JFTS’ capabilities

Unrivalled experience in structural monitoring and specialist testing solutions worldwide.
With its industry leading structural monitoring and specialist testing solutions, James Fisher Testing Services facilitates proactive asset maintenance strategies delivering significant cost and operational efficiencies.

Our expertise and understanding within the specialist testing environment enables us to meet the highly challenging and technically demanding needs of our customers. We provide a range of integrated testing and monitoring solutions, including high quality testing equipment, to support a variety of sectors including construction, rail, highways and oil and gas.

Our highly skilled team has significant experience in structural investigation and delivering materials testing solutions through our UKAS accredited laboratories across the UK and Ireland, and on-site UKAS laboratories under our flexible scope of accreditation.

A trusted brand and international partner

James Fisher Testing Services (JFTS) is the new corporate identity of two industry leading organisations – Testconsult and the monitoring division of Strainstall. This new organisation brings together a cross-disciplinary team of experts with over 50 years’ experience in construction and infrastructure management.

A part of James Fisher and Sons plc, JFTS offers a comprehensive range of services within the fields of foundation and materials testing and structural health monitoring. Our range of expertise means we can provide for all your project needs; from pre-construction testing and geo-technical observation to whole-life structural health monitoring.

Expanding on our traditional operations, JFTS boasts an international presence with locations across the UK, Ireland, the Middle East and Malaysia. We can also draw upon the significant resources of the wider James Fisher group to offer a truly global service and an unrivalled ability to meet the constantly developing needs of the markets in which we work.

Committed to quality and safety

JFTS is committed to delivering high quality throughout all of its operations. Ensuring best practice and compliance to regulations as evidenced through our industry accreditations and memberships, we are committed to delivering the highest standards to meet our customers’ exacting requirements.

Safety and reliability are critical factors in all of the market sectors we serve. JFTS operates to an ISO 17025:2005 accredited quality management system to ensure the delivery of service excellence throughout all of our laboratories.

Ensure your assets’ integrity and improve operational safety with our UKAS accredited services.
Capabilities

Materials testing

JFTS’ UKAS accredited laboratories ensure rapid analysis for a more cost-effective materials testing solution.

We are equipped for a wide range of materials testing and for larger projects we can provide satellite pop up laboratories through our flexible UKAS scope of accreditation. We have a wealth of experience in providing bespoke materials testing services for major construction projects, with the delivery of safety and trusted testing methods our number one priority.

Pavement testing

JFTS’ pavement testing services ensure the quality of your highways project through the provision of critical information on pavement condition, properties and performance.

Our services employ high quality, accurate testing equipment including a super-heavy-weight Falling Weight Deflectometer, to deliver fast and efficient testing with a rapid response nationwide.

Structural investigation

As the leading experts in short and long-term structural investigation, JFTS designs bespoke inspection solutions to assess the condition, serviceability and compliance of your high value assets.

With over 25 years of experience and a highly skilled team of specialists, we provide surveying, sampling and testing for many high profile structures around the world, delivering full project management from start to finish.

Foundation testing

JFTS’ experience, skills and resources enable a rapid response service for quick on-site evaluations, whilst ensuring application of the best foundation testing methods for your needs.

Our highly skilled testing team can provide a tailored service with a broad range of loading capacities and non-destructive testing methods. Testing methods include pile integrity, sonic logging, load testing and seismic testing.

Environmental monitoring

Using the latest testing equipment, JFTS’ specialist team of technicians provide monitoring before, during and after project completion.

We are the market leader in environmental monitoring with significant experience across a range of projects, delivering results that you can rely on and ensuring full compliance to government guidelines for noise, vibration and dust levels.

Proof load testing

JFTS’ proof load testing services provide a fast, conclusive and cost-effective way to determine safety compliance and asset integrity.

We provide a comprehensive range of tests and testing equipment which can be deployed quickly anywhere in the UK and Ireland. Loads are applied either dynamically or statically, depending on the testing requirements, using a variety of non-destructive testing loading techniques.
Monitoring systems

Smart Asset Management (SAM)™ software enables you to maximise productivity and significantly reduce operational costs through the whole life management of your asset.

