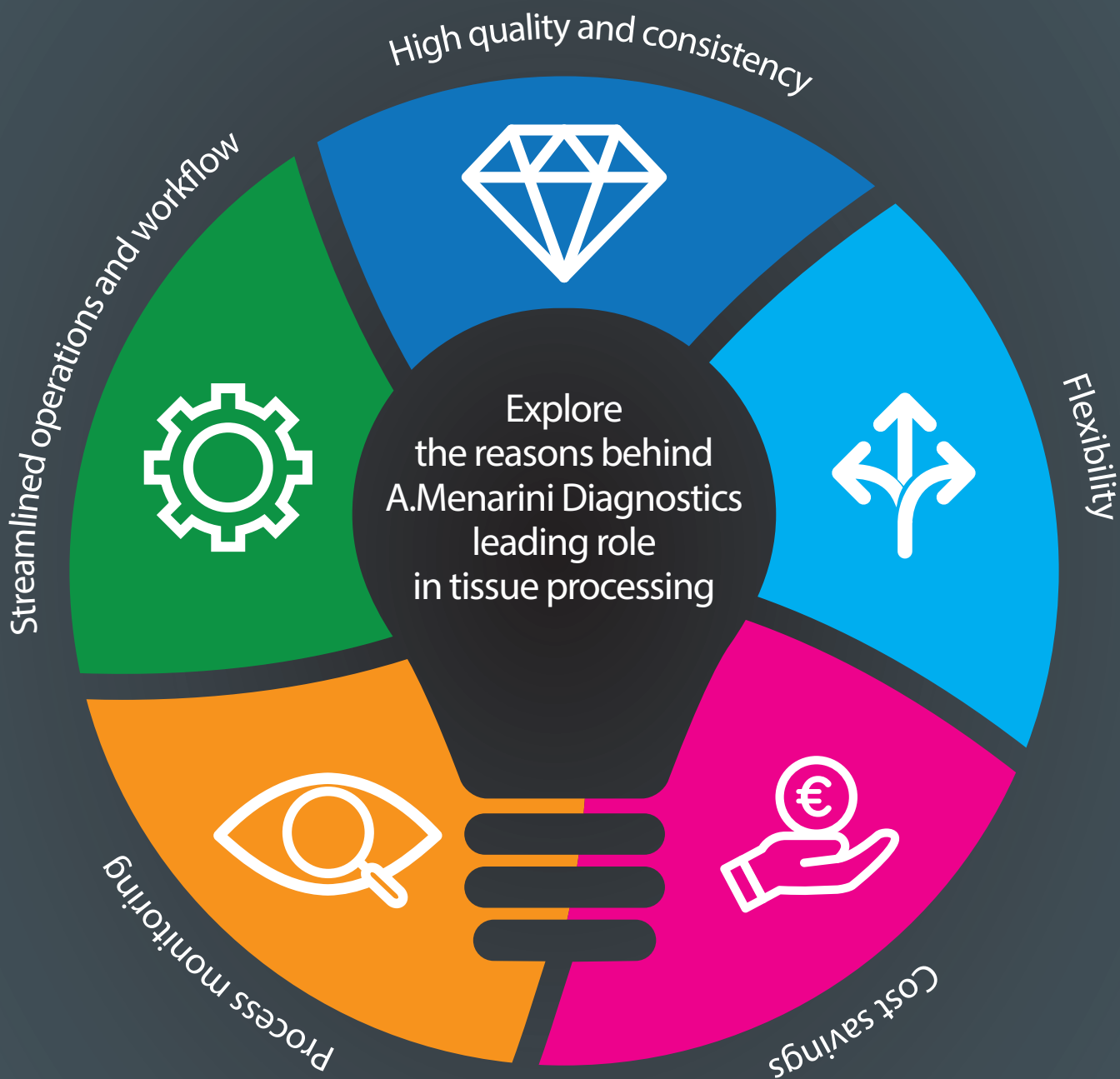


LEAN TISSUE PROCESSING



Unique solutions to improve laboratory workflow, simplify operations and consistently deliver high quality results



Think lean. Process lean.

