



CT-ALPHA

This system meets the most stringent demands in CT X-ray. With the CT-ALPHA, we offers the highest possible flexibility for individual customer requirements.

This space-saving system can be equipped with different X-ray powers, from 160kV for nanometer resolution through 225 kV, 320 Watts to the highest power of 320 kV, 800 Watts.

The variable focus-detector distance permits maximum contrast. As an option, the CT-ALPHA offers the Helix-Scan technique for longer objects as well as for the best avoidance of volume CT artefacts for optimum results in dimensional measurement.

Very large geometric magnifications permit real-time reconstructions in the submicron range. The CT-ALPHA system is ideal for non-destructive testing, materials investigations and, in particular, dimensional measurements of internal structures, undercuts and free form surfaces.

Features

- ▶ Industrial X-ray Computed Tomography (CT)
- ▶ 3D volume CT
- ▶ Non-destructive testing (NDT) – 2D and 3D
- ▶ Quality control independent of material
- ▶ Defect recognition (voids, cracks, ...)
- ▶ Contactless metrology
- ▶ CT reconstruction in real-time
- ▶ Ring artefact suppression
- ▶ Helix CT
- ▶ Easy operation
- ▶ Radiation safety better than 1 μ Sv/h

	Standard	Advanced	Metrology
X-ray voltage	160 kv	160 kv	225 kv
Detector	50 μ m, 1 K ²	33 μ m, 9 K ²	100 μ m, 8 K ²
Specimen	70 mm, 5 kg	70 mm, 20 kg	300 mm, 50 kg
Axes	5	5	5
Reconstruction	1 K ³ , real-time;	1 K ³ , real-time; 27 K ³ , off-line	1 K ³ , real-time; 32 K ³ , off-line
Smallest 3D detail	1 μ m	0.33 μ m	0.25 μ m
System weight	2100 kg	2300 kg	2600 kg