



TORONTECH

TISSUE PROCESSOR CAROUSEL TYPE



Tissue Processor Carousel Type - ToronTP™ 2300

Tissue Processor Carousel Type ToronTP™ 2300 is an automatic carousel-type system designed for tissue fixation, dehydration, clearing, and wax infiltration in routine histology and pathology workflows. ToronTP™ 2300 is positioned for human, animal, and plant tissue processing and is used in hospital pathology departments, medical colleges, research institutes, and food inspection labs.

This Tissue Processor Carousel Type is built for laboratories that need stable automation, flexible program control, and dependable reagent and paraffin handling. It combines microcomputer control, selectable processing programs, programmable infiltration timing, wax-bath temperature control, and safety functions such as obstacle protection, alarms, and password-based access control.

ToronTP™ 2300 is a good fit for labs that want a compact automated processor with optional vacuum function, optional fume-control hood, and support for higher cassette loads through optional dual-basket configuration.

APPLICATIONS

Tissue Processor Carousel Type - ToronTP™ 2300 Applications

- Histology and pathology laboratories: this Tissue Processor Carousel Type is suitable for routine tissue preparation in pathology laboratories where samples must pass through fixation, dehydration, clearing, and paraffin infiltration before embedding and sectioning. ToronTP™ 2300 can be used for hospital pathology departments among the main application areas.
- Medical teaching and university laboratories: ToronTP™ 2300 is also suitable for pathology teaching departments and medical colleges or universities. Its programmable workflow and automated carousel movement support repeatable specimen preparation for instructional and routine use.

- Animal and plant research laboratories: the system is used for tissues from humans, animals, and plants. That makes it useful for biological and agricultural research environments that need automated sample processing before microscopic examination.
- Food inspection and applied research labs: food inspection departments as a target application. This supports use in laboratories that prepare biological samples for inspection, evaluation, or related analytical work.



FEATURES

Tissue Processor Carousel Type - ToronTP™ 2300 Key Features

- 12-station carousel design: ToronTP™ 2300 uses a carousel-type layout with 12 stations for automated tissue processing. This supports orderly movement through reagent and paraffin steps.
- Microcomputer-based process control: the unit uses microcomputer control for the full operating process, helping support convenient setup and stable operation.
- Flexible basket positioning: the tissue basket relocating control allows the basket to be placed in any cylinder, which gives the user more flexibility in process arrangement.
- Agitation-assisted processing: an agitation mode is included to improve mixing and contact among the tissue, reagent, and paraffin. This is intended to support better dehydration and infiltration results.
- Large touch screen for monitoring: a large touch screen displays processing steps and supports easier monitoring during operation. The specification section also notes an ergonomic foil-protected control panel with LCD.
- Programmable timing and delay start: the system supports per-station timing up to 99 hours 59 minutes and delayed start up to 99 hours 59 minutes, both in 1-minute increments.
- Temperature-controlled paraffin baths: the paraffin jars use a constant-temperature control system to maintain accurate wax temperature. The internal nonstick TEFLON-coated surface is intended to support tissue protection and easier maintenance.
- Selectable programs: eight programs are freely selectable, allowing users to adapt the workflow to different tissue-processing needs.
- Battery backup: the unit provides battery backup for up to 4 hours, excluding the paraffin jars. This helps protect workflow continuity during temporary power interruption.
- Safety and protection functions: ToronTP™ 2300 has electricity protection, obstacle protection, audible alarms, error messages, and warning codes. Password-protected access with an electric lock is also included for controlled use.
- Optional vacuum and fume-control configurations: available configurations include a basic instrument, vacuum function, and a hood with active charcoal filter and fume exhaust fan. These options help labs tailor the processor to their workflow and environmental requirements.

- Optional dual-basket loading: the processor supports two-basket loading as an option, increasing cassette capacity from 100 to 200.

THEORY & METHOD

Theory and Method

A Tissue Processor Carousel Type automates the movement of tissue cassettes through a programmed sequence of reagent stations and paraffin baths. During the cycle, tissue is fixed, dehydrated, cleared, and infiltrated with wax so it can later be embedded, sectioned, and examined microscopically.

ToronTP™ 2300 uses a 12-station carousel layout with programmable station timing, delayed start, and selectable processing programs. Agitation helps improve contact among tissue, solvent, and paraffin, while a constant-temperature system on the paraffin jars helps maintain infiltration conditions.

The system also supports optional vacuum processing and programmable infiltration time for each station. These functions help laboratories tailor the process to specimen type, workflow preference, and throughput needs.

TECHNICAL SPECIFICATIONS

Tissue Processor Carousel Type - ToronTP™ 2300 Technical Specification

Parameter	ToronTP™ 2300
Product type	Tissue Processor Carousel Type
Carousel type	12 stations

Parameter	ToronTP™ 2300
Configurations	Basic instrument; vacuum function; hood with active charcoal filter and fume exhaust fan
Basket loading	Standard single basket; optional two-basket loading
Tissue basket capacity	Up to 100 cassettes; 200 cassettes with optional two-basket loading
Basket stirring	1-minute interval every 4 minutes inside container
Wax baths	2 standard, 3 optional
Wax bath capacity	1.8 L each
Wax bath temperature range	45°C to 85°C
Reagent containers	10 standard
Reagent container capacity	2.3 L each
Programmable infiltration time per station	Up to 99 h 59 min
Delayed start	Up to 99 h 59 min
Number of programs	8, freely selectable
Vacuum pressure	Max. 0.05 MPa, approx. 0.5 bar
Standard tissue basket size	Ø120 × 100 mm and Ø120 × 80 mm
Standard basket quantity	1 standard, 2 optional
Battery backup	4 hours, except wax baths
Dry weight	80 kg
Product dimensions	780 × 570 × 690 mm
Nominal voltage	110/220 V AC ±10%

Parameter	ToronTP™ 2300
Nominal frequency	50/60 Hz
Power	800 W

Standard Accessories

- Basket (1 pcs)
- Fuse (2 pcs)
- Power wire (1 pcs)



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

