

Media Information  
March 2017

## **Electromagnetic compatibility (EMC)**

The BMW Group runs two EMC absorber halls to test the electromagnetic compatibility of all the systems found in complete vehicle. Located at the Munich Research and Innovation Centre (FIZ), the facilities offer not only reproducible lab conditions but also dynamic driving simulations. With that, the potential interaction of various electronic systems and assistance functions can be simulated and practically tested on the basis of realistic driving situations. Trials shed light on how the various electronic systems and assistance functions interact in realistically driving simulations, and on the practical implications.

The larger of the two halls is 29 metres long, 17 metres wide and 11 metres high. Equipment includes a roller dynamometer and computer-controlled, moving mock-ups, which the engineers use to test how driving stability systems are activated and driver assistance systems intervene at precisely defined speeds. Movable antenna systems on the ceilings of the test chambers generate the electromagnetic fields required; outside, the hall is shielded to prevent external influences from affecting measurements.

From the absolute reliability of chassis control and assistance systems to interference-free phone, radio, TV and navigation reception, the EMC halls allow the full spectrum of systems to be validated within the context of the complete vehicle. The two facilities perform about 450 vehicle tests a year, ensuring the quality and overall reliability of BMW Group products in the face of the ever greater challenges of electromagnetic compatibility.

### **For more information please contact:**

Niklas Drechsler, Spokesperson Innovations  
BMW Group Innovations and Design Communication  
Phone: +49-89-382-28149, Fax: +49-89-382-20626  
E-Mail: [niklas.drechsler@bmwgroup.com](mailto:niklas.drechsler@bmwgroup.com)

Internet: [www.press.bmwgroup.com](http://www.press.bmwgroup.com)  
E-Mail: [presse@bmw.de](mailto:presse@bmw.de)

Company  
Bayerische  
Motoren Werke  
Aktiengesellschaft

Postal address  
BMW AG  
80788 Munich

Telephone  
+49 89 382 72200

Internet:  
[www.bmwgroup.com](http://www.bmwgroup.com)