



HIGH CAPACITY TISSUE SLIDE STAINER

High Capacity Tissue Slide Stainer - ToronTSS™ 1000

High Capacity Tissue Slide Stainer ToronTSS™ 1000 is an automatic Slide Stainer designed for continuous batch staining in routine histology and pathology workflows. ToronTSS™ 1000 is built to run multiple staining racks at the same time, helping labs manage larger slide volumes with more consistent timing and less manual handling.

This system is suited for laboratories that need automated multi-step staining with touchscreen control, programmable operation, and stable mechanical movement. ToronTSS™ 1000 built with color LCD touchscreen operation, automatic location memory, overflow protection, and a drying cylinder as part of the platform.

ToronTSS™ 1000 is a practical fit for hospital pathology labs, histology labs, academic departments, and research environments that want a more efficient Slide Stainer workflow for routine staining procedures.

APPLICATIONS

High Capacity Tissue Slide Stainer - ToronTSS™ 1000 Applications

- Histology and pathology laboratories: this Slide Stainer is suitable for routine tissue-slide staining in pathology and histology workflows where sections move through multiple reagent steps before microscopic review. ToronTSS™ 1000 specifically for continuous batch dyeing and larger workloads.
- Hospital and clinical laboratory workflows: ToronTSS™ 1000 fits hospital laboratories that need repeatable staining with reduced manual transfer between reagent stations. Multiple staining racks can run simultaneously, which supports steady daily throughput.
- Teaching and academic laboratories: the touchscreen setup, stored procedures, and automated positioning functions also make this High Capacity Tissue Slide Stainer useful for medical colleges and teaching labs that want more standardized slide-preparation workflows.

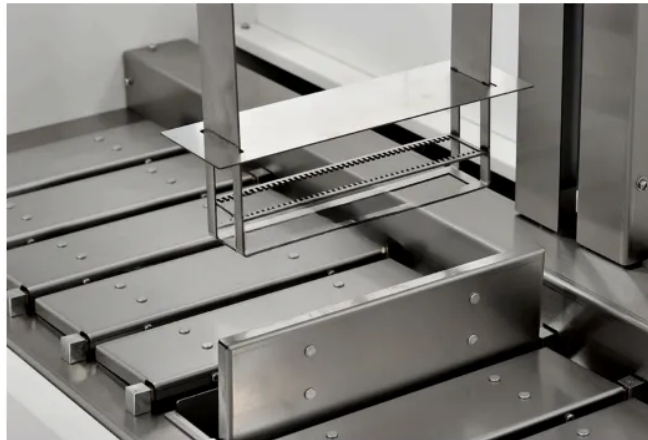
- Research laboratories: the system also works well in research environments where programmable multi-step staining and consistent rack movement are important for repeatable tissue-slide preparation.



FEATURES

High Capacity Tissue Slide Stainer - ToronTSS™ 1000 Key Features

- Continuous batch staining: ToronTSS™ 1000 allows multiple staining racks to run simultaneously for continuous batch dyeing. This supports higher throughput for routine slide staining.
- Color LCD touchscreen control: the unit uses a color LCD touchscreen so users can modify parameters directly on the display. This supports easier setup and operation.
- Stored operating procedures: six common operating procedures can be stored. This helps labs run repeatable staining methods with less manual setup.
- Automatic location memory: the system automatically finds the starting position and memorizes each run. Each cylinder uses a separate positioning method to improve positioning accuracy.
- Safety alarm and anti-stuck protection: a safety alarm system and anti-stuck cylinder function are included. These features help protect operation if rack movement reaches the final cylinder while another rack has not yet been removed.
- Ion purification support: the ion purification function helps address harmful volatile gases from commonly used reagents such as xylene and hydrocarbons.
- Overflow protection: the system includes overflow protection with automatic water inlet and drainage.
- Precision linear-guide movement: the running parts use bearing linear guides for high precision, low resistance, stable motion, and long-term wear resistance.



THEORY & METHOD

Theory and Method

A High Capacity Tissue Slide Stainer automates the movement of slide racks through a defined sequence of reagent stations. Each station is assigned a time value, and the rack advances step by step through staining, washing, differentiation,

dehydration, clearing, or related programmed processes until the cycle is complete.

ToronTSS™ 1000 follows that method with multiple staining racks running at the same time for continuous batch processing. The system uses touchscreen parameter setting, automatic location memory, and separate positioning for each cylinder to improve operating accuracy.

ToronTSS™ 1000 has a drying cylinder, overflow protection with automatic water inlet and drainage, and linear-guide running parts for stable movement and long-term reliability.

TECHNICAL SPECIFICATIONS

High Capacity Tissue Slide Stainer - ToronTSS™ 1000 Technical Specification

Parameter	ToronTSS™ 1000
Product type	High Capacity Tissue Slide Stainer / Slide Stainer
Number of cylinders	18
Cylinder arrangement	Includes 1 cleaning cylinder and 1 drying cylinder
Capacity	1000 mL
Slide rack capacity	Single basket: 47 slides; double baskets: 94 slides
Operation mode	Running multiple baskets continuously
Set time per cylinder	1 second to 99 minutes 59 seconds
Set temperature	0°C to 99°C
Storable programs	6 sets

Parameter	ToronTSS™ 1000
Basket rise and tremble time	0 to 10 times
Dimensions	1400 × 500 × 550 mm
Weight	135 kg



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