

# DeskTom CT Scanner

## 3D Micro Computed Tomography & Digital Radioscopy System



### Compact CT Scanner with Ultra 3D Accuracy and Resolution

DeskTom CT Scanners are compact x-ray inspection (CT) machines allowing collection of complex internal and external geometry. Parts fabricated from materials such as plastics, ceramics, composites, aluminum, iron and steel can be measured and efficiently evaluated. Internal structures and assemblies as well as fiber analysis and porosity can easily be visualized, analyzed and documented.

### Real Time Scanning for Fast Measurements

- Attain measurements in real time with high resolution digital radioscopy

### Attains Highly Precise Measurements

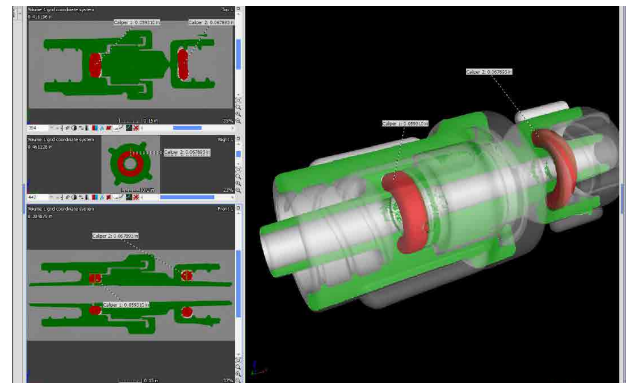
- Capture highly accurate measurements at +/- 10µm Accuracy with Resolution to 4µm
- High accuracy motorized rotation and 3 Axis translations

### Provides Easy-to-Use 3D Scanning Capabilities and a Compact Footprint

- 3D micro and computed tomography system
- No maintenance (Sealed Micro-focus tube) 130-150 kV
- Easily program precision motorized motions axes (X,Y, Z, Rotary) programmable

### Versatile for a Variety of Applications and Parts

- Easily verify structure of 3D printed metal parts
- Attain external and Internal Surface Geometry output as .STL for use with popular 3D Scan Data Processing software
- Add an optional 3D Visualization and post processing software suite to fit any application: Inspection, Reverse Engineering, Analysis, Porosity, Fiber Alignment, Wall Thickness, Comparison to CAD 3D Color Maps and much more.
- Full inspection volume (ØxH)\*: 18 cm (7") x 25 cm (9.8")
- Larger Work Volumes available with EasyTom CT Systems



## Scanning Capabilities

**Highest Resolution** 4 µm (JIMA & QRM Charts)

**Maximum Scanned Volume (ØxH) \*** 180 mm x 250 mm

**Maximum Sample Weight** 2 kg

\* The sample size can exceed the maximum scanned volume

## Mechanical Specifications

**Cabinet Dimensions (HxWxD)** 1800 mm x 1250 mm x 800 mm

**Total Weight of the System** 650 kg

**Vertical Axis** 150 mm

**Lateral Axis** 150 mm

**Zoom Axis** 520 mm

**Generator to Detector Distance** 610 mm

## X-ray Generator

Microfocus sealed tube	Option 1	Option 2
Maximum Voltage	130 kV	150 kV
Maximum Power	39 W	75 W
Minimum Focal Spot Size	5 µm	

## X-ray Detector

**Flat Panel** Active Area: 20 cm x 25 cm  
(Other detectors available on request) Pixel Pitch: 127 µm  
Pixel Matrix: 1920 x 1536  
Frame Rate: 1-60 fps

## RX SOLUTIONS CT SOFTWARE: X- ACT

**CT Acquisition** CT Acquisition Modes: conventional, helical, stack, laminography, continuous or step by step rotation. Ergonomy: wizard mode for non experts, automation mode for single click acquisition to inspection workflow. Radiography filter enhancement, 2D video sequence acquisition, 3D measurements. Automatic black and gain calibration & sample repositioning.

**CT Reconstruction** Real time artifacts corrections: focal spot drift, ring artifacts, beam hardening, phase contrast. Geometry compensation: automatic correction of the rotation center and other geometric parameters. Easy and intuitive 3D optimization of the reconstruction volume using test slices. On the fly reconstruction of a running acquisition.

## Workstations

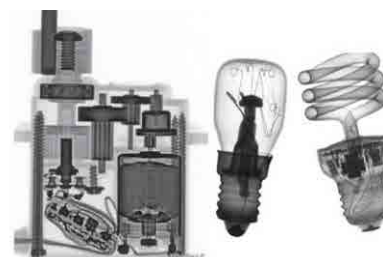
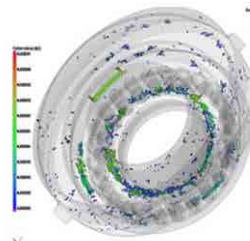
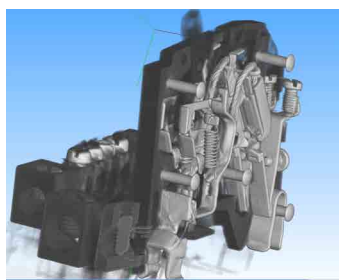
System-integrated acquisition workstation. Standalone reconstruction workstation with powerful GPU.

## Analysis Software (Optional)

VGStudio or VGStudio MAX: 3D Visualization and post-processing software with metrology, CAD comparison, porosity, and wall thickness analysis module

\*\*X-ACT Software is from RX Solutions SAS - VGStudio and VGStudio MAX is from Volume Graphics, Inc.

Manufactured by RX Solutions SAS, Chavanod, France



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