Time of Flight Diffraction (TOFD) is a fast and recordable inspection method, highly sensitive to defects at the ID surface of the test item.

TOFD offers a high degree of accuracy for through-wall sizing and repeatability of results for indication monitoring purposes. TOFD is particularly suited for weld inspection, and for the detection of Weld Root Corrosion. Using two angled probes in a pitch-catch configuration, TOFD can bypass the physical restriction presented to 0° techniques by the weld cap.

Proven reliability for detection and sizing of Weld Corrosion

TOFD has the capability to detect multi-faceted flaws regardless of their orientation as, differing from conventional ultrasonic techniques, TOFD does not rely on sound being reflected back to the transmitting probe for measurement.

TOFD can be performed on a range of materials, diameters 2" to flat, and over a wall thickness range of 7mm to 300mm.