Hybrid tissue processing solutions that help you build up your lean lab

Proper processing of tissue specimens is critical to ensure an accurate diagnosis. Both patients and health care personnel expect higher performance and timely responses.

A.Menarini Diagnostics responds with a **unique tissue processing line**, based on hybrid technology, that can

- drastically **streamline workflow**
- **eliminate waste** (of materials and time)
- foster a system of **continuous improvement**

to deliver a better product, i.e., high-quality tissue preparations that improve patients outcomes with prompt diagnoses and, simultaneously, improve laboratory workflow, while reducing overall expenses and operating costs.

Lean tissue processing provides the ideal combination of automatic processing performance, reagent efficiency and environmental sensitivity (xylene-free), with the morphology and quality histologists and pathologists expect.



A.Menarini Diagnostics: **your lean lab partner**

Our goal is to continually improve your lab processes.

Our commitment to managing projects in an efficient, innovative, and responsible way guides us in doing so.



Streamlined operations and workflow

Unmatched processing time and efficient workload distribution

Hybrid tissue processing technology drastically reduces specimen processing time, allowing even distribution of cases throughout the day and **making workloads more manageable**.

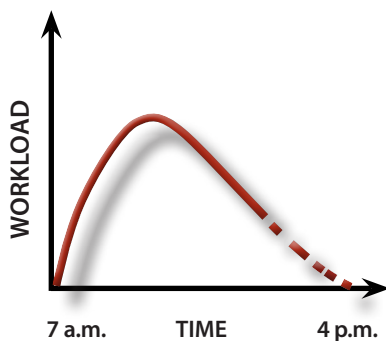


Throughout the DAY the histotech can quickly process small biopsies and urgent specimens, on demand. The short processing schedules allow embedding, cutting and staining of specimens so that slides are pathologist-ready on the same day, eliminating bottlenecks and maximizing staff efficiency.

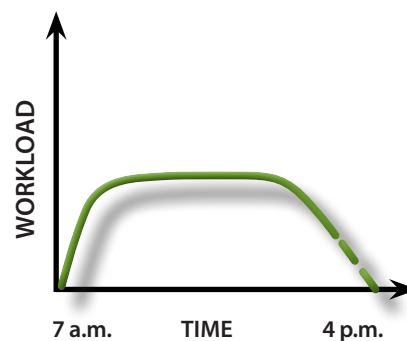


The routine samples can be automatically processed **during the NIGHT**, using either conventional or rapid hybrid heating technology.

CONVENTIONAL PROCESSING



HYBRID TISSUE PROCESSING



Streamline process. Reduce stress. Optimize efficiency.

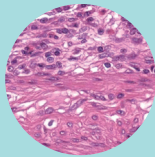


High-quality and consistency

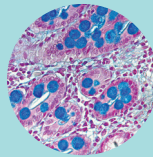
Enhanced results to improve patients outcomes

A.Menarini Diagnostics hybrid tissue processing technology is designed to reliably deliver **high-quality specimens**, thanks to superior process control

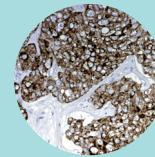
and optimized protocols that consistently assure the highest standards of accuracy, while addressing workflow challenges.



Colonic biopsy, microwave processed H&E (x400)

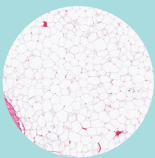


Bowel biopsy. Alcian blue microwave staining of mucin producing cells (x400)

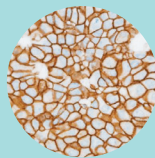


Adenocarcinoma immunostaining of cytokeratin CAM5.2, microwave processed (x400)

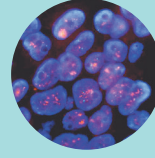
Superior processing of fatty tissues (e.g., breast)



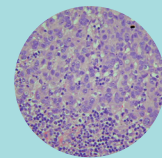
Breast biopsy microwave processed H&E (x50)



Breast cells HER2 amplification detection by IHC, processed by microwaves. Hematoxylin counterstain (x400)



Breast cells HER2 amplification detection by FISH processed by microwaves. Red-labeled HER2 probe (x800)



Metastatic breast cancer in lymph node, microwave processed H&E (x400)



Enhanced quality.
Consistent results.
Improved outcomes.



