

DESCRIPTIONS

>TWO AXIS TURNTABLE

The two-axis turntable is a kind of precision test equipment, which can provide the angular position, angular rate and angular acceleration motion excitation of two orthogonal axes to realize the test and evaluation of the measured parts such as gyro, inertial measurement device and accelerometer, and can also realize the dynamic motion simulation, servo, simulation and angular vibration of the two rotation directions in space.

- 1) Control system: high-performance control unit, high-precision Angle measuring system, PWM digital servo amplifier, direct drive servo motor.
- 2) Main components: support, drive motor, power amplifier, Angle measuring element, AD/DA card, etc. (all use high-performance products).
- 3) Structure: vertical, horizontal.



Index	2LT300	2LT400	2LT500	2LT600	2LT700	Unit
Structural form	Vertical horizontal rotation					/
Mesa material	Stainless steel/aluminum alloy optional					Kg
Maximum load weight	30~50	30~50	30~50	30~60	50~70	mm(Optional)
Table size	Φ300	Φ400	Φ500	Φ600	Φ700	mm
Mesa flatness	0.02	0.02	0.05	0.05	0.05	mm
Table height	400	540	640	740	840	mm
Rotation accuracy	±1~3	±1~3	±1~3	±1~3	±1~3	" (Optional)
Angular position range	±0~ ±360	±0~ ±360	±0~ ±360	±0~ ±360	±0~ ±360	°
Angular position accuracy	±1~3	±1~3	±1~3	±1~3	±1~3	" (Optional)
Angular resolution	0.0001	0.0001	0.0001	0.0001	0.0001	°
Angular rate range	0.001~10000	0.001~2000	0.001~1500	0.001~1000	0.001~1000	°/s
Angular rate accuracy	$\omega < 1$ $1 < \omega < 10$ $10 < \omega$	$\omega < 1$ $1 < \omega < 10$ $10 < \omega$	$\omega < 1$ $1 < \omega < 10$ $10 < \omega$	$\omega < 1$ $1 < \omega < 10$ $10 < \omega$	$\omega < 1$ $1 < \omega < 10$ $10 < \omega$	°/s
Speed smoothness	1×10^{-3} 1×10^{-4} 5×10^{-5}	1×10^{-3} 1×10^{-4} 5×10^{-5}	1×10^{-3} 1×10^{-4} 5×10^{-5}	1×10^{-3} 1×10^{-4} 5×10^{-5}	1×10^{-3} 1×10^{-4} 5×10^{-5}	1° Average 10° Average 360° Average
Maximum angular acceleration	Inner10000 Outer3000	Inner14500 Outer2000	Inner13000 Outer1000	Inner12000 Outer500	Inner12000 Outer500	
Rocking function	Optional	Optional	Optional	Optional	Optional	°/s ²
Rate resolution	0.0001	0.0001	0.0001	0.0001	0.0001	customizable
Slip ring number	10~72	10~72	10~72	10~72	10~72	Customizable
System bandwidth	5~80Hz	5~80Hz	5~100Hz	5~100Hz	5~100Hz	°
Slip-ring voice	≤±0.03	≤±0.03	≤±0.03	≤±0.03	≤±0.03	Optional
Leakage flux	±0.5	±0.5	±0.5	±0.5	±0.5	Hz(Optional)

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