

ULTRAMAG

INSPECTION SERVICES



established
1974
ULTRAMAG
INSPECTION SERVICES



NON DESTRUCTIVE TESTING

MECHANICAL TESTING

VISUAL INSPECTION

PRESSURE TESTING

PIPEWORK SURVEYS

ULTRASONIC THICKNESS MEASUREMENTS

WELDING PROCEDURE TESTS

WELDER QUALIFICATION TESTS

EDDY CURRENT TESTING

POSITIVE MATERIAL IDENTIFICATION

HARDNESS TESTING

FERRITE CHECKS

CONSULTANCY

LEVEL 3 SERVICES

COATING INSPECTION

MAGNETIC PERMEABILITY TESTING

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Ultramag Inspection Services Ltd was established in 1974 to carry out Ultrasonic and Magnetic Particle Inspections in Southampton. Nearly 45 years later it has grown into an independent UKAS Inspection Body and 3rd Party Organisation with Accreditation to ISO 17020 and ISO 9001. Ultramag currently have two testing facilities in Southampton providing Non-Destructive Testing, Mechanical Testing, Thickness Measurement Surveys, Pressure Testing, Welding Procedure & Welder Qualification Tests, NDT Level 3 Services and Consultancy.

Ultrasonic Thickness Surveys

Thickness Measurement Surveys are a specialised area of the Company. Surveys are undertaken both internally and externally, and may be performed whilst in a dry dock or at sea. The Company hold approvals from American Bureau of Shipping, Bureau Veritas, R.I.N.A., DNV-GL and Lloyd's Register. Reports are produced using the classification society's electronic software and are available electronically. Thickness Measurement Surveys are also carried out on pressure vessels and associated pipework, which may include visual examinations.



Radiographic Inspection

Radiography is typically performed on welds, Forgings, castings or other product form, for the detection of Volumetric Defects. Radiography is carried out using Gamma Rays or X-Rays with either wet film or Computed Radiography (C.R). Components can vary from large Pressure vessels to small aerospace parts; and on welds, machined parts, rigging and many other areas of interest. Spacious radiographic bays cater for large items and site radiography can be carried out on non-transportable components.



Ultrasonic Inspection

Ultrasonic Flaw Detection is used to test many materials, from alloys to plastics and on varying configurations from pipework welds to forgings. Ultrasonic's can be used in a wide variety of applications from simple weld testing with Digital Instruments, to establishing a picture of what lies beneath a particular component surface using Phased Arrays. One of the new areas of inspection for the Company is Rope Access, along with N.D.T. and Paint Inspection, with the Renewables market being of particular interest.



Penetrant Inspection

Penetrant techniques include solvent colour contrast, fluorescent water washable and Post Emulsifiable fluorescent. Penetrant inspection will detect surface breaking flaws and can be used on magnetic and non-magnetic materials. We have general penetrant testing rooms and an Aerospace specific test room using these penetrant, along with cleaning tanks and inspection booths. Client approvals are held for Aerospace.



Magnetic Particle Inspection

Magnetic Particle Inspection can be performed as either a black and white or fluorescent technique on magnetic materials only and will find surface and slightly sub - surface flaws. Client The black magnetic inks are generally used with white contrast paint while the fluorescent magnetic inks are used with no contrast aid. Client approvals are held for Aerospace.

Pressure and Leak Testing

Pneumatic and hydraulic pressure & leak testing forms another special area of the Company's Testing & Inspection services. With 40 years experience, we are currently able to achieve pressures of up to 72,000 PSI hydraulically and up to 10,000 PSI pneumatically using air driven test pumps. We have specialised rigs and equipment for customer specific tests and can have jigs manufactured to customer drawings and specifications.

Welding Procedure and Welder Testing

Welding Procedure Qualification Tests and Welder Qualification Tests are written and witnessed by the Company, or in liaison with a Notified Body or Classification Society. Registered I.I.W. & E.W.F. Welding Technologists and Specialists perform the Testing & Inspections. The mechanical testing of welds is independently carried out by UKAS laboratories. Typical standards followed are BS EN ISO 9606, BS EN ISO 15614, AWS D1.1 and ASME IX. The companies Welding Inspectors cater also for welder training and may give advice on joint designs, materials and consumables, etc.



Accreditations and Facilities Ultramag currently have UKAS Accreditation as an Inspection Body to ISO 17020 and ISO 9001 Approval from BSI. The new Welding Technology and Mechanical Testing facility in Southampton is fitted out with cutting and testing equipment, where Ultramag can perform their own testing of welded samples. Our existing N.D.T. facilities cater's greatly for radiography, pressure testing and material evaluation. Personnel are qualified in all major national and international standards of certification.