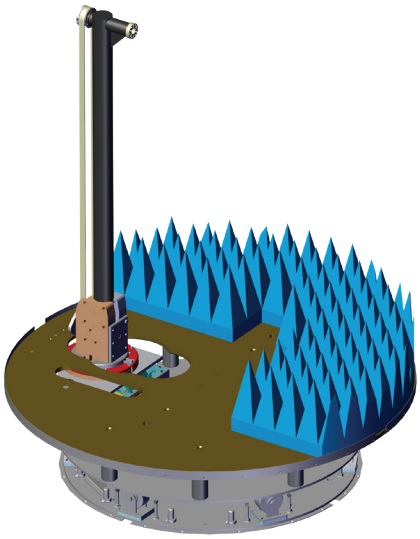
# POSITIONERS MODEL 2117



**MODEL 2117**

- **Fiber Optic Control Lines to Eliminate RF Noise**
- **Variable Speed**
- **Changeable Phi Mast to Match Application and Reduce RF Impact**

**ETS-Lindgren's Model 2117 Medium Duty Multi-Axis Positioner (MAPS)** is designed to provide smooth, accurate rotation of a test object in both theta and phi axes. It is ideal for applications requiring spherical antenna pattern measurements and Total Radiated Power (TRP)/Total Isotropic Sensitivity (TIS) testing of wireless devices.

The Model 2117 is currently in use at multiple CTIA Authorized Test Labs (CATLs), ensuring compliance with industry standards. Available options include the SAM Phantom (head) and ETS-Lindgren's Positioning Controller with GPIB interface and EMQuest™ software for seamless integration and automated control.

### Height

The MAPS positioner system height can be configured to the anechoic chamber so that it provides ideal test performance. Typical test configuration in anechoic chamber is so that the center of the phi axis is at mid height of the chamber. If this positioner is used with existing chamber then the height needs to match the height of the measurement antenna.

### Fiber Optic Travel Limits

The MAPS Positioners operates with proprietary fiber optic limit switches to prevent damage to power and signal cables, powering and controlling the phi axis motor, routed thru the center plate of the theta axis. The travel range can be adjusted from the top of the turntable using a unique system of adjustable limits.

**Standard Accessories** (For All Options)

- 2 Piece 10 m (38.2 ft) Fiberoptic Duplex ST-Multimode Cable
- 2 Piece ST-ST Bulkhead Connectors

**Options**

- Free-Space Mount Kit for Handset
- Free-Space Mount Kit for Laptop
- SAM Phantom Head and/or Hand Mount Kit
- SAM Phantom Chest Mount Kit
- Various Antenna Mounts for Range Calibration
- Custom Connections to AUT (Power, Control, RF, etc.)

# POSITIONERS MODEL 2117

**Technical Specifications**

| | |
|---|---|
| **Electrical** | |
| Voltage and Frequency | 220/230 VAC, 50/60 Hz, IEC 60320 C-14 |
| Current Consumption | 2 x 2A |
| Remote Control | Fiberoptic, Duplex ST-Multimode cable |
| Drive Unit | Shielded assembly. 20dB below CISPR 11 Class B limits |
| Temperature Range | 5-40° C (41-104 ° F) |
| **Physical** | |
| Diameter | 1.6 m (5.25ft) |
| Permissable Distributed Load (Theta) | 250 kg (551lb) |
| Permissable Point Load (Theta) | No point loads under 0.37 $m^2$ (4.0$ft^2$) should exceed 100 kg (220 lb) |
| Height Minimum (Theta) | 11.3 kg (25 lb) |
| RPM Range (Theta) | 37.0 cm (14.5 in) |
| RPM (Phi) | 0.5–2.0 RPM |
| Power Interface for AUT | 1.5–10 RPM |
| RF Interface for AUT | 115/230 VAC, 50/60 Hz, Universal Outlet on Center of Theta Axis |
| Theta Axis Top Material | SMA Rotaty Joint on Center of Theta Axis |
| Angular Positioning Accuracy | +/- 0.5° with EUT Load Centered on Rotation Axis |
| Rotating Angle (Theta) | +/- 0.5° |
| Rotating Angle (Phi) | Limited With Configurable Limit Switches |
| Polarazation Velocity | Continuous |



Information presented is subject to change as product enhancements are made.
Contact ETS-Lindgren Sales Department for current specifications.

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