

# The Hacker-Bright OTF5000 Cryostat

*STYLING FOR TODAY - RELIABILITY FOR TOMORROW*



**UNPARALLELED  
REFRIGERATION,  
PERFORMANCE AND QUALITY  
FOR:**

**HISTOCHEMISTRY**

**SURGICAL PATHOLOGY**

**IMMUNO-HISTOCHEMISTRY**

**IMMUNO-FLUORESCENCE**

**AUTORADIOGRAPHY**

**NEUROSCIENCE**

**MATERIALS R & D**

**REAGENT SLIDES**

**“WHOLE BODY” STUDIES**

The newly styled OTF5000 series maintains all of the features and technical properties which have contributed to its' impeccable reputation. The OTF5000 is one of the most versatile, dependable and user friendly microtome cryostats available. Over the years our original design has been modified and fine tuned to satisfy user preferences. The OTF5000 is the only cryostat available with a dual parallel compressor system which is dedicated solely to chamber refrigeration. This exclusive feature gives you the extra assurance that your OTF refrigeration will never let you down.

The modular OTF5000 design allows a user to adapt their instrument to an unlimited range of applications. If your needs change, the OTF5000 has the built-in flexibility to change along with you. From routine clinical pathology to exacting quantitative analysis; the OTF5000 user is insured consistent, superior performance.

The heart of the OTF5000 series is the 5040 Microtome. With a proven track record for cutting a diverse range of hard and soft specimens, the 5040 was designed specifically for low temperature operation.

The OTF5000 offers special new features including: new contoured top for added operator comfort; 2 package configurations with OTF's most popular options; interchangeable knife blocks for disposable and standard knives including a new lever release Feather blade holder; automatic evaporator defrost supplied as standard; non-urgent features located on side panel plus a long list of options and accessories.

The OTF series utilizes environmentally friendly CFC-FREE refrigerant. Efficiency is further enhanced by a generous depth of insulating foam. The OTF chamber will maintain set temperature during extended sectioning sessions.

## **BASIC SPECIFICATIONS - HACKER-BRIGHT OTF5000 MICROTOME CRYOSTAT**

CRYOCHAMBER	Polished stainless steel construction
QUICK FREEZER	9 position, running at 10° C below chamber temperature. -80°C version is a factory fitted option
MINIMUM CHAMBER TEMPERATURE	-35°C single; -40°C dual; -45°C LT version
CHAMBER TEMPERATURE CONTROL	Microprocessor with LED display
SPECIMEN TEMPERATURE CONTROL	+5°C to lowest achievable chamber temperature
MICROTOME	5040 rotary microtome with beryllium hinges
SECTION THICKNESS RANGE	1µm to 60µm in 1µm increments. Other ranges available.
CUTTING MOVEMENT	Rotary rocking
CUTTING STROKE	56mm
MAXIMUM SPECIMEN SIZE	50mm x 70mm
TOTAL FEED RANGE	5.6mm head movement plus 44mm knife holder movement
ADVANCE/REWIND SPEEDS	116µm/s (slow) 164µm/s (fast)
KNIFE ANGLE ADJUSTMENT	25°
SPECIMEN HOLDER	Standard vice clamp
KNIVES	Conventional knives and disposable blades
EVAPORATOR DEFROST	Automatic with analogue clock with battery back-up
WINDOW SURROUND	Heated
WINDOW DEMIST SYSTEM	Fan driven, automatic
SHELVES	3 internal; 1 external
SURFACE FINISHES	Easy clean, scratch and solvent resistant, flame retardant
NON URGENT CONTROLS	Side mounted
DIMENSIONS	W 880mm max H 1250mm D 840mm
WEIGHT	120kg manual 140kg motorized

### ***LS Specification - as the basic specification but with the addition of the following items:***

OBJECT ORIENTATION	Fine, with +/-8° in horizontal and vertical axis, 360° rotation
MOTORIZED ADVANCE/REWIND	2 speed, 116µm/s and 164µm/s with auto-reset
SPECIMEN TEMPERATURE CONTROL	Fast reacting from -5°C to minimum chamber temperature, microprocessor controlled with LED display

### ***HS Specification - as the LS specification but with the addition of the following items:***

SECTION COUNTER	6 digit LCD display
DUAL REFRIGERATION	Twin compressors automatically switched with fail-safe feature, -40° C chamber temperature. LT system available to go to -45°C.
MOTOR DRIVE	Features cutting window to accommodate differences in specimen size. Infinitely variable speed control in cutting window. Slow speed version available for cutting hard materials. Foot switch.

*Other options and accessories include low height option for cabinet, glove port, thin section conversion kit, large area sectioning kit, UV decontamination unit, lever release Feather blade holder, Magnacut disposable blade system, holders for glass knives, full range of knives and object holders . Please see our price list for all options and ordering information.*

*call us to request a complete catalogue  
of H/I products for HistoPathology,  
1-800-4-HACKER  
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www.hackerinstruments.com*



**HACKER Instruments & Industries Inc**  
1132 Kincaid Bridge Road  
Winnsboro, SC 29180  
USA  
Tel: (803) 712-6100  
Fax: (803) 712-6116  
e-mail: hackerlab@aol.com