

UI-27 超音波TOFD法

UI-27 ultrasonic TOFD (Time Of Flight Diffraction) method

検査対象/Inspection target

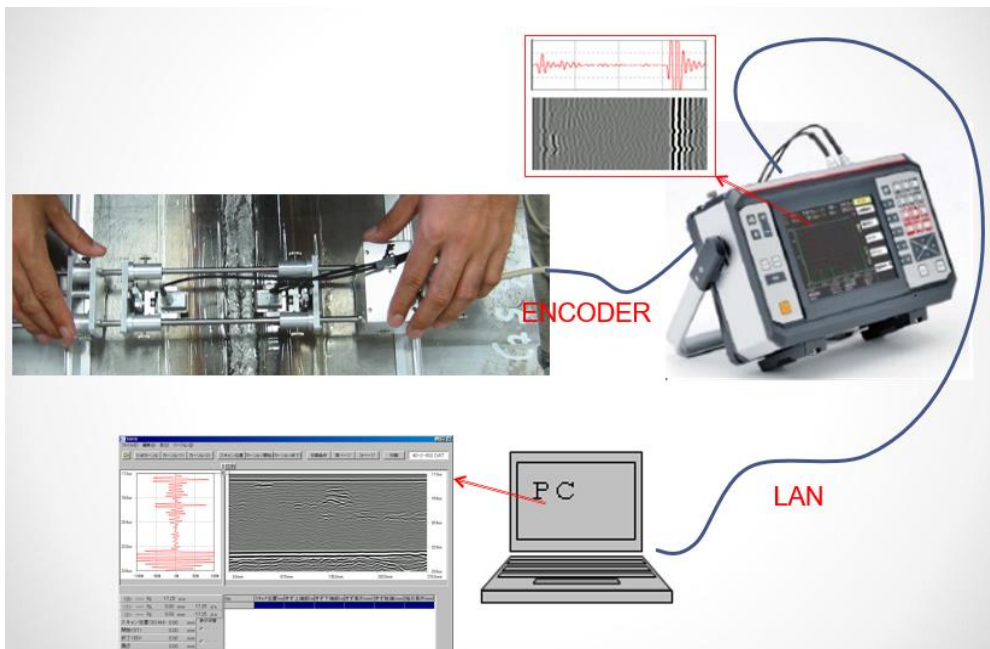
詳細はお問合せ下さい

Please contact RYOSHO for details.

- TOFD (Time Of Flight Diffraction) 法はきずの端部で発生する回折波の伝搬時間差を計測し、溶接部内のキズの深さ及び寸法を計測します。
In the TOFD (Time Of Flight Diffraction) method, the propagation time difference of the diffracted wave generated at the edge of the flaw is measured.
Measure the depth dimension of the flaw in the welded part.
- 溶接部の超音波検査：溶接部のキズ深さ計測、溶接部内のきずの有無を検出します。
Ultrasonic inspection for welding part : It measures the crack depth of the welded part.
And detects the presence or absence of flaw in the welded part.



人工キズ付き試験体とTOFD用1軸スキャナ装置



UI-27 TOFDシステム構成 / UI-27 TOFD system configuration

概要・特長 / Features

- キズ高さの測定精度が高い。
- 検査スピードが早くリアルタイムキズ画像取得が可能。
- 内在キズと開口キズの識別が可能。
- 検査結果の定量性・再現性が良く、キズの経年変化等の追跡調査に最適。

The measurement accuracy of defect height is high.
The inspection speed is fast and real-time defect images can be acquired.
It is possible to distinguish between internal defects and open defects.
The quantification and reproducibility of the test results are good, which is ideal for follow-up surveys such as aging of defects.

