

KISTLER

measure. analyze. innovate.



Evaluate measurement data with jBEAM

The interactive software solution for analysis, visualization and reporting of test data for the automotive sector



One single software solution to process and analyze your test data

Road and engine tests or crash analyses: no matter which type of test data is your daily fare, you'll have more time left for jobs that boost added value when you work with jBEAM. That's because the universal analytics tool from Kistler simplifies and automates analytics tasks and report generation.

Kistler: your ideal partner for measurement data analytics

Kistler combines the best of both worlds – hardware as well as software. As a manufacturer of sensor technology and evaluation systems, we have decades of experience with all components of the measuring chain. So we know the market, develop innovations and offer an extensive portfolio of products. Day after day, our application engineers find solutions for the most challenging measuring tasks in a vast and diverse range of applications. This experience provides input for our software development. The result: a robust and efficient analytics tool that keeps on proving its strengths in critical application areas, time after time. This modular system features numerous options for adaptation, so maximum flexibility is guaranteed.

Kistler knows the requirements that the automotive industry must meet

We provide test systems for many diverse application areas in the automotive industry: for example, our technology is used in

internal combustion engine (ICE) development for cylinder pressure indication and in the electric vehicle (EV) sector for the analysis of cell chemistry data as well as large numbers of temperature measurement points to detect anomalies in the performance of individual cells or battery cooling. But we don't just deliver the right software for the job: in many instances, we also collaborate directly with our customers as the outsourcing partner for measurement data analysis and template development. The result: analytics projects are digitalized and automated rapidly and reliably.

Your benefits

- Kistler partners with many OEMs and suppliers who benefit from our decades of experience in analytics
- Robust, efficient software with maximum flexibility
- Options for outsourcing non-value-adding activities and templating to simplify your work
- Save costs thanks to a simplified tool landscape and automation
- No-code approach – so your analysts are relieved of programming work

Evaluate all your measurement data with just one tool

Measuring tasks are becoming more and more complex, and increasingly specialized tools are needed to import your test data (for example) or for specific analytics tasks. This often causes the program landscape to grow rapidly. Tools already used for specialized evaluations have frequently been extended by customizing them at high cost. With jBEAM, we offer you a modular system that can take the place of many other tools:

- Upload over 140 file formats (e.g. ISO 13499 MME)
- Eliminate the need for format conversions
- Reduce maintenance outlay
- Users can focus on their tasks (instead of having to be programmers, quality managers, mathematicians or UI designers as well!)
- Automate measurement tasks with template-controlled reports – for automatic plausibility checks after the measuring run, fast release documents for a measurement, and many other applications

With Kistler as your contact partner, you can count on our experts in every specialism to support you with all your analytics tasks.



Keep track of the entire workflow

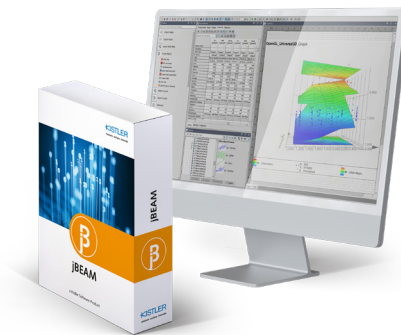
Concentrate on analyzing your test data

The hours your analysts spend learning how to use so many different tools leaves less time for the activity that actually creates value – the analysis of measurement data. We will help you save that time by providing one platform for all your analytics jobs so your analysts no longer have to waste time on those other tasks. For example: you'll quickly and easily be able to create templates for evaluating the temperature or capacity of battery cells across multiple charging and discharging cycles.

Generate evaluations without programming

You define your requirements – we deal with meeting them. We will train your analysts to create templates for reports themselves – without having to program one single line. Alternatively, take advantage of our template service so you can outsource these tasks. You'll relieve the pressure on your employees by having our experts generate mathematical functions according to your

requirements. We make it simple for you to use the software in many ways – from creating templates to automated report generation. For example: a template for evaluations based on WLTP (worldwide harmonized light vehicles test procedure) or PEMS (portable emissions measurement system) can show you immediately whether your test meets all the regulatory requirements.



jBEAM – the complete package to optimize evaluation of your test data

A selection of jBEAM's wide-ranging functions:

- **Battery tests**
Synchronization, visualization and analysis of battery data (cell temperature, chemistry or classic voltage as well as current values)
- **Crash analysis**
ISO 13499 MME import and export, crashwall matrix, NCAP analysis and Crash Assistant
- **Durability tests**
Damage accumulation, rainflow analysis, collective view, spike detection and correction
- **Engine/powertrain analyses**
Cylinder pressure indication, data and layout import from KiBox 1 and KiBox2 (Cockpit), analysis of individual cycles and statistics across multiple cycles
- **NEV analysis**
Efficiency evaluation (currents, voltage, performance, thermal management, mechanical forces) combined with hardware from Kistler (optional: temperature measurements on e-machines, force measurements on shafts, wheels and the complete powertrain)
- **Exhaust gas analysis**
PEMS and WLTP templates
- ... and many more!



Take the lead – right from the start

Biomechanics
Real measurement enables 3D motion analysis, sports performance diagnostics, rehabilitation and ergonomics



Safe braking thanks to efficient maintenance

Brake force measurement in the rail transport sector
Sensors and accessories for precise brake force testing



Flexible to create and easy to integrate

Weigh In Motion
Measuring equipment for a wide variety of traffic data collection, enforcement and toll collection applications



Measuring equipment for demanding T&M applications

Test & Measurement
Force and signal conditioning, monitor



Develop and operate gas turbines more efficiently

Gas turbine monitoring
Measuring combustion dynamics improves turbocharger performance



Analyzing and commanding sophisticated machining processes

Cutting force measurement
Precision measuring systems for machining



For more information, visit:
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