

# 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, lithography 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

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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
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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 four 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

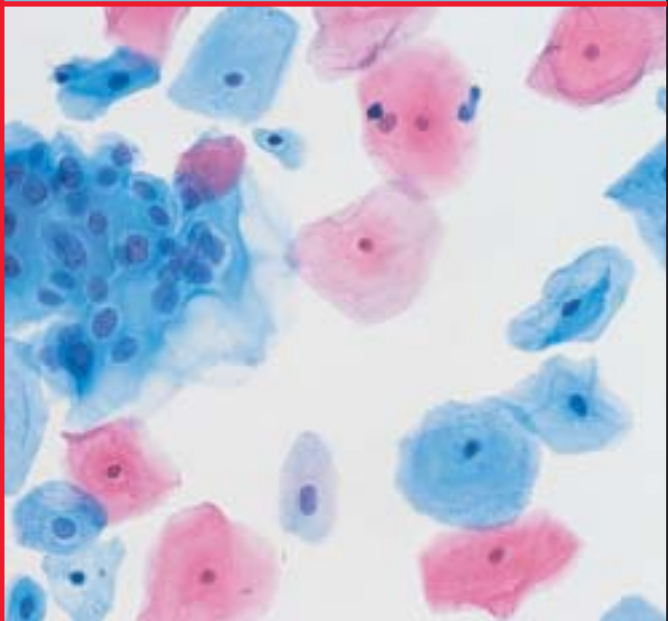
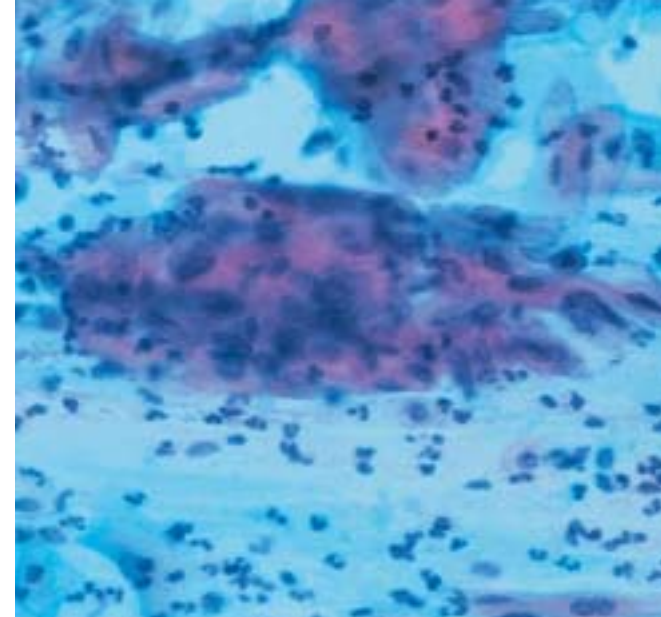
We provide comprehensive systems and services for clinical histo- and cytopathology applications, biomedical research and industrial quality assurance. Our product range includes instruments, systems and consumables for tissue infiltration and embedding, microtomes and cryostats as well as automated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

### ● Medical Equipment

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

### ● Semiconductor Equipment

Our automated, leading-edge measurement and inspection systems and our E-beam lithography systems make us the first choice supplier for semiconductor manufacturers all over the world.



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## Adaptable, Reliable, and Cost-Effective

Creative System Solutions for the Cytology Laboratory

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# Integrated Range of Automated Instruments for the Cytology Laboratory

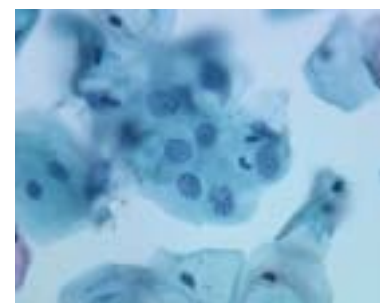
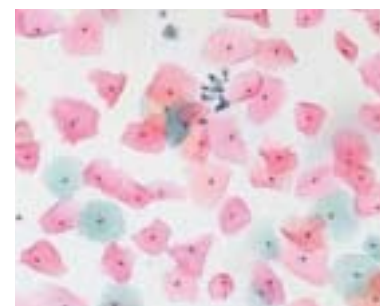
Following our tradition of offering the highest quality products for specimen preparation and optical microscopy, Leica's cytology products offer flexibility, reliability, and cost-effective benefits for your laboratory.

## Consider the value of automation:

- Efficient use of resources – better utilization of the technician's time.
- Standardization of procedures – high-quality reproducible staining and coverslipping.
- Elimination of tedious repetitive motions and the risk of musculoskeletal disorders (MSDs).



