

Single Axis Motion Simulator Series

MODEL TES-V/H_2-3 TES-V/H_3-3 TES-V/H_4-4 TES-V/H_3-3-TM TES-V/H_4-4-TM



Specifications*

Description	Compact single axis motion simulator. This model is also available in a calibrated version with higher position accuracy. The axis can be changed from horizontal to vertical and vice versa by the end user	Single axis motion simulator with 300mm module size. Available in vertical and horizontal versions	Single axis motion simulator with 400mm module size. Available in vertical and horizontal versions	Single axis motion simulator with 300mm module size and free standing temperature chamber. Available in vertical and horizontal versions and as a combination	Single axis motion simulator with 400mm module size and free standing temperature chamber. Available in vertical and horizontal versions and as a combination
Nominal Load	20 kg	20 kg	40kg	20 kg	40 kg
Tabletop Dimension	Ø 300 mm	Ø 300 mm	Ø 420 mm	Ø 300 mm	Ø 420 mm
Position Accuracy	≤± 15 arcsec RSS or ≤± 30 arcsec PP (uncalibrated version) ≤± 2 arcsec RSS or ≤± 6 arcsec PP (calibrated version)	≤± 1 arcsec RSS or ≤± 3 arcsec PP			
Position Range	±(0.0000 to 359.9999) deg unlimited rotation	±(0.00000 to 359.99999) deg unlimited rotation			
Rate Stability†	≤10ppm	≤1ppm			
Rate Range	±(0.0001 to 2'000) deg/s	±(0.00001 to 10'000) deg/s			
Acceleration^Δ		≥ 10'000 deg/s ²			
Wobble	≤± 2 arcsec RSS or ≤± 6 arcsec PP	≤± 1 arcsec RSS or ≤± 3 arcsec PP			
Sliprings		2 x 5A (S) 240VDC 12 x 2A (S) 150VDC 12 x 2A (TP) 150VDC			
Temperature Range	--	--	--	-60°C to 125°C	-60°C to 125°C
Temperature Gradient†	--	--	--	Heat: ≥ 4°C/min Cool: ≤ -3°C/min	Heat: ≥ 4°C/min Cool: ≤ -3°C/min
Interface	Ethernet	Acuitas Control System (ACS)			
User Software	Acuitas Motion Studio (AMS), Acuitas Device Interface (ADI)	Acuitas Motion Studio (AMS), Acuitas Device Interface (ADI), LabView Driver (optional)			
Options	- Custom slipring, - Custom tabletop, - On-site installation, - Customer acceptance test (CAT) at Acuitas, - Balancing unit for high speed application, - ADI High speed licence				
Model Options	--	--	--	- Water cooled compressor unit	

*All given specifications are maximum values

^Δ 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