

ID-240-2P

Portable Vertical/Horizontal Turntable

This turntable is a portable model designed for loads of up to 20 kg. It consists primarily of a turntable base and a levelling mechanism, and is suitable for both vertical and horizontal use. It is capable of high-precision angular positioning and continuous rotation with a resolution of 0.0001° .



Product Features

- Dual-position (standing and lying down) with flexible switching
- Lightweight, $\leq 20\text{kg}$
- High load capacity, up to 10kg
- High positioning accuracy, repeatability $\pm 1''$
- Wide speed range, $\pm 0.01^\circ/\text{s}$ to $\pm 300^\circ/\text{s}$
- Continuous omnidirectional movement, 360° unlimited rotation

Suitable scenarios

Suitable for applications in the defence sector—including inertial testing, aerospace and armaments—as well as high-end manufacturing. Specifically used for the testing and calibration of inertial components such as fibre-optic gyroscopes and accelerometers.

Technical Specifications

Parameter categories	Parameter items	Parameter values
Accuracy Performance	Angular Positioning Accuracy	$\pm 2''$
	Angular Positioning Repeatability	$\pm 1''$
	Speed Stability	5×10^{-5} (averaged over 360°)
Dynamic Performance	Maximum Angular Velocity	$\pm 300^\circ/\text{s}$
	Maximum Angular Acceleration	$100^\circ/\text{s}^2$
Range of Motion	Azimuth/Pitch Movement Range	360° continuous (two axes)
Mechanical Specifications	Load Capacity	10 kg
	Table Diameter/Dimensions	$\Phi 240$ mm
Environmental Protection	Protection Rating	Ip20
	Operating Temperature	0°C to +40°C
Power and Communications	Power Supply Requirements	AC 220 V $\pm 10\%$ / 50 Hz
	Control Interface	Rs232 / Ethernet