



# Leica ST 4040

High Throughput

Linear Staining System

*Leica*  
MICROSYSTEMS

# Leica presents...



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.



To prevent evaporative reagent loss when not in operation, the staining track can be covered with the included reagent lids.



# ...The first flexible linear staining system with double the throughput capacity

The Leica ST 4040 was designed to meet the current and future needs of today's high throughput laboratories. The modular design system allows multiple instrument configurations to match the unique specimen volume and workflow of your Histology or Cytology laboratory.

## High throughput and flexibility

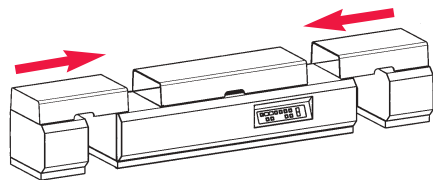
- Specimen throughput can be doubled with the addition of a second, identical staining track next to the first track supplied with the instrument. This allows simultaneous staining of two, 20 slide capacity racks.
- Two separate, time synchronized staining protocols can be run simultaneously on the Leica ST 4040. Imagine running your H&E slides at the same time as your PAP slides on the same instrument.
- The dual staining track allows non time synchronized protocols to be run consecutively without the time consuming process of removing reagents.
- The small instrument footprint provides maximum throughput capacity without taking up valuable bench space.

## Improving the laboratory environment

- Reduce technician exposure to hazardous reagent fumes. The Leica ST 4040 can be outfitted with either a charcoal fume control filter or a fume exhaust hose for direct venting to a fume hood.
- The three section instrument cover further reduces fume exposure by allowing technicians to only open the instrument in the zone they are working in, slide rack loading, reagent management, or slide rack removal.
- Water usage is conserved with the automated water flow control. Wash station water flow is only operational when slide racks are processing.

## Optional loading and unloading stations

Optional loading and unloading stations are available to increase capacity and assist in workflow management by providing even more reagent capacity and allowing batch loading and unloading of racks.



## Ergonomic design

The low height and shallow depth of the instrument allows easier access to reagent containers and slide racks. This new design eliminates unnecessary high lift over.



Continuous agitation of the slide racks during processing enhances reagent penetration and ensures the highest quality staining result. The Leica ST 4040 slide rack design significantly reduces reagent carry-over.

# ...and the ability to batch load



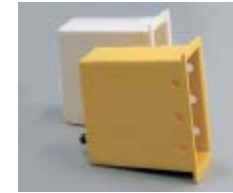
### User convenience

A special storage container keeps slide rack carriers conveniently located next to the slide rack loading zone.



The clear and logical user interface provides easy access to instrument functions.

Two separate staining protocols can be programmed for quick operation.



The reagent and wash containers are resistant to staining reagents and safe for machine washing.



Slide rack carriers are available to accommodate slide racks from most commercially available coverslippers.

### Technical data

Nominal supply voltage:	100 - 240 V AC ± 10 %
Nominal frequency:	50/60 Hz
Maximum power draw:	150 VA
Working temperature range:	+10 °C to + 35 °C
Relative air humidity:	maximum 80 %, non-condensing

### Dimensions and weights

Basic instrument (W x H x D):	1435 x 444 x 436 mm
Basic instrument with optional loading and unloading station:	1969 x 444 x 436 mm
Optional loading and unloading station:	267 x 444 x 392 mm
Working height:	318 mm
Basic instrument with accessories:	73 kg
Optional loading station:	16 kg
Optional unloading station:	14 kg

Technical specification subject to change.

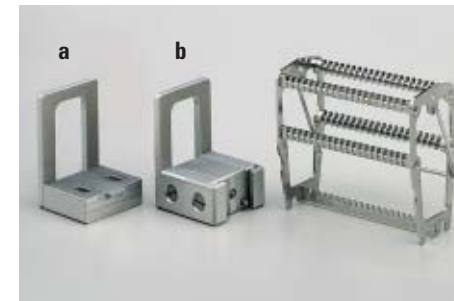
# and unload



### The system solution for staining and coverslipping

The Leica ST 4040 combined with the Leica CV 5000 coverslipper provides the ideal system solution for high throughput slide processing. Available slide rack adaptors allow the use of the 20 slide rack in the Leica CV 5000.

- a) CV 5000 adapter for permanent installation, 20 capacity slide rack
- b) Individual slide rack adapter. Used when running Leica 20 and 30 slide capacity racks.



### Workflow Convenience

Optimize instrument placement and laboratory workflow. Load slides on the left or right hand side of the instrument. The Leica ST 4040 allows you to decide which set-up best suits your laboratory.

# Leica Microsystems – the brand for outstanding products

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

Leica, the leading brand for microscopes and scientific instruments, has grown from five brand names with a long tradition: Wild, Leitz, Reichert, Jung and Cambridge Instruments. Leica symbolizes both tradition and innovation.

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

Australia:	North Ryde/NSW	Phone +61 2 9886 3000	Fax +61 2 9888 7526
Austria:	Vienna	Phone +43 1 495 44 160	Fax +43 1 495 44 1630
Canada:	Willowdale/Ontario	Phone +1 416 497 2860	Fax +1 416 497 8516
Denmark:	Herlev	Phone +45 4454 0101	Fax +45 4454 0111
Finland:	Espoo	Phone +358 9 6153 555	Fax +358 9 5022 398
France:	Rueil-Malmaison Cedex	Phone +33 1 473 285 85	Fax +33 1 473 285 98
Germany:	Bensheim	Phone +49 6251 136 0	Fax +49 6251 136 155
Italy:	Milan	Phone +39 0257 40 1955	Fax +39 0257 40 3273
Japan:	Tokyo	Phone +81 3 3292 9833	Fax +81 3 3292 9777
Korea:	Seoul	Phone +82 25 146 543	Fax +82 25 146 548
Netherlands:	Rijswijk	Phone +31 70 3198999	Fax +31 70 3905659
Norway:	Oslo	Phone +47 2279 0400	Fax +47 2279 0429
Portugal:	Lisbon	Phone +35 1 381 47 60	Fax +351 1 387 46 68
Republic of China:	Hong Kong	Phone +852 2 564 6699	Fax +852 2 564 4163
Singapore:		Phone +65 779 7823	Fax +65 773 0628
Spain:	Barcelona	Phone +34 93 494 9530	Fax +34 93 494 9532
Sweden:	Sollentuna	Phone +46 8 6254 545	Fax +46 8 6254 510
Switzerland:	Glattbrugg	Phone +41 1 809 3333	Fax +41 1 810 7937
United Kingdom:	Milton Keynes	Phone +44 1908 246246	Fax +44 1908 609992
USA:	Deerfield/Illinois	Phone +1 847 405 0123	Fax +1 847 405 0147

and representatives of Leica  
in more than 100 countries.

## Microscopes

Compound  
Stereo  
Surgical  
Laser Scanning  
Photomicrography  
Video Microscopy  
Measuring Microscopes

## Advanced Systems

Image Analysis  
Spectral Photometry  
Automated Inspection Stations  
Measurement Systems  
Electron Beam Lithography

## Laboratory equipment

Tissue Processors  
Embedding Systems  
Routine- & Immunostaining  
Coverslippers  
Refractometers

## Microtomes

Disc, Sliding & Rotary  
Cryostats  
Ultramicrotomes  
EM Sample Preparation

Leica Microsystems Nussloch GmbH  
Heidelberger Strasse 17-19  
D-69226 Nussloch

Phone (06224) 143-0  
Fax (06224) 143 200  
<http://www.leica.com/specimen-prep>

**Leica**  
MICROSYSTEMS