

Technical specifications and configurations

	Phoenix Speed scan HD
Xray tube type	Open directional high-power microfocus X-ray tube with closed cooling water circuit
Maximum voltage/power	240 kV/100 W
Geometrical magnification (3D)	Up to 8x
Best detail detectability	20 µm, even 10 µm with optional Dynamic 4I 100 detector
Best Voxel size	25 µm, even 12.5 µm with optional Dynamic 4I 100 detector
Detector type	Temperature stabilized Dynamic 4I 200p+ large area detector with superior image and result quality, 410 x 410 mm (16" x 16"), 200 µm pixel size, 2,036 x 2,036 pixels (4 MP), extremely high dynamic range > 10,000:1
Focus detector distance	800 mm
Maximum part diameter and height	150 mm x 200 mm
System dimensions (W x D x H)	~2,310 mm x 2,200 mm x 2,055 (without external components)
Maximum part weight	2-4 kg, depending on the application
Maximum focus object distance	500 mm
System weight	7,850 kg
Temperature stabilization	Active X-ray tube cooling temperature stabilized detector
Filter changer	Up to 10 filters hosted for automatic filter setting adjustment during part mix scanning
Production edition	Fully automated robot-based workflows
Software	Phoenix Datas x 3D computed tomography acquisition and reconstruction software incl. fully automated CT process chain. Optional 3D evaluation software packages available upon request for 3D metrology, failure analysis, and structural analysis
Radiation protection	Radiation safety cabinet for full protective installation without type approval according to German StrSchV/StrSchG and in compliance with French NFC 74 100 and US Performance Standard 21 CFR Subchapter J. For operation, other official licenses may be necessary
Automated defect recognition (ADR)	Waygate proprietary automated defect recognition software with a focus on battery overhang detection
Barcode/matrix code reader	Reader for part identification
Optional features	
Detector	Temperature stabilized Dynamic 4I 100 large area detector with superior image and result quality, 410 x 410 mm (16" x 16"), 100 µm pixel size, 4,000 x 4,000 pixels (16 MP), extremely high dynamic range > 10,000:1
NAS storage with optional UPS	Network attached storage (NAS) in air-conditioned PC rack with optional uninterruptible power supply
Metrology solution	Two (2) calibration objects for enhanced accuracy in combination with optional 3D measurement software packages available upon request for 3D metrology, failure analysis, and structural analysis
Dual-stage manipulation	Four-axis precision manipulation with two independent rotation stages for faster part handling
Flash!™ image optimization	Providing outstanding image enhancement on 2D images
Speed feed	Advanced loading unit with 40 manually loadable compartments for semi-automatic inspection operation