

ACOUSTIC RESEARCH CONSULTING



NVH TEST &
DEVELOPMENT
SERVICES

2023/24 BROCHURE

WWW.ACOUSTIC-RESEARCH-CONSULTING.CO.UK

THE ARC PROCESS

Our team of highly skilled NVH and Audio Engineers offer services throughout the entire development and launch cycle of automotive projects. From up-front competitor benchmarking and target setting through to concept reviews and R&D. ARC also offers services relating to physical prototype assessments and analysis followed by post-launch support in the form of Quality and Manufacturing concerns.



NVH Research & Development

From the assessment of individual components, large-scale assemblies and new materials, our team are experts in NVH R&D and DoF

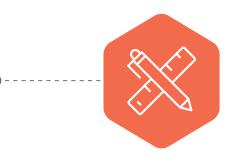


Post-Launch Production & Quality Concerns

Following product launch, ARC offer acoustic support services to manufacturing and quality departments, in order to quickly identify and rectify field NVH concerns.

NVH Benchmarking & Target Setting

Objective and Subjective assessment of competitor vehicles allowing for accurate and relevant target setting, ensuring that your product meets the required NVH quality.



Prototype Assessment & Analysis

Once prototype vehicles are built, ARC offer NVH services to measure and assess the acoustic performance characteristics. This can then be compared to target performance levels with palliative measures developed and evaluated.



OUR SERVICES

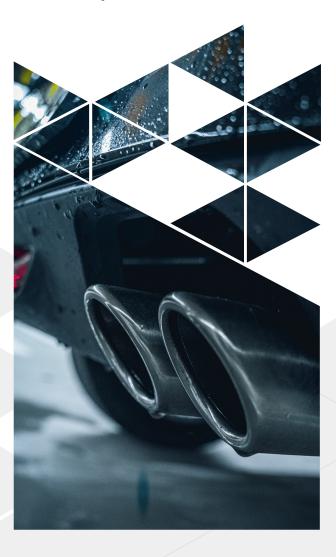
■ Class-Leading Acoustic Engineering & Development Services



At Acoustic Research Consulting, we have many years of experience in NVH Engineering, working alongside some of the world's most prestigious brands. We offer turn-key solutions to our clients, from benchmarking and target setting to full scale NVH development projects.

Dynamic Assessment

Road Noise Wind Noise Powertrain Noise & Vibration E-Motor Noise & Vibration Ride Comfort Whole Body Vibration



Cabin Refinement

Reverberation Time (RT60)
Cabin Isolation
Powered Ancillary System NVH
HVAC Acoustic Refinement

Benchmarking

Competitor Benchmarking Target Setting Subjective & Objective Assessment

NVH Development

Psychoacoustic Analysis
Modal Testing
Root-Cause Analysis
Palliative Assessment
Data Analysis & Post-Processing
Audio System Architecture Design
Loudspeaker & Cabinet Optimisation
Audio System Tuning

Quality & Manufacturing

Objective Acoustic Measurements
Noise Detection
Noise Source Analysis



CONTACT US:

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