

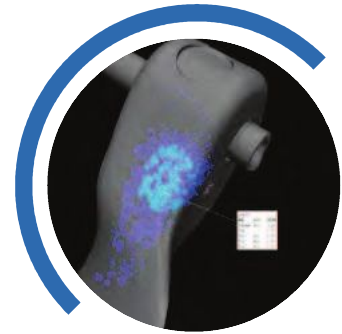
X Ray Computed Tomography Scan

The Ultimate in Non Destructive Testing

▶ The Ultimate in Non Destructive Testing

3D tomography allows to visualise inside the components with great «finesse»:

- Matter analysis, density differences
- Inclusions, voids
- Welding or gluing defects
- Cracks, delamination, shrinkage, joint plane...



▶ Dimensional controls and comparisons

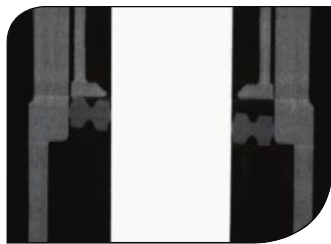
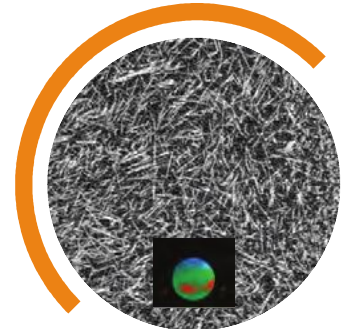
Thanks to the quality of the images obtained, it is possible to:

- Carry out dimensional measurements
- Compare dimensionally parts between themselves
- Compare the piece with the theoretical one (CAD)
- Extract stereolithography (STL) files.

▶ Composites: Orientation of fibers

Tomography is particularly well suited for studying composite materials and fibers:

- Delamination or porosity analysis and quantification
- Composite behaviour around holes and inserts
- Fibers orientation and distribution analysis



▶ Constrained tomography

Tomography allows comparison of several different stress states of the same component to observe the influence of physical quantities on the global deformation of the piece:

- Tightening torques,
- Water pressure, compressed air ...
- Mechanical stress: tension, compression, torsion...