

ENGINEERING INTEGRITY

Instrumentation, Analysis & Testing

Exhibition - 16 May 2023



Exhibitors

A&D Europe GmbH UK Branch

31

A&D is a global supplier of powertrain and vehicle development solutions. We have over 30 years' experience in supplying measurement, control, and simulation equipment for the development of vehicles to the automotive industry. Our flexible approach helps customers to meet the current and future engineering challenges.

Acoustic Camera UK Ltd

60

We make sound sources VISIBLE! Optimise the sound of your product. See annoying sources live on-screen. See worn bearings or components and plan preventative maintenance. Find vacuum, gas and compressed air leaks and electrical discharge, saving \$\$\$\$. Reduce workplace and environmental noise. UK Distributor for top selling German quality manufacturer, offering rental, leasing and consulting.

AcSoft Ltd

55

At AcSoft we are committed to offering the very best sound, vibration, and air quality measurement systems.

We have a wealth of experience and can provide bespoke solutions to a wide variety of problems, whether it is providing sensors and instrumentation or software. We work closely with each client to ensure we meet their needs as effectively as possible.

Applied Measurements Ltd

37

Applied Measurements are a UK-based manufacturer and supplier of load cells, pressure sensors, LVDTs, torque transducers, draw wires and level & depth sensors for over 30 years.

Our expert UK pressure team provide OEM pressure sensors in low, medium, and high volumes. Visit our website. With many sensors in-stock and a UK supply of component parts for quick shipping.

Axiometrix Solutions

48

Axiometrix Solutions is a leading provider in test and measurement. Our global customer base can be found in most technology-intensive industries including electronics, aerospace, and automotive. Axiometrix Solutions consists of a strong group of well-established brands. Our three main product lines are industry-leading brands in their respective segments: Audio Precision, GRAS Sound & Vibration, and imc Test & Measurement.

CATS³

26

CATS³ is a specialist in design, development and supply of Digital Controllers and Software. The Cube provides a powerful solution to your servo-hydraulic testing needs. Scalable from single to multi-axis testing it is perfect for a wide range of test machines and rigs. Ideal for new systems or modernisations of existing test rigs. Proud to be associated with ZwickRoell.

Cambustion

52

For 35 years, Cambustion have manufactured and supported fast response gas analyzers. Their product portfolio now contains a wide range of aerosol and gas instrumentation with a particular niche being millisecond response measurements for analysis of each and every engine exhaust stroke, individual respiratory inhalations/exhalation events and very fast air quality measurements.



Carl Zeiss Ltd 24

ZEISS is a leading manufacturer of multidimensional metrology solutions including coordinate measuring machines, optical and multi-sensor systems and metrology software for the automotive, aircraft, mechanical engineering, plastics and medical industries. ZEISS Industrial Metrology UK is helping lead the way in providing complete solutions for multidimensional metrology, while offering a great demonstration centre for the CNC coordinate measuring machines and measurement services.

Concorde Publishing 65

Founded in 2010, and present at EIS Silverstone since 2011, Concorde Publishing Ltd provides high quality information to our professional and subscriber audience of test, measurement, design & development engineers. Our current range of journals includes Testing & Test Houses, DAQ Sensors & Instrumentation and Test House Directory as well as the websites TestHouseDirectory.com and EnvironmentalEngineering.org.uk

Data Acquisition & Testing Services Ltd 47

Data Acquisition & Testing Services provides, test, measurement, instrumentation, analysis and engineering consultancy services. Our field test engineers are available globally. Sales and service of the latest digital data collection equipment, with a full calibration facility for instruments and sensors, hire of dataloggers, sensors and cables is also offered. Vibration, and durability testing is available within our laboratory.

Data Physics (UK) Ltd 45

Data Physics supplies high performance products and solutions in vibration test and signal analysis to the noise and vibration community supplying and supporting a full range of Dynamic Signal Analysers, Electrodynamic vibration systems, closed-loop Vibration Controllers.

