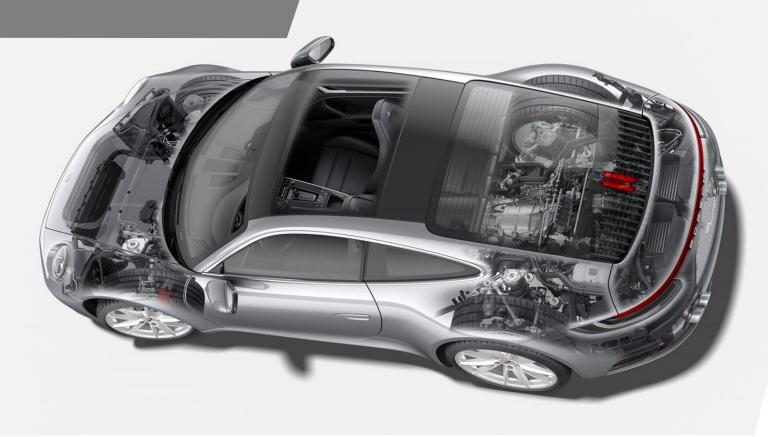
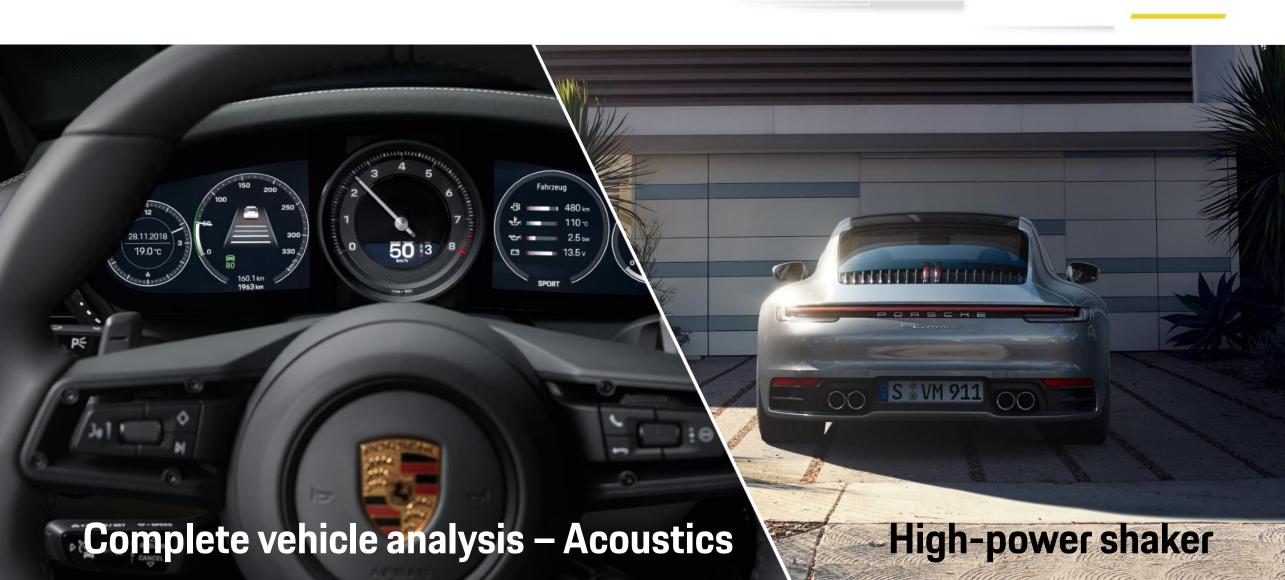


The new 911 Carrera
Technology & Production Workshop
Plant Quality





The new 911 Carrera – Interior acoustics (squeak and rattle)





The new 911 Carrera – Interior acoustics (squeak and rattle)

High-power shaker



Analysis tool for all series

Squeak and rattle noises



Direct car body excitation

Vibration stimulation via skid recordings



Reproducible excitation techniques

100% iteration of real race/test tracks



Effective vehicle analyses

With no test drive / environmental or CO₂ influences



Quiet test bench operation with no side noise

Noise analyses without any ambient/engine noises



Goal: Ensuring quality customer experience

in relation to annoying noises when driven /

in customer use





Methodology

Measurements of real body vibrations on any test/race track using sensors.

Transfer of track profile as a control parameter to the high-power shaker's control unit.

Iteration of the real body vibrations using shaker actuators on the test bench.



The new 911 Carrera – Interior acoustics (squeak and rattle)

Verification

Stimulation profile comparison: Weissach test track vs. shaker

