

Business 4
 Visions of tomorrow made
 real today...

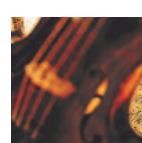
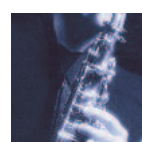
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 Every sound has a color,
 its character is your job...

Products 8
 Good Vibrations!

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 Perfection is the outcome of
 optimum communication...

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 Since 1962 we have been
 investing in sound...

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orrow made

The Company

Müller-BBM VibroAkustik Systeme GmbH, a market leader in the field of multichannel measurement engineering, is part of the international Müller-BBM group (comprising a 450-strong global workforce). Our corporate objective is the ongoing enhancement, manufacture and marketing of task-based solutions in the field of measurement engineering, solutions generated by the R & D activities of the Müller-BBM consultancy bureau.

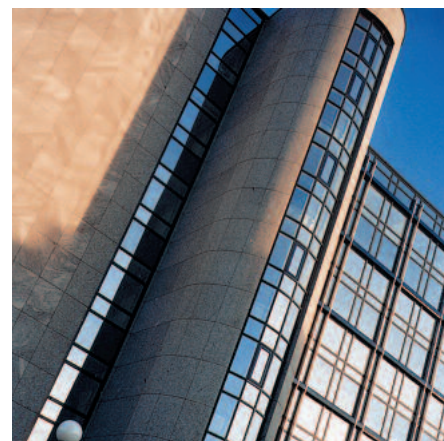
The Müller-BBM VibroAkustik team of 80 co-workers, involved in marketing, sales, product development, customization, technical support, training and documentation is busy providing high-performance tools for application in acoustic and vibration engineering. Our customer base includes automotive manufacturers and their suppliers, aeronautic and aerospace manufacturers, academic and research bodies, as well as companies in the consumer and household goods sectors.

The Team

The focus of each member of our team is on achieving customer satisfaction.

Every co-worker at Müller-BBM is a stake-holder in the company. But this is not the only reason for our success. We have created an open working environment, where independent initiative and close identification with the enterprise and its products, coupled with a flat management structure, provides the ideal springboard for new ideas and creativity.

The innovative mind-set and dynamism so characteristic of our company springs from an internal enterprise culture in which specialists with first-class credentials in the fields of physics, electrical and mechanical engineering and acoustics are provided with every opportunity for free development of their ability and imagination. This is what underpins the proven quality of our products. The outcome is high-level customer satisfaction.