Datron Technology 17&18

Datron Technology established their reputation in the motorsport industry over 30 years ago supplying non-contact sensors for speed, slip angle, temperature, ride height etc. We supply reference-level accuracy equipment for ADAS and Autonomous applications, including 1cm Inertial Navigation Systems, Euro NCAP crash targets, LiDAR, datalogging and more. Other applications include Vehicle Dynamics, EV & Hybrid vehicle testing, Motorsport, Rail and Survey.

Delta Motion Ltd 32

Delta Motion is a manufacturer of industrial automation products with a focus on high-performance hydraulic motion control. Delta's RMC Motion Controllers can control systems with up to 50 axes of closed-loop position and pressure/force control. For over 40 years, Delta has been known for best-in-class products, and responsive, knowledgeable support.

Dewesoft UK Ltd 1&2

Dewesoft offers a wide range of measurement solutions covering measurement applications across all industries. DEWESoft provides flexible, modular and rugged Data Acquisition systems combined with a versatile turn key software package for Data Recording and Analysis serving applications such as Road Load Data recording, ADAS Testing, E-Mobility, Combustion Analysis, NVH, Power Analysis, Flight Test, Frequency Analysis and many more.

DWE Scientific Ltd 22

We at DWE Scientific Ltd are the official business partner in the UK and Ireland for Epsilon Extensometers, Ibertest Electro-mechanical and High Capacity static test systems, Step-Lab Electro-mechanical, Electro-dynamic and Drop weight Impact test systems, walter+ bai Servo-hydraulic and structural test systems, RUMUL Resonant test systems, ATS Creep/Stress rupture test systems and X-Sight DIC video extensometry systems.

Emissions Analytics Ltd 43

Real-world emissions testing is the foundation of our business, working globally on applications ranging from cars to marine vessels. We have parallel divisions tackling the environmental challenges of vehicle interior air quality and real-time measurement of tyre and brake wear emissions. Whether for research & development, regulatory preparation or benchmarking, our customers turn to Emissions Analytics for unrivalled expertise.

Endurica 23

Endurica offers the world's most versatile and best-validated fatigue life simulation system for elastomers. It provides fatigue analysis software, materials characterisation, training and consulting services to leading companies from the automotive, defence, medical, energy and rail sectors. Endurica's solutions allow engineers to address durability issues early in the product development cycle and its workflows get rubber products to market faster.

Evolution Measurement Ltd 24

Suppliers and manufacturers of high accuracy instruments which improve efficiency and productivity in pressure, electrical and temperature measurement applications. Their range of aerodynamic solutions includes; EvoScann® miniature pressure scanners which deliver powerful aerodynamic data for improved vehicle efficiency, custom flow probes, 3D flow measurement and visualisation system for wind tunnel testing and powerful pressure scanners for fast, accurate and synchronous testing.

HEAD acoustics UK Ltd 5

HEAD acoustics has developed hardware and software solutions for measuring and analysing sound events on the basis of aurally-accurate recording and playback systems, which have become today's industry standard. In addition, HEAD acoustics researched and developed numerous internationally-approved measurement tools in other fields of noise and vibration and telecommunication technology.

Hottinger Brüel & Kjær 3&4

Market leaders, HBM and Brüel & Kjær joined forces to become Hottinger Brüel & Kjær (HBK) - the world's foremost provider of integrated test, measurement, control and simulation solutions. HBK provides a complete portfolio of solutions across the test and measurement product life cycle, that unite the physical world of sensors, testing and measurement with the digital world of simulation, modelling software and analysis.

IDT (UK) Ltd 14

IDT manufacture compact and rugged high speed cameras, perfect for both lab and field tests. Short (impact) tests and sustained testing over longer time periods are made possible with the X-Stream Mini range of streaming cameras and recorders. Equally compact/ rugged LED lighting compliments the cameras, and analysis software to turn the images into quantifiable data, completes the testing system.



