

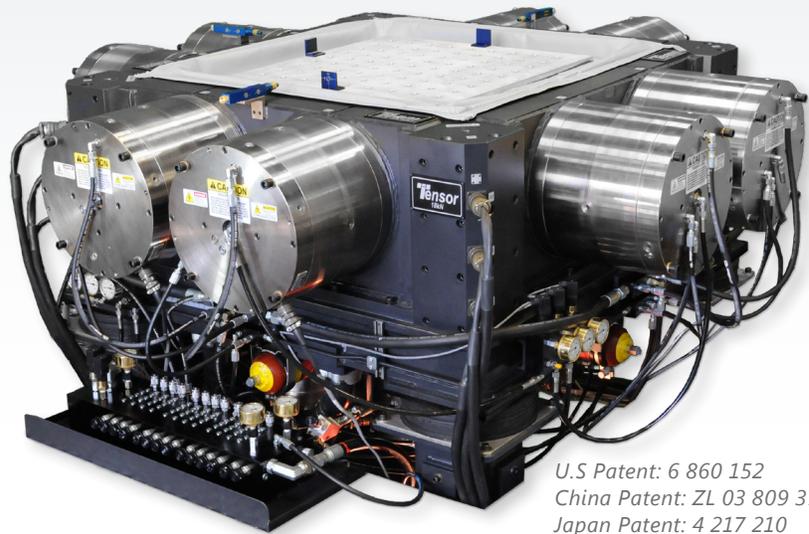
Tensor 18kN™

Multi-Axis High Frequency Test System

Team Corporation's Tensor 18kN is the latest evolution in high frequency, large platform simultaneous multi-axis vibration testing equipment. This unique 2kHz system provides the test professional with complete control and fidelity over all 6 degrees of freedom.

Team's expertise in mechanical design combined with high precision manufacturing capability results in an extremely robust vibration test system with unequaled accuracy. Truly an innovation in vibration test system evolution, the Tensor 18kN is recognized as the system of choice for replicating critical field environments.

Team Corporation's latest addition to the TENSOR™ Family of Multi-Axis Test Systems Provides Unmatched Performance in High-Frequency, Simultaneous Excitation. Twelve integrated electrodynamic shakers provide 4,800 lbf (21.3 N) in each axis.



U.S Patent: 6 860 152
China Patent: ZL 03 809 374.X
Japan Patent: 4 217 210

Features:

- Simultaneous or sequential excitation of X, Y, and/or Z axis
- Peak sine force Rating of 4,800 lbf (21.4 kN).
- RMS Random force rating of 3600 lbf (16kN).
- Complete control of rotations around all axis
- Velocity of 50 ips (1.3m/sec)
- Displacement +/- 0.50 in (12.7 mm) dynamic
- Bandwidth from 5 Hz through 2 kHz
- Sine Acceleration 6.6g peak*

- RMS acceleration 5.0 grms*
- Angular rotation +/- 4°

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)

Specifications

Dimensions:	English	Metric
Top Surface	30 in x 30 in	0.76 m x 0.76 m
Bare Table Moving Mass	430 lbs	195 kg
Max recommended Payload	300 lbs	130 kg
Operational Frequency Range:		
Test Frequency Range	5-2,000 Hz	5-2,000 Hz
General Specs per Axis		
Displacement - P-P Dynamic	1.0 in	25 mm
Displacement - P-P Static	1.5 in	38.0 mm
Velocity - Peak	50 ips	1.3 m/sec
*RMS Acceleration (with max payload)	5 grms	5.0 grms
Force/Axis - RMS	3,600 lbf	16,000 N
Force/Axis - Sine	4,800 lbf	21,360 N
Rotational Performance:		
Roll Displacement	+/- 4.0 degrees	+/- 4.0 degrees
Pitch Displacement	+/- 4.0 degrees	+/- 4.0 degrees
Yaw Displacement	+/- 4.0 degrees	+/- 4.0 degrees
Hydraulic Power Supply Requirements:		
Facility Power	460 VAC / 60 Hz / 3-Ph	
Motor Power	50 hp	
Circuit Breaker Disconnect	125 A	
Cooling Water	30 gpm @ 70°F MAX	
Suction Pump Requirements:		
Facility Power	460 VAC / 60 Hz / 3-Ph	
Motor Power	7.5 hp	
Circuit Breaker Disconnect	30 A	
Power Amplifier:		
Number of Electronic Racks	4	
Facility Power	460 VAC / 60 Hz / 3-Ph	
Max Power Output per Rack	37 kVA	
Circuit breaker disconnect per rack	65 A	
Max required facility Current	260 A	
Armature Power	80 A / 110 V / 10 kVA	
Max Heat rejected to Air	10,000 BTU/hr	



Featured in Sound and Vibration Magazine
March 2013





 Team Offices

• Authorized Sales Agents

sales@teamcorporation.com

Corporate Headquarters
11591 Watertank Road,
Burlington, WA 98233, USA
+1.360.757.8601
teamcorporation.com

Asia Pacific
Rm 2005 Minhang Plaza
18 Xinqing Road, Pudong
201206 Shanghai, China
+86.21.3382.0671
+1.831.655.6677

Engineered vibration testing solutions for improved product quality

