

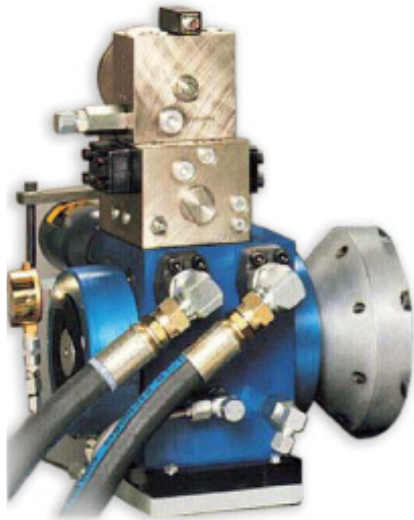
Systems
&
Solutions

Engineered
vibration testing
solutions for
improved
product quality.

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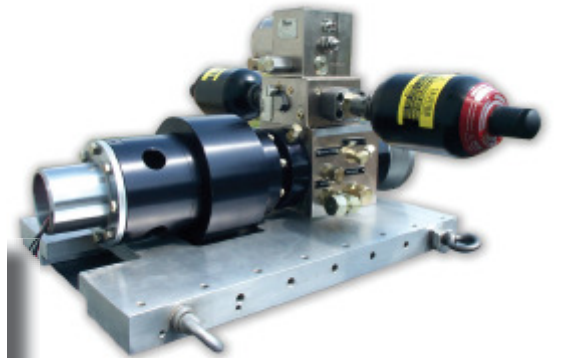
Automotive Test Systems



**Drive Train
Test Systems**



**Multi-Axis Vibration
Test Systems**

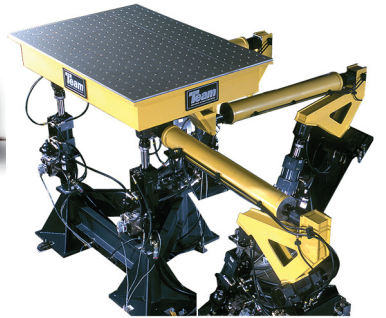


**Engine Simulation
Systems**

Vibration Test System



Mantis™



CUBE™

CUBE™

The CUBE™ offers 6 Degrees of Control and can accurately replicate virtually any vibration environment. The CUBE™ with forces up to 14,000 lbf (62kN) and a frequency range in excess of 250 Hz offers a compact installation footprint. Available in 3 models providing standard stroke length in all axes, extended vertical stroke length and Man Rating.

A multi-axis MAST test system designed to provide high performance Vibration testing of equipment for military, aerospace automotive and commercial customers. Force levels from 2,000 lbf (8.89kN) to 50,000 lbf (222kN), pk-pk displacements of 100mm or more and operating frequencies up to 100 Hz.

Tensor™

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.



Tensor™

4 Poster

Team Corporation's unique Four Poster is designed specifically for full vehicle testing. Featuring low-profile, low-noise actuators equipped with hydrostatic bearings, Team Four Posters are ideally suited to end-of-line and development testing applications. The compact actuators modules are ideal for smaller laboratories. When not in use under a vehicle, each actuator module can be used as a stand-alone vertical vibration test system.



4 Poster

Pitch Table

Team Corporation, a leader in higher performance, servohydraulic vibration test systems designed the Pitch Table specifically for automobile seat manufacturers. The Pitch Table is designed to perform in process testing as described in the "Vibration Amplitude of Seat Back (IP TESTING)" and "Evaluation of Noise During Applied Vibration (IP TESTING)" sections of Ford Motor Company's ES-F58B-1600034-A specification.

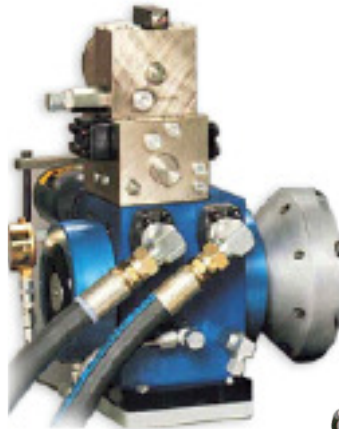


Pitch Table

Drive Train Test Systems

Rotary Actuators

The R-10 Rotary Actuators are designed for fatigue testing wherever high torque output with restricted rotational travel is required. The R-10 Series of actuators have a total rotational travel of 100 degrees (+/- 50 degrees) and a dynamic torque output from 5,000 to 200,000 lb-in (564 to 22,596 N-m). It is a heavy duty, robust, fatigue rated actuator that finds many applications in the automotive industry such as testing couplings, dampers, drive shafts, axles, and material testing.

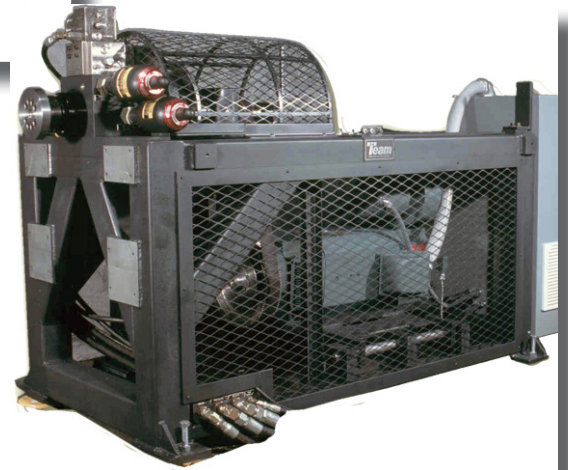


Rotary Actuator

Engine Simulators

Team Corporation developed the 900 Series of Engine Simulation Systems to accurately simulate the torsional pulsations found on the crankshaft of the engine. Team Engine Simulators reach the speeds to today's engines and provide realistic test conditions for engine drive components and systems. With speed up to 10,000 rpm, dynamic torque output up to 3,300 ft-lb (4520 N-m) and torsional frequencies in excess of 600 Hz, the 900 Series of Engine Simulators are easily configured to simulate engines of virtually any displacement and number of cylinders.

Engine Simulator



Transmission Pressure Oscillator

This development lab tool provides a method of testing the dynamic response of spool valves in automatic transmissions. The self contained hydraulic power unit provides oil flow and pressure for continuous operation. The system produces 300 psi Pk-Pk oscillation pressure about a nominal pressure with a 300 Hz maximum frequency capability. Pressure oscillations are controlled with a Team V-20 Voice Coil Servo-valve.

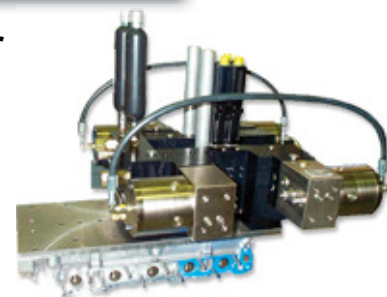


Transmission Pressure Oscillator

Engine Valve Actuators

Engine valve actuators are used by engine manufacturers to study variable valve timing and valve lift profiles. Mounted on live firing engines. Each valve is controlled by an individual Team actuator taking the place of the camshaft and rocker arm, Team's Engine Valve Simulator permits full control of exhaust and intake valve lift and dwell on operating automotive engines.

Engine Valve Actuator





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