MICROTOME & CRYOSTAT SAFETY GUIDE









Left to Right: Freezing (Cryostat), Rotary, Sliding microtomes

Description	Specialized precision cutting instruments used to slice extremely small sections from a block of embedded tissue, also called microsectioning.
Risks	 Cuts from sharp blades Exposure to extreme temperatures Exposure to potentially infectious materials/biohazards Electrical shock from electrical components Potential generation of aerosols Exposure to chemical fixatives or disinfectants
Safety Precautions	 All users must be trained Never directly handle blades Guards, blade & wheel locks must be engaged when not in use Use foreceps or tongs to remove tissue sections or blades Keep clearance between user's hands and any moving parts/blades Sit at proper height for user
PPE	 Lab coat Safety glasses Gloves Cut resistant gloves Cryogenic glvoes
Operation & Cleaning	 Before use check to make sure blades or tissues were not left by previous user Before ever reaching inside be sure; roll guard is over blade, and wheel is in "LOCKED" position Use a sectioning brush for sample or chuck Keep hands clear when adjusting the stage

Ensure foot pedal is positioned properly to avoid accidental activation
Always remove blade before removing sample or before cleaning