

AUTOMATED SERVOVALVE TEST STAND

Exceptional, fully-automated test systems for servo controls and related components



Off-the-shelf and custom-designed ATE systems

Providing the highest quality equipment with a significantly lower lifetime cost of ownership

The drive to shorten turn-around time, shrink inventories and service aircraft equipped with more sophisticated electronic components has forced maintenance operators to seek automated test equipment capable of meeting today's increasingly demanding test requirements. Around the globe, the airline industry and military forces trusts Textron Systems to provide the finest test technology available today. Behind every ATE model is a tradition of engineering excellence that spans half a century providing customers with high quality equipment at a significantly lower cost of ownership.

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Automated Servo Valve Test Stands (ASTS)

ASTS models evaluate both the flow and pressure control servovalves used to control servoactuation equipment found in flight controls, brake control systems and engine fuel control systems. With an extensive list of options and "fill-in-the-blanks" test characterization, the system can be reconfigured to suit any servovalve that meets ARP-490 standard test requirements.

Customized Solutions

Textron Systems specializes in the development of customized applications for any suite of test articles. Whatever the challenge — combining our reconfigurable ATE modules, developing a new application, or adding new components to existing capabilities — our superior in-house engineering and design capabilities offer solutions to meet your specific requirements. Create a unique, competitive advantage by matching your testing capabilities to your business needs.

Computer System/Monitor

- 19-inch rack mount
- 800 MHz (minimum) Pentium Processor
- Full size Processor Card
 - 256 KB (minimum) RAM Cache
 - 256 MB (minimum) RAM
 - ATI RAGE XL Video Controller
 - Ethernet 10/100 Base-T LAN Controller
- CD ROM Drive and Controller
- 40 GB (minimum) Enhanced IDE Hard Drive
- Modem available for remote maintenance
- Integrally mounted Touch Screen and Touch Screen Controller
- High-res flat panel display
- Enhanced resolution screen for best Touch Screen usage
- 3.5 Floppy Drive with 1.44 MB capacity

Printer

- 600 dot per inch, parallel interface, laserjet printer
- Auxiliary connector for serial printer communications

Keyboard

- 104 keys with an integral pointing device
- Brushed aluminum with a silicon membrane over the keys and the pointing device
- Pointing device is pressure sensitive (non-moving) mouse emulator

Test Stand Characteristics

Dimensions (Approximate): Hydraulic Console

Depth	64 Inches	Width	82 Inches
Height	64 Inches	Weight	2000 Pounds
Maximum Operating Pressure	5000 psi	Maximum Proof Pressure	6000 psi
Maximum Flow	40 gpm	Fluid Filtration	3 Micron Absolute
Ambient Operating Temp.	50° to 120° F		

Standard Tests (per ARP-490 Standard)

- Valve Coil Resistance/Polarity
- Internal/External Leakage
- Hysteresis
- Proof Pressure
- Dynamic Performance
- Flow Gain, Expanded Flow Gain, Null Bias, Threshold
- Pressure Gain, Null Bias, Threshold, Null Shift, Neutral Cylinder Pressure



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