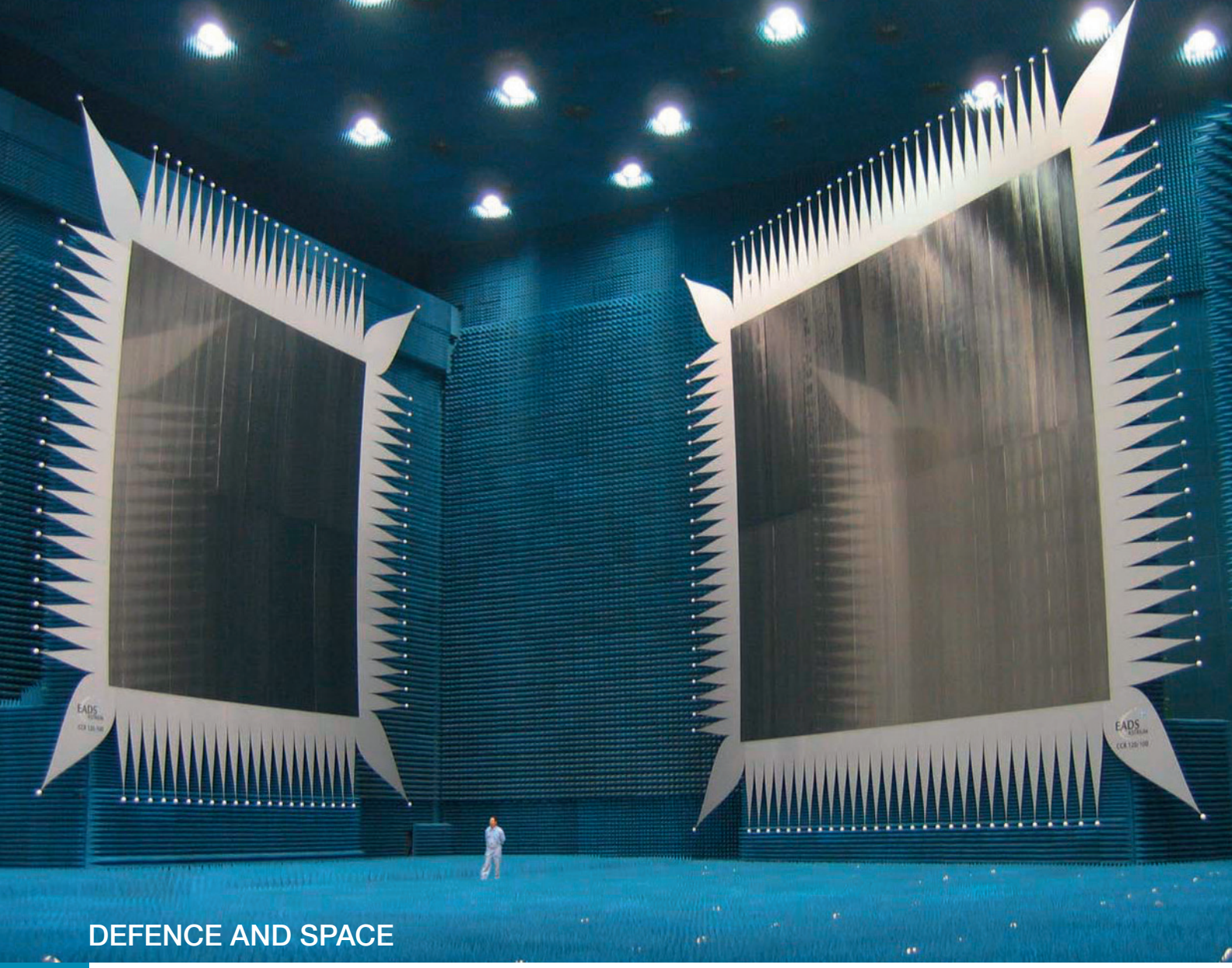


DEFENCE AND SPACE

Space Equipment

Testing

Compensated Compact Range (CCR) Antenna Measurement Facilities

50 Years Experience in High-End Antenna Measurement Techniques

AIRBUS

Antenna Measurement Facilities

General Description

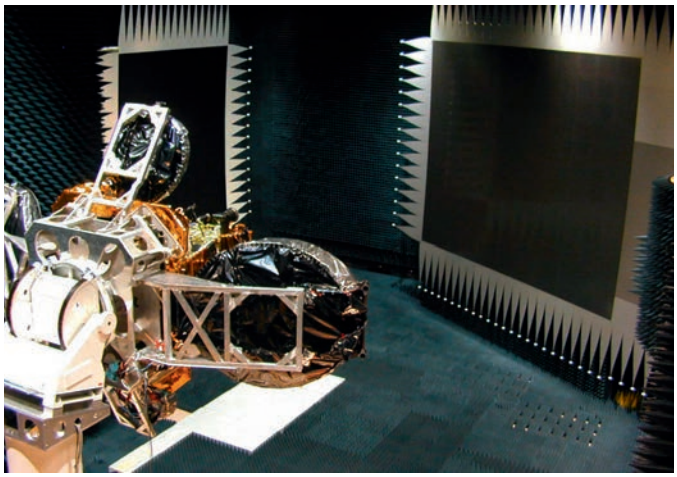
AIRBUS DS Compensated Compact Range Program represents the world-standard in antenna test facilities for the space industry due to the unique design and the outstanding quality.

The extreme long equivalent focal lengths of AIRBUS's CCRs allow complete satellite payload testing by applying scanned quiet zone measurements. For testing of frequency reuse perfor-mance of satellite transponders the Compensated Compact Range design delivers highest cross-polar purity.

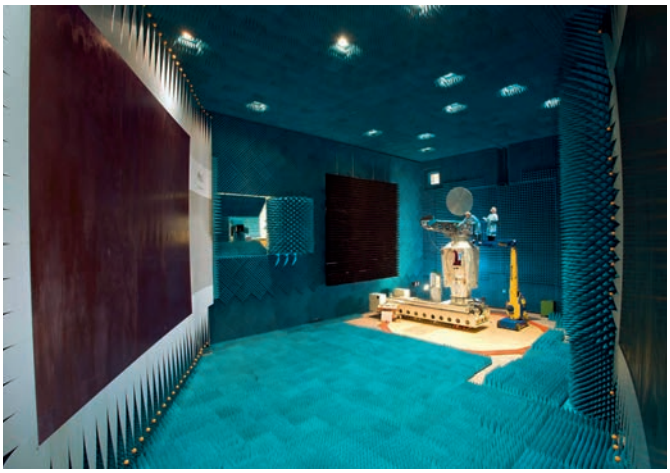
Therefore the Compensated Compact Range Program is a preferred choice for the Aerospace and defence industry in the areas of research, development and production testing.

Key Features

- Real-time indoor measurements under far-field conditions