	Leica ST5020	Leica Autostainer XL	Leica ST4040
Flexibility	●●●	●●	●
High specimen throughput	●●	●●	●●●
Simultaneous staining	●●●	●●	●
Reproducibility	●●	●●	●●●
Leica Workstation concept	●●●	●●	–



# Leica ST5020 Multistainer for Automated Staining with Unmatched Flexibility

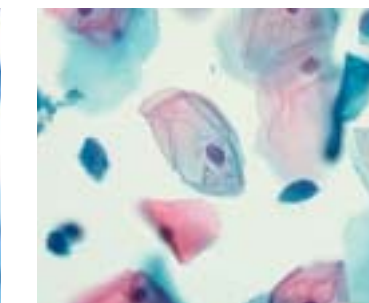
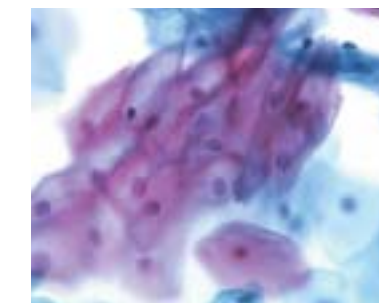
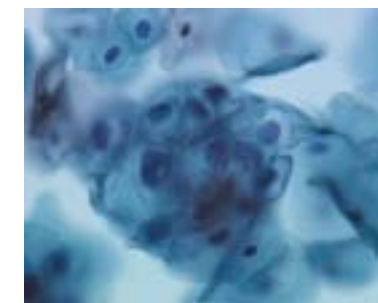
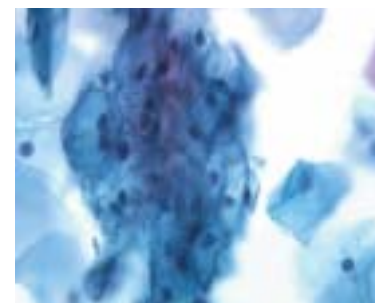
The Leica ST5020 Multistainer is the most innovative automated staining system for the cytology laboratory. The Leica ST5020 offers ample reagent vessels to ensure separate simultaneous staining of gynae and non-gynae specimens. The instrument produces consistent staining results economically. Flexibility and ease of operation of the Leica ST5020 provides staining perfection for the busy cytology laboratory time after time.



Leica ST5020 Multistainer

- High specimen throughput that supports your protocols with up to 12 racks of 30 slides at a time and continuous loading capability.
- Able to stain gynae and non-gynae specimens simultaneously and store up to 50 user-defined staining protocols.
- Patented CodeRack™ transponder technology identifies each rack enabling the Leica ST5020 to automatically start the correct staining program including specimen-specific coverslipper settings.
- Large, solvent-resistant, color touch screen provides easy, intuitive operation.
- Real-time graphical representation of the process.
- Water consumption can be reduced by 80 % with the new water saving valves.
- The user is protected by an integrated, dual-filter fume extraction system.
- Leica Workstation concept: ST5020 can be fully integrated with the Leica CV5030 Glass Coverslipper with robotic basket transfer for maximum efficiency. (Stand-alone option is also available).

# show your colors!



# advancing cytology!

Cover images:  
 Top left: Conventional Pap smear. Courtesy of Cytyc Corporation.  
 Bottom right: ThinPrep® Pap Test. Courtesy of Cytyc Corporation.  
 Pap images throughout catalog, partially courtesy of Cytyc Corporation.  
 ThinPrep® Pap Test is a registered trademark of Cytyc Corporation.

# Leica Autostainer XL (ST5010) for Automated Slide Staining

The Leica Autostainer XL (ST5010), with its proven technology, provides reproducible, consistent, and high-quality staining. Capable of running several protocols simultaneously, the Autostainer XL is well suited for your cytology laboratory.



Leica Autostainer XL (ST5010)

- High specimen throughput that supports your protocols with up to 10 racks of 30 slides at a time and continuous loading capability.
- 15 user-defined staining protocols can be programmed.
- Accessible, single-tiered cabinet is designed for safe, quick and convenient reagent changes.
- Simple and straightforward operation assures easy user interface.
- Proven technology with over 3,000 installed units worldwide.
- Features integrated, dual-filter fume extraction system.
- Leica Workstation concept: Can be used as a stand-alone instrument or interfaced with the Leica CV5030 Glass Coverslipper with robotic basket transfer for truly integrated, hands-off operation.

