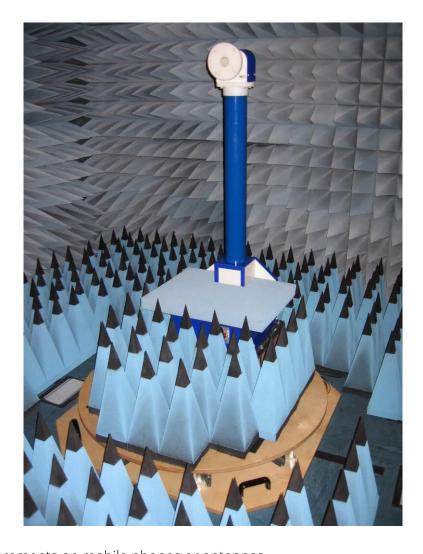


Over The Air Positioner OTAP - 10kg

The state-of-the-art OTA Positioning system is especially designed to provide smooth rotations of test objects in both theta and phi axis. The OTAP system performs three-dimensional over-the-air-radiation measurements on handheld wireless devices or antennas.



- Measurements on mobile phones or antennas
- Independent rotations of both axes
- Variable speed adjustments in both theta and phi axes
- Possibility of operation in manual, semi-automatic and simultaneous remote control mode via IEEE 488.2 (GPIB bus) Ethernet with the controller FCU3.0 or NCD (IEEE 488.2, GPIB bus) using fibre optic control lines
- Manufactured with low reflective dielectric material
- Dielectric belt driven rotations
- Use of reliable, long-lasting and maintenance-free bearings

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 Phi axis (elevation) Positioner TD 1.5 - 10:kg

Load capability	max. 10 kg
Height of rotation axis above chamber floor	1.5 m
Material above drive unit	Plastic & reinforced plastics with low dielectric constant
Rotating angle	360°
Rotating speed adjustable	0.5°/s – 15°/s
Positioning accuracy	+/- 0.5°
Motor	DC stepper motor
Drive	Toothed belt
Material of toothed belt	Kevlar reinforced (non-metallic)
Voltage	110 VAC – 230 VAC, 50 Hz / 60 Hz
	single phase
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. 40 kg
Accessories	Power supply cable
	Service manual





Different mounting options for mobile phones, phantom head and tablets available:







Brief description

The Turn Device TD 1.5-10 kg is especially designed for measurements on wireless devices and antennas. Different sized devices can be mounted on the mounting plate or bracket.

The elevation positioner is mounted onto the cover plate of the azimuth positioner.

The TD 1.5-10 kg is usually mounted onto a turntable to have both 360° vertical and horizontal rotation for 3D measurements.

Together with the turntable the system performs three-dimensional over-the-air radiation measurements on handheld wireless devices and antennas.

The measurement height is fixed – standard is 1.5 m above floor level. Other heights are available upon request.

The Turn Device, except for the drive unit, is fabricated from plastic (Rohacell, PVC and reinforced fibreglass). Metal parts are located only in the base plate and the drive mechanism (max. 0.3 m above ground level).

A mounting plate made of Rohacell for tablets and laptops is optionally available on request. Antenna Adapters for all commercially available antennas are available upon request.

All antennas during polarization rotate around their axis to eliminate any elevation errors.

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



Technical data Theta axis (azimuth) Positioner TT1.2WF:

Diameter	1.2 m
Load capability	300 kg
Point Load	50kg (at area of 10 cm x 10 cm)
Height	140 mm
Material cover plate	Laminated wood
Rotating speed adjustable	0.1 rpm – 2.5 rpm
Positioning accuracy	+/- 0.5°
Rotating angle	-200° to 400°
Motor	Synchronous servo motor
Turntable drive	Toothed belt and worm gear
Elevation tolerance	< 3 mm
Voltage	110 VAC – 230 VAC; 50 Hz / 60 Hz;
voitage	single phase
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
Temperature working range	10°C – 35°C
Total weight	approx. 70 kg
Accessories	Service manual
	3 m power supply cable

Brief description

The turntable TT 1.2 WF is especially designed for freestanding installation on surface floor in electromagnetic absorption chambers.

The carrier plate is made of waterproof, laminated and lacquered wood.

A 285 mm diameter opening in the center of the turntable provides the capability to insert power supply for testing.

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







Standard center plate



Example for a customized center plate