

ST 3100 SERIE

THREE AXIS MOTION SIMULATOR

- Brushless motors all axis
- Original heavy duty base
- Proprietary base design
- Reverse cantilever axis
- No limited resolution optical encoders
- Very high speed computer interfaces

Options:

- Temperature chamber:
- 55°C to +185°C
- Vacuum and climatic chamber: 1.10^{-6} Torr
- Customized electrical slip-rings
- Optical fiber rotary joint



The three axis table series ST 3100 is a high accuracy position and rate system designed for the test and calibration of high performances inertial guidance systems, combined technology guidance equipments, inertial grade sensors.

Its brushless technology allows for large servo bandwidth and high dynamic response also does minimize maintenance cost.

ST3157

SPECIFICATION

	Inner Axis	Middle axis	Outer Axis	Units
Payload				
Mass	100			kg
Height	700			mm
Width	700			mm
Depth	900			
Geometry				
Wobble	± 2	± 2	± 1	Arc second
Orthogonality		2		Arc second
Intersection		1		mm
Rotation	continuous	continuous	continuous	
Position				
Accuracy	± 1	± 1	± 1	Arc second
Command Increment	0.036	0.036	0.036	Arc second
Repeatability	± 0.2	± 0.2	± 0.2	Arc second
Rate				
Range	± 1500	± 1000	± 600	°/s
Accuracy	± 0.001	± 0.001	± 0.001	%
Command increment	0.00001	0.00001	0.00001	°/s
Stability				%
Over 360°	0.0001	0.0001	0.0001	%
Over 10°	0.001	0.001	0.001	%
Over 1°	0.05	0.05	0.05	%
Dynamic				
Peak torque	830	4200	13000	Nm
Nominal torque	200	1000	3500	Nm
Inertia (no load)	13	117	730	m2kg
No load Peak acceleration	3900	2000	1000	°/s ²
Servo bandwidth	50	25	25	Hz
Electrical slip-rings				
Alternative optional configuration on demand	96 channels 2A + 14 channels 10 A			
Computer Interfaces				
	RS232; IEEE 488, Ethernet, High speed Scramnet			

ACTIDYN SYSTEMES ALSO MANUFACTURES THESE EQUIPMENTS TO BETTER SERVE YOU

