



TORONTECH

COMPLETE TISSUE EMBEDDING SYSTEM (COOLING COMBINATION)



Complete Tissue Embedding System (Cooling Combination) - ToronTES™ 5500

Complete Tissue Embedding System (Cooling Combination) ToronTES™ 5500 is a compact Tissue Embedding System designed to support tissue embedding and specimen positioning with an integrated cooling combination. ToronTES™ 5500 uses a semiconductor cold spot built into the service platform, an adjustable cold plate, and a temperature-controlled ice tank insert to create a more controlled embedding workflow at the bench.

This Embedding System is aimed at laboratories that need localized cooling support during tissue handling and paraffin block preparation. The cold spot can reach as low as -20°C, while the ice tank is adjustable from 0 to 5°C, giving the operator more control during specimen positioning and block handling.

ToronTES™ 5500 is well suited for labs that want a compact workstation with cooling assistance built into the platform. The system also includes a gooseneck magnifier with integrated light, which helps improve visibility during tissue orientation and embedding tasks.

APPLICATIONS

Complete Tissue Embedding System (Cooling Combination) - ToronTES™ 5500 Applications

- Histology and pathology laboratories: this Tissue Embedding System is suitable for paraffin embedding in histology and pathology workflows where specimens must be positioned accurately before block cooling and later sectioning. The localized cooling area helps support more controlled handling during the embedding step.
- Hospital and clinical laboratory workflows: ToronTES™ 5500 fits routine clinical tissue-preparation workflows that need embedding support with localized cooling at the workstation. This setup can help reduce delays between specimen

positioning and block stabilization.

- Research and teaching laboratories: this Embedding System also works well in research and training settings where users need a compact embedding station with built-in visual assistance and localized cooling for sample positioning. The illuminated magnifier is especially useful when precise orientation is important.



FEATURES

Complete Tissue Embedding System (Cooling Combination) - ToronTES™

5500 Key Features

- Integrated cooling support on the service platform: ToronTES™ 5500 includes a semiconductor small cold spot built into the service platform. This gives the Embedding System localized cooling directly where specimen positioning takes place.
- Low-temperature cold spot performance: the cold spot can reach a minimum temperature of -20°C, which helps support controlled cooling during embedding and block handling.
- Adjustable cold plate temperature: the cold plate temperature is constant and adjustable, allowing the user to match cooling behavior to the workflow and specimen handling preference.
- Ice tank insert with controlled temperature: the system includes an ice tank insert adjustable from 0 to 5°C. The water in the tank is not easy to freeze, which helps maintain stable working conditions.
- Gooseneck magnifier with built-in light: a gooseneck magnifier with electric light helps with tissue embedding and positioning. This is especially useful for detailed specimen orientation and more precise bench work. ● Compact bench-ready footprint: the dimensions make the unit suitable for bench installation in routine pathology and histology labs that need an integrated Tissue Embedding System without a large footprint.

THEORY & METHOD

Theory and Method

A Tissue Embedding System supports paraffin embedding by giving the operator a controlled work area to orient tissue in a mold while the wax remains workable. In a cooling-combination design, localized cold zones help stabilize the specimen or partially cool the block during positioning so handling is easier and orientation is more controlled.

ToronTES™ 5500 uses a semiconductor cold spot on the service platform, an adjustable cold plate, and an ice tank insert adjustable from 0 to 5°C. This arrangement supports localized temperature control at the work surface, which can make tissue positioning and paraffin block handling more stable during preparation.

The system also includes a gooseneck magnifier with electric light. This helps the operator place and orient tissue more precisely, which is important for preparing blocks that section correctly later in the microtome.

TECHNICAL SPECIFICATIONS

Complete Tissue Embedding System (Cooling Combination) - ToronTES™ 5500 Technical Specification

Parameter	ToronTES™ 5500
Product Type	Tissue Embedding System / Embedding System
Cooling Design	Semiconductor small cold spot on service platform
Minimum Cold Spot Temperature	-20°C
Cold Plate Temperature	Constant, adjustable
Ice Tank Temperature Range	0 to 5°C, adjustable
Magnifier	Gooseneck magnifier with electric light source
Dimensions (L × W × H)	600 × 660 × 420 mm

Parameter	ToronTES™ 5500
Net Weight	48 kg

Standard Accessories

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

Optional Accessories

- Magnifying glass with lamp
- Paraffin
- Cassettes



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

