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.