Industrial CT Inspection Services for Additive Manufactured Parts

3D X-Ray / Computed Tomography is used for quality control & defect analyses in additive parts. Identify voids and inclusions, map them in 3D space, determine their sizes & shapes and quantify results.

Purple represents porosity and missed print layer.

Red represents trapped un-fused powder within the star shaped feature.
Nominal-to-Actual Comparison takes the CT scan data, overlays it with the CAD model and creates a 3D heat map showing where the printed part deviates from the CAD.

Wall Thickness Analysis is used to inspect for channel blockages and to measure wall thickness of internal channels designed to carry fluids and gas. A color-coded 3D model is generated for ease of visual inspection and details are output in tabular data.