

HIROX SH-5500-P



**High Resolution and Analytical
Table top SEM**

HIROX SH-5500P

High Resolution Table top SEM

This electron microscope is the first premium table top SEM to combine a 5 axis fully motorized stage and a large chamber which allows to fit large samples. The high voltage is adjustable from 1 to 30 kV (6 steps).



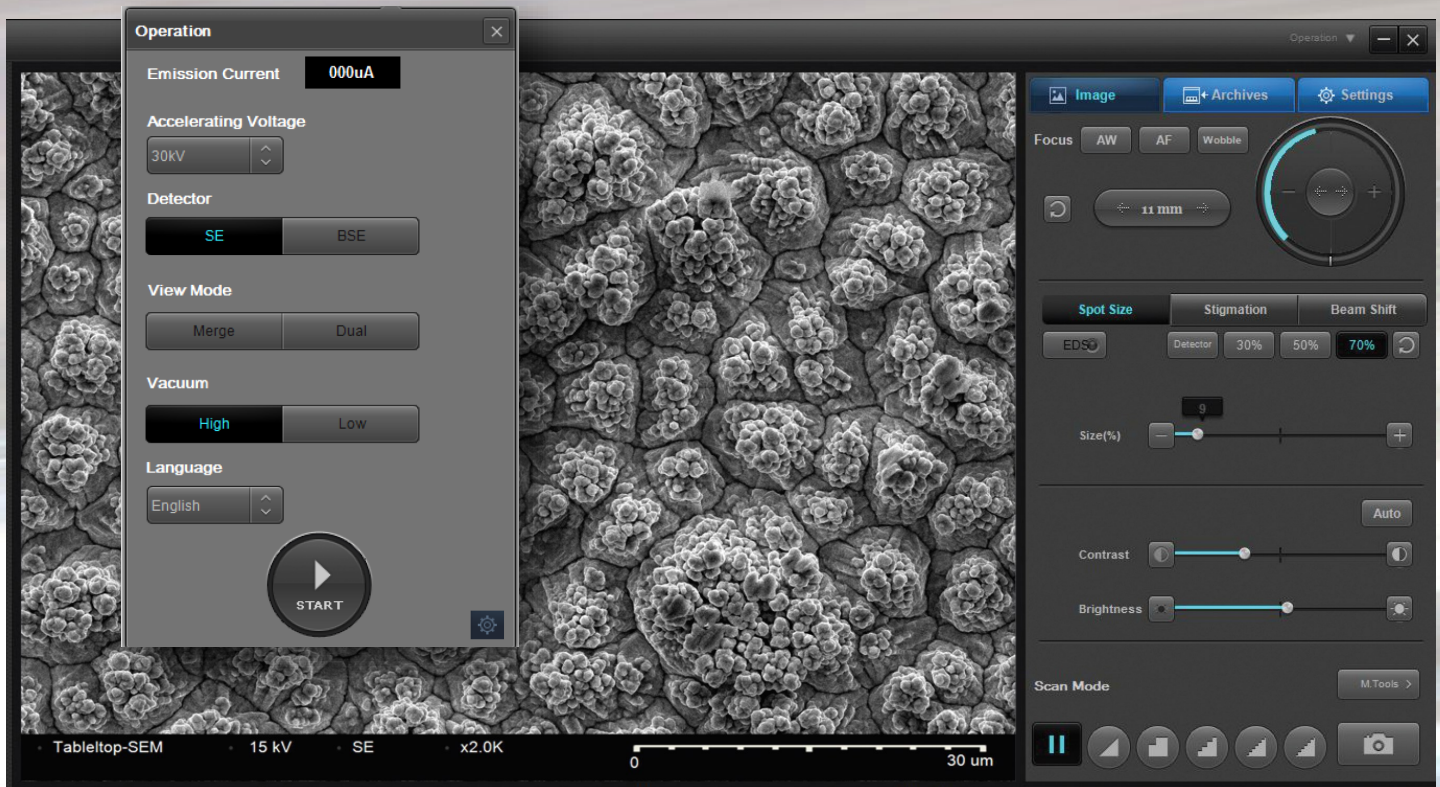
Computer controlled, powerful and compact



45 degree

- Window 10 compatible
- 5 axis fully motorized
- Tilt from -45 to 90 degrees allows a perfect observation of the sample.
- Allows 3D reconstruction with paired SE stereo images or from 4 BSE images
- 70 deg tilt for EBSD available (option)
- Maximum sample size : diameter 80mm, thickness 40mm.

