

# Multi-Axis Systems

Systems  
&  
Solutions

Engineered  
vibration testing  
solutions for  
improved  
product quality.

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**Team Corporation is a pioneer in the field of Multi-Axis vibration test systems.**

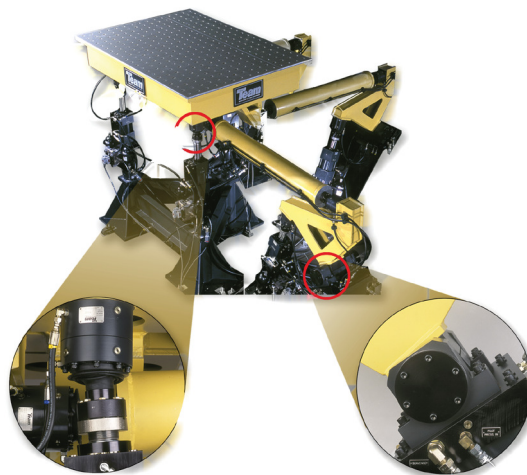
Replication of real world environments demands the use of systems that realistically reproduce actual field conditions. Multi-axis vibration environments require multi-axis systems to replicate them.

Historically, the lack of effective multi-axis hardware and control software has limited the availability and capability of multi-axis test systems. By applying lessons learned in other vibration test environments and using time proven technologies in innovative ways, *Team Corporation* has created a suite of multi-axis test systems that accommodate a range of test articles with different physical and test environment needs for use in automotive product testing.

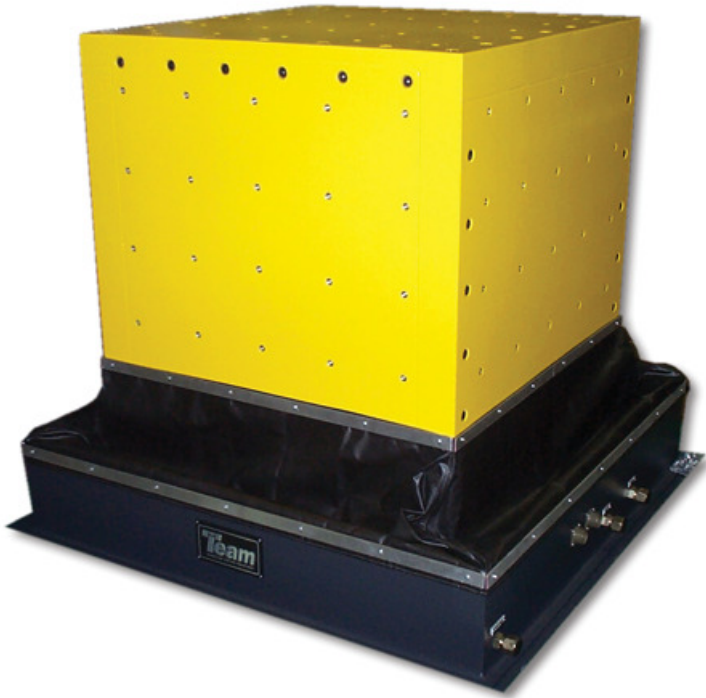
# Mantis™

- **Frequency 0-100Hz**
- **Force Ratings up to 150 kN**
- **Single Axis to 6 Axis Vibration**
- **Displacements up to 150mm**
- **Table Size 1.5m x 2.1m**
- **Friction Free Hydrostatic bearings**
- **Hydrostatic Bearings for Bell Cranks**
- **Hydrostatic HydraBall Connections on all Actuators**
- **Minimal Maintenance**

Performance Characteristics	MANTIS™	CUBE™	Electro-dynamic Systems
Degrees of Freedom	6	6	6
Frequency Bandwidth	100Hz	250Hz	5000Hz
Displacement Pk-Pk	150mm	96mm vert 45mm horz	Shaker Dependant
Payload, typical	50-2000Kg	25-500Kg	Shaker Dependant
Max. force rating	150 kN	62kN	Shaker Dependant



General performance data for *Team* multi-axis systems.



# **CUBE**™

- Frequency 0 - 250Hz
- Force Ratings up to 62 kN
- Single Axis to 6 Axis Vibration
- Displacements up to 96mm (vertical)
- Quiet - Fully Enclosed Mechanisms
- Compact - 1.2m x 1.2m
- Friction Free Hydrostatic Bearings
- Use up to Five Test Surfaces Simultaneously
- Man Rated Systems Available

## **Tensor**™

- Permits either sequential or simultaneous excitation of 6 axis
- Uses 12 electrodynamic shakers with Integrated Cross Coupling Unit (ICCU)
- ED shakers, ICCU and table structure air isolated from the floor
- 10 Hz to 5 kHz frequency band
- 200 lbf sine and 200 lbf random in each
- 8 x 8 inches standard table
- 30g bare table acceleration
- 60 inches/sec velocity
- 0.5 inches peak-to-peak displacement
- Hydraulic power supply internal to equipment





### U.S. Headquarters

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