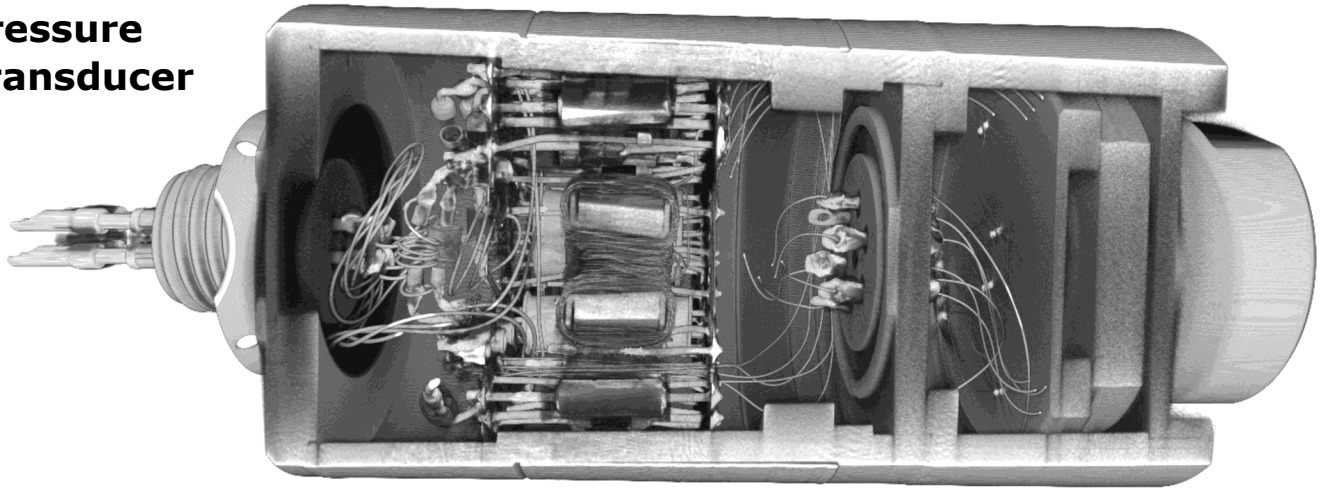
Delphi Precision Imaging

Industrial CT Services
Aerospace

Pressure Transducer



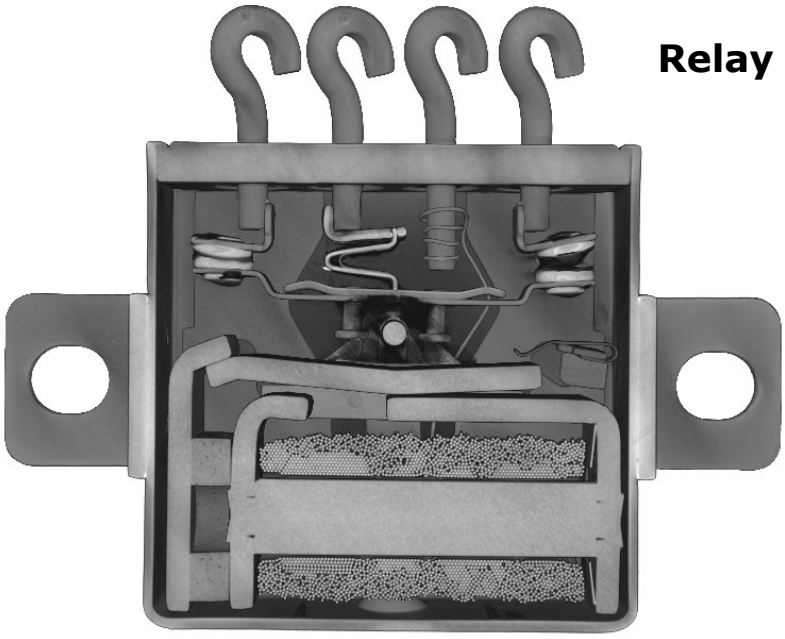
CT scan of a 6-inch pressure transducer with a virtual slice plane added. Industrial CT allows our aerospace customers to inspect the internal components of a precision part without disruption.

Preflight inspection helps assure 100% mission success.

