



SLIDE STAINERS AND COVERSLIPPERS

Slide Stainers and Coverslippers

Stain and coverslip in one pass, from 4-minute frozen sections to 720 slides per hour.

Slide stainers and coverslippers automate the last stage of histology, moving sections through reagent baths and then sealing them under glass without operator handling. Torontech supplies four ToronSSC™ models covering routine H&E, rapid frozen sections, and Papanicolaou work. Each finishes the slide start to end, so pathology labs skip the manual transfer between two machines. Throughput runs from 160 to 720 slides per hour.

Hospital pathology departments, reference laboratories, and research groups use these systems to hold staining quality steady across shifts. Adaptive program control adjusts dwell time as reagents age, and glass coverslipping keeps slides clear enough for microscopy and whole slide scanning. Choose by station count, cycle time, and bench space. All four run standard cover glass and common mounting media.

Applications

Automated staining and coverslipping supports both the routine workload and the time-sensitive cases that sit on top of it.

- Hospital Pathology: routine H&E on surgical and biopsy sections, with programmed dwell times that keep nuclear detail consistent between operators and shifts.
- Intraoperative Consultation: rapid frozen section staining while the patient is still in surgery, where the histology step decides how fast the pathologist can report.
- Cytology Screening: polychrome Papanicolaou staining of gynecologic and non-gynecologic preparations for clear nuclear and cytoplasmic contrast.
- Reference and Contract Laboratories: continuous-load operation across a full shift so slides keep moving instead of pooling between staining and covering.
- Digital Pathology: even mountant film with no bubbles or overflow, which lowers the rate of tiles rejected by whole slide scanners.

- Teaching and Research: stored programs let students and investigators repeat standardized protocols alongside special stain methods.

Slide Stainer and Coverslipper Range

Four models cover the range from a compact frozen section unit to a two-module production line. The table compares them on the three specs buyers weigh first.

Model	Stations	Throughput	Description
Automatic Frozen Section Stainer & Coverslipper (ToronSSC™ 600)	24	4-minute stain and cover cycle; 800 slides/hr covering	Built for intraoperative turnaround, finishing a frozen section start to end in four minutes. Three working modes let it stain and cover, stain only, or cover only, so it can also finish slides from a separate stainer. Fits satellite labs near the operating suite.
Compact Slide Stainer & Coverslipper (ToronSSC™ 700)	27	≥160 slides/hr staining; 800 slides/hr covering	The entry point into integrated staining and coverslipping, under 1 m of bench. Suits departments that want full slide finishing without giving up space to two separate instruments.
Integrated Slide Stainer and Coverslipper (ToronSSC™ 800)	28	800 slides/hr covering	Adds an oven pre-treatment tank and on-board storage for 100 finished slides, so a batch can run overnight and be collected the next morning. Handles H&E, frozen, Pap, and special stains on parallel tank sets.
Slide Stainer and Coverslipper Workstation (ToronSSC™ 1000)	32	720 slides/hr staining; 800 slides/hr covering	A two-module line that runs connected or as separate instruments. Staining and covering rates are matched so slides never queue between stages. Buy one module now and add the second later.

How to Choose the Right Slide Stainer and Coverslipper

- For intraoperative frozen sections: choose the ToronSSC™ 600 for its four-minute cycle and small footprint near the surgical floor.
- For a first move away from manual coverslipping: choose the ToronSSC™ 700, the most compact integrated option.
- For unattended overnight runs: choose the ToronSSC™ 800, where 100-slide on-board storage removes the need for someone to unload.

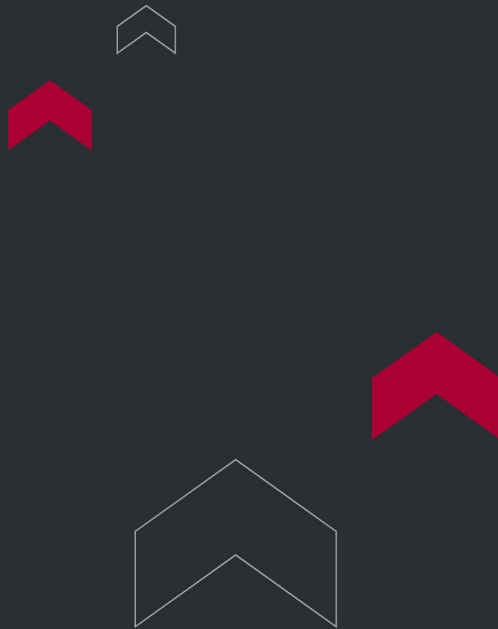
- For high daily block counts: choose the ToronSSC™ 1000 and its 720 slides per hour with 32 freely assignable stations.
- If you already own a stainer: the ToronSSC™ 1000 coverslipping module and the ToronSSC™ 600 in covering-only mode both work as standalone coverslippers.
- If bench space is the constraint: the 600, 700, and 800 all stay under 1 m in length.

Why Choose Torontech for Your Slide Stainer and Coverslipper

Torontech supplies testing and measurement equipment to laboratories and manufacturers across North America and worldwide, backed by responsive technical support and calibration service. The slide stainer and coverslipper range is built for reliable, standards-driven results, so you can standardize on one supplier as your testing needs grow. Our team helps you match the right configuration to your samples, applicable standards, and throughput, then supports you through installation and beyond.

Request a Quote

Tell us your daily slide volume, the protocols you run, and how much bench space you have, and we will recommend the right model. [Contact the Torontech team](#) for pricing and lead times.



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