Indysoft Europe Ltd 38

IndySoft is a leading calibration and asset management software tool that's simple to use, very configurable, powerful, and flexible to suit all business types. Perform in-house calibrations, manage external sub-contracted calibrations, and keep track of your equipment with bar-codes or RFID tags. You can use IndySoft to manage other equipment schedules like Preventative Maintenance, Service/Repair, Vibration Testing, PAT Testing etc.

INNOVATEST UK Ltd 41

INNOVATEST manual or automatic hardness testing machines, often referred to as; hardness testers, can be used to test a wide range of samples and applications. We offer machines for Vickers, Rockwell, Brinell and Knoop test methods according to ISO and ASTM standards. Our Universal machines cover a wide range of test methods and scales to suit the users' requirements.

Institute of Measurement and Control 66

Founded in 1944 and recognised by Royal Charter, the Institute of Measurement and Control is an international network of professional engineers and scientists working within the measurement, automation and control fields. We aim to promote high standards of professional competence, to inform and support our members in their careers, to provide a bridge between academic research and industrial practice and to inform government policy.

Interface Force Measurements 9

If you have an application that requires measurement of force or torque in one or more directions, pressure measurement or even pressure mapping for comfort, ingress/ egress, tire studies or even high-speed impact testing, then speak to us at Interface Force Measurements during your visit to E.I.S. Custom and multi-axis, IP68 rated force sensors a speciality.

IPETRONIK GmbH & Co. KG 16

360° engineering for the mobility of the future. IPETRONIK is the comprehensive testing equipment expert for signal conditioning, data acquisition, datalogging, and data management for test and measurement applications. Our hardware and software offer a front to end solution made for harsh and challenging applications covering vehicle busses (CAN, CAN FD, LIN, FlexRay, Ethernet) and Protocols (CCP, XCP, UDS, OBDII, J1939).

Kemo Ltd 44

Kemo Limited has been a global leader in the manufacture of signal conditioning and electronic filters solutions since 1965. Over the years the product range has expanded to include accelerometers (IEPE and Piezoelectric) in addition to accessories, low noise cable solutions and high-quality RF connectors. Based in Dartford, Kent, UK they are now expanding into the USA and India.

Kistler Instruments Ltd 56&57

Kistler Instruments Ltd specialises in dynamic pressure, force, torque and acceleration measurement technology. As well as Fiber Segment Interferometry. We offer a range of products for automotive development. At the exhibition we will be demonstrating our Measuring Steering Wheel and S-Motion optical sensor, from our vehicle dynamics range. We will also feature KiBox 2, our new combustion and power analyser.

Lake Image Systems Ltd 59

Lake Image Systems specialises in complete motion analysis systems. We have a range of high speed cameras from the low end 1,000 fps to over a million fps and the tracking and analysis software to complete the solution. For all your motion analysis needs come and see our range at our stand.

M&P International 7

Whether it's shaker testing, dynamic measurements, sound and vibration investigations on site or in the lab or high-channel count data monitoring. We support you with products and services that meet your highest standards of quality and reliability. Our customers are global players e.g. from the aerospace, automotive and electronics industries as well as independent test houses, universities and research institutes.

Magnaflux 53

Magnaflux is a global leader in non-destructive testing solutions, offering a range of techniques including liquid penetrant, magnetic particle, and ultrasonic testing for manufacturers, test labs and field inspectors. With a manufacturing operation in the UK, Magnaflux sets an uncompromising stance on safety and performance to ensure the very best quality control for the most critical components.

McLaren Applied 34

McLaren Applied has continued to set new standards in high performance motorsport solutions for over three decades, for the world's most prestigious racing series. Its team of experts are dedicated to delivering quantifiable performance advantage for teams and drivers.

