



PAK acs

Controlled Acoustic Excitation in vehicle development.

Controlled acoustic excitation systems are required in a wide range of applications. These include window test benches for computing the acoustic damping of materials and components, and echoic chambers for simulating the exterior or ambient noise as well as all other noise affecting the interior (e.g. engine).

In contrast to simple function generators, **PAK acs** provides enhanced control over the excitation. The emitted signal is analyzed online and the levels of each individual 3rd octave adjusted instantly, according to a predefined spectrum. In this way the excitation is always performed within a narrow band around the desired spectrum, while the energy distribution in the third octave spectrum is freely definable.

Based on **PAK live** technology, all measurements and modifications of the measurement setup and excitation can be performed without re-initialization as the **PAK MKII** frontend is always ready to measure. This intelligent standalone operation of the measurement frontend ensures high operational security. The safety features incorporated, allow for the system to be shut down automatically when certain limits/levels are reached or in the case of an emergency such as when a door is opened in the test bench.

WHY CHOOSE PAK ACS?

EACH TEST SCENARIO CAN BE REPRODUCED EXACTLY so that comparisons between modification and **varying test setups** can be reliably performed.

COMPENSATES FOR THE INFLUENCE OF INSUFFICIENT TEST CHAMBERS and non-linearity in the frequency response of the speakers.

TARGET SPECTRA are freely adjustable.

COMPENSATES FOR THE INFLUENCE OF THE TEST SUBJECT'S REFLECTIONS AND DAMPING guaranteeing a realistic excitation.

ONLINE ADAPTION ALLOWS FOR REALISTIC SCENARIOS such as real driving measurements, to be simulated and modifications compared quickly.

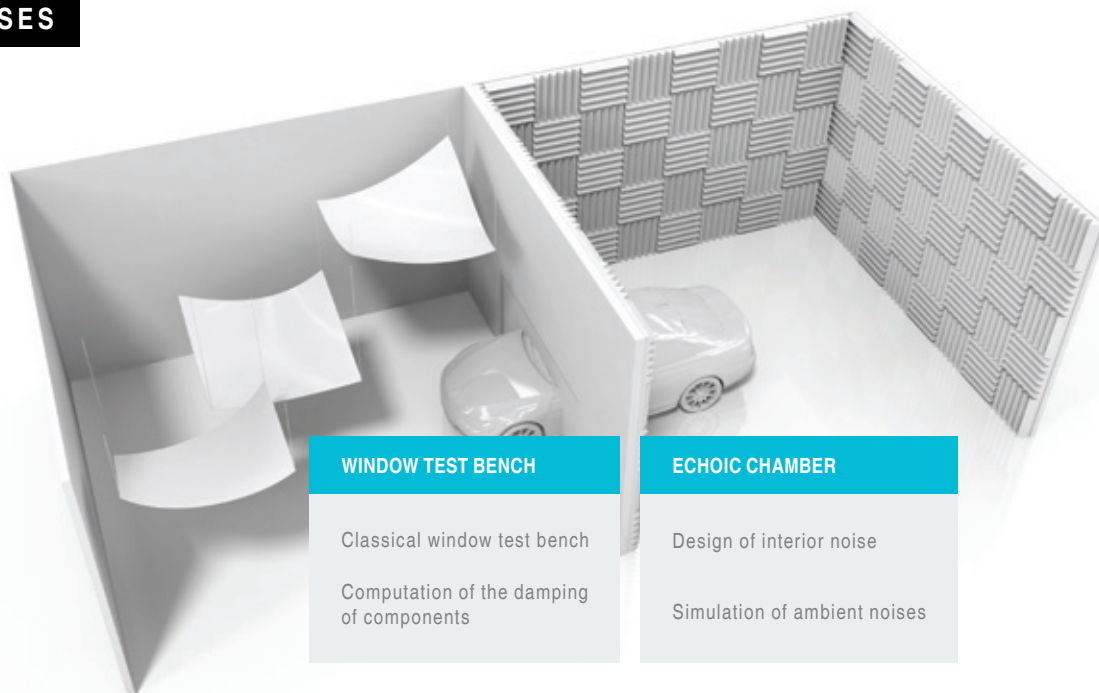
MANUAL TUNING is not necessary.

Users depend on this easy-to-use solution

to perform their tests as robustly and stably as possible.



USE CASES



WINDOW TEST BENCH

Classical window test bench
Computation of the damping
of components

ECHOIC CHAMBER

Design of interior noise
Simulation of ambient noises

About Us

Müller-BBM VibroAkustik Systeme is one of the world's leading suppliers of vibroacoustic measurement technology focused on the interpretation of dynamic and static parameters for the experimental test market. Our tight partnership with industry and acknowledged expertise in acoustics and vibration results in innovative solutions that seamlessly integrate into laboratory, production and field environments.

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