

# Tensor TE6-900

## Multi-axis, High Frequency Vibration Test System

TE6-900 is a fully contained multi-axis vibration test system capable of precise control of all six degrees of freedom through a 3 kHz bandwidth. The system can reproduce real world vibration environments, by simultaneously exciting all three linear translations as well as all three rotations, to a frequency level never before achieved. This unprecedented performance has been made possible through the use of *Team Corporation's* expertise in hydrostatic bearing design and multi-axis system engineering.



### Features:

- Simultaneous or sequential excitation of X, Y, and/or Z axes
- Complete control of rotations around all axes
- Bandwidth from 10 through 3 kHz
- 20 Grms on nominal payload
- Fully contained system (electrical power only requirement)

### Applications:

- Accurate replication of true, real-world vibration environments in all 6DoF
- Accelerated Durability, Life Cycle and Fatigue cycling
- Precise Product Development investigation
- Rapid screening of electrical components and modules
- Addresses new multi-axis testing protocol in MIL STD 810(G)

# Team Corporation's latest addition to the TENSOR™ Family of Multi-Axis Test Systems Provides Unmatched Performance in High-Frequency, Simultaneous Excitation

Providing the most realistic representation of field conditions, multi-axis test systems have traditionally been limited by frequency response and excessive cost. *Team Corporation*, a recognized pioneer in multi-axis test system design, has now introduced the TENSOR™ family of test systems, offering unparalleled frequency response at an attainable cost.

By coupling electrodynamic shakers to the moving element with hydrostatic bearings, TENSOR™ has the performance to produce true multi-axis excitation to frequency levels previously attainable only in a single axis. The TE6-900 uses dynamic control of all six degrees of freedom to precisely reproduce the desired response, from 10 through 3 kHz. This also minimizes the moving mass of the table, which results in a more efficient use of available shaker power.

The unique arrangement of shakers around and under the moving table facilitates dynamic control of mode shapes resulting in better control. This feature offers unparalleled control precision, taking advantage of the sophisticated algorithms that form the basis of contemporary test controller software.



# TE6-900 Vibration Test System

## Table Size

200 x 200 mm (8 x 8 in.)

## Frequency Range

10 – 3,000 Hz

## Table Material

## Magnesium

## Rated Force

Sine:

900 N (200 lbf)

Random:

900 Nrms (200 lbf)

## Max. Acceleration (Bare table)

295 m/sec<sup>2</sup> (30-g)

## Max. Velocity

1500 mm/sec (60 in/sec)

## Max. Displacement:

12.5 mm (0.5 in p-p)

## Mass of Moving Element

4 kg (9 lb)

## Cooling System

Forced air

## Power Supply

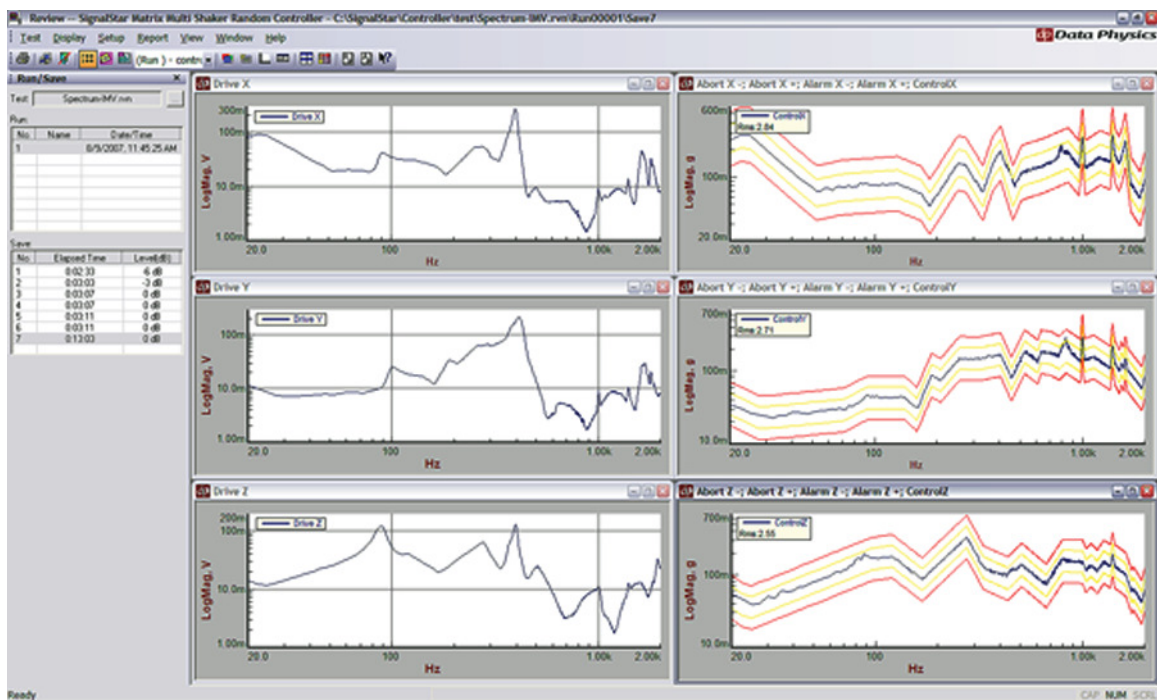
230 VAC 60 Hz, 3 phase, 60 amps

## Required Floor Space

1.8-m x 1.4-m (72 in. x 54 inc.)

## System Weight

1200 kgs (2650 lbs)



# **Team**

VIBRATION TESTING EQUIPMENT



## **U.S. Headquarters**

Team Corporation  
11591 Watertank Road  
Burlington, WA 98233  
USA

Tel: (360) 757-8601  
Fax: (360) 757-4401

[sales@teamcorporation.com](mailto:sales@teamcorporation.com)  
[www.teamcorporation.com](http://www.teamcorporation.com)



## **UK Headquarters**

Team Corporation UK  
Team Corporation UK Ltd  
11 Old Ladies Court  
High Street  
Battle  
East Sussex  
TN33 0AH  
United Kingdom

Tel: +44 (0) 1424 777004  
Fax: +44 (0) 1424 777005

[sales@teamcorporation.co.uk](mailto:sales@teamcorporation.co.uk)  
[service@teamcorporation.co.uk](mailto:service@teamcorporation.co.uk)  
[www.teamcorporation.co.uk](http://www.teamcorporation.co.uk)

## **Authorized Sales Agents**

*A wholly owned subsidiary of Team Corporation*

