# Tissue-Tek AutoTEC® *a120*
## Automated Embedding System

**Imagine...** fully automated embedding with the highest quality blocks



continuous innovation for pathology

SAKURA

# KEEP UP WITH THE GROWING NUMBER OF SAMPLES

**Tissue-Tek AutoTEC® *a120*, part of SMART Automation, is the second generation automated embedder to enhance laboratory performance. Maximise your laboratory's productivity, while reporting better turnaround times and consistent quality, using the same resources.**

For more than 125 years, Sakura Finetek products have been used in histopathology laboratories around the world.
To further support laboratories, Sakura offers the SMART Automation product line, aimed to maximise the productivity of a laboratory. SMART Automation is the logical next step to enhance laboratory performance.



Millions of patients around the world have benefited from better and faster diagnoses offered by the histopathology laboratories that have implemented SMART Automation. SMART Automation results in consistent high-quality operations. Automation and standardisation of routine processes eliminate errors and variations in end results, leading to consistent high-quality and reduction in rework.

The AutoTEC *a120* is the second-generation, fully automated tissue embedder that eliminates the labor intensive need to manually embed tissue specimens and form paraffin blocks. The AutoTEC technology, combined with the Paraform® Sectionable Cassette System, ensures that the orientation of specimens is locked from grossing to microtomy for all routine tissue types. This eliminates the risk of orientation mistakes and tissue loss and therefore increases patient safety.

**Tissue-Tek AutoTEC *a120* Automated Embedder & Paraform Sectionable Cassettes:**

• **Locked orientation throughout the process**

• **Predictable workflow and turnaround time**

• **Facilitating track & trace of specimen blocks**

• **Enhanced ergonomics**

**The AutoTEC *a120* is the only fully automated embedder that provides standardised performance in high block quality.**

**Using the unique Tissue-Tek® Paraform® Cassette System the orientation remains locked, for all routine tissue types, from grossing to microtomy, maximising any laboratory's productivity.**

**Together with the Tissue-Tek Xpress® *x*120 Continuous Rapid Tissue Processor, the AutoTEC *a120* will provide predictable high performance in turnaround time.**

The AutoTEC, the industry's first and only fully automated embedding system

## Automated embedding

The AutoTEC remains the industry's first and only fully automated embedding system.

By automating the embedding process, the produced blocks will be of the highest and most consistent quality. Due to this superb quality, there is no need for further cleaning or scraping of the blocks. The 15-inch touchscreen with intuitive and optimised Graphic User Interface offers simple operation and monitoring of the automated embedding process.

The 4 output doors of the AutoTEC *a120* provide continuous unloading of the blocks.

With fully automated embedding up to 120 cassettes per hour you enable a lean environment and optimised workflow within your laboratory.



Superb and consistent quality of all blocks, without the need of scraping or cleaning

Paraform Cassettes: Standard, Biopsy and Biopsy 13x13

## Locked orientation throughout the process

The unique Paraform Sectionable Cassette System; comprising frames, cassettes and orientation gels, protects your tissue sample and orientation is preserved from grossing through microtomy.
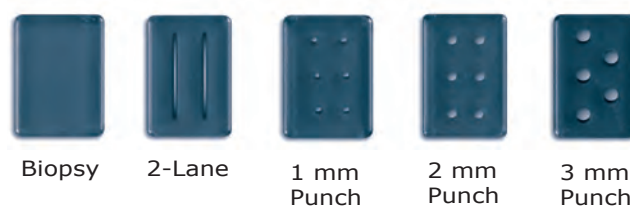
No more orientation mistakes, mix up or loss of tissue. A reduction of errors also leads to less rework, contributing to enhanced laboratory performance.

