



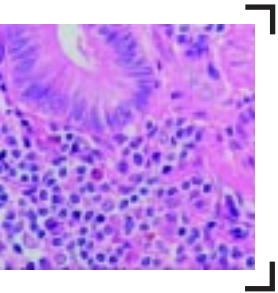
# Leica ST5020

Multistainer and

# Leica CV5030

Glass Coverslipper

# Leica ST5020 Multistainer ... with unmatched flexibility for better results



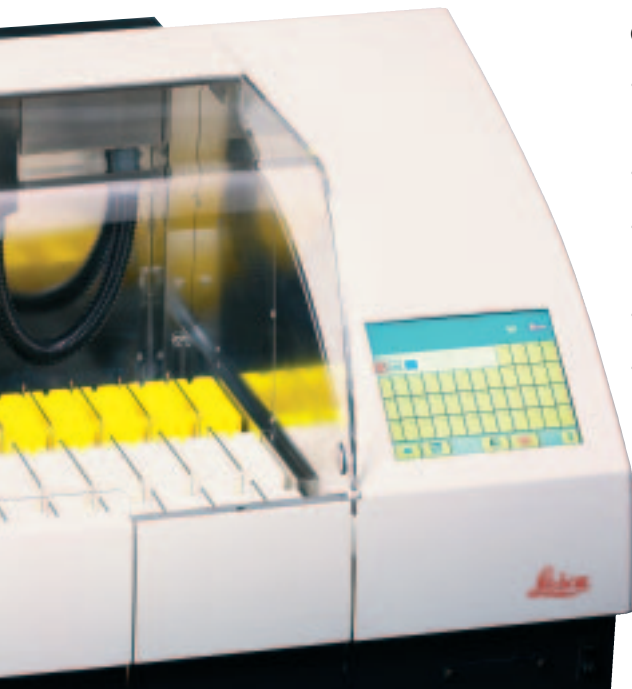
The Leica ST5020 Multistainer with a new level of flexibility to achieve perfect staining results is the instrument of choice for modern histology and cytology laboratories.

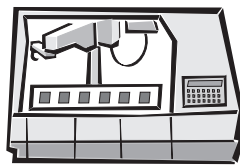
Based on a modular design principle, the Leica ST5020 Multistainer can be easily set up to meet individual laboratory needs. Both routine and special staining protocols can be performed alone or in combination to produce consistent and high-quality staining results.

Programs can be started automatically with the innovative CodeRack™ based on a color code, which significantly reduces potential user errors.

#### **Smart software features optimize staining quality and provide an easy-to-use interface:**

- Real-time process representation on a color touch-screen
- Fast and direct data entry and retrieval
- Multilingual software with graphical user interface
- Context-sensitive on-line help
- Simple and effective parameter settings





The innovative and patented robotic arm moves the slides through the staining cabinet precisely according to the staining protocol. It is possible to process up to 12 racks simultaneously with **multiple staining applications**.

Racks are inserted and removed through an **ergonomic 2-drawer system**. The drawer capacity can be customized to provide either increased staining flexibility or access for up to 4 racks at any one time.



**Data entry and retrieval are particularly easy** with the large, solvent-resistant color touch-screen. The instrument and **staining process can be closely monitored** using the graphical process representation on screen. The new Reagent Management System (RMS) checks the use of reagents and helps to improve staining quality and economy.



Racks are **automatically assigned** to the correct staining protocol by means of a patented CodeRack™ technology based on a transponder and color-code system.



Optional oven modules with up to 4 racks allow **slide drying and dewaxing** for completely automated slide processing. A unique, multiple-valve design activates water flow only when it is really needed - thus reducing **water consumption** significantly.



An optional special staining module with 2 heated reagent stations and an accessory kit enables the **automation of common special staining protocols**.



