maturo GmbH
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Tilt Antenna Mast TAM 6.0-P

Technical Data

Antenna height automatic adjustable from		1.0 to 6.0 m
Total mast height		6.5 m
Load capability	max.	10 kg (when balanced)
For long and heavy antennas a counter weight is required to balancing the load		
Depending on the distance of the antenna centre of gravity		
Material of antenna mast		Plastic + reinforced fibreglass weatherproof
Mast cross-section		100 mm x 100 mm (2 fibreglass tubes)
Base L x W		1.0 m x 0.7 m
Positioning speed adjustable between		2.0 to 20 cm/sec.
Positioning accuracy		± 0.5 cm
Pneumatic Polarisation		0°/90° (vert./hor.)
Positioning time	approx.	3 sec.
Polarisation drive		Pneumatic rotary actuator
Control		Solenoid valve
Pressure	max.	6 bar
Tilt angle automatically adjusted during scan		0° to 45° (depending on distance of EUT)
Tilt speed adjustable between		1° to 7.5 °/sec.
Tilt accuracy		± 0.5°
Motors		Brushless stepper motors 200 W
Interference suppression:		20 dB under limits EN 55022 class B
Current consumption	max.	5A
Voltage		100-240 VAC, 50/60 Hz, single phase
Discharge current		25mA per drive unit (higher in the moment when powering on)
Control cable		Fibre optic lines
Remote control via		IEEE interface (optional Ethernet)
Antenna support drive		3 toothed belts
Material of toothed belts		Kevlar reinforced (non-metallic)
Temperature range		+10 °C...+35 °C
Total weight	approx.	170 kg
Accessories		Interface to NCD Controller 1.5 m power supply cable Service manual

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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Brief description

The Tilt Antenna Mast **TAM 6.0-P** is suitable in magnetic absorption chambers. The antenna mast, with the exception of the drive unit, is fabricated from plastic (PVC and reinforced fibreglass). The TAM 6.0-P has additionally an electrical tilt function from 0° to 45°, which automatically tilts during height scan. The tilting angle can be adjusted easily in accordance with the distance of the antenna to the EUT.

Metal parts are located only in the base plate and the drive mechanism (max. 0.3 m above ground level).
Antenna Adapters for all commercially available antennas are available upon request.
All antennas during polarisation rotate around their axis to eliminate any elevation errors.

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **NCD Controller**.

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