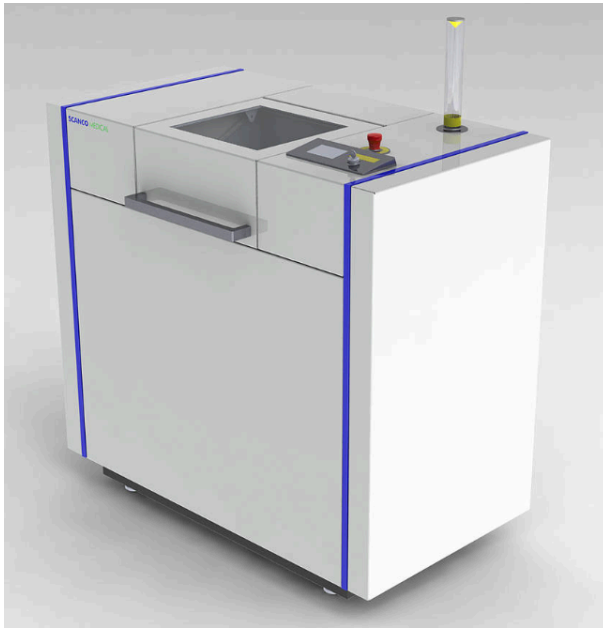


Micro CT (Computed Micro Tomography)



Device Model: SCANCO MEDICAL μ CT 50

It can create a three-dimensional (3D) model with images taken from the cross-sections of the material using X-rays without damaging the material. Analysis of the internal structure of materials such as composites, polymers, biological materials (bones, teeth, cartilage tissue, ...), bone morphometric analysis and micro-level imaging of up to 4 different materials in a sample can be performed. Apart from these features; by the Cooling/Heating Stage, the temperature can be decreased to 15°C below or increased to 15°C above the ambient temperature and analyzed under these conditions. The Compression/Tension Device is capable of analyzing the material under certain compression and tension conditions.

Micro CT Applications:

Dentistry, Biomedical, Material, Geology, Paleontology, Food industry

Device Equipment and Features

Maximum scan size	48 x 100 mm (\varnothing xL)
Maximum sample size	50 x 120 mm (\varnothing xL)
Resolution (Nom. / 10% MTF)	500 nanometers / <2 μ m

Heating/Cooling Stage

Maximum sample diameter	:8 mm
Maximum sample height	:15 mm
Maximum cooling effect	: -15°C
Maximum heating effect	: +15°C

Compression/Tension Device

Maximum loading and tension	: 450 N
Maximum sample diameter	: 23 mm
Maximum sample height	: 25 mm
Maximum excursion	: 8 mm