Experience one-touch operation for precision sectioning and consistent section quality
- Standardize sectioning protocols for all users and tissue types
- Increase process efficiency for new and experienced users
- Create up to 16 user-defined trimming/sectioning protocols
- Define operating parameters by selecting up to 15 presets for a variety of sectioning protocols (including block size, thickness, and speed)
- Offers a hand wheel for manual use



User safety features – help prevent injuries

- Ergonomic design and complete automation saves wrists, elbows, and shoulders from unnecessary pain caused by Musculoskeletal Disorders associated with the repetitive motions required for microtome hand wheel rotation
- The first and only automated microtome designed with visual, audio and hardware safeguards to prevent users from accidentally cutting themselves
- To prevent unexpected movement, the 3D Chuck/Specimen Holder arm is electronically locked when not in use until a user commands the AutoSection to start a function
- The exclusive sliding dispense and Pilot Pin features of the Low Profile Accu-Edge blade cartridges enable the user to safely insert a blade into the blade holder without touching it
- The red blade guard can be rotated UP to cover the blade edge and protect the user from accidental cuts when hands are in the sectioning area
- The wireless remote enables hands-free operation for both right- and left-handed users

Specifications

| | |
|--|---|
| Product name | Tissue-Tek AutoSection® Automated Microtome |
| Product code | 5010 |
| Applications | Sectioning of paraffin-embedded specimens for routine and research histopathology |
| Rated voltage and current | Single phase, 115VAC ± 10%, 50/60 Hz, 7.1A |
| Dimensions | 16.5 (W) x 26.4 (D) x 17.4 (H) inches 42 (W) x 67 (D) x 44 (H) cm |
| Weight | 121 lbs (55 kg) |
| Administrator access | Password protected |
| Section thickness | 0.5 - 100 microns |
| Trimming thickness | 1 - 200 microns |
| Retraction distance | No retraction, 20-100 microns |
| Sectioning speed | 10 - 450 mm/second |
| Trimming speed | 10 - 450 mm/second |
| Return speed | 10 - 450 mm/second |
| Typical vertical stroke | 5.2 inches (132 mm) |
| Typical horizontal stroke | 0.37 inch (9.4 mm) |
| Number of presets | Up to 15 |
| Number of protocol steps | Up to 16 |
| Number of user preferences | Up to 32 |
| 3D Chuck/ Specimen Holder | Vertical and horizontal axes adjustment range ± 4° |
| 3D Chuck/ Specimen Holder angle resolution | 0.05° |
| Blade angle | Fixed |
| Alignment to the blade edge | ±0.05° |
| Alignment distance to the blade | +/-10 microns |
| User interface display | 4.3" color LCD touchscreen with 480 x 272 pixels |
| Remote | Bluetooth® wireless remote |
| Data interface | USB 2.0 |
| Certifications | UL 61010-1, CAN/CSA C22.2 61010-1, CAN/CSA C22.2 61010-2-101, IEC 61010-1:2001, IEC61010-2-101, EMC |
| Regulatory status | IVD, FDA Class I |

Bluetooth is a registered trademark of Bluetooth SIG, Inc.

Consumables

| Product code | Product name and quantity |
|--------------|---|
| 4650 | Tissue-Tek® Cold Plate; 25 x 10 x 3 cm; 24/case |
| 4658 | Waste Collection Bags; 250/case |
| 4685 | Accu-Edge® High-Profile Disposable Blades; 500/case |
| 4689 | Accu-Edge® Low-Profile Disposable Blades; 500/case |
| 4980 | Tissue-Tek® Feather® A35 Durable Low-Profile Blades; 500/case |
| 7089 | Tissue-Tek® Feather® Low-Profile Blades; 500/case |

Feather is a registered trademark of Feather Safety Razor Co. and is used with permission





A long tradition of excellence

Known for best-in-class automation and reliability Sakura Finetek remains a privately-held company in business for over 160 years. Sakura Finetek has achieved its success and solidified its reputation by providing timely, ingenious solutions to the real challenges laboratories face on a day-to-day basis.

Our rich history has given us a thorough understanding of technology, quality, reliability, value for money and our customers' requirements. We use this knowledge to passionately develop products that anticipate developments in both technology and market needs.

Sakura Finetek USA, Inc. (SFA) is based in Torrance, California. Functions covered at this facility include sales and marketing, service and technical support, R&D, and manufacturing. SFA is an ISO 13485 certified manufacturer and supplier. As one of the two global manufacturing and R&D sites, SFA develops instruments and reagents into system solutions and secures our innovation with a steady stream of patents.

In addition to supporting the U.S. marketplace, SFA is also responsible for Canada, Mexico, Central and South

America and serves these markets with a network of local distributors.

With the worldwide headquarters in Japan and regional offices in Japan, The Netherlands and the U.S.A., the global strategy of worldwide representation has been fulfilled to guarantee our customers the best service and support.

Our organization is developing, professionalizing and growing continuously, and thus maintaining its position as a trustworthy and valuable partner in histopathology.

Please visit our website www.sakuraus.com

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