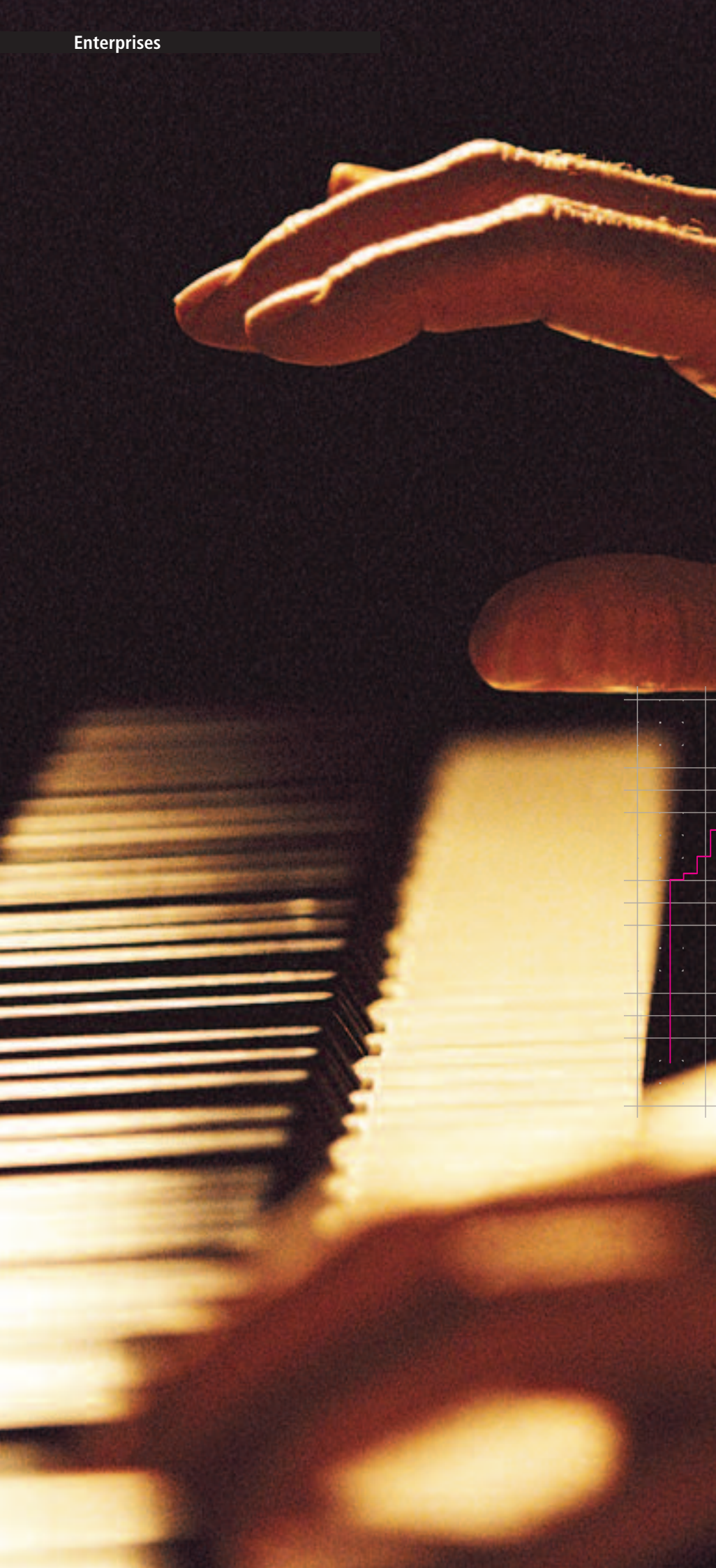
The Quality

We understand the term "quality" to be a process extending far beyond the development and manufacture of high-performance measurement systems. Long-term cooperation with our customers is the key factor.

New products only enter the marketplace once their practical relevance has been demonstrated by exact analysis of potential applications and the goals to be achieved. Customers know much better than we do which tools they need. We listen, we deliver.

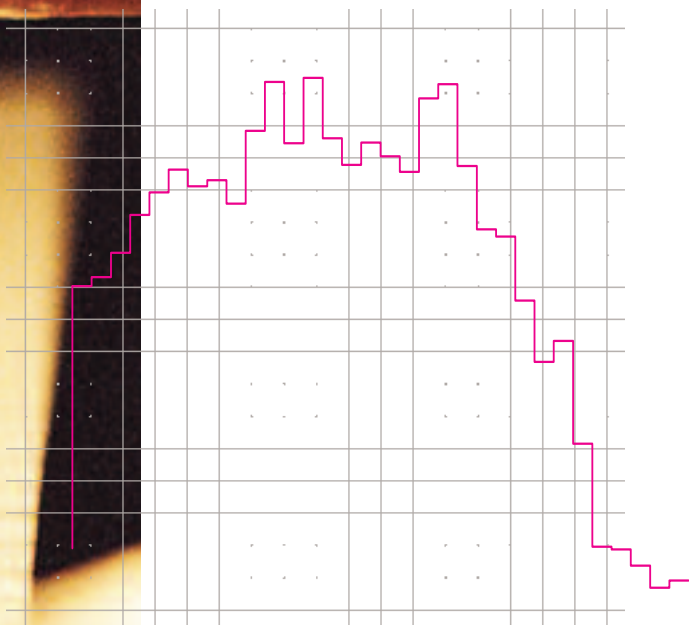
After delivery, we stay close to our customers. Our goal here is to maintain the value of the investment the customer has made in purchasing our product. Suggestions and ideas for improvement which we seek from users are dovetailed into product enhancement.

Müller-BBM VibroAkustik Systeme GmbH is certified to DIN EN ISO 9001.



