



LOGOS

The first all-in-one hybrid tissue processor

- Rapid, fully automated single retort
- Rapid, simultaneous dual retort
- Conventional

The ideal tool for the "lean" lab







Lean lab? Think LOGOS.

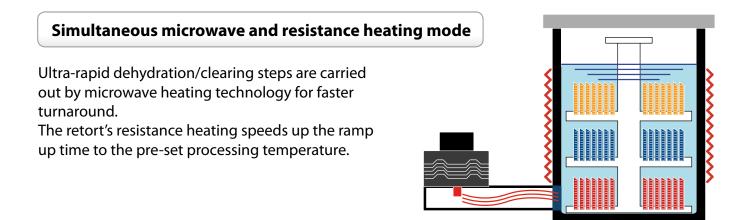
Addressing the needs of "lean" labs for a flexible tissue processor. Highly adaptable to customized workflow streams.

- √ Fully automated processing in overnight and rapid mode
- √ Parallel processing in continuous flexible-size batch mode
- \checkmark Up to 140 cassettes with 1 gallon standard reagent containers
- Up to 210 cassettes with 5 liter reagent jars
- √ Any type of tissue, up to 6 mm thickness

LOGOS

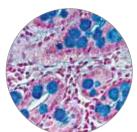
The all-in-one tissue processor with the exclusive Milestone patented* microwave hybrid processing technology.

Resistance heating mode The LOGOS can operate as a conventional resistance heated overnight tissue processor. Its processing parameters can be set to fit your specific workflow requirements. The LOGOS fulfills all CAP/ASCO guidelines for assessing Her-2, ER, PgR testing in breast tissues.



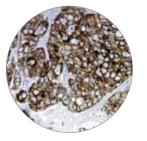
^{*}European Patent EP 1605243 - U.S. Patent 7,075,045

Consistent high quality slides with Milestone processing

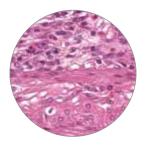


Bowel biopsy. Alcian blue microwave staining of mucin producing cells (x 400)





Adenocarcinoma. Immunostaining of Cytokeratin CAM5.2. Microwave processed (x 400)

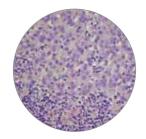


Colonic biopsy, microwave processed. H&E (x 400)

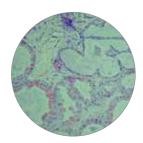


Breast biopsy microwave processed H&E (x 50)

Superior processing of fatty tissues (i.e. breast)



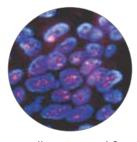
Metastatic breast cancer in lymph node, microwave processed H&E (x 400)



Benign breast tissues, microwave processed. Note the excellent morphological preservation H&E (x 200)



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



Breast cells HER2 amplification detection by FISH processed by microwaves. Red-labeled HER2 probe (x 800)

With the LOGOS everyone benefits



Patient

- Minimize stress of waiting for diagnosis
- Elimination of needless anguish
- More timely start of needed treatment



Grossing Room
Operator

- No need to modify your grossing procedures
- No need to standardize on 1.5/2.5 mm



Pathologist

- Reduce stress through better control of workload
- Same-day diagnosis of permanent slides available on demand



Histologist

- Process as required:70-140-210 cassettes
- Process with no transfer of reagents from commercial containers.
 Four conventional reagents only



Lab Manager

- Improved workflow with night and day protocols
- Improved work environment
- Reduced cost



Oncologist and Clinician

 Within hours oncologists and clinicians can advise patients on the basis of the definitive diagnosis

MilesNET. Remote diagnostic system

An advanced system of remote assistance through a standard internet connection. It dramatically reduces downtime increasing the efficiency of your laboratory. MilesNET allows Milestone's service department to:

- Verify the function of the entire unit and each sensor or device
- Install software upgrades
- Run a fast diagnosis of problems
- Schedule the appropriate preventive maintenance
- Collect all data. "No Guessing".