X, Y, Z (40mm) Tilt (-15 to 90°), Rotation (360°)



Easy to use graphic interface

A CCD camera attached to the SEM allows to capture an image of the sample holder with the samples .

The image is automatically loaded in the SEM software .

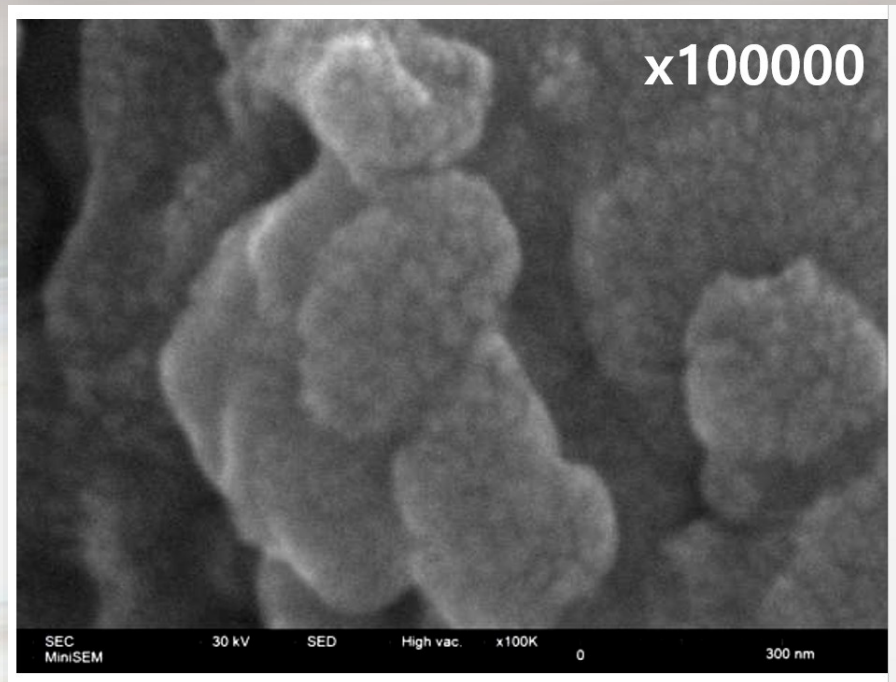
To move over the sample just click on the picture, the stage will move



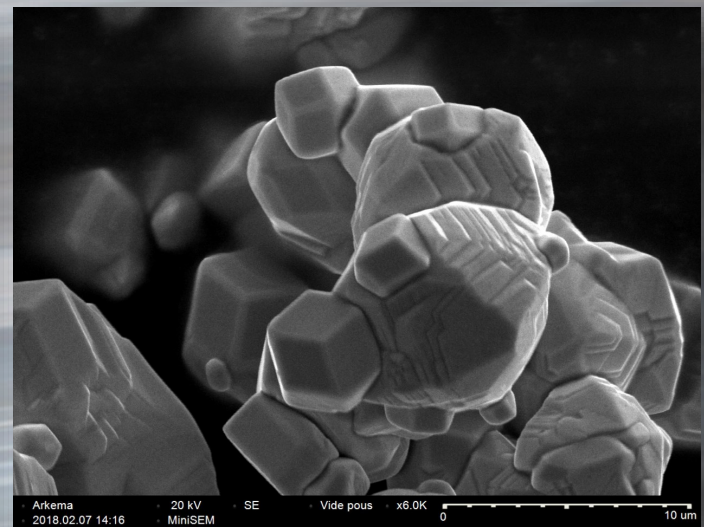
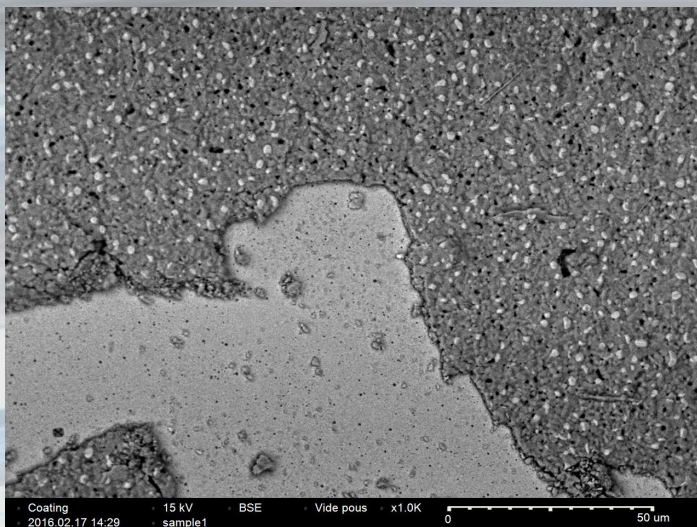
CCD camera with stage navigator

