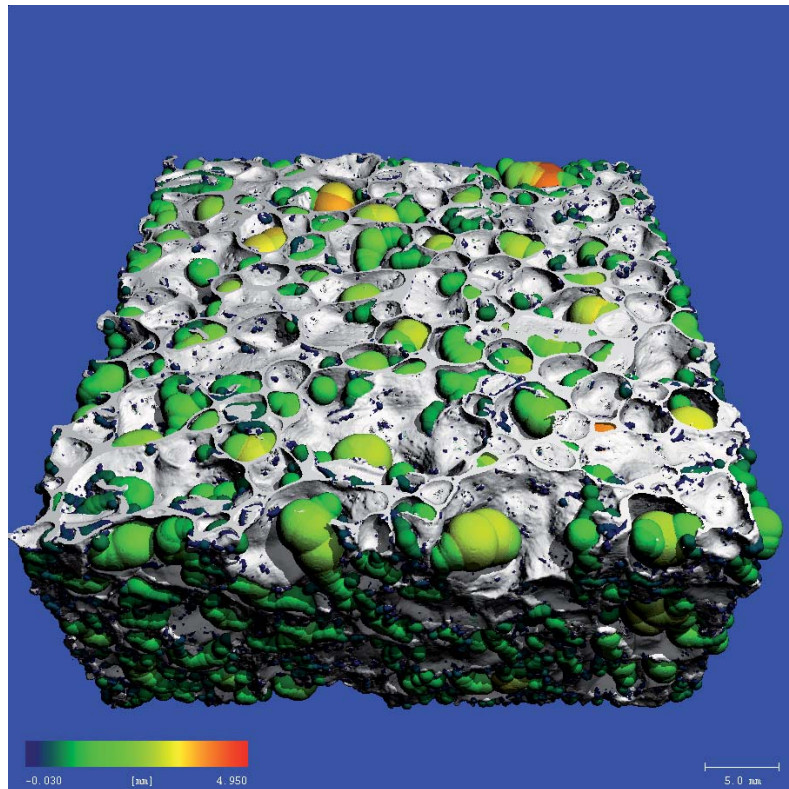
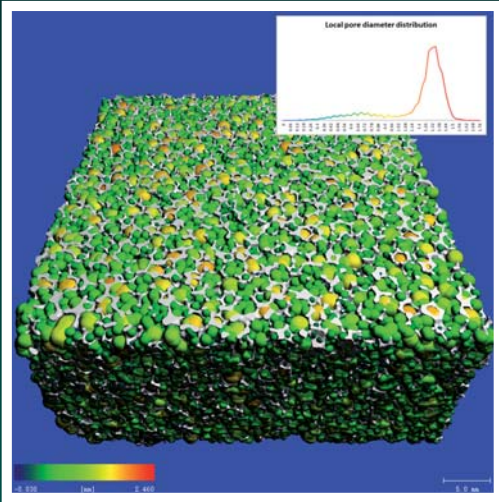


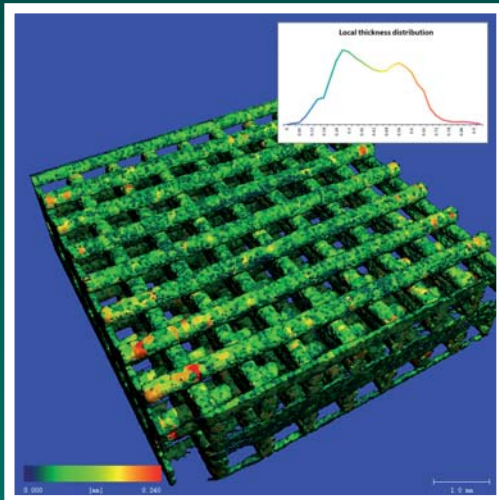
MicroCT Systems and Software



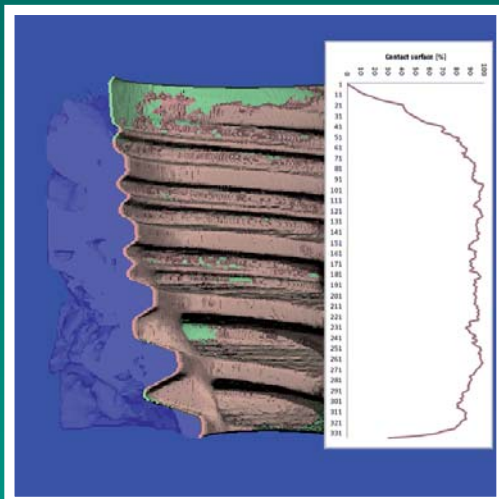
SCANCO MEDICAL



Porosity map of Al foam



Thickness map of Ti scaffold



Implant contact surface

SCANCO - Scanners, Software and Contract Research Services:

SCANCO Medical has been a pioneer in the field of high-resolution computed tomography for more than two decades. We offer a wide range of microCT systems to study the internal structure of practically any material.

