

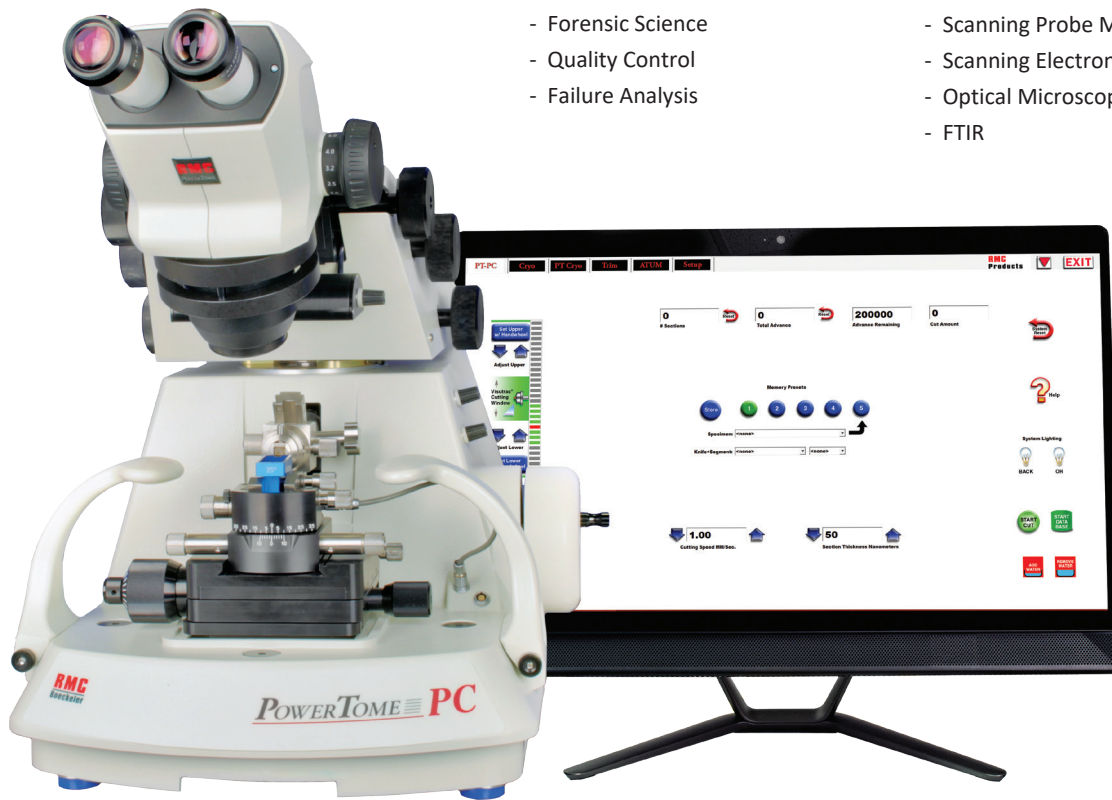
POWER TOME ≡ *PC*[™]

Ideal for Applications In:

- Materials Research
- Life Science
- Forensic Science
- Quality Control
- Failure Analysis

Designed for:

- Transmission Electron Microscopy
- Atomic Force Microscopy
- Scanning Probe Microscopy
- Scanning Electron Microscopy
- Optical Microscopy
- FTIR



Advancing Ultramicrotomy To The Next Level

The PTPC features an all-in-one computer controller with a slim design 21.5" touch screen control monitor, including wireless mouse & keyboard, interconnect cables & accessories. All control functions can be activated by touching the control monitor screen, or by mouse, while maintaining use of the tactile digital controller. The color monitor displays a bright and user friendly control interface with intuitive control icons logically arranged around the video display.

The PTPC can be upgraded to the PTPCZ and PT3D, for use of HD video options and extended sectioning. Various add-on components for array tomography and cryo applications are also available.

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.
- 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.
- Dual foot switch control with trim function.
- 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**Steromicroscope Binoculars Zeiss Stemi 508**

- 8:1 zoom
- 6.3x to 50x magnification
- 10x WF (23mm) eyepieces
- 35° viewing angle

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.

STEREOMICROSCOPE ACCESSORIES

- 1.3 megapixel USB color camera.
- 10x WF(23mm) eyepieces. Per pair.
- Stemi 508 trinocular stereomicroscope
50/50% beam splitter, 8:1 zoom, 6.3x to 50x magnification, 10x WF (23mm) eyepieces, phototube with 50/50% right path and c-mount camera adapter.
- 16x eyepieces. Per pair.
- Stereomicroscope mounted breath shield

OTHER POWERTOME ACCESSORIES

- Static Line Ionizer
Ionization depolarization device, 115VAC or 220 - 240VAC
- Breath shield, for knife stage
- Water trough filler.
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.
- Computer with control software and touch screen monitor
- Dual Footswitch Control
- 1mm advance arm and software upgrade.
- Automated water level control system

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



STATIC LINE IONIZER, 110VAC or 220 - 240VAC



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



ZEISS 508 TRINOCULAR
STEREOMICROSCOPE with
1.3 MEGAPIXEL USB CAMERA



WATER TROUGH FILLER
(PERISTALTIC WATER PUMP)