

60kV and 70kV MAGPRO®

12W powerful monoblock end-window sources



TUB0014X/0015X
60 kV and 70 kV MAGPRO® end-window

Applications

- X-ray imaging (CT), fluorescence (XRF) and diffraction (XRD)
- Metal and alloy sorting
- Material structure properties
- Mining and geology
- Environmental analysis
- Lead in paint
- Regulatory (RoHs and WEEE)
- Art and archaeometry
- Small animal imaging
- Security and radiographic inspection

MOXTEK 60 kV and 70 kV MAGPRO® X-ray sources are designed for portable and benchtop X-ray instruments. Their focal spot size is ideal for X-ray imaging and mapping applications with full configuration versatility.

MECHANICAL SPECIFICATIONS

Tube type: metal-ceramic
Operating temperature: -10°C to +50°C
Storage temperature: -20°C to +85°C
Cooling: forced air
Weight: ~850-900 g

TECHNICAL SPECIFICATIONS

MOXTEK 60 kV and 70 kV MAGPRO® X-ray sources are designed for portable and benchtop X-ray instruments. Their focal spot size is ideal for X-ray imaging and mapping applications with full configuration versatility.

	60 kV XRF W/COLLIMATOR	70 kV IMAGING W/COLLAR	70 kV XRF W/COLLIMATOR
Available targets	Ag, Mo, Rh, W	Ag, Cr, Cu, Mo, Rh, W	
HV polarity	Grounded anode		
High voltage	Up to 60 kV	Up to 70 kV	
Beam current (depends on target)	10 µA to 1000 µA (@ 5 kV)	10 µA to 240 µA (@ 50 kV)	10 µA to 300 µA (@ 40 kV)
Maximum power	12 W		
Input power	24 VDC, 1.1 A		
Typical focal spot	~400 µm	~500 µm	
X-ray cone angle	~48°	~86°	~48°
Maximum radiation leakage	2 mR/h @ 50 mm	2 mR/h @ 50 mm	10 mR/h @ 50 mm
Average lifetime	2000 operating hours		

MAGPRO® TUBE CONFIGURATION

	Suggested application	TUB#	Angle	Control type	Target available
			XX		XXX
60 kV	XRF W/COLLIMATOR	TUB0014X-XXX	Straight (S) 60° deg (6) 90° deg (9)	Analog (A) I ² C (I) SPS (S)	Ag, W, Mo, Rh
70 kV	IMAGING W/COLLAR	TUB00153-XX-XXX	Straight (S) 60° deg (6) 90° deg (9)	Analog (A) I ² C (I) SPS (S)	Ag, W, Cr, Cu, Mo, Rh
70 kV	XRF W/COLLIMATOR	TUB00154-XX-XXX	Straight (S) 60° deg (6) 90° deg (9)	Analog (A) I ² C (I) SPS (S)	Ag, W, Cr, Cu, Mo, Rh

MAGPRO® MECHANICAL DRAWINGS