These systems are supplied with high-end computing equipment and sophisticated analysis and visualization software to provide the most comprehensive and industry-leading imaging solutions.

SCANCO Medical also offers scanning, analysis and consulting services for a wide range of applications.

Applications:

- Scaffold characterization
- Nondestructive testing
- Implant measurements
- Imaging of composite materials, polymers and foams
- Dental research
- Bone quality measurements
- Vascular research
- Imaging of food and biologic material
- Low temperature measurements

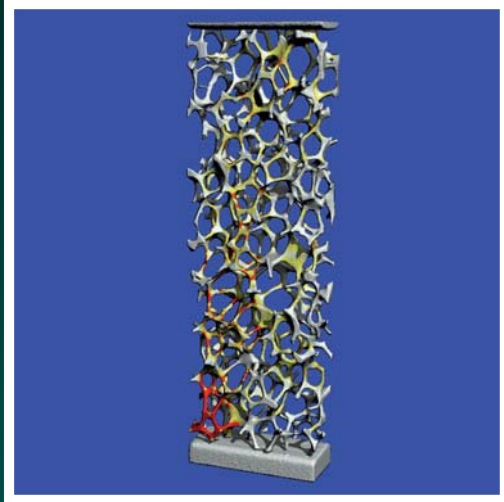
High resolution imaging for accurate results:

- Non-Destructive analysis
- No sample preparation required
- High throughput (batch mode processing, automatic sample loader)
- Custom system configuration available
- Very fast acquisition, reconstruction and analysis
- Automatic sample changer (μ CT 35, 40, 50, 80 and μ CT 100)
- Physiological monitoring and gating for vivaCT 40, 75 and 80.

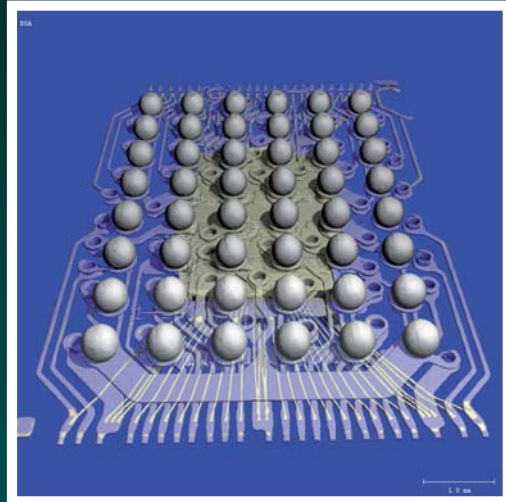
Software

- Morphometry: Segmentation, porosity, specific object surface, object volume, local thickness, pore size distribution, pore connectivity
- Contact area calculations
- Visualization in 2D and 3D
- Finite Element Analysis

