



TESCAN TS 5120 – PROXIMA

A SEM integrated with PC technology from the design stage

Main Features

- Full PC control of all control features of the Proxima
- Full PC control of all imaging features of the Proxima
- All software using the industry standard Windows environment
- Microanalytical laboratory via integration of the following:
 1. EDX including quantitative x-ray mapping and linescan
 2. CCD camera on either the SEM or optical microscope
 3. STM fitted on the Proxima stage and controlled via the PC
 4. Full digital image processing
 5. Full image analysis

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SPECIFICATION

- **Resolution** 9 nm
- **Magnification** 12 x to 250 000 x
- **Electron optics**
 - Electron Gun** hairpin tungsten, auto gun alignment
 - Accelerating Voltage** 1 - 30 KV continuously variable
 - Lens system** 3 stage electro magnetic lens
 - Stigmator** auto stigmation correction
 - WD** 8 - 50 mm
- **Specimen stage**
 - X** 0 - 40 mm
 - Y** 0 - 40 mm
 - Z** 0 - 7 mm continuously - option
 - Tilt** 0 - 45 degrees - option
 - Rotation** 360 degrees
 - Specimen exchange** drawer type opening chamber
- **Vacuum system**
 - Rotary Pump**
 - Turbomolecular pump**
 - Automatic logic control via computer workstation**
 - Pumping time for speciment exchange** 3 min
- **Computer Workstation**

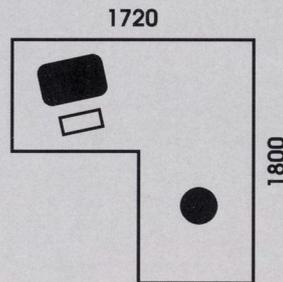
Integrated PC with 100 MHz CPU and 16 MB RAM with trackball and mouse control using a **Microsoft Windows** platform.
17 inch SVGA monitor for image and menu display.
All microscope controls and imaging features are addressed by computer.
- **Scanning**
 - Image size**
 - 512 x 512
 - 1024 x 768
 - 1024 x 1024
 - 2048 x 2048
 - focus window
 - Fast scan speed** one frame per second TV frame
 - Slow scan speed** 6 steps synchronised from supply
 - Electronic rotation and tilt correction**
- **Imaging functions**
 - Image scan control
 - Split screen for two image display
 - Image capture and save to disk
 - Image Browser for image recall and examination
 - Image Processing
 - Image measurements

Control functions

- Automated electron optics column
- Auto gun alignment
- Auto compensation for HV change
- Auto contrast and brightness
- Auto focus
- Autostigmation correction
- Stage movement via trackball - option
- Microscope operation modes saved for recall
- Full help files

Dimension

Integrated unit



Record system

- Supplied as standard with 600dpi laser B/W printer
- Optional devices 1200 dpi laser printer
- Colour or B/W video printer (A6 to A4) size

Installation

- Mains** 220 V/50 Hz, max. 900 VA
- Air cooling**
- Vibration** < 1 μ m (5 Hz)
- Temperature** 15 to 30 degrees
- Magnetic environment** max 3 x 10⁻⁷ T
- Humidity** < 80 %

Options

- Integrated EDX spectrometer
- BSE detector
- STM module for operation in air or vacuum
- Image analysis software
- Motorized stage (X and Y) with trackball control

