

MICROTOME & CRYOSTAT

SAFETY GUIDE



Freezing (Cryostat) ¹



Rotary ²



Sliding ³

Microtomes are powerful precision instruments used to slice microsections from a block of embedded tissue or frozen sections.

Usage Risks

- Cuts from sharp blades
- Exposure to extreme temperatures, infectious materials, chemical fixatives or disinfectants
- Aerosol generation
- Electrical shock from component

Safe Usage

- Train all users prior to use
- Avoid accidental activation
 - Adjust seating height and foot pedal position appropriate to user's size
- Use guards and locks
 - Ensure roll guard is over blade and wheel is in Locked position when not in use and before engaging with machine
- Do not handle parts directly
 - Use forceps or tongs to remove tissue sections or blades
 - Keep hands clear from moving parts/blades
 - Keep hands clear when adjusting stage
- Ensure no blades or tissues are residual from previous use
- Perform safe sectioning
 - Use a sectioning brush for sample or chuck
 - Remove blade before removing sample or before cleaning

PPE

- Lab coat, safety glasses, cut-resistant gloves, cryogenic gloves