

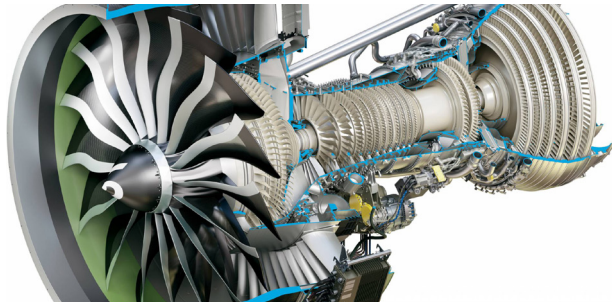
# Aircraft engine parts

Upon the request of *Institut de Recherche Technologique Saint-Exupéry*, Voxaya realized a non-destructive testing and characterization (tortuosity, permeability, porosity) by 3D imaging of aeronautical parts acquired by X-ray tomography.

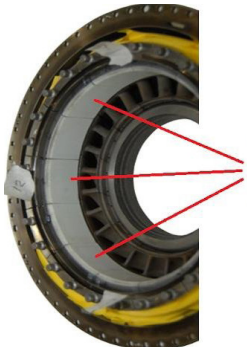
The main objective is to characterize the inter-fiber space of the piece.

## Customer's needs

The IRT Saint Exupéry needed to characterize the inter-fiber space of an aeronautical part, theoretically composed of powder, cracks and pores.



This study consisted of an analysis and assessment of aircraft engine turbine CMC parts.



*Example of CMC shroud plates encompassing a high pressure turbine in an aircraft engine*



## Voxaya's analysis

## Customer's benefits

### *Faster results*

Batch analysis of many samples of the aeronautical part.

### *Statistical and visual analysis*

Visualization and quantification of exclusive properties.

### *Support*

Voxaya provided a dedicated support and assisted in the parameterization of the experiments under constraints.

CONFIDENTIAL