



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

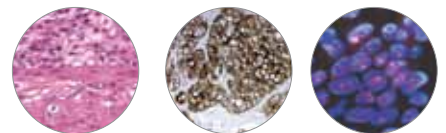


LOGOS

The first all-in-one hybrid tissue processor

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

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.

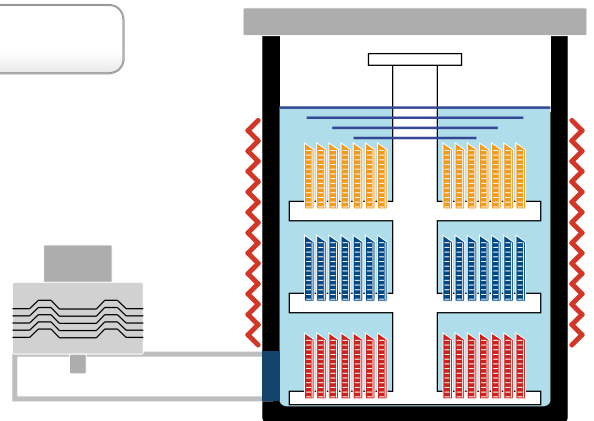
- ✓ Fully automated processing in overnight and rapid mode
- ✓ Parallel processing in continuous flexible-size batch mode
- ✓ Up to 140 cassettes with 1 gallon reagent jars
- ✓ Up to 210 cassettes with 5 liter reagent jars
- ✓ Any kind of tissue, up to 6 mm thickness

LOGOS

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

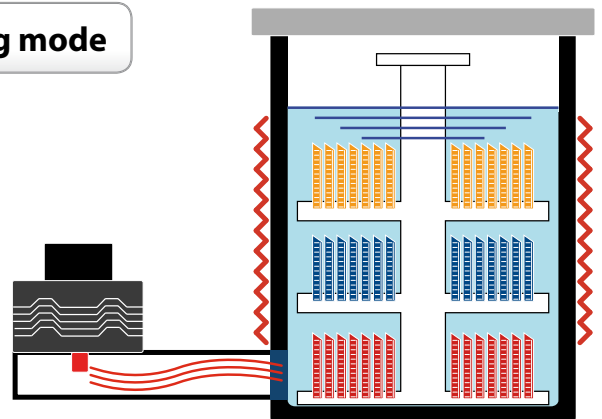
Resistance heating mode

The LOGOS will 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.



Simultaneous microwave and resistance heating mode

Ultrarapid dehydration/clearing steps are carried out by microwave heating technology for faster turn-around. The retort's resistance heating speeds up the ramping time to the pre-set processing temperature.



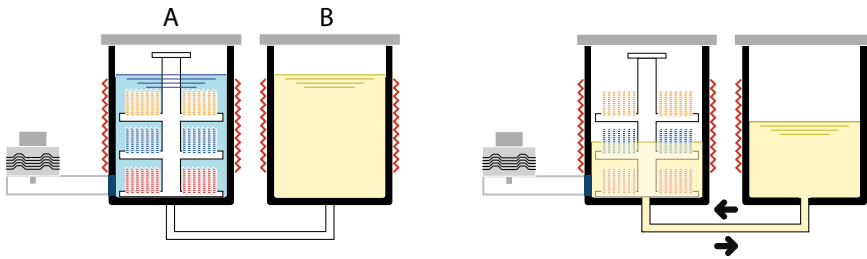
*European Patent EP 1605243 - U.S. Patent 7,075,045

LOGOS. Innovative workflow options for the “lean” lab



Night Operation

As a fully automated, single retort, **overnight conventional tissue processor**

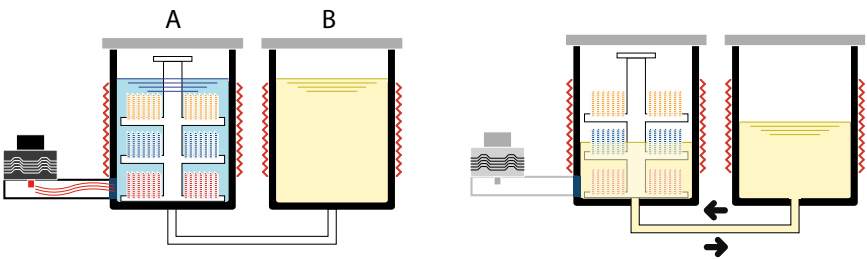


During the night, LOGOS can run protocols as an advanced resistance heated conventional unit. Molten wax is transferred automatically to and from retort A for impregnation step. Xylene-free protocols with four reagents only: formalin, ethanol, isopropanol and wax. If required, xylene protocols are available.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



Day Operation (1)

