

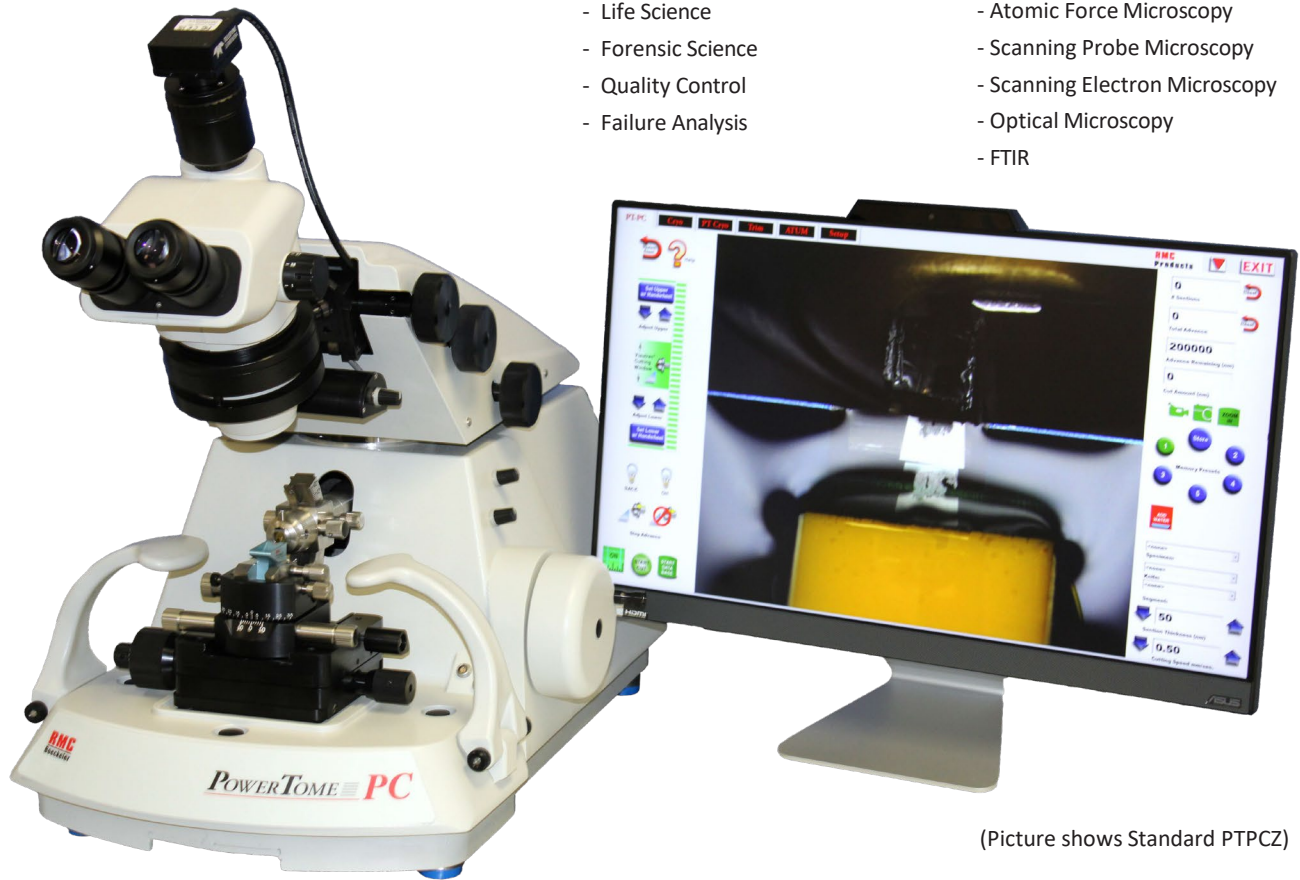
POWER TOME ≡ *PCZ*[™]

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



(Picture shows Standard PTPCZ)

The Powerful Precision & Vision Ultramicrotome For Research & Education

The PTPCZ features a high definition video package where the sectioning process is displayed in real-time at the center of the computer monitor. Equipped with the same computer control interface as the PTPC, the PTPCZ enables the viewing and recording of the sectioning process in full HD for future viewing and use.

The all-in-one computer controller features a slim design, 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.

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
- 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

ACCEPTS THE FOLLOING KNIVES

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

ACCESSORY KIT

- Universal Specimen Holder
- 8mm Stepped Specimen Holder
- 7mm Flat Specimen Holder
- Arc Segment Holder
- Arc Mounting Stub
- Trimming Block
- Trimming Post
- Cable, fuses, wrenches

INCLUDES

- Teledyne 2.1 megapixel USB-C 3.1 color camera**
- with Sony IMX327 Rolling Shutter Sensor

STEREOMICROSCOPE INCLUDES

Stereomicroscope 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

Stereomicroscope trinocular ZEISS Stemi 508 Series

- 8:1 zoom
- 6.3x to 50x magnification
- 10 WF (23mm) eyepieces
- Phototube with 50/50% right path
- C-mount camera adaptor

Upgrade Available for Purchase

- ZEISS Stemi 16x eyepieces, increases magnification to 80x



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

ADDITIONAL 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
- 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
- Stereomicroscope mounted breath shield
- Automated water level control system
Maintains constant water level in knife boat, automatically adjusting as required. For use with PTPCZ, PT3D, and ATUMtome



STATIC LINE IONIZER, 110VAC or 220 - 240VAC



WATER TROUGH FILLER
(PERISTALTIC WATER PUMP)