



Non-destructive 3D visualisation and analysis *using Micro Computed Tomography (CT)*

Benefits

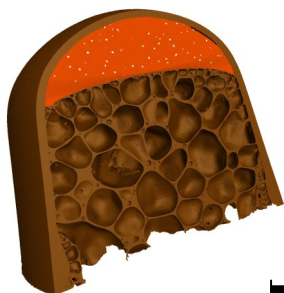
- No sample preparation or cross-sectioning
- 3D visualisation of internal structure
- Multiphase measurements and analysis
- High resolution (down to 1 μm)
- Repeated analysis of same sample

Example applications

- Assessment of 3D morphology
- Defect and fault analysis
- Temporal variations in structure
- Phase separation and analysis
- Multi-resolution imaging

Example Applications

Food Technology



5 mm

Aerated chocolate permitting analysis of 3D porosity and bubble size distribution

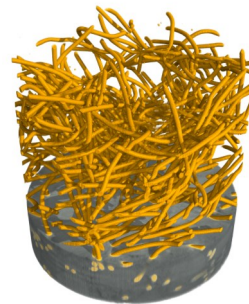
Biomaterials



5 mm

Poppy seed pod allowing automatic assessment of inclusions and particles

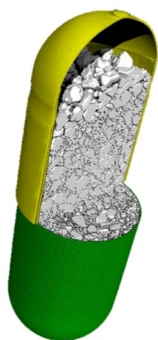
Engineering



10 mm

Metal wires in a cement core allowing evaluation of strength characteristics

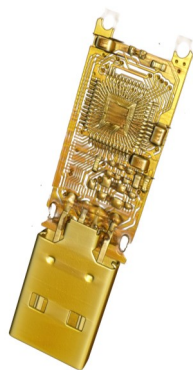
Pharmaceutical



2 mm

Paracetamol capsule showing visualisation of particle packing density

Electronics



5 mm

A USB stick allowing detailed component analysis and defect detection

Geosciences



2 mm

Sandstone scanned to reveal changes in morphology following fluid flow

Our X-ray CT facilities and services

- Multiple 'state-of-the-art' CT scanners available for a variety of applications
 - A range of scanning chambers to accommodate samples of different sizes
 - Varying X-ray energy ranges to probe samples of different densities & thickness
 - High resolution systems (down to 1 μm)
- High performance computing for 3D image visualisation & analysis
- Analytical solutions for structural performance & integrity problems
- Bespoke software development for the automated analysis of multi-phase materials
- A cross-disciplinary team of experts with >15 years of CT & image analysis experience