Two Axis Motion Simulator Series

MODEL		TES-S_3-3	TES-S_4-4	TES-IT-H_33-3	TES-IT-H_33-3-TG	TES-IT-H_44-4	TES-IT-H_44-4-TG	TES-UT-H_44-7	TES-UT-H_44-7-TM
									
Specifications*									
Description		Single axis motion simulator 300mm module size with manually operated tilt stand.	Single axis motion simulator 400mm module size with manually operated tilt stand.	Two axis motion simulator with 300mm module size.	Two axis motion simulator with 300mm module size and gas cooled temperature chamber.	Two axis motion simulator with 400mm module size.	Two axis motion simulator with 400mm module size and gas cooled temperature chamber.	Two axis gimbal motion simulator with 400mm module size.	Two axis gimbal motion simulator with 400mm module size and mechanical cooled temperature chamber.
Nominal Load		20kg	40kg	20kg	20kg	40kg	40kg	60kg	60kg
Tabletop Dimension		Ø 300mm	Ø 420 mm	Ø 300 mm	Ø 280 mm	Ø 420 mm	Ø 400 mm	Ø 660 mm	Ø 660 mm
Position Accuracy	Inner Axis	≤± 1 arcsec RSS or ≤± 3 arcsec PP							
	Outer Axis	--	--	≤± 1 arcsec RSS or ≤± 3 arcsec PP					
Position Range	Inner Axis	±(0.00000 to 359.99999) deg unlimited rotation							
	Outer Axis	-5 to 185 deg		±(0.00000 to 359.99999) deg unlimited rotation					
Rate Stability‡	Inner Axis	≤1ppm							
	Outer Axis	--	--	≤1ppm					
Rate Range	Inner Axis	±(0.00001 to 10'000) deg/s						±(0.00001 to 1'000) deg/s	
	Outer Axis	--	--	±(0.00001 to 1'000) deg/s					
Acceleration△	Inner Axis	≥ 10'000 deg/s²						≥ 5'000 deg/s²	
	Outer Axis	--	--	≥ 1'000 deg/s²	≥ 500 deg/s²	≥ 500 deg/s²	≥ 500 deg/s²	≥ 250 deg/s²	≥ 250 deg/s²
Wobble	Inner Axis	≤± 1 arcsec RSS or ≤± 3 arcsec PP							
	Outer Axis	--	--	≤± 1 arcsec RSS or ≤± 3 arcsec PP					
Sliprings		2 x 5A (S) 240VDC 12 x 2A (S) 150VDC 12 x 2A (TP) 150VDC						4 x 10A (SS) 400VDC 24 x 2A (SS) 150VDC 30 x 2A (TSP) 150VDC	
Temperature Range		--	---	--	-60°C to 100°C	---	-60°C to 100°C	--	-60°C to 100°C
Temperature Gradient†		--	--	--	Heat: ≥ 3°C/min Cool: ≤ -3°C/min	--	Heat: ≥ 3°C/min Cool: ≤ -3°C/min	--	Heat: ≥ 4°C/min Cool: ≤ -3°C/min
Interface		Acuitas Control System (ACS)							
User Software		Acuitas Motion Studio (AMS) or Acuitas Device Interface (ADI), LabView Driver (optional)							
Options		- Custom slipring, - Custom tabletop, - North alignment kit, - Slow motion clamp, - On-site installation, - Customer acceptance test (CAT) at Acuitas, - ADI High speed licence							
Model Options		- Digital encoder for tilt axis	- Digital encoder for tilt axis		- CO2 manifold		- CO2 manifold		- Water cooled compressor unit

*All given specifications are maximum values

△ These specifications are measured without payload

†Between **min+10%** and **max-10%** of temperature range (IEC 60068-3-5:2001)

‡ Over a full rotation of 360 degree

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