Metalitest Ltd 50

Metalitest: Your complete testing solutions provider. From sample preparation and materials testing to inspection, analysis and materials characterisation, we supply equipment to assist you. We offer application specific consultation to develop optimal solutions, which exceed expectations. Additionally our service and calibration engineers support all brands and types of materials testing machines across the UK and Ireland.

Micro-Epsilon 68

Micro-Epsilon is renowned globally for being at the forefront of measurement technology. For more than 50 years we have offered reliable, high performance, unique solutions for high precision measurement and inspection. Our product range covers sensors for the measurement of distance and displacement, sensors for IR temperature measurement and colour detection, as well as turnkey systems for dimensional measurement and defect detection.

Moog 63

Moog delivers test professionals increased flexibility, reliability and precision-proven products and solutions worldwide, enabling you to bring your ideas to the next level of excellence. Talk to Moog about reliable and value-added automotive, aerospace and structural testing.

**Müller BBM & VIBES Technology**

64

Müller-BBM VibroAkustik Systeme is one of the global market leaders for integrated solutions for the acquisition, analysis and management of physical data in the fields of acoustics, vibration and strength. Our PAK family software is used across the industries, especially in the automotive and aviation industries and in mechanical engineering.

Olsen Actuators

46

Olsen Actuators supply clean, efficient and high-performance electric actuators and test equipment. Replace leaky, messy and noisy hydraulics or pneumatics and achieve highly accurate, repeatable (1 micron) and dynamic motion control (50Hz dynamic/100Hz static) through Olsen's carefully selected range. Pneumatic and hydraulic retro-fit friendly with easy configuration for static and dynamic endurance testing.

Optomet GmbH

67

Optomet develops and manufactures digital laser Doppler vibrometers - high-precision instruments for non-contact vibration measurements of individual points or entire surfaces. Whether measuring on highly or poorly reflective materials, microstructures to entire buildings – Optomet's modular systems are the ideal solution for almost any vibration measurement application.

PCB Piezotronics

28

PCB Piezotronics manufactures vibration, pressure, force and strain, shock and acoustic sensors used by design engineers and predictive maintenance professionals worldwide for test, measurement, monitoring, and control requirements. Our sensors support testing in aerospace and defense, automotive, transportation, civil engineering, and general R&D industries. PCB Piezotronics is a wholly-owned subsidiary of Amphenol Corporation.

Peli Products (UK) Ltd

13

Peli Products (UK) Ltd offer the Peli™ brand of watertight, crushproof equipment protection cases. A panel frame mounting system is available to install interface electronic panels within the case. Peli Products (UK) Ltd offer engineered foam solutions, these bespoke foam inserts optimise space and are ideal for sensitive, fragile equipment such as electronics, instrumentation and tool control.

Photron Europe Ltd

20

With over 40 years' experience in the design and manufacture of high-speed imaging cameras for research and industry, Photron has become known for its product performance, reliability and ease of use, backed up by excellent support in Europe and overseas. Visit to discuss systems including the FASTCAM NOVA S delivering mega-pixel resolution, high frame rates, high-light sensitivity and sub-microsecond exposure.

Plastometrex

42

Plastometrex is a Cambridge-based science and technology company. It develops novel systems designed to make mechanical testing simpler, quicker, and more insightful, with its benchtop Plastometer able to measure stress-strain curves in under 5 minutes. Plastometrex's systems employ indentation-based testing methods, with methodologies that have been developed over a 15-year period of research by former University of Cambridge scientists.

Polytec Ltd

36

Manufacturing non-contact measurement systems for over 50 years, our equipment measures Vibration, Acceleration, Displacement, Speed, Length, and Surface features such as flatness, roughness, and step heights. Our equipment range allows for analysis of different size, shape, and material from micron to macro. Laser vibrometers, laser velocimeters, and surface metrology.