Standard specifications

- Up to 5120*3560 pixel image
- Beam resolution 5nm (SE)
- High magnification: X 150K
- 4 variable apertures and continuous variable spot size
- High Vac and Low Vac modes
- SE and BSE detector
- Dual mode
- 1 to 30 kV (6 steps 5kV)
- Automatic adjustments
- Stage navigator 5 axis



2 modes: High vacuum and Low vacuum



2 électrons detectors: SE and BSE (4 diodes)

The SH-5500P is ready for EDS (ESPRIT 2.1 by BRUKER) and also EBSD analysis both together.

Two models EDS are available:

QUANTX 100

Integrated silicon drift detector (SDD) nitrogen free

Detection from Boron to Uranium, 129ev Resolution 10 & 30 mm²

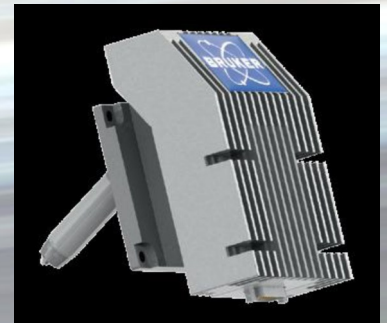
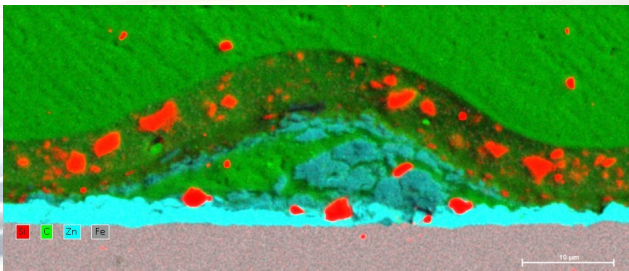
Qualitative and Quantitative analysis software

QUANTAX 100 Advanced

Multipoints and area spectrum acquisition

Line profile

X-ray mapping and spectral imaging



Integrated EDS from BRUKER Nano

Optional features

- Automatic particle analysis & Filter inspection v
- 3D reconstruction software (Mountains Map) v
- Cooling/heating stage compatible v
- EDS & EBSD compatible v
- In-Situ experiments v

Versatile chamber for special tools

Models	SH-3500	SH-4000M	SH-5000	SH-5500	SH-5500P
Product Images					
1. Resolution	15nm	15nm (SE) 20nm (BSE)	5nm	5nm (SE)	5nm (SE), 8nm (BSE)
2. Magnification	Max. 60,000x		Max. 100,000x	Max. 150,000x	
3. Voltage	1kv ~ 30kv(1/5/10/15/20/30)				
4. Detection	SE (Secondary Electron)	SE (Secondary Electron) BSE (Back scattered Electron)	SE (Secondary Electron) * BSE (Option)	SE (Secondary Electron)	SE (Secondary Electron) BSE (Back scattered Electron)
5. Electron Gun	Tungsten Filament(cartridge)				
6. Sample stage	X : 35mm, Y : 35mm, R : 360° / 3-axis (Manual) * X,Y,R Motorized - option * Tilt : 0~45° - option		X, Y : 40mm, R : 360° Z : 0~35mm, T : 0~45° - 5-axis (Manual)	X, Y : 40mm, R : 360°, Z : 0~50mm, T : -15~90° - 5-axis (Fully Motorized)	
7. Sample (Diameter/Height)	70mm / 30mm		80mm / 35mm	80mm / 50mm	
8. Vacuum System	High Vacuum	High & Low Vacuum	High Vacuum	High Vacuum	High & Low Vacuum

5 models : a complete range of table top SEM

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SYNERGIE⁴

Le service avant tout...

pour votre satisfaction !