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Press release

Measurement data management – the latest technology

Kistler Group launches a new version of its measurement data management software MaDaM

Winterthur, April 2025

Kistler has updated its MaDaM measurement data management software to optimally help its customers to accelerate development, save time, and cut costs, including in the field of measurement data management. The update features improved organization, searchability, and harmonization of data to simplify the comparison of relevant measurements, for example. Reporting, data mining, and metadata handling were also optimized.

Research and development in challenging sectors like the automotive, medtech, and aerospace industries is constantly evolving: more sensors, multiple test stands, more complex measurement setups, and different technologies make it difficult to maintain an overview and turn managing measurement data into a key competence. Kistler has therefore updated its MaDaM measurement data software to enable its customers to develop products faster and more cost efficiently, and to provide R&D departments with a useful tool for measuring tasks in the 21st century.

Efficiently manage measurement data from complex environments

MaDaM makes it possible to display measurements in context, organize them hierarchically and chronologically, and merge and cluster relevant measurement data. Special features include the highest possible data quality, simple searchability, and fast access – including compact previews of measurements linked with the corresponding measuring equipment – plus high-quality reports. MaDaM was developed in close collaboration with international OEMs and is particularly suitable for use in complex development environments – for example, when test stands with different DAQ technologies are used for part or component testing and there are also measurements of the overall system, like those for a vehicle on different test tracks.

The user can practically work as if everything were in a single measurement file, even with different sources. This is achieved through intelligent networking of heterogeneous metadata – in the case of related data from test stand and test drives, this is addressed in terms of display with the new “time travel” feature.

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Accelerated root cause analysis with “time travel”

If measurement experts and engineers identify problems during development, they can now find and compare relevant measurements more easily. The “time travel” feature organizes measurements of components from previous project phases hierarchically according to their use and makes it possible to switch between measurements, including metadata, when the preview is open. It simplifies root cause analysis and makes problem solving more efficient. In the MaDaM measurement data management software, measurements are displayed in the context of the system being developed, which means causes can be found more quickly in existing measurements – unnecessary repeat measurement tasks.

Save even more time with data analysis and data mining

During data mining, measurement data from related measurements is clustered via metadata and placed in a technical context. Based on these clusters, MaDaM makes suggestions for the automatic completion and harmonization of metadata – for measurements with different DAQs, for example – thus allowing for targeted processing of a variety of related measurements. Selected measurements can be analyzed efficiently with the jBEAM data analysis software, which is included in MaDaM.

For measurement projects of various sizes, Kistler offers a suitable configuration of its measurement data management software that makes installation and initial configuration even easier for smaller projects. Alongside complex projects, this means that it also serves as a reliable single source of measurement data in smaller measurement setups.

The Kistler Group website (www.kistler.com/madam) offers more detailed information, tutorials for special applications, and the opportunity to request a test version.

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

The new MaDaM measurement data management software from Kistler helps R&D departments save time and reduce costs thanks to its enhanced features and functionalities.

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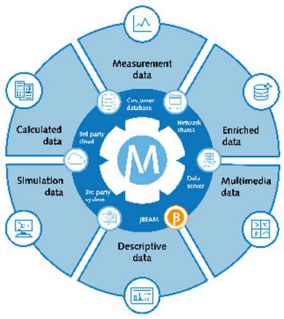
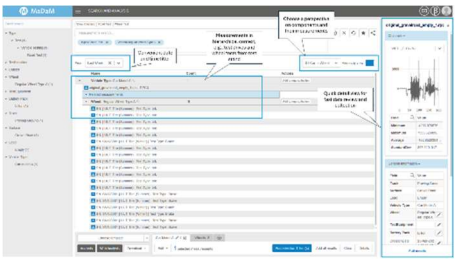


MaDaM, the updated measurement data management software from Kistler, merges different data sources, completes and harmonizes metadata, and enables efficient data mining.



The measurement data management software MaDaM from Kistler lets you conveniently search and clearly organize datasets and place them in the desired context – culminating in data analysis with jBEAM.

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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 Swiss company 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 2,000 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 posted sales of CHF 448 million in 2024. About 9 percent of this figure is reinvested in research and technology – with the aim of delivering innovative solutions for its customers.