

SAW



SOFRATEST

BY



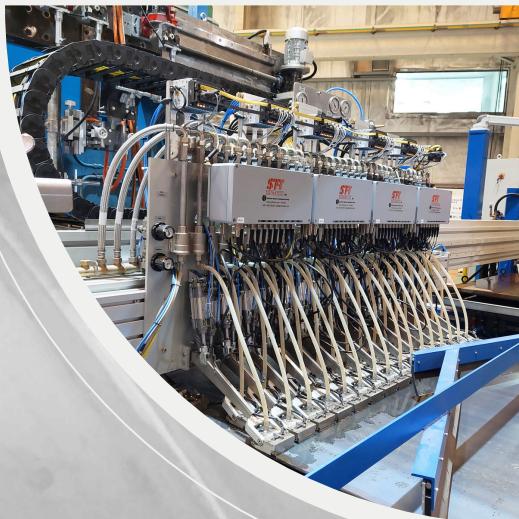
Controle Mesure Systemes Group

ULTRASONIC NON-DESTRUCTIVE TESTING SYSTEMS
World Leader in Automated Ultrasonic Inspection Solutions

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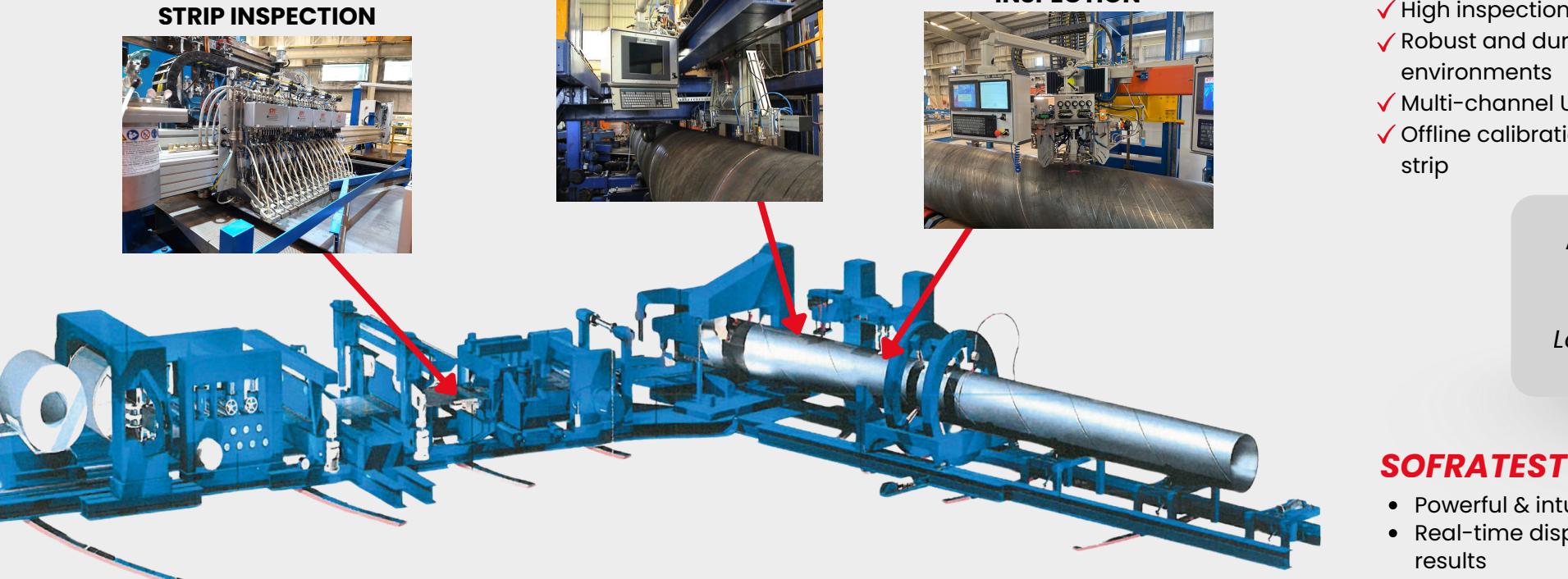


Made in France



SPIRAL/LONGITUDINAL SUBMERGED ARC WELDING

► Refers to a spiral welding process with added material



SSAW Quality Inspection by Automated Ultrasonic Systems

STRIP UT INSPECTION

SOFRATEST Ultrasonic systems perform Non-Destructive Testing (NDT) inspections on strips prior to forming and welding into ERW pipes.

