KĀDANT

FLUID HANDLING

Nondestructive Testing Services

Kadant Johnson's nondestructive testing (NDT) of steam and condensate pressure vessels identifies issues before they become failures. The NDT team provides a detailed report prioritizing opportunities and sharing best practices. After the inspection, Kadant Johnson partners with customers to implement solutions to improve safety and reliability.

The NDT team has successfully inspected thousands of pressure vessels across paper and other industrial applications, making them one of the leading NDT teams in North America. Team members have decades of experience inspecting cast iron and steel dryers, pressurized tanks, and associated equipment throughout the paper and industrial industries. They are confined space certified and proficient in all makes and models of dryer cans.

Kadant Johnson's NDT experts have the specialized knowledge, experience, and skill for safe, reliable, and expert testing of pressure vessels and associated equipment throughout paper and industrial applications.

Features

- VT – Visual Testing (internal and external)
- MT – Magnetic Particle Testing
- UT – Ultrasonic Testing
  - Shell Thickness
  - Head bolts
- PAUT – Phased-Array Ultrasonic Testing
  - Reel Spool Journals
- Professional and detailed inspection report
- Highly skilled and experienced team of professionals

Benefits

- Identifies issues before they become production problems
- Finds flaws that could affect safe operation of the pressure vessel
- Reliably tests paper industry reel spools without removing them from operation
- Determines if vessel is within its designated operating thickness
- Reduces down time

Internal and External Visual Inspections

Our experienced team knows where to look and what to look for in pressure vessels. Leveraging their years of experience, the NDT team reliably inspects and documents your equipment.

Magnetic Particle Testing

The nondestructive testing team uses proven technology to perform magnetic tests on your pressure vessels. These tests reveal indications in rotating pressure vessel shells, heads, and journals that can lead to critical failures.

Ultrasonic Testing

Kadant Johnson's NDT team measures and evaluates shell thickness according to the original Code of Construction. Using an ultrasonic robotic crawler, our skilled NDT team performs ¼" scans on the vessel shell. This information will be used to evaluate the pressure vessel for safe continued operation and the recommended appropriate course of action.

Ultrasonic testing is also performed on the hex head bolts (or socketed head cap screws) that join the dryer can head to the shell (and/or journal to head). Our team inspects 100% of the accessible bolts, 100% of the time.

Phased-Array Ultrasonic Testing

Kadant Johnson's nondestructive testing team utilizes phased-array ultrasonic testing to effectively inspect reel spool journals within the paper industry. This sophisticated NDT technique uses multiple angle beam paths to detect flaws, generating highly accurate inspection results.

Nondestructive testing is part of a large portfolio of professional services offered by Kadant Johnson. Other services include installation, maintenance and repair, audits, and inspections. Each service is performed by an experienced team with years of experience, ensuring the service is performed safely, reliably, and correctly the first time. Kadant Johnson will work with you to prioritize opportunities and implement solutions.

KADANT JOHNSON LLC
Three Rivers, MI 49093 USA
Tel: +1 269-278-1715

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