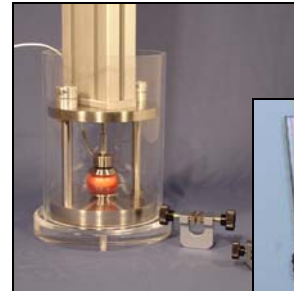


The spinal device industry is expanding with new products that require extensive mechanical tests to validate their life. TestResources modular approach to test equipment offers upgradeability and expansion to simplify and support our customers on their journey. Our controller expands as test needs grow in complexity.

- **Electromechanical Machines**
- **Fatigue Testers**
- **Axial Torsional Systems**
- **Multichannel Systems**
- **NEW Dyna-Myte™ Low Force Test System**

Tabletop line of fatigue testers include high speed low force systems and systems to generate the 5M or 10M compression-compression fatigue cycles at loads to 650 pounds. We offer several solutions based on our expandable digital controller. The L Series is an affordable fatigue tester to match the needs of standard tests such as ASTM F1717 and other test methods.

Servohydraulic Axial Torsion Systems – meet the needs of spine and biomechanical test labs. Our system features a linear actuator in the crosshead and torsional actuator in the base-plate. Equipped with an axial and torsional load sensor and position feedback, this package can handle almost any single mode or combined mode test. The 2350 controller with multichannel software offers fully integrated control and measurement, with digital data acquisition. Special data reduction analysis software is also available.



Digital Controller

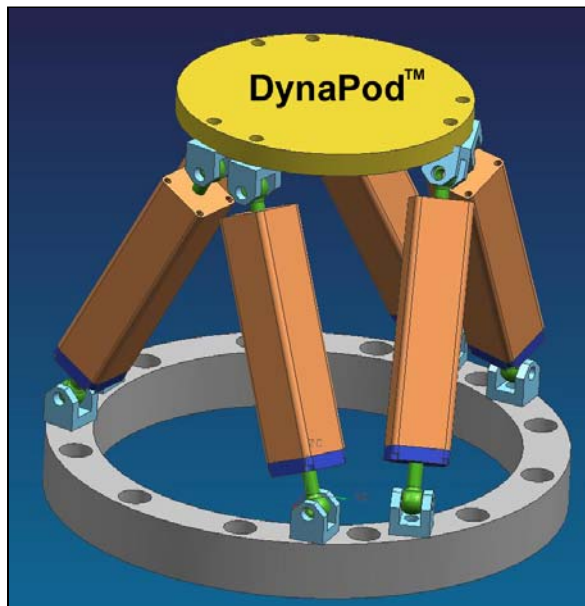
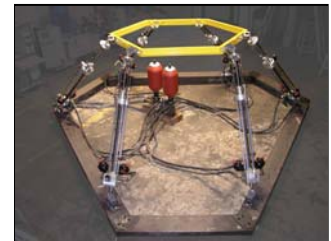
The 2350 is the fastest closed loop servocontroller in the industry, and in the early stage of it's product life. This ensures you of a controller that can be tailored to your requirements and supported. The hardware is driven by a 100 MHz digital signal processor (DSP) capable of multichannel mode. Data acquisition is possible at 20,000 samples per second.

Multichannel Configurations

A 2350 supports up to eight control channels without constraints, and up to 12 sensors, including four encoders, LVDT's, load cells, and extensometers. Multiple synchronous channels make it possible to control any servoactuator and interface to devices such as hydraulic pumps, furnaces, special instrumentation and other devices. Up to 64 channels of data acquisition are possible at rates to 100 samples per second on each input channel.

Powerful Software

Our MTL and N Channel software products are intuitive, easy to setup, able to display data in real time, and produce custom test profiles. Of course, they handle all machine automation requirements and can be supplied as turnkey customized solutions. We software technology is open architecture and our controls are completely software driven and configurable to the needs of mechanical testing applications.



6DOF Control – and control the center of rotation. Six-degree-of-freedom tests of multi-motion-segments and mechanical properties measurements are possible with DynaPod Test systems.

Robotics have been proven useful in testing lumbar spine by researchers at the University of Vermont. Our DynaPod 6 DOF Test System consists of a moving platform supported by six actuators mounted to a stationary base. The platform or upper crosshead table can be programmed in load or position with the 2350 multichannel controller. Measure forces and moments associated with each of the six orthogonal translations and rotations.