# Leica CV5030 Glass Coverslipper



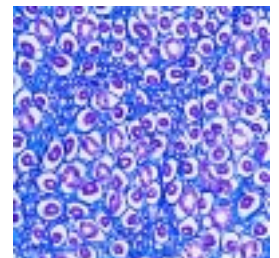
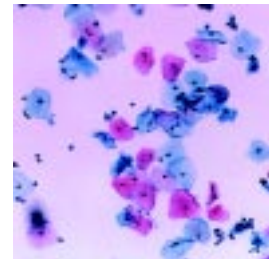
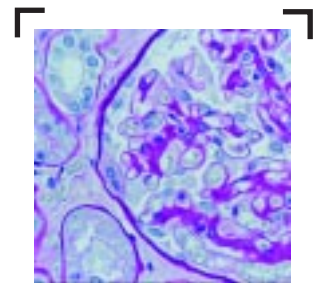
## A glass coverslipper flexible enough to meet the needs of your laboratory ?

The Leica CV5030 Glass Coverslipper easily adapts to the specific requirements of varying samples such as histology sections, cytology smears, and monolayers. Accepting staining racks of virtually all routine slide stainers, the CV5030 easily adapts to your current and future laboratory requirements.

The CV5030 economically produces slides of superior optical quality and reliable long-term storage. The acceptance of common brands of mounting media and different sizes of coverglass allows the CV5030 to conform to your current laboratory environment. The simple operation and advanced engineering of the CV5030 will provide years of reliable use.

The Leica CV5030 Glass Coverslipper in your laboratory today prepares you for the laboratory of tomorrow. Capable of being integrated with the Leica ST5020 Multistainer, the Leica CV5030 will eliminate the traditionally manual process of transferring stained slides from stainer to coverslipper, and create a truly consolidated workstation.

**The glass coverslipper that adapts to the needs of your laboratory... FINALLY !**





# ... with the ability to adapt



The easy-to-use control panel enables settings to be customized to meet your specific laboratory requirements. Simply select the ideal set-up for different samples.



The coverslip station accepts different sizes of coverglass and automatically discards broken ones. Samples are safely and permanently covered to assure consistent, high quality coverslipping.



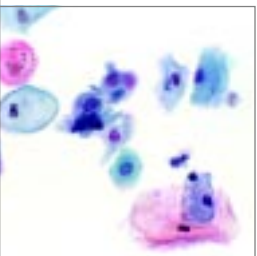
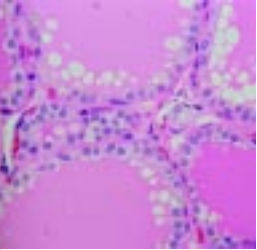
The dispenser parking station stores the nozzle in reagent and safely maintains mountant dispensing integrity.



The load vessel accepts up to 60 slides and can be filled with reagent, which increases throughput and allows wet or dry coverslipping



The Leica ST5020 Multistainer and the CV5030 Coverslipper in combination ...the first **truly** integrated, fully automated staining/coverslipping workstation!

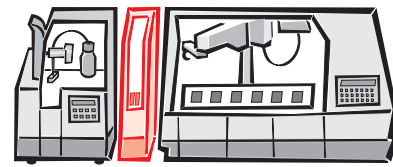


...see how it works !



**Recommended system components for use of CD-ROM:**  
 Processor: Intel Pentium 3 or equivalent processor  
 RAM memory: 128 MB  
 Color monitor: Resolution of 800 x 600 pixels with a color depth of 16.7 million colors (24-bit) 24 speed or faster  
 CD-ROM drive: Soundcard + loudspeakers  
 Operating system: Windows 95 / 98 / 2000 / xp  
 Additional drivers: Quicktime for Windows 4.0 (Quicktime 5.0 on CD-ROM)

