

## Press release

### Creating value – from sensor to software

Everything from one single source: Kistler now offers the complete measuring chain for vehicle development

Winterthur, March 2019

**Software development specialist AMS joined the Kistler Group at the end of 2018 – adding even greater depth to Kistler's expertise in measurement technology, with a particular focus on measurement data management and analysis. The potential of the extended measuring chain will be fully revealed for the first time at two trade fairs in Germany: the Safety Week (14 to 16 May in Würzburg), and the Automotive Testing Expo (21 to 23 May in Stuttgart).**

Automobile development is moving ahead at breathtaking speed. Progress with electrification of the powertrain is ongoing, and assistance systems now deliver added driving comfort and safety – paving the way for autonomous mobility. In response to these advances, the pace of change in active and passive vehicle safety is also accelerating: but as vehicles become more complex, manufacturers are confronted with new challenges.

#### Keeping track of vast quantities of measurement data

In recent years, Kistler has increasingly positioned itself as a provider of integrated solutions for vehicle and engine development. Now, by joining forces with AMS, the company is tapping new potential in the second section of the measuring chain. Roderick Verschut, Head of Sales in Kistler's Automobile Research & Test (ART) Division, explains: "Our sensors and systems can measure in the engine compartment, on the steering wheel, on the vehicle's wheels and on the crash wall, to name only a few examples. And now, we even have our own THOR dummy for crash tests. Thanks to software by AMS, our customers can benefit from efficient visualization of all this data – and what's more, they can manage, evaluate and analyze the data in depth."

AMS offers a multifaceted software portfolio comprising MaDaM, jBEAM and jBEAM Cluster – products that offer wide-ranging opportunities to generate maximum added value from data acquired during vehicle and engine tests. [MaDaM](#) stores and organizes the acquired measurement data, and processes it for evaluation; [jBEAM](#) handles visualization, curve/profile analysis and targeted evaluations. [jBEAM Cluster](#) offers even more advanced options: this application allows parallel analysis of numerous different test series, providing the basis for data mining – for example,

to reveal hidden patterns and dependencies with the help of algorithms specifically tailored to measurement data.

## **Complete measurement solutions for vehicle development – from one single source**

At the Automotive Testing Expo in Stuttgart from 21 to 23 May, customers and interested visitors will have the chance to discover the full breadth and depth of Kistler's expanded software expertise. Stand 1126 will showcase the entire portfolio of software solutions, ranging from the local desktop solution to global measurement data management (MaDaM), and from visualization and evaluation (jBEAM) to Big Test Data handling with data mining and jBEAM Cluster.

Yet more innovations in engine development will be on display at stand 1530. Thanks to [highly sophisticated optical probes](#), Kistler can now provide comprehensive visualization and analysis of processes in the combustion chamber – the ideal complement to combustion analysis based on cylinder pressure [with Kistler's KiBox](#). KiBox also offers an additional new benefit: the KID (Knock Intensity Detection) feature allows calibration of latest-generation engine control units for knocking behavior. Additional solutions in the NVH segment (Noise, Vibration and Harshness) will be on show at the fair alongside innovations in vehicle safety – with [Kistler's new THOR dummy](#) as the highlight.

## **Opening up synergies for vehicle safety**

At the Safety Week in Würzburg (from 14 to 16 May, one week before the Stuttgart event), Kistler will offer a foretaste of what a complete measuring chain from one single source can look like – including comprehensive software evaluation. A development project launched after AMS merged with Kistler aims to produce specialized software for crash testing.

Visit **Kistler** at the **Safety Week** in Würzburg and the **Automotive Testing Expo** in Stuttgart to learn more about our comprehensive solutions for **vehicle development**, and the new possibilities we offer for **software-based measurement data analysis**. We're looking forward to welcoming you!

Image material (please name the Kistler Group as picture source)



[Big Test Data](#): wide-ranging tests and measurements generate data on a vast scale – and thanks to software solutions from *AMS – A Kistler Group Company*, this data can be analyzed with the focus on added value



KiBox, Kistler's comprehensive measurement system for engine indication, now has an advanced calibration function for knock intensity detection



The ideal complement to engine development with KiBox: [optical combustion analysis](#) by Kistler, with individually selectable fields of vision and aperture angles



Kistler offers high-precision sensor technology and integrated data acquisition solutions for dummies of every type – and now, we have added our own THOR dummy with flexible instrumentation

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#### About the Kistler Group

Kistler is the global market leader for dynamic pressure, force, torque and acceleration measurement technology. Cutting-edge technologies provide the basis for Kistler's modular solutions. Customers in industry and scientific research benefit from Kistler's experience as a development partner, enabling them to optimize their products and processes so as to secure sustainable competitive edge. Unique sensor technology from this owner-managed Swiss corporation helps to shape future innovations not only in automotive development and industrial automation but also in many newly emerging sectors. Drawing on our extensive application expertise, and always with an absolute commitment to quality, Kistler plays a key part in the ongoing development of the latest megatrends. The focus is on issues such as electrified drive technology, autonomous driving, emission reduction and Industry 4.0. Some 2 200 employees at more than 60 facilities across the globe are dedicated to the development of new solutions, and they offer application-specific services at the local level. Ever since it was founded in 1959, the Kistler Group has grown hand-in-hand with its customers and in 2018, it posted sales of CHF 475 million. About 8% of this figure is reinvested in research and technology – with the aim of delivering better results for every customer.