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

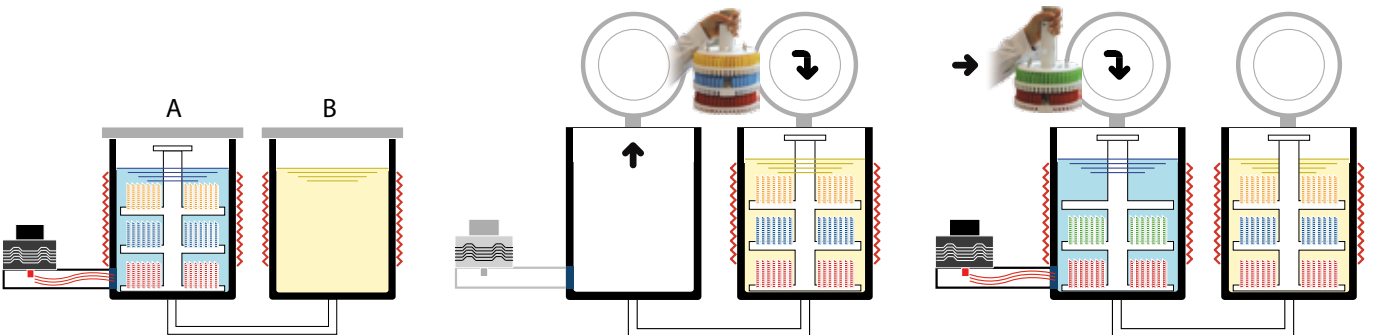


During the day, LOGOS can run urgent biopsies with hybrid microwave technology as a fully automated unit. Molten wax is transferred automatically to and from retort A for impregnation. Dedicated single batch runs with short cleaning cycles.



Day Operation (2)

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

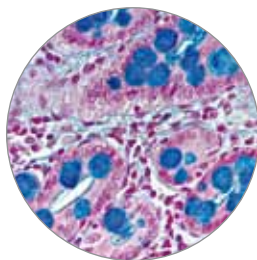


1 The first rack is processed in the dehydration/clearing retort A

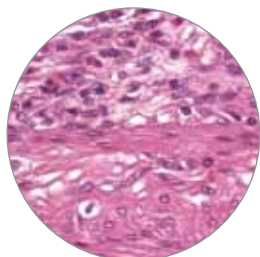
2 At the end of the cycle, the rack is manually transferred to the wax retort B

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

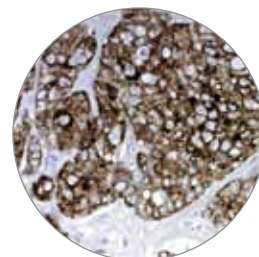
Consistent high quality slides with Milestone processing



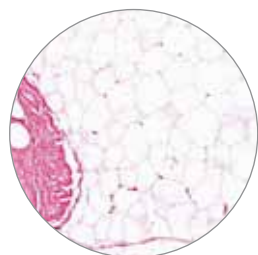
Bowel biopsy, microwave processed in 90 minutes. Alcian blue microwave staining of mucin producing cells (x 400)



Colonic biopsy, microwave processed in 30 minutes H&E (x 400)

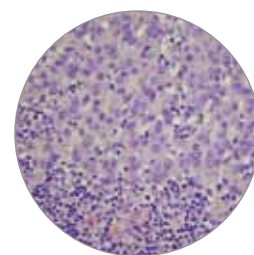


Adenocarcinoma. Immunostaining of Cytokeratin CAM5.2. Microwave processed (x 400)

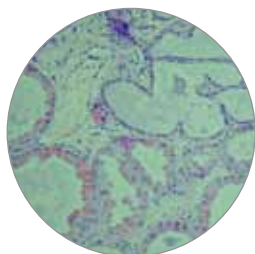


Breast biopsy microwave processed H&E (x 50)

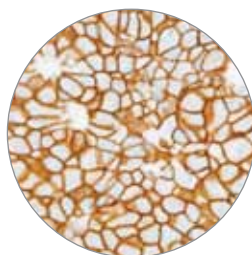
Superior processing of fatty tissues (i.e. breast).



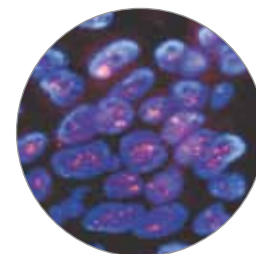
Metastatic breast tumor in lymphnode, microwave processed H&E (x 400)



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)

Unmatched processing times

Six times faster than conventional processing enabling same-day diagnosis



Specimen thickness	Workflow with rapid protocols. Fully automated	Improved workflow with parallel processing in continuous batch mode
1 mm	Full batch* every 1 h 15 minutes (including fixation)	Full batch* every 40 minutes
3 mm	Full batch* every 3 h 17 minutes (including fixation)	Full batch* every 2 hours
5 mm	Full batch* every 5 h 50 minutes (including fixation)	Full batch* every 3 hours 40 minutes

* Up to 140 cassettes with 1 gallon and up to 210 cassettes with 5 liters reagent jars

With LOGOS benefits for all



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 jars. 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 base of definitive diagnosis

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
- ✓ Highest quality of application and service



LOGOS. Green, safe and economical

Packed with the latest technology for 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

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



Easy, safe transfer of exhausted wax through heated PTFE connector

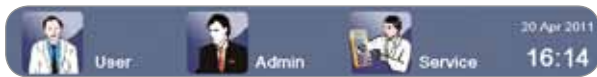
**Open system.
No proprietary reagents commitments.
Use of histology grade wax.**



No transfer of reagents to tanks

Slide-out ventilated reagent drawer. Direct transfer of solutions in processing retort from commercial jars (5 lt or 1 gal)

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 through on the touchscreen keyboard the multiple choices available to him for each step.