Prosig Ltd

12

Discover how Prosig can help you measure and analyze sound and vibration with high-precision tools, support, consultancy, rental, and training services. Plus, visit our booth to explore DJB's innovative range of cutting-edge IEPE and charge accelerometers, cables, instrumentation, and accessories, including the world's smallest IEPE accelerometer at just 0.19grams. For over 50 years, our engineers have assisted professionals worldwide.

RDP Electronics Ltd

35

RDP is a UK company manufacturing and marketing transducers & instrumentation. For displacement, we make LVDT transducers together with other technologies covering ranges 1mm to 7.6m and environments beyond 500°C & 20,000psi. For load, pressure and torque measurements we offer strain-gauge devices. Our instrumentation offers display, analogue and digital outputs. General purpose, harsh environment and custom designs are all possible from RDP.

Reliability Maintenance Solutions Ltd

58

RMS provides Asset Reliability and Condition Monitoring solutions in the UK, Ireland, and beyond. Specialising in vibration analysis, motion amplification, ultrasound, thermography, oil analysis, balancing, alignment, and motor analysis, we partner with leading OEMs to highlight innovative technologies. As a BINDT and Mobius Institute accredited training organization in the UK and Ireland, RMS offers independent training courses and ISO-certified examinations.

Relyence UK Ltd

51

A fully integrated suite of quality and reliability analysis tools built on the Relyence Platform – a powerful framework that takes advantage of today's web based technology. Relyence provides key insights into product reliability and quality performance, enabling you to achieve and exceed your continuous improvement goals whilst meeting your compliance requirements. Relyence FMEA, FRACAS, FTA, PREDICTION, RBD, MAINTAINABILITY, WEIBULL, ALT.

Rohde & Schwarz UK Ltd

39

Rohde & Schwarz develops, produces and markets a wide range of electronic capital goods for industry, infrastructure operators and government customers. The independent group is among the technology and market leaders in all of its business fields, including wireless communications and RF test and measurement, broadcast and media, air traffic control and military radiocommunications, cybersecurity and network technology.

rose plastic UK Ltd

40

rose plastic, protective packaging pioneers. rose plastic has a comprehensive portfolio of plastic packaging tubes, boxes, and cases. Our packaging is ideal for the protection of your kits, equipment, and individual items. Visit our stand to discuss your requirements today. Are looking to be environmentally friendly? We are now able to offer many of our protective packaging products made from 100% recycled plastic.

**Servotest Testing Systems Ltd****6**

Servotest is a UK-based supplier of specialist servohydraulic mechanical simulation and test systems. Using low-friction hydrostatic bearing actuators, optimized for dynamic performance with high side-load tolerance and long service life, Servotest delivers innovative, cost-effective systems tailored to customer's needs. Pulsar controls combine robust distributed architecture with fibre-optic digital communication. EZFlow test-sequencing and customised displays support expert or novice users alike.

Siemens**19**

Siemens Simcenter SCADAS hardware and Testlab software enhances the testing processes, boosts productivity and product innovation. Our highly integrated solutions combine multi-physics data acquisition hardware with a complete suite of data management, analytics, and modelling software, covering a wide range of test needs. Taking physical testing and simulation model correlation to a whole new level. Come and have chat.

Spectral Dynamics (UK) Ltd**54**

Spectral Dynamics, founded in 1961, is a leading worldwide supplier of systems and software for vibration testing, structural dynamics, and acoustic analysis. Spectral Dynamics' products are used for design verification, product testing and design improvement by manufacturers of all types of electronic and mechanical products.

Star Hydraulics Ltd**33**

Star Hydraulics Ltd, established in 1983, based in the U.K. design and manufacture high quality Electro-Hydraulic Servo-Valves utilising sapphire technology to eliminate ball glitch and modernised components to reduce contamination failures. In addition to the supply of new valves, we have a world class servo valve service & repair facility servicing all makes and models of traditional servo valves.

