Leica ASP300 S

Superior Specimen Quality, Every Time!

The New Automated
Vacuum Tissue Processor

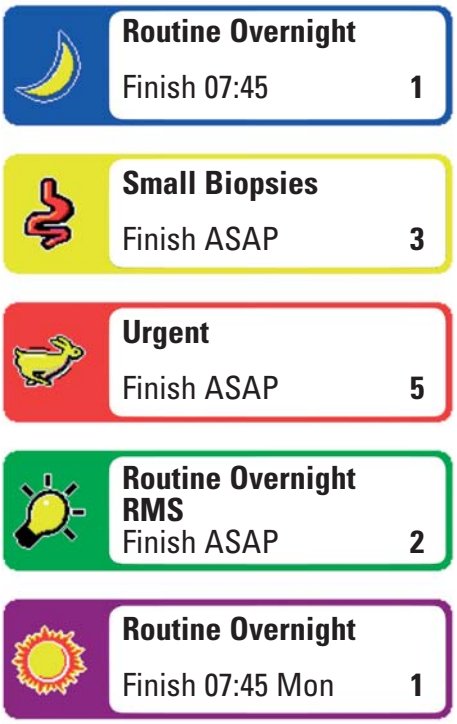
Leica
MICROSYSTEMS

The Leica ASP300 set a new standard for specimen quality and reliability in automated tissue processing. Ongoing research and development work with enhanced processes and system components now reflects the latest in state-of-the-art technology:

The New Leica ASP300 S

The new Leica ASP300 S, designed for routine clinical and research histopathology, is an innovative, smart processor for paraffin infiltration of tissue. Proven, enhanced technology and Leica's intuitive user interface are hallmarks of the ASP300 S. Straightforward routine user operations and a variety of 'Smart' features, such as Leica's Reagent Management System (RMS) and quick start for commonly used programs, improve specimen quality and laboratory economy. Once again the Leica ASP300 S sets a new standard. Leica Microsystems' application of state-of-the art engineering and manufacturing technology, combined with top quality components, continues to bring superior specimen processing to your laboratory.

Select your favorite programs with ease
Frequently used programs can be defined as 'Favorites'. A single touch of the touchscreen starts a favorite program, using the 'Smart Start' function. Smart Start automates the start of most common programs and allows the technician to perform scheduling functions, such as defining a delayed end time by extending certain program steps. Smart Start reduces user intervention, which improves operating reliability. Another feature: rapid protocols for biopsies are pre-stored to shorten turnaround time and eliminate the need to level workflow in the laboratory.



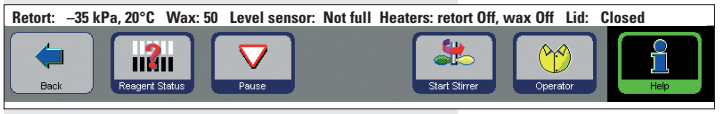
High-quality specimens, every time
The Leica ASP300 S is designed to reliably deliver high-quality specimens – every day of the year and for many years to come. Superior process control, functional design, and precise temperature control are just a few of the features that ensure optimum specimen quality.

The new Leica ASP300 S is a smart investment for the efficiency of your laboratory.

Leica Design by Werner Hölbl

Magnetic stirrer

Sensor



Full process control
The Leica ASP300 S and the technician work together as a team. The technician has the freedom to set all critical program parameters to achieve the perfect process and can further control tissue infiltration by modifying the pressure levels inside the retort, as needed. Minimal reagent carryover – achieved by the software-controlled 3-step draining process of the retort and by the retort design itself – also helps achieve superior specimen quality every time.

Real-time process data about key instrument settings, such as current filling status, temperature and pressure inside the retort, paraffin bath temperature, as well as status of the paraffin bath and retort heating systems, is always available.

Comprehensive specimen protection
A comprehensive, intelligent safety system reliably protects the specimens. The system even applies the best contingency plan for successful tissue processing should anything unexpected occur; for example, a power failure or operating errors such as missing or under-filled reagent bottles. The system's most important objective is always protection against possible loss of a specimen.

Easy-to-use Software

The Leica ASP300 S software is easy to learn and features an intelligent yet easy-to-operate user interface. Available in many different languages with intuitive graphics, Leica's ASP300 S software, operated via a solvent-resistant color touchscreen, guides the technician safely and smoothly through the tissue processing program.

Built-in quality assurance
Leica's enhanced Reagent Management System and printable data tracking assists the laboratory to comply with accrediting agency regulations and QC requirements. All important data from each process step is automatically logged into a data file and can be downloaded to a disk or printed. The two-level password security system ensures that only authorized personnel can operate the Leica ASP300 S. The software features context-sensitive help to answer common questions.

Start of presentation:
If the demo does not start automatically after the CD-ROM is inserted, please run the file <Start.exe> from the main directory of the CD-ROM.

