



TORONTECH

STANDARD TISSUE CASSETTE PRINTER



Standard Tissue Cassette Printer — ToronPath™ TC

ToronPath™ TC is a versatile, compact tissue cassette printer engineered to meet the cassette labeling needs of small-to-medium pathology and histology laboratories. Available in two technology variants — thermal printing (ToronPath™ TC) and infrared laser printing (ToronPath™ TC-i) — this cassette printer pathology solution offers laboratories the flexibility to select the printing method that best aligns with their workflow, throughput, and budget requirements.

Both variants deliver high-quality, chemically resistant cassette markings suitable for long-term archival. The ToronPath™ TC tissue cassette printer features an elegant, space-saving design with an instrument width of ≤ 110 mm — making it one of the most compact cassette printers available for bench-constrained laboratory environments. A 7-inch capacitive touchscreen, Wi-Fi connectivity, and a U-shaped deflector for easy cassette retrieval round out a feature set designed for ease of use and operational efficiency.

APPLICATIONS

Standard Tissue Cassette Printer — ToronPath™ TC Applications

The ToronPath™ TC tissue cassette printer is suited for:

- Small and medium anatomic pathology and histology laboratories with moderate cassette throughput requirements
- Point-of-care and satellite pathology locations where compact footprint and wireless connectivity are priorities
- Surgical pathology grossing stations requiring on-demand, real-time cassette labeling
- Veterinary pathology and specialty diagnostic laboratories
- Pathology training programs and academic departments requiring a reliable, easy-to-operate cassette labeling solution
- Laboratories transitioning from handwritten cassette labeling to a digital LIS/HIS-integrated cassette printer pathology workflow



FEATURES

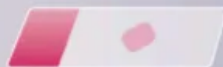
Standard Tissue Cassette Printer — ToronPath™ TC Key Features

- Dual-technology platform: select thermal printing (300 dpi) or infrared laser printing (2,500 dpi) to match laboratory workflow and throughput requirements
- Ultra-compact design with instrument width of ≤ 110 mm — one of the narrowest footprints among tissue cassette printers available, significantly saving valuable bench space
- U-shaped deflector output design simplifies cassette retrieval after printing, reducing operator handling time and ergonomic strain
- 7-inch capacitive touchscreen interface for intuitive, responsive operation and print management
- Multi-mode data transmission via USB, Wi-Fi, Ethernet, and Serial ports, supporting both wired and wireless laboratory environments
- Free drag-and-drop print layout editor within the cassette printing area; supports multiple pre-configured templates for flexible cassette design
- Clearly prints text, alphanumeric characters, symbols, barcodes, and other identification data on tissue cassette surfaces
- Chemically resistant markings — imprints withstand exposure to xylene and alcohol, enabling long-term specimen preservation
- Output collection capacity of ≥ 5 cassettes per cycle; loading capacity of ≥ 6 slots
- Professional slide loading and output device compatibility for organized cassette processing
- Compatible with LIS, HIS, PIS, PACS, and other commonly used hospital and laboratory information systems
- Built-in operating system with standalone operation — no external computer or workstation required
- Stylish, exquisite instrument design reflecting both form and functionality in the modern pathology laboratory

Powerful Functionality

Specimen Slide Printing Function

Pre-sealed specimen slides can be printed directly



Reprint Function

If printing is unclear, slide can be printed again with reprint



Double Patients Number Printing Function

It supports two patients numbers in one slide, which meet the needs of information-based end-to-end management



Mini Thermal Printer

High-quality Printing

- Clear, high-contrast prints with 1s scan & recognition
- Supports standard & immunohistochemistry slides
- Capable of printing on various sizes of slides
- Fully compatible in printing on colored slides/tissue cassette, fully compatible



Environmentally Friendly

- Eco-friendly printing, dust & chemical odor-free
- Low noise for a comfortable working environment
- Advanced tech & materials for energy saving & emission reduction



Information Technology

■ Data Transmission

- Wi-Fi, USB, Bluetooth, Ethernet, Serial Interface, etc.

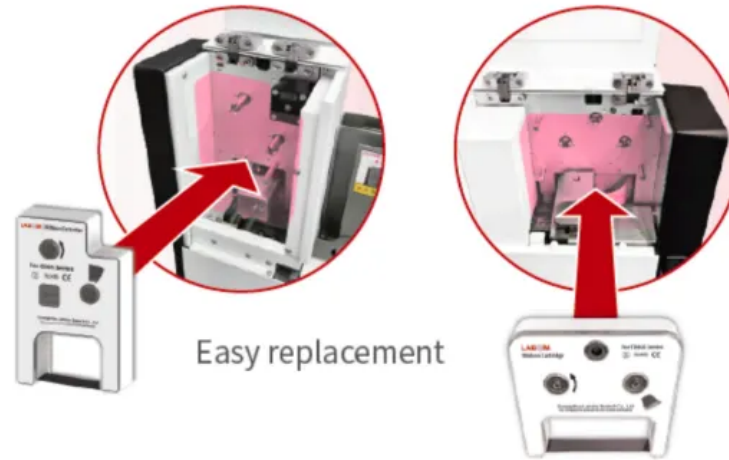
■ Diverse Information Transmission Capabilities

