



ITCL

ITCL: Ready for Inspection

IRIS Inspection



What is it?

Internal Rotary Inspection System (IRIS) is an ultrasonic method for the non-destructive testing of pipes and tubes. The IRIS probe is inserted into a tube that is flooded with water, and the probe is pulled out slowly as the data is displayed and recorded. The ultrasonic beam allows detection of metal loss from the inside and outside of the tube wall.

How it works

The IRIS probe consists of a rotating mirror that directs the ultrasonic beam into the tube wall. The mirror is driven by a small turbine that is rotated by the pressure of water being pumped in. As the probe is pulled the spinning motion of the mirror results in a helical scan path.

Where is IRIS used?

Most commonly used in boilers, heat exchangers, and fin-fan tubes.

IRIS is often used as a back-up to electromagnetic examination of tubes, to verify calibration and accuracy. Especially useful as a follow-up to remote field testing, due to the full sensitivity near tube, support structures provided by IRIS.


Why should I use ITCL?

ITCL prides itself on the high quality of application and testing by experienced technicians.

Our workforce is fully qualified to current standards and works to approved procedures and control checks. Environmental and Health & Safety issues are of paramount concern to all staff working on your site. Expert consultation is always available.

ITCL offers a comprehensive 24hr in-house and on-site service.

Head Office: Elm Court,
Newbridge Road, Ellesmere Port,
Cheshire, CH65 4LY

 +44 (0)151 356 7118

 +44 (0)151 357 1669

 enquiries@itcl.org.uk

 www.itcl.org.uk