Recommended system components for use of CD-ROM:
Processor: Intel Pentium or equivalent processor 1,6 GHz
RAM memory: : 256 MB
Color monitor: Resolution of 800 x 600 pixels with a color depth of 16.7 million colors (24-bit)
CD-ROM drive: 24 speed or faster
Sound reproduction: Soundcard + speakers
Operating System: Windows xp/2000

Enhanced Reagent Management System

Leica's comprehensive Reagent Management System (RMS) allows critical data to be assessed at a glance. The RMS ensures that all reagents and paraffin are automatically used in the order of cleanliness. The user-programmable warning thresholds automatically indicate, in a timely manner, when reagents need to be changed. To fill or drain the color-coded reagent bottles, the technician simply selects the desired bottle in the menu, and the RMS automatically takes care of the fill/drain process. The RMS ensures high-quality specimens and simultaneously reduces the cost of instrument operation through economic reagent usage. For documentation and evaluation purposes, reagent and specimen data can be exported and saved into word processing or spreadsheet programs and printed.

NEW! Microwaveable tissue cassette baskets

Leica's new plastic cassette baskets are suitable for microwave-assisted specimen fixation. The convenient basket hook transports three baskets at a time.

Leica RemoteCare™

NEW! Real-time application and service support

Tissue Processor downtime dramatically impacts the efficiency of your laboratory and the quality of tissues. To help maximize uptime and the performance of your most critical process step, tissue processing, Leica Microsystems now takes service and application support to the next level. The Leica ASP300 S offers Leica RemoteCare, a patented, secure software program that provides real-time application and service support. The possibility to diagnose system problems remotely with reasonable accuracy helps customers prevent issues that can cause downtime and specimen loss.

RemoteCare monitors the ASP300 S in real-time, captures instrument data, and proactively resolves potential problems. This is accomplished through an internet connection from the ASP300 S's on-board computer (direct or proxy server connection to the ASP300 S is required). Privacy is always protected by the RemoteCare service. Access to any customer data is blocked. RemoteCare service can be installed during the installation of the ASP300 S or during a routine engineer visit. Also, you can upgrade your ASP300 S to RemoteCare at anytime.

Built to Last

"Made in Germany" using the finest durable materials and components, the Leica ASP300 S is built to last and represents state-of-the-art engineering and production technology. Reliability and long-term cost-savings make the Leica ASP300 S the new standard in automated tissue processing.

1 Comprehensive monitoring and documentation
The new Leica ASP300 S is equipped with a printer port that documents all program runs and settings for subsequent evaluation and/or printing. This comprehensive documentation system is capable of creating records to comply with all current quality control standards.

2 Active paraffin cleaning cycle
A simple touch of the screen reduces the concentration of solvent contaminants in the paraffin. An active extraction process ensures efficient paraffin cleaning, which extends paraffin life, improves tissue quality, and reduces operating costs.

3 Fully enclosed fume system
A smart internal air handling system contains the contaminated air inside the instrument. All fumes are condensed and collected in a designated container. An activated, long-life carbon filter then absorbs any remaining fumes. This is one of Leica's many safety enhancements for a hazard-free environment.

4 Improved reagent bottle and cabinet design
Leica's unique reagent bottle design reliably prevents reagent carry-over. The cabinet is designed to offset any fluctuations in the sizes of the reagent bottles so that bottle installation and removal can always proceed smoothly, without risk. An easily accessible drip tray catches any reagent spills and protects the laboratory environment.

5 Ergonomic design provides easy accessibility
Ample surface space is available on the paraffin bath and the retort lid to facilitate the exchange of paraffin or cassette baskets. The retort lid's safety lock is safely opened and closed with one hand. All user-relevant functions, work areas, and connections are easily accessible. These include the hose connections for remote fill and drain of reagents and/or paraffin, the printer port, the serial port, and the connectors for the local and external remote alarm.

6 Remote Fill and Drain enhances user safety
Leica's remote Fill and Drain provides contact-free reagent handling for enhanced user safety. The external hose system conveniently drains reagents and paraffin. Filling the reagent bottles is safe and easy. The remote fill system ensures that reagent bottles are always filled to the correct fluid level with no under-filled bottles. The result: maximum user protection and tissue quality with minimum operating errors.

Leica ASP300 S – Technical Specifications

PROCESSING RETORT

Maximum capacity - metal basket	300 cassettes
Maximum capacity - microwaveable plastic basket	252 cassettes
Retort material:	stainless steel
Level sensing:	optical sensors
Processing retort volume:	4.3 liters
Paraffin temperature range:	40–65 °C
Reagent temperature range:	ambient, 30–55 °C
Temperature accuracy	+/– 1 °C
Retort draining:	selectable (80, 120, 140 seconds), 3 steps
Vacuum & pressure options	4 (V/P, V, P, Ambient)
Vacuum	– 70 kPa (g)
Pressure	+35 kPa (g)
Recirculation (pump in/out)	
– Time before first cycle	12 minutes
– Time between cycles	20 minutes
Incubation time	0–99 hours, 59 minutes
Delayed end-time	programmable, up to one week

PARAFFIN BATHS

Number of paraffin baths	3, connected directly to the retort
Paraffin bath volume	4.3 liters each
Average paraffin melting time	approx. 10 hours

REAGENT BOTTLES

Number of reagent bottles	10
Reagent bottle volume	4.3 liters each
Clean cycle bottles	3, plus 1 external

OTHERS

Display	Color touchscreen, solvent-resistant
Reagent Management System	•
Remote fill and drain system	•
Remote paraffin drain system	•
Reagent drip tray	•
3.5" disc drive	•
Two external alarm connections	•
Parallel printer port	•
Serial port	•
Approvals	The Leica ASP300 S has been designed and manufactured in compliance with, CSA-us, c-CSA and IEC requirements.

