
Tissue-Tek AutoTEC® a120
Automated Embedding System

**Make the move to
automated embedding**



continuous innovation for pathology



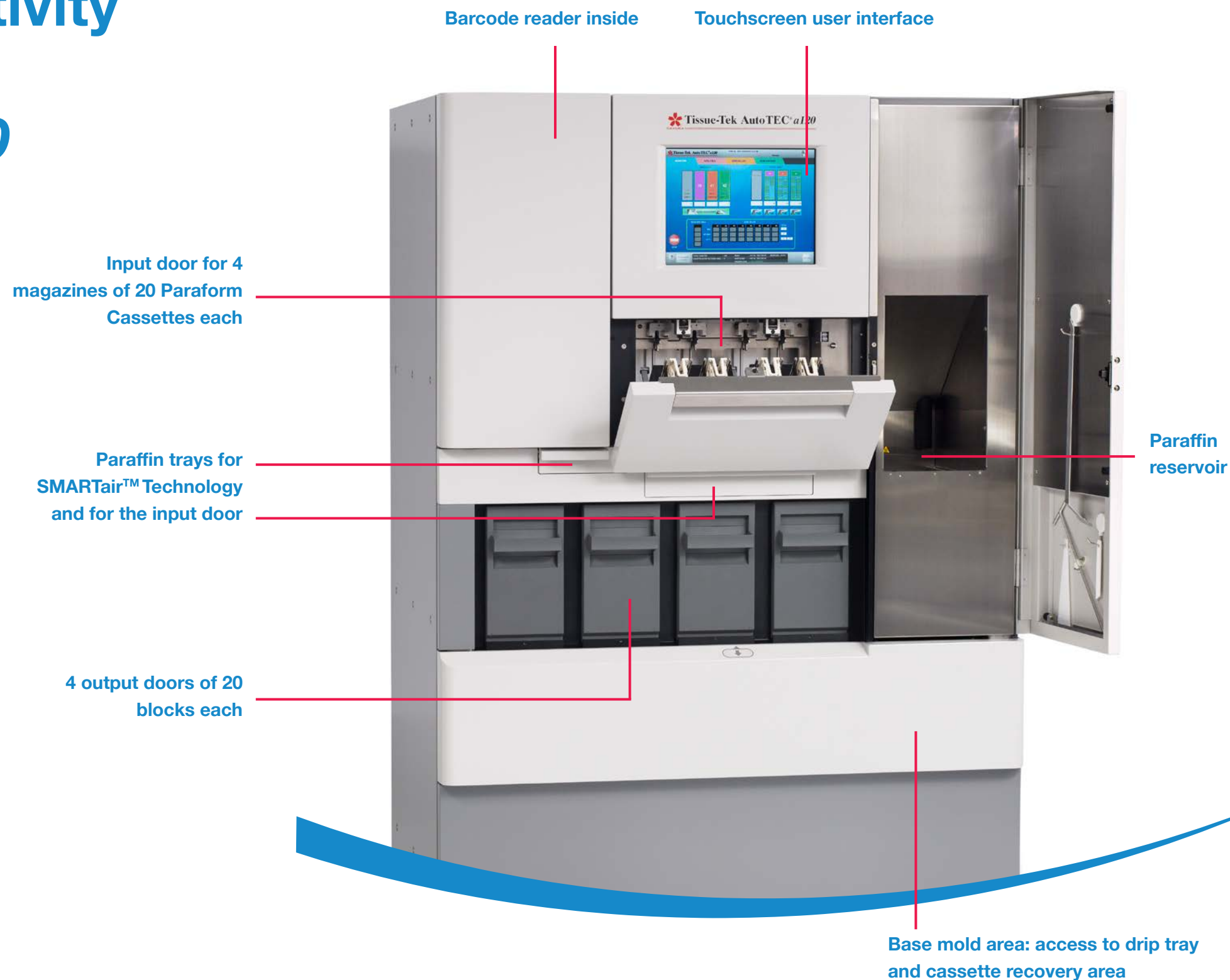
Expect quality, productivity and specimen integrity from the AutoTEC a120

The Tissue-Tek AutoTEC a120 is the only fully automated embedder that consistently produces up to 120 high quality blocks per hour.

Using the unique Tissue-Tek® Paraform® Sectionable Cassette System, specimen orientation is locked from grossing to microtomy, maximizing productivity. In combination with the Tissue-Tek Xpress® x120 and Tissue-Tek AutoSection®, the AutoTEC a120 makes faster turnaround time predictable.

