

Media Release

Make Testing Faster and More Efficient with DTI Technology from Kistler

Kistler makes vehicle dynamics and durability testing faster and simpler. As the leading provider on the market, Kistler delivers integrated measuring solutions featuring its groundbreaking Digital Transducer Interface (DTI) technology.

Reliable tests are the essential basis for optimum vehicle development and engineering. The objective is to capture exact measurements of a vast number of physical variables. That's why many hours are often needed for each test setup. So, is there a way to reduce the enormous time and expense needed to obtain precise measurements from vehicle dynamics, tire and durability tests? Many customers ask this question – and Kistler, the expert in dynamic measurement technology, has come up with the answer.

One Cable for Everything

When you opt for Kistler's DTI technology, you can be sure that your test setup will be fast and efficient. Only one single cable is needed to configure the sensors, transmit and synchronize the measurement data, and supply power. TEDS-assisted automatic sensor detection makes configuration even simpler. Installed position, calibration values and relevant physical parameters are detected automatically by the KiCenter (Kistler's measurement software), where they can be configured. The results: guaranteed maximum process reliability – and efficient use of your time.

A Complete End-to-End Solution – from Sensor to Software

DTI technology makes use of an end-to-end bus system for the entire application. Signals are digitized as required, and converted into a DTI signal. This takes place either directly in the Kistler DTI sensors, or via suitable Kistler DTI converters if sensors are already present. The sensor data is fed into the central Kistler DTI logger – with no risk of interference – and is then transmitted via Ethernet to the computer for recording.

DTI Technology for Braking Distance Measurements

For brake path measurement with straightforward ABS braking to DIN 70028, Kistler offers you a perfected, holistic measurement solution based on our DTI technology. Its components include Kistler sensors and triggers, the DTI logger and the KiCenter. Test setup couldn't be simpler thanks to the "One Cable for Everything" concept. KiCenter enables end-to-end configuration of all connected sensors, guiding you through the entire test with three sequential measurement data displays – before, during and after the measurement task. The benefits: users can focus fully on their work, and valuable time is gained on the test track.

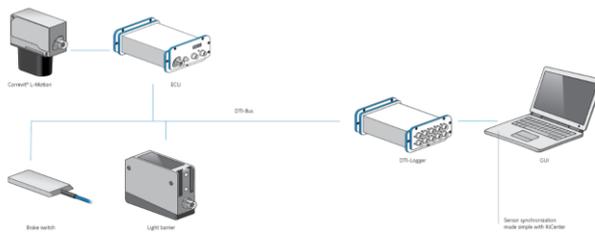
A Proven Track Record in Vehicle Safety Testing

Several years have already passed since Kistler successfully launched its DTI technology for vehicle safety testing. Over 40,000 DTI channels are currently in use for crash tests. Based on the know-how gained from this experience, Kistler has consistently developed its proprietary DTI technology at its Competence Center in Wetzlar, matching it to the demanding requirements for vehicle dynamics and durability tests. Kistler is the first and only provider to deploy this advanced technology in this segment – to boost efficiency and enhance process reliability.

For more information on this topic please visit <https://www.kistler.com/de/en/>



Caption 1: From Analog to Digital – with One Cable for All Connections



Caption 2: DTI Sensor Technology enables straight-line braking for maximum efficiency

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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.