ADVANCED TEST SYSTEMS

Leading the way with exceptional, fully automated testing equipment

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 trust 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.

AUTOMATED TEST EQUIPMENT

Servoactuator Test Stations (SATS)

SATS is designed to test hydraulic flight controls, including servoactuators found in both fly-by-wire and manual input configurations. Simpler components, such as cylinders, hoses and valves can also be tested on the SATS.

Automated Servovalve 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. These test stands can be reconfigured to suit any servovalve that meets ARP-490 testing requirements.

Automated Hydraulic Pump/Motor Test Stations (HPMTS)

HPMTS equipment evaluates several categories of airborne pumps, including engine-driven pumps, hydraulic flight control motors and AC motorpumps. User-reconfigurable tests and pass-fail parameters allow customers to create their own suite of component tests without expensive and time-consuming programming.

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.

Designed For Reliability

Isolating failures between the airborne equipment being tested and the equipment performing those tests is an industry-wide challenge met by Textron Systems. Our HR Textron Operations was the first automated hydraulic equipment manufacturer to incorporate significant self-test and fault diagnostic into its full line of ATE equipment. Continuous Fault Monitors analyze whether the test stand is suitable to perform the test, while a full suite of self-test programs determines the test stand individual components or systems pass/fail status. The result — reduced maintenance time, fewer personnel training costs, and increased test stand on-line status.

Designed To Last

Textron Systems' ATE products are designed for maximum dependability and ease of maintenance, making annual calibrations quick and trouble-free. Our patented Modular Manifold System greatly reduces hydraulic system leaks and minimizes maintenance time.

Designed For Accuracy

Today's electrically- and electronically-controlled flight components are subject to the electrical characteristics of the flight control computer in the aircraft. Unless the test equipment can accurately reproduce these characteristics, test results will be unreliable or inconsistent with the airborne environment. Textron Systems has developed a "re-programmable" servocontrol testing capability that reduces the cost of maintaining many unique electronic configurations and provides significantly improved test results. A digital signal processor (DSP), combined with enhanced software capability, allows reproduction of the flight control electronics interface in a wide range of aircraft components.

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