

# PowerTome-X, XL and PC Specifications

- Autothin sectioning to 5 nm
- Autothick sectioning to 10 microns - XL, PC
- Autothick sectioning to 5 microns - X
- Digital section counter - XL, PC
- Feed totalizer - XL, PC
- 15mm cutting stroke
- Cutting speed range 0.1-49.9 mm/sec
- Variable return speed selection over entire cutting speed range
- Automatic feed 200 microns
- Manual feed 50mm
- 4 Memory channels
- Built-in self diagnostic programs
- Compact two piece design with separate control unit
- Built-in hand rests
- Advanced technology multi-level vibration isolation system
- High stability mechanical drive systems for both specimen advance and cutting
- High precision micrometer knife stage
- Fully adjustable "scan and tilt" stereomicroscope
- Variable position lighting with LED backlighting and specimen transillumination

### Supplied complete with:

- Arc segment mount
- Stereo microscope
- Self locking "Positrack" knife stage
- Two universal specimen holders (transilluminating)
- Backlight cable
- Transillumination cable
- Glass knife support (polished)
- Wooden accessory box
- Trimming block and post
- Two specimen holder adapters and wrenches
- Breathshield
- Control unit
- Power cord
- Interconnect cables
- Dust cover
- Spare lamps and fuses

Electrical: *input:* 100 - 240 Vac 50/60 HZ  
*output:* 12 VDC 55 watts maximum  
 Meets UL, CSA & CE requirements

### Dimensions: W x H x D mm

Controller	194	102	375
Microtome	394	559	648
Shipping			
Main Unit	559	635	839 72 kgs
Accessories	458	458	458 15.5 kgs

### Additional components for PowerTome-XL, PC

- Control unit with additional digital display for feed totalizer/section counter
- Specimen viewing mirror
- Water trough filler with pump & reservoir

### Control Unit for PowerTome-PC

- 15-inch Touch Screen LCD Monitor
- "Small Footprint" PC with minimum:  
 2.5 GHz processor  
 512MB RAM  
 AGP 8X video  
 DVD-ROM/CD-RW optical drive  
 40GB hard drive  
 Keyboard & mouse  
 Windows 2000 or XP operating system
- Optional Video Package with Photostereozoom, camera, C-mount, Frame-grabber

# Innovative Ultramicrotome Technology



*Making Good Things Even Better*

**POWERTOME** **X**      **POWERTOME** **XL**      **POWERTOME** **PC**



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*Precise • Powerful • Easy to Use*

The RMC line of ultramicrotomes has the longest pedigree in the industry. When they became a part of Boeckeler Instruments, a company with over 60 years experience manufacturing precision instruments, the stage was set for us to raise the bar on an already excellent product. The result:

# POWER TOME **X** and POWER TOME **XL**

## Smooth . . .

We designed a new cutting engine with exceptional levels of precision tolerance.

This design reduces "play" between the parts of the engine to a minimum, virtually eliminating section chatter and susceptibility to external vibration.

## Powerful . . .

These are the only ultramicrotomes with the patented Power Drive<sup>®</sup> technology. When gravity fails, the powered cutting stroke has enough strength to cut through even hard, non-homogenous specimens.

While we were at it, we added . . .

- **Self Lubricating Pivot Joints** - A lifetime of maintenance free sectioning.
- **Lifetime Drive Belt Warranty** - Free replacement for as long as you own the machine.
- **Non-Slip Timing Belt Drive** - Ultra-precise control of the cutting stroke.
- **Frictionless Bearings** - For longer life and maintenance free sectioning.
- **3 Year Limited Warranty On The Cutting Arm** - The longest in the industry.
- **All Stainless Steel Construction** - Provides less deflection and greater stability of the Cutting Arm.

Bright LED backlight for critical approach  
LED specimen transillumination for localization

Handrests



Micrometer Adjustable Knife Stage

Arc  
Segment  
Holder



Stereomicroscope  
with Scan and Tilt  
Range: 10.08X to  
64X with standard  
16X eyepieces



. . . then, we turned our attention toward operating the ultramicrotome: How to reduce or eliminate complication while helping users capture valuable information regarding each sectioning session.

## POWER TOME **PC**

### Computer-based Control, Data Base and Video Monitor System

Large, Simple, Intuitive Controls

15" LCD Touch Screen Monitor

Cutting Zone set by Unique "Visutrac" control, which can be adjusted at any time. Cutting zone can also be set by positioning specimen & activating upper & lower cutting zone icons.

Optional Video Monitoring System

Data Base and Report Generator

While this represents a big step forward in data capture and reporting, we will be expanding this capability further.



PT-PC page without video monitor displayed.

- **Large, Simple, Graphic Interface** - All commands are visible and controllable using the supplied 15" LCD touch screen monitor.
- **Easy to Read** - There's never a question as to what's being displayed, even at a distance.
- **Report Generator** - Easily capture and print reports based on the materials you're sectioning.
- **On-screen Help** - With WorldWide Web-like simplicity.
- **Video Monitoring** - This option uses the center of your touch screen monitor to display the sectioning process in real time. It can greatly reduce the back and neck strain associated with hovering over the microscope. It's even large enough to allow the operator to monitor sectioning from a distance.