



FULLY AUTOMATIC SLIDE STAINER & COVERSLIPPER

Fully Automatic Slide Stainer & Coverslipper - ToronTSS™ 2700

Fully Automatic Slide Stainer & Coverslipper ToronTSS™ 2700 is a fully automatic Slide Stainer and coverslipper designed for high-throughput staining and sealing in routine histology and pathology workflows. ToronTSS™ 2700 combines automated staining, coverslipping, reagent monitoring, and rack handling in one platform, with throughput rated at 400 slides per hour or higher.

This system is built for laboratories that need stable automation, reduced manual handling, and tighter control over reagent use. ToronTSS™ 2700 built for intelligent simulation technology for reagent management, low-level detection for reagent tanks, overflow alarm with automatic water shutoff, dual-rail arm support, and automated single-slide program recognition when the slide rack is inserted.

ToronTSS™ 2700 is a strong fit for hospital pathology labs, histology labs, and larger research environments that want a more efficient tissue slide stainer workflow with integrated coverslipping and higher daily slide capacity.

APPLICATIONS

Fully Automatic Slide Stainer & Coverslipper - ToronTSS™ 2700

Applications

- Histology and pathology laboratories: this Slide Stainer is suitable for routine tissue-slide staining and coverslipping in pathology and histology workflows where consistent reagent timing, automated rack handling, and efficient slide output are important. ToronTSS™ 2700 is a fully automatic slide stainer and coverslipper for high-volume processing.
- Hospital and clinical laboratory workflows: ToronTSS™ 2700 fits hospital laboratories that need repeatable staining with less manual intervention. Automated rack assignment, simultaneous manual staining simulation, and integrated sealing functions help support steady daily throughput.

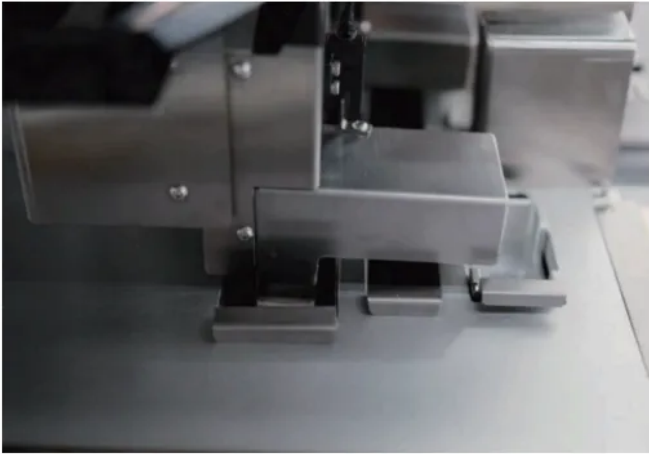
- Research and high-volume slide preparation: This Fully Automatic Slide Stainer & Coverslipper also works well in research and larger laboratory environments where multiple reagent stations, automated washing, and integrated coverslipping can help standardize slide-preparation workflows.



FEATURES

Fully Automatic Slide Stainer & Coverslipper - ToronTSS™ 2700 Key Features

- Fully automatic staining and coverslipping: ToronTSS™ 2700 combines staining and coverslipping in one automated platform. This helps reduce manual handling between post-stain and final slide-finishing steps.
- Intelligent reagent management: the system uses intelligent simulation technology for reagent management and cost control. This supports more organized reagent use in higher-volume workflows.
- Low-level and overflow monitoring: automatic low-level detection for reagent tanks plus an overflow alarm with automatic water shutoff. These features help support safer and more stable routine operation.
- Automatic program recognition for inserted racks: the unit can automatically identify inserted slide racks and assign them to the correct staining programs. This helps reduce manual setup errors and lowers the chance of misassigned runs.
- Dual-rail robotic arm support: a dual-rail robotic arm system is used for smoother, more stable motion during automated slide handling with stable magnetic robotic arm performance with pressure control.
- Automatic nozzle soaking and cleaning: the dispensing nozzles support automatic soaking and cleaning, which helps maintain more stable sealing performance and reduce manual maintenance tasks.
- Even sealing pressure: motorized rotation is used to maintain even sealing pressure during coverslipping. This supports more consistent coverslip applications.
- Automatic rack oscillation: the staining rack oscillates automatically during operation to support more thorough and efficient staining.
- Closed reagent label reading and writing: the system supports reading and writing of closed reagent electronic labels, which can help with reagent tracking and workflow organization.
- High throughput: throughput of at least 400 slides per hour, making the system suitable for higher-volume staining and sealing workflows.



THEORY & METHOD

Theory and Method

A Fully Automatic Slide Stainer & Coverslipper automates the movement of slide racks through a programmed sequence of reagent stations, wash stations, and drying or coverslipping steps. Each slide rack is processed according to a defined

method so staining consistency is less dependent on manual transfer between tanks.

ToronTSS™ 2700 follows that principle with 27 working points, including reagent tanks, heating tanks, flow-water tanks, drying tanks, and loading or unloading positions. ToronTSS™ 2700 is an automatic single-slide staining program recognition, automatic oscillation of the staining rack for more thorough staining, automated soaking and cleaning of dispensing nozzles, and automatic opening or closing of the lifting arm during sealing.

The system integrates coverslipping into the workflow through motorized rotation for even sealing pressure and automatic collection of sealing waste liquid, which helps reduce manual finishing steps after staining.

TECHNICAL SPECIFICATIONS

Fully Automatic Slide Stainer & Coverslipper - ToronTSS™ 2700 Technical Specification

Parameter	ToronTSS™ 2700
Product type	Fully Automatic Slide Stainer & Coverslipper
Slide rack capacity	10 slides
Total working points	27
Reagent tanks	18
Reagent heating tanks	2
Flow water tanks	3
Drying tanks	2
Motorized loading tanks	1 each

Parameter	ToronTSS™ 2700
Motorized unloading tanks	1 each
Max magnetic suction	4 kg × 2
Machine weight	150 kg
Machine size	930 mm (1250 mm with screen) × 540 × 530 mm
Input voltage	AC 220 V (110V is also available)
Input current	3.4 A
Output voltage	DC 24 V
Output current	14.6 A
Operating temperature	10°C to 50°C
Operating humidity	10% to 50%
Installation location	Avoid direct sunlight; place on a flat surface or flat working table



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