System Capabilities

- 450kV tube - 400 microns and 1mm dual focal spots
- 225kV microfocus tube - focal spot to under 6 microns
- Perkin Elmer Detector - 16” x 16” with 200 micron pixel pitch
- Accommodates large items up to 200 lbs, ~3 cubic feet as well as small items down to grams
- Vortex - fine details of large items, up to 48” tall
- MosaiX – seamless high resolution of wide parts
- SubpiX – enhanced resolution of fine/complex

Relay w/Coil



High performance relays must operate under extremely rigorous environments in military and aerospace applications. Inspecting relays using industrial CT allows customers to verify the quality of their products, or **end a failure investigation quickly**.

Failure Analysis · Weld Inspection · Internal Part-to-CAD · Assembly Verification
Crack Detection · Wall Thickness · Porosity Analysis · Product Quality Screening

Delphi Precision Imaging

Email: info@delphiprecisionimaging.com

Haynes 282 Thruster

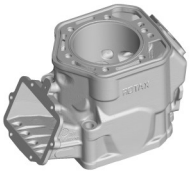
Part-to-CAD Comparison

Affirm the as-built part matches the as-designed part.

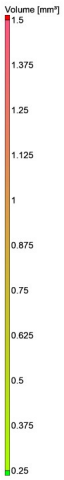
CT scan results are over-laid with the CAD model. A color-coded 3D model is generated that shows discrepancies between the part and the CAD for both internal and external features.

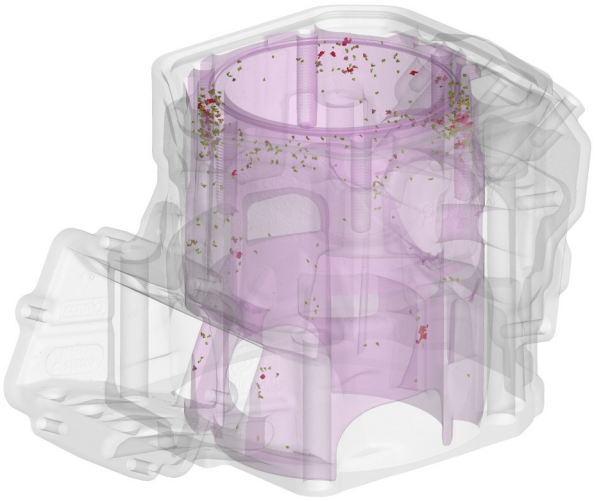
Porosity Analysis

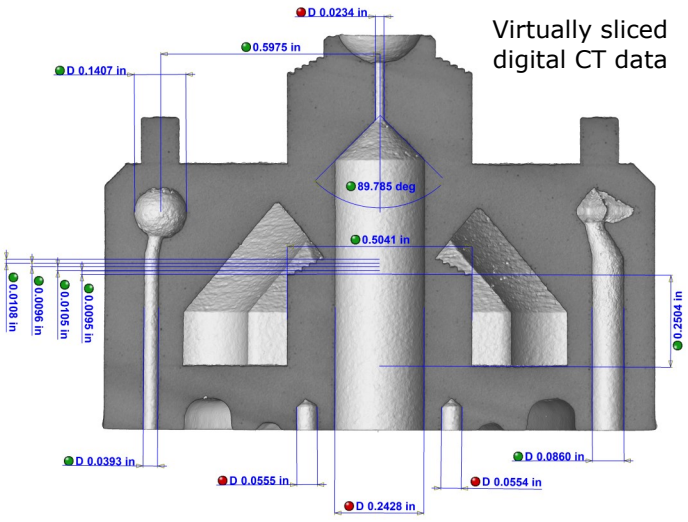
Porosity analysis identifies and quantifies the precise locations of porosity in a variety of materials including castings, additive manufactured and plastic molded parts. Detailed reports quantify the total porosity or inclusion volume in an entire part or specific region of interest.



Engine Casting







Virtually sliced digital CT data

Internal Dimensional Inspection

Calibration Block

Obtain GD&T measurements for both internal & external features with Industrial CT that cannot be done with traditional methods. Non-destructively inspect and measure complex internal features, view results in a color coded 3D model to quickly highlight deviations and review detailed GD&T reports.