STRIP INSPECTION FEATURES

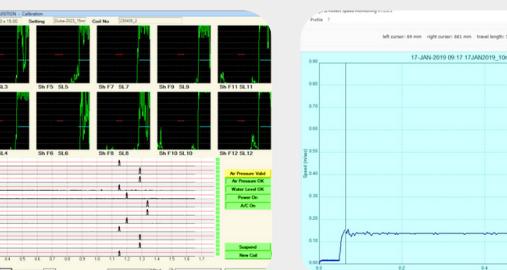
- ✓ Early detection of defects in the manufacturing process
- ✓ 100% customizable system according to customer needs and products
- ✓ Inspection of the strip body and edges
- ✓ High inspection speed, adapted to the customer's production line
- ✓ Robust and durable mechanical design for operation in harsh environments
- ✓ Multi-channel UT systems
- ✓ Offline calibration table for performing dynamic calibration on a standard strip

APPLICATION PRINCIPLES

- Lamination defects detection
- Loss of coupling detection

SOFRATEST SOFTWARE

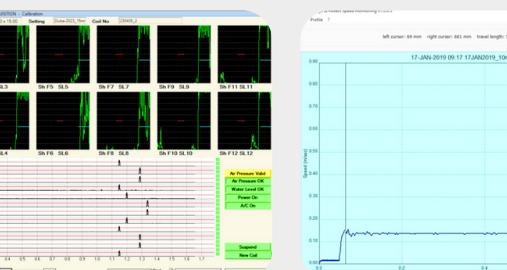
- Powerful & intuitive software
- Real-time displayed of inspection results
- User-friendly interface for managing ongoing inspections and configuring precise parameters
- Full traceability with complete and customizable inspection and calibration reports
- Speed profiling software for calibration