**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.

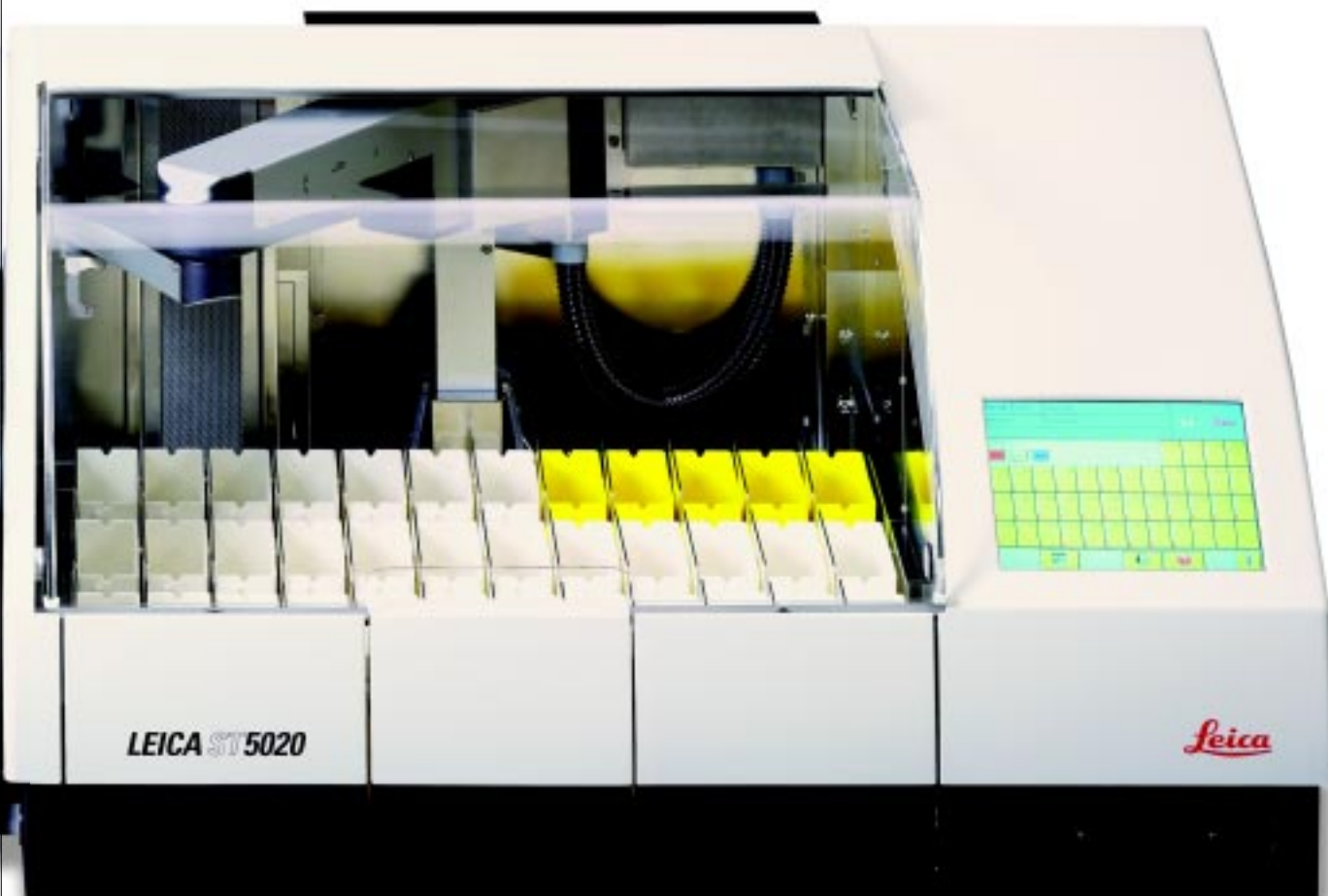


**Experience a new level of automation in staining and coverslipping.**

For the first time ever a routine stainer and glass coverslipper can be combined to set up an integrated, fully automated staining / coverslipping workstation. Together, the Leica ST5020 Multistainer and the CV5030 Coverslipper create a highly flexible system featuring walk-away convenience.

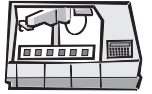
After a staining process is finished, the slide racks are transported by the innovative robotic arm from the stainer into the coverslipper.

