

Aviation Electric Test Equipment Market Increase in adoption of unmanned aerial vehicle testers in battlefield by 2030

PORTLAND, ORAGON, UNITED STATES, September 19, 2022 /EINPresswire.com/ -- Aviation refers to an aeronautics branch that includes aircraft design, manufacture, production, and service. [Aviation electric test equipment](#) is used to test aircraft functioning and issues related to lighting systems, air condition, electrical circuits, power generation, and distribution. Aviation testing devices set the standard in the aviation maintenance industry. The equipment is primarily used for the calibration, inspection, assessment, and certification testing of various types of aircraft instruments. It includes inertial instruments, weather radar systems, tachometer or generator indicators, pressure-sensitive devices, and gyroscopes. The aviation test equipment's primary functions include test preparation, memorizing, recording, and tracking tests. The main goal of such test equipment is to reduce the cost of the life cycle, boost reliability and protection of the system, isolate faults, and advance testability.

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The factors driving the growth of the global market for aviation electric test equipment include increase in R&D activities for developments in aviation test equipment. Modernization of various commercial, military aircraft with latest technologies and growing importance of integrated systems drive the need for advanced electric testing systems. The growing defence budget, government spending, a multi-use testing program for various weapon platforms, open and configurable testers, and growing usage of software-adaptable solutions drive the growth of the global market considerably. Besides, there is also an increase in aerospace activity, and demand for aviation test equipment has risen irrespective of geographic regions. On the other hand, some constraints hinder the market growth such as reduced avionics module lifetime as well as the maintenance of legacy platforms.

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COVID-19 Scenario Analysis:

Throughout this time, given the evolving nature of the disease, forecasting with some accuracy vessel decisions and the impact on servicing, repair, and overhaul operation as a response to

COVID-19 is almost impossible.

Companies are experiencing production disruption and declining demand in commercial aviation as staff go home, travellers stop flying, and consumers delay the delivery of new aircraft. The demand for replacement parts is also reduced since less maintenance is required at the moment.

When the current market overcomes the effect of pandemic and aircraft orders are increased, the need for electric testing equipment will rise again.

Aircraft manufacturers are by definition capital-intensive, creating short-term cash flow and liquidity issues. Maintenance Repair & Overhaul (MRO) services are primarily required by the size and flight activities of the global fleet, but with diverse temporary influences in this pandemic situation with less operation flights.

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US aircraft manufacturer Boeing approved MK Test's bond tester for use in loop resistance measurement tests, in 2019. Also, this Bond Loop and Joint Resistance Tester (BLRT) will now be used as a substitute for the legacy Loop Resistance Testers (LRT) in both manufