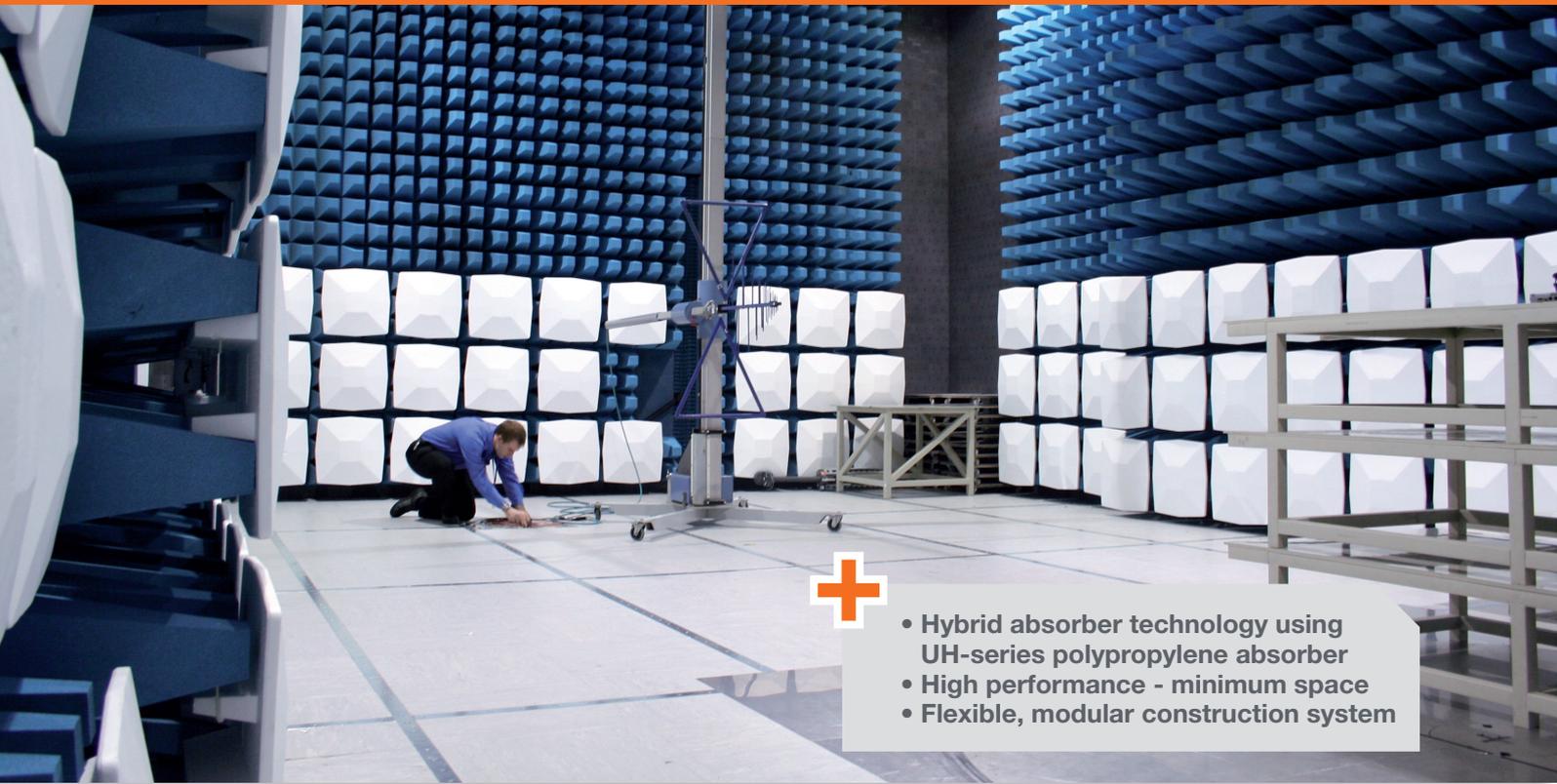


EMC - 5

5 Meter Anechoic EMC Test Chamber



- Hybrid absorber technology using UH-series polypropylene absorber
- High performance - minimum space
- Flexible, modular construction system

