Polycapillary X-ray Optics for Micro XRF and XRD

These state-of-the-art optics capture a large solid angle of X-rays from a source and redirect them to a micron-sized focal spot or highly collimated beam. The use of polycapillary optics can significantly enhance the performance of X-ray analysis in many applications, including X-ray fluorescence (XRF) and X-ray diffraction (XRD).

Features
• X-ray flux density gain up to 10,000 times greater than conventional pinhole collimator
• Focal spot as small as 5µm
• Broad spectral bandwidth: 10eV-50keV

Benefits
• Customizable optic design for optimal performance
• Halo reduction optics optimized for high-energy applications
• Increased analytical speed in micro XRF for fine-feature analysis and high-resolution mapping
• Large, quasi-parallel X-ray beam for XRD and XRF

Applications
• Micro XRF for elemental mapping, plating thickness and fine feature analysis
• Micro XRF, micro XAS and confocal XRF
• Powder XRD, texture and stress analysis, WDS and confocal XRF