Fraunhofer IZM | Bosch | SEG | 3-D Radar Sensor Cluster with 360° Detection

© Fraunhofer IZM

To ensure the highest level of safety in automated driving, radar modules were developed within the Korrund project that can be positioned relatively freely on the vehicle. Integrated into a sensor network, they are to enable 360° all-round vision. This is said to give the modules the ability to analyze their environment in real time and from all perspectives simultaneously. To achieve this seamless mapping of the environment, the project partners Fraunhofer IZM, Bosch and SEG Schweizer Electronic AG developed packaging processes for reliable radar sensors with free-form surfaces, which are reported to make any antenna shape and attachment to the vehicle feasible in the future. For this purpose, the previously planar high-frequency substrate was encapsulated in a curved form so that no fixation is required afterwards: A free-form surface is created for antennas that can be used at a 76-GHz frequency while requiring only a minimum of installation space. According to the researchers, the modules make it possible to detect the smallest objects and living creatures from different perspectives.

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Vibracoustic | Air Spring Technology in Hongqi Model

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The top model of the Chinese luxury brand Hongqi, the all-electric SUV E-HS9, is equipped with air springs supplied from Vibracoustic. The welding technology employed for this makes it possible to use both plastic and aluminum for the air spring top pot. This will result in greater design flexibility and reduced overall weight. The springs can lower the vehicle body at high speeds, thus improving aerodynamics and increasing range, as well as contributing to better passive battery cooling. In addition, the SUV model is equipped with hydro brushings that respond to excitations from the road surface.

Correction to: *Influence of Hydrogen on Fatigue Strength of Austenitic Steels*

In: ATZ Worldw 119, 68–71 (2017),
DOI 10.1007/s38311-017-0133-x

Authors: Chris Kohler, Stefan Zickler, Stefan Weihe

The online version of the original article can be found at: <https://doi.org/10.1007/s38311-017-0133-x>.

This correction is published to notify a correction in the legend order of Figure 2 on page 70. See the corrected version below: The original version was altered as:

He, H₂, He, H₂

We ask for your attention.