

Media release

Kistler presents new measurement technologies at the Automotive Testing Expo 2017

Measurement equipment for demanding vehicle testing applications

Winterthur, 2 May 2017 – In keeping with the motto “the efficiency experience”, Kistler will present innovative new products from its measurement technology range for vehicle testing and development at this year’s Automotive Testing Expo (ATE) in Stuttgart, Germany from 20 to 22 June 2017 at booth 1524. Visitors can experience the new KiBox® Cockpit V3.0, which incorporates 16-channel option for mobile engine indication. Already common practice in vehicle safety, efficiency-increasing DTI (Digital Transducer Interface) technology now also progresses into vehicle dynamics and durability. In addition to the new in-dummy crash recorder with start-record function, Kistler experts will explain the benefits of DTI technology.

Kistler is a global market leader in the field of dynamic measurement technology; its systems are used in measurement, testing, research and development laboratories all over the world on a daily basis. “For more than 50 years Kistler has been dedicated to the development and production of measurement equipment for the automotive industry. Our products have often played a key role in the development of combustion engines, have contributed to increased vehicle safety by precisely capturing measurement data and help simplify test set-up on test benches,” says Stefan Zuckschwert, Kistler Sales Manager for Germany, Austria and Switzerland. The ATE plays a very important role in this. “This show gives us the opportunity to meet up with the automotive and suppliers industry every year. It facilitates discussions with our partners and customers about industry trends and developments, and is a great inspiration,” Zuckschwert continues.

Faster and more efficient testing with Kistler DTI technology

Kistler streamlines vehicle dynamics and durability tests. Kistler is the first on the market to provide holistic measurement solutions using forward-thinking DTI technology, and therefore guarantees an efficient and quick test set-up. Only one cable is required for the configuration of sensors, measurement data transfer, synchronization, and power supply. Automated sensor recognition using TEDS (Transducer Electronic Data Sheet) makes the configuration process even easier. “For example, in-vehicle test set-up is made even simpler and more user-friendly by employing the new KiRoad Wireless P1 unit’s WLAN data transfer, in combination with DTI technology,” Zuckschwert explains.

New flexibility for mobile engine indication with the KiBox® Cockpit V3.0

Kistler’s compact KiBox® adds to the engine indication product range for the in-vehicle and test bed environments. The KiBox® reliably records and processes data for critical combustion related parameters, supporting detailed thermodynamic analyses of engine performance. This data can easily be integrated into the engine control unit measurement environment. The new KiBox® Cockpit V3.0 is extendable to 16 channels by cascading two units and is thus ideally suited to test bench conditions that require a higher channel

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count. In addition, the system now offers users the possibility to apply their own formulas and calculations, which can be executed online and in real time during measurements.

Crash recorder with start-record function

For crash tests, current trends move towards the integration of data acquisition systems into the crash dummy itself, aiming to make efficient use of the on-board systems for the sensor technology built into the vehicle. Kistler's new, compact crash recorder family DTI375.XX has a non-volatile flash data memory and a start-record function that guarantees compatibility with existing Kistler on-board systems. The measurement data is digitized in the sensor itself, stored in the crash recorder and is then transferable for subsequent crash analyses. Type DTI375.TH has an exceptionally high number of measurement channels - 288 in total - and its mechanical design is specifically geared towards the spatial dimensions of THOR dummies.

Kistler innovation up close

Visit us at Booth 1524 at the Automotive Testing Expo in Stuttgart, Germany from 20 to 22 June 2017 and experience the future of testing and measurement technology first-hand.



Image caption 1: Optimized use of the mobile engine indication system KiBox® on the test bench with 16-channel option



Image caption 2: From analog to digital measurement data – the network only requires one cable

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Image caption 3: Crash recorder with start-record function

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About the Kistler Group

Kistler is the market leader in dynamic pressure, force, torque, and acceleration measurement. Cutting-edge technologies provide the basis for Kistler's modular systems and services.

Customers in industry, research, and development benefit from Kistler's experience as a partner, enabling them to optimize their products and processes so as to secure sustainable competitive edge. Kistler plays a key role in the evolution of automobile production and industrial automation. Drawing on its vast application expertise – and always with an absolute commitment to quality – Kistler drives innovations ahead in areas such as lightweight construction, vehicle safety, reduction of gas emission, and Industry 4.0.

The Kistler Group is an independent, owner-managed Swiss corporation. More than 1 600 employees at 58 facilities worldwide are dedicated to the development of new measurement solutions, backed by individual application-specific support at the local level. Ever since Kistler was founded in 1959, the company has grown hand-in-hand with its customers. In 2016, it posted revenue of USD 364 million, about 10% of which is reinvested in innovation and research – with the aim of delivering better results for every customer.

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