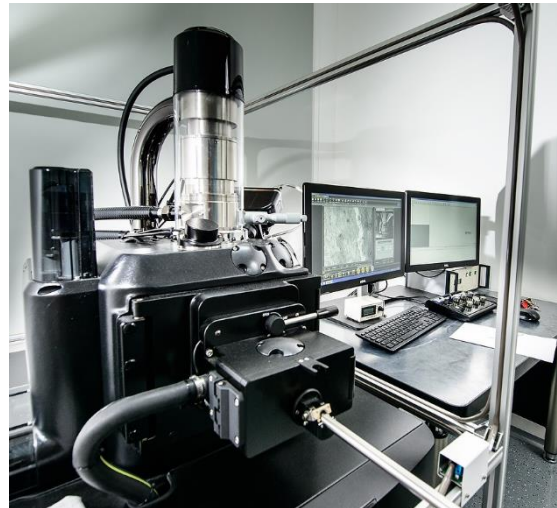


Scanning Electron Microscope JEOL JSM-IT300



Microscopy laboratory (371 A)

Main purpose

The Scanning Electron Microscope (SEM) is an essential tool in a broad range of applications, from research departments to on-site manufacturing locations, and is used for basic research, material developments, material testing/ assessment/ defect analysis, quality assurance, and analytic tests.

The JSM-IT300 series is a high-performance, multi-purpose SEM capable of handling a variety of applications. These instruments feature a newly-designed user interface that permits operations to be performed via a touch panel, further enhancing the ease-of-use, in addition to debuting a sleek new exterior design.

Main competitive advantages

- New electron-optical system offers high quality images for observation
- Applications expanded as a result of an improved low-vacuum observation function
- Multi-purpose chamber with the 5-axis motor-driven stage mounted in the standard configuration
- Various types of analyzers can be mounted simultaneously, and the opposing-type EDS can also be installed.
- Operability is further enhanced by the newly-designed user interface with support for touch screen operation
- Sophisticated design with the look and feel expected of high-performance instrument

Types of expertise

- pozorovanie metalografických vzoriek, fraktografických vzoriek, povrchovej morfológie vzoriek.
- dokumentovanie (fotenie vzoriek)
- meranie geometrických charakteristík vo všetkých osiach

Areas of operation

Basic research, material developments, material testing/ assessment/ defect analysis, quality assurance, and analytic tests.

Technical description

Large Chamber and Stage

Analytical Port Geometry

Fully Automated 5 Axis Motor Stage

Improved electron optics for higher image quality, faster imaging and analysis.

High vacuum mode

Less Charging

Low vacuum pressure range from 10 to 650Pa extends the range of materials that can be readily observed.

High Current mode, probe current up to 1 μ A (≥ 20 kV).



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