



Tilt Antenna Mast TAM 4.0-P

Technical Data

Antenna Height Automatic Adjustable from Total Mast Height	1.0 to 4.0 m 4.6 m
Positioning Speed Adjustable Between Positioning Accuracy	3.0 to 20 cm/sec. ± 0.5 cm
Polarisation Pneumatically Positioning Time Polarisation Drive Control Pressure	0°/90° Approx. 3 sec. Pneumatic Rotary Actuator Solenoid Valve Max. 6 Bar
Tilt Angle Automatically Adjusted During Scan Tilt Speed Adjustable Between Tilt Accuracy	0° to 45° (depending on distance of EUT) 1° to 7.5°/sec. ± 0.5°
Load Capability Depending on the Distance of the Antenna Centre of Gravity	Max. 10 Kg
Material of Antenna Mast	Plastic + Reinforced Fibreglass Weatherproof
Mast Cross-Section Base L x W	60 mm x 60 mm (2 Fibreglass Tubes) 1.0 m x 0.6 m
Antenna Support Drive Material of Toothed Belts	3 Toothed Belts Kevlar Reinforced (Non-Metallic)
Motor Drive Unit	Brushless Stepper Motors 200 W Shielded and Radio Interference Sup pressed under EN 55022 class B
Control Cable Remote Control via	Fibre Optic Lines IEEE Interface (Optional Ethernet)
Current Consumption Voltage Temperature Range	Max. 5A 208-230VAC, 50/60 Hz, Single Phase -10°C...+35°C
Total Weight	Approx. 100 Kg
Accessories	Interface to NCD Controller 1.5 m Power Supply Cable Service Manual



Rainford EMC Systems Ltd, North Florida Road, Haydock,
St Helens, WA11 9TN, United Kingdom
Tel: +44 (0) 1942 296190 Fax: +44 (0) 1942 275202 email:
sales@rainfordemc.com





Tilt Antenna Mast TAM 4.0-P



Brief Description

The Tilt Antenna Mast **TAM 4.0-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 4.0-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**.



Rainford EMC Systems Ltd, North Florida Road, Haydock,
St Helens, WA11 9TN, United Kingdom
Tel: +44 (0) 1942 296190 Fax: +44 (0) 1942 275202 email:
sales@rainfordemc.com

