Torsional Fatigue TestStand – Drive Shaft

THE MTS TESTSTAND APPROACH

The MTS TestStand approach enables OEMs, suppliers and contract test labs to adapt to evolving vehicle subsystem and component testing requirements with speed, efficiency and confidence.

The MTS TestStand approach is designed to offer the cost advantages of an in-house system, but with faster deployment and less risk. Essentially, it is a collaborative effort between the test lab and MTS to define specific test objectives and then determine how best to achieve them within the available budget and timeframe.

TestStand solutions leverage more than four decades of MTS ground vehicle testing expertise, as well as high-quality MTS TestLine™ components. To keep costs in check, MTS works closely with customers to determine which elements of the test system they can machine in-house or manufacture locally, with our guidance.

TORSIONAL FATIGUE TESTSTAND

This TestStand is designed to test and validate the durability and performance of automotive drive shafts by simulating the dynamic loading of a real-world operating environment.

The physical rig comprises a baseplate with safety enclosure, a Series 215 hydraulic rotary actuator assembly with servovalves and required manifolds, one set of system fixtures, a FlexTest® Servocontroller, a Series 293 Hydraulic Service Manifold with system accumulation and emergency shut-off features, a SilentFlo™ Hydraulic Power Unit and hydraulic hoses.

System Performance

- Max. Displacement: +/- 45 deg
- Max. Load: +/- 5 or 11 KN.m
- Frequency Range: 0-50 Hz

System Options

- cRPC Pro Simulation Software

System Content

- One baseplate with safety covers
- One Series 215 rotary actuator
- One specimen platen for samples
- One set of system fixtures for actuators
- One FlexTest System Controller and Software
- One Series 293 Hydraulic Service Manifold
- SilentFlo Hydraulic Power Unit
- Hydraulic hoses
- MTS installation and support services
EXPERT SUPPORT, WHEN AND WHERE YOU NEED IT

Test professionals throughout the world rely on MTS’ innovative technologies, high-quality test systems and applications expertise to optimize their testing programs. We complement this industry-leading portfolio with an unmatched suite of global service and support, all designed to increase your uptime and reduce your total cost of ownership.

By supporting your test program from facilities planning and system integration through final equipment de-commission, MTS offers a single, reliable resource for helping you optimize your system performance, manage your budget, protect your data integrity and maintain your schedule predictability.

COMPONENT RPC® PRO SOFTWARE FOR ROAD SIMULATION AND TEST

MTS’ cRPC Pro Software is the latest evolution of the world’s leading software for data validation, analysis, laboratory simulation, and test monitoring. Benefits of this software package include:

» Affordable testing solution for low channel count and component testing
» Optimized Laboratory Simulation Testing
  - Maximized laboratory productivity
  - Maximized laboratory effectiveness and accuracy
» Minimized required operator expertise
» Minimized test development time
» Minimized product development time