

Polarization over Azimuth Positioner

PA-50kg

Technical data:

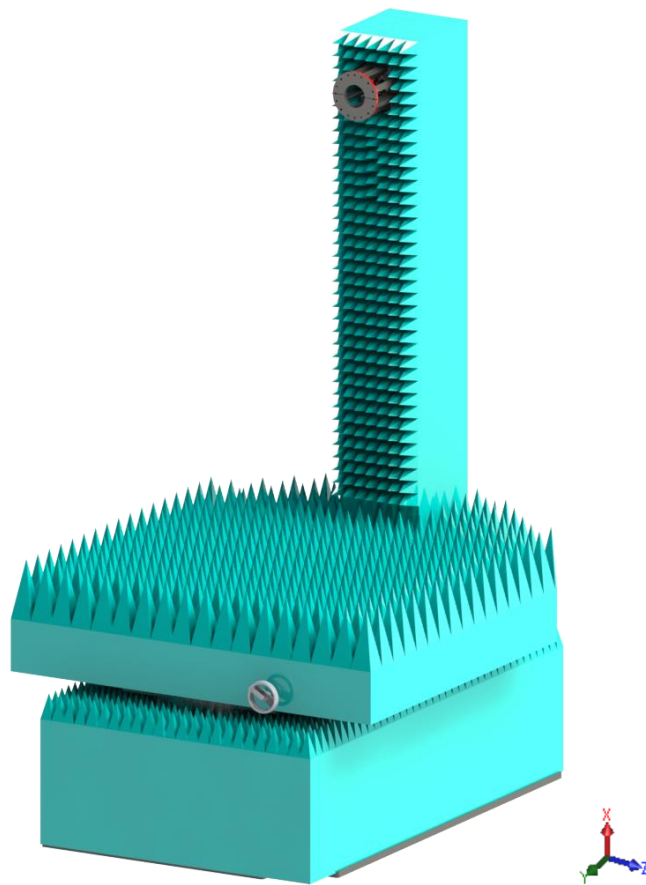
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| Load capability | max. 50 kg |
| Rotating angle azimuth (x-axis) electrically | +/- 180° continuously also possible |
| Speed azimuth adjustable | 0.5°/s – 18°/s |
| Rotating angle polarization (y-axis) electrically | continuous |
| Speed polarization adjustable | 0.5°/s – 30°/s |
| Positioning accuracy in each rotating axis | +/- 0.05° |
| Polarization axis height above chamber floor electrically adjustable (x-axis) | 1.8 m – 2.0 m |
| Linear movement range manually (manually lockable) | 600 mm |
| Positioning accuracy linear | +/- 0.1 mm |
| Overall dimensions (L x W x H) in m | approx. 1.5 x 1.3 x 2.6 |
| Motors | Synchronous servo motors |
| Drives | High accurate gears |
| Voltage | 380 VAC – 400 VAC, 50 Hz / 60 Hz three phases |
| Current consumption | max. 32 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. 1300 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 PA-50kg

- Polarization over azimuth positioner with three automatic (azimuth, polarization and height adjustment) and one manual axis (linear axis to adjust distance between polarization mounting flange and azimuth axis)
- 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.