Flexibility

The freedom to process according to your needs

Choose the tissue processor that works best for your lab and expand your capabilities – easily and more affordably than you ever thought possible. A.Menarini Diagnostics will be with you every step of the way and help you transition to improved laboratory management.

A full range of instruments

We turn a portfolio of choices into lab-specific solutions to meet your tissue processing needs.

- Automatic: Pathos Delta, Logos, Logos One
- Semi-automatic: KOS, Logos J
- All-in-one autoembedding: Synergy + Pathos Delta and Logos

Any type of tissue, any size

Unmatched processing flexibility to fit any tissue and workload requirement.

- Small, fatty & oversize samples
- No limits on samples thickness with a full range of racks

Adaptability to customized workflow streams

Every solution is planned, designed, installed and supported **to satisfy the unique needs of an individual customer's laboratory.**

You will be able **to process according to your priorities** with a workflow that best fits your lab need/load.

Driving efficiency through flexibility.





Cost savings

Reduce costs while improving efficiency and protecting health and the environment

Dramatic reagent savings by design is also a key differentiating factor of hybrid tissue processing technology by A.Menarini Diagnostics.

Xylene-free protocols eliminate solvent degradation of the paraffin.

Extensive reutilization of paraffin wax, along with

reduced reagent consumption and waste deliver **dramatic cost saving**, while providing a **greener work environment** by eliminating harsh chemicals. Moreover, **less time** is required for reagent changes and **less space** is needed for reagent stocking.



	Hybrid processing (Pathos Delta and Logos)	Conventional
Ethanol	317.5 l	426.7 l
Isopropanol	211.6 l	-
Wax	50 kg	401.6 kg
Xylene	-	426.7 kg
Cleaning reagents	-	80 l

Process monitoring

Manage data, resources and workflow to further streamline your processes

Modern connectivity and remote technology are transforming the way lab data, resources and workflow are managed.

A.Menarini Diagnostics can provide your lab with the tools and software to **continuously monitor and control your tissue processing units** day and night,

and improve organization of the daily workload.

- Real time process monitoring
- E-mail notifications
- Event log file
- Patient-case ID sorting
- LIS integration



A full range of instruments to choose from

Put the full potential of lean tissue processing to work for you

At A.Menarini Diagnostics, we understand that there are a lot of differences from one lab to the next.

Differences in volumes, systems, staffing levels, processing needs, and budgets combine to make every laboratory unique.

Fortunately, we offer a **broad portfolio of products** and the depth of service needed to help ensure that a tissue processing workflow is designed and maintained to meet each laboratory's requirements. We turn our portfolio of choices into lab-specific solutions.

We offer a
broad portfolio
of products.



LOGOS

Simultaneous dual
retort hybrid
tissue processor



LOGOS ONE

Fully automated
single retort
tissue processor



LOGOS J

Hybrid small batch
automated
tissue processor



PATHOS DELTA

Fully automated
hybrid
tissue processor

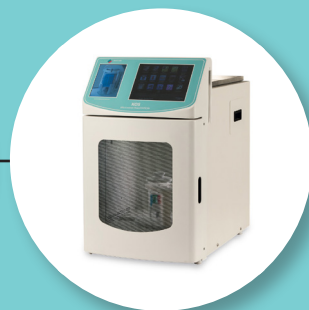
LEAN TISSUE PROCESSING



LOGOS SYNERGY RACK



PATHOS SYNERGY RACK



KOS



MILEWATCH

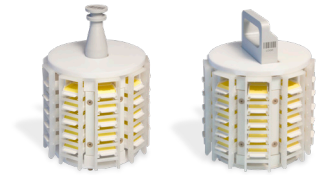
**All-in-one
auto-embedding
system**

**All-in-one
auto-embedding
system**

**Bench-top
multifunctional
microwave tissue
processor**

**24/7
unit surveillance
system**

All-in-one auto-embedding system

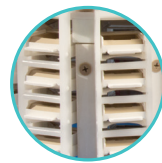
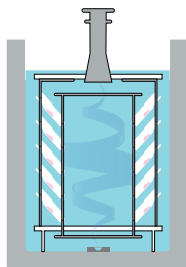