**To invest in sound
is a sound investment.**

Every sound has
its character is y



s a color, your job...

Present in the world-wide marketplace for solving acoustic and vibration engineering tasks

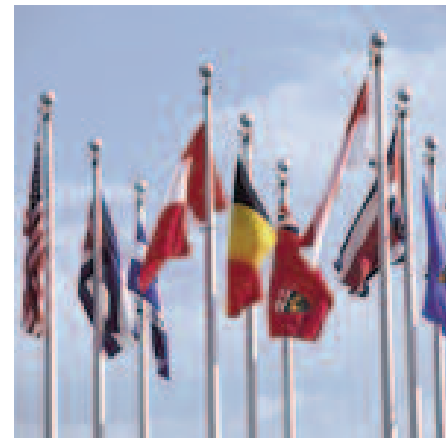
Marketplace globalization places an increasingly demanding measurement engineering challenge before our customers. Complex acoustic and vibration engineering tasks call for a high-performance tool to satisfy ever-increasing demands for appropriate measurement techniques, economic efficiencies, documentation and reproducibility of results.

The multichannel system solutions created by Müller-BBM make possible the capture and storage of all data types in a single measurement cycle. Database archival of raw data provides all teams involved in a project, including suppliers, the capability of conducting special acoustic and vibration engineering analyses.

This is why Müller-BBM VibroAkustik maintains a global presence through its offices in Europe, Asia and the USA, and its distribution network in Japan and the rest of the world.

Sound Quality – what consumers are seeking

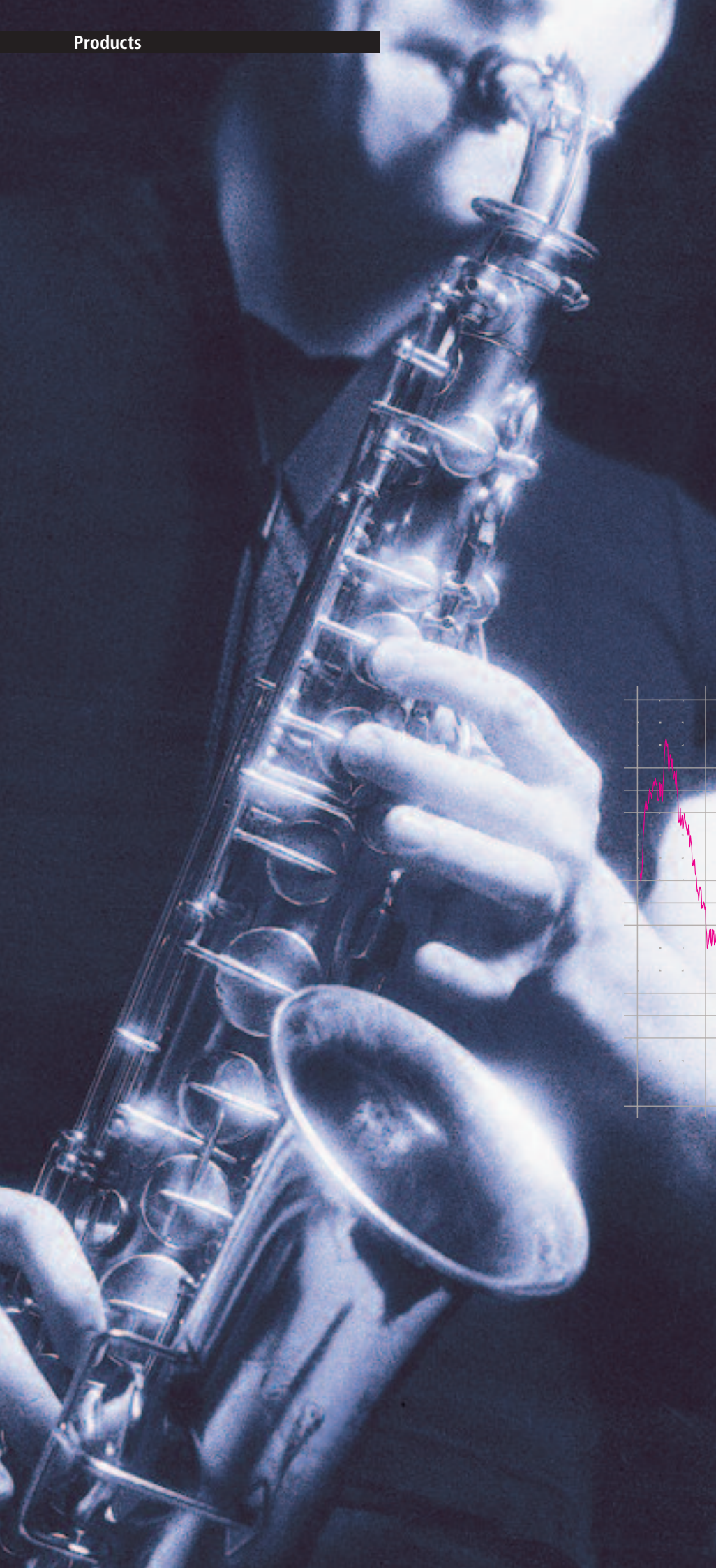
Previously, the main interest of acoustic engineers was concentrated on sound proofing and insulation of acoustic emission sources. Today's ever-increasing demands on product quality, coupled with changing consumer expectations and increasing environmental consciousness call for greater application of root-cause engineering and better management of sound transmission paths. Supported by Müller-BBM's armory of state-of-the-art measurement and analysis systems, the process of constructive change towards optimized acoustic and vibration engineering of products can now be started very early on in the product development cycle.



