

C O R E H I S T O L O G Y S O L U T I O N S

HISTOCORE PEARL

THE COMPACT SOLUTION TO TISSUE PROCESSING



Advancing Cancer Diagnostics
Improving Lives

Leica
BIO SYSTEMS

HISTOCORE PEARL TISSUE PROCESSOR



OPTIMIZED PROTECTION FOR USER SAFETY

- Fully enclosed system
- Triple Fume Protection: extraction at the retort, an external exhaust adapter and an activated carbon filter provide added safety for lab staff

COMPACT SOLUTION

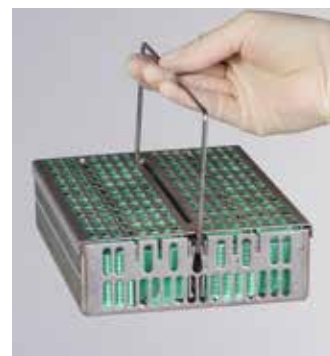
- 200 cassette capacity
- Small footprint to maximize laboratory space
- 3.5L reagent bottles and three paraffin baths help maximize run efficiency

SIMPLE OPERATION

- Easy-to-remember operating procedures on multi-lingual touch-screen interface
- Three pre-validated protocols and Reagent Management System (RMS) provides added flexibility
- USB connection to download log files help maintain accurate records

OPTIMIZE REAGENT EXCHANGE AND MAINTENANCE

- Removable paraffin baths allow for easy filling and draining
- Trays under the paraffin baths and reagent bottles effectively collect spilled liquids/chemicals



HISTOCORE PEARL TISSUE PROCESSOR

SYSTEM SPECIFICATIONS

GENERAL	
Nominal supply voltages	100 to 120 V AC or 220 to 240 V AC
Nominal frequency	50 / 60 Hz
Nominal power	1650 VA
Operating temperature range	+10 °C to +35 °C
RETORT	
Capacity	Max. 200 cassettes
Temperature (paraffin)	50 °C to 70 °C
Temperature (processing reagents)	Ambient temperature or 35 °C to 60 °C
Temperature (cleaning reagents)	Alcohol 62 °C, Xylene 67 °C

PARAFFIN BATHS	
Number of paraffin baths	3
Capacity	Max. 3.5 L per paraffin bath
Melting time	50 °C to 64 °C, 12 hours
Temperature setting range	50 °C to 70 °C
BOTTLES	
Number of reagent bottles	11 (in reagent cabinet)
Condensate bottle	1
Cleaning solution bottles	2
Bottle volume	Max. 3.5 L
DIMENSIONS AND WEIGHTS	
Dimensions, unpacked (W x D x H)	600 x 710 x 1320 mm (23.62 x 27.95 x 51.96 in)
Weight, unpacked	Max. 140 kg (308.65 lbs)
Weight, packed	Max. 175 kg (385.81 lbs)

Leica Biosystems is an international company with a strong network of worldwide customer services. For detailed contact information on your nearest sales office or distributor please visit our website: [LeicaBiosystems.com](https://www.LeicaBiosystems.com)

Leica Biosystems is a global leader in workflow solutions and automation. As the only company to own the workflow from biopsy to diagnosis, we are uniquely positioned to break down the barriers between each of these steps. Our mission of "Advancing Cancer Diagnostics, Improving Lives" is at the heart of our corporate culture. Our easy-to-use and consistently reliable offerings help improve workflow efficiency and diagnostic confidence. The company is represented in over 100 countries. It has manufacturing facilities in 9 countries, sales and service organizations in 19 countries, and an international network of dealers. The company is headquartered in Nussloch, Germany. Visit [LeicaBiosystems.com](https://www.LeicaBiosystems.com) for more information.

Products included are intended for *in vitro* diagnostic use only.

C O R E H I S T O L O G Y S O L U T I O N S

HistoCore PELORIS 3

PREMIUM TISSUE PROCESSING SYSTEM

Advancing Cancer Diagnostics
Improving Lives

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FOUNDATION FOR SUCCESS

The HistoCore PELORIS 3 seamlessly adapts to your incoming workflow demands without compromising tissue quality. World-leading processing times, unmatched protocol flexibility, and an intuitive design help enable laboratories to provide same-day results to pathologists.

Combined with advanced safety features, protecting both your laboratory and patient samples, the HistoCore PELORIS 3 will become your foundation for high-quality results; every time.



YOUR SCHEDULE, YOUR WAY

Load and unload cassettes on your schedule, not the instrument's. The unique dual-retort design, short cycle times and flexible protocols give you the flexibility to establish and adapt a workflow to meet the demands of your laboratory every day.

Urgent biopsies coming in? A validated 1 hour rapid protocol has your back. Breast samples ready for diagnosis within the same day? No problem, thanks to an optimized 5 hour fatty tissue protocol.

