



**MILESTONE**  
H E L P I N G  
P A T I E N T S



**Skip the manual embedding step**



**Synergy**

Rapid Tissue Processing and  
Auto-embedding All-in-one

# EASIER WORKFLOW AND SHORTER TURNAROUND

## | THE CONVENTIONAL EMBEDDING PROCEDURE

Embedding represents one of the most critical bottlenecks in the histology workflow. This time-consuming procedure is carried out manually after the tissue processing step. The technician embeds surgical specimens and biopsies one by one, ensuring the correct positioning which is often a cumbersome task. This procedure requires experienced technicians with good manual skills, to obtain optimal conditions for the cutting step.

## | THE INNOVATIVE SYNERGY TECHNOLOGY

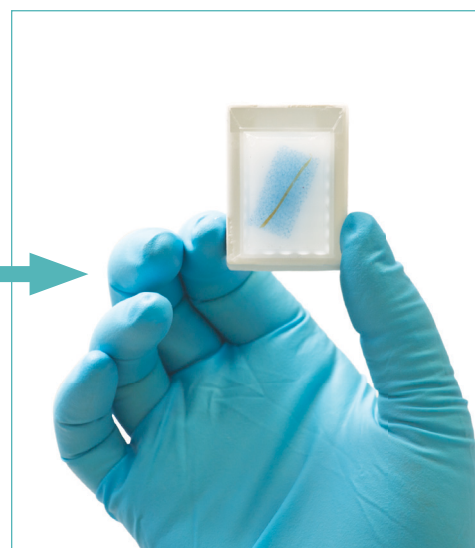
Synergy technology is a patented, innovative method to automatically embed tissues as part of the processing protocols. It eliminates the need to reopen the cassettes and reorient the tissues, as necessary with manual embedding. The dedicated rack and consumables in combination with Milestone tissue processor allow automatic embedding of up to 45 cassettes, regardless of the type of tissues and their dimensions.

The Synergy technology system is composed of a specially designed rack, dedicated molds and pads. The sponges used for the pads ensure the correct flat positioning of the specimens and easier cutting at the microtome stage. Synergy completely removes the tedious and time-consuming manual steps through a single tissue processing and embedding protocol.

## | SIMPLE AND FAST



*From placing the specimen in the mold...*



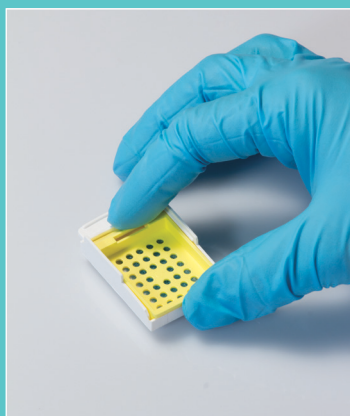
*...to the embedded tissue  
in a fraction of conventional TAT!*

## I THE 3 EASY STEPS OF THE SYNERGY CASSETTE ASSEMBLY



1

Place the specimen in the plastic mold and cover it with the special sponge pad.



2

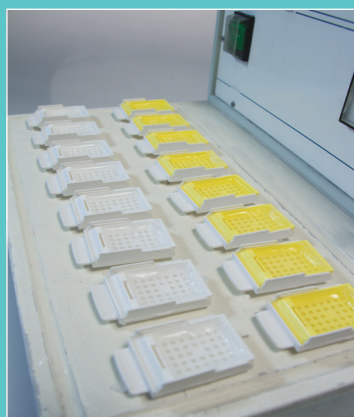
Clip the standard cassette as a cover of the mold.



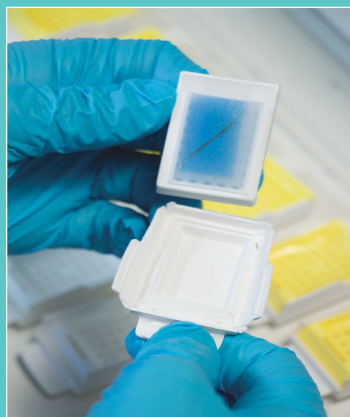
3

Place the assembled mold in the Synergy rack slot. Load the rack in the Milestone tissue processor.

## I FROM AUTO-EMBEDDING TO THE CUTTING STEP



At the end of the automatic tissue processing and embedding steps, slide out the cassettes from the rack and place them on a cold plate.



The easy opening of the mold enables a quick release of the specimen for cutting.



