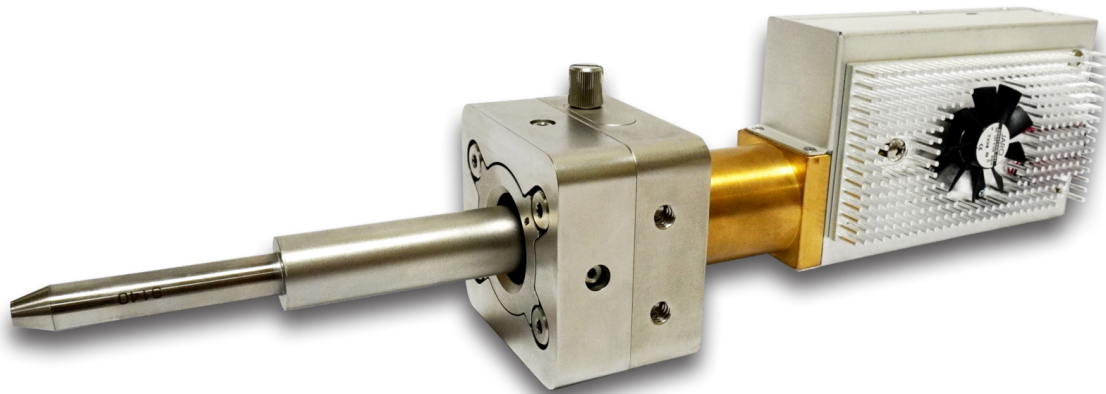


# Compact, Yet Mighty: Meet Mini-Beam

Mini-Beam™ is a compact and powerful X-ray generator for advanced material analysis. Enabled with a low-powered monoblock X-ray source, Mini-Beam's portable stature and customizable specifications make it an excellent solution for various remote applications, such as art conservation.

## Mini-Beam



### Industry-Leading Performance

- Mini-Beam's intensity is up to 1,000 times greater than conventional pinhole collimators
- Focal spot as small as 5 $\mu$ m @ Rh Ka (20.162keV)
- Integrated removable filter for simple filter material swapping

### Simple Integration

- Mini-Beam seamlessly integrates into various systems and features USB connectivity.

### Easy Serviceability & Field-Alignment

- Innovative design allows for the ability to interchange different optics, as well as service the X-ray source in the field

## Standard Mini-Beam Models

Highly Focusing Optics					<b>Typical Applications: Micro XRF</b> <ul style="list-style-type: none"> <li>- Small Feature Analysis</li> <li>- Film &amp; Plating Thickness</li> <li>- High-Resolution Elemental Mapping</li> </ul>
	Mini-Beam PF-004	Mini-Beam PF-010	Mini-Beam PF-020	Mini-Beam PF-050	
<b>Output focal distance (mm, from enclosure)</b>	4	10	20	50	
<b>Output beam intensity at 50kV/10W (photons/s, Ag Ka, 22.16keV)</b>	5.0E+04	1.0E+05	2.0E+05	4.0E+05	
<b>Focal spot size* (μm, FWHM, @ Ag Ka)</b>	15	25	50	100	

Highly-Collimating Optics					<b>Typical Applications: XRD &amp; WDS</b> <ul style="list-style-type: none"> <li>- Powder Diffraction</li> <li>- Texture &amp; Strain Measurement</li> <li>- Wavelength-Dispersive Spectrometer</li> </ul>
	Mini-Beam PC-004	Mini-Beam PC-006	Mini-Beam PC-010	Mini-Beam PC-015	
<b>Output beam diameter (mm)</b>	4	6	10	15	
<b>Output beam intensity at 50kV/10W (photons/s, Ag Ka, 22.16keV)</b>	5.0E+05	1.0E+05	2.0E+06	3.2E+06	

## Custom Solutions

Mini-Beam™ is customizable for a variety of applications that require a portable, low-powered X-ray generator, eliminating the need for extensive in-field setups for remote needs. To begin customizing a Mini-Beam for your unique application, contact XOS today.

### Technical Specifications

<b>Available Targets*</b>	Ag, Rh, W, Cu, and Cr
<b>Tube Type</b>	Metal-ceramic
<b>Tube Operating Temperature</b>	-10 to +50 C
<b>Cooling</b>	Forced air
<b>High Voltage Potential</b>	4 to 60kV
<b>Beam Current</b>	5 to 200μA
<b>Maximum Power</b>	12 watts
<b>Input Power</b>	110V/220VAC, 50/60Hz
<b>Standard Warranty</b>	One year
<b>Minimum Dimensions</b>	12 x 4 x 3 inches
<b>Weight</b>	4.3 lbs

\*Other target materials may be available upon request.