

NVH testing

NVH measurements on the entire vehicle



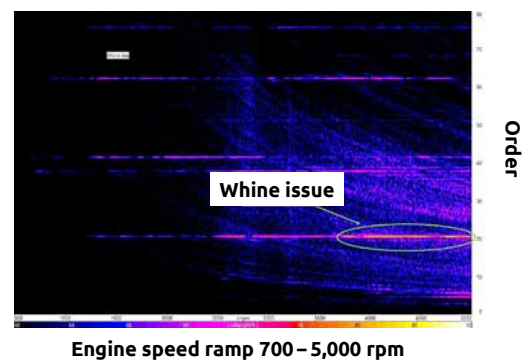
Identify undesired noises and vibrations early

ATESTEO offers reliable NVH testing in its range of drivetrain testing services, both on the test bench and test track. Both component testing on the NVH test bench and NVH measurements on the entire vehicle are decisive for early recognition of NVH phenomena or of absent safety-relevant sounds in an electric powertrain so as to optimise the drivetrain of the later production vehicle. In the case of electric vehicles, that the combustion engine is missing means noises which used to be hidden by the motor acoustically come to the foreground. On the roller dynamometer test bench for acoustics testing and our own in-house test track with a test surface in accordance with ISO 10844, ATESTEO measures noises and vibrations on the complete vehicle in a secured environment as passenger cars, commercial vehicles, and heavy-duty vehicles are driven. ATESTEO tests all types of drivetrains, from electric and hybrid drive systems to combustion engines.

30 years of experience in NVH testing

ATESTEO is the leading specialist in drivetrain testing for combustion engines, electric drive systems, and hybrid drive systems. With many locations right at the sites where transmission and drivetrains are developed, ATESTEO offers customer-oriented solutions for drivetrain testing. With over 30 years of experience in NVH testing, ATESTEO tests vehicles for NVH phenomena on state-of-the-art NVH component test benches, on a roller dynamometer test bench for acoustic testing, and on the test track.

Analysis of gear whining



Our NVH testing services for the entire vehicle:

- Acoustics measurements related to the drivetrain
- Detecting and identifying NVH phenomena
- Pass-by noise (PBN) measurements in accordance with UN ECE 51
- Own test track with a surface with acoustic absorption properties in accordance with ISO 10844
- Own roller dynamometer test bench for acoustic testing

Clutch engagement noise

Clutch squeal

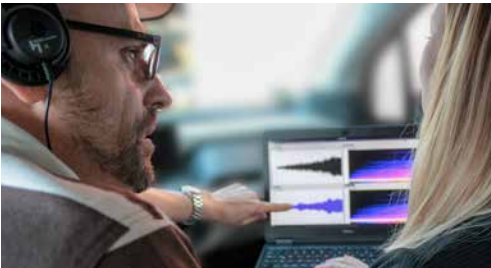
Gear rattle

Start/Stop noise



NVH measurements on the rolling dynamometer test bench

Testing of individual assemblies such as transmissions or axle drives in the entire vehicle for sounds and vibrations on the ATESTEO roller dynamometer test bench for acoustic testing.



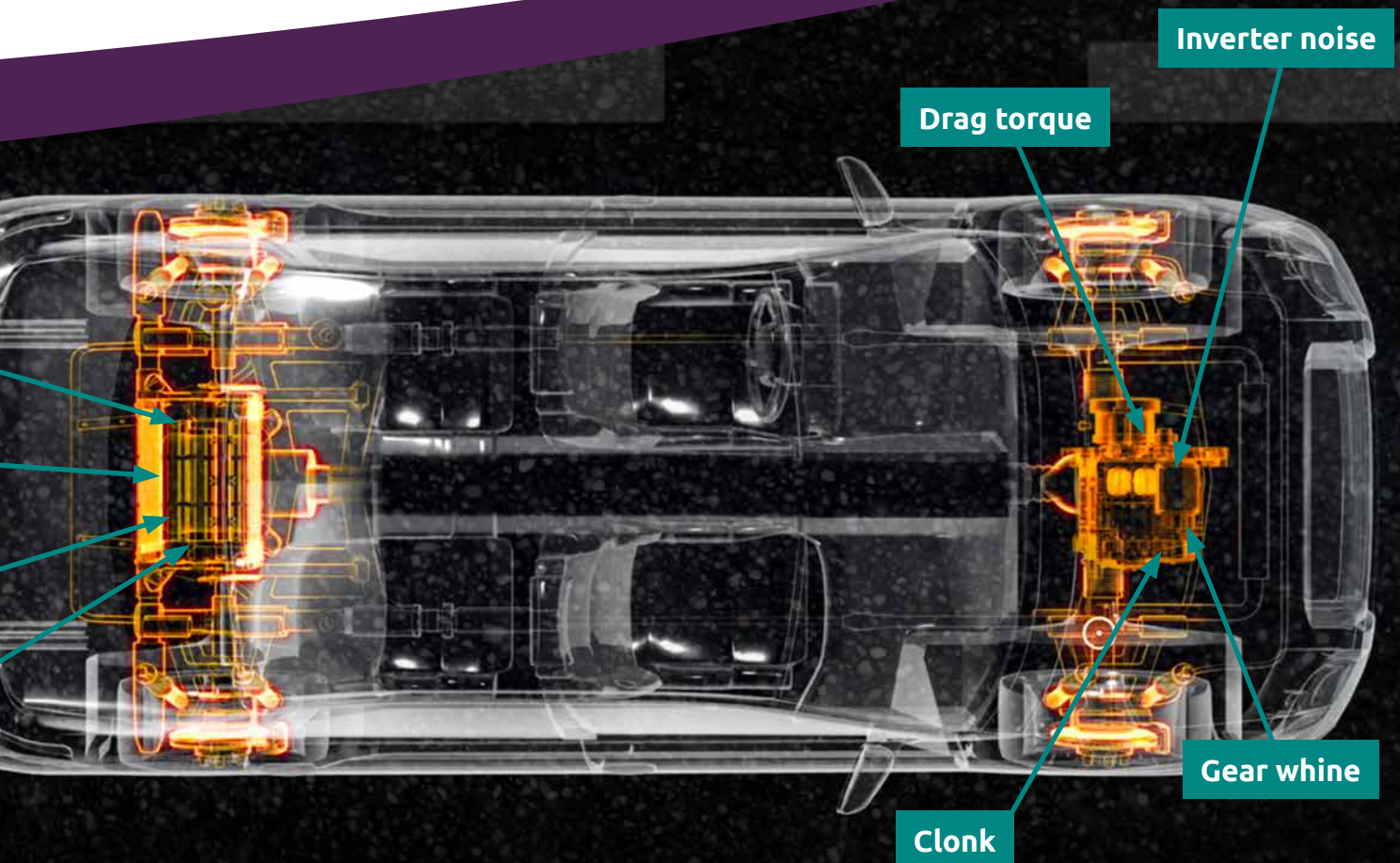
Vibration and noise tests in the vehicle

Vehicle interior noise measurement at the test track and on the roller dynamometer test bench for acoustic testing. Data acquisition and analysis of, for example, structure-borne sound, airborne sound, clutch pedal travel, and engine speeds.



PBN measurements

Conducting measurements of exterior pass-by noise during accelerated pass-by driving on the ATESTEO test track in accordance with UN ECE 51. Data acquisition and analysis of the sound pressure level and driving speed.





Excellence in drivetrain testing

Would you like to learn more about the possibilities of NVH testing at ATESTEO? Then call us at +49 2404 9870-241 or send mail to nvh@atesteo.com. Your personal ATESTEO contact partner is pleased to assist you.

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