With a variety of 3 cassettes, the Paraform Sectionable Cassette System, in combination with the AutoTEC *a120,* ensures locked orientation from grossing to microtomy, suitable for all routine tissue types.
• Standard
• Biopsy
• Biopsy 13x13

Especially for the smallest biopsies, like needle cores, FNAB, skin shaves, skin punches, skin tips and GI biopsies, Sakura Finetek has developed different Paraform Tissue Orientation gels, eliminating the risk of losing this valuable tissue and securing the optimal orientation.
The Paraform Tissue Orientation Gel Insert needs to be placed in the Paraform Biopsy Cassette and is available in 5 different configurations.



| Biopsy | 2-Lane | 1 mm Punch | 2 mm Punch | 3 mm Punch |

Paraform Tissue Orientation Gels eliminate the risk of losing tissue and secure the right orientation of even the smallest biopsies

Easy unloading with the 4 output doors

## New and enhanced features

Building upon 7 years of field experience in automated embedding, customer feedback, Japanese engineering ingenuity and quality manufacturing, the AutoTEC *a120* is designed for easy daily operations, enhanced ergonomics and minimal maintenance, while providing unmatched user convenience.

New features have been integrated, such as the cassette barcode reader for future LIS connectivity and traceability of specimen blocks and the SMARTair™, an advanced air-blowing technology, to optimize block quality.

The large 15 inch high definition touchscreen displays all information in one overview and the enhanced operating system delivers unmatched user convenience and provides easy and fast operating.

The output doors of the AutoTEC *a120* provide continuous unloading of the blocks. By automating the embedding process, all blocks are flawless and do not need any additional scraping.
The paraffin container is in the front, resulting in easy paraffin replenishing.

Redesign of the input and output doors, the paraffin reservoir and access to the base molds provides improved ergonomics while requiring minimal user maintenance and further increasing up-time.


Large 15-inch touchscreen monitor

Tissue-Tek Xpress *x*120 Continuous Rapid Tissue Processor & Tissue-Tek AutoTEC *a120* Automated Embedder

## Maximized productivity

Answering to the increasing demand for standardised and consistent high quality block production, Sakura Finetek created the second generation automated embedder, the AutoTEC *a120.*

When used in conjunction with the Tissue-Tek Xpress *x*120 Continuous Rapid Tissue Processor, the AutoTEC *a120* creates a gentle workflow of a maximum of 40 cassettes available for microtomy every 20 minutes. No more waiting, but immediate loading. Create an even flow of samples through the day and maximize laboratory productivity becomes reality. These SMART Automation systems provide high quality and safe tissue processing, consistent clean blocks and most important: one day diagnosis.

Creating a lean workflow, automation and standardisation will allow histotechs to allocate their time to value adding activities, in this era of growing demand for special techniques. SMART laboratories are providing a better and faster service to even more patients by streamlining their processes and maximising productivity.



Easy and continuous loading of the AutoTEC *a120*

# SPECIFICATIONS

| | | | |
|---|---|---|---|
| **Throughput** | Up to 120 Paraform Cassettes per hour | **Capacity** | |
| **Process capacity** | Continuous loading of up to 4 magazines of 20 cassettes | Loading | 120 Paraform Cassettes, continuously loading |
| **Dimensions** | | Unloading | 120 Paraform Cassettes, continuously unloading |
| W X D X H | 120 x 75 x 175 cm | Paraffin wax | Up to 5,0 L |
| **Weight** | 530 kg | | |

**Base Molds**

(Paraform)  8 Standard Cassettes
8 Biopsy Cassettes
8 13x13 Biopsy Cassettes

# PRODUCT ITEMS

| Item code | Description |
|---|---|
| 7090 | Tissue-Tek AutoTEC® *a120* Automated Embedder, 230v, 50/60 Hz |
| 7093 | Tissue-Tek AutoTEC® *a120* 20-Cassette Magazine |
| 7094 | Tissue-Tek AutoTEC® *a120* Cassette Magazine Retainer |
| 7095 | Tissue-Tek AutoTEC® *a120* Output Door |
| 7062 | Tissue-Tek AutoTEC® *a120* Paraffin Inner Tray #1 |
| 7063 | Tissue-Tek AutoTEC® *a120* Paraffin Inner Tray #2 |
| 7052 | Tissue-Tek® Paraform® Processing/Embedding Medium; 8x1 kg |

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