Transmission Torsion TestStand

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

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 time frame.

TestStand solutions leverage more than five 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.

TRANSMISSION TORSION TESTSTAND

This two channel torsion TestStand is designed to precisely achieve and sustain regulated and measurable static and quasi-static torque applications to various automatic transmission assemblies. It can be used to test front wheel drive or all wheel drive systems. The left and right transmission shafts are grounded to react proper torque.

The servomotor is capable of running test schedules of applied torques, angular deflections, and frequencies. The MTS FlexTest controller will perform dual servo-loop control and optimization of test components.

System Content

» Two Electric Servomotors
» Two Double-reduction Gearboxes
» Two 24 bit digital telemetry (non contact) torque cell coupling method
» Specimen Fixtures
» Adapter fixtures and input/output drive shafts
» Adjustable servomotor gearbox assemblies
» One Free-standing Dual-bay Drive Panel
» FlexTest 60 System Controller and Software
» Performs dual servo-loop control and optimization of test components.
» MTS installation and support services

System Performance

» Torsional capacity: 5,000 N-m continuous
» Rotational speed: 60 degrees/second
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.