

AR-350-2P

Dual-axis servo turntable

This dual-axis servo turntable comprises a pitch axis system, an azimuth axis system and a servo control system. It is capable of high-precision angular positioning and high-speed motion, and is used for performance testing and signal tracking simulation of equipment such as antennas and radar systems.



Product Features

- Pitch: -10° to 90° , azimuth: $\pm 170^{\circ}$
- Static repeatability: $\leq 30 \mu\text{rad}$
- Dynamic accuracy: $\leq 50 \mu\text{rad}$
- Orthogonality of axes: just $20 \mu\text{rad}$
- Maximum angular acceleration: $10^{\circ}/\text{s}^2$
- Platform weight: $\leq 400 \text{ kg}$

Suitable scenarios

Suitable for use in the antenna and radar industries. Specifically used for angle calibration, servo tracking performance testing and signal simulation of radar antennas, seeker heads and communication antennas.

Technical Specifications

Parameter categories	Parameter items	Parameter values
Accuracy Performance	Angular position repeatability	$\leq 30 \mu\text{rad}$ (3σ)
	Tracking/pointing accuracy	$\leq 50 \mu\text{rad}$ (3σ)
Dynamic Performance	Maximum angular velocity	$\geq 1^\circ/\text{s}$ (maintaining accuracy)
	Maximum angular acceleration	$10^\circ/\text{s}^2$
	Range of motion	Pitch: -10° to 90° Azimuth: $\pm 170^\circ$
Mechanical Specifications	Load capacity	$\geq 20 \text{ kg}$
	Table diameter/dimensions	350 mm