

ID-115-2

Dual-axis rotary stage

This dual-axis U-T structure rotary table features 360° continuous rotation of the inner ring and $\pm 45^\circ$ swivelling of the outer ring; it is primarily used to support loads and achieve high-precision indexing and high-speed motion.



Product Features

- Dual-axis U-T structure
- Continuous rotation of the inner ring
- $\pm 45^\circ$ swing of the outer ring
- Rotation speed: 0.01–500°/s
- Positioning accuracy: $\pm 10''$
- Load capacity: ≥ 5 kg; lightweight

Suitable scenarios

Suitable for inertial navigation and aerospace testing. Specifically used for the angular position and rate calibration and simulation of test objects or sensors mounted in a micro three-jaw chuck.

Technical Specifications

Parameter categories	Parameter items	Parameter values
Accuracy Performance	Angular position accuracy	$\pm 10''$
	Angular position repeatability	$\pm 3''$
	Speed smoothness	5×10^{-5}
Dynamic Performance	Maximum angular velocity	$500^\circ/\text{s}$
	Range of motion	Inner ring: 360° continuous; Outer ring: $\pm 45^\circ$
Mechanical Specifications	Load capacity	$\geq 5 \text{ kg}$
	Table diameter/dimensions	$\leq \Phi 115 \text{ mm}$
Environmental Protection	Operating temperature	$20^\circ\text{C} \pm 8^\circ\text{C}$
Power and Communications	Power supply requirements	$220\text{VAC} \pm 10\% / 50\text{Hz}$
	Control interface	Ethernet/serial port