X5000®

NORTH STAR IMAGING
NSI
AN ITW COMPANY

Versatile & Configurable X-ray System

2D Digital Radiography & 3D Computed Tomography

450 kV	47 in	32 x 48 in
Maximum X-ray Energy	[119.4 cm] Maximum Focal Distance	[81 x 121 cm] Nominal Part Envelope

Flexibility to Choose

The X5000 has a large scanning envelope for larger parts while maintaining the ability to inspect small components. The system also has an ergonomic loading feature to easily load large parts. North Star Imaging's team of experts will help you select the best system configuration for your application.

System Features

DICONDE	Compliant
Process Controls	Integrated
Advanced Imaging Modalities	SubpiX MosaiX VorteX Ring Reduction
efX Software Suite	Integrated
Motion Control	Integrated
RobotiX Loader	Optional

X-Ray Source

Voltage Range	10–450 kV
Minimum Focal Spot Size	~900 nm
X-Ray Tube Types	Nanofocus Microfocus - Reflection Microfocus - Transmission Microfocus - Dual Head Minifocus
Dual Tube Configuration	Optional

X-Ray Detector

Detector Types		Flat Panel (DDA) Linear Diode Array (LDA)
Grade Options		Premium Superior (ASNT)
Pixel Pitch Range	*DDA* *LDA*	100–200 µm 200–400 µm
Maximum Size	*DDA* *LDA*	17 x 17 in [43.2 x 43.2 cm] 36.3 x 0.03 in [92.2 x 0.08 cm]
Dual Detector Configuration		Optional

Manipulator

Maximum Sample Weight		500 lb [227 kg]
Part Travel	*Horizontal*	48 in [121 cm]
	Vertical	32 in [81 cm]
	Source to Detector	48 in [121 cm]
	Tilt	+20°/-20°
	Rotation	360° Continuous
Nominal Part Envelope		32 x 48 in [81 x 121 cm]
Maximum Focal Distance		47 in [119.4 cm]

Cabinet

Width		115 in [292 cm]
Depth		80 in [203 cm]
Height		98 in [249 cm]
Weight	*240 kV*	14,800 lb [6,170 kg]
	450 kV	29,000 lb [13,200 kg]

Exact specifications vary depending on source, detector, and other optional configurations.

All cabinets are steel/lead/steel construction that meets or exceeds 21 CFR 1020.40 and EN 61010-2-091 2012.

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