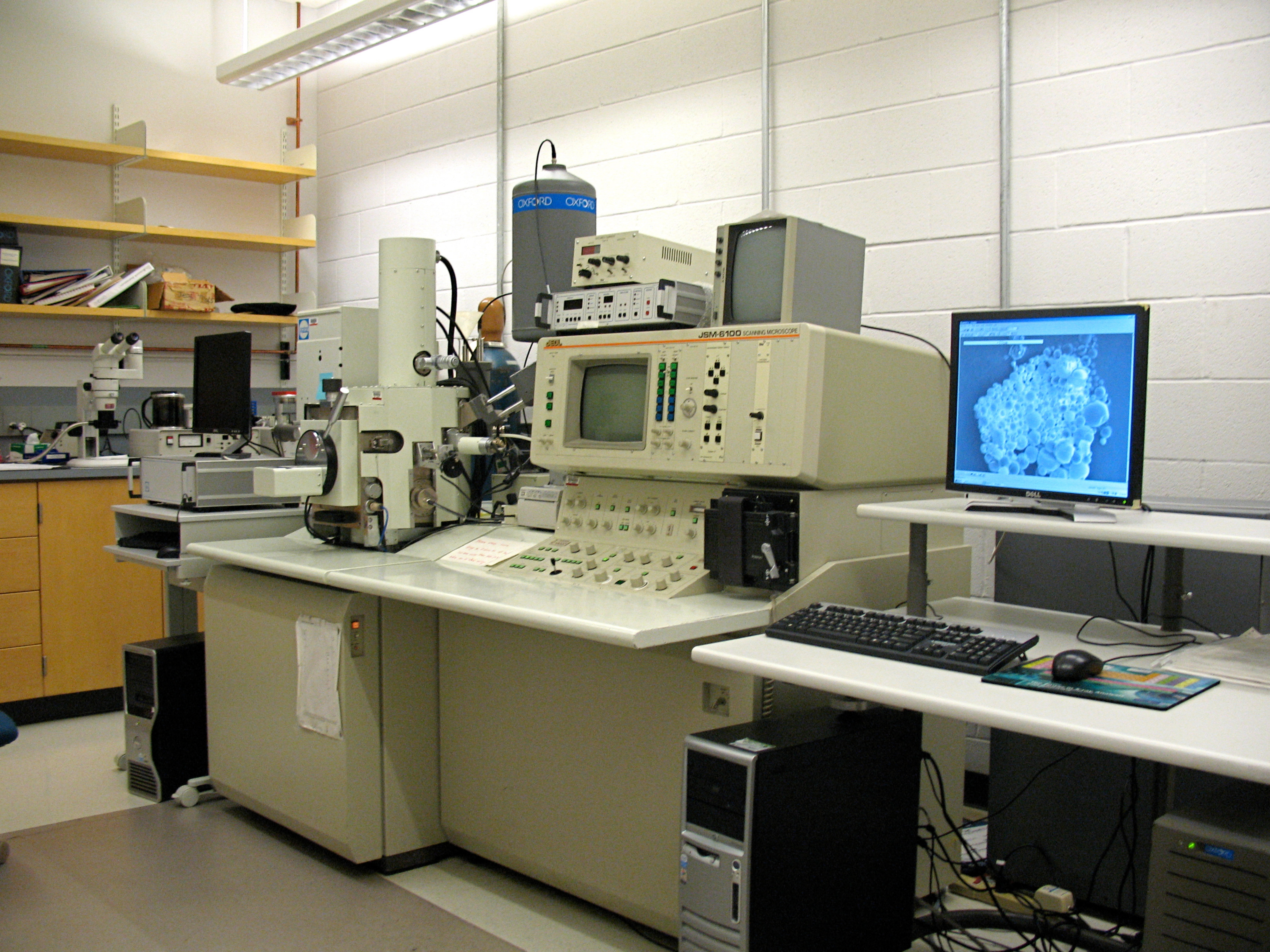




JSM-6100

Specifications and Installation Requirements

Principal Specifications

●Secondary electron image (SEI) resolution

4.0nm guaranteed [workind distance (W.D.)=8mm, accelerating voltage (Acc. V.)=30kV]

●Magnification

×10 (W.D.=39mm) to 300,000

●Image modes

SEI, REF image (backscattered electron image detected by SE detector)

●Accelerating voltage

0.3 to 3kV (100V steps), 3 to 30kV (1kV steps)

●Probe current

10^{-12} to 10^{-6} A.

