

Industrial X-ray Computed Tomography Engineering and Analysis

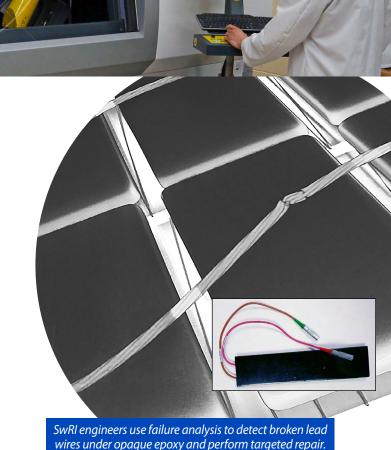
Southwest Research Institute* (SwRI*) offers microfocus industrial X-ray computed tomography (CT) for nondestructive 3-D visualization and quantification of hidden features in a wide range of materials.

CT imaging is used to locate and size defects, perform dimensional analysis, and discover the cause of failure in mechanical and electronic components. The high-resolution 3-D images, with voxel sizes down to 5 μ m, are used to perform precise dimensional analysis for a variety of applications such as manufacturing validation and reverse engineering. SwRl can provide clients with point-cloud and surface renderings of parts that can be read by scientific modeling or design software. Clients are provided with entire 3-D image data sets along with powerful software for visualizing and interacting with data.

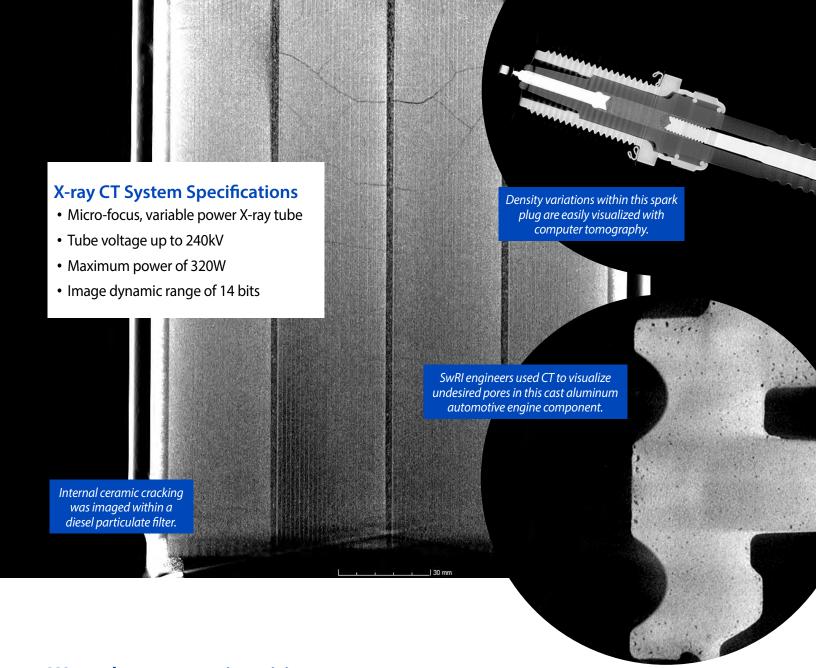
SwRI engineers produce customized imaging and tomographic reconstruction processes to meet specific client requirements. Customized 3-D image processing algorithms can be applied to automate 3-D image analysis.

Applications

- Nondestructive evaluation
- Dimensional metrology
- Manufacturing validation
- Mass density measurement
- Failure analysis
- Imaging of metals, ceramics, polymers, and biologicals







We welcome your inquiries. For more information, please contact:

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