

VEGA\\SEM

The VEGA\\ series is a family of modern, fully PC-controlled scanning electron microscopes with a tungsten heated filament.

Specific Features of VEGA\\ SEMs:



- An innovative and powerful four lens Wide Field Optics™ design, offering a variety of working and displaying modes
- A range of chambers to suit all applications and a wide choice of supplementary accessories
- Fast and precise motorized specimen stages
- Excellent analytical qualities with optimized ports geometry
- Unique live stereoscopic imaging using the 3D Beam technology.
- Turbomolecular and rotary pumps ensure quick and easy sample exchange and short times to reach a working vacuum
- Sophisticated and easy-to-use software for microscope control using a Windows™ platform
- Fully automated microscope set-up.
- Comprehensive software for image archiving, processing, evaluation, and network operations comes as standard
- Minimal requirements on space, power supply, and environment
- Competitive price/performance ratio

Two Types of the Vacuum System are Offered:

VEGA HiVac

Conventional model operating at a high vacuum of approximately 1×10^{-2} Pa.

VEGA UniVac

Variable pressure SEM (VPSEM), which combines the advantages of the high vacuum model with extended facility for low vacuum operation. In low vacuum mode, nonconductive specimens can be examined in their natural, uncoated state, using all working modes of the optical system at pressures up to **150 Pa** and in Resolution mode at pressures up to **500 Pa** (operation at chamber pressures up to **2000 Pa** optionally available).

Detectors and Accessories

Tescan SEMs can be delivered with different chambers and stages, as well as a comprehensive range of optional accessories. Tescan works closely with all the SEM accessory vendors to ensure **compatibility and trouble-free integration**.

Installation Requirements

Demands on working conditions and on the minimum area necessary for the installation of the microscope are minimal.

Software Options

The microscope control software can be extended by other optional software modules according to the user's needs.

VEGA II Models

At present VEGA\ family includes 8 models of microscopes provided with various chambers according to the users' requirements concerning chamber size, stage movements precision and/or operation comfort. Abundant control software included in standard scope of delivery is one of the valued assets of the Vega microscopes.



High Vacuum Models:

- VEGA II SBH - small chamber, manual or semi-motorized stage
- VEGA II LSH - large chamber, standard motorized stage, mechanic suspension
- VEGA II LMH - large chamber, extended motorized stage, pneumatic suspension
- VEGA II XMH - extra large chamber, motorized stage with extra large movements, pneumatic suspension



Variable Pressure Models:

- VEGA II SBU - small chamber
- VEGA II LSU - large chamber, mechanic suspension
- VEGA II LMU - large chamber, pneumatic suspension
- VEGA II XMU - extra large chamber

Wide Field Optics™ is a trademark of TESCAN, s.r.o.

We are constantly improving the performance of our products, so all specifications are subject to change without notice