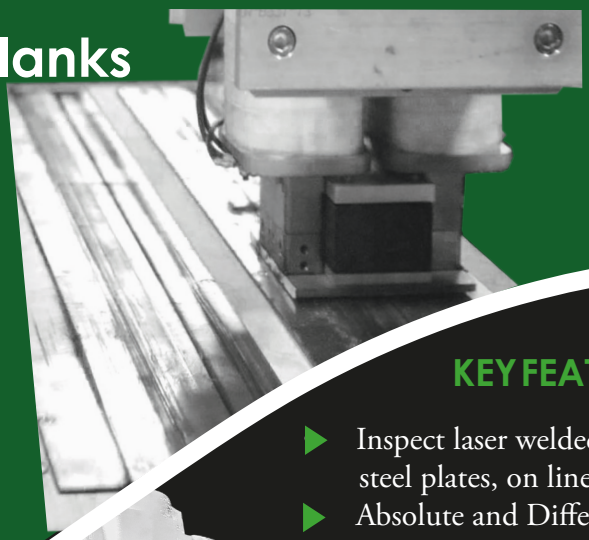
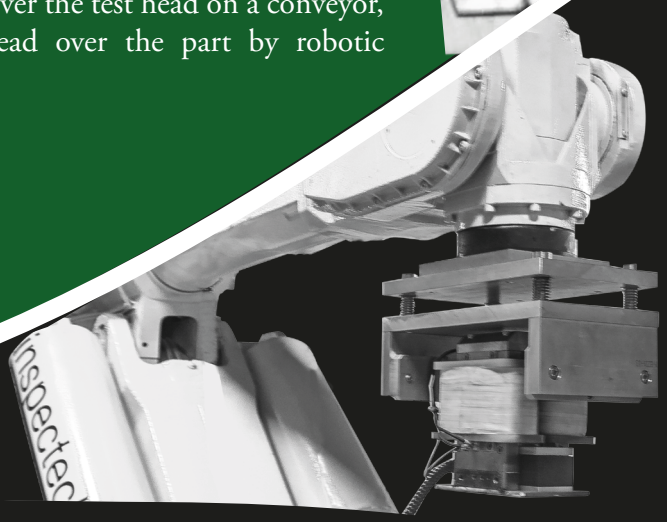
MAGNETIC FLUX LEAKAGE SYSTEM

Inspection of laser welded blanks



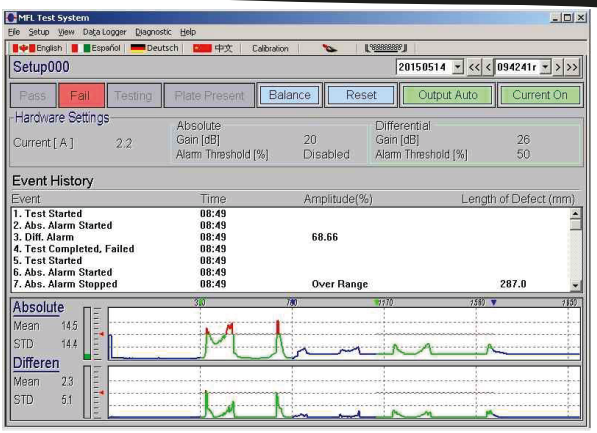
While Magnetic Flux Leakage (MFL) method is one of the oldest NDT methods, its utilization to test laser weld seams in carbon steel tailored blanks is relatively new. Simplicity of setup and high sensitivity make the method a superior alternative in an industry previously dominated by Ultrasonic EMATs and Eddy Current testers.

The standard MFL package offered by InspecTech can test welded steel blanks up to 3mm thick. Testing is done by passing the material seam over the test head on a conveyor, or by passing the test head over the part by robotic manipulation.

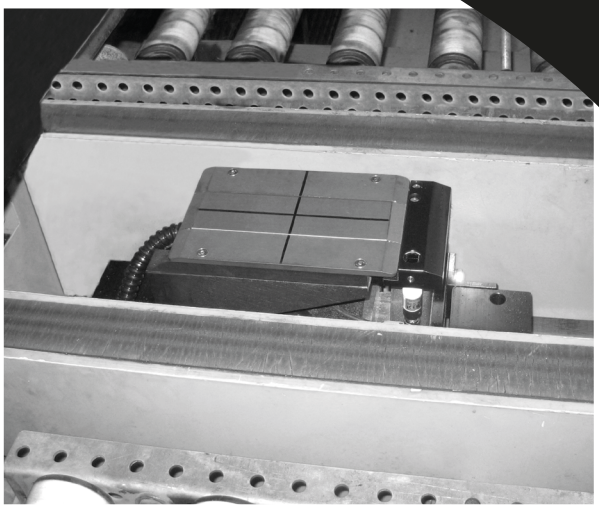


KEY FEATURES

- Inspect laser welded seams in carbon steel plates, on line, at high speeds.
- Absolute and Differential channels differentiate between short and long defects.
- Ideal NDT for carbon steel plates up to 3 mm in thickness.
- Programmable set-up and changeover between products.
- Storage of all test results based on time, or piece by piece basis.
- Calibrates on 10% OD and ID notches and 0.5 mm holes.
- Economical and user friendly.



Operator's Screen with Absolute and Differential channels



The typical location for the MFL system can be directly after the welder on the welding line, or at a downstream handling station for the welded product.

There is also a special version of MFL system designed for use on a continuous welding line. It has a marking system to spray defects and a modified machine interface.

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