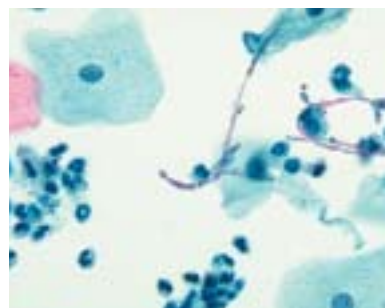
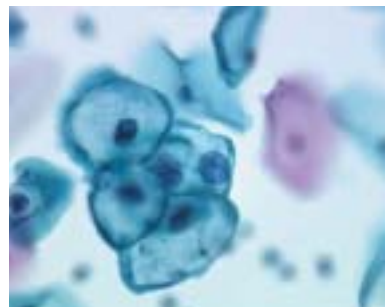
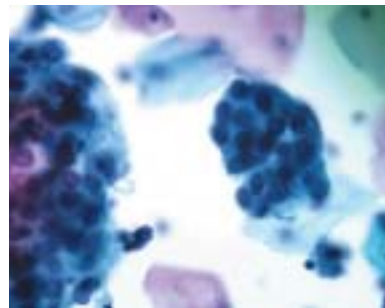
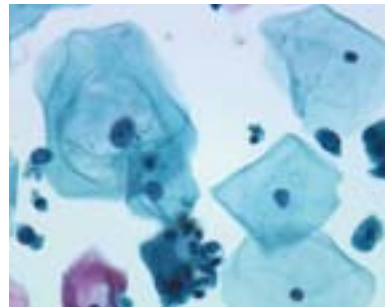
# Leica CV5030 Glass Coverslipper for Automated Coverslipping

The Leica CV5030 Automated Glass Coverslipper produces slides with superior optical quality for reliable long-term storage. This flexible system accepts the staining racks of virtually all routine slide stainers and is compatible with most common brands and sizes of coverglass as well as common brands of mounting media. The Leica CV5030 provides a safe, reliable solution to your current and future coverslipping requirements in the cytology laboratory.

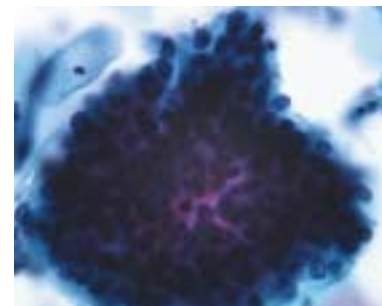
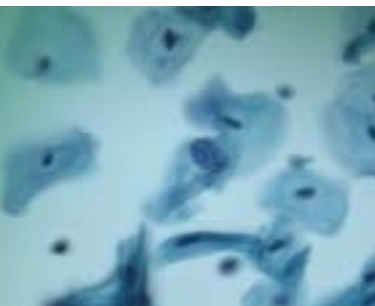


Leica CV5030 Coverslipper

- 4 user-defined programs are available to easily accommodate conventional cytology preparations as well as liquid based cytology samples (LBC).
- Coverslips at a rate of 1 slide per 9 seconds to increase laboratory productivity.
- Utilizes most commonly used coverslips either 22 or 24 mm wide x 40 to 60 mm long.
- Features batch loading of up to 60 slides.
- Slide racks are loaded into a reagent bath and coverslipped wet to alleviate drying artifact.
- Features an integrated fume extraction system with activated charcoal filter.
- Leica Workstation concept: Can be used as a stand-alone instrument or interfaced with the Leica ST5020 Multistainer or the Leica Autostainer XL with robotic basket transfer.



show your colors!



stretch your  
lab's possibilities!

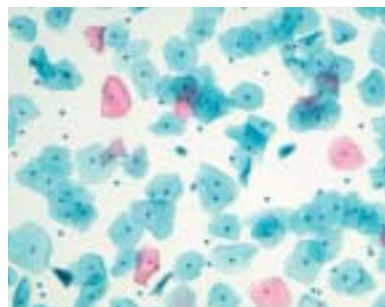
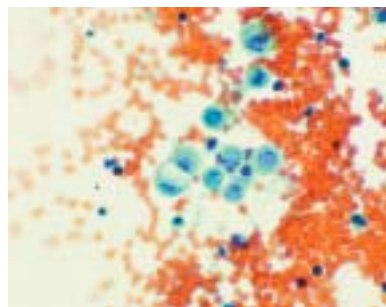
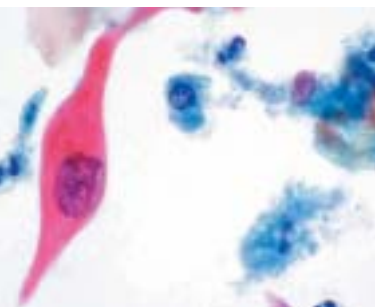
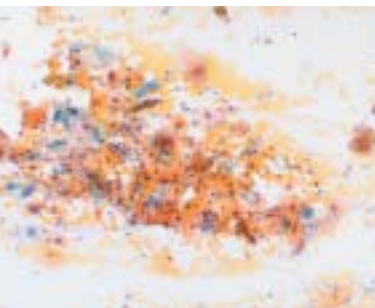
# Leica TS5025 and TS5015 Transfer Stations for Integrated Staining and Coverslipping

