

THETA TECHNOLOGIES
SONIC DEFECT DETECTION

PRESS RELEASE

20 July 2015

Theta Technologies presents innovative technique at UK's premier NDE event

Unlike traditional ultrasonic systems, Theta Technologies' Non-Destructive Evaluation (NDE) process interprets the non-linear acoustic response of materials and components in order to characterise their properties and detect potential flaws at a very early stage. By 'early' Theta means before the material degradation is visible on the surface or, in some cases, is detectable by any other means.

Theta Technologies has invested many years into the research and development of its innovative NDE technology. Its latest developments look set to revolutionise the world of NDE and will be presented at this year's conference for the British Institute of Non-Destructive Testing.

"Our unique capability is to see features at an early stage, to anticipate and avoid costly structural failures" says Managing Director, Julian Wright, "seeing things that other tests don't."

Theta's latest project started with collaborative research funded by the European Union and has created an automated two-axis scanner to test for 'kissing bonds' in friction-stir welds (FSW) in aluminium plates. These kissing bond defects can significantly reduce the strength and reliability of FSW parts and obviously increase the risks of premature component failure. Difficulties in identifying these flaws with traditional NDE techniques have inhibited the widespread adoption of FSW in the aerospace, nuclear and automotive sectors. This new development from Theta Technologies offers the real prospect of overcoming those limitations.

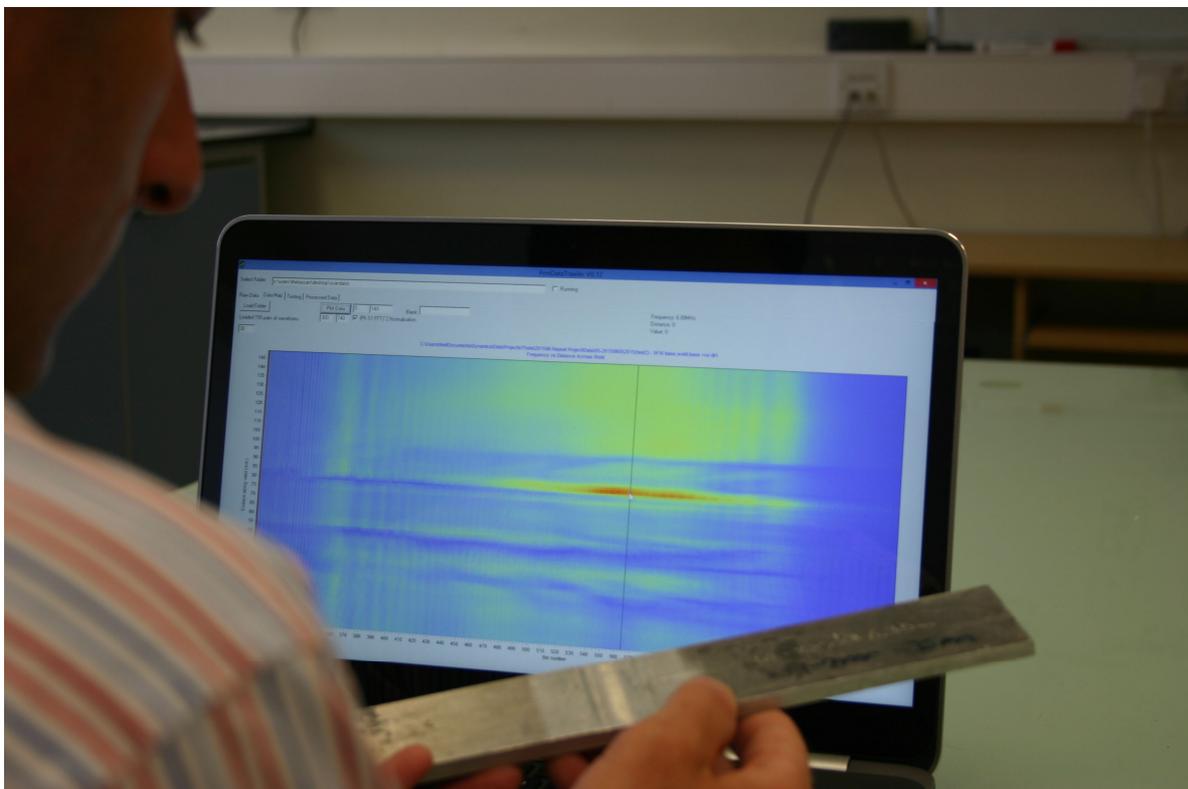
These are the results that will be presented as a conference paper at the forthcoming 54th Annual British Conference and Materials Testing Exhibition of the British Institute of Non-Destructive Testing, over the 8 – 10 September at the International Centre in Telford.

Theta is also applying its NDE techniques to work that it is undertaking for the European Space Agency on the detection of delaminations and matrix cracks in carbon-fibre composites and on bespoke applications of this patented technology for various commercial clients.

Theta Technologies Limited

The Innovation Centre, University of Exeter, Rennes Drive, Exeter EX4 4RN
+44 (0) 1392 247912 info@thetatech.co.uk www.thetatech.co.uk
VAT Registration Number 108 3123 52 Registered in England number 6137537

Images:



Issued on behalf of Theta Technologies by:
Agitate PR Limited, 6 Sinclair Close, Gillingham, Kent ME8 9JQ
Tel:01634 261288
e-mail: PR@agitatepr.co.uk
Website: www.agitatepr.co.uk

Theta Technologies Limited
The Innovation Centre, University of Exeter, Rennes Drive, Exeter EX4 4RN
+44 (0) 1392 247912 info@thetatech.co.uk www.thetatech.co.uk
VAT Registration Number 108 3123 52 Registered in England number 6137537