FRACTAL ENGINEERING SOLUTIONS LTD



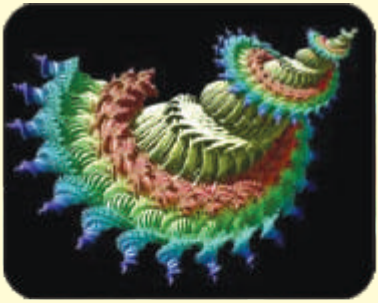




FLEXIBLE SOLUTIONS FOR YOUR BUSINESS NEEDS

ABOUT US

The Fractal Engineering Solutions LTD is a young and dynamic company with a vision to be the preferred and trusted supplier of highly skilled engineering services to the world.



Our services include :

- *CE Certification*
- *Machine Appraisal and Valuations*
- *Independent Design Assessments and Technical Audits*
- *Expert Witness and Arbitration*

Our chartered engineers are internationally reputed and are able to deal with a wide range of engineering problems. With a global network of associates, we can provide services to virtually any corner of the world.

CHARTERED ENGINEER CERTIFICATION

EXPERT ADVICE ON EXPORT OF USED MACHINERY TO INDIA

In order to export used machinery to India, it is a mandatory requirement of the Indian Government to obtain a Chartered Engineer Certificate (CEC). This applies to any equipment that is used, second hand, refurbished or rebuilt. It is mandatory to produce this CE Certificate during customs clearance for such goods in India, otherwise machinery will be rejected by customs at the port of entry in India, resulting in costly delays and increased expenditure.



Fractal Engineering Solutions LTD is authorized by Indian Directorate General of Foreign Trade (DGFT) to provide CE Certification to exporters and importers. We have a global network and we can provide services at virtually every harbour and airport around the world. Having a proper CEC that is accurate and correctly formatted can avoid unnecessary and costly delays in shipping.

Our service includes a site visit to inspect the equipment and a draft report which can be verified by the client or the import agent in India. The final certificate is then stamped and sent with the equipment.

Our certificate describes the details of equipment being inspected and includes a general description of the equipment, the condition of the equipment, the value, the year of manufacture and the estimated residual life. It also refers to relevant documents, spare parts and accessories where appropriate.

Although it is not a test of the machine performance or reliability, any problems and defects are recorded and if it is necessary to refurbish or repair the machine in order to bring it back to a good condition, this is included in the certificate along with the estimated costs. We also recommend any remedial steps needed to gain successful approval for equipment export.

OUR RESEARCH PUBLICATIONS



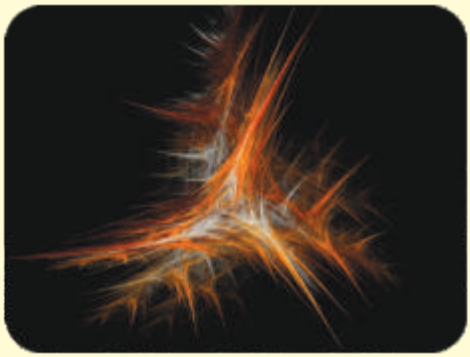
- Improved Accuracy of Fault Diagnosis of Rotating Machinery using Feature Selection, *ASME Turbo Expo 2003, Atlanta, Georgia, June 16-19.*

- Guiding of Ultrasound by a Welded Joint in a Plate, *Proceedings of QNDE 2006, Portland, Oregon, July 30- Aug 04.*

- Diagnosis of Rotor System in Noisy Conditions using Artificial Neural Networks and Genetic Algorithms, *International Journal of COMADEM,2002, 5(4), 21-29.*

- Multi Defect Diagnosis of Rotating Machinery using Genetically Evolved Neural Networks, *Journal of Vibroengineering, 2002, 1, 16-24.*

- Improving the Classification Accuracy of Fault Diagnosis in Rotating Machinery Using Genetic Algorithm, *Journal of Acoustical Society of India, 2001, Vol2 151-160.*



- Diagnosis of Rotating Machinery using Multi Layer Feed Forward Neural Network Trained with Genetic Algorithm, *Proceedings of 8th National Technical Session of MIRC-ASA, 18th Sept2002, Chennai, India, 89-102*

- Wavelet De-Noising and Signal Selection for Improving the Accuracy of Fault Diagnosis of Rotating Machinery with Noisy Field Data, *VETOMAC-2,16th Dec 2002, BARC, Mumbai, India.*

GLOBAL RECOGNITION

We won awards from Acoustical Society of India and MIRC of Acoustical Society of America for our research work on the use of Artificial Intelligence for fault diagnosis of machinery.

GLOBAL REACH

With our expert engineers and a global network of trusted partners and associates, we are able to provide consultancy services in a wide range of areas and virtually to any corner of the world.

BUSINESS ETHICS

Honesty & Integrity
Compliance with laws
Transparency
Value Creation

www.fesdirect.com

OUR PEOPLE

Dr Naresh Juluri

Fractal Engineering Solutions LTD is led by Dr Naresh Juluri. Naresh studied at the Indian Institute of Technology, Madras where he received a master's degree in Mechanical Engineering in 2002 and subsequently moved to Imperial College, London to conduct research on the use of guided ultrasonic waves for defect inspection of complex structures. He received a PhD from Imperial College, London in 2007 and was also elected a member, with CEng registration, of the Institution of Mechanical Engineers, UK.

Naresh has over 10 years of inspection and testing experience and his research work has been published in various international journals and conferences. He also won awards from Acoustical Society of India and MIRC of acoustical Society of America for his research work. He is a can-do type of a person with an attitude for hard work and easily adaptable to new business environments.



Fractal

CEng

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