- Supports transmission protocols such as LIS/HIS/PIS/PACS
- Supports custom proprietary protocols



3-Second Ribbon Replacement

- Modular ribbon cartridge design
- 3-second rapid ribbon replacement



Smart & Small

- Width $\leq 110\text{mm}$

— Intelligent —



① Printer Owns Built-in Scanning Module

Scanning module
controlky software



② Innovative LED Strip Design

- Green** Normal operating status
- Yellow** Consumable is low supply
(glass slide, carbon ribbon, etc.)
- Red** Warning

THEORY & METHOD

Theory and Method

The ToronPath™ TC is available in two printing technology variants, each optimized for different laboratory priorities:

Thermal Printing Variant (ToronPath™ TC): The thermal variant uses direct thermal transfer technology to produce cassette markings. A precision thermal print head applies controlled heat to transfer a thermosensitive coating onto the cassette surface, producing high-contrast, durable markings. Thermal printing offers a proven, reliable, and cost-effective solution for

standard cassette labeling needs, with a print speed of approximately 5–7 seconds per cassette and a print resolution of 300 dpi.

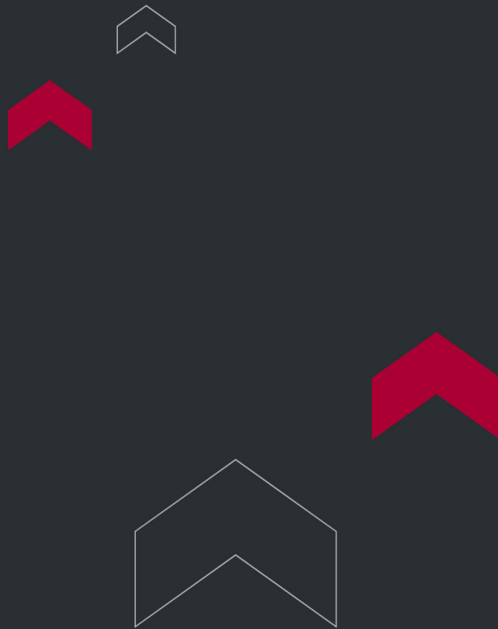
Infrared Laser Printing Variant (ToronPath™ TC-i): The infrared laser variant employs a focused infrared laser beam to permanently mark the cassette surface through thermal ablation. This non-contact process delivers significantly higher print resolution (2,500 dpi) with no consumable media, making it well-suited for laboratories requiring barcode and QR code clarity on cassette surfaces. Print speed is ≤ 4 seconds per cassette. Both variants support free drag-and-drop print layout editing within the print area, enabling fully customizable cassette designs. A professional slide loading and output system, combined with a U-shaped deflector, ensures smooth and safe cassette handling throughout the printing cycle.

TECHNICAL SPECIFICATIONS

Standard Tissue Cassette Printer — ToronPath™ TC Technical Specifications

Parameter	ToronPath™ TC (Thermal)	ToronPath™ TC-i (Infrared Laser)
Product Name	Tissue Cassette Printer — ToronPath™ TC	Tissue Cassette Printer — ToronPath™ TC-i
Printing Technology	Thermal printing	Infrared laser printing
Print Resolution	300 dpi	2,500 dpi
Print Speed	~5–7 s / cassette (Thermal)	≤ 4 s / cassette (Infrared laser)
Loading Capacity	≥ 6 cassette slots	
Output Collection Capacity	≥ 5 cassettes	
Display	7-inch capacitive touchscreen	
Data Transmission	USB, Wi-Fi, Ethernet, Serial ports	

Parameter	ToronPath™ TC (Thermal)	ToronPath™ TC-i (Infrared Laser)
Printable Content	Text, alphanumeric characters, symbols, barcodes, and other information	
Chemical Resistance	Resistant to xylene and alcohol, enabling long-term archival	
Template Support	Multiple templates; free drag-and-drop editing within print area	
Output Design	U-shaped deflector for easy cassette retrieval	
System Compatibility	LIS / HIS / PIS / PACS and other hospital information systems	
Operating System	Built-in (standalone, no external computer required)	
Instrument Width	≤ 110 mm (space-saving compact design)	
Dimensions (W × D × H)	110 × 380 × 353 mm	
Voltage	100-240 V AC, 50/60 Hz (international standard)	



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com

