

EasyTom CT Scanner

3D Micro Computed Tomography & Digital Radioscopy System

CT Scanners

CT Scanner with Ultra 3D Accuracy and Resolution for Large Volume Inspection

EasyTom 130 & 150 Micro CT Scanners are x-ray inspection machines allowing a collection of complex internal and external geometry. The EasyTom 3D CT scanners features high-resolution digital radioscopy, versatility for a wide variety of applications, 6 motion axis and large volume inspection.

Real Time Scanning for Fast Measurements

- Attain measurements in real time with high resolution digital radioscopy

Attains Highly Precise Measurements

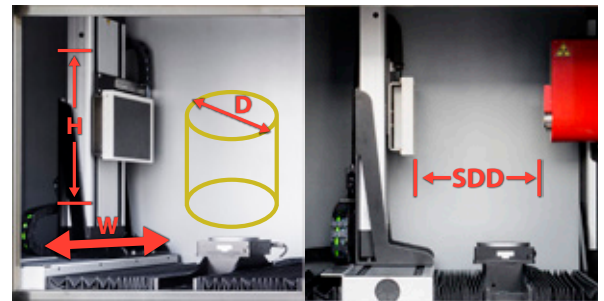
- Capture highly accurate measurements at +/- 10µm Accuracy with Resolution to 4µm
- High accuracy motorized rotation and 3 Axis translations

Provides Easy-to-Use 3D Scanning Capabilities

- Easy to use 3D micro and computed tomography system

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 of large size samples and high volume inspection.
- Full inspection volume (ØxH)*: 32 cm (12.6") x 42 cm (16.5")



Part Capability

- Full inspection volume 32 cm (12.6") diam* 42 cm (16.5")
- W = 410 mm, using the system in 3D CT and 2D Radio: Max. Shift 2 : 460 mm max
- H = 410 mm
- SDD (distance between the emitter and the detector) = 900 mm (max. available space)



Industrial Metrology

Technical Specifications

Safety Cabinet

- Footprint: 2100x1100x2000 mm / 82.6"x43.3"x78.7"
- Lead / Steel construction and X-ray safety interlocks, designed to meet X-ray safety regulations.
- Motorized door with automatic locker during X-Ray emission.
- Large scanning volume (diameter x height): 320 mm x 420 mm

Mechanics

- High accuracy motorized rotation and translation axis.
- Imager lateral and vertical shift option for enlarged field of view and decreased ring artifacts.
- Air-bearing rotation stage option, takes up of sample weight.

X-Ray Generator

- Several options and combinations available:
- Sealed or open type micro-focus tube.
 - Open nano-focus tube (160 kV)
 - Voltage up to 230 kV (several options available).
 - Resolution down to 400nm/voxel
 - Various targets and filament types available.

Imager

- Several options and combinations available:
- High resolution flat panel detector
 - Large area flat panel detector
 - CCD sensor

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

