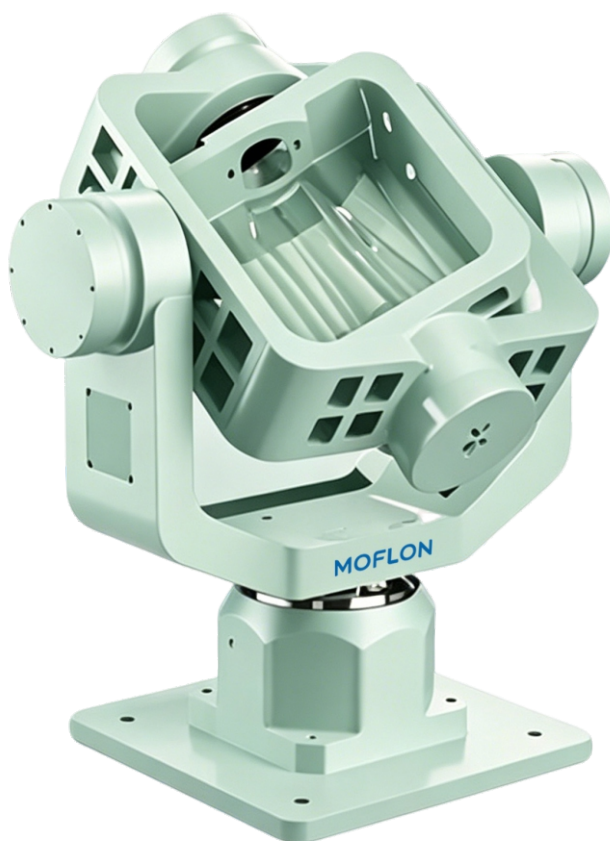


ID-300-3-02

Compact Frame-Type Three-Axis Electric Turntable

This compact, frame-type, three-axis electric turntable consists primarily of a three-axis frame structure, a turntable surface and a drive control system. Its function is to provide the rate and position testing capabilities required for research and testing, production debugging, maintenance and calibration of fibre-optic gyroscopes, MEMS gyroscopes and IMUs.



Product Features

- Stable and reliable performance
- Simple and convenient to operate
- Lightweight and easy to carry
- Low purchase cost
- High three-axis rotation accuracy ($\pm 5''$)
- Wide speed range (0.001–300°/s)

Suitable scenarios

Suitable for the inertial technology sector, for the research and development, testing, production commissioning, and maintenance and calibration of fibre-optic gyroscopes, MEMS gyroscopes and IMUs.

Technical Specifications

Parameter categories	Parameter items	Parameter values
Accuracy Performance	Speed stability	$\pm 15''$
	Maximum angular velocity	$\omega \leq 1^\circ/\text{s}: 2 \times 10^{-3}$ $1-10^\circ/\text{s}: 2 \times 10^{-4}$ $\geq 10^\circ/\text{s}: 2 \times 10^{-5}$
Dynamic Performance	Maximum angular acceleration	Inner frame: $\pm 300^\circ/\text{s}$ Middle frame: $\pm 200^\circ/\text{s}$ Outer frame: $\pm 200^\circ/\text{s}$
	Range of motion	Inner frame: $> 200^\circ/\text{s}^2$ Middle frame: $> 100^\circ/\text{s}^2$ Outer frame: $> 100^\circ/\text{s}^2$
	Range of motion	Three-axis infinite (continuous rotation)
Mechanical Specifications	Load capacity	15 kg
	Table diameter/dimensions	Approx. $\Phi 300$ mm
Environmental Protection	Protection rating	Ip20
	Operating temperature	$20^\circ\text{C} \pm 8^\circ\text{C}$
Power and Communications	Power supply requirements	$220\text{VAC} \pm 10\%$ / 50Hz
	Control interface	Rs232