Sound engineering is sales promotion

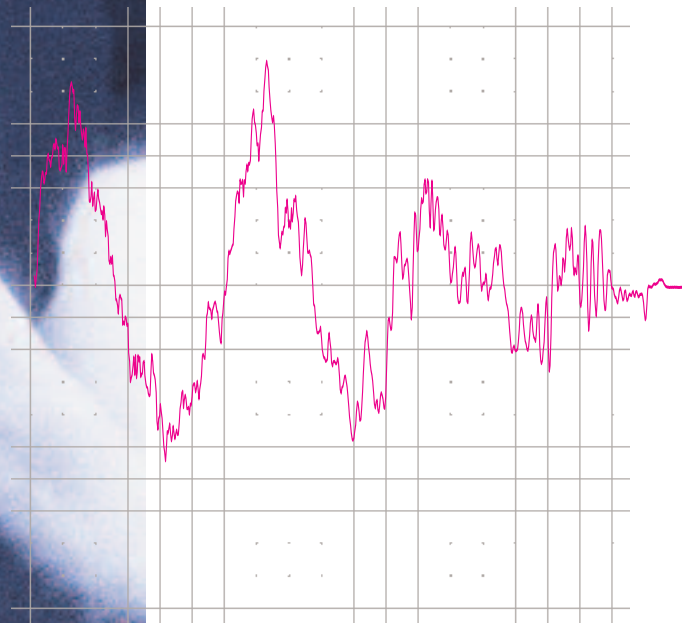
In the modern world, sound is engineered. Long gone are the days when engineering objectives were limited to reducing levels of loudness and what was generally regarded as noise. Vital to each and every manufactured product is unique and identifying sound it makes, a quantity often psychologically linked to product functionality. People who buy sports cars want them to sound very different than the family saloons sought by other consumers. The dish-washer is expected to sound different than the clothes washing machine. At the same time, the way noise is judged remains a matter of individual perception and preference. This brings to the fore the significance of psychoacoustics, a useful supplement to more traditional acoustic benchmarks. Psychoacoustics makes it possible to measure the perceptually-based characteristics parameters of measured sound signals, such as loudness, sharpness, fluctuation strength and roughness. Our multichannel measurement and analysis technology puts manufacturers in a position to comfortably complete both traditional psychoacoustic analysis, simulation and modification of complex acoustic and vibrational response within a single, unified application.

Give your product attitude!



**The sound of a saxophone.
Heaven or hell, depending on the
instrument and who's playing it!**

Good Vibration





ns!

