KISTLER

measure. analyze. innovate.

jBEAM Measurement data evaluation

Interactive software solution for analysis, visualization and reporting of measurement data from the aviation sector

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One software to process and analyze all your test data

In-flight tests, vibration analyses or climate tests: no matter what kind of test data you deal with every day, jBEAM from Kistler will simplify and automate your analysis tasks and report generation. Our universal analysis tool will help you free up more time for activities that actually generate added value.

Kistler is your ideal partner for measurement data analysis
Why? Because we combine the best of both worlds – hardware as well as software. As a manufacturer of sensor technology and evaluation systems, we have accumulated decades of experience with every element of the measuring chain – we know the market, we develop innovative products, and we offer a wide-ranging portfolio. Day after day, our application engineers find solutions for the most complex measurement tasks across a vast variety of applications. We use all this experience as input for our software development. The end product: a robust, efficient analysis tool that can prove its excellence in critical application areas – time after time. Our modular system offers plenty of options for adaptation – so you benefit from maximum flexibility

Kistler knows what the aviation industry needs
We provide test systems for many diverse application areas throughout the aerospace industry: examples include in-flight function tests for system development (covering equipment such as air conditioning systems, fuel and hydraulic systems or turbines) as well as ground tests (structural load testing and standard vibration tests), analysis of individual cycles and also statistics across large series of measurements.

As well as supplying the right software for the job, Kistler collaborates directly with customers as an outsourcing partner in many instances. The result: fast, reliable digitalization and automation of analysis projects.

Your benefits

- As a partner to numerous OEMs and suppliers, Kistler can draw on decades of experience in analytics
- Robust, efficient software delivers maximum flexibility
- Many original data formats can be loaded directly, with no need for conversion
- You cut your costs thanks to a simplified tool landscape and automation: we can also support you as your outsourcing partner
- No-Code approach, so your analysts are relieved of programming work

Evaluate all your measurement data with just one tool
Program landscapes often grow rapidly as measurement tasks become more complex and increasingly specialized tools are required – to import your test data, for example, or for specific analysis assignments. In many cases, customers are already using tools for specialized evaluations that were extended by costly customizing. Our jBEAM offers you a modular system that can take the place of many other tools

- You can load over 140 file formats (e.g. ISO 13499 MME)
- You don't need format conversions or data pre-processing
- Maintenance outlay is minimal – because one tool does everything
- Users can concentrate on their real tasks
  (instead of having to be programmers, quality managers, mathematicians or UI designers as well)
- Measurement tasks are automated with the help of template-controlled reports – for automatic plausibility checks after a measurement run or flight, fast release of documents for a measurements, and in many other cases

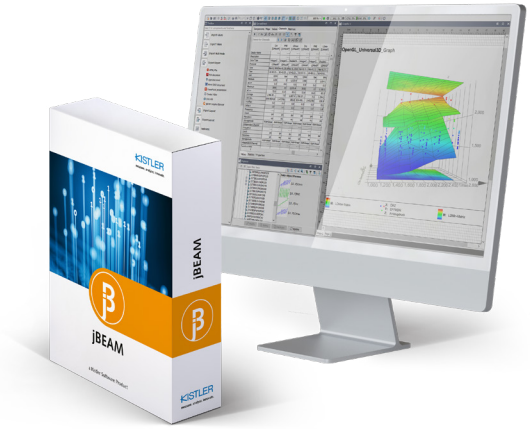
You can count on us as your partner for all your analysis tasks – our experts in all the relevant specialist fields are always standing by to help you.

Keep track of the entire workflow

Focus on evaluating your test data
The time your analysts spend on learning how to use so many tools doesn't ultimately count towards the work that actually adds value: the analysis of measurement data. We help you to save this time by providing one platform that handles all your analysis tasks – so your analysts no longer have to perform these time-consuming jobs. With our platform, for example, you'll quickly and easily create templates for temperature or capacity evaluations of battery cells across multiple charge and discharge cycles.

Generate evaluations without programming
Simply define your requirements, and we'll take care of implementing them. We will train your analysts so they can create their own templates for reports – without even having to program one single line! Alternatively, take advantage of our Template Service so you can outsource these tasks. You can relieve the pressure on your employees by letting our experts generate mathematical functions to meet your requirements. We make your work easier by creating templates – even including automated report generation – for applications such as:

- Evaluation and plausibility checking of Ground Vibration Tests (GVT)
- Checking criteria for approval tests, sensor calibration or structural tests



jBEAM – the complete package for optimal evaluation of your test data

A selection of jBEAM's extensive range of functions:

- **Battery tests**
  Temperature/capacity evaluation of battery cells (across multiple charge/discharge cycles)
- **Durability tests**
  Damage Accumulation, Rainflow Analysis, Collective View, Spike Detection and Correction
- **Unit mapping**
  Automatic conversion of channels into the desired units (e.g. in Hg, hPa, bar, ft, m, knots, nautical miles)
- **Joint analysis of different sources**
  Import, synchronize and analyze measurement files in over 100 different formats
- **Powertrain tests**
  Cylinder pressure indication, engine maps
- **Vibration analyses**
  FFT for ground and in-flight vibration tests

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Kistler Group
Eulachstrasse 22
8408 Winterthur
Switzerland
Tel. +41 52 224 11 11

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