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

SAKURA

Tissue-Tek® AutoTEC®*a120* & Paraform®

Automated Embedding System

KEEP UP WITH THE GROWING NUMBER OF SAMPLES

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

Automation and standardisation resulting in maximized

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 maximize 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**

productivity and reduction of human errors

The AutoTEC® *a120* is the only fully automated embedder that provides
standardised performance in high block quality.
Using the unique Paraform® Cassette System the orientation remains
locked, for all routine tissue types, from grossing to microtomy, maximizing
any laboratory's productivity.

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

The Paraform® Sectionable Cassette system comes in 3 specialised types

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 optimized 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.

Full automation

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

Paraform® Cassettes: Standard, Biopsy and Biopsy 13x13

No more orientation mistakes

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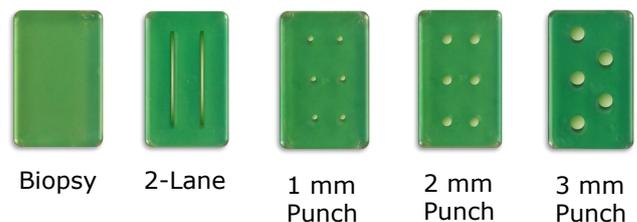
With a variety of 3 cassettes, the Paraform® Sectionable Cassette System, in combination with the AutoTEC® *a120,* ensures locked orientation from grossing to microtomy, suitable for all routine tissue types.
• Standard
• Biopsy
• Biopsy 13x13

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 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.

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.

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.

Improved ergonomics

Large 15-inch touchscreen monitor

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

Maximized productivity

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 maximizing productivity.

Easy and continous 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

SMART AUTOMATION
powered by sakura

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

CONTINUOUS INNOVATION FOR PATHOLOGY

SAKURA