
Accu-Cut® SRM™ 300 LT
Manual Microtome

**Illuminating the future
of microtomy**



continuous innovation for pathology





Manual microtomy is now illuminated

The Accu-Cut® SRM™ 300 LT is the first and only American made manual microtome with a patented LED backlit chuck to illuminate paraffin embedded tissue samples making them much easier to see and safer to section.

Two models are available, with and without specimen retraction.

The course hand wheel is user-selectable for either clockwise or counter clockwise rotation.

The Accu-Cut SRM 300 LT comes with a space saving Tool Organizer that fits on top of the microtome to store tools and dry slides before staining.

Sakura Finetek microtomes combined with the Accu-Edge® microtome blades provide a full range of cutting edge solutions for daily microtomy.



Accu-Cut SRM 300 LT – shining a new light on manual microtomy



LED backlit chuck for improved visualization of the specimen in the block

The Accu-Cut SRM 300 LT is the first and only manual microtome with a LED backlit chuck that increases the contrast between specimens and paraffin without warming the block. Users can now be confident in seeing exactly where the tissue is located to prevent cutting through a small biopsy or previously sectioned block.

- 4 user selectable LED color options: white, red, green and blue
- Independent adjustable intensity for each color
- Ability to create any color by mixing the color intensities to contrast the specimen against cassette and paraffin
- Electronic LED back light can be turned on and off



Precision orientation for precise block alignment

The Accu-Cut SRM 300 LT features a 3D Precision Chuck for accurate alignment of the block face to the blade, which is crucial for recuts.

- Quick and precise fine angle adjustments on all 3 axes (XYZ)
- Chuck retains its position when locked or unlocked
- Dial indicators display the angle position of the chuck ($\pm 8^\circ$)
- Quickly and accurately return to a zero position
- Universal cassette clamp accommodates most common cassettes

Ergonomic design for comfortable sectioning

The compact and ergonomic design of the Accu-Cut SRM 300 LT helps to minimize cumulative stress on the user and increases both efficiency and productivity.

- A smooth-running, conveniently positioned hand wheel reduces fatigue
- An optional ergonomic oblong handle is available for even more comfortable sectioning
- The course hand wheel is optimally sized and positioned for comfortable trimming in either clockwise or counter clockwise rotation, switchable by the user
- The trimming lever can be engaged to advance the chuck 10 or 40 microns to reduce the number of hand wheel rotations for quick trimming
- Immediate response to hand wheel movements require less user effort to move the chuck



Built-in safety features to protect users from microtomy injuries

The Accu-Cut SRM 300 LT includes many exclusive features that reduce the risk of accidental injuries associated with blade exposure.

- The first and only brake lock indicator provides users with peace-of-mind by displaying that the chuck is locked and will not move while the user interacts with the microtome
- The universal blade holder can be moved laterally on its base to allow full utilization of the blade edge without having to change the clamping pressure on the blade or touch it until it is completely used
- The red blade guard can be set in the UP position to protect the user from accidental exposure to the blade edge while sectioning
- 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

Spacious, easy to clean waste tray

- The Accu-Cut SRM 300 LT features a large and comfortably shaped waste tray for efficient removal of paraffin waste
- The waste tray easily snaps in and out for quick removal and cleaning
- Two integrated forceps cleaners are available on the right and left sides of the tray
- The waste tray has an exclusive built-in slot and waste bag attachment system for convenient waste collection and disposal
- Disposable plastic waste bags help to keep the microtome area clean

Convenient accessories

The Accu-Cut SRM 300 LT is the first and only microtome with a space-saving Tool Organizer giving back precious bench space. The Tool Organizer sits on top of the microtome and holds Kimwipes®, blade cartridges, brushes, forceps, teasing needles, pencils and has 40 slots to air-dry slides, all in one central location.

Specifications

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| Product names | Accu-Cut® SRM™ 300 LT Manual Microtome, Retracting Accu-Cut® SRM™ 300 LT Manual Microtome, Non-Retracting |
| Product codes | 1300 1300N |
| Application | Sectioning of paraffin-embedded specimens for routine and research histopathology |
| Dimensions | 16.5 (W) x 20.7 (D) x 11.8 (H) inches 41.9 (W) x 52.5 (D) x 30 (H) cm |
| Weight | 68.0 lbs (30.8 kg) |
| Section thickness | 1 to 40 microns total 1 to 10 microns: in 1 micron increments 10 to 20 microns: in 2 micron increments 20 to 40 microns: in 5 micron increments |
| Trimming thickness lever | 10 or 40 microns |
| Retraction distance | No retraction or 20 microns (factory set) |
| Vertical stroke | 64 mm |
| Horizontal stroke | 26.9 mm |
| Coarse feed advance | User switchable: clockwise or counter clockwise |
| Specimen orientation using the 3D Precision Chuck | ±8° (XYZ axes) Dial indicators show the exact angle of the chuck |
| LED backlit chuck | 4 color electronic LED back light (white, red, green and blue) with user-adjustable intensity for each color, on-off option |
| Rated voltage and current for LED light | 100-240 VAC, 50/60 Hz, 0.5 A Instrument: 12 VDC, 0.3 A |
| Blade angle | 0 to 10° |
| Blade holder base: | |
| North/south (vertical direction) | 25 mm |
| East/west (horizontal direction) | 60 mm |
| User interface display | Key pad to control the electronic LED back light Brake light indicator |
| Certifications | UL61010-1:2012 Ed. 3, UL61010-2-101:2015 Ed. 2, CSA C22.2 #61010-1-12:2012 Ed. 3, CSA C22.2 #61010-2-101:2015 Ed. 2, IEC61010-1:2010 Ed. 3, IEC61010-2-101:2015 Ed. 2, IEC 61326-1, IEC61326-2-6 |
| Regulatory status | IVD, FDA Class I |



Accessories and consumables

| Product code | Product name and quantity |
|--------------|---|
| 1302 | Accu-Cut® SRM™ 300 LT Specimen Holder with LED back light; 1 unit |
| 1303 | Accu-Cut® SRM™ 300 LT Tool Organizer; 1 unit |
| 1304 | Accu-Cut® SRM™ 300 LT Waste Tray; 1 unit |
| 1305 | Accu-Cut® SRM™ 300 LT Maintenance Kit; 1 kit |
| 1306 | Accu-Cut® SRM™ 300 LT Blade Holder Assembly; 1 unit |
| 4650 | Tissue-Tek® Cold Plates; 25 x 10 x 3 cm; 24/case |
| 4658 | Tissue-Tek® Waste Collection Bags; 250/case |
| 4685 | Accu-Edge® High Profile Microtome Blades; 500/case |
| 4689 | Accu-Edge® Low Profile Microtome Blades; 500/case |
| 4980 | Tissue-Tek® Feather® A35 Durable Low Profile Microtome Blades; 500/case |
| 6216 | Tissue-Tek® Cryo ₃ ® Flex Oblong Ergonomic Handle; 1 unit |
| 7089 | Tissue-Tek® Feather® Low-Profile Blades; 500/case |

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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.

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

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