SOLUTION FOR

EMC test sites requiring to meet Emission & Immunity standards

Main features

- SmartShield compact modular design & construction
- SmartShield doors
- HyPyr-Loss™ hybrid anechoic material
- Frequency range: 30 MHz - 18 GHz (easily extended to 40 GHz)
- Radiated emissions testing up to 5 m distances
- Larger quiet zones & dual-axes test configurations
- Shielding effectiveness as per MIL-STD-295/IEEE 299 up to 100 dB attenuation
- Customized configurations and dimensions available
- Turnkey chamber and system options available

The EMC-5 is designed to accommodate testing of larger EUTs than a typical 3 m chamber. It can offer full-compliance radiated emissions testing and full compliance radiated immunity testing at 3 m distances with much better performance. It offers much greater flexibility and it gives the ability to test at 5 meter distances, or on a dual-axes configuration (e.g, at orthogonal polarizations or different distances). The high performance is powered by the MVG Smart-Shield shielding system combined with MVG HyPyr-Loss™ UF ferrite tiles and UH-series polypropylene absorber.

When designing products which are required to conform to EMC standards, it is highly recommended that potential problems are resolved early in the process. Pre-compliance testing is a cost-effective way of diagnosing and removing possible problems in the design before the necessary full compliance testing and product certification. Early diagnosis can dramatically reduce R&D costs, manufacturing costs, and time to market.

The advanced technology in our HyPyr-Loss™ hybrid materials, a unique combination of ferrite tiles & polypropylene pyramid absorbers, optimizes EMC measurement performance. These closed-cell absorbers increase repeatability, reduce the volumetric space, and resist age-related deterioration.

The advantages of our unique SmartShield high performance shielding system are significant with performance in excess of 100 dB for most frequencies. The construction of modular panels with RF connecting joints enable an easily demountable chamber. This is a major benefit for our customers where future relocations are necessary.

MVG brings unparalleled expertise in the field of electro-magnetics, and in chamber design & construction. We use specialized design tools such as Solidworks 3D, which allow us to offer our customers customized, turnkey capabilities. We are able to modify and develop our existing designs to meet any requirement you may have. With customer satisfaction as priority, our advanced development and production facilities, accredited to ISO 9001 & ISO 14001, ensure all products achieve low maintenance and long life.

Product Configuration (Typical)

Dimensions (shielding)	11.5 m x 7.5 m x 5.8 m (H)
Performance Range	26 MHz to 18 GHz (40 GHz options available)
Standard Equipment	<ul style="list-style-type: none"> • SmartShield RF shielding • HyPyr-Loss hybrid anechoic treatment • 3.0 m x 3.0 m double doors • 0.9 x 1.2 m (H) personnel door • 3 m flush-mount turntable, 1,000 kg load capacity • Boresight & standard antenna masts • Attenuvent waveguide vents (26.5 GHz, 300 mm x 300 mm) • Penetration panel (300 mm x 300 mm) • Raised floor access box (300 mm x 300 mm) • Feed-through connectors • Powerline filters • LED spotlights • Conduit, wiring, switches

Optional Accessories	<ul style="list-style-type: none"> • Customized doors: sizes, semi-auto, fully auto • Customized ramps & zero-threshold entry • Large, higher capacity turntables • Dynamometers • Test benches • CCTV & audio options • HVAC & exhaust extraction • Fire detection/suppression • Ante rooms • Third party testing (NSA, Svswr, FU) • Turnkey EMC systems
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Technical data

Full compliance testing for Radiated Emissions	<ul style="list-style-type: none"> • CISPR 16-1-4 • ANSI-C63.4 • FCC parts 15 & 18 • CISPR commercial product standards (13, 14, 15, 22, 24, 32, 35, and more)
Full compliance testing for Radiated Immunity	<ul style="list-style-type: none"> • ISO 17025 • ISO 9001 • ISO 14001
Quality Standards	<ul style="list-style-type: none"> • ISO 17025 • ISO 9001 • ISO 14001



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