



# CRYOSTAT

# Cryostat

A Cryostat is a low-temperature sectioning system used to prepare thin frozen tissue sections for pathology, histology, clinical diagnosis, and laboratory research. In a typical Cryostat Microtome workflow, the specimen, blade area, and working zone are kept at controlled low temperatures so tissue can be cut cleanly without softening during sectioning. This makes a Cryostat Machine especially useful for fast frozen-section work, where speed and temperature stability directly affect section quality.

ToronCryo™ Series is developed to support frozen section preparation across different laboratory needs, from compact freezing accessories for compatible microtomes to fully integrated floor-standing cryostat systems. Across the brochure lineup, the CR Series is positioned for hospitals, pathology labs, research institutions, and other environments that need reliable low-temperature tissue preparation, stable cooling control, and practical daily operation.

Depending on the model, a ToronCryo™ yostat may provide rapid pre-freezing, multi-point refrigeration, touchscreen control, automatic defrost recovery, specimen retraction, anti-roll guidance, UV disinfection, standby mode, and broad compatibility with different sectioning thickness ranges. This gives labs a flexible path from simple frozen-section support to a high-capacity Cryostat Microtome platform.

## Product Line Up

ToronCryo™ Series includes three main Cryostat solutions, each designed for a different level of workflow complexity, laboratory size, and frozen-section demand.

### **1. Fast Cryostat - ToronCryo™ 200**

ToronCryo™ 200 is a compact fast Cryostat Machine designed as a freezing accessory for compatible ToronCryo™ MT paraffin microtomes. It combines a cryo-clamp and cryo-console to create a practical low-temperature sectioning setup for rapid frozen section work. This model is a strong fit for hospitals, pathology labs, research institutions, and users who want to add frozen-section capability to an existing microtome platform without moving to a full enclosed cryostat cabinet.

## **2. Fully Automatic Cryostat - ToronCryo™ 400**

ToronCryo™ 400 is a fully automatic Cryostat Microtome designed for frozen tissue sectioning in pathology, histology, and laboratory sample preparation. It features intelligent temperature control, semi-automatic sectioning, touchscreen operation, multi-point refrigeration, and rapid freezing for up to 12 specimens. This model is well suited for labs that need a more integrated cryostat platform with controlled chamber cooling, practical sectioning support, and flexible blade compatibility.

## **3. Dual Compressor Cryostat - ToronCryo™ 500**

ToronCryo™ 500 is a dual-compressor Cryostat built for high-quality frozen tissue sectioning in pathology, dermatology, and histology laboratories. It adds an extra-large freezing chamber, UV sterilization, a large touchscreen, fast cooldown, Peltier quick-freeze stations, external precision microtome structure, and a wider range of advanced operator features. This model fits laboratories that need a high-capacity Cryostat Machine for demanding daily frozen-section workflows and higher throughput.

# **Why Choose ToronCryo™ Series for Your Microtome?**

### **A complete frozen-section range**

ToronCryo™ Series gives laboratories more than one way to build a frozen-section workflow. You can choose a compact cryo-accessory setup, a fully automatic enclosed Cryostat Microtome, or a larger dual-compressor Cryostat Machine depending on your sectioning volume, lab space, and workflow goals.

### **Designed for pathology, histology, and research use**

The CR Series is positioned for hospitals, clinical pathology, biological histology, research institutions, and other laboratories that need stable frozen section preparation. That makes the product family a practical fit for both routine diagnostic use and broader research-based tissue work.

### **Flexible workflow options**

Some labs need a simple upgrade to an existing microtome. Others need a dedicated floor-standing Cryostat with full chamber cooling, automatic controls, and higher specimen capacity. ToronCryo™ Series covers both ends of that need, making it easier to choose a system that matches your actual workflow instead of overbuying or under-specifying the equipment.

### **Stable temperature control for better sectioning**

Across the series, the brochure emphasizes controlled freezing performance, automatic recovery after defrost, multi-point refrigeration, specimen temperature stability, and fast cooldown. These functions help support cleaner sections, better handling, and more reliable daily operation during frozen tissue preparation.

### **Practical features for daily lab use**

ToronCryo™ models include user-focused functions such as touchscreen displays, simultaneous temperature monitoring, anti-roll guidance, specimen retraction, lockable controls, heated viewing windows, standby mode, and easier cleaning access. These details matter in real laboratory use because they help make the sectioning process smoother and easier to manage.

### **Scalable choice within one product family**

ToronCryo™ Series gives laboratories a scalable platform. A lab can start with a compact frozen-section accessory like ToronCryo™ 200, move into a more integrated Cryostat Microtome with ToronCryo™ 400, or select ToronCryo™ 500 for larger-capacity and more advanced frozen-section demands. That continuity helps standardize workflow while giving room for future growth.



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