**The manual handling of racks between stainer and coverslipper is no longer necessary.**



# Technical Specifications

## Leica ST5020 Multistainer



Instrument type:	Automated Stainer
Sample types:	Histology and Cytology specimens
Throughput:	Depending on protocol, loading schedule and instrument set-up, up to 12 racks in parallel
Number of programs:	Max. 50 with up to 40 steps each
Incubation times:	Up to 59 min., 59 sec. per step
Number of stations:	Max. 40
Staining stations:	Max. 34
Container volume:	450 ml
Water stations:	Max. 6 (including DI water feed)
Oven stations:	Max. 4, optional
Oven temperatures:	40 °C to 70 °C (104 °F to 158 °F)
Load stations:	Max. 4, custom set-up
Unload stations:	Max. 4, custom set-up

Fume handling:	Activated carbon filter and fume extraction hose system
Supply voltage:	100-240 VAC / 50-60 Hz
Dimensions (L x D x H) (mm)	1060 x 720 (550 from rear end to front feet) x 550
(in.)	42 x 28 (22 from rear end to front feet) x 22
Dry weight:	approx. 95 kg approx. 209 lbs

Additional features include graphical user interface with color touch-screen, graphical process representation with detailed rack and station information, Reagent Management System, automated program assignment and start with CodeRack™ technology, data logging, on-line help, Printer port, optional special stain kit (incl. heated staining stations plus accessories), optional transfer module for integration with CV5030 Coverslipper.

Designed and manufactured according to CE and CSA regulations.

## Leica CV5030 Glass Coverslipper



Instrument type:	Automated Glass Coverslipper
Sample types:	Histology sections, Cytology smears, Monolayer preparations
Throughput:	approx. 400 slides/hour (approx. 9 sec./slide)
Coverslip sizes:	22-24 x 40-60 mm
Coverslip magazine capacity:	120-160 coverslips (depending on size)
Mounting media:	Commercially available types accepted
Mounting media volume:	Individual setting based on volume, type and coverslip size
Mounting media bottle volume:	250 ml
Input racks:	Most commercially available types accepted (up to 60 slides)
Output racks:	20 or 30 slide capacity (up to 60 slides)

Fume handling:	Activated carbon filter and fume extraction hose system
Supply voltage:	100-250 VAC / 50-60 Hz
Dimensions (L x D x H) (mm)	420 x 600 x 550
(in.)	16.5 x 24 x 22
Dry weight:	approx. 57 kg approx. 125 lbs

Additional features include optional wet or dry coverslipping, dispenser nozzle protection through wet parking position, memory function for up to four custom settings, Multisize™ coverslip magazine, glass sensor for automated handling of broken coverslips, optional transfer module for integration with ST5020 Multistainer. Designed and manufactured according to CE and CSA regulations.

## Leica Multistainer Workstation™



Instrument type:	Automated Stainer (ST5020) and Coverslipper (CV5030), modular, connected through Leica TS5025 Transfer Station
Sample types:	Histology and Cytology specimens
Fume handling:	Activated carbon filter and fume extraction hose system
Supply voltage:	See individual instruments (TS5025 Transfer Station is fully dependent on CV5030, electrical and control)

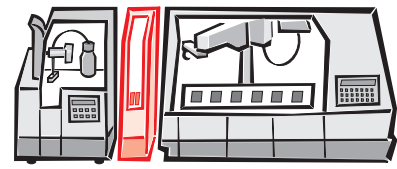
Dimensions (L x D x H) (mm)	1620 x 720 x 550
(in.)	64 x 28 x 22
Dry weight:	approx. 164 kg approx. 361 lbs.

For details on individual module characteristics please refer to the instrument data information.

Up-to-date development, production and quality control procedures certified under DIN EN ISO 9001 ensure the highest quality and reliability.

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





# Leica Multistainer Workstation™



# 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.

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 coverslippers.

## ● 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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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 1 473 285 85	Fax +33 1 473 285 86
Germany:	Bensheim	Tel. +49 6251 136 0	Fax +49 6251 136 155
Italy:	Milan	Tel. +39 0257 486.1	Fax +39 0257 40 3273
Japan:	Tokyo	Tel. +81 3 5435 9600	Fax +81 3 5435 9615
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/Ilinois	Tel. +1 847 405 0123	Fax +1 847 405 0164

and representatives of Leica Microsystems  
in more than 100 countries.

 [www.histo-solutions.com](http://www.histo-solutions.com)

Leica Microsystems Inc.	Telephone	847-405-0123
2345 Waukegan Road	Toll Free	800-248-0123
Bannockburn, IL 60015	Fax	847-405-0164
	In Canada call	800-205-3422

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