



Automotive Component Testing Machines

ACTM has been in business for over 27 years designing, building, and retrofitting testing systems for use in R&D, production facilities, and fully automated component assembly lines. We provide training and maintenance services, as well as application engineering services to assist customers with their own development activities.

ACTM holds patents on shock absorber and damper testing machines that provide extremely precise data related to damping force characteristics.

ACTM remains a step ahead of our competitors and has continually kept overhead low. This enables us to provide superior systems at most competitive prices. In some instances our machines cost ten's of thousands of dollars less than comparable machines.

ACTM has customers in North & South America, and Europe. We are able to move quickly to meet our customer's needs and often exceed expectations. We guarantee 100% customer satisfaction.

All inquiries are welcome. Feel free to contact us at any time.

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The following pages contain examples of the many machines ACTM has built or retrofitted.



The Tire Tester/Road Simulator applies real life stresses to tires similar to those exerted by any road or off-road terrain, at any speed. It can test traction under all conditions: dry, wet, snow, and sand.

It is useful for developing special purpose tires such as racing, military, and aircraft.



Part of a Fully Automated Shock Assembly Line.

Fully automated assembly lines are able to make parts of all kinds from raw materials through to finished product, including real-life testing prior to ejection, without manpower or human monitoring.



The Multi Axis Damper Tester tests dampers (shock absorbers), at any velocity, through any stroke length, and at any angle relative to normal.

It is typically used to test ATV and military shocks.



The Multi Axis Simulator tests vehicle body strength and stress under real-life conditions. It can simulate a vehicle traveling over any road or off-road surface.

It may be used for fatigue testing to determine weakness points in the body and is typically used in aircraft wing fatigue testing.

Test times may be accelerated or allowed to remain real-life. System employs “RPC” technology as required.



The Four Wheel Road Simulator tests an assembled vehicle over any road or off-road surface at any speed.



The Steering Road Simulator subjects a vehicle’s steering components to any road or off-road conditions.

It is typically used to determine controllability and driver feedback.

A special use is in skid simulation where computer correction of wheel angle is used to maintain steerability.

It may also be used for fatigue testing of steering components.

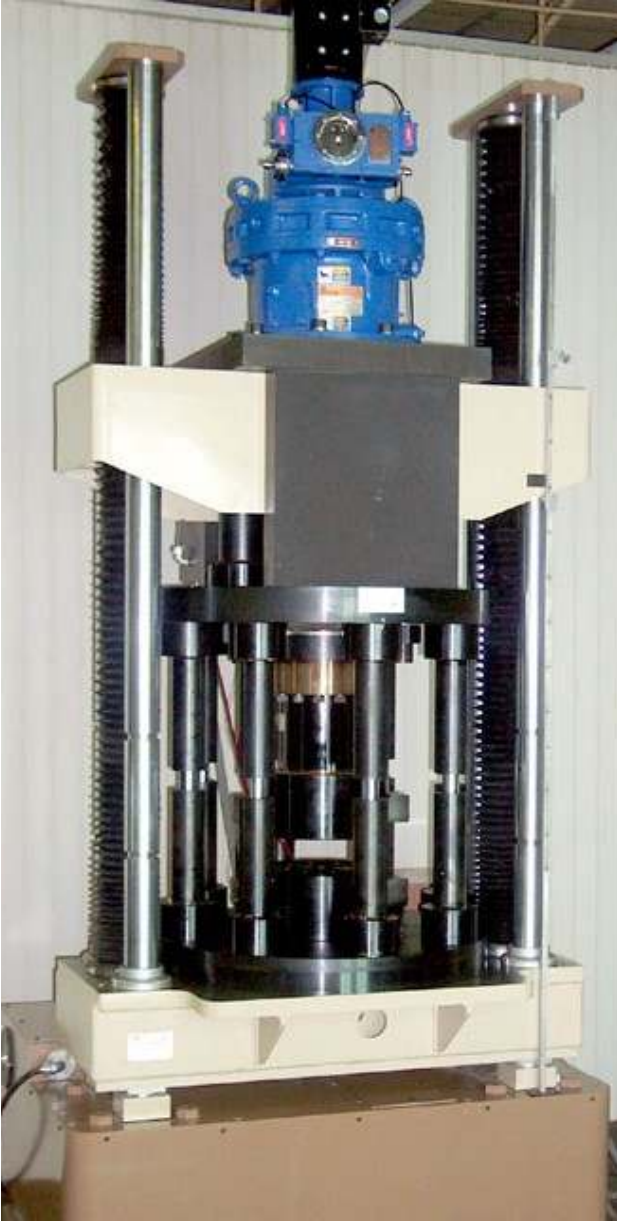


The Heavy Vehicle Axis Tester is used to simulate the effect of load on axle assemblies and drive components such as differentials, knuckle joints, universal joints, as well as testing the effectiveness of dampers and springs.



The Online Damper Tester is used to qualify the damping characteristics of shock absorbers.

It simulates real-life conditions on the damper very quickly and verifies if it meets design specs.



The Laboratory Torsion / Tensile Material Tester subjects specimens to a simultaneous two axis test at any programmed axial force and torsion.

It is able to test over a wide range of speeds until programmed limits are reached or destruction occurs.

Stress/strain data is recorded and plotted.

The system may also employ “strain control”.