We supply system solutions

Müller-BBM VibroAkustik develops and provides computer-based recording and analysis systems for sound and vibration capture. We also supply custom integration of software and hardware, incorporating our solutions into the customer's operational flow. Rounding out our capabilities are test-facility commissioning, technical consultation, and service and product training.

The solutions we develop are tailor-made for the task the customer is facing, regardless of whether we are interfacing with large companies, medium-sized businesses, government agencies or research bodies. The products and services we provide are solidly backed by Müller-BBM's engineering know-how and experience through its consulting activities in the fields of room and architectural acoustics, thermal building physics, vibration-proofing and control, soundproofing, machine acoustics, and environmental protection.

We supply complete, state-of-the-art systems. When developing software, we put our heads together with the customers to achieve maximum simplicity and user-friendliness. We test the hardware and integrate all components into a turnkey system solution, backed up by our efficiency-driven support team. When off-the-shelf hardware is not adequate to the task, we can develop and produce the hardware which optimally meets special requirements.

Monitoring vibrations: PAK, the acoustic measuring system for test stands

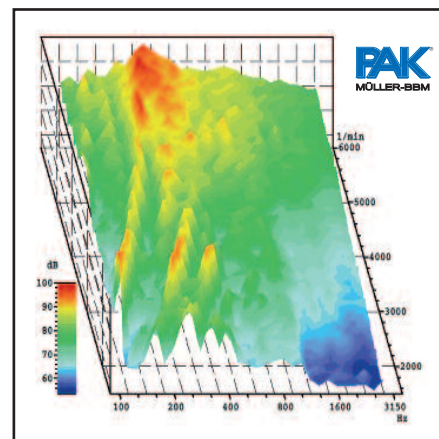
The foundation of many of our industrial installations is our main product, PAK, a modular acoustic measuring system for test stands. An universally applicable system of unparalleled flexibility, PAK can be extended to and fine-tuned for individual task requirements.

PAK has also grown out of close cooperation with users. Closely reflecting industrial best practices, PAK has created a great resonance among customers: PAK raises efficiency and productivity by shortening product development cycles, while minimizing cost.

Upwardly compatible since the eighties, PAK is continuously enhanced and updated, to remain strictly state-of-the-art. The system provides network transparency, allowing all measurement and result files to be accessed and processed by every PC in the network.

PAK – the all-round, "easy-to-play" instrument

PAK-users are provided with high-performance tools for multichannel measurements and analysis of sound and vibration via a range of input variables. From the basic configuration upwards, PAK provides a wide range of measure-



ment and analysis techniques, with a uniform, user-friendly graphical user interface across all modules, plus the option of saving explanatory text along with measurement data. The dual-channel output option for subjective listening tests adds the factor of customer perception to engineering solutions.

User-friendly functions for documentation and presentation of results are able to capture a wide range of information, even in challenging test stand environments. This information is easily customized to satisfy specific industrial requirements. The combination represents a unique advantage of the PAK system. Measurement and documentation process commands can be automated via tables, allowing routine measurements, standard analysis and documentation to be executed without compromise by all technical testing personnel.

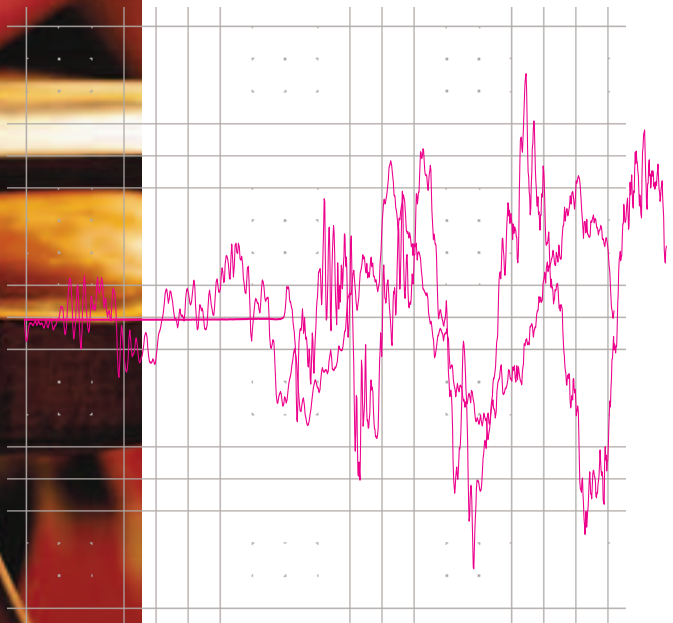
PAK is available for stationary and mobile applications, and in versions for measurements involving limitless channels. Customer-specific extensions can enable, for example, test stand control for automatic measurement range capture and measurement of characteristic parameters.