To create the first true “walkaway” automated workstation that eliminates the manual handling of slide racks between staining and coverslipping, Leica introduces two options:

**The Leica TS5015 Transfer Station** interfaces the Leica Autostainer XL (ST5010) with the Leica CV5030 Glass Coverslipper.

**The Leica TS5025 Transfer Station** interfaces the Leica ST5020 Multi-stainer with the Leica CV5030 Glass Coverslipper.

Either combination of stainer, transfer station, and coverslipper provides an efficient, time and labor-saving workstation that benefits the cytology laboratory.



Leica Autostainer XL Workstation: Leica TS5015 Transfer Station with the Leica CV5030 and Leica Autostainer XL (ST5010)



Leica ST5020 Workstation: Leica TS5025 Transfer Station with the Leica CV5030 and Leica ST5020

# the ‘original walkaway’ solutions!

# Leica ST4040 Linear Staining System for Automated Slide Staining

The Leica ST4040 was designed to meet the staining needs of today's highest throughput laboratories. Multiple instrument configurations match the unique specimen volume and workflow of your cytology laboratory.

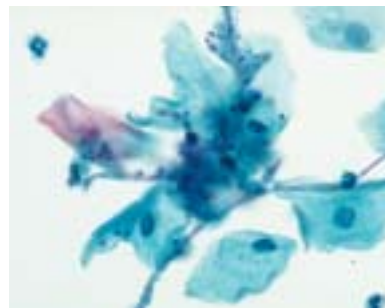
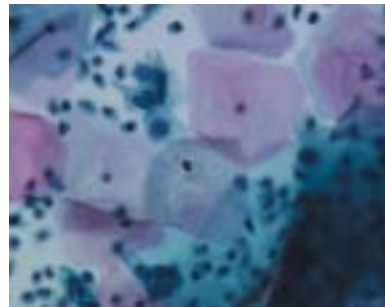
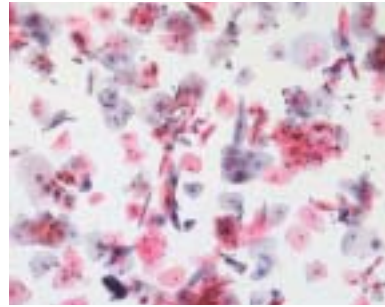
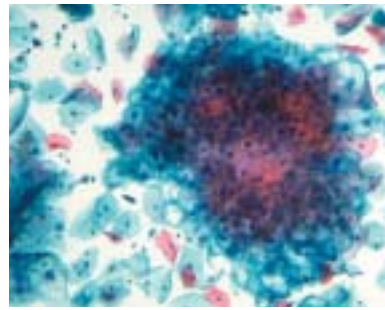
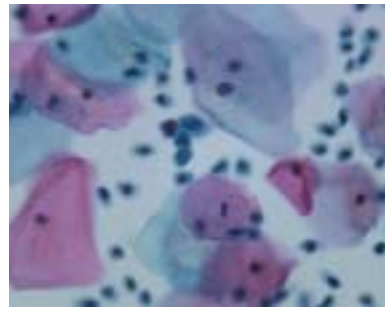
- Offers high specimen throughput.
- Provides the flexibility to configure as a single or dual staining track.
- Dual staining track allows two different time-synchronized staining protocols to be run simultaneously, i.e. gynec and non-gynec.
- Logical user interface provides easy access to instrument functions.
- Optional accessories are available for batch loading and unloading of racks.
- Features integrated fume extraction system.
- Economical water flow control
- Slide rack design significantly reduces reagent carryover.
- Racks are compatible for use on the Leica CV5030 for efficient, convenient coverslipping.



In its standard set-up, the Leica ST4040 linear staining system comes complete with one, 27-station staining track including reagent and water stations. 5 of these stations can be used for loading and another 5 for unloading.



Leica ST4040 linear staining system with dual staining track, loading and unloading station.



simply  
fast!

