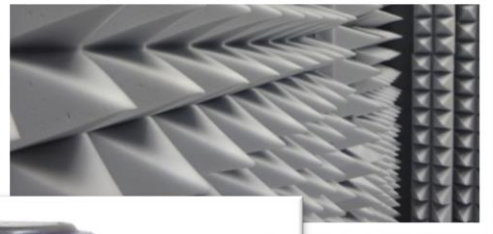


Objective:

Implement noise prevention for individual components or vehicles in accordance with OEM guidelines (e.g., BMW PR311, PR309 etc.), as part of product development.

Implementation:

- Determine actual excitation profile by using mobile measurements, for example on cobbled roads
 - Müller BBM PAK/Siemens LMS
 - Structure-borne sound sensor technology
 - Subjective inventory
- Subjective or metrological analysis of new part, for example in accordance with PR311
 - Excitation by previously determined vibration profile
 - Low-noise shaker <27dB(A)
 - Hemi-anechoic space certified in accordance with ISO 26101 10.6 x 6.6 x 4 m (LxWxH) 50Hz lower cut-off frequency
- Component ageing, for example in accordance with PR309
 - Vibration testing in all 3 spatial directions (X/Y/Z) 40 kN force vector 900 x 900 mm clamping surface
 - With climatic overlay
 - Chamber volume: 1700 litres
 - Temperature range: -70 °C to 180 °C
 - Humidity range: 10 % - 95 %
 - Climate change test, for example in accordance with PR303
- Subjective or metrological analysis of aged component, for example in accordance with PR311



Result:

- Summary of all detected noise sources
- Details and evaluation of noise in accordance with OEM specifications
- Analysis of noise sources
- Fast, immediate solutions
- Elaboration of long-term corrective measures
- Solution implementation support

Acoustic Testing

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