



**MILESTONE**

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

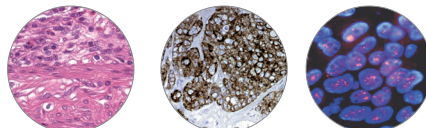


# **LOGOS J**

## The right tool for the lean lab

The first “personal” hybrid tissue processor

Quality. Speed. Flexibility. Automation.



**The processor that did not exist.  
But was needed.  
Milestone has matched the unarticulated  
needs of users with technological  
possibilities that open new doors.**



**LOGOS J as...**

**The LOGOS J is the result  
of a philosophy that sets  
a new standard in the field  
of tissue processing.**

... a dedicated rapid tissue processor for stat, urgent or transplant biopsies, for results within 50-60 minutes.

... a rapid, flexible, tissue processor for biopsies (up to 3mm) to level-out the work load in the lab.

... an optimized conventional resistance heated processor for HER-2, ER, PgR according to ASCO and CAP guidelines.

... a dedicated, optimized rapid tissue processor for specific specimens: prostate, skin, gastric, ...

... a fully automated bone marrow processor for turn around time in less than 24 hours.

... your application

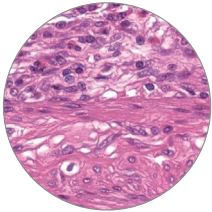


# The challenge: improving the workflow of the laboratory.

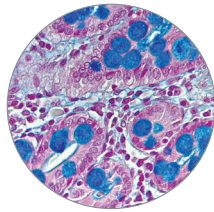
In today's histology labs, the workload consists approximately of 35-50% small biopsies (below 3 mm) and 40-50% surgical specimens. Transplant, stat and urgent biopsies that require a rapid turnaround time are a minority of the total workload. This small number of biopsies interferes with the routine workflow of the laboratory. Large capacity conventional tissue processors do not fulfill the requirements for the speed and flexibility needed to effectively improve the workflow of a laboratory or address these specific workflow streams.

## ✓ Unmatched quality

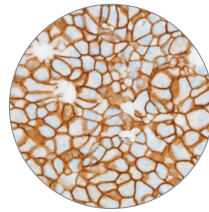
LOGOS J processes biopsies with specific optimized protocols to consistently assure the highest standard of quality.



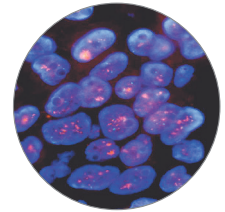
Colonic biopsy, microwave processed H&E (x 400)



Bowel biopsy, microwave processed. Alcian blue microwave staining (x 400)



Breast cells HER2 amplification detection by IHC. Hematoxylin counterstain (x 400)



Breast cells HER2 amplification detection by FISH processed by microwaves (x 800).

## ✓ Unmatched processing times

Faster than conventional processing

Specimen thickness	Rapid protocols. Fully automated	Improved workflow with sequential processing in continuous batch mode
Transplant (less than 1mm)	Full batch processed in 36 minutes (including fixation)	Batch loading every 21 minutes
1 mm (i.e. GI/Endoscopic biopsies)	Full batch processed in 1 h 16 minutes (including fixation)	Batch loading every 51 minutes
3 mm	Full batch processed in 3 h 28 minutes (including fixation)	Batch loading every 2 hours 13 minutes

Note: The above timing are referred to ethanol/isopropanol protocols, excluding reagent movement.

## ✓ Unmatched processing flexibility

From 1 up to 48 cassettes



The LOGOS J rack consists of 48 cassettes to allow the flexibility to fit any workload requirements.  
(Optional: 2 segments of 21 cassettes each)

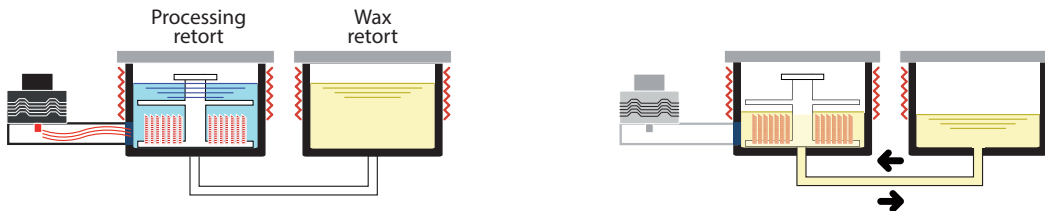
# LOGOS J . The right tool for the “lean” lab.

