

5G Antenna Positioning System

Orbis Systems' turnkey solution for 5G active antenna testing

Orbis Systems is presenting two different standard 5G Antenna Positioners in this datasheet. We have one for **5G Sub 6 GHz OTA Chamber** and smaller one for **5G mmWave OTA Chamber**.

Orbis Systems is having turnkey solution which includes OTA chamber with needed interfaces and accessories, positioner system with antenna positioner, DUT positioner, and calibration package.

All specifications of our standard products can be adjusted according to customers' needs.

5G Antenna Positioning System

General:

Antenna positioner has three axes. Measurement antenna height, measurement distance and antenna polarization can be adjusted.

Position of each one of the axes can be read real-time through Ethernet interface (REST API). Each positioner axes has absolute position sensor and it will not lose position during power shutdown, so additional scales or rulers are not needed. Zero/home positions are calibrated during installation.

5G Antenna Positioning System for 5G Sub 6 GHz OTA Chamber

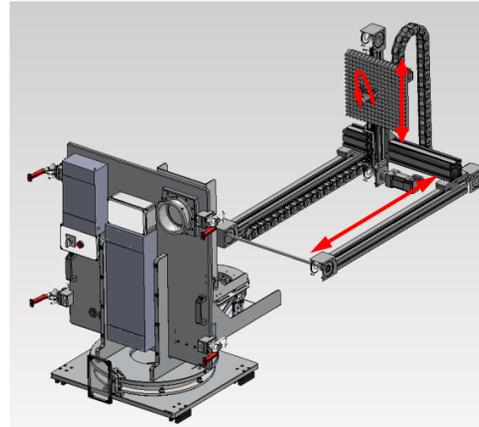
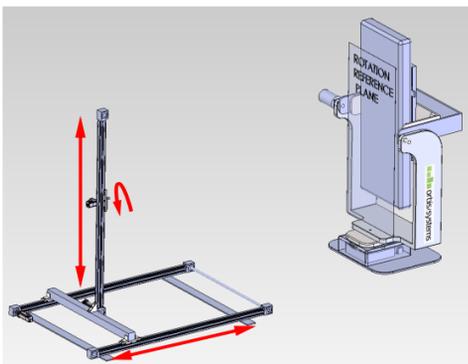
Positioner travel:

- 1640 mm Elevation range
- 1770 mm z-axis range (measurement distance)
- ± 90 degree antenna rotation (polarization rotation)

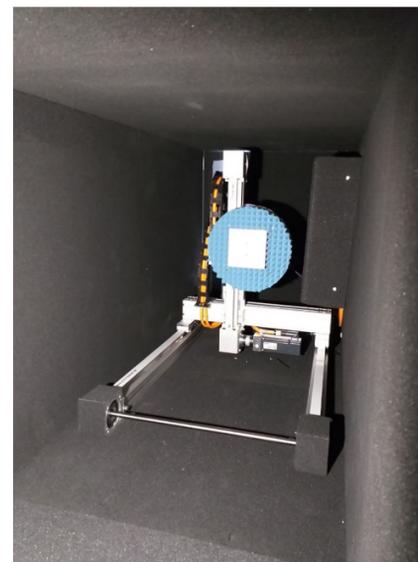
5G Antenna Positioning System for 5G mmWave OTA Chamber

Positioner travel:

- ca. 379 mm Elevation range
- 780 mm z-axis range (measurement distance)
- ± 90 degree antenna rotation (polarization rotation)



5G Antenna Positioning System for 5G Sub 6 GHz OTA Chamber



5G Antenna Positioning System for 5G mmWave OTA Chamber

Orbis Systems provides quality control solutions, functional testing solutions, components and services for customers' R&D, production and after-sales needs.

Orbis Systems' testing solutions have been used in the telecom and electronics industry over 20 years and operations have been global already 15 years.

Company locations:

FINLAND

Oulu, Vantaa

CHINA

Beijing, Shenzhen, Shanghai

INDIA

Chennai

USA

Dallas

SALES CONTACTS

<https://www.orbissystems.eu/en/company/sales-contact/>

OR CONTACT FORM

<https://www.orbissystems.eu/en/contact/>

5G Antenna Positioning System

Orbis Systems Antenna Positioning System for 5G active antenna testing

Measurement antenna:

- Payload 2kg
- Customized antenna mounting bracket

Speed and accuracy:

- 50mm/sec, max payload
- 10 degree/sec, max payload

Controller for Antenna Positioners

Two positioners (DUT and antenna positioners) can be connected to the same controller. Controller has local user interface and REST API commands for the remote control.

Specification:

- Remote interface
 - Ethernet, RJ45
 - REST API
- Local userinterface
- Hardware
 - Industrial PC, windows 10 operating system
 - Keyboard, track mouse and 24" display
 - Emergency button
 - Main switch 230VaC



Controller for Antenna & DUT Positioners



User interface for Antenna & DUT Positioners



5G Sub 6 GHz OTA Chamber



5G mmWave OTA Chamber