

Antenna Positioning System APTL & EAP

Our innovative OTA/CTIA positioning systems were especially developed for the smooth and accurate positioning of devices and antennas during tests. Both can be positioned in linear axes (vertical and horizontal) and in rotation axes (elevation, azimuth, tilt and polarisation), depending on customer requirements.



- Consists of an APTL (Azimuth Polarization Tilt Linear Positioner) and an EAP (Electrical Antenna Positioner) mounted on linear rails
- 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 stationantennas
- 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

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.



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Technical data APTL:

Load capability	max. 50 kg
Distance center of gravity of DUT to mounting	max. 150 mm
flange	
Rotating angle azimuth (x-axis) electrically	+/- 90°
Speed azimuth adjustable	0.5°/s – 18°/s
Rotating angle polarization (y-axis) electrically	+/- 60°
Speed polarization adjustable	0.5°/s – 30°/s
Polarization axis height above floor	1.75 m
Tilting angle (z-axis) electrically	-45 ° (down) to + 60° (up)
Speed tilting adjustable	0.5°/s – 18°/s
Positioning accuracy in each axis	+/- 0.05°
Linear movement range manually	500 mm
(manually lockable)	500 mm
Positioning accuracy linear	+/- 1 mm (indicated by scale)
Mounted on linear rails for manual distance adjustment	approx. 600 mm
Accessories	Wooden plates for absorber mounting Absorbers for covering Mounting plate for antennas Power supply cable Service manual

Technical data EAP:

max. 5 kg
+/- 60°
0.5°/s – 18°/s
1.3 m – 2.2 m (1.75 m +/- 0.45 m)
+/- 0.05°
+/- 450 mm
+/- 450 mm
1 cm/s – 10 cm/s
+/- 1 mm
approx. 5.5 m
Wooden plates for absorber mounting Absorbers for covering Mounting plate for antennas Power supply cable Service manual

eMail: Web:



Technical data general:

Metal structure
approx. 8.4 m x 1.6 m x 2.6 m
Synchronous servo motors
High accurate gears
380 VAC – 480 VAC, 50 Hz / 60 Hz three phases
max. 32 A
300 mA
Fiber optic lines
LAN (TCP/IP); (IEEE only with NCD)
20 dB under limits DIN EN 55011:2018-05 class B
10° C – 35 ° C
approx. 4300 kg
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Other specifications available upon on request

Sales Partner:



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