

Sample Holder and Inserts

Optimized sample loading optimizing your output

For both the Phenom™ G2 pure and Phenom G2 pro a large variety of sample holders is available in order to extend the sample acceptance. These holders are designed for optimizing sample loading speed and guarantee the fastest time to image available in the market.

Standard Sample Holder

The ultimate high resolution sample holder, standardly shipped with every Phenom system. Optimized for best imaging results and can accommodate 3D type samples mounted on standard sample pin stubs.



Charge Reduction Sample Holder

Is designed to reduce sample charging. This sample holder eliminates extra sample preparation of non conductive samples. Imaging samples like paper, polymers, organic materials, ceramics, glass and coatings becomes fast and trouble free.



Metallurgical Sample Holder

The base of this holder is equal to the Standard Sample Holder, except that this holder is designed to support resin mounted samples (schlieffen). For metallurgy and working with inserts this holder is the preferred solution.



Metallurgical Charge Reduction Sample Holder

This sample holder eliminates extra sample preparation of non conductive resin mounted samples. This way imaging samples becomes fast and trouble free.



Micro Tool and Tilt-Rotation Sample Holder

Imaging long axial shaped samples without sample modification is now possible. Imaging objects such as drill bits, milling tools and injection needles is fast and easy using the Micro Tool and Tilt-Rotation Sample Holder. Imaging coatings and cutting angles is possible by rotating and tilting the region of interest without unloading the sample from the holder.



The inserts below are used in combination with the Metallurgical Sample Holder or Metallurgical Charge Reduction Sample Holder:

Insert X-view

Cross section imaging of coatings and multilayer samples becomes fast and easy with this metallurgical insert. Its smart split clamping mechanism eliminates the need for screws and tools to clamp the sample.

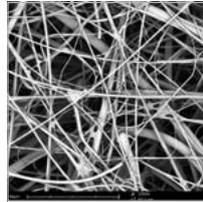
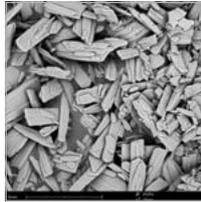


Micro-electronics insert

The micro-electronics insert is designed to image for semiconductor, micro-electronics or solar cells. Its unique clamping mechanism enables loading without adhesives or surface contact.



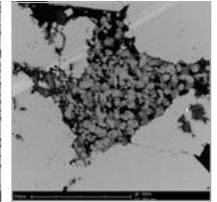
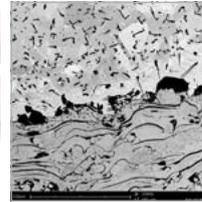
Standard Sample Holder



Pharmaceutical powder

Hepa dust filter

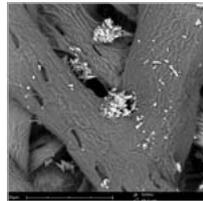
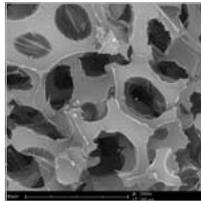
Metallurgical Sample Holder



Plasma spray coated steel

Reservoir Sandstone

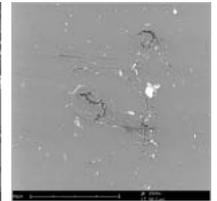
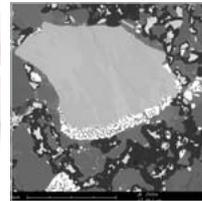
Charge Reduction Sample Holder



Polymer filter, imaged in its original state

Image of uncoated paper, no charging is visible and image details are still clear

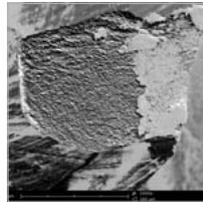
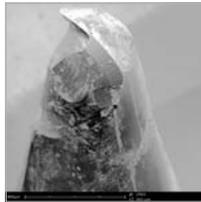
Metallurgical Charge Reduction Sample Holder



Ceramics

Defect in glass

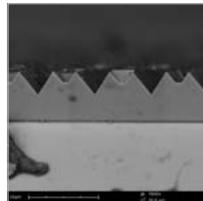
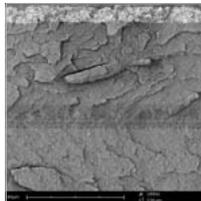
Micro Tool and Tilt-Rotation Sample Holder



Top of drill bit at 45° tilt angle

Drill bit focused on defect

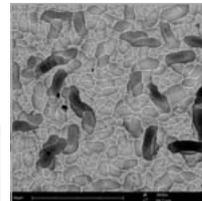
Insert X-view



Cross-sectional image of credit card showing three different layers

Cross-sectional image of micro-device

Micro-electronics insert



Quality inspection image of front-side texture of solar cell

Micro-electronic device