



CT-COMPACT

The most versatile desktop system for 3D-CT requirements. We enable the CT-COMPACT, performing as the most flexible micro CT system on a bench.

The space-saving CT-COMPACT can be equipped with micro-focus X-ray tubes capable of operation up to 160 kV, depending on specific customer requirements. The focus-detector distance can be adjusted to optimize the contrast.

A range of flat panel detectors is available, enabling the highest magnification. Due to the horizontally oriented X-ray beam, the CT scan remains uninfluenced by gravity.

The CT-COMPACT system is ideal for non-destructive testing, materials analysis, metrology and, rapid prototyping. Due to our cabinet temperature concept the CT-COMPACT holds the certificate of proven measurement uncertainty, by Q-DAS.

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
- ▶ Easy operation
- ▶ Radiation safety better than 1 μ Sv/h
- ▶ Desktop system

| | Standard | Advanced | Metrology |
|-----------------------------------|------------------------------|--|-------------------------------|
| X-ray voltage | 130 kv | 150 kv | 160 kv |
| Detector | 50 μ m, 1 K ² | 50 μ m, 4 K ² | 200 μ m, 1 K ² |
| Specimen | 70 mm, 5 kg | 70 mm, 20 kg | 150 mm, 30 kg |
| Axes | 3 | 3 | 4 |
| Reconstruction | 1 K ³ , real-time | 1 K ³ , real-time; 8 K ³ , off-line | 1 K ³ , real-time; |
| Smallest 3D detail (voxel) | 5 μ m | 2.5 μ m | 5 μ m |
| System weight | 500 kg | 600 kg | 750 kg |