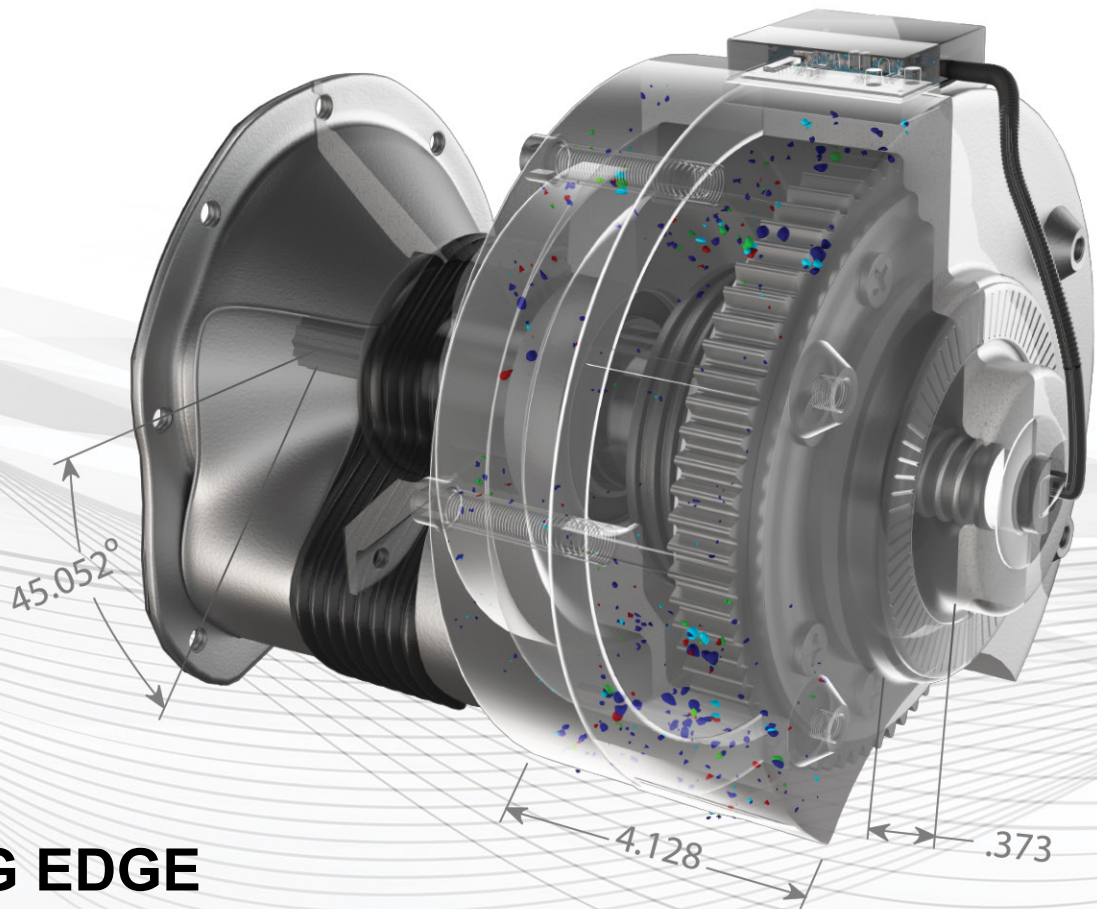




JESSE GARANT
METROLOGY CENTER



CUTTING EDGE PART INSPECTION SERVICES

Essential Data You Need To Make A Qualified Decision TM

SOLUTIONS

PRE-PRODUCTION

Quick and accurate validation of your parts and assemblies during the pre-production or prototyping phase. Eliminate guess work and begin production with a dimensionally correct part, free of defects.

PRODUCTION

Inspect and qualify high value, limited run production parts using our advanced imaging services. When parts cannot fail in inaccessible or must run conditions, a customized process is developed to meet your high quality validation requirements.

FAILURE ANALYSIS

Root cause failure investigation of parts and assemblies without destructive testing. Easily identify, locate and measure internal failures such as fit and function, misalignment, or out of tolerance conditions.

