

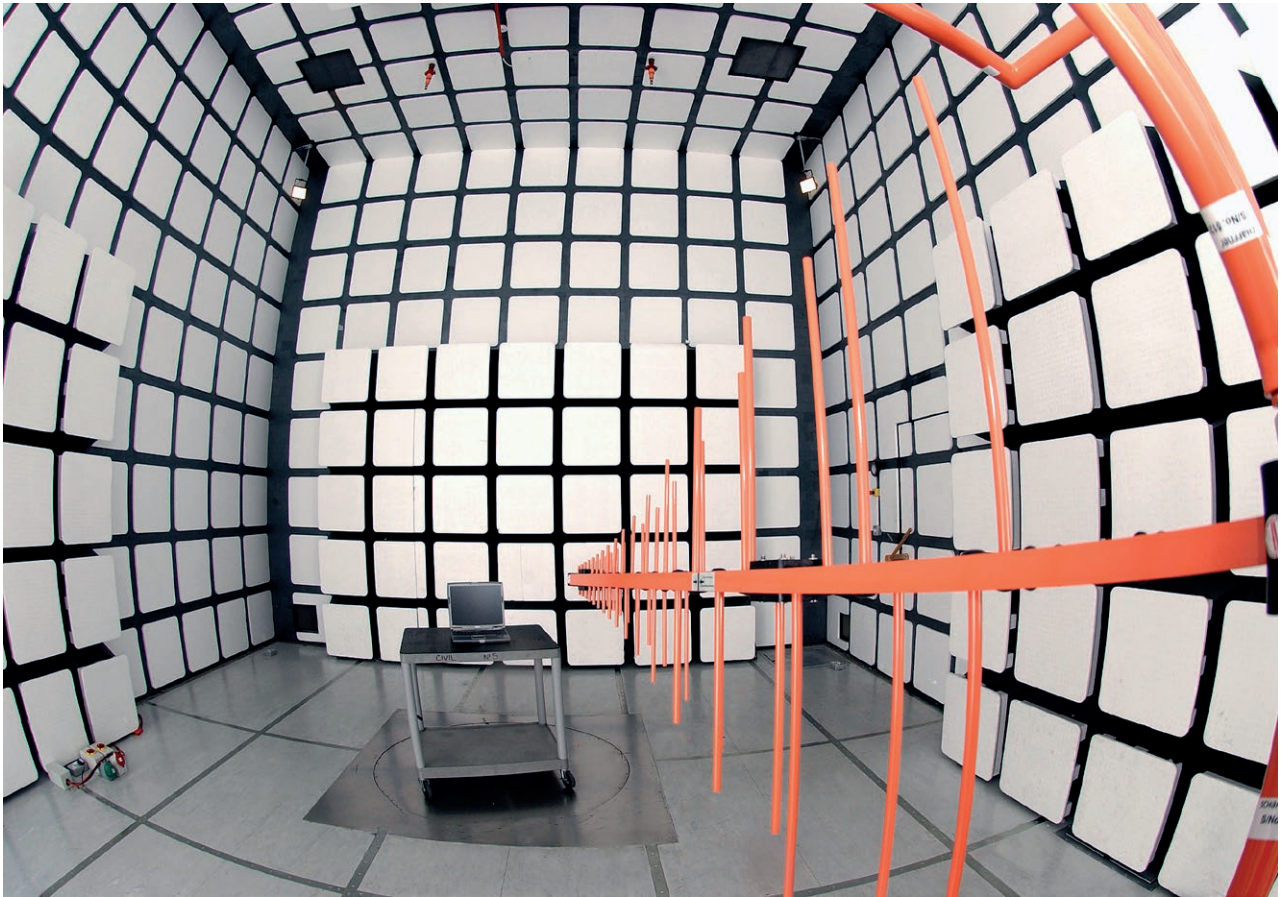


Product Service

Choose certainty.  
Add value.

## EMC Testing

One-stop solutions for ensuring  
the electromagnetic compatibility  
of your products



Electromagnetic Compatibility (EMC) testing can determine whether a system or piece of equipment is able to function satisfactorily in its electromagnetic environment without introducing intolerable electromagnetic disturbances. Emissions testing focuses on the electromagnetic disturbances a product produces, whilst immunity testing looks at the level of protection a product has against other electromagnetic disturbances in its intended environment.