The system operates according to industry standards for operating system, interfaces and bus architecture, in particular the European Standard for physical measurement data, ASAM, upon which our entire product range is based.



**Our guiding principle:
Good communication is key in serv-
ing customers.
Our success has proved us right...**

Perfection is the
optimum comm



e outcome of nunication...

Customers potentially interested in our measurement and analysis systems are provided with an extensive range of services – prior to any purchase.

Pre-Sales

Ahead of any decision regarding the deployment of our products, all potential customers benefit from an intensive and comprehensive consultative process, in which customized application solutions are worked out between specialists from Müller-BBM VibroAkustik and potential users.

Supported by the know-how of the Müller-BBM consultancy bureau, we prefer to take the time for this consultative process prior to any purchase, putting customers in touch with experts, whose experience and competence provides effective project consultation, right down to the last detail.

Sales

Responsibility for actual sales is the domain of our sales team. The sales force handles customer inquiries and quotations in the domestic market, and also coordinates export orders through our subsidiaries and distributors.

Our sales specialists are highly experienced application experts, ready to advise on special application requirements which customers may have.

Support

The engineers in our technical support service stay close to customers after product purchase, with responsibility for testing the hardware, integrating complete systems, installing the hardware and getting it up-and-running. Fully familiar with each customized installation, our support engineers take responsibility for maintaining system service management.

The support team is also responsible for training users. Introductory training in system operation usually takes place on the customer's premises. Basic and advanced instruction courses are also offered at our training facility, fully equipped with state-of-the-art IT, including courses on special advanced measurement engineering topics.

Everyday customer backup support, provided via a telephone hotline, is yet another main task of the support team, a team consisting of highly-qualified engineers and physicists. Systematic cataloging of troubleshooting activities



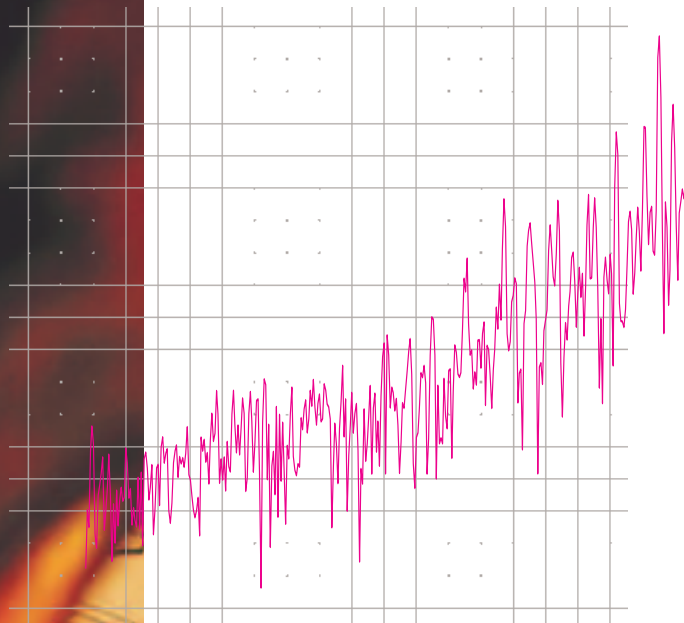
provides the team with leverage needed for fast support response.

More complex inquiries are forwarded to the so-called 2nd Level, with experts providing solutions by giving higher priority to the more urgent requests. Uninterrupted operation of our systems is ensured by the service we provide in this area.



Our story begins back in 1954 when Helmut A. Müller takes over the "Schalltechnische Laboratorium Prof. Dr. Cremer", later to be renamed after Helmut A. Müller in 1958.