UT A-SCAN



STRIP CHART



CALIBRATION SPEED PROFILING SOFTWARE



STRIP UT INSPECTION SYSTEM



OFF-LINE CALIBRATION TABLE



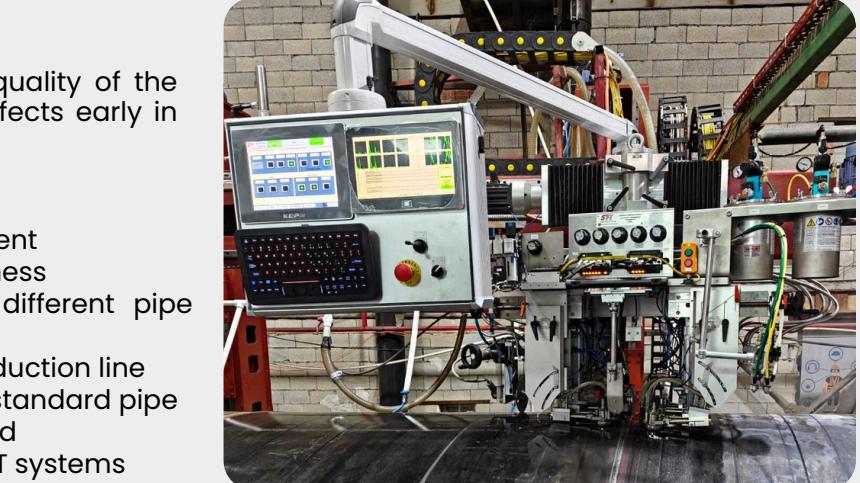
ON-LINE SAW PIPE BODY INSPECTION

ON-LINE INSPECTION

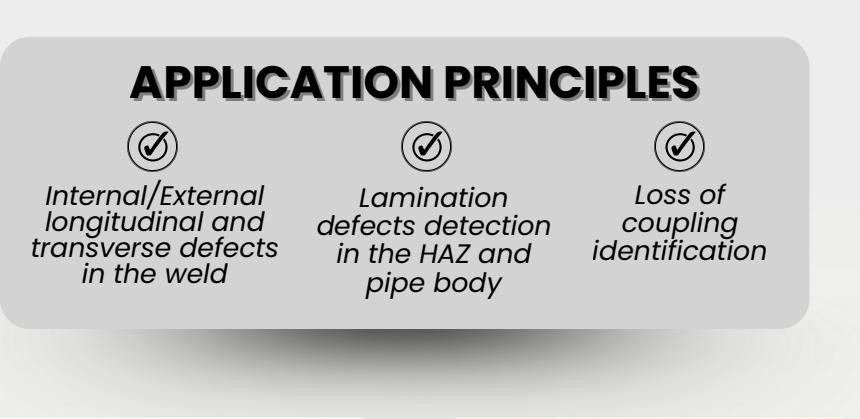
The on-line welded inspection unit allows checking the quality of the weld near the welding station and detecting potential defects early in the production process.

INSPECTION FEATURES

- ✓ Turnkey and robust system to operate in harsh environment
- ✓ UT head designed according to pipe diameter and thickness
- ✓ Tailor-made probe shoes for perfect adaptation to different pipe curvature
- ✓ High inspection speed: adaptation to the customer's production line
- ✓ Off-line calibration to perform dynamic calibration on a standard pipe
- ✓ Laser tracking system to adjust the position of the UT head
- ✓ Phased array electronics can be integrated on SOFRATEST systems
- ✓ Partial and full pipe body inspection



ON-LINE INSPECTION



APPLICATION PRINCIPLES

- Internal/External longitudinal and transverse defects in the weld
- Lamination defects detection in the HAZ and pipe body
- Loss of coupling identification

APPLICATION PRINCIPLES



OFF-LINE INSPECTION

The off-line welded inspection unit allows inspection of the weld seam and/or the full body of SAW tubes outside the production line.

INSPECTION FEATURES

- Turnkey and robust system to operate in harsh environments
- UT head designed according to pipe diameter, thickness, and length
- Tailor-made probe shoes to perfectly adapt to different pipe curvatures
- 100% customizable system according to customer needs
- Inspection of pipe ends and pipe body
- High speed inspection
- Dynamic calibration available using a standard pipe
- Laser tracking system to adjust the position of the UT head
- Several inspection head configurations available
- Phased array electronics can be integrated into SOFRATEST systems

APPLICATION PRINCIPLES



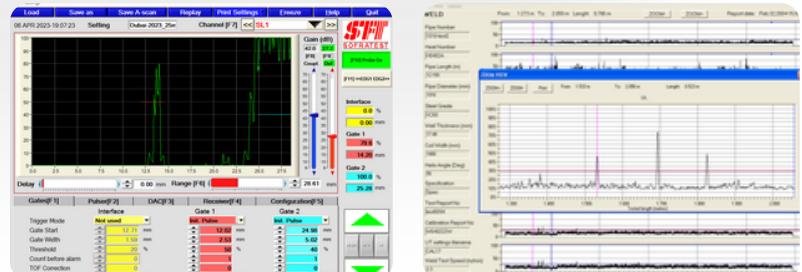
Internal/External longitudinal and transverse defects in the weld



Lamination defects detection in the HAZ/pipe ends and pipe body



Loss of coupling detection



UT A-SCAN

INSPECTION REPORT

SOFRATEST SOFTWARE

- Powerful and user-friendly UT software
- Inspection results displayed in real time
- Summary and detailed reports, with traceability for each detected defect or loss of coupling
- User-friendly interface for managing ongoing inspections and configuring precise parameters
- Comprehensive and customized reports generated at the end of the inspection and after each calibration

YOUR MANUFACTURING PARTNER FOR NON-DESTRUCTIVE TESTING EQUIPMENT

Since 1985, SOFRATEST has been one of the world leaders in the design and manufacture of automated Ultrasonic inspection systems.

SOFRATEST develops its own heavy-duty systems, specifically engineered to operate under harsh conditions, providing reliable automation solutions and user-friendly software.

Its organizational structure enables the delivery of customized, turnkey solutions to customers.

SOFRATEST serves a wide range of markets, including the aerospace, steel, automotive, and nuclear industries.

ABOUT SOFRATEST



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