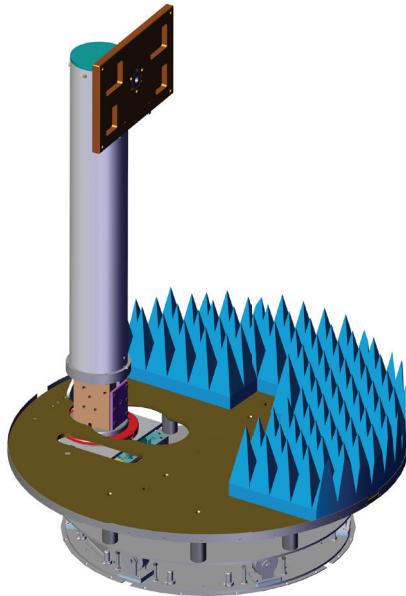


# POSITIONERS MODEL 2122



## MODEL 2122

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

**ETS-Lindgren's Model 2122 Heavy Duty Multi-Axis Positioning System (MAPS)** is a heavy-duty multi-axis positioning system engineered to deliver smooth and precise rotation of test objects in both theta and phi axes. Optimized for measuring spherical antenna patterns and Total Radiated Power (TRP) of wireless devices, the Model 2122 is ideal for high-load and demanding test environments.

This robust system is deployed in several CTIA Authorized Test Labs (CATLs), supporting rigorous wireless performance testing and compliance verification.

## 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

- Mount for 19 in Rack Mountable AUT
- Custom Mounts for Specific AUT
- Various Antenna Mounts for Range Calibration
- Custom Connections to AUT  
(Power, Control, RF, etc.)

# POSITIONERS MODEL 2122

## 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)
Permissible Distributed Load (Theta)	250 kg (551 lb)
Permissible Point Load (Theta)	No point loads under 0.37 m <sup>2</sup> (4.0ft <sup>2</sup> ) should exceed 100 kg (220 lb)
Height Minimum (Theta)	34 kg (75 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
Positioning Accuracy	Marine Grade Plywood
Rotating Angle (Theta)	+/- 0.5°
Rotating Angle (Phi)	Limited With Configurable Limit Switches
Polarazation Velocity	Continuous