

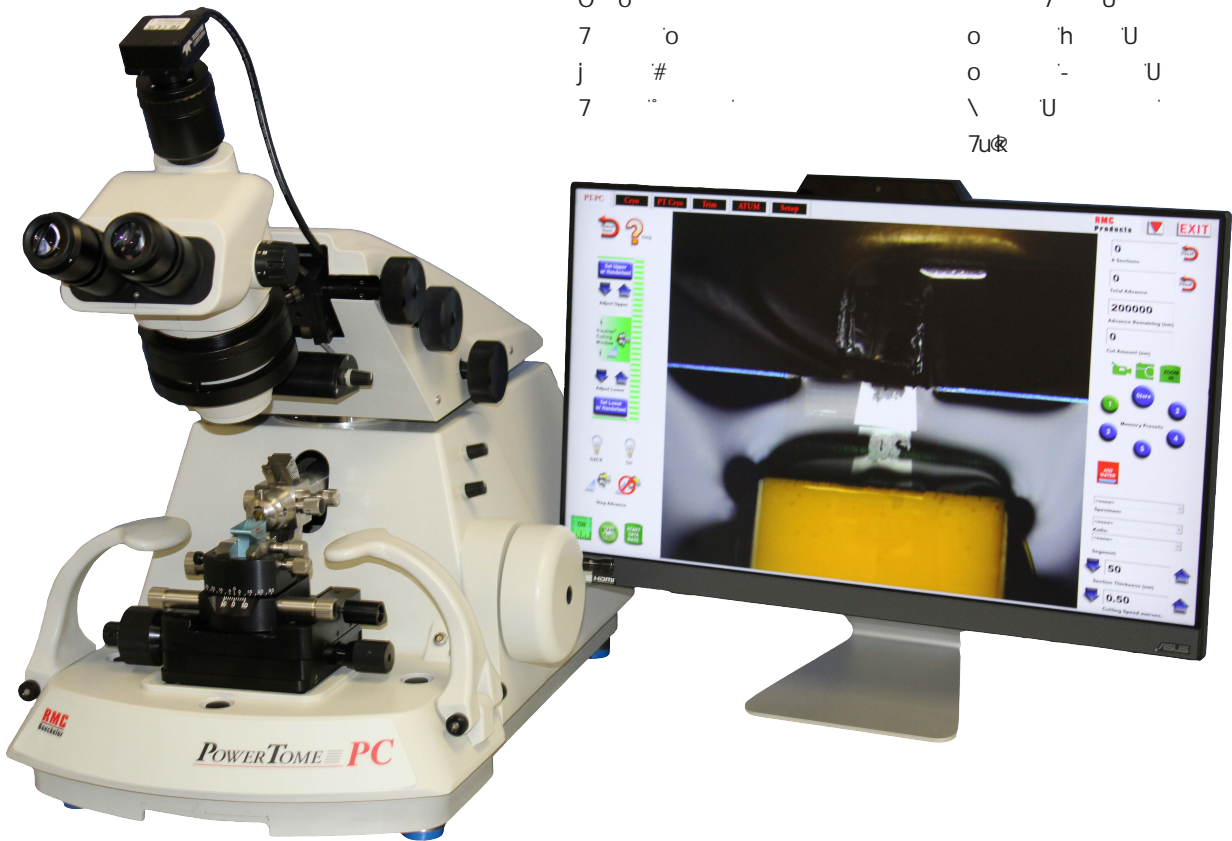
# *POWER TOME* ≡ *PCZ*<sup>TM</sup>

Ideal for Applications In:

U  
O  
7  
j  
7

Designed for:

u  
7  
o  
U  
U  
U  
U



The Powerful Precision & Vision Ultramicrotome For Research & Education

uh#-  
=  
uh# uh#-  
u  
u  
t

**FEATURES**

- Produce high quality semi- and ultra-thin sections for TEM, SEM, block facing for AFM, TOFSIMS, LM, and CEMOVIS.
- Hybrid control system includes touch screen monitor with Visutrac™ cutting zone control, plus digital tactile controller
- High-definition video package showing work area with built-in video measuring system
- Record & save video clips & still images
- Built-in report generator, database, & diagnostic routines for automatic documentation of sectioning parameters
- Ergonomic stereo microscope system with unique lateral viewing control
- Four Types of LED illumination are provided. All are independently adjustable.
  - Overhead bright diffuse LED illumination
  - Backlighting for careful approach of the knife to the specimen
  - Transillumination through the specimen holder for viewing details of the specimen within the block  
(Transillumination LED can also be used for spot illumination by pointing it towards the specimen or knife edge)
- Patented Power Drive© cutting stroke for large blocks & hard materials
- Electronic step advance for final specimen approach to the knife edge
- High stability mechanical advance system for reproducible section thickness
- Built-in calibration & service diagnostics instantly confirm functionality & simplify maintenance procedures

**SPECIFICATIONS**

- Specimen auto feed: 0.2 mm (200 µm; 200,000 nm)
- Section thickness: 0nm to 15µm
- Cutting speed: 0.1 to 100mm/sec in 0.1mm/sec increments  
Variable return speed over entire cutting speed range
- Knife stage movement: 50mm gross advance  
25mm E-W travel  
12mm N-S advance

**INCLUDES****Steremicroscope Trinoculars ACCU-SCOPE 3075 Series**

- 7:1 zoom
- 6.7x to 45x magnification
- 10x WF (22mm) eyepieces
- phototube with 50/50% right path
- c-mount camera adaptor
- 45-degree viewing angle

**Teledyne 2.1 megapixel USB 3.1 color camera**

- with Sony IMX327 Rolling Shutter Sensor

**Accessory Kit**

- Transilluminated Specimen Holders (Universal, 8mm Stepped, and 7mm Flat)
- Arc Segment Holder
- Arc Mounting Stub
- Trimming Block
- Trimming Post
- 12" Transillumination LED
- Cable, fuses, wrenches

### ACCEPTS THE FOLLOWING KNIVES

- Glass knives up to 12mm wide
- Triangular tungsten carbide knives
- Any commercial brand of diamond knives

### OPTIONAL ACCESSORIES AVAILABLE FOR PURCHASE

#### ROOM TEMPERATURE SPECIMEN HOLDERS

- Vise type flat specimen holder.
- Universal transilluminated specimen holder.
- 7mm flat specimen transilluminated holder.
- 5.6mm flat specimen transilluminated holder.

#### OTHER POWERTOME ACCESSORIES

- Static Line Ionizer  
Ionization depolarization device, 115VAC or 220 - 240VAC
- Breath shield, for knife stage  
Includes reservoir/pump, tubing and filler tube
- Specimen viewing mirror  
Mounts on upper stage for straight-on viewing of specimen
- Easy-Lift glass knife spacer and post.
- PowerTome dust cover.
- Automated water level control system
- Stereomicroscope-mounted breath shield

Maintains constant water level in knife boat, automatically adjusting as required. For use with PTPCZ, PT3D, ATUMtome.



STATIC LINE IONIZER, 110VAC or 220 - 240V



AUTOMATED WATER LEVEL CONTROL SYSTEM  
(for use with PTPCZ, PT3D, ATUMtome)



WATER TROUGH FILLER  
(PERISTALTIC WATER PUMP)