

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 $\leq \pm 1$ arcsec RSS or $\leq \pm 3$ arcsec PP | | | | | | | |
| Position Range | Outer Axis $\leq \pm 1$ arcsec RSS or $\leq \pm 3$ arcsec PP | | | | | | | |
| Rate Stability† | Inner Axis $\pm(0.00000$ to $359.99999)$ deg unlimited rotation | | | | | | | |
| Rate Range | Outer Axis $\pm(0.00000$ to $359.99999)$ deg unlimited rotation | | | | | | | |
| Acceleration^Δ | Inner Axis ≤ 1 ppm | | | | | | | |
| Wobble | Outer Axis ≤ 1 ppm | | | | | | | |
| Sliprings | Inner Axis $\pm(0.00001$ to $10'000)$ deg/s | | | | | | | |
| Temperature Range | Outer Axis $\pm(0.00001$ to $1'000)$ deg/s | | | | | | | |
| Temperature Gradient† | Inner Axis $\geq 10'000$ deg/s ² | | | | | | | |
| Interface | Outer Axis $\geq 1'000$ deg/s ² | | | | | | | |
| User Software | Inner Axis $\leq \pm 1$ arcsec RSS or $\leq \pm 3$ arcsec PP | | | | | | | |
| Options | Outer Axis $\leq \pm 1$ arcsec RSS or $\leq \pm 3$ arcsec PP | | | | | | | |
| Model Options | 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 | | | | | | | |
| | -60°C to 100°C | | | | | | | |
| | Heat: $\geq 3^{\circ}\text{C}/\text{min}$ Cool: $\leq -3^{\circ}\text{C}/\text{min}$ | | | | | | | |
| | Acuitas Control System (ACS) | | | | | | | |
| | Acuitas Motion Studio (AMS) or Acuitas Device Interface (ADI), LabView Driver (optional) | | | | | | | |
| | - Custom slipring, - Custom tabletop, - North alignment kit, - Slow motion clamp, - On-site installation, - Customer acceptance test (CAT) at Acuitas, - ADI High speed licence | | | | | | | |
| | - Digital encoder for tilt axis | | | | | | | |
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| | - CO2 manifold | | | | | | | |
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| | - 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