



TOFD

Time Of Flight Diffraction

An alternative to radiography for quick high-performance inspection of welds

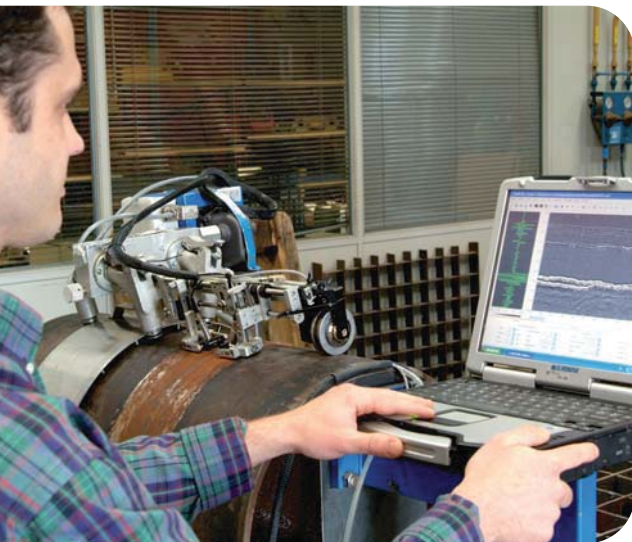
> Why using TOFD?

- In order to reduce inspection times during installation shut-downs
- To replace radiography when installing pipelines and pipes
- To improve the detection sensitivity when looking for metallurgical damage
- To monitor the propagation of manufacturing defects or those appearing in service
- To determine the size of defects in order to evaluate their harmfulness effect



> Why choosing IS Industrie?

- For its experience of major fluid conveyance and refining projects
- For its capabilities: more than ten TOFD-approved teams, considerable material means
- For its talent for innovation: since 2000, it has initiated and supervised the European TOFDPROOF project for the establishment of European standards; development of analytical aid tools
- For its reputation: 1st company to be qualified for the application of TOFD on pipe installation sites in France
- For its additional capabilities in the investigation of defects and in the evaluation of detrimental effects
- For its references: Alstom, CMP, EDF, Exxon, GRT-Gaz, Sar (Senegal), Shell, South Pars Gaz Complex (Iran), Spac, Technip, Total ...



> The technique

- A pair of probes working in transmission is displaced parallel to the axis of the weld or of the defect to be investigated, using a mechanical trolley
- The ends of the defects diffract the ultrasonic waves and generate defect echos
- A dedicated software is used to acquire and process the signals. The electronics and the probes are specific to the process, the mechanical part is adapted to the geometric configuration

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