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)
- Baffle/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:

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

© 2008 Boeckeler Instruments, Inc. Boeckeler is a registered trademark of Boeckeler Instruments, Inc., Tucson, Arizona. All other trademarks are the property of their respective owners. All specifications subject to change without notice. Manufactured in the U.S.A.
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:

**POWERtome X and POWERtome 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® 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.

. . . 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.

**POWERtome PC**

Computer-based Control, Data Base and Video Monitor System

Large, Simple, Intuitive Controls

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.

Data Base and Report Generator

Optional Video Monitoring System

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.
- 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.