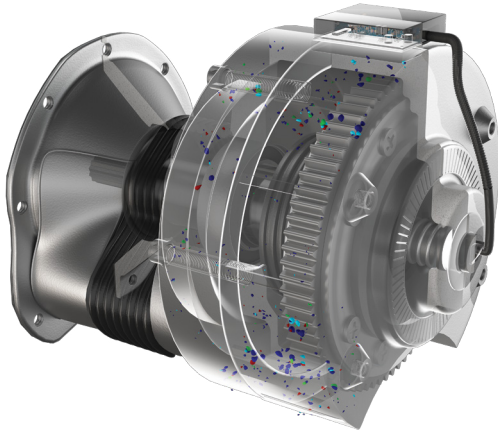
PART SORTING

Industry leading imaging capabilities for high volume part inspection services. Used with applications that require 100% part inspection to coincide with a go/no-go process for sorting applications.

REVERSE ENGINEERING

Advanced imaging capabilities for generating internal and external geometry of parts and assemblies. Reverse Engineering services provide high quality and accurate data for generation of a point cloud, mesh, or CAD data.

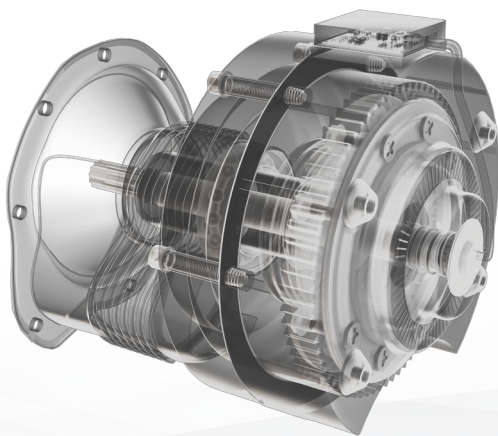
INSPECTION SERVICES



CT SCANNING

Industrial CT Scanning provides the ability to inspect internal and external features of a part in 3D without destructive testing. Jesse Garant Metrology Center utilizes multiple CT systems of various configurations and energies, ensuring projects are paired with the right CT system. This capability along with expert analytical support sets us apart from all other CT labs globally.

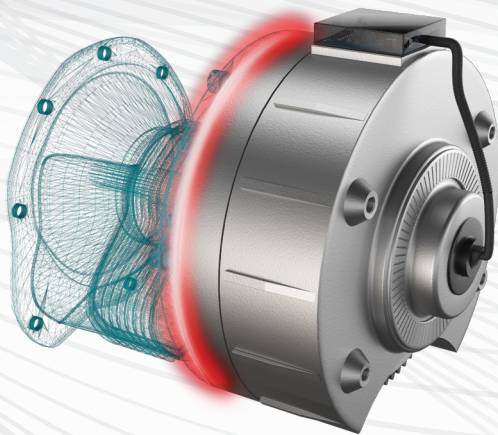
CT



X-RAY

Industrial radiography provides 2D high resolution internal part data. Each system at Jesse Garant Metrology Center is capable of capturing x-rays in a number of easy to read digital formats. This ability in conjunction with certified operators allows for consistent high quality results each and every time.

X

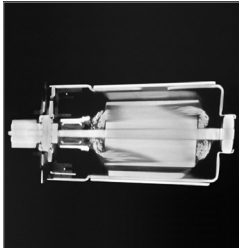


3D SCANNING

3D Scanning provides highly accurate and clean external scan data. Utilizing the latest in structured light and laser CMM scanning equipment, the lab at Jesse Garant Metrology Center generates the highest quality data in the industry. Point cloud, mesh, or various CAD formats are available for analysis or metrology purposes.

3D

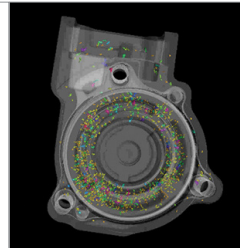
TYPES OF ANALYSIS



FAILURE ANALYSIS

An analysis performed by CT scanning a part and taking virtual cross sectional slices through the CT dataset

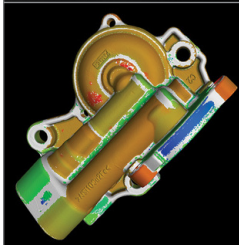
CT



POROSITY ANALYSIS

An analysis performed by CT scanning a part and evaluating internal porosity or inclusions

