3 Axis DUT Positioner APL-100kg

Technical data:

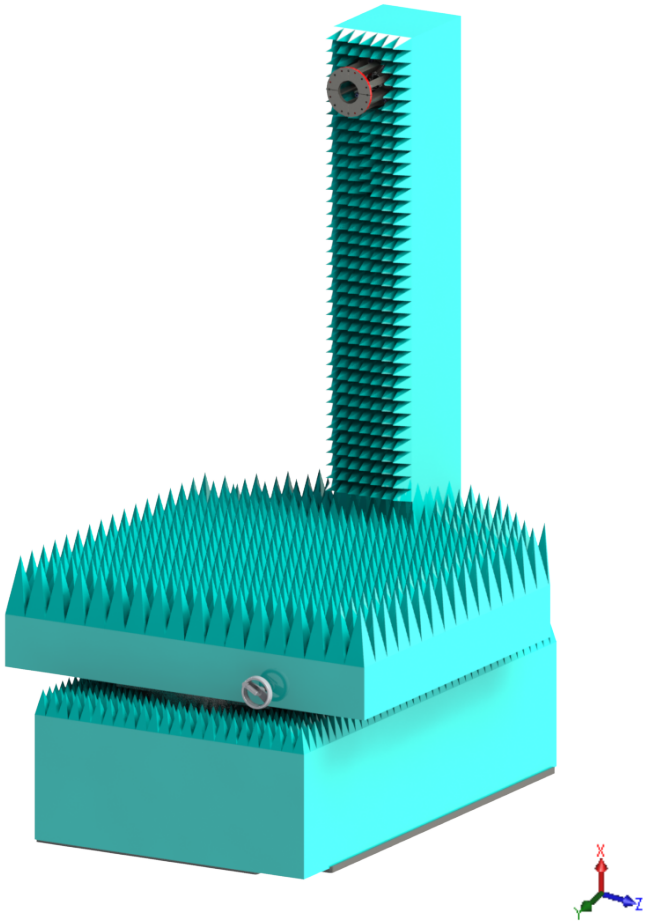
Load capability	max. 100 kg
Distance center of gravity of DUT to mounting flange	max. 150 mm
Rotating angle azimuth (x-axis) electrically	+/- 180°
Speed azimuth adjustable	0.5°/s – 18°/s
Rotating angle polarization (y-axis) electrically	continuous
Speed polarization adjustable	0.5°/s – 30°/s
Polarization axis height above chamber floor	2.1 m
Positioning accuracy in each axis	+/- 0.03°
Linear movement range manually (manually lockable)	600 mm
Positioning accuracy linear	+/- 1 mm
Overall dimensions (L x W x H) in m	approx. 1.5 x 1.3 x 2.4
Motors	Synchronous servo motors
Drives	High accurate gears
Voltage	380 VAC – 480 VAC, 50 Hz / 60 Hz three phases
Current consumption	max. 16 A
Required RCD	300 mA
Control cable	Fiber optic lines
Remote control via	LAN (TCP/IP); (IEEE only with NCD)
Interference suppression	20 dB under limits DIN EN 55011:2018-05 class B
Operating temperature	10° C – 35 ° C
Total weight	approx. 1100 kg
Accessories	Wooden plates for absorber mounting Absorbers for covering Mounting plate for antennas Power supply cable Service manual

Other specifications upon on request

Properties of the APL

- Azimuth, polarization and linear positioner
- Spherical Great-Circle Cut system
- High accurate antenna measurement capabilities for both, near-field and far-field data acquisition
- 5G NR FR1 / FR2 OTA testing capabilities
- Accuracy enough for a frequency coverage up to 90 GHz
- Ideal for Antenna-Under-Test (AUT) like satellite dishes or massive MIMO base station-antennas
- Independent rotations of all motion axis
- Variable speed adjustments at all axis
- Readout by high accurate encoders
- Integrated rotary joint for EUT and antennas available upon request
- Easy installation and implementation in existing chambers

The LAN (TCP/IP) - interface provides an additional control option for all functions, when operated with the FCU$^{3.0}$ or NCD Controller



Information presented enclosed is subject to change as product enhancements are made regularly. Pictures included are for illustration purposes only and do not represent all possible configurations.