Since 1962 we
investing in sou



have been
and...

1962

March 28, 1962 marks the beginning: the date on which Helmut A. Müller starts Müller-BBN GmbH as a "sound engineering consulting bureau" with five associate partners: Prof. Dr. Lothar Cremer, Dr. Manfred Heckl, Dr. Ludwig Schreiber and Bolt Beranek and Newman Inc. (BBN). In its startup year, the enterprise employs a workforce of 10 persons. The initial primary activities, room and architectural acoustics, are soon extended to include industrial noise control and noise prevention for civic planning and ship-building. With a continuously expanding customer base, the company soon becomes internationally known for its expertise in sound management.

1972

Ten years later, the company has grown to a 34-strong workforce. After Bolt Beranek and Newman Inc. decide to sell their share in the enterprise, the name becomes Müller-BBM.

1976

The workforce now numbers 54, and in the spring of this year, Müller-BBM GmbH moves into new business premises in Planegg near Munich, where it remains to this day. This year also sees the addition of new business areas: software and measurement systems (the responsibility for which is today assigned to Müller-BBM VibroAkustik Systeme GmbH), vibration and shock-proofing, and also machinery acoustics.

1978

The headquarters of the company is extended to include laboratories and

test stands, IT facilities, rooms for training and seminars, and also an extensive technical library.

1983

Clean air and thermal building physics business areas are developed.

1989

A new building extension to provide additional office space and accommodate new laboratories for air pollution work and new test stands are added.

1991

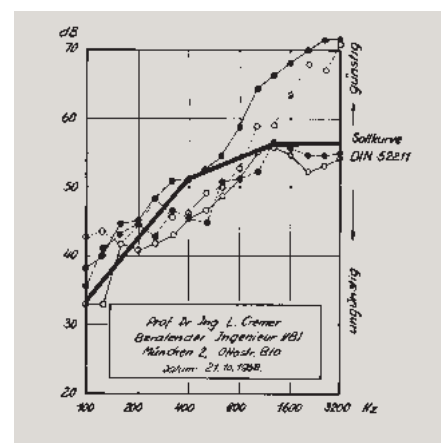
A new enterprise, BBM-Technik GmbH is started. The aim: the marketing and realization of products arising from results and innovations developed within the framework of the consultancy operation.

1992

The sectors noise reduction and psychoacoustics now play a role of ever-increasing importance. Vehicle acoustics is a field of much more than average proportion.

1997

At the outset of this year, Müller-BBM employs 155 people. Before the year is out, Müller-BBM VibroAkustik Systeme GmbH is started as a separate enterprise to meet the demands for expansion in the fields of software and measurement engineering technology. Simultaneously, this enterprise opens a subsidiary in Paris, Müller-BBM VibroAkustik Systeme SARL, entrusted with product sales and distribution in France.



1998

Further sales expansion in USA is spearheaded by founding an American subsidiary of Müller-BBM VibroAkustik Systeme GmbH: Müller-BBM VibroAkustik Systeme Inc. in Detroit, Michigan.

1999

Another building is constructed to accommodate the growth of Müller-BBM VibroAkustik Systeme GmbH and BBMTechnik GmbH, as well as to provide additional test fields, training rooms and an anechoic chamber.

Alongside the subsidiaries Müller-BBM GmbH, BBM-Technik GmbH and M + P raadgevende ingenieurs b.v., Müller-BBM VibroAkustik Systeme GmbH becomes part of the company group Müller-BBM Verwaltungs- und Beteiligungsgesellschaft mbH.

2002

Aiming to expand its European sales activities, Müller-BBM VibroAkustik Systeme GmbH forms a subsidiary in Turin, Italy.

2004/5

Müller-BBM VibroAkustik Systeme continues to intensify its international activities, founding a branch in China in 2004 and in South Korea in 2005.

2008

Müller-BBM Scandinavia AB starts operation. Deep consulting expertise in the automotive industry and other industrial sectors distinguish the company. At the same time they are distribution partner for PAK systems in Scandinavia.

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