# New Leica DM Microscopes

## Designed to adapt to the individual user's daily routines

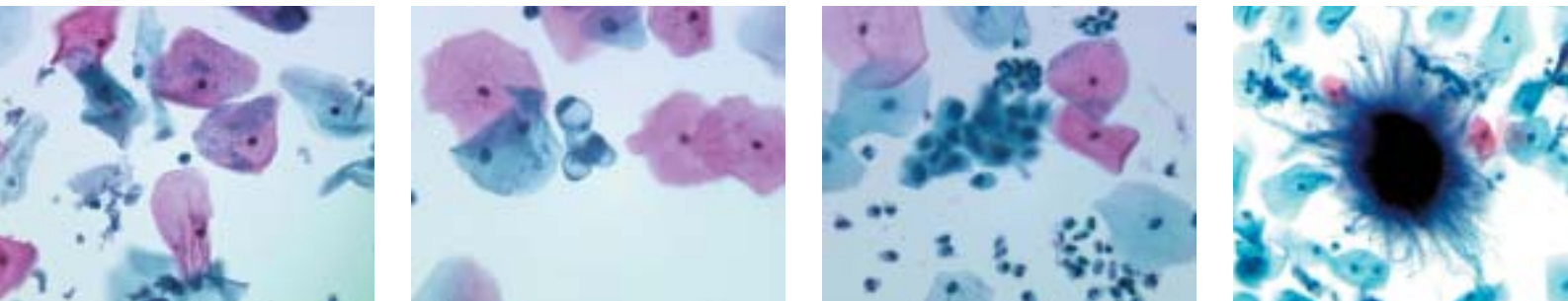
With the new Leica DM Microscopes, Leica Microsystems introduces a series of microscopes that represent the best in their class. Leica's product development team has turned many innovative ideas into reality to create a microscope that optimally adapts to the physique and workflow of the user. This ensures that work at the microscope will not only be efficient, but also comfortable. All Leica DM Microscopes are completely adjustable with just a few hand movements to adapt to individual ergonomic characteristics and working methods. In this way, effortless work combines with high-performance, and the user's needs are taken into account down to the smallest detail. This is what makes the new Leica DM Series one of the most ergonomic microscope lines on the market today – and your first choice if you value fatigue-free work; fast, reliable results; and excellent cost-effectiveness – the benefits of a microscope tailored to the individual user's routines.

The new Leica DM Microscopes are designed for biological, medical, and clinical laboratories and are specifically configured for individual applications.

- The Leica DM1000 satisfies all requirements for ergonomic use as well as optical brilliance, and is ideal for clinical laboratory applications, e.g. in cytology laboratories.
- The Leica DM2000 offers a sophisticated focus mechanism with a choice of either 2-gear or 3-gear focusing, with torque adjustment and adjustable stage height stop.
- The Leica DM2500 (in addition to the above features) offers powerful 100W illumination and is particularly well-suited to the fields of histo/cyto-pathology and biomedical research, which require contrast methods such as Differential Interference Contrast (DIC).

Optionally, all three versions can be equipped with fluorescence contrast. The DM Microscope Series can be uniquely tailored to the specific laboratory application.

# optical brilliance!



# Leica Microsystems Technical Service:

We know exactly how important it is for your laboratory that the workflow is smooth and unimpaired. That is why we react to malfunctions using the best method there is: before they happen. We do everything we possibly can to make sure malfunctions simply do not occur. To this end, we have developed a comprehensive line of reliable programs:

## Built-in toughness

The user-friendly design of Leica instruments and their exceptional robustness ensure that you can always rely on our products – even for continuous use in the toughest conditions.

## Continuous optimization

We maintain an ongoing dialog with our customers and employees throughout the world. With the help of extensive evaluations of each product and detailed documentation, our goal is to eliminate malfunctions completely.

## Seamless documentation

For each of our products, we prepare detailed, easy-to-understand operating and service manuals. To supplement them, we also provide an information platform on the Internet, which provides the latest information and current updates.

The best instrument can fail once – even if it is made by Leica Microsystems. In this very unlikely event, an experienced service team is available to help you get back to work quickly and dependably.

## Professional training

Regular training sessions ensure that our engineers have the skills to service all instruments professionally and to correct any malfunctions immediately and reliably.

## Quick onsite support

If you need a technician on site, our service personnel will be at your door in very little time. With state-of-the-art diagnostic technologies and vast experience at their disposal, they will provide you with help that is quick and straightforward. Ingenious tools simplify direct identification of spare parts.

## Direct support via hotline

A hotline lets you reach our employees directly in case of malfunction. In addition, Leica employees on site can call Leica Microsystems headquarters in Nussloch, Germany, to find the solution with the help of experienced specialists of the particular product area.



# professional and reliable!