

Multi-Axis Systems Specifications



Systems
&
Solutions

Engineered
vibration testing
solutions for
improved
product quality.

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CUBE₁
0-250 Hz
5 Degrees of Freedom



Mantis₁
0-100 Hz
6 Degrees of Freedom



Tensor₁
TE6-900
10-5,000 Hz
6 Degrees of Freedom

Physical Properties	MAST	CUBE 1		CUBE 2		CUBE 3		TENSOR
				Standard	Long Stroke			
Overall Dimensions								
Length	2.5m	1.22m	1.22m	1.22m	1.22m	1.22m	1.22m	1.6m
Width	2.0m	1.22m	1.22m	1.22m	1.22m	1.22m	1.22m	1.2m
Height	2.5m	1.15m	1.4m	1.15m	1.4m	1.15m	1.4m	1.0m
Shipping Weight	800kg	2720kg	2950kg	2720kg	2950kg	2720kg	2950kg	1225kg(2700lbs)
Table Dimensions								
Top Surface	1.5mx2.1m	0.81x0.81m	0.81x0.81m	0.81x0.81m	0.81x0.81m	0.81x0.81m	0.81x0.81m	0.2m x 0.2m
Side Surface (s)	N/A	0.81x0.51m	0.81x0.61m	0.81x0.51m	0.81x0.61m	0.81x0.51m	0.81x0.61m	N/A
Table Mass	1136kg	450kg	590kg	450kg	590kg	450kg	590kg	4.0kg
Table First Frequency	250Hz	350Hz	350Hz	350kg	350kg	350kg	350kg	2030Hz

MAVS - Multi-Axis Vibration System

(Other multi-axis systems available upon request.) Note: * Team Corporation also manufactures Bi Axial Systems-For sequential and simultaneous vibration.

SYSTEM	MAST	CUBE 1		CUBE 2		CUBE 3		TENSOR TE6-900
Table Dimensions Top Surface Side Surface Table Mass Table first frequency	1.5m x 2.1m N/A 1136kg 250Hz	Standard 0.81x0.81m 0.81x0.51m 450kg 350kg	Long Stroke 0.81x0.81m 0.81x0.61m 590kg 350kg	Standard 0.81x0.81m 0.81x0.51m 450kg 350kg	Long Stroke 0.81x0.81m 0.81x0.61m 590kg 350kg	Standard 0.81x0.81m 0.81x0.51m 450kg 350kg	Long Stroke 0.81x0.81m 0.81x0.61m 590kg 350kg	0.2m x 0.2m N/A 4.1 kg 2030Hz
Operational Frequency Range Test Frequency range Max Frequency-Peak Force Max Recommended payload	0-200Hz 0-100Hz 650kg	0-250Hz 0-250Hz 136kg	0-250Hz 0-250Hz 136kg	0-250Hz 0-130Hz 450kg	0-250Hz 0-130Hz 450kg	0-250Hz 0-250Hz 450kg	0-250Hz 0-250Hz 450kg	10-5,000Hz 10-5,000Hz 4.0kg
Translation Performance Vertical Displacement Velocity Acceleration (with max payload) Force/Axis	150mm 1.5m/sec 5.6 g 98kN	45mm 0.4m/sec 2.1 g 13kN	96mm 0.4m/sec 1.5 g 13kN	45mm 0.96m/sec 6.0 g 62kN	96mm 0.96m/sec 5.1 g 62kN	45mm 0.96m/sec 6.0 g 62kN	96mm 0.96m/sec 5.1 g 62kN	13mm 1500mm/sec 10 g 900N
Lateral Displacement Velocity Acceleration (with max payload) Force/Axis	150mm 1.5m/sec 3.8 g 6.7kN	45mm 0.4m/sec 2.0 g 13kN	45mm 0.4m/sec 1.9 g 13kN	45mm 0.96m/sec 3.2 g 13kN	45mm 0.96m/sec 2.7 g 13kN	45mm 0.96m/sec 3.2 g 62kN	45mm 0.96m/sec 3.3 g 62kN	13mm 1500mm/sec (60in/sec) 10 g 900N
Longitudinal Displacement Velocity Acceleration (with max payload) Force/Axis	150mm 1.1m/sec 3.8 g 67kN	45mm 0.4m/sec 3.0 g 13kN	45mm 0.4m/sec 2.5 g 13kN	45mm 0.96m/sec 5.2 g 62kN	45mm 0.96m/sec 4.0 g 62kN	45mm 0.96m/sec 5.2 g 62kN	45mm 0.96m/sec 4.0 g 62kN	12.5mm 1500mm/sec 10 g 900N
Rotational Performance Roll Displacement Pitch Displacement Yaw Displacement	+/-8.5 degs +/-6.8 degs +/-8.5 degs	+/-6 degs +/-6 degs +/-6 degs	+/-4 degs +/-4 degs +/-6 degs	+/-6 degs +/-6 degs +/-6 degs	+/-4 degs +/-4 degs +/-6 degs	+/-6 degs +/-6 degs +/-6 degs	+/-4 degs +/-4 degs +/-6 degs	+/- 5.0 degs +/- 5.0 degs +/- 5.0 degs
Head Expanders Available CEH-48 Dimensions CEH-60 Dimensions	NA NA NA NA	1.2m x 1.2m 1.5m x 1.5m		1.2m x 1.2m 1.5m x 1.5m		1.2m x 1.2m 1.5m x 1.5m		NA NA NA NA
Thermal Protection Standard With Thermal barriers Heat Load At -40C At 121C	4C to 65C -40C to 121C 0 kW 0 kW	4C to 65C -40C to 121C 5.9kW -3.5kW		4C to 65C -40C to 121C 5.9kW -3.5kW		4C to 65C -40C to 121C 5.9kW -3.5kW		4C to 65C -40C to 121C 0 kW 0 kW