Implementation of the “lean” lab requires optimized dedicated instrumentation. The LOGOS J fulfills this requirement and addresses the unmet need for a benchtop, compact, flexible load, rapid tissue processor. This new tool incorporates an innovative solution to solve workflow problems in histology laboratories.



## Day Operation (1). Urgent specimens.

As a fully automated, single retort, **rapid hybrid tissue processor**

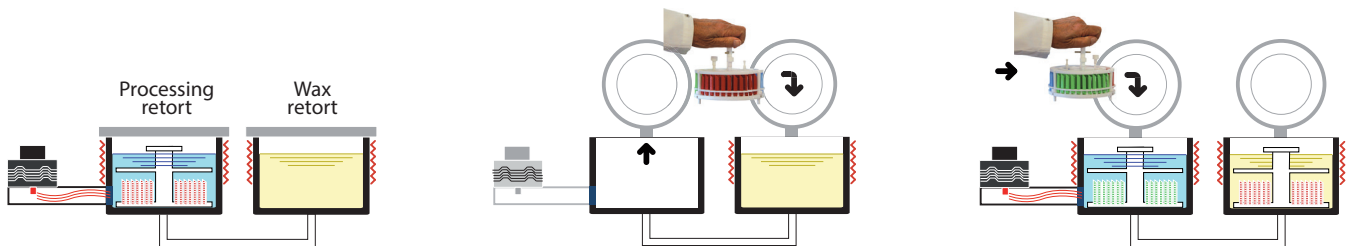


During the day the histotech will start dedicated single batch runs with short cleaning cycles. LOGOS J will run urgent biopsies with hybrid microwave technology as a fully automated unit. Molten wax will be transferred automatically to and from the processing retort for impregnation.



## Day Operation (2). Higher throughput.

As a sequential, dual retort, **simultaneous batch hybrid tissue processor**

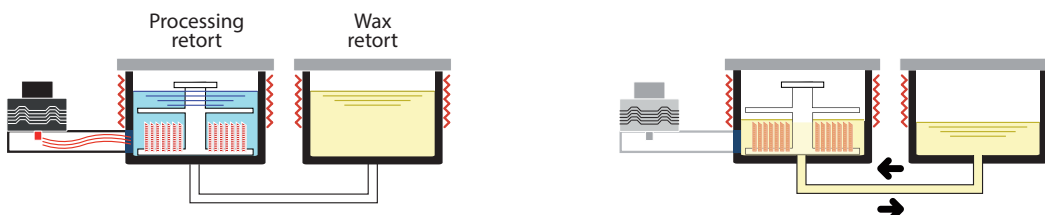


- 1 The first rack is processed in the fixation/dehydration/clearing processing retort
- 2 At the end of the cycle, the rack is manually transferred to the wax retort
- 3 A new rack is placed in the processing retort. The two racks are simultaneously processed.



## Night Operation.

Fully automated, bone marrow processor for a diagnosis in less than 24 hours



During the night, or if required during the day, LOGOS J will process bone marrow specimens through the fixation, decalcification, dehydration clearing and impregnation steps in a fully automated mode. The specimens will be ready for cutting, embedding and staining to allow rapid diagnosis in less than 24-hour.



