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 nondestructive 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 µSv/h

	Standard	Advanced	Metrology
X-ray voltage	160 kv	160 kv	225 kv
Detector	50 µm, 1 K²	33 µm, 9 K²	100 µm, 8 K²
Specimen	70 mm, 5 kg	70 mm, 20 kg	300 mm, 50 kg
Axes	5	5	5
Reconstruction	1 K³, real-time	1 K³, real-time; 27 K³, off-line	1 K³, real-time; 32 K³, off-line
Smallest 3D detail (voxel)	1 µm	0.33 µm	0.25 µm
System weight	2100 kg	2300 kg	2600 kg

ASF Metrology s.r.l.
Corso Orbassano 402/16
10137 Torino - Italy
tel. +39 011 3148050
www.asfmetrology.com
info@asfmetrology.com