

Small Bore Scanner

Phased array ultrasonic testing

We offer an innovative fully-auditable, phased array ultrasonic inspection technique for small bore pipe work.



FEATURES

Lightweight, portable, and robust system

Pipe diameter: 19mm - 90mm

Wall thickness: 4 mm or greater*

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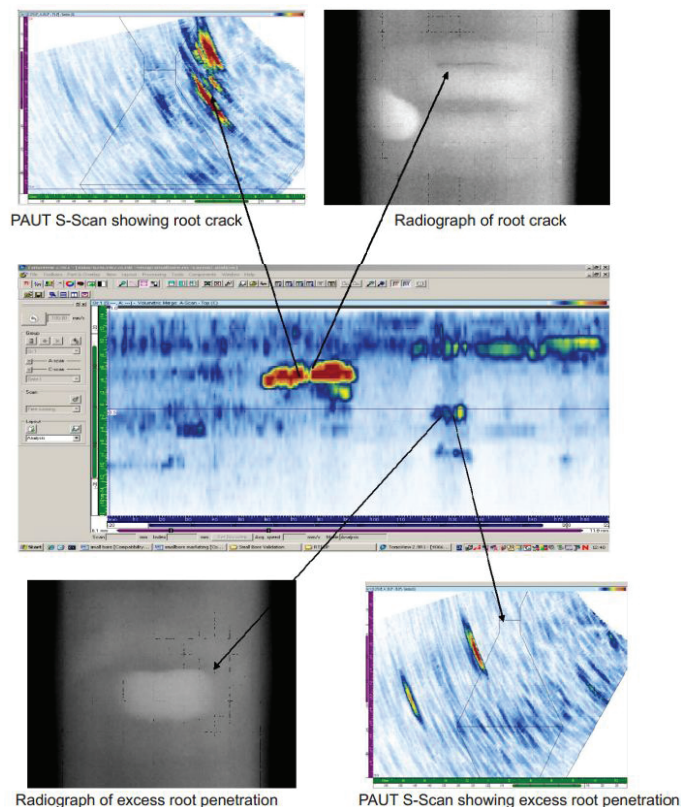
The innovative system enables circumferential inspection on thin walled piping providing semi-automated data collection. The low-profile scanner is specifically designed for use on small bore piping where minimal clearance is a requirement. The design of the scanner allows for adjacent restrictions to be as close as 15 mm, making the system ideally suited for boiler tube inspection.

The state-of-the-art scanner is fitted with a specifically designed 7.5 Mhz, 16 element phased array transducer which has been designed to give extended focal ability while achieving high ultrasonic sensitivity. The probe has interchangeable wedges that can be selected depending on pipe diameter.

The scanner is used with a PA acquisition unit capable of simultaneously controlling 16 ultrasonic testing channels. Using a micro-wheel encoder supports fully-encoded data collection, ensuring the system is fully code compliant. By combining corrected C-scan imaging and S-scan displays, indications can be accurately measured for circumferential length and through wall extent.

***Can be used with wall thicknesses below 4.0 mm using a go/no go testing strategy.**

The data presented is from 50mm piping of 8mm wall thickness



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