Enhanced features include

- On-board barcode reader for LIS connectivity and traceability of blocks
- SMARTair™ Technology removes excess paraffin from tissue processing
- Large, 15-inch touchscreen and enhanced operating system is user friendly
- Ergonomically positioned paraffin reservoir for easy replenishing
- Minimal user maintenance from the AutoTEC a120 and Tissue-Tek® iSupport™ increase instrument up-time
- Continuous flow of up to 120 Paraform Cassettes per hour

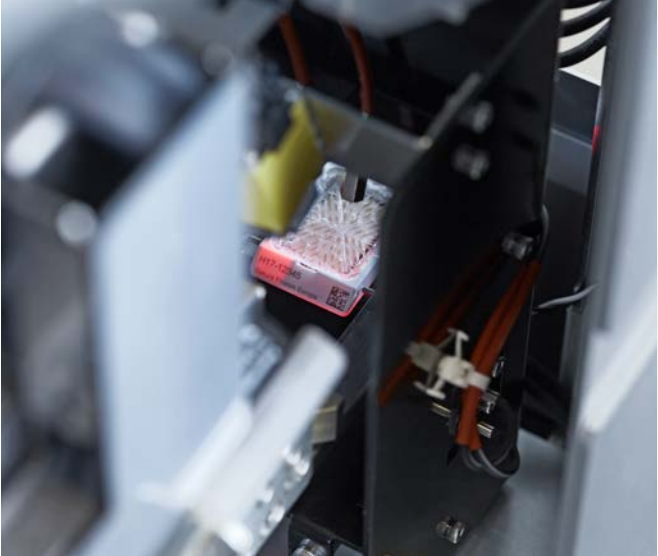




Paraform Cassettes

Paraform Cassettes are made out of special polymers optically similar to paraffin and are available in 6 types:

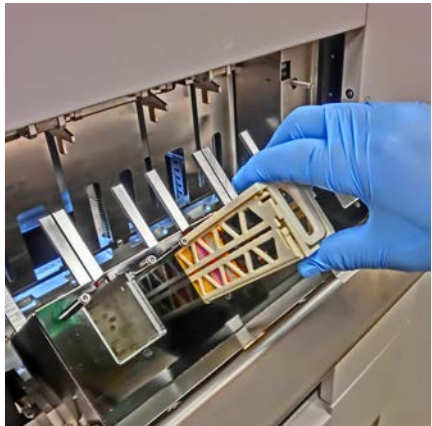
- Standard for large specimens like colon
- Biopsy for smaller or fragmented specimens like cornea
- Orientation for specimens requiring positioning on edge like large skins or gallbladder
- Biopsy, 13 x 13 mm, for tiny biopsies
- Shaved Biopsy for sectioned skin shaves
- Core Biopsy for needle biopsies like prostate or breast cores
- Frames are available in 12 colors



Barcode reader

Convenient track and trace of the Paraform Cassette is facilitated by an integrated solution for barcode recognition, enabling full connectivity with middleware and Laboratory Information Systems.

Dual lasers identify cassette types which directs the robot to place cassettes into the corresponding temperature-controlled base mold.



Input

Up to 4 magazines holding in total 80 cassettes can be loaded continuously into the AutoTEC a120 for fully automated embedding.

The input doors are pre-heated to melt residual paraffin from tissue processing.



Output doors

Blocks are placed into the output door in the same order cassettes were inserted into the corresponding magazines in the input door. 4 output doors holding in total 80 blocks can be used to conveniently transfer blocks to microtomy workstations.



Software

- 15-inch color touchscreen
- Operational information on the main screen
- Shows status of process
- Displays important alerts like when the paraffin reservoir is low



User convenience

The ergonomic location of the paraffin reservoir makes replenishing melted or paraffin pellets a breeze.

Paraform blocks can be easily sectioned. For additional convenience blocks can be precisely trimmed and sectioned automatically using a pre-set program on the Tissue-Tek AutoSection® Automated Microtome.



Block quality

The heated input door and the innovative SMARTair™ Technology removes excess paraffin from the frames and from the cassettes to produce high quality blocks. A precise amount of paraffin is dispensed to each cassette determined by the base mold type used. The result is uniform, clean blocks that can be mounted in microtome chucks without time-consuming and tedious scraping.



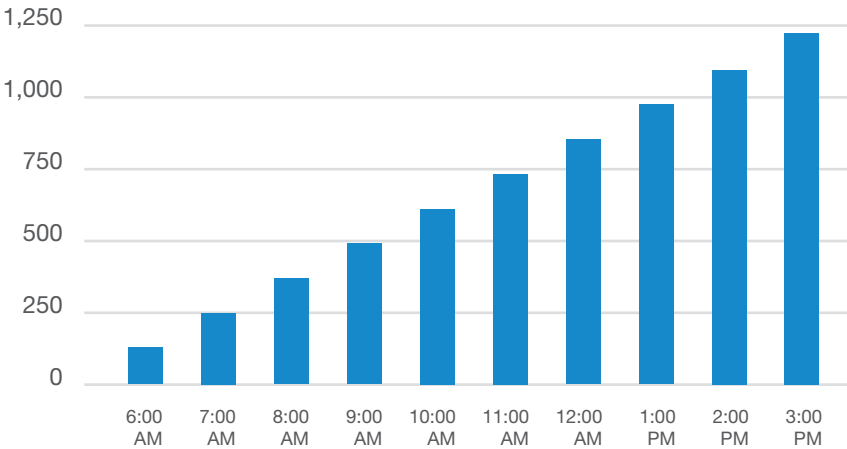
Specimen integrity

Re-embedding of specimens and loss of tissue are complications every laboratory would like to avoid. The Tissue-Tek Paraform Sectionable Cassette System, with its innovative design, secures and locks in tissue from grossing to microtomy, thus minimizing the risk of losing valuable specimens or their proper orientation.