SYNERGY is a patented system that incorporates automatic tissue embedding into the processing protocols. SYNERGY is applied to A.Menarini Diagnostics' rapid tissue processors PATHOS Delta and LO-

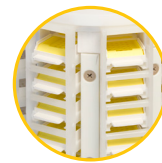
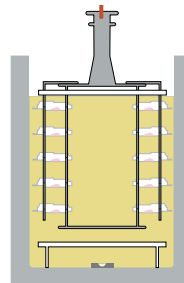
GOS Series. Thanks to a dedicated rack and consumables, the same processor unit can perform automatic embedding. All tissue types and dimensions can be processed and embedded with this method.

SYNERGY PROCESSING METHOD

The specially designed rack has a leverage system that allows the molds and cassettes to sit in two positions according to the phase of processing.



During the fixation and reagent steps, the molds are angled, so that fluids can flow in and out without retention.

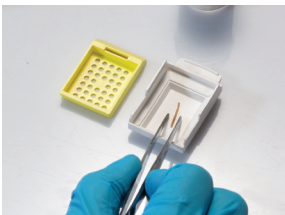


At the end of wax impregnation the molds go flat to collect the paraffin necessary to embed the tissue.

ADVANTAGES AND EXCLUSIVE FEATURES

- Processing and embedding in a single unit with no transfer of cassette from the tissue processor to the embedding station
- Optimal flat positioning also for small biopsies
- Manual embedding step skipped
- Up to 45 cassettes of needle biopsies processed and embedded every hour
- Both standard & auto-embedding protocols are preloaded in PATHOS Delta or LOGOS
- Standard tissue processor maintenance, no extra service costs

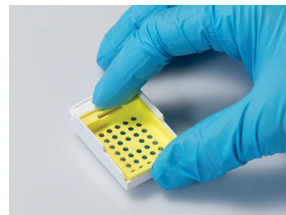
Simple and intuitive operations



The specimen is placed at the base of the plastic mold



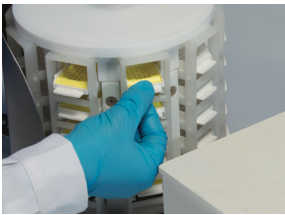
A special pad to maintain the position goes on top



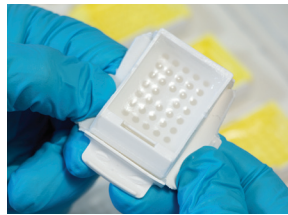
The cassette is applied as a mold cover



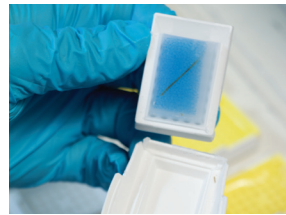
The mold and cassette assembly is inserted in the rack



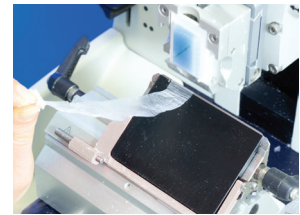
After the operator removes the rack from the processor, the cassettes are placed one by one on a standard cold plate



After 10 minutes, the cassettes are ready to be opened for cutting at the microtome



The mold is opened and the specimen is quickly released for cutting



With Synergy, trimming is reduced. No need to modify the cutting procedure

SYNERGY PERFORMANCE

Number of blocks per run: 45.

Processing cycles

SPECIMEN THICKNESS	PROCESSING AND EMBEDDING TIME
1 mm	1 h 35 minutes
3 mm	2 h 55 minutes
5 mm	5 h 35 minutes





MileWATCH

24/7 unit surveillance system

MileWATCH is a 24/7 unit surveillance system that continuously monitors and controls A.Menarini Diagnostics units, day and night.

