

DeskTom

3D X-RAY MICRO COMPUTED TOMOGRAPHY SYSTEM

Top Performance

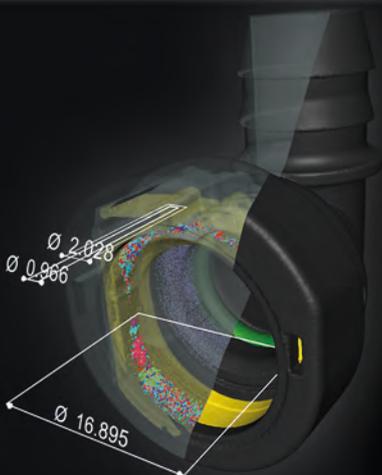
- ✓ Micro-focus Generator:
Max CT Resolution 4 μm
- ✓ High speed Detector:
Fastest scan 6 sec.

High Flexibility

- ✓ Easy integration: Small footprint -
Plug & play
- ✓ Large inspection volume ($\text{Ø} \times \text{H}$):
180 mm x 250 mm

Maximum Efficiency

- ✓ Automated scanning reconstruction
and inspection workflow
- ✓ Conventional, helical and stack
acquisition modes
- ✓ Low Maintenance: High availability



TECHNICAL SPECIFICATIONS

SYSTEM SPECIFICATIONS

Scanning Capabilities

Highest resolution	4 μm (JIMA & QRM Charts)
Maximum scanned volume ($\text{\O} \times \text{H}$)*	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

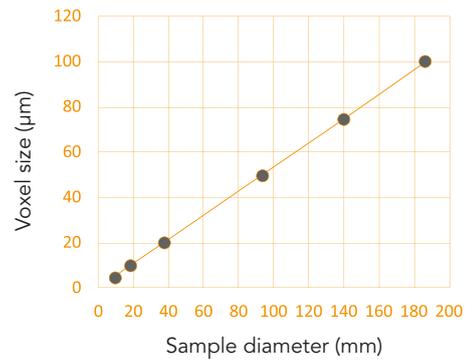
CT SPECIFICATIONS

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 (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



RX SOLUTIONS CT SOFTWARE: X- ACT

CT Acquisition

CT Acquisition Modes: conventional, helical, stack, lamino-graphy, 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 artefacts corrections: focal spot drift, ring artefacts, 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

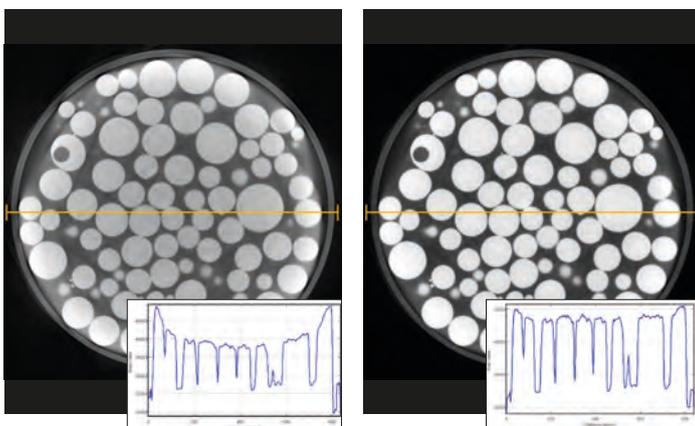
On the fly reconstruction of a running acquisition

WORKSTATIONS

System-integrated acquisition workstation

Standalone reconstruction workstation with powerful GPU

X-Act: RX Solutions Proprietary X-Ray Imaging Software



Before correction

After correction

Beam Hardening Correction



Without filter

With filter

Radiography Filter Enhancement