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



Intuitive touch display. Icon-driven, user friendly

Number	Type	Description	Date	Time	User	L1	L2	L3	L4
108	Act	Wax status red	20 Apr 11	16:22:27	Service	1	0	0	0
109	Act	Protection cover open	20 Apr 11	16:22:27	---	1	0	0	0
104	Act	Reagents status green	20 Apr 11	16:21:27	---	1	0	0	0
103	Act	Application started	20 Apr 11	16:21:25	---	1	0	0	0
102	Act	Wax status red	20 Apr 11	16:17:52	Service	1	0	0	0
101	Act	Protection cover open	20 Apr 11	16:16:32	---	1	0	0	0
100	Act	Reagents status green	20 Apr 11	16:16:32	---	1	0	0	0
099	Act	Application started	20 Apr 11	16:16:30	---	1	0	0	0
098	Act	Wax status red	20 Apr 11	16:16:30	Service	1	0	0	0
097	Act	Protection cover open	20 Apr 11	16:04:55	---	1	0	0	0
096	Act	Reagents status green	20 Apr 11	16:04:55	---	1	0	0	0
095	Act	Application started	20 Apr 11	16:04:55	---	1	0	0	0
094	Act	Wax status red	20 Apr 11	16:01:58	Service	1	0	0	0
093	Act	Protection cover open	20 Apr 11	16:02:58	---	1	0	0	0
092	Act	Reagents status green	20 Apr 11	16:02:58	---	1	0	0	0
091	Act	Application started	20 Apr 11	16:02:58	---	1	0	0	0
090	Act	Wax status red	20 Apr 11	16:02:58	Service	1	0	0	0
079	Act	Protection cover open	20 Apr 11	16:38:36	---	1	0	0	0
078	Act	Reagents status green	20 Apr 11	16:38:36	---	1	0	0	0

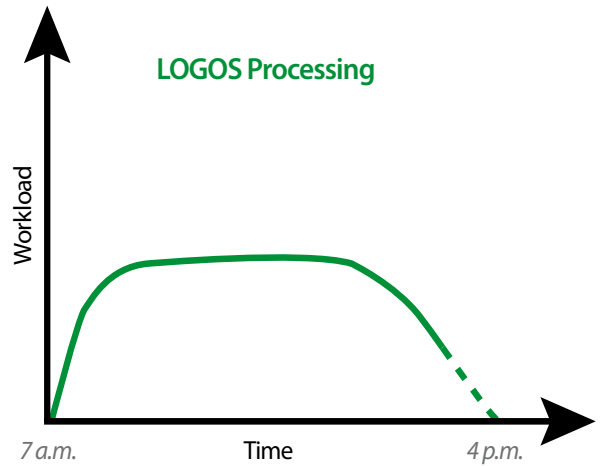
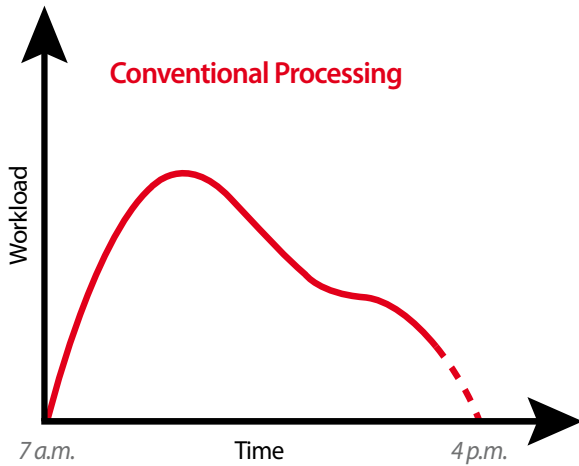
- 4 An events log lists all activities carried out with the unit for documentation, service and quality assurance purposes.

LOGOS. Less stressful workload distribution

During the morning the histotech can process on-demand the urgent and all the small biopsies. These biopsies, which constitute 30-40% of the workload of an histopathology lab, are rapidly processed in 1 hour 15 minutes to 3 hours.

These short processing times allow embedding, cutting and staining of specimens so that slides are available to the pathologist in the afternoon of the same day.

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



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



MILESTONE



HELPING PATIENTS

MILESTONE Srl - Via Fatebenefratelli, 1/5 - 24010 Sorisole (BG) - Italy
Tel: +39 035 4128264 - Fax: +39 035 575498
www.milestonemedsrl.com - email: medical@milestonesrl.com

UNI EN ISO 9001: 2008 CERTIFIED

MILESTONE MEDICAL TECHNOLOGIES, INC.
6475 Technology Avenue, Suite F, Kalamazoo, MI 49009 - USA
Tel: 269-488-4950 - Toll-free: 866-995-5300 - Fax: 269-488-4949
www.milestonemed.com - email: info@milestonemed.com

In your country: