

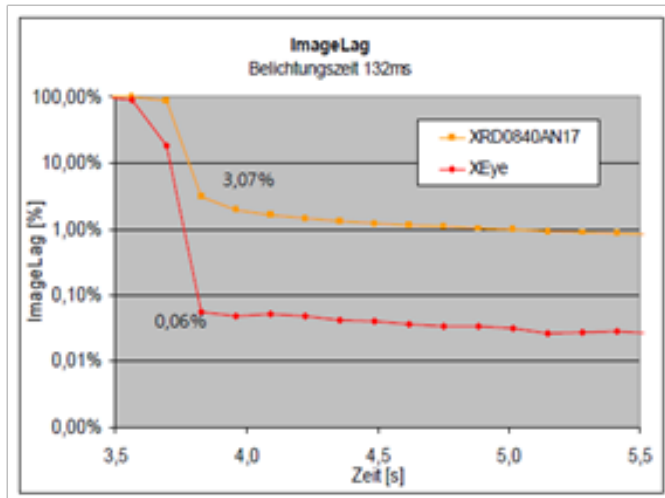
Microfocus, High Speed 3D X-Ray Computed Tomography CT-500

Micro Focus 3D Computed Tomography

The CT500 offers micro focus resolution, ($< 1 \mu\text{m}$ voxel resolution) 3D computed tomography with 160 kV or 225 kV open tube x-ray source, suitable for the applications in materials science, micromechanics, electronics and biology.

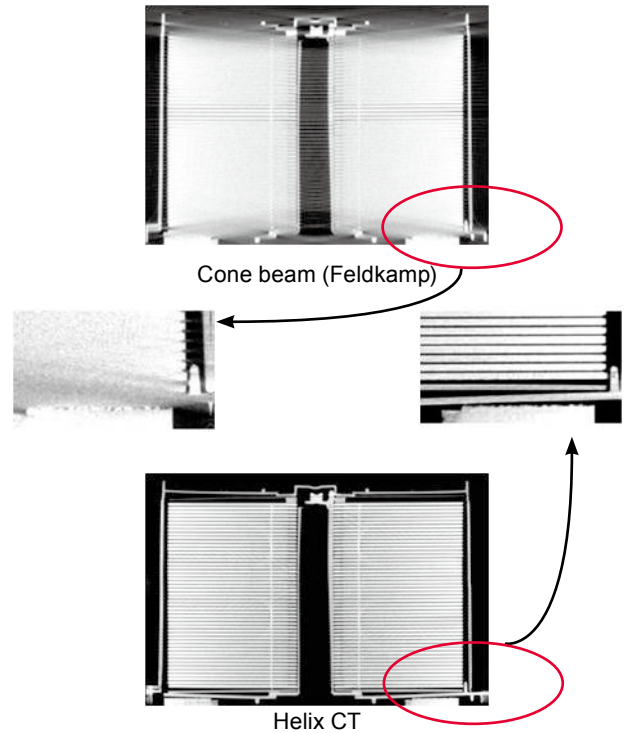
XEye camera

The CT500 incorporates a “wear less” long life XEye detector with a 2 year Warranty. The detector is manufactured in such a way as to have no pixel or line defects which yields ring artefact free CT measurements. The 16 bit detector in the XEye camera comes standard with a 2K x 2K pixel resolution. The XEye Detector has the lowest image lag of any detector in the industry ($< 0.06\%$ at 132ms after the last image is captured).



Helical Scanning (Optional)

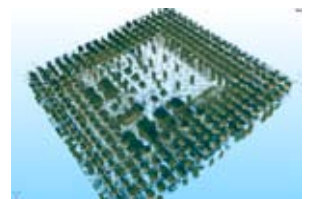
The Helix CT system is capable to capture thin layer objects, with definitive separation of layers, while the conventional CT Process yields distorted and unclear images.



High speed reconstruction algorithm

The Fraunhofer EZRT 3D reconstruction algorithm offers faster and accurate 3D reconstruction.

By using a separate PC for image acquisition and CT reconstruction we are able to process the data during the imaging process.



High Accuracy and stable system

The system design incorporates a granite base to provide vibration damping resulting in very high accuracy. The shock absorption design isolates the sampling process from the production environment for best image quality. A built-in active cooling system eliminates any distortion from any heat effect during the acquisition process. The motorized sample holder rack facilitates setting up the samples and the built-in Webcam allows for viewing the position of the sample. The horizontal orientation of X-Rays allows for inspection of different type samples.

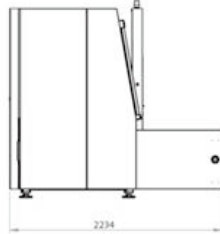


Dimensions

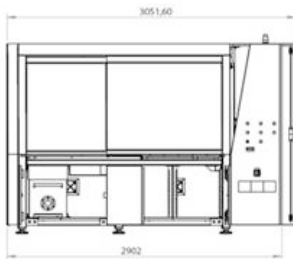
Front View



Side View



Rear View



Top View

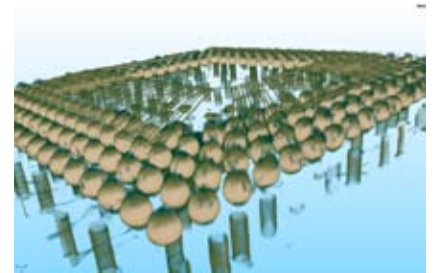
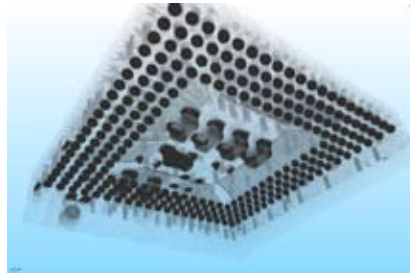
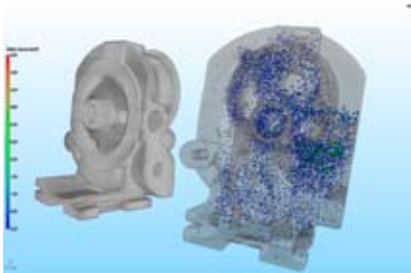


System Specifications

Model	CT-500
X-ray source output	160kV or 225kV open tube
X-ray leakage	<0,2μS/h
Feature recognition	down to 1μm
Voxel resolution	down to 1μm
Detector	16 bit; Dynamic approx. 10.000:1
Max. sample size	< 150mm
Max. sample weight	< 15kg
Computer system	Windows based industrial PC-Cluster
Display	24" Flat Screen

System Requirements

Electrical power requirements	230V 50/60Hz, 16A
Temperature/ Humidity	15°C (59°F) to 30°C (86°F) / 15 to 80% RH (Non-condensing)
Machine physical dimensions (L x W x H)	approx. 2500mm x 1300mm x 2000mm
Machine weight	approx. 4.300kg



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