

# IRIS

## Ultrasonic Internal Rotary Inspection System



*The IRIS inspection technique is performed by inserting the tool in the tube and flooding the tube with water.*

The IRIS technique “gets the picture” without pulling the tube. While other NDT techniques produce hard-to-interpret signals, IRIS provides the tube wall image, identifying corrosion, pitting and wall loss.

The Ultrasonic Internal Rotary Inspection System (IRIS) is based on the principle of measuring thickness using ultrasonic waves. The IRIS probe consists of an ultrasonic transducer that is lined up in the centerline of the tube and incident on a rotating mirror. The mirror reflects the beam in the radial direction as it rotates in the tube. The IRIS probe scans the entire circumference of the tube as it is pulled through the tube.

### Applications

Heat exchanger tube inspections; Main condensers; Fin/fan units; Caustic heaters; Hydrogen coolers; Lube oil coolers; Packaged boilers; Overhead condensers

### Advantages

- Provides full inspection of the tube circumference
- For use in all types of metal tubing, ferrous and non-ferrous
- Complementary tool for use in follow up on Eddy
- Current or MFL inspections in order to pinpoint defect depths to the nearest .002”