●Auto focus

●Auto contrast and brightness control

Built-in

PIC (picture scan)/RDC (reduced area scan)/B-UP (bright up positioning)/LSP (line profile scan)/SPOT

●Scan speeds

TV, SLOW 1/2, PHOTO 1/2/3/4 (multi-frame exposure possible)

●Display modes

NORM (standard)/D-MAG (direct magnification)/Multi-display (option)/YZ-MOD (YZ-modulation)WFM (waveform monitor)

●Image processing system

Frame memory: $1024 \times 1024 \times 8$ bits $\times$ 4 frames (19 frames: option)

Buffer memory: $512 \times 512 \times 16$ bits $\times$ 2 frames

Functions: Averaging, integration, pixel accumulation, multi-image display (2-/4-division), histogram, image conversion, frame-to-frame calculation

●Full keyboard

Alphanumeric character display and storage, image processing function control

●Specimen stage

Eucentric goniometer stage. X direction 40mm (motor driven), Y direction 100mm (motor driven), Z direction 31mm (W.D.=8 to 39mm continuously variable), T (tilt) -5 to 90°, R (rotation) 360° endless (motor driven).

●External control*

JSM-6100 can be controlled externally via RS-232C.



Installation Requirements

●Power: 1-phase, 200V AC, 50/60Hz, 3kVA

●Cooling water: 2ℓ/min or more

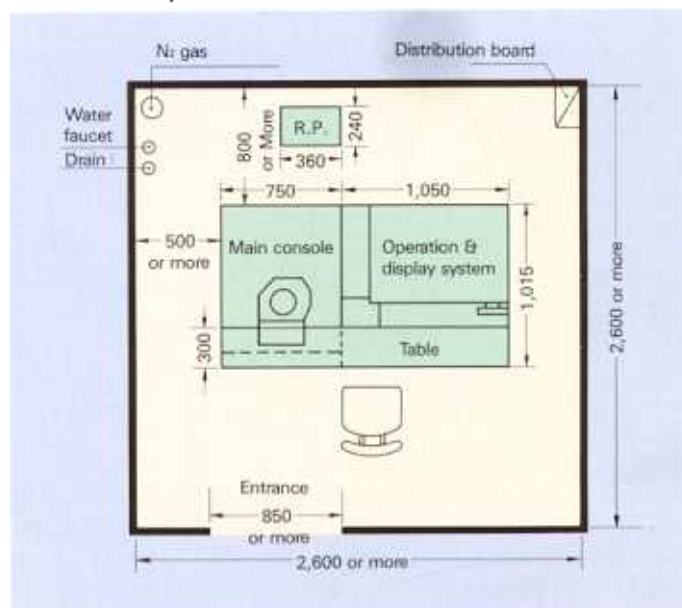
●Dry nitrogen gas: User provision

●Environment: Temperature $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$, humidity 60% or less

●Weight: Approx. 760kg

●Floor space: 2,600mm $\times$ 2,600mm or more

Installation Layout



Specifications subject to change without notice



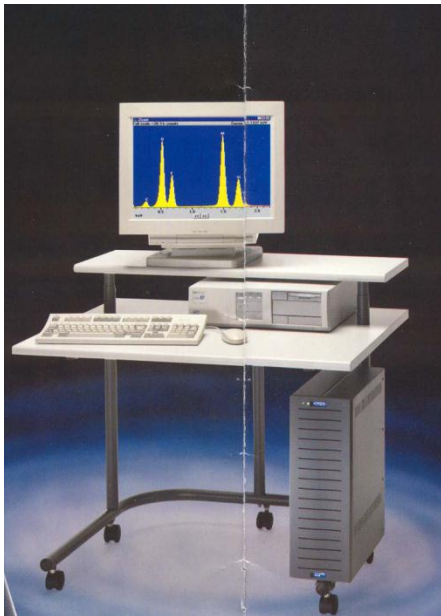
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●The export from Japan of the product introduced in this brochure requires the export permit by the Japanese government, according to the Foreign Exchange and Trade Control Law.

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Cathodoluminescence Spectroscopy

With Gatan's monoCL3 spectroscopy system, high-resolution, cathodoluminescence spectra (range 180nm-800nm) can be collected.



Oxford Energy Dispersive x-ray Spectrometer (EDS) for elemental analysis (B-U) and mapping.