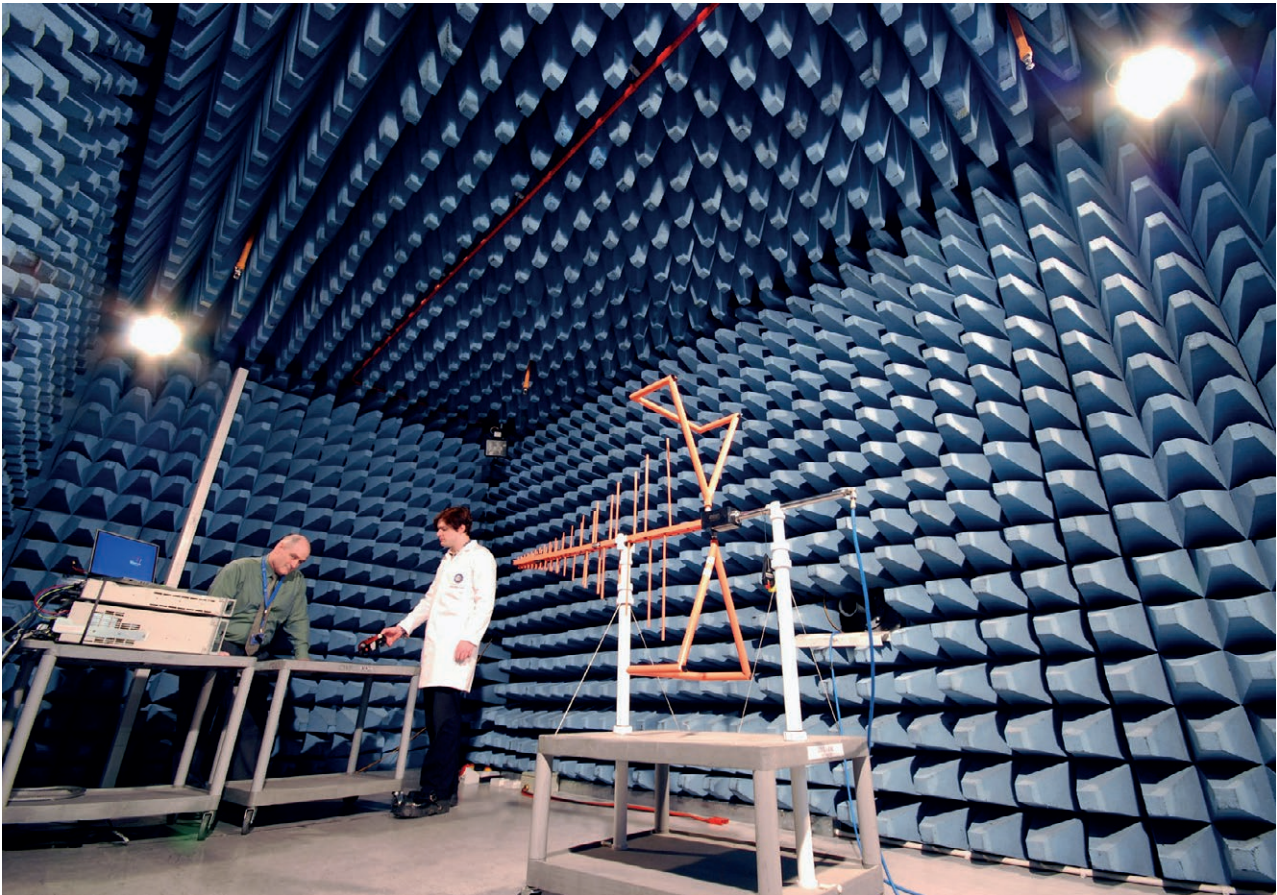
As one of the world's largest independent providers of Electromagnetic Compatibility (EMC) testing, TÜV SÜD Product Service can assist you with all your compliance requirements.

Our advanced test facilities are located throughout the world and are supported by an extensive pool of dedicated and accessible professional EMC engineers. We regularly operate 7 days per week, which extends our capacity and responsiveness.

With the help of our professional engineers, our customers can resolve most EMC regulatory issues, benefiting from assistance from the conception stage to final production, thereby reducing the risk of costly non-compliances.

### Your Benefits

- Have confidence that your product meets internationally recognised standards through independent third party testing
- Demonstrate compliance through testing using a company recognised internationally for safety, reliability and compliance
- Gain access to a network of globally accredited laboratories within the same company
- Benefit from our unrivalled responsiveness and capacity as well as our industry leading report turnaround times



## EMC Testing Facilities

Our customers run their product compliance programmes with the confidence that they are working with the UK's leading EMC testing laboratory. Our EMC test facilities in Fareham, Hampshire, and Bearley, Warwickshire, have among the most comprehensively equipped facilities in Europe, including:

