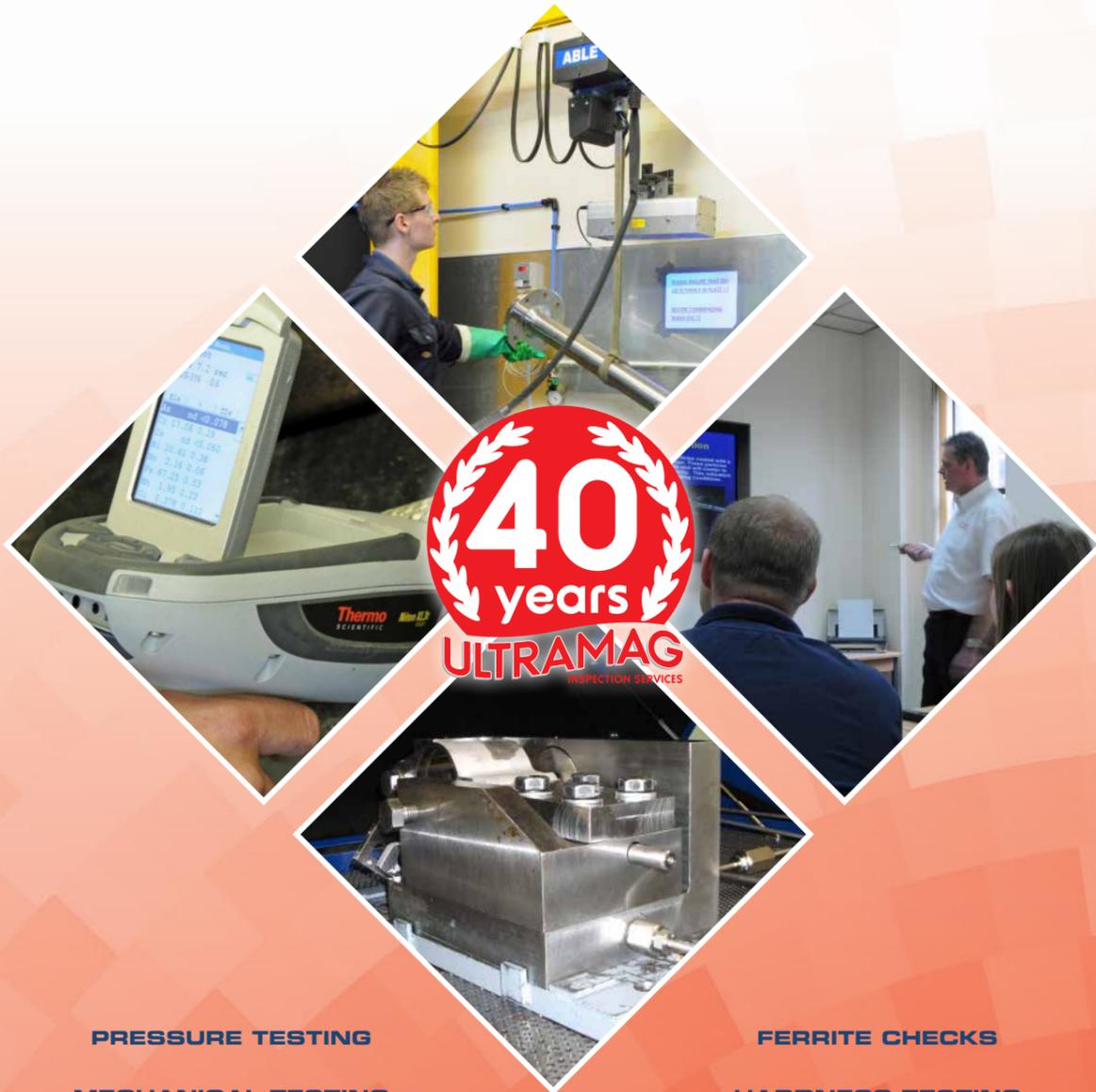


ULTRAMAG

INSPECTION SERVICES



40
years
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- | | |
|--|---|
| PRESSURE TESTING | FERRITE CHECKS |
| MECHANICAL TESTING | HARDNESS TESTING |
| WELDING PROCEDURES TESTS | EDDY CURRENT TEST |
| WELDER QUALIFICATION TESTS | POSITIVE MATERIAL IDENTIFICATION |
| ULTRASONIC THICKNESS MEASUREMENTS | MAGNETIC PERMEABILITY TESTING |
| NON DESTRUCTIVE TESTING | COATING INSPECTION |
| PIPEWORK SURVEYS | TRAINING COURSES |
| VISUAL INSPECTION | CONSULTANCY |

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Ultramag Inspection Services Ltd was established in 1974 to carry out Ultrasonic and Magnetic Particle Inspections in Southampton. Now 40 years on it has grown into an independent UKAS Inspection Body and 3rd Party Organisation with Accreditation to ISO 17020 and ISO 9001. The Company provides Non-Destructive Testing, Pressure Testing, Mechanical Testing, Rope Access, Thickness Measurement Surveys, Welding Procedure & Welder Qualification Tests, Training 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 Bureau Veritas, Det Norske Veritas- Germanischer Lloyd and Lloyd's Register. Reports are produced using the classification society's electronic software and are available electronically.



Radiographic Inspection

Radiography is typically performed on welds, forgings and castings for the detection of volumetric defects, and is carried out using Gamma Rays or X-Rays. 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 and Magnetic Particle Inspection

Penetrant techniques include solvent colour contrast and fluorescent water washable. Penetrant inspection will detect surface breaking flaws and can be used on magnetic and non-magnetic materials. 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 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.

Ultramag Inspection Services currently have N.D.T. facilities in Bournemouth and Southampton covering projects from the West to East Coast of England. The Company have agreed plans for a new building on the Southampton site, comprising of offices, N.D.T. workshops, Pressure Testing and Mechanical Testing facility; along with a new Training Centre. This will allow for a second large radiographic bay to be built next to our existing radiographic enclosure. To keep up with client demand, new reporting software, client database and job routing will be implemented along with increased staffing, including metallurgical personnel.