- Frequency range 1.0 – 200 (500) GHz
- Cross-polar compensated system / beam-squint-free
- Test zone size up to 8.0 m
- Enlargement of test zone size by Quiet Zone Extension
- Excellent amplitude and phase uniformity
- Steerable & multiple test zones for real-time end-to-end payload testing
- Extreme high azimuth resolution of up to 1/10 000 degree due to scanned quiet zone capability
- Long term reflector stability
- Well proven manufacturing process



CCR 75/60 at AIRBUS DS Munich



CCR 20/17 of AIRBUS DS

Typical Key Data	CCR 120/100	CCR 75/60	CCR 20/17
Frequency Range1	1.0 – 100 GHz	1.5 – 200 (500) Ghz	3.5 – 400 Ghz
Diameter of Test Zone	up to 8.0 m	up to 5.0 m*	up to 1.5 m
Pattern Measurement Accuracy	±0.75 dB @ -30 dB SLL	±0.75 dB @ -30 dB SLL	±0.75 dB @ -30 dB SL
Cross-Polarization	-45 dB	-45 dB	-45 dB
Gain Accuracy	±0.2 dB	±0.2 dB	±0.2 dB

Custom-tailored designs are available on request.* 6.0 m x 5.0 m by Quiet Zone Extension upgrade.

AIRBUS

Airbus Defence and Space

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