

Dependability Quality



TECHINCO

CORROSION & NDT MANAGEMENT

Technical Inspection &
Corrosion Control Company
Since 1994

ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007, IMS

Other Asset Integrity Management Tools

- Risk-Based Inspection (RBI)
- Reliability Centered Maintenance (RCM)
- Hazard and Operability Study (HAZOP Study) and Safety Integrity Level (SIL Study)
- Fitness For Service (FFS)
- Failure Mode, Effect and Criticality Analysis (FMECA)
- Fault Tree Analysis (FTA)
- Material and Coating Selection
- Corrosion Monitoring and Controlling System
- Cathodic Protection

Certified By:



Membership of:



ToFD Lite



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WHEN YOU NEED

WELD INSPECTION

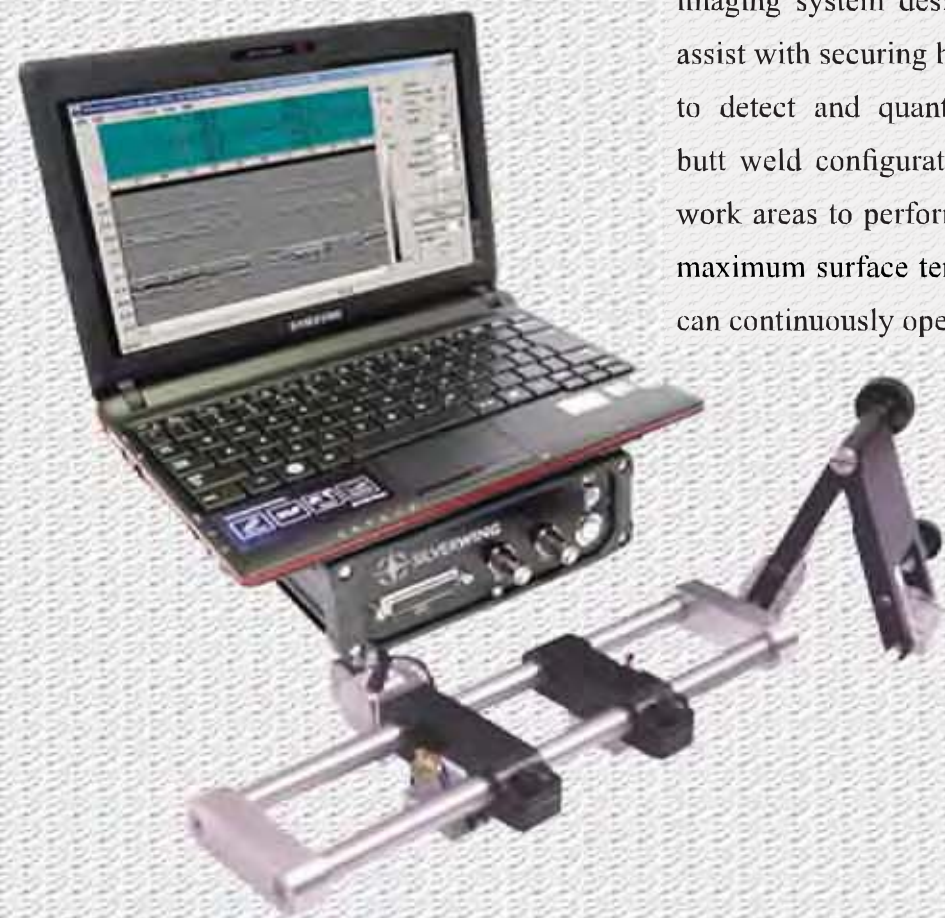
Address: No. 18, Kooh-e-Noor St., Motahari Ave., Tehran, Iran

ToFD Lite

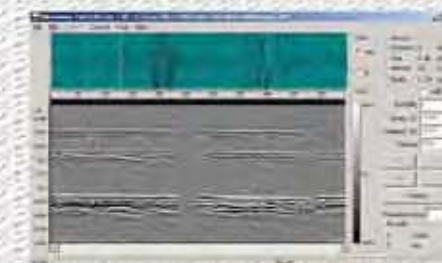
ToFD Lite

ToFD Lite unit is a portable twin Probe **ToFD** scan imaging system designed to capture data images to assist with securing hard copy as well as accurate data to detect and quantify any weld defect in simple butt weld configurations without the need to barrier work areas to perform conventional radiography. The maximum surface temperature the **ToFD Lite** system can continuously operate on is 80°C.

Time of Flight Diffraction (**ToFD**) inspection employs two longitudinal wave (L-wave) angle beam transducers arranged symmetrically opposite facing each other, straddling the weld or base material under test. One probe acts like a transmitter of ultrasonic energy while the other probe receives the ultrasound energy. The transducer, pulser, and amplifier characteristics are selected to generate as broad distribution of energy as possible over the material under test providing full weld coverage. A single-axis scan (that is, along the weld), with a position encoder records the position of the weld and enables the display of digital images in real time.



The **ToFD-Scan Lite** operates with various surface geometries including plates, small bore pipes, very large diameter pipes as well as restricted and difficult to reach areas.



ToFD Software

The **ToFD** software can display the active A-scan and the D-scan image on the same screen. D-scans can be printed directly from the software or the easy to use image copying tools can be used to export recorded A-Scan and D-Scan images directly into Microsoft Word or Excel. The software also features several measurement tools such as thickness, height, lateral, backwall and length measurements for accurate measurement of recorded scans.

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