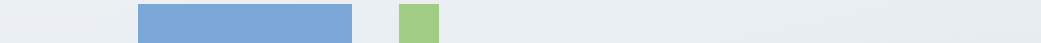
TIME OF DAY



RETORT ONE



RETORT TWO



KEY:



HIGH-QUALITY RESULTS; EVERY TIME

A magnetic impeller in each retort generates a reagent vortex to actively accelerate processing through rapid and even-heating, as well as active reagent distribution.



THE ACTIVFLO SYSTEM
provides ideal processing
conditions for all tissues.

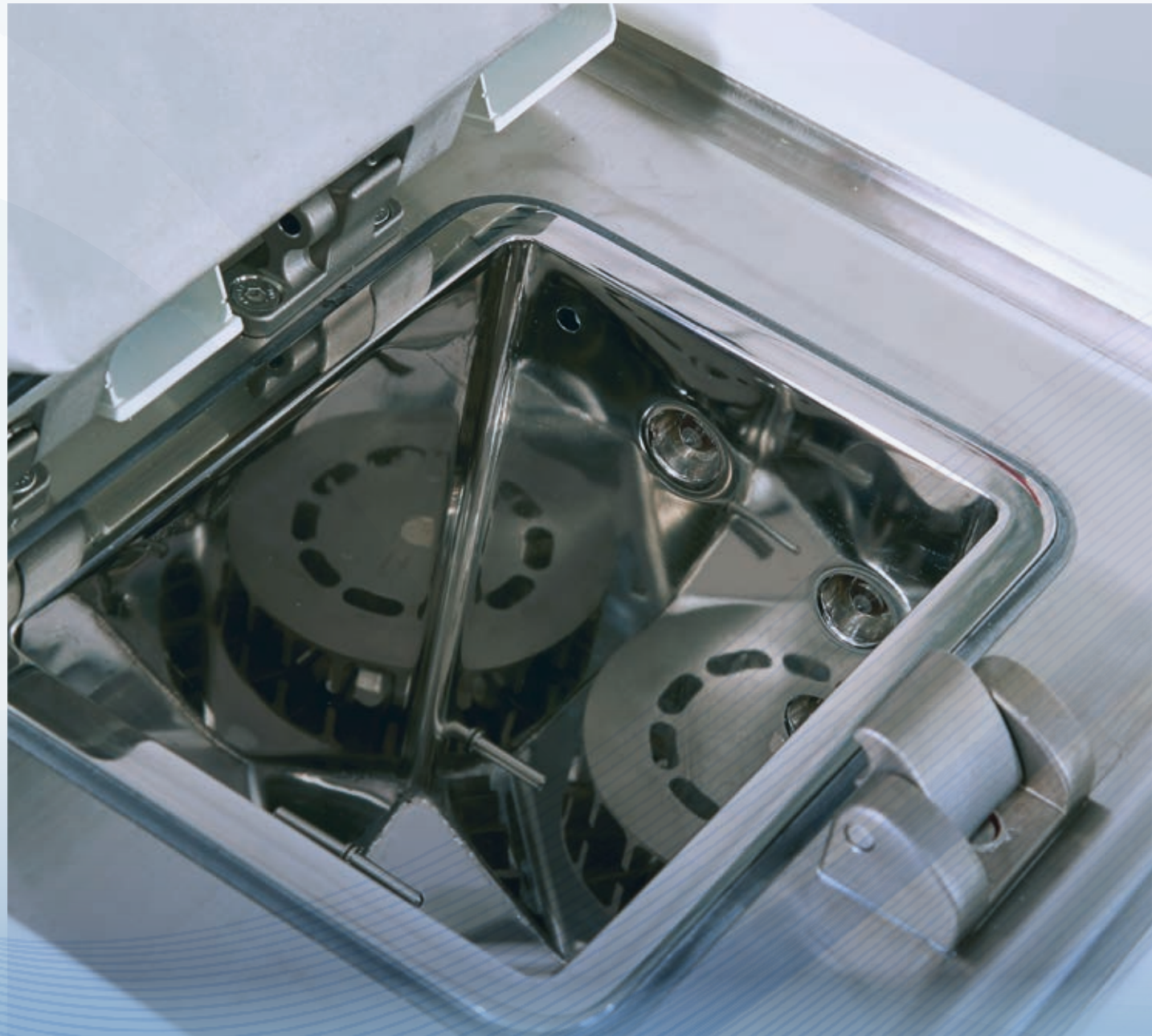
Combine with validated

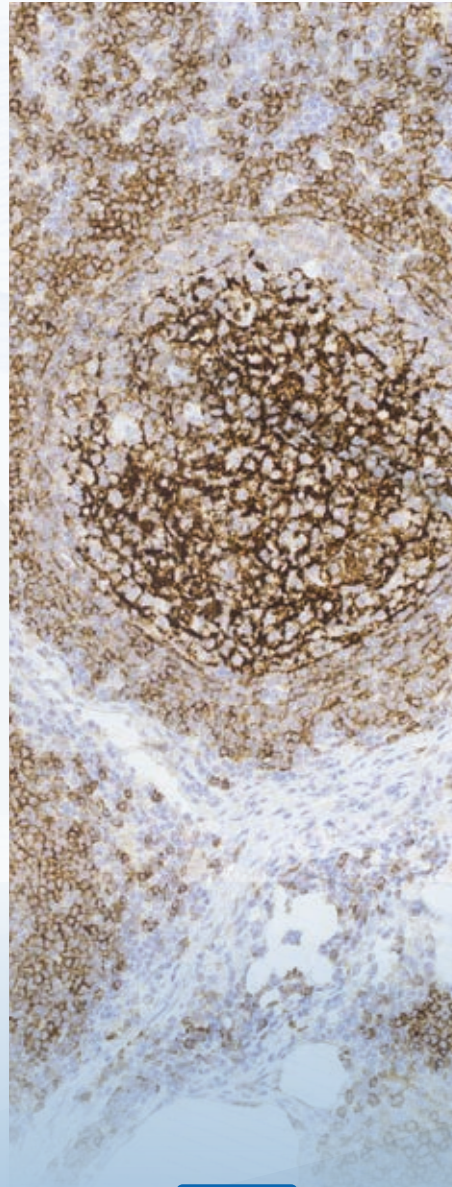
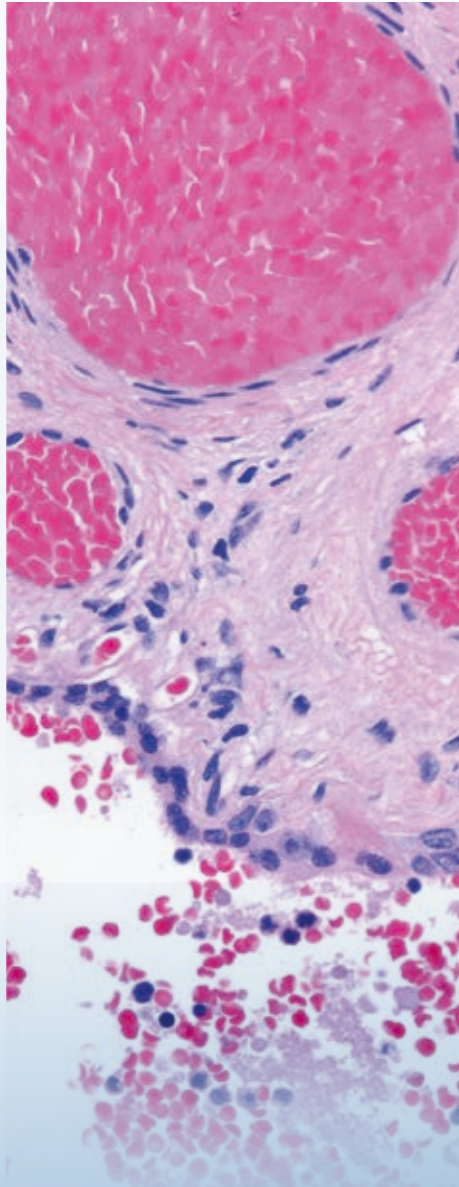
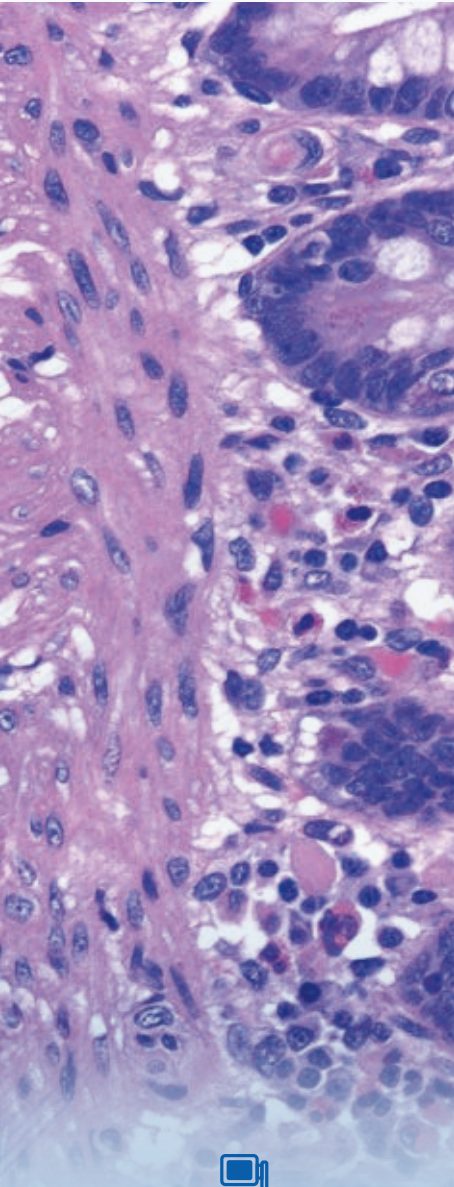
ACTIVFLO CASSETTES
which
drain up to

23



more efficiently than
standard cassettes.