Continuous flow and output of up to 120 Paraform Cassettes per hour

The AutoTEC a120 allows lab personnel to continuously load up to 120 Paraform Cassettes per hour, streamlining workflow and reducing embedding bottlenecks. When integrating the AutoTEC a120 into a workflow production system with the Tissue-Tek Xpress® x120 Rapid Tissue Processor, Lab Managers can reschedule tissue processing and embedding throughout the day to increase staff satisfaction by providing more family-friendly working hours (1).

Fig 1. Continuous flow and output of up to 120 Paraform Cassettes per hour



One integrated system

When used together, our SMART Automation Systems provide predictable performance and maximum productivity with the turnaround time needed for same day diagnosis.



Tissue-Tek® Paraform® Sectionable Cassette System

- Lock oriented tissues from grossing to microtomy
- Eliminates need to manually embed downstream
- Accommodates most tissue types



Tissue-Tek Xpress® x120 Rapid Tissue Processor

- 4 independent retorts
- Continuous output of up to 120 cassettes per hour
- Error-free reagent platform that is both formalin- and xylene-free



Tissue-Tek AutoTEC® a120 Automated Embedding System

- Continuous input of up to 4 cassette magazines
- Continuous output of up to 120 Paraform Cassettes per hour
- No scraping of cassettes



Tissue-Tek AutoSection® Automated Microtome

- Standardized sectioning protocols for all users and tissue types
- AutoAlign™ and AutoTrim™ technologies
- Programmable sectioning includes protocols for Paraform Cassettes



Specifications

Product name	Tissue-Tek AutoTEC® a120 Automated Embedding System
Product code	7090
Applications	Continuous automated embedding of human or animal tissue for routine and research histology
Rated voltage and current	Single phase, 200VAC ± 10%, 50/60 Hz, 12A Single phase, 230VAC ± 10%, 50/60 Hz, 11A (NEMA L6-20 dedicated receptacle)
Interface	USB Type A ports (2) LAN (2)
Dimensions	48 (W) x 30 (D) x 70 (H) inches 120 (W) x 75 (D) x 175 (H) cm
Weight	1,168 lbs (530 kg)
Throughput	Up to 120 Paraform Cassettes per hour
Operating conditions	Temperature: 59 to 86°F (15 to 30°C) Relative Humidity: 30-80%, non-condensing
Noise level	<65 dB
Certifications	UL61010-1 3rd: 2010, IEC 61010-1 3rd: 2010, IEC.61010-2-010: 2003, IEC.61010-2-101: 2002
Regulatory status	IVD, FDA Class I

Accessories

Product code	Product name and quantity
7093	Tissue-Tek AutoTEC® a120 20-Cassette Magazine; 6/case
7094	Tissue-Tek AutoTEC® a120 Cassette Magazine Retainer; 4/case
7095	Tissue-Tek AutoTEC® a120 Output Door; 2/case
7062	Tissue-Tek AutoTEC® a120 Paraffin Inner Tray #1
7063	Tissue-Tek AutoTEC® a120 Paraffin Inner Tray #2; 2/case
7007	Tissue-Tek AutoTEC® Magazine Handle; 6/case
7011	Uninterrupted Power Supply

Consumables

Product code	Product name and quantity
7052	Tissue-Tek® Paraform® Processing/Embedding Medium, Formula 3; 8 x 1 kg
7089	Tissue-Tek® Feather® Low Profile Microtome Blades; 500/case
7019	Tissue-Tek® Paraform® Biopsy Cassette, 13 x 13 mm; 500/case
7020	Tissue-Tek® Paraform® Biopsy Cassette; 500/case
7021	Tissue-Tek® Paraform® Standard Cassette; 500/case
7022	Tissue-Tek® Paraform® Orientation Cassette; 500/case
7023	Tissue-Tek® Paraform® Shaved Biopsy Cassette; 500/case
7024	Tissue-Tek® Paraform® Core Biopsy Cassette; 500/case
7030	Tissue-Tek® Paraform® Frames, Aqua; 500/case
7031	Tissue-Tek® Paraform® Frames, Blue; 500/case
7032	Tissue-Tek® Paraform® Frames, Gray; 500/case
7033	Tissue-Tek® Paraform® Frames, Gold; 500/case
7034	Tissue-Tek® Paraform® Frames, Green; 500/case
7035	Tissue-Tek® Paraform® Frames, Lilac; 500/case
7036	Tissue-Tek® Paraform® Frames, Orange; 500/case
7037	Tissue-Tek® Paraform® Frames, Pink; 500/case
7038	Tissue-Tek® Paraform® Frames, Red; 500/case
7039	Tissue-Tek® Paraform® Frames, Tan; 500/case
7040	Tissue-Tek® Paraform® Frames, White; 500/case



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

Sakura Finetek USA, Inc., 1750 West 214th Street
Torrance, CA 90501 U.S.A.

