Echomac® Weld Line Tester

Ultrasonic Testing of Tube Weld Quality During Production
Monitor Weld Quality as the Tube is being Produced

- Test for longitudinally oriented defects that are typical of the ERW welding process.
- Typically, four channels are used with both CW and CCW sound modes for detection of ID and OD longitudinal defects between 5% and 10% of wall thickness. Additional channels can be added.
- Operates with Echomac® instrumentation, and a test head incorporating transducer assemblies with irrigated shoes for constant coupling with the tube being tested.
- Test head is supported by a grantry that allows it to operate on the weld line for mill testing, or off line for easy calibration for a new tube size.

- Entire test head including the transducer assemblies can be rotated using a convenient “joy stick” to follow the weld to achieve continuous optimal testing over a weld position of 10:00 to 2:00 o’clock.
- Operator can verify the position by observing a monitor display of a laser beam that must bisect the weld center.
- Change out individual transducer shoes for size changes in 5 seconds using quick disconnect mechanism.
- Coupling alarm alerts the operator to any loss of coupling between any transducer and the tube caused by loss of water or improper alignment.
- System is programmed with the transducer locations, and a spray marker located down stream automatically sprays paint onto the actual defect location to enable sorting of the cut tubes.

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