

Nikon — Specification Details

— 40 C 450 System

- 7 Axis Granite based manipulator, dual source, up to dual detector, in 1-piece shielded cabinet
- 7 Axis precision manipulator
- Metrology grade granite foundation
- Precision servo control and encoders
- Precision rotational stage for accurate CT acquisition
- 275kg max sample weight for DR and CT N26 (centered load)
- Manipulator travel: X = 1130mm, Y = 1300mm, Z = 1600mm, Rotate = 360°
- Max FID: 1480mm (Varex XRD 4343N detector, 225kV), 1520mm (Varex XRD 4343N detector, 450kV), 1200mm Fixed (CLDA, 450kV)
- Max sample swept diameter in single FOV: 360mm (Varex XRD 4343N detector, 225kV/450kV), 570mm (CLDA, 450kV)
- Up to 3-position panel shift (Optional add-on upgrade required)
- Add panel shift upgrade to enable up to 3-position panel shift
- Increases scanning diameter by allowing up to 3 sets of projections to be captured with detector in mirroring offset positions
- Max sample swept diameter with 3-position panel scan: 575mm (Varex XRD 4343N detector, 225kV), 800mm (Varex XRD 4343N detector, 450kV)
- Dual source mount
- Up to dual detector mount
- Provides for mounting both an area detector and a CLDA on a motorized vertical positioning assembly
- Either detector can be automatically positioned for alignment with the X-ray beam
- Shielded X-ray enclosure: L = 3617mm, W = 2057mm, H = 2743mm, Weight = 20000kg
- System computer (WinOS 64bit) with 16GB RAM and single high definition flat screen monitor
- Inspect-X system control software
- Image processing, Fast CT, Limited angle CT, Joystick control

— Nikon 225 kV microfocus source with reflection target

- 225kV, 225W high power X-ray source with reflection target
- X-ray focal spot size from 3 microns up to 7W
- Open tube with replaceable Tungsten filament for low cost of ownership
- Basic copper filter kit
- MRA (Motorized Receptacle Alignment) improves speed of alignment after filament change