FOUNDATION FOR CRISP, CLEAR STAINS

Histology workflows rely on efficiently fixed, processed and stained samples to enable reliable analysis. Optimal tissue processing conditions for each tissue type on the HistoCore PELORIS 3 lay the foundation for smooth downstream applications and the crisp, clear stains pathologists look for.

Staining (left to right):

- » HistoCore SPECTRA H&E S1 Stain System, Gastrointestinal Tract
- » HistoCore SPECTRA H&E S2 Stain System, Placenta
- » BOND Staining Platform, CD23 Chronic Lymphocytic Leukemia

CONFIDENCE IN YOUR RESULTS

Advanced safety features enable your laboratory to automatically track and trace each step of the tissue processing workflow, minimize the risk of reagent change errors, and protect your laboratory from cyberattacks.

The HistoCore I-Scan technology captures each cassette individually, including cassette ID, quantity and color. Use the scanner as well to capture the basket ID, individual user ID's, and reagent information.



ADDED CYBER SECURITY

including Anti-Malware Protection with Windows® Defender and whitelisting detection.



TWO BUILT-IN DENSITY METERS

monitor reagent changes and alert users if there's an incorrect concentration to protect the integrity of the tissue.





Histocore PELORIS 3
857 x 721 x 1500 mm
(59 x 33.7 x 28.4 in)

Competitor A
(2 Instruments
Side by Side)

Competitor B
(2 Instruments
Side by Side)

BENEFITS OF DUAL RETORTS

HISTOCORE PELORIS 3
optimizes the lab's footprint
by up to

55%

compared to other
single-retort instruments.

Compared to two single-retort tissue processors a dual-retort instrument saves valuable lab space. Furthermore, it allows laboratories to reduce tech time and optimize reagent consumption, enabling laboratory managers to run a cost-effective lab.

HISTOCORE PELORIS 3

reduces lab tech
maintenance time
by up to

72%



and optimizes
reagent costs
by up to

46%

PELORIS PARABLOCKS

improve your workflow
by **melting**
up to

21%

faster than pellets.



Reference:

» *Leica Biosystems Case Study Optimizing
Automated Tissue Processing Efficiency to
Reduce Cost*

HISTOCORE PELORIS 3 TISSUE PROCESSOR

SYSTEM SPECIFICATIONS

Instrument dimensions (h x w x d)	1500 x 857 x 721 mm (59 x 33.7 x 28.4 in)
Weight	331 kg (730 lbs) dry, 430 kg (948 lbs) full reagent load
Processing modes	Conventional (Xylene), Xylene-free
Cassette capacity	600 (maximum), 4 32 (spaced/xylene-free)
Retort	2 (allows for continuous processing)
Heating system	ActivFlo, non-microwave, rapid heat
Reagent station	16
Reagent volume	3.8 L (1 US gal) minimum 5 L (1.32 US gal) maximum
Paraffin wax stations	4 (each station is capable of filling one retort)
Paraffin melt time	5 hr pellets, 3 hr Parablocks
Reagent management	Concentration, cassettes, days, cycles
Operating voltage	100 to 120 V~ 220 to 240 V~
Operating current (maximum)	16 A (100 to 120 V~) 10 A (220 to 240 V~)
Mains frequency	50/60 H
Power consumption	1450 W (100 to 120 V~) 2150 W (220 to 240 V~)

HISTOCORE I-SCAN SPECIFICATIONS

Dimensions	174.5x64x38.8 mm
Weight	235g approx.
Buttons	1) Fill-in LED on/off button 2) Scanning/Photographing trigger button 3) Tick button

HISTOCORE I-SCAN FOR USE WITH HISTOCORE PELORIS 3

The HistoCore I-Scan scanner enables laboratories to scan 1D/2D barcodes and capture images via an integrated camera and barcode scanning engine. The scanner has an integrated TFT LCD to indicate device mode (scan/camera) and status. A USB cable connects the HistoCore I-Scan to the master instrument for power supply and data transfer. Three buttons on the device help control the scanner, the device mode is set by the master instrument.



57th Australian
Export Awards
2019 NATIONAL WINNER

Winner
2018 VICTORIAN
MANUFACTURING
Hall of Fame Awards

FOR IN VITRO DIAGNOSTIC USE

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