



# HIGH PRESSURE ENGINEERING

## MULTIDISCIPLINARY SERVICES



As non-destructive examination (NDE) technologies continue to advance, some are migrating into niche industries, such as high-pressure equipment applications. These applications present unique inspection challenges, including deep bores, thick section components, weld overlays, and complex geometries.

**At Structural Integrity, we never shy away from a challenge.**

SI is a global leader in the development and delivery of state-of-the-art inspection technologies. We work hard to stay on the leading edge of NDE technology to offer the most accurate inspections of high pressure equipment available today.

### ADVANCED NDE OFFERINGS

- Phased Array Ultrasonic Testing (PAUT)
- Eddy Current Array (ECA)
- Guided Wave Testing (GWT)
- Custom Scanners/Encoders (Automated & Manual)

Applying these modern techniques can lead to a more accurate assessment of your equipment's fitness for service. Armed with the facts about equipment condition, owners can make informed decisions about asset management.

### BENEFITS

Compared to traditional NDE approaches, such as radiography and liquid penetrant inspection, SI's advanced techniques offer a number of advantages, including:

- Greater flexibility for inspection of complex geometries and difficult-to-access areas
- More accurate flaw detection, including high-resolution detection of defects in all orientations
- Faster turnaround times
- Reduced maintenance costs
- Permanent record of NDE data

Along with the industry's most advanced technologies, we bring a world-class team of technicians to implement them. With hands-on experience in all forms of NDE, SI can help plant owners choose approaches that will improve inspection accuracy and save time and money.

Advanced NDE is a critical component to a comprehensive programmatic asset management plan ensuring economic and safe operation of pressure vessels, including high pressure equipment. SI also has the capabilities to support your complete inspection program with state of the art Fitness for Service assessments of all findings from inspection.



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