Vibration Testing Equipment

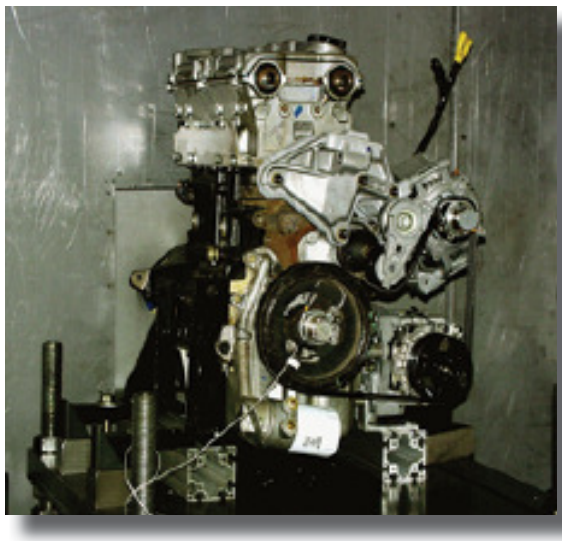
Engine Simulation Systems

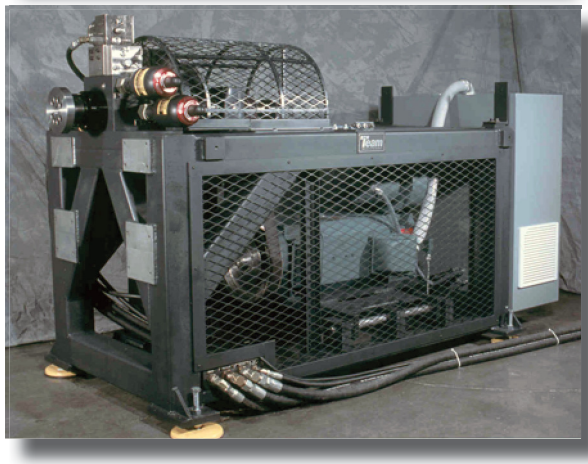
Systems & Solutions

Engineered vibration testing solutions for improved product quality.

Real life testing is crucial in today´s automotive industry. *Team* Corporation has developed the 900 Series Engine Simulation System to accurately reproduce the torsional pulsations found on an engines crankshaft. *Team´s* Engine Simulators reach the Rpm speeds of today's engines and provide realistic test conditions for engine driven components and systems.

Team´s Engine Simulators are designed to study the effects of dynamic torque loads on engine driven components and systems. With speeds up to 10,000 rpm, dynamic torque output up to 3,300 ft-lbs (4520 N-m) and torsional frequencies in excess of 600 Hz, *Team´s* 900 Series Engine Simulators are easily configured to reproduce engine dynamics of virtually any displacement and number of cylinders.





Features:

- Speeds up to 10,000 rpm
- Dynamic torque output up to 3,300 ft-lbs (4520 N-m)
- Torsional frequencies in excess of 600 Hz
- Digital PC-based control system with easy-to-use Graphical User Interface
- Easily programmed to simulate any number of cylinders and torque characteristics
- Integral drive motors up to 100 hp (75 kW) or use existing prime movers

Applications:

- Simulation of engine crankshaft torsional vibration
- Front Engine Accessory Drive (FEAD) development and analysis
- Analysis of FEAD noise characteristics
- Evaluation of torsional vibration dampers, couplings, gears, transmissions, clutches, transfer cases, drivelines and belt drives
- Analysis of transmission and transfer case gear rattle
- Simulation of pre-production engines

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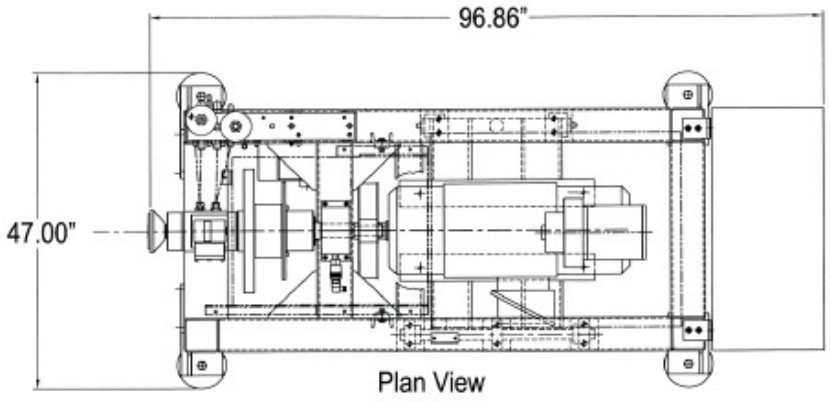
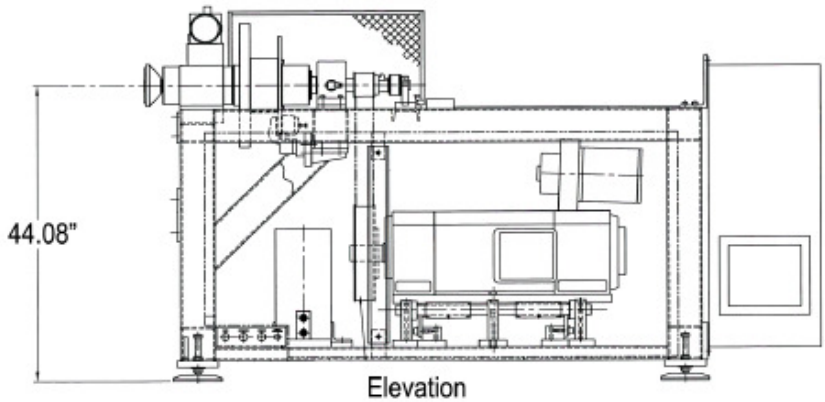
Specifications

	901	902.5	904
Dynamic Torque	800 ft-lbs (1130 N-m)	2,000 ft-lbs (2825 N-m)	3,300 ft-lbs (4520 N-m)
Angular Displacement	60 degrees	60 degrees	60 degrees
Peak Angular Velocity	25 radians / sec	25 radians / sec	15 radians / sec
Peak Angular Accel. (no load)	50,000 radians/sec2	25,000 radians/sec2	15,000 radians/sec2
Maximum Speed	6,000 rpm Standard 10,000 rpm Optional	3,5000 rpm	3,500 rpm
Recommended Hydraulic Power Supply	28 gpm @ 3,000 psi (108 l/min @ 210 bar)	68 gpm @ 3,000 psi (260 l/min @ 210 bar)	68 gpm @ 3,000 psi (260 l/min @ 210 bar)
Approximate Dimensions W x L x H	47 x 97 x 56 in. (1.2 x 2.5 x 1.4m)	36 x 51 x 48 in. (0.9 x 1.3.x 1.2m)	36 x 51 x 48 in. (0.9 x 1.3 x 1.2m)



Plan View



Elevation