
ID-300-1

Single-axis turntable

A single-axis rotary mechanism comprising a super-hard aluminium table, capable of continuous, infinitely variable angular movement, designed to achieve high-precision angular positioning and controlled rotational speed.



Product Features

- Work surface made of ultra-hard aluminium
- Load capacity ≥ 10 kg
- Work surface diameter: 300 mm
- Continuous, infinite angular positioning
- Angular positioning accuracy: $\pm 3''$
- Maximum rotational speed: $200^\circ/\text{s}$

Suitable scenarios

Suitable for the automation and test and measurement industries, specifically for high-precision single-axis angular positioning and rotational testing of equipment with a load of up to 10 kg.

Technical Specifications

Parameter categories	Parameter items	Parameter values
Accuracy Performance	Angular position accuracy	$\pm 3''$
	Angular position repeatability	$\pm 1.5''$
	Tracking/pointing accuracy	$\pm 5''$
	Speed smoothness	5×10^{-5} (averaged over 360°)
Dynamic Performance	Maximum angular velocity	200°/s
	Maximum angular acceleration	100°/s ²
	Range of motion	Continuous, unlimited
Mechanical Specifications	Load capacity	≥ 10 kg
	Table diameter/dimensions	$\Phi 300$ mm
Environmental Protection	Protection rating	IP20
	Operating temperature	0°C to +40°C
Power and Communications	Power supply requirements	220 V $\pm 10\%$ / 50 Hz
	Control interface	Fibre optic / Ethernet