

REF: AEMRI-229-ECATI Eddy Current Array Test Instrument

Buyer: TWI Ltd

Description:

TWI is one of the world's foremost independent research and technology organisations, with expertise in solving problems in all aspects of manufacturing, fabrication and whole-life integrity management technologies. Established in Cambridge, UK in 1946 and with facilities across the globe, the company has a first class reputation for service through its teams of internationally respected consultants, scientists, engineers and support staff, whose knowledge and expertise is available to its Industrial Members as and when they require. This specification has been produced as part of an initiative known as AEMRI (Advanced Engineering Materials Research Institute), which is funded by the Welsh European Funding Office (WEFO) using European Regional Development Funds (ERDF). AEMRI seeks to create a unique facility housing a critical mass of equipment, expertise and resources. AEMRI provides an environment to test and prove the limits of performance of advanced materials. Through the use of advanced modelling and simulation methods, full, large-scale mechanical test structures will be designed and built upon finite element analysis (FEA) calculations. Advanced, automated non-destructive evaluation (NDE) techniques will be developed with the aim of saving the industry time and production costs as well as minimising the risk of catastrophic structural failures. AEMRI will deliver the objectives of the project through the following four technical strands:- Modelling and Simulation of High Performance Materials and Structures. - Advanced Robotic Inspection of Complex Geometry Structures. - Inspection Systems for Very Large Structures for the Green Energy Sector. - Nuclear Fabrication Research Centre. TWI Wales has a requirement for Eddy Current array equipment (for an AEMRI project known as INTACOM) with the ability to interface with our Robot facility. The ability of the equipment via a Software development kit (SDK) to interface with the Robot facility and the ability of the equipment to drive a range of other sensors will open a wide range of inspection possibilities to TWI Wales. Our goal is to enable the Robot facility 'recognise' the geometry of a component, be able to deploy sensors, collect data and produce an output showing the structural status of the component. Please note, all communication must be carried out using the In-Tend correspondence function.

Country:

United Kingdom

Published date:

May 12 2022

Deadline:

Jun 09 2022

CPVs:

38540000 - Machines and apparatus for testing and measuring

38900000 - Miscellaneous evaluation or testing instruments

Address:

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Link:

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