

Vertical Anechoic Chamber

The Vertical Anechoic Chamber is intended for mmWave tests and measurements, including but not limited to Automotive RADAR measurements, small-aperture Antenna measurements, OTA tests of 5G NR mmWave transceivers testing and others.



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The key specifications of the Anechoic Chamber are given below:

Parameter	Value
Internal Dimensions (W x H x D)	915 x 1336 x 866
Orientation	Vertical
External Dimensions (W x H x D)	1223 x 1615 x 1163
Frequency Range	18 GHz – 110 GHz
Maximum Incident Power Density on Walls	1.5 kW/m ² , 750 V/m
Internal Reflectivity	-55 dB
Shielding Effectiveness	>70 dB (est.)
2 axis Rotation System Rotation Range	-90° to 90°
RUT Maximum Dimensions (W x H x D)	Center of rotation ±150 mm
RUT Maximum Weight	> 5Kg
Operating Temperature Range	+5°C to +35°C
Operating Humidity Range	30% to 70%

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The Chamber consists of 3 sections:

1. **Bottom section** – Power System, Rotor Drivers, External Connection Panels
2. **Middle Section** – Anechoic Chamber, Front Door, Side Window (for automatic handler's access)
3. **Upper Section** – Measurement and Generation equipment, fixtures for Reflectors, Antennas, Up/Down converting units.

The **Vertical Anechoic Chamber** is modular, scalable, and can be customized according to customer's requirements.