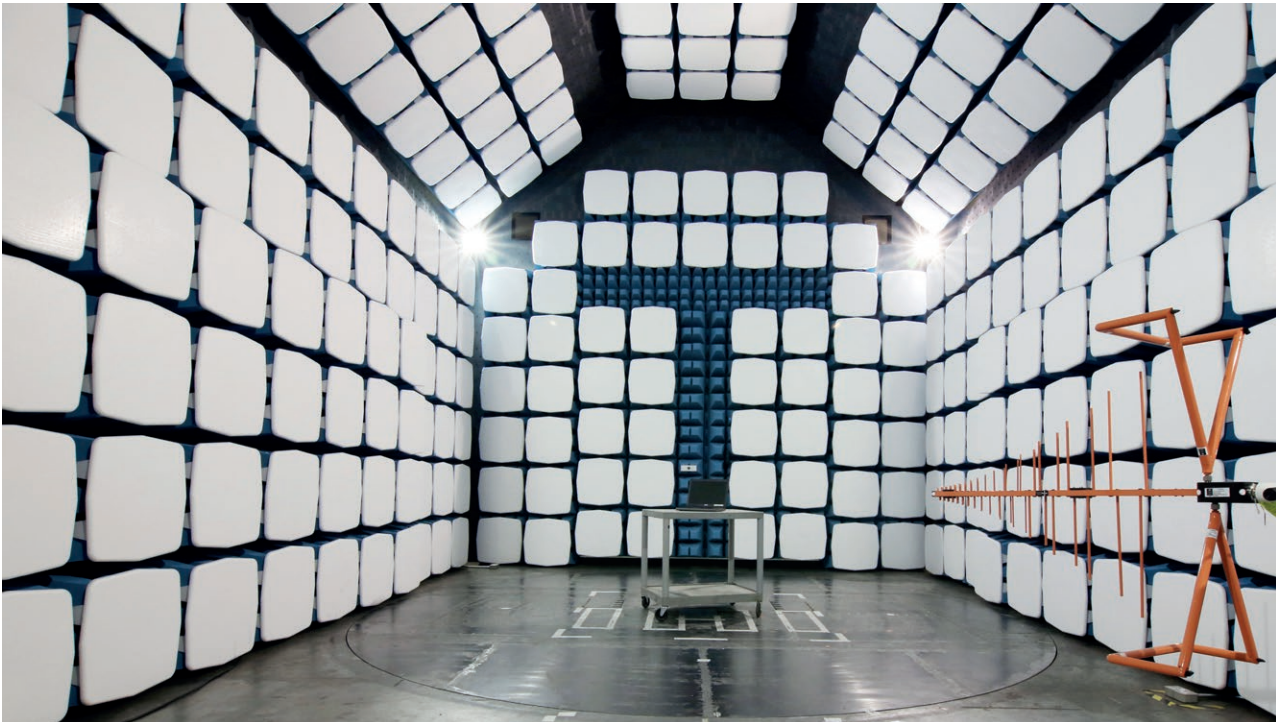
- 11 Semi Anechoic Enclosures (up to 10m x 7m x 6m, doors up to 4m)
- 9 dedicated EMC laboratories
- Two 10m x 7m x 6m chambers with 3m & 5m diameter turntables
- Conducted emissions and immunity testing from 10Hz to 400 MHz
- Radiated emissions and immunity testing from 10Hz to 40GHz
- Power supply conditioning, transient and lightning simulation testing
- Lightning simulation - indirect lightning strike, single stroke, multiple burst and multiple stroke
- High susceptibility levels in excess of RTCA DO 160D/E Cat G & K – 600V/m CW and 2500V/m pulse modulated (frequency dependent)
- Two large 3m CISPR22 compliant and FCC listed / VCCI chambers

## EMC Consultancy

- Design Risks
- Regulatory Advice
- Gap Analysis
- Test Plans & Procedures
- Requirements Management
- Qualification Strategy & Management
- Review of Technical Documentation

## Additional Services

- High Intensity Radiated Fields (HIRF)
- EMF Testing
- TEMPEST Testing
- Electrostatic Discharge
- Harmonics and Flicker
- On-site Testing and Site Surveys
- Radiation Hazards (RADHAZ)
- Complementary Safety, Wireless & Environmental Testing
- Training



### Expertise Endorsed by Accreditations and Appointments

Our EMC technical expertise is endorsed by the accreditations and appointments that we hold, including accreditations that enable us to offer testing in our laboratories or at clients premises. Under our UKAS accreditation we are able to add specifications at short notice through our approved flexible schedule process. The extensive scope that we offer means that you will only have to use one test laboratory to complete your product testing.

You can gain access to markets around the world and to the requirements of many different industries by making use of our numerous accreditations and appointments, which include:

- ISO/IEC 17025
- FCC (USA)
- ISED (Canada)
- VCA (UK Vehicles)
- VCCI (Japan)
- AZ/NZ (Australia/New Zealand)
- CB Scheme (Global)
- CESG (UK Defence)
- CAA (UK Civil Aviation)
- Notified Body for the European EMC Directive

#### UK EMC Laboratories:

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 Octagon House, Concorde Way, Segensworth North,  
 Fareham, Hampshire, PO15 5RL  
 +44 (0)1489 558100  
 www.tuv-sud.co.uk

### Markets/Industries

- Aerospace & Defence
- Radio & Telecommunications
- Medical Devices
- Domestic & Commercial Power Tools
- Industrial
- Rail
- Marine

### Typical Standards

- DEF STAN 59-411
- DEF STAN 59-41
- MIL-STD 704
- MIL-STD 461
- RTCA-DO160 D/E/F/G
- EUROCAE/ED-14 D/E/F
- Boeing D6-16050
- Airbus ABD0100 series
- EN55032
- EN 55024
- EN 61326
- ETSI EN 301 489 Series
- EN 61000-6-1/2/3/4 Series

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