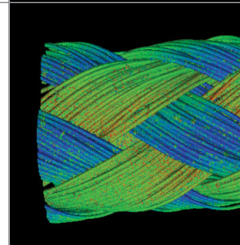
CT



WALL THICKNESS ANALYSIS

An analysis performed by CT scanning a part and evaluating inconsistencies of wall thickness

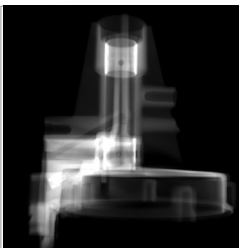
CT



COMPOSITE ANALYSIS

An analysis performed by CT scanning a part and evaluating single or multiple internal fibers

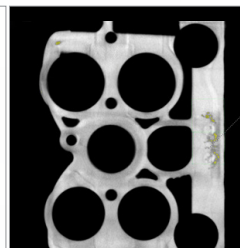
CT



2D X-RAY

A single image generated to inspect internal features

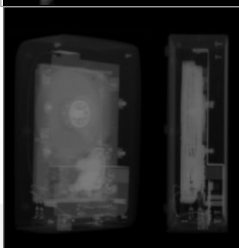
X



CROSS SECTIONAL IMAGE

An image generated by taking a single CT scan slice at a predetermined location

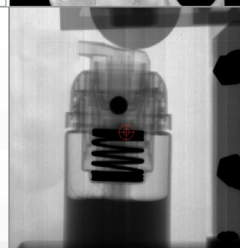
X



OBLIQUE X-RAY

A series of images generated at various angles to inspect internal data

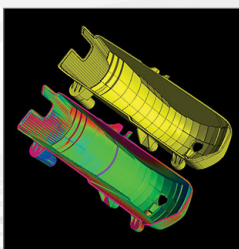
X



REAL-TIME X-RAY

A video developed using a series of x-ray frames showing movement inside an assembly

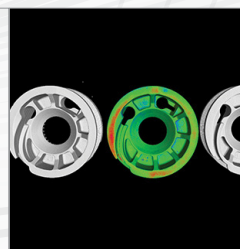
X



PART TO CAD COMPARISON

Performed by scanning a part and comparing the part to a supplied CAD model

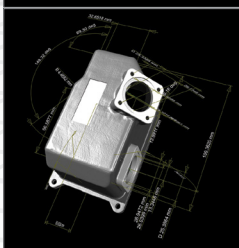
CT 3D



PART TO PART COMPARISON

Performed by scanning two parts and comparing the parts to each other

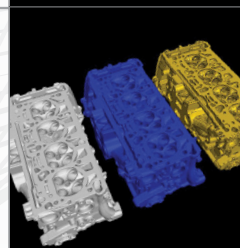
CT 3D



FIRST ARTICLE INSPECTION

Performed by scanning a part and comparing it to a measurement program developed upon a part print

CT 3D



REVERSE ENGINEERING

Performed by scanning a part and generating a point cloud, mesh, or CAD data

CT 3D

NDT & METROLOGY



Our service allows manufacturers to make a qualified decision regarding their part at key stages throughout a products lifecycle, which includes: pre-production, production, failure investigation, sorting, and reverse engineering.



JESSE GARANT
METROLOGY CENTER

Jesse Garant Metrology Center is a globally recognized part inspection service company, providing NDT and Metrology solutions using advanced imaging equipment.



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JESSE GARANT
METROLOGY CENTER



Transit Time to our Facilities



ONE DAY AIR



TWO DAY AIR

The majority of our customers are from out of state or province, in relation to our centrally located labs. Let us quote on your project today and see why we are the leading part inspection company in North America.

CONTACT INFORMATION

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ABOUT US

Jesse Garant Metrology Center is a globally recognized part inspection service company, providing NDT and Metrology solutions using advanced imaging equipment. Our service allows manufacturers to make a qualified decision regarding their part at key stages throughout a products lifecycle. From clients that have only one part to several thousand parts, every project is given the highest level of attention and detail possible. Our process is accountable, repeatable, and performed in a secure facility. Most importantly, we provide results in an easy to read format, allowing the end user to make a qualified decision.

Jesse Garant Metrology Center is ISO 9001 and ITAR certified company.

LOCATIONS

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