

EasyTom S CT Scanner

3D X-Ray Micro Computed Tomography System

Compact CT Scanner with Ultra 3D Accuracy and Resolution

EasyTom S Micro CT Scanners are compact x-ray inspection (CT) machines that collect 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 radiography.
- High speed detector enables fastest scan at 6 seconds.

Attains Highly Precise Measurements

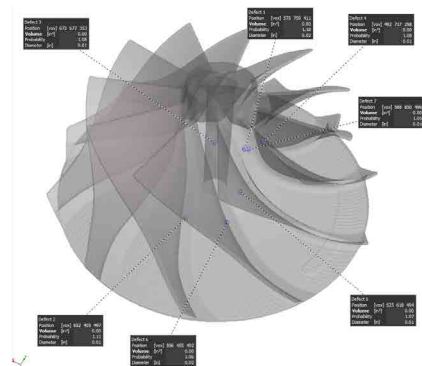
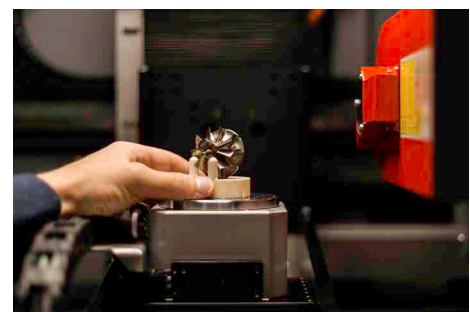
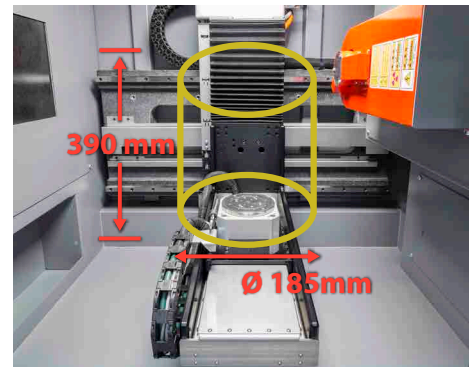
- Capture highly accurate metrology-grade measurements with $2\mu\text{m}$ resolution.
- High accuracy motorized rotation and 3 axis translations.

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

- Easily program automated scanning reconstruction and inspection work flows with multiple acquisition modes: conventional, helical, shift, stack.
- No maintenance (sealed micro-focus tube), multiple configurations available.
- Easy system integration with a small footprint.

Versatile for a Variety of Applications and Parts

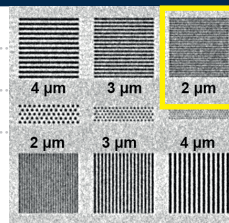
- High flexibility with a large inspection volume
- Easily verify structure of 3D printed metal parts.
- Attain external and internal surface geometry output as .STL for use with popular 3D scan data processing software.
- Add an optional 3D visualization and post processing software suite to fit any application: Inspection, Reverse Engineering, Analysis, Porosity, Fiber Alignment, Wall Thickness, Comparison to CAD, 3D Color Maps and much more.



Scanning Capabilities

Highest Resolution	2 μm (JIMA & QRM Charts)
Maximum Scanned Volume ($\varnothing \times H$) *	185 mm x 390 mm
Maximum Sample Weight	5 kg

* The sample size can exceed the maximum scanned volume



QRM Micro-Chart:
3D Proven Resolution 2 μm

Specifications

Cabinet Dimensions (HxWxD)	1865 mm x 1325 mm x 890 mm
Total Weight of the System	1020 kg
Vertical Axis	300 mm
Lateral Axis	200 mm
Zoom Axis	466 mm
Generator to Detector Distance	590 mm

X-ray Detector

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

	Option 1	Option 2	Option 3
Microfocus Sealed Tube	Option 1	Option 2	Option 3
Maximum Voltage	110 kV	130 kV	150 kV
Maximum Power	16 W	39 W	75 W
Minimum Focal Spot Size	2 μm	5 μm	5 μm

RX SOLUTIONS CT SOFTWARE: X- ACT

Radiography	Radiography filter enhancement. 2D video sequence acquisition. 3D measurements.
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.

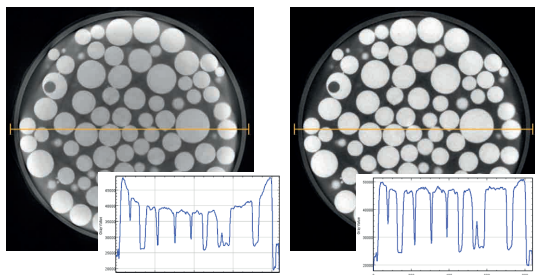
Workstations

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

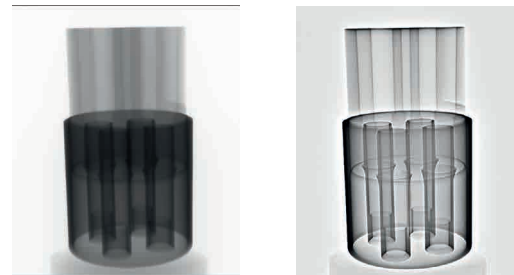
Analysis Software (Optional)

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.



Before Correction After Correction
Beam Hardening Correction



Without Filter With Filter
Radiography Filter Enhancement

Manufactured by RX Solutions SAS, Chavanod, France

CYBEROPTICS

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