MilesNET minimizes:

- LOGOS downtime
- Time to repair
- Diagnostic time on phone
- Recovery time



Unmatched processing times

Six times faster than conventional processing enabling same-day diagnosis



Specimen thickness	Rapid protocols. Fully automated	Improved workflow with sequential processing in continuous batch mode
Transplant (less than 1mmø)	Full batch* processed in 49 minutes (including fixation)	Batch* loading every 32 minutes
1 mm (i.e. GI/Endoscopic byopsies)	Full batch* processed in 1 h 30 minutes (including fixation)	Batch* loading every 1 h 6 minutes
3 mm	Full batch* processed in 3 h 5 minutes (including fixation)	Batch* loading every 2 hours
5 mm	Full batch* processed in 5 h 56 minutes (including fixation)	Batch* loading every 3 hours 36 minutes

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

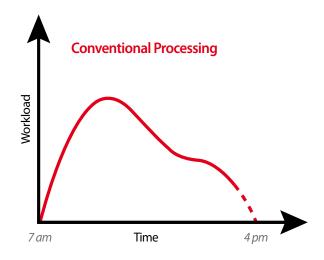
LOGOS. Less stressful workload distribution

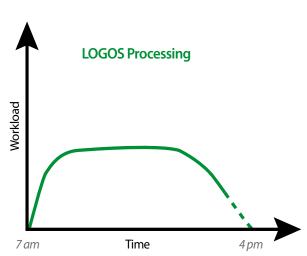
Throughout the day the histotech can process urgent and small biopsies, on demand.

These samples/biopsies, which can constitute 40-60% of the workload of a histopathology lab, are rapidly processed.

The short processing time allows embedding, cutting and staining of specimens so that slides are available to the pathologist on the same day.

The remaining cassettes can be automatically processed during the night, either by conventional or rapid hybrid heating technology.





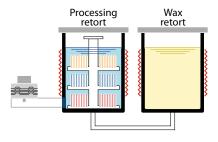
^{*} Up to 140 cassettes with 1 gallon containers and up to 210 cassettes with 5 liter reagent jars

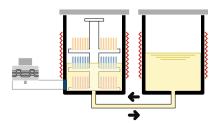
LOGOS. Innovative workflow options for the "lean" lab



Night Operation

As a fully automated, single retort, overnight tissue processor



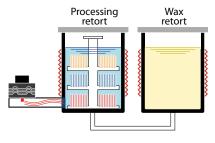


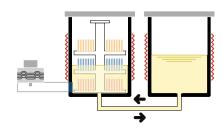
During the night, LOGOS can run protocols as an advanced resistance heated conventional processor. Molten wax is transferred automatically to and from the processing retort for the impregnation step. Xylene-free protocols with four reagents only: formalin, ethanol, isopropanol and wax. If required, xylene protocols are available. As an alternative, run LOGOS as a rapid tissue processor (delayed start) with desired completion time set by user, allowing additional fixation time if needed.



Day Operation (1)

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



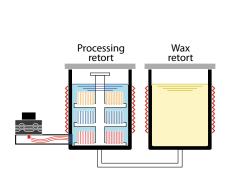


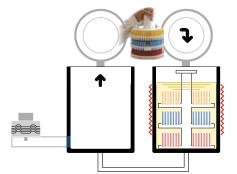
During the day, LOGOS can run urgent biopsies with hybrid microwave technology as a fully automated unit. Molten wax is transferred automatically to and from the processing retort for the impregnation step. This mode enables single batch runs with short cleaning cycles.

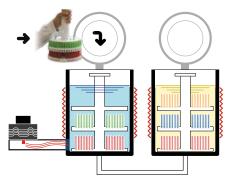


Day Operation (2)

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







1 The first rack undergoes fixation/dehydration/clearing in the processing retort.

2 At the end of the processing cycle, the rack is manually transferred to the wax retort.

A new rack is placed in the processing retort. The two racks are simultaneously processed. One in the reagent step and one in the wax step for higher throughput.

LOGOS. Software like never before. We could not make it more intuitive



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



2 The administrator can easily setup a new protocol by selecting the desired settings from the touchscreen interface.



Intuitive touch display. Icon-driven, user friendly.



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



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

LOGOS. Green, safe and economical

Packed with the latest technology for an improved work environment

"Soft-close" cover for enhanced safety

Heated PTFE coated internal surface to avoid condensation of reagents for consistent processing and enhanced operator safety

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



Swing-up control panel cover for easy access to condensation traps

Easy, safe transfer of exhausted wax through heated PTFE connector

No transfer of reagents to tanks



Direct transfer of solutions from commercial containers (5 l or 1 US gal) into processing retort.
Slide-out ventilated reagent drawer.

1 US gal jars



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





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