# LOGOS J. Software like never before.

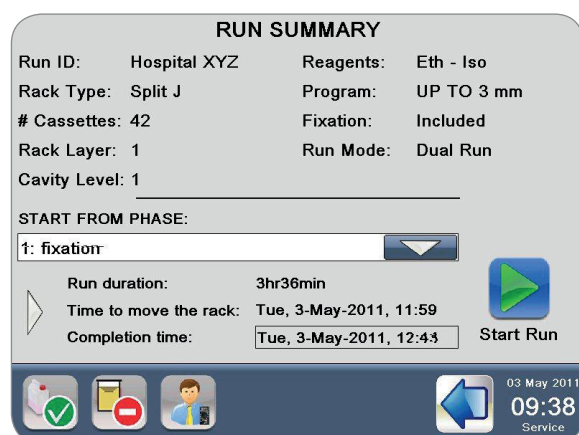
## We could not make it more intuitive.



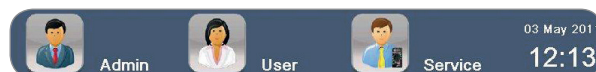
Intuitive touch display.



2 Icon-driven. User friendly.



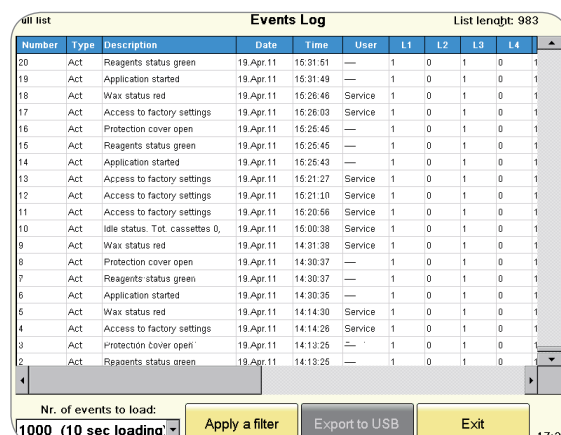
4 The complete summary of the new protocol is displayed for approval or modification before starting the process.



1 Enter the appropriate user level. The administrator can modify programs or store new ones. The operator can recall and run existing processing protocols.



3 Administrator can easily setup a new protocol by selecting through the multiple choices available for each step.



5 An events log lists all activities carried out with the unit for documentation, service and quality assurance purposes.

# LOGOS J. Green, safe and economical. Packed with the latest technology for an improved work environment.



Up to 10 quick disconnect 2 l reagent tanks

Heated, PTFE coated, internal surface to avoid condensation of reagents for consistent processing. Enhanced operator safety by elimination of vapors

Touch-screen, icon-driven control terminal

Microwave retort

Wax retort

Easy, safe transfer of exhausted wax through heated PTFE connector



Open system.  
No proprietary reagents commitments.  
Use of histology grade wax.

## Milestone world market leadership

- ✓ Largest installed base of microwave tissue processors
- ✓ Over 1,600 units in operation worldwide
- ✓ The “de facto” standard in rapid processing
- ✓ Lowest cost of ownership
- ✓ The highest quality of application and service support



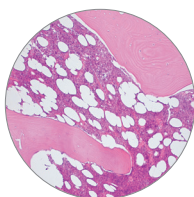
## Fully automated bone marrow processing for a diagnosis in less than 24-hours.



Hours, not days!



For the first time fully automated fixation (formalin), decalcification (formic acid, EDTA), dehydration, clearing and impregnation of bone marrow samples can be carried out in less than 24 hours.



Bone marrow, EDTA, H&E x 100



Total processing time (fixation to impregnation) for bone marrow specimens of 1.8 mm diameter (11 gauge)

Decalcifier	Temperature	Time
Formic acid 10%	37°C	4h 11'
Formic acid 10%	50°C	3h 16'
EDTA 10%	37°C	20h 41'
EDTA 10%	50°C	5h 46'

*Note: The above timing are referred to ethanol/isopropanol protocols, excluding reagent movement.*

**MILESTONE**



HELPING  
PATIENTS

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**UNI EN ISO 9001: 2008 / UNI EN ISO 13485:2012 CERTIFIED**

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