

## DESCRIPTIONS

### > SINGLE AXIS TURNTABLE

Single-axis multi-function turntable is a mature and high precision single-axis speed measuring equipment, which is mainly used in various position, speed and swing test and detection of rate gyro and its inertial measurement combination. After selecting the temperature control box, temperature control system, auxiliary shaft and other parts, the turntable can also be applied to the performance test of inertial navigation devices and inertial navigation systems at high and low temperatures. The turntable supporting computer has the ability to store the data related to the operation of the turntable, such as: time, turntable position, Angle rate, real-time value of the temperature of the table, and has the ability to output data through the serial port, and can be operated by an external computer (through the serial port) to control the turntable and temperature.



Index	1LT300	1LT500	1LT700	1LWT300	1LWT500	1LWT700	Unit
Structural form	Vertical	Vertical	Vertical	Vertical & Horizontal Switchable			/
Maximum load weight	30	30/50	50/70 <small>Optionl</small>	Optional30	30/50 <small>Optionl</small>	50/70 <small>Optionl</small>	Kg
Table size	Φ300	Φ500	Φ700	Φ300	Φ500	Φ700	mm
Mesa flatness	0.02	0.03	0.03	0.02	0.03	0.03	mm
Table height	350	650	850	350	650	850	mm
Face runout	0.05	0.05	0.05	0.05	0.05	0.05	mm
Rotation accuracy	±1~3	±1~3	±1~3	±1~3	±1~3	±1~3	"
Angular position range	±0~ ±360	±0~ ±360	±0~ ±360	±0~ ±360	±0~ ±360	±0~ ±360	°
Angular position accuracy	±1~3	±1~3	±1~3	±1~3	±1~3	±1~3	"
Angular resolution	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	°
Angular rate range	0.001~10000	0.001~3000	0.001~3000	0.001~10000	0.001~3000	0.001~2000	°/s
Angular rate accuracy	$\omega < 1$ $1 < \omega < 10$ $10 < \omega$	$\omega < 1$ $1 < \omega < 10$ $10 < \omega$	$\omega < 1$ $1 < \omega < 10$ $10 < \omega$	$\omega < 1$ $1 < \omega < 10$ $10 < \omega$	$\omega < 1$ $1 < \omega < 10$ $10 < \omega$	$\omega < 1$ $1 < \omega < 10$ $10 < \omega$	°/s
Speed smoothness	$1 \times 10^{-3}$ $1 \times 10^{-4}$ $5 \times 10^{-5}$	$1 \times 10^{-3}$ $1 \times 10^{-4}$ $5 \times 10^{-5}$	$1 \times 10^{-3}$ $1 \times 10^{-4}$ $5 \times 10^{-5}$	$1 \times 10^{-3}$ $1 \times 10^{-4}$ $5 \times 10^{-5}$	$1 \times 10^{-3}$ $1 \times 10^{-4}$ $5 \times 10^{-5}$	$1 \times 10^{-3}$ $1 \times 10^{-4}$ $5 \times 10^{-5}$	1° Average 10° Average 360° Average
Max angular acceleration	10000	4500	3000	10000	4500	3000	°/s <sup>2</sup> (Optional)
Rocking function	Optional	Optional	Optional	Optional	Optional	Optional	/
Rate resolution	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	°
Slip ring number	10~50	10~50	10~50	10~50	10~50	10~50	(Optionl)
System bandwidth	5~100Hz	5~80Hz	5~80Hz	5~100Hz	5~80Hz	5~50Hz	Hz(Optionl)
Slip-ring voice	≤ ±0.03	≤ ±0.03	≤ ±0.03	≤ ±0.03	≤ ±0.03	≤ ±0.03	V
Leakage flux	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	mT
MTBF	≥ 2000	≥ 2000	≥ 2000	≥ 2000	≥ 2000	≥ 2000	h