Introduction of New Products

Field Emission Scanning Electron Microscope

**JSM-7100F**

The JSM-7100F is a versatile high performance analytical FE-SEM. The electron optics produces the maximum 200 nA probe current with the patented in-lens Schottky FEG and a small probe diameter even at large probe currents with the patented aperture angle optimizing lens. The objective lens is the field free type. This lens is suitable for high precision EBSD analysis and characterization of a magnetic specimen.

**Resolution**: 1.2nm (30 kV), 3.0nm (1 kV)
**Accelerating voltage**: 0.2 to 30 kV
**Magnification**: × 10 to 1,000,000

**Observation**
A variety of images, such as secondary electron images, backscattered electron images, and STEM images, are obtained. The stable Schottky field emission electron source ensures research with high quality images.

**Analysis**
Elemental analyses with EDS and WDS, and EBSD analysis are carried out efficiently. High precision analysis can be obtained with the stable electron probe.

*Specimen courtesy of Professor Andreas Stein Department of Chemistry, University of Minnesota*
The AccuTOF GCv 4G is a fully automated Gas Chromatograph Time-of-Flight Mass Spectrometer (GC-TOFMS). A data recording speed of 50 spectra/second enables high throughput analysis. A new high speed preamp and data acquisition system is capable of sampling TOFMS signal at 4 giga samples/second, twice faster than the previous system. It also enables more efficient high-resolution, high-accuracy analysis. An improved detection system has extended the practical mass range for FD ionization.

**Benchtop SEM**

**JCM-6000**

JCM-6000 NeoScope™ lets you observe a specimen at much higher magnification than a light microscope with the same simple operation of a light microscope. The observation image appears automatically when a specimen is inserted, and you can go up to the maximum magnification of ×60,000 quickly with the automated operations. JCM-6000 NeoScope™ is equipped with a TMP for quick start. The installation is easy. The wall outlet (100V AC) is the only utility needed. Cooling water is not necessary.

- Magnification: ×10 to 40,000
- Accelerating voltage: 15 kV/10 kV/5 kV

**High Performance GC-TOF MS**

**JMS-T100GCV**

**AccuTOF GCv 4G**

The AccuTOF GCv 4G is a fully automated Gas Chromatograph Time-of-Flight Mass Spectrometer (GC-TOFMS). A data recording speed of 50 spectra/second enables high throughput analysis. A new high speed preamp and data acquisition system is capable of sampling TOFMS signal at 4 giga samples/second, twice faster than the previous system. It also enables more efficient high-resolution, high-accuracy analysis. An improved detection system has extended the practical mass range for FD ionization.