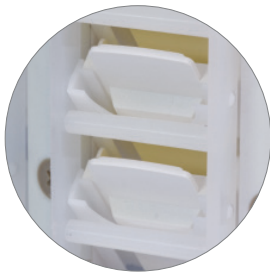
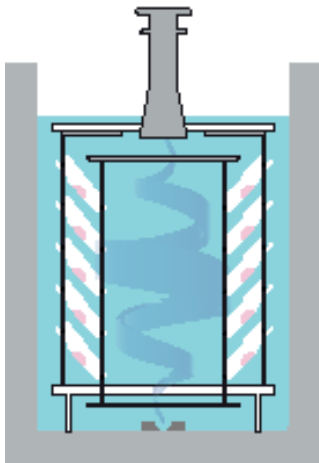
With the Synergy method, trimming time is reduced. No need to modify the standard cutting procedure of the microtome.

## | HOW THE SYNERGY TECHNOLOGY WORKS

The innovative Synergy technology allows to perform simultaneously processing plus embedding. The unique design of the rack enables to move the mold+cassette to two positions: one for the tissue processing and one for the embedding step. Through a leverage system, the ring placed at the bottom of the processor retort moves the mold+cassette from angled for the processing step (1), to horizontal for the embedding step (2).

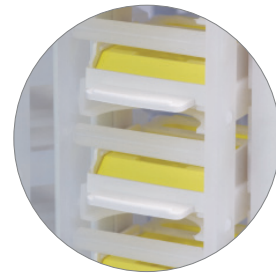
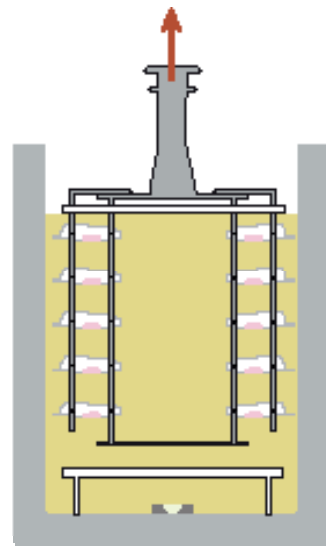
### 1. Angled position

During the fixation and through all other reagent steps, the molds in the rack are placed at an angled position. This allows free circulation of reagents, the fluids can flow in and out without retention.



### 2. Horizontal position

At the end of wax impregnation (as soon as the rack is lifted) the molds are placed horizontal to collect the required paraffin amount and to automatically embed the tissue.



**INCLUDE EMBEDDING  
IN YOUR TISSUE  
PROCESSING STEP**





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**OPTIMIZATION OF LABORATORY WORKFLOW**

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**SIMULTANEOUS AUTOMATIC PROCESSING + EMBEDDING**

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**SKIPPING THE MANUAL EMBEDDING STEP**

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**REDUCED TURNAROUND TIME**

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**OPTIMAL FLAT POSITIONING OF SPECIMENS**

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## COMPATIBLE UNITS

The Synergy technology for processing plus autoembedding in one step fits all Milestone's rapid tissue processors.



### MAGNUS

Lean High-Throughput  
Tissue Processor



### LOGOS

The First All-In-One  
Hybrid Tissue Processor



### LOGOS One

Fully Automated  
Innovative Tissue  
Processor



### PATHOS DELTA

A Fully Automatic  
System to Fit Your  
Workflow

## THE SYNERGY PACKAGE

- » Synergy Rack
- » Synergy dedicated consumables:
  - 1360 Molds (standard size 2x3cm and biopsy size 1,5x1,5cm)
  - 1400 Pads
  - Synergy Wax (*optional*)



# MILESTONE HELPING PATIENTS

Milestone is a company headquartered in Northern Italy and was founded in 1988 as a corporation specializing in advanced microwave instrumentation for analytical and organic chemistry labs. As the technology leader in pre-analytical instrumentation, Milestone supports a worldwide installed base of over 25.000 systems. In 1994, Milestone established a separate Medical Division to expand our expertise in the crucial pre-analytical phase to the world of histopathology. We pioneered the first microwave rapid tissue processor for same day diagnosis and the first macro-digital system to enhance the grossing step. Today, our rapid tissue processors, macro-digital imaging systems, and pre-analytical instrumentation are used every day in the most renowned clinical and research laboratories around the world. But we never stop. We continue to lead the industry with constant innovation and improvement. Driven by the leading principle we live by, Helping patients.

MILESTONE



HELPING  
PATIENTS



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