SAM™ provides the ultimate solution for transforming raw data into insight driven actions. The intelligent software will acquire, analyse and create real-time reports from data, allowing you to act quickly and with confidence.

Designed with a focus on speed-to-action management, SAM™ software is an advanced data analytics system which continuously calculates and streams dynamic information on your asset in real-time.

SAM™ provides the ideal platform for the cost-effective management of data throughout the whole life cycle of your asset or project. When integrated with the appropriate toolbox of sensors, data acquisition equipment and unique data processing capabilities, SAM™ creates the flexibility and precision which enables improved asset management and reduced costs.

Benefits of Smart Asset Management™ software:

- Quality data provides the opportunity to predict failure
- Provides confidence to plan preventative maintenance
- Allows faster reactions to maintenance needs
- Optimises repair and maintenance strategies
- Reduces failures / increases safety / reduces costs / minimises downtime

The system can be configured for any asset management related activity, at any stage in the lifetime of an asset. From initial design and site testing, through construction, operation and maintenance, to life extension and decommissioning, data is produced, stored and continuously analysed.

SAM™ main displays are exclusively configured for every asset to meet your specific requirements.

- Correlation
- Graph analysis
- Real-time stress
- Real-time sync

SAM™ provides you with superior and timely data that will maximise your productivity and safely extend asset life. The software and reports can be branded for your project needs, and are available securely over the internet via PCs and other mobile devices.

The user displays can be based on maps, plans, drawings, sketches, photographs and 2D or 3D graphics, with animations representing the real-time movements.
Products

JFTS has an established reputation for the design and manufacture of high quality testing equipment, delivering improved performance across customer operations.

All of our specialist testing equipment has been developed in-house to meet the specific demands of the applications it serves. Our highly skilled team of testing experts drive innovative and cost-effective solutions for our customers worldwide, as well as providing consultancy and technical advice, surveying, repairs and calibrations.

Equipment training

We offer full training for all equipment purchased from JFTS. 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 you.

Equipment available from JFTS:

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 BGCAMAP
14. Octopus instrumentation

All of our specialist testing equipment is supplied fully calibrated to UK national standards.
After four years of materials testing on the Government’s highly prestigious Crossrail transport scheme in London, JFTS secured three further contracts on one of the biggest civil engineering projects in the UK. The additional work is symbolic of the great confidence in the industry leading provider of monitoring, instrumentation and testing services. In addition to concrete testing, the new contracts include foundation testing and structural monitoring.

During its fifth joint venture with Euroconsult SA, JFTS landed a contract with the Mersey Gateway for the testing of soils, aggregate and concrete materials for a new six lane toll bridge over the River Mersey in North West England. Working together as Eurotestconsult UK Ltd, the scope of work includes supplied labour, equipment, supervision and temporary materials for both on-site and off-site construction materials testing for the new road bridge and its associated side roads.

JFTS supplied a number of corrosion assessment systems for the Saudi Electric National Grid asset maintenance division, to enable the assessment of corrosion activity in transmission line towers below ground. Developed by JFTS, the BGCMAP corrosion system provides a rapid and reliable way of assessing the potential life of steelwork through on-site measurement of full LPR curve, ECcorr and polarisation resistance.

JFTS provided a rapid response to sudden transport infrastructure closure, with the installation of the state-of-the-art structural monitoring system BridgeWatch®, onto the Forth Road Bridge in record time. A dedicated team of specialist engineers were immediately mobilised from a nearby project on the Queensferry crossing to rapidly install a number of sensors. Crucial monitoring and engineering information to support the bridge’s reopening.

As part of the James Fisher and Sons plc group of companies, JFTS benefits from access to a wide, complimentary service offering for its customers.

With a network of laboratories throughout the UK and Ireland and by leveraging the group’s global connections, JFTS is well placed to support your specialist testing needs, whatever the location.
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