

# BASIC TISSUE EMBEDDING SYSTEM



## Basic Tissue Embedding System - ToronTES™ 1500

Basic Tissue Embedding System - ToronTES™ 1500 is a bench-top Tissue Embedding System designed for routine paraffin embedding in histology and pathology workflows. Basic Tissue Embedding System is an embedding center with button-panel control, automated processor control, LCD temperature display, and a large-capacity paraffin bath for daily laboratory use.

This Embedding System is intended to support smooth paraffin handling, controlled heating, and practical operator workflow at the embedding station. It includes temperature monitoring for the paraffin bath, thermostatic bath, and paraffin nozzle, along with timed startup and shutdown functions that help labs prepare the unit in advance of the working day.

ToronTES™ 1500 is a good fit for laboratories that need a compact paraffin embedding workstation with predictable heating, flexible control, and optional cold-plate expansion. Basic Tissue Embedding System configured with foot-switch control, forceps-heating positions, a paraffin collection drawer, and optional magnifying-glass lighting as part of the platform.

### APPLICATIONS

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## Basic Tissue Embedding System - ToronTES™ 1500 Applications

- Histology and pathology laboratories: this Tissue Embedding System is suitable for routine paraffin embedding in histology and pathology laboratories. Its paraffin bath, heated work areas, and nozzle-control functions support the step where processed tissue specimens are embedded into wax before sectioning.
- Hospital and clinical laboratory workflows: ToronTES™ 1500 can support hospital and clinical tissue-preparation workflows that require repeatable paraffin dispensing and stable embedding temperatures. The timer-controlled operation and large paraffin capacity can help prepare the station for regular daily throughput.
- Research and teaching laboratories: this Embedding System also fits research and academic environments where paraffin embedding is part of sample preparation for microscopy, training, or method development. The button-panel control, LCD temperature display, and foot-switch option support straightforward operation for multi-user environments.



## FEATURES

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### Basic Tissue Embedding System - ToronTES™ 1500 Key Features

- Button-panel control with automated operation: ToronTES™ 1500 uses button-panel control and an automated processor control system. Users can preset both operating time and temperature, which helps the station warm up before the workday begins.
- Fast and even heating performance: a newer heating material and nano-technology heating design intended to deliver quick and even heat-up. This supports more stable paraffin melting and dispensing at the workstation.
- LCD temperature display: the LCD display shows the temperatures of the paraffin bath, thermostatic bath, and paraffin nozzle. This gives the operator direct visibility into the main heated sections of the Embedding System.
- Inductive lamp and metal-switch control: an inductive head lamp and a metal switch that can be activated using tweezers or knives to control paraffin flow. This design helps the operator work more efficiently while handling specimens and molds.
- Automatic memory for preset conditions: the system stores preset temperatures and starts working according to the programmed time. This is useful for labs that want the Tissue Embedding System ready before staff begin embedding work.
- Large paraffin capacity: the paraffin bath capacity is listed as 6000 mL. Each hot reservoir can handle about 120 molds or 140 cassettes, which supports steady daily workflow without frequent refilling.
- Multilevel safety protection: ToronTES™ 1500 includes a multilevel security protection system. This supports safer routine operation in laboratory environments where the unit remains heated for extended periods.
- Integrated forceps-heating positions: there are three heating holes for forceps on both sides of the paraffin nozzle. This helps keep tools warm and ready during embedding.
- Paraffin collection drawer: a collection drawer is included to gather paraffin from the worktable. This makes daily cleanup easier and helps keep the workstation more organized.
- Optional cold plate and magnifying accessory: a cold plate as an optional accessory, along with an optional magnifying glass with lamp. These options can help expand the workstation for labs that need additional block-cooling or closer sample viewing during embedding.

## THEORY & METHOD

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### Theory and Method

A Tissue Embedding System works by melting paraffin, keeping it at a controlled dispensing temperature, and providing a heated working area where processed tissue can be positioned in molds before the wax solidifies. The operator places the specimen in a mold, dispenses molten paraffin through the nozzle, aligns the sample, and prepares the block for cooling and later sectioning. This operating concept of the paraffin bath, thermostatic bath, heated nozzle area, and timed temperature control.

ToronTES™ 1500 uses an automated control system that allows the user to preset startup time and temperature for any day. The LCD screen displays the temperatures of the paraffin bath, thermostatic bath, and paraffin nozzle, which helps the operator monitor working conditions during embedding.

The unit uses a newer heating material and nano-based heating design for faster and more even heat-up. This supports more stable paraffin handling and smoother daily operation at the embedding station.

## TECHNICAL SPECIFICATIONS

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### Basic Tissue Embedding System - ToronTES™ 1500 Technical Specification

#### Standard Accessories

| Parameter    | ToronTES™ 1500                                   |
|--------------|--------------------------------------------------|
| Product type | Basic Tissue Embedding System / Embedding System |

| Parameter                          | ToronTES™ 1500                                          |
|------------------------------------|---------------------------------------------------------|
| Paraffin bath capacity             | 6000 mL                                                 |
| Paraffin melting temperature range | 0 to 99°C                                               |
| Power consumption                  | Less than 1 kVA                                         |
| Control mode                       | Auto, foot                                              |
| Hot reservoir capacity             | About 120 molds or 140 cassettes for each hot reservoir |
| Ambient operating temperature      | 0 to 40°C                                               |
| Time control                       | 24-hour optional switch-on and switch-off setting       |
| Nominal voltage                    | AC 110 to 220 V $\pm 10\%$                              |
| Rated frequency                    | 50/60 Hz                                                |
| Dimensions                         | 60 × 52 × 36.5 cm                                       |
| Weight                             | 40 kg                                                   |

- Foot switch (1 pcs)
- Tissue molds (4 pcs)
- Power wire (1pcs)
- Fuse (2 pcs)

## Optional Accessories

- Cold plate
- Magnifying glass with lamp



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