

POWER TOME XL™



Precision & Performance For The Efficient EM Lab

The PowerTome is the only fully upgradeable ultramicrotome, with the ability to take a PTXL, the routine workhorse, and build it up to the PTPCZ research level system with computer control and HD video options. The customer has the choice of upgrading to a PC based controller with or without the high-definition video package.

The PTXL is controlled via a digital tactile controller, eminently suitable for routine work. The PowerTome is capable of accommodating glass knives up to 12mm wide, triangular tungsten carbide knives, and any commercial brand of diamond knife.

The PTXL can be upgraded to the PTPC, PTPCZ, and PT3D for use with a computer based controller with HD video options. 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.
- Control system includes digital tactile controller
- Ergonomic stereo microscope system with unique lateral viewing control
- Three 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 cut & trim functions
- 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: 5nm to 10µm
- Cutting speed: 0.1 to 99.9mm/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

KNIFE OPTIONS

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

STEREO MICROSCOPE BINOCULAR ZEISS STEMI 508

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

POWER SUPPLY (SPECIFY UPON ORDER)

- 100/120/220/240V 50/60HZ

SHIPPING SPECIFICATIONS

- PowerTome crate: 865mm x 560mm x 660mm 54.5kg / 34" x 22" x 26" 120lbs
- Accessory carton: 660mm x 660mm x 660mm 36.5kg / 26" x 26" x 26" 80lbs
- Total weight: 91kg / 200 lbs

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
75501	PTXL	
- 75637	Lower Stage Assembly	1
- 75635	Upper Stage Assembly	1
- 75541	Hand Wheel	1
- 75670	PowerTome Controller	1
- 75205	Breath Shield, Stage	1
- 71171-5	Breath Shield, Microscope	1
- UM117	Scope Mount	1
- 75590	Dust Cover	1
- 50609	Binocular Stereomicroscope	1
- Per Cust.	Power Cord	1
- 79960	Foot Switch	1
- 50038	Cable, Interconnect	1
- 56AC104	Power Conditioner 110V / 120V	1
or		
56AC102	Power Conditioner 220V / 240V	
75593	ACCESSORY KIT	
- 75699	Accessory Box	1
- 75413	Specimen Holder, 7mm	1
- 75413S	Specimen Holder, Stepped	1
- 75368	Specimen Holder, Universal	1
- 75150	Arc Segment Holder	1
- 75340	Wrench Specimen	1
- 75155	Arc Mounting Stub	1
- 75335	Trimming Block	1
- 75353	Trimming Post	1
- 75815	8" LED Cable	1
- 75816	12" Transillumination LED	1
- 56AC100	1.6 amp Fuse	3
- 311310	Wrench, Allen (Hex) 1.3mm	1
- 317198	Wrench, Allen (Hex) 2.0mm	1
- 315979	Wrench, Allen, (Hex) 2.5mm	1
- 311309	Wrench, Allen (Hex) 3.0mm	1
- 316749	Wrench, Allen (Hex) 4.0mm	1
- 61823	Wrench, Allen(Hex) 3/16"	1
- 19652	Wrench, Ballpoint 2.0mm (Bondhus)	1
- 75340-2	Wrench, Specimen 4.0mm	1