Testconsult capabilities

Structural health monitoring, specialist testing services and equipment

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Ensure the integrity of your assets with Testconsult’s UKAS accredited services

Testconsult is a leading provider of structural health monitoring, specialist testing services and equipment to the construction, rail, highways and maintenance sectors.

A part of James Fisher and Sons plc, Testconsult is an innovative and fast growing company. Our highly skilled team has over 20 years’ of experience in structural investigation and materials testing, delivering solutions in our UKAS accredited laboratories across the UK and Ireland.

Testconsult can set up its UKAS accredited laboratories on-site under our flexible scope of accreditation.

Our expertise and understanding of the specialist testing environment enables Testconsult to provide a range of integrated testing and monitoring solutions, that meet the highly challenging and technically demanding needs of its customers. We also design and manufacture a range of high quality testing and monitoring equipment to support a variety of customers worldwide.

Testconsult is committed to the consistency of quality throughout all of its operations, ensuring best practice and compliance to regulations. Safety and reliability are critical factors in all our market sectors and we operate to a ISO 17025:2005 accredited quality management system to ensure service excellence throughout all of our laboratories.

Our industry accreditations and memberships reinforce our commitment to delivering the highest of standards to meet our customers’ high expectations.
Our capabilities

Materials testing
Testconsult operates fully equipped, UKAS accredited, materials testing laboratories throughout the UK and Ireland; as well as providing satellite laboratories for large contracts through our flexible UKAS scope of accreditation. Our laboratories are suitable for a range of materials testing including soils, aggregate, bituminous, concrete and also specialist chemical testing for contaminants in both soils and concrete.

Pavement testing
Testconsult’s pavement testing services meet the needs of highway owners, providing critical information of pavement condition, properties and performance. We provide a utility reinstatement assessment service for local authorities to improve the quality of reinstatement after utility repair and installation work. Testconsult operates a super heavy-weight Falling Weight Deflectometer (FWD) to detect pavement weakness and evaluate airport runways and taxiways.

Foundation testing
Testconsult offers a complete range of foundation testing services including pile integrity, sonic logging, dynamic pile testing, parallel seismic testing, zone testing, static load testing and bi-directional load testing.

Environmental monitoring
Testconsult is a specialist provider of environmental monitoring including noise and vibration monitoring services, ground movement monitoring and landslip monitoring.

Structural investigation
Testconsult is a leading expert in both short and long term structural investigation. We provide a comprehensive range of non-destructive inspection techniques to assess the structural health of bridges, buildings and many other structures. We also offer in-situ concrete testing and corrosion surveys.

Proof load testing
Testconsult provides full scale proof load testing services for a range of structures, barriers and equipment. We use a variety of non-destructive loading techniques, providing fast and cost effective ways for determining safety compliance and asset fitness integrity.
Monitoring systems

Testconsult provides integrated solutions that incorporate our wealth of experience, with the latest technologies, to provide world-class systems for the monitoring of safety critical, high value assets.

Our Smart Asset Management System (SAM™) brings together the appropriate toolbox of sensors and data acquisition equipment to provide the ultimate solution to your structural health monitoring needs.

SAM™ allows you to acquire, analyse and act on intelligence quickly and with confidence, ensuring a targeted approach to your asset maintenance.

The main displays are exclusively configured on a project by project basis to meet each asset’s unique requirements. The interface is completely flexible enabling data to be viewed in a variety of formats including moving graphics, 3D models, integrated maps, graphs, reports and alerts.

SAM™ is completely adaptable to your structural monitoring needs, providing real-time remote monitoring for:

- Bridges - BridgeWatch™
- Buildings - BuildingWatch™
- Tunnels - TunnelWatch™
- Wind turbines - TurbineWatch™

Superior and timely data that will maximise your productivity and safely extend asset life.
Our products

Testconsult has a long established reputation for the design and manufacture of high quality, specialist testing equipment.

All of our test systems have been designed in-house to meet the specific demands of the markets they serve. Our highly skilled team of experts drive innovative and cost effective solutions, that deliver improved operational performance to our customers worldwide.

We offer full training for all equipment purchased from Testconsult. Our training sessions are created and led by our in-house experts, providing you with the skills and knowledge needed to operate the equipment safely, efficiently and with confidence.

We provide classroom and site training across the UK, on-site training overseas and virtual classroom training options. No matter what your needs or technical experience we can provide the right training solution for your requirements.

To further support our range of products we also provide consultancy and technical advice, surveying, repairs and calibration.

Equipment available from Testconsult:

1. Pile integrity tester TDR2
2. Pile integrity tester TECO
3. Pile integrity tester TECO-LITE
4. Parallel seismic test system PARAS
5. Cross-hole sonic logging system SCXT3000
6. Dynamic pile test system SIMBAT
7. SPT Hammer energy tester SPTMAN
8. Plate load tester PLATEMAN
9. Semi-automatic static load test system SLT2
10. Automatic static load test system ASLT
11. Concrete slab tester TDR2-S
12. Large scale shearbox SB2010
13. Rate of corrosion tester BGCMAP
14. Octopus instrumentation

All of our products are supplied fully calibrated to UK national standards
Case studies

Crossrail

After four years of materials testing on the prestigious Crossrail transport scheme in London, Testconsult secured further contracts including foundation testing at three different underground stations and structural monitoring on the Canning Town Flyover.

Mersey Gateway

Testconsult secured a major materials testing contract for the Mersey Gateway project. We provided labour, equipment, supervision and temporary materials to undertake both on-site and off-site construction materials testing for the new six lane toll bridge over the River Mersey in North West England.

Saudi Electric National Grid

Testconsult have supplied test equipment and training support to Saudi Electric National Grid, who have been provided with a number of pile integrity testing and corrosion assessment systems, to enable the investigation of physical properties and corrosion activity below ground. Technical support has included visits to their Asset Management Divisions near Al Hasa and Dammam to provide training to the newly equipped teams.

The Queensferry Crossing

Scotland’s new Forth Bridge, the ‘The Queensferry Crossing’ is set to be a world leader in using structural health monitoring systems to actively support its management thanks to the application of BridgeWatch™. This sophisticated system doesn’t just collect data over long periods of time, it accurately acquires and processes data through clever algorithms using big data analytics to provide insightful information.

Global reach

As part of the James Fisher and Sons plc group of companies, Testconsult benefits from access to a wide range of support services for its customers. With a network of laboratories throughout the UK and Ireland, and by leveraging our global connections, Testconsult is well placed to support your specialist testing needs, wherever the location.