StrainSense Ltd**29&30**

For 20+ years, StrainSense has been a trusted and reliable supplier of specialist sensors, instrumentation and data acquisition products. We supply quality sensors for vibration, acceleration, shock, strain, pressure, position, force, instrumentation, tilt/inclination and torque for static and dynamic measurements. We supply the complete measurement chain by adding of cable assemblies, connectors, signal conditioners and integrate with displays as required.

Stress-Space Ltd**70**

We apply the latest R&D to deliver trustworthy residual stress data for model validation, quality control and troubleshooting (manufacture and failures). We are the UK's leading provider of Contour method measurements and have developed a vision-guided robotic X-ray measurement system that uses best-in-class equipment (X-Raybot) from France with our own proprietary software. We will showcase the X-Raybot live at the exhibition.

Techni Measure Ltd**25**

Techni Measure supply an extensive range of sensors, transducers, instrumentation and calibration systems for the measurement of strain, vibration, acceleration/g force, displacement, load, force, torque, pressure, temperature and attitude/orientation. We will be showcasing a wide range of products at Silverstone. Our new sister company Quad I can offer sensor installation and measurement services, or integrate sensors into a measurement system.

Thermal Vision Research**15**

What makes us unique is that many of our FLIR Science cameras are not widely available in the UK. Combining this with our tailored software packages and the expert technical support our team provides is what we do best! We are delighted when our clients challenge us to develop and apply thermographic solutions for every application you can think of.

Torquemeters Ltd**8**

Pioneers in the design, manufacture & support of torque measurement systems for high-speed & high-power rotating applications, Torquemeters delivers specialist torque meter, coupling, flywheel, spindle, high-performance driveline & turnkey test rig solutions. Supporting the development of next generation e-motor/e-propulsion systems, Torquemeters is a key partner to major aero-engine, automotive, industrial machinery, and industrial gas turbine manufacturers with over 2,500 systems installed globally.

VBOX Automotive**49**

VBOX Automotive design and manufacture GNSS, Inertial Navigation and Indoor Positioning systems that measure, record, display, analyse and simulate data from moving vehicles. VBOX Systems are used by vehicle and tyre manufacturers around the world for testing and validating a vehicle's performance, handling and safety systems.

Vector GB Ltd**61&62**

For more than 30 years, Vector has been your capable partner in the development of automotive electronics. Driven by our passion for technology, Vector develops tools, software, hardware and solutions for automotive and related industries around the world. Solutions from Vector help simplify the development of embedded systems in areas such as e-mobility, safety and security, ADAS and autonomous driving.

Vishay Measurements Group UK Ltd**10**

Micro-Measurements®, A Vishay Precision Group, Inc. (VPG) brand, is dedicated to the development, manufacture, and marketing of resistive-foil sensors for high precision strain measurement. Micro-Measurements® offers a full complement of Strain Gauges, Bonding Service, PhotoStress® equipment and coatings, Data Acquisition systems and supplies necessary to obtain accurate, reliable stress data.

Vision Research**69**

Vision Research is dedicated to the development of Phantom high-speed cameras which lead the industry in frame rate, resolution, and image quality. The combination of revolutionary sensor technology and engineers with a deep understanding of the research and development needs has resulted in the creation of a broad range of high-speed cameras suitable for nearly all applications.

Yokogawa UK Ltd**11**

Yokogawa are the market leaders in electrical power measurement. Backed by the World's leading ISO17025 Power Calibration Laboratory, we deliver Precision to design engineers on their journey to sustainable technology. At EIS we will showcase Power as well as Data Acquisition and Deep Memory Oscilloscopes designed and built by Engineers for Engineers.



ZwickRoell

26&27

ZwickRoell is a worldwide leading supplier of static materials testing machines. In the area of dynamic testing, we have been successfully providing solutions for fatigue testing systems for decades. We also offer innovative BUP sheet metal testing machines, hardness testing machines and instruments, extrusion plastometers for melt index determination, and products for impact testing.