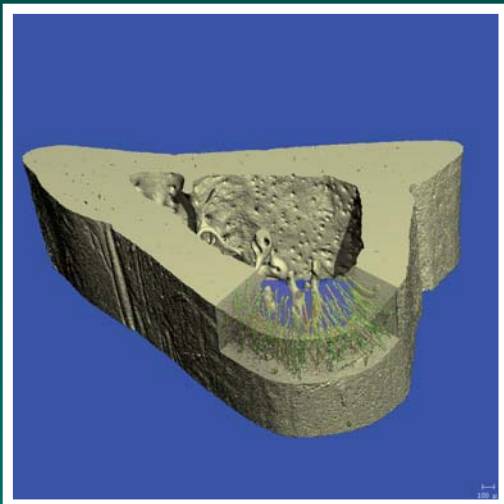
MicroTomography Systems



μ CT 40 Al foam FE Analysis 6 μ m



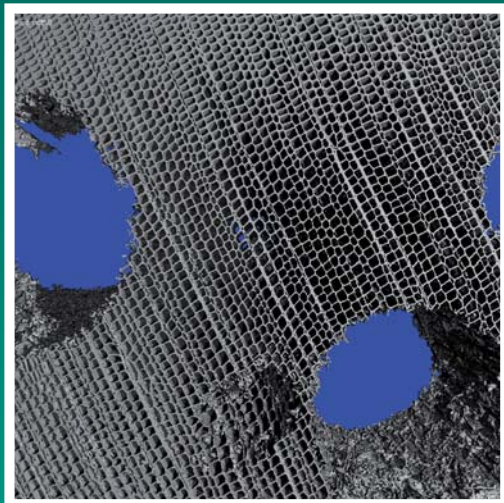
μ CT 100, Circuit board, 5 μ m



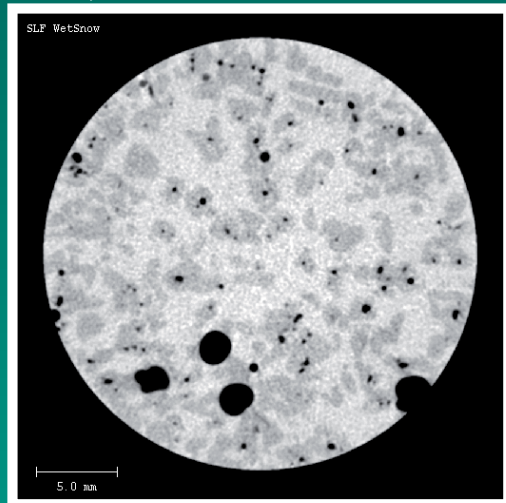
μ CT 50, Mouse femur, 1 μ m



μ CT 100, Neusticosaurus fossil in rock, 44 μ m
© T. Scheyer, PIM, UZH



μ CT 50, Old Wood, 2 μ m



μ CT 80, Dry and wet snow, 36 μ m
© M. Schneebeli, WSL

Specifications

Specimen Systems

| | μCT 40 | μCT 35 | μCT 80 |
|---------------------------------|------------------|--------------------|-------------------|
| Peak Energy | 30-80 kVp | 30-80 kVp | 30-80 kVp |
| Max. Scan Diameter | 36.9 mm | 37.9 mm | 75.8 mm |
| Max. Scan Length/Height | 80 mm | 120 mm | 140 mm |
| Automatic Sample Changer Option | up to 10 holders | up to 8 holders | - |
| Resolution (Nom. /10% MTF) | 3-72 μm / <8 μm | 1.75-72 μm / <5 μm | 5-144 μm / <14 μm |
| Minimal Scan Time per Stack | 2 min | 3 min | 1 min |
| Image Matrix : | from 512 x 512 | 512 x 512 | 512 x 512 |
| | to 4096 x 4096 | 4096 x 4096 | 4096 x 4096 |

| | μCT 50 | μCT 100 |
|-----------------------------------|--------------------|---------------------|
| Peak Energy | 30-100 kVp | 30-100 kVp |
| Variable Spotsize | 4-30 μm (4-18W) | 4-30 μm (4-18W) |
| Filter Changer (Al, Mb, Cu, None) | yes | yes |
| Max. Scan Diameter | 50 mm | 100 mm |
| Max. Scan Length/Height | 120 mm | 140 mm |
| Automatic Sample Changer Option | up to 12 holders | up to 12 holders |
| Resolution (Nom. /10% MTF) | 0.5-100 μm / <2 μm | 1.25-200 μm / <4 μm |
| Image Matrix : | from 512 x 512 | 512 x 512 |
| | to 8192 x 8192 | 8192 x 8192 |



in vivo Systems

| | vivaCT 40 | vivaCT 75 | NEW vivaCT 80 |
|-----------------------------|------------------|--------------------|---------------------|
| Peak Energy | 30-70 kVp | 30-70 kVp | 30 - 70 kVp |
| Max. Scan Diameter | 38.9 mm | 79.9 mm | 32 - 80 mm |
| Max. Scan Length | 145 mm | 145 mm | 145 mm |
| Resolution (Nom./10% MTF) | 5-76 μm / <14 μm | 10-150 μm / <36 μm | 5 - 160 μm / <14 μm |
| Minimal Scan Time per Stack | 30 s | 30 s | 20 s |
| Image Matrix : | from 512 x 512 | 512 x 512 | 512 x 512 |
| | to 4096 x 4096 | 4096 x 4096 | 8192 x 8192 |

| | NEW XtremeCT II* |
|--------------------------------|------------------|
| Peak Energy | 68 kVp |
| Max. Scan Diameter | 140 mm |
| Max. Scan Length | 200 mm |
| Resolution (Nom./10% MTF) | 17 μm / <55 μm |
| Standard Scan Time per Patient | 1.6 min |
| Image Matrix : | from 512 x 512 |
| | to 8192 x 8192 |



Specialized specimen holders and/or casts, quality control protocols (including density and resolution phantoms) available for all scanners (some are optional)

Computing

| | rx2660/rx2800 i2 | bl860c i2/bl870c i2/bl890c i2 |
|---------------------|---|-------------------------------|
| RAM | 4 to 32/384 GB | 4 to 384/768 GB/1.5TB |
| CPU | 2 to 8 | 2 to 32 |
| Disks | 1 TB to multiple TB | 1 TB to multiple TB |
| Archival Device | high capacity tape drive (3.0 TB per cartridge) | |
| Reconstruction Time | 2 s for 1k x 1k (1 CPU) | 2 s for 1k x 1k (1 CPU) |
| Analysis Time | 5 min typical | 5 min typical |

Clustering of multiple rx2660/rx2800/bl860/bl870 possible to enhance throughput



Pictures are not to scale

* Contact Scanco Medical for latest update on regulatory approval in your country

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