



TWI's Non-Destructive Evaluation Group

TWI's Non-Destructive Evaluation (NDE) Group brings together expertise from TWI's Cambridge Headquarters with two regional, specialist Technology Centres.



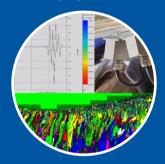
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NDE - Advanced Solution Development

Solutions for large composites inspection



Solutions for inspection of challenging materials



ROBOTICS

COMPLEX GEOMETRIES

INLINE INSPECTION

CO-BOTS

FMC & CM

NDE

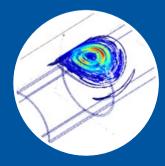
METHODS

Advanced NDT

and Condition

Monitoring

Solutions for developing NDT through modelling

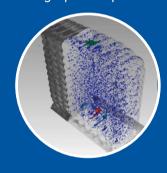


SOFTWARE

Solutions for Condition Monitoring



Solutions for challenging digital radiographic inspection



Solutions for challenging ultrasonic inspection



NDE - Advanced Solution Development Highlights

- DIGITAL RADIOGRAPHY, MICROFOCUS X-RAY AND CT
- CORROSION RESISTANT ALLOY WELDS AND CLADDING INSPECTION
- EDDY CURRENT INSPECTION FOR COMPLEX GEOMETRIES

- ADVANCED ULTRASONIC TESTING METHODS
- COMPLEX AEROSPACE COMPONENT INSPECTION
- ACOUSTIC EMISSION AND VIBRATION MONITORING













FULL-MATRIX CAPTURE (FMC)

BESPOKE SOFTWARE DEVELOPMENT

ROBOTIC NDE

ADVANCED ULTRASONIC TESTING

Advanced NDE Inspection Capability Highlights

- OFFSHORE JACKET FOUNDATION INSPECTION
- POLYTEST POLYETHYLENE PIPE WELD INSPECTION
- PHASED ARRAY/FMC/UT INSPECTION

- WTG BLADE ROOT INSPECTION
- LONG RANGE UT
- ACFM













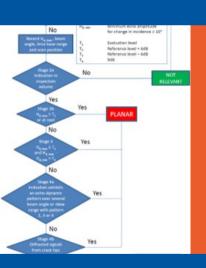
DPI/MPI

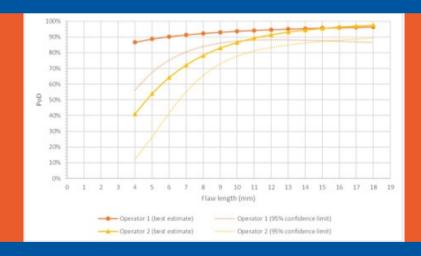
EDDY CURRENT ARRAY

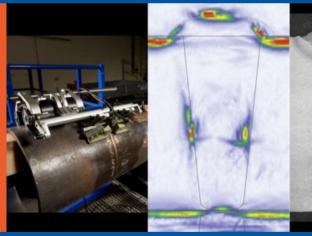
TIME OF FLIGHT DIFFRACTION

ELECTROMAGNETIC ACOUSTIC TRANSDUCERS

- BESPOKE TECHNIQUE AND SOFTWARE DEVELOPMENT
- PROCEDURE DEVELOPMENT
- QUALIFICATION
- DEVELOPMENT OF BEST PRACTICE AND ACTIVE PRESENCE ON STANDARDS COMMITTEES











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