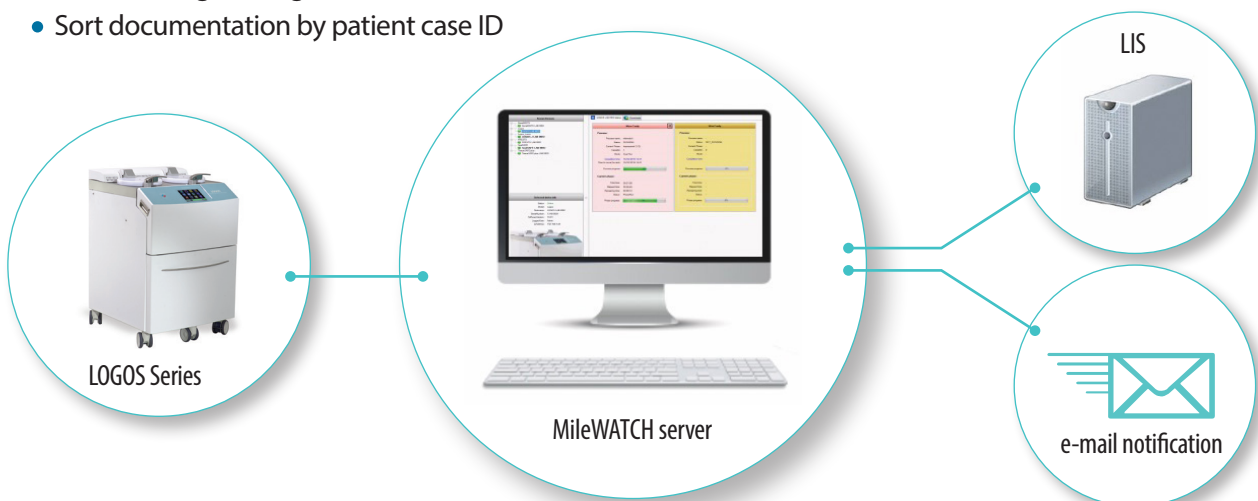
Status information is collected from units installed both in operating theaters and in the pathology laboratory.

Compatible with existing laboratory PCs and servers, MileWATCH works without an internet connection: all information is securely stored within the LAN.

MileWATCH offers the possibility to create a unique samples chain of custody, from the operating theater, preserving evidence of the case ID, formalin ratio used, temperature and time of the transportation, until tissues have arrived in the Pathology Lab.

Tissue processing protocol details and final storage information (for the LOGOS Series) will also be collected by MileWATCH and sent to local LIS (Laboratory Information System).

- Monitor the process in real time
- Be notified by e-mail
- Get event log and log file
- Sort documentation by patient case ID





BELGIUM

Menarini Benelux S.A/N.V.
Division Diagnostics
De Kleetlaan 3
1831 Diegem, Belgium
Tel. +32-2-7214545
Fax +32-2-7215049
www.menarinidiagnostics.be

GERMANY

A. Menarini Diagnostics Deutschland
Division der Berlin Chemie AG
Glienicker Weg 125
12489 Berlin, Germany
Tel. +49-30-67073000
Fax +49-30-67073020
www.menarinidiagnostics.de

GREECE

Menarini Diagnostics s.a.
575, Vouliagmenis Ave.
164 51 Argyroupolis - Athens, Greece
Tel. +30-210-99 44 952
Fax +30-210-99 45 029
www.menarinidiagnostics.gr

ITALY

A. Menarini Diagnostics Srl
Via Lungo l'Ema, 7
50012 Bagno a Ripoli - Firenze, Italy
Tel. +39-055-5680422
Fax +39-055-5680905
www.menarinidiagnostics.it

SPAIN

A. Menarini Diagnostics
Avenida del Maresme 120
08918 Badalona, Barcelona, Spain
Tel. +34-93-50-71000
Fax +34-93-27-80215
www.menarinidiag.es

THE NETHERLANDS

Menarini Benelux Division Diagnostics
De Haak 8,
5555 XK Valkenswaard, The Netherlands
K.v.K. Eindhoven 17085642
Tel. +31-40-20-82000
Fax +31-40-20-42184
www.menarinidiagnostics.nl

UNITED KINGDOM

A. Menarini Diagnostics Ltd
405 Wharfedale Road
Winnersh, Wokingham
Berkshire RG41 5RA, UK
Tel. +44-118-944 4100
Fax. +44-118-944 4111
www.menarinidiag.co.uk