DIMENSIONS & WEIGHT

Overall dimensions (D x W x H)	68 x 59 x 132 cm (27 x 24 x 52 inches)
Weight (instrument only)	140 kg (308.7 lbs)

Technical specifications subject to change. Wide range of accessories on request.

State-of-the-art development, manufacturing and quality control procedures – certified under DIN EN ISO 9001 – ensure highest quality and reliability.

Key Features

- Easy-to-learn and operate user interface with a solvent-resistant color touchscreen
- Simplified software with context-sensitive online help feature
- RemoteCare™ for real-time application and service support
- Comprehensive safety system with innovative reagent compatibility check
- Instrument performance control
- Remote Fill and Drain feature
- Enhanced Reagent Management System (RMS)
- Precise temperature control and reagent agitation for short protocols
- 4 user-defined cleaning programs
- Active paraffin cleaning program
- Two-level password security
- Comprehensive documentation options
- Durable construction, which incorporates leading-edge technology

Leica Microsystems – the brand for outstanding products

Leica Microsystems' mission is to be the world's first-choice provider of innovative solutions to our customers' needs for vision, measurement and analysis of microstructures.

Leica, the leading brand for microscopes and scientific instruments, developed from five brand names, all with a long tradition: Wild, Leitz, Reichert, Jung and Cambridge Instruments. Yet Leica symbolizes innovation as well as tradition.

Leica Microsystems – an international company with a strong network of customer services

Australia:	Gladesville	Tel. +61 2 9879 9700	Fax +61 2 9817 8358
Austria:	Vienna	Tel. +43 1 486 80 50 0	Fax +43 1 486 80 50 30
Canada:	Richmond Hill/Ontario	Tel. +1 905 762 2000	Fax +1 905 762 8937
Denmark:	Herlev	Tel. +45 4454 0101	Fax +45 4454 0111
France:	Rueil-Malmaison	Tel. +33 1 47 32 85 85	Fax +33 1 47 32 85 86
Germany:	Bensheim	Tel. +49 6251 136 0	Fax +49 6251 136 155
Italy:	Milan	Tel. +39 0257 486.1	Fax +39 0257 40 3475
Japan:	Tokyo	Tel. + 81 3 5421 2800	Fax +81 3 5421 2896
Korea:	Seoul	Tel. +82 2 514 65 43	Fax +82 2 514 65 48
Netherlands:	Rijswijk	Tel. +31 70 4132 100	Fax +31 70 4132 109
People's Rep. of China:	Hong Kong	Tel. +852 2564 6699	Fax +852 2564 4163
Portugal:	Lisbon	Tel. +351 21 388 9112	Fax +351 21 385 4668
Singapore		Tel. +65 6779 7823	Fax +65 6773 0628
Spain:	Barcelona	Tel. +34 93 494 95 30	Fax +34 93 494 95 32
Sweden:	Sollentuna	Tel. +46 8 625 45 45	Fax +46 8 625 45 10
Switzerland:	Glattbrugg	Tel. +41 1 809 34 34	Fax +41 1 809 34 44
United Kingdom:	Milton Keynes	Tel. +44 1908 246 246	Fax +44 1908 609 992
USA:	Bannockburn/Illinois	Tel. +1 847 405 0123	Fax +1 847 405 0164

and representatives of Leica Microsystems in more than 100 countries.

The companies of the Leica Microsystems Group operate internationally in three business segments, where we rank with the market leaders.

• Microscopy Systems

Our expertise in microscopy is the basis for all our solutions for visualization, measurement and analysis of microstructures in life sciences and industry. With confocal laser technology and image analysis systems, we provide three-dimensional viewing facilities and offer new solutions for cytogenetics, pathology and materials sciences.

• Specimen Preparation

We provide comprehensive systems and services for clinical histo- and cytopathology applications, biomedical research and industrial quality assurance. Our product range includes instruments, systems and consumables for tissue infiltration and embedding, microtomes and cryostats as well as automated stainers and coverslippers.

• Medical Equipment

Innovative technologies in our surgical microscopes offer new therapeutic approaches in microsurgery.

Winner 2005

Innovationspreis der deutschen Wirtschaft
The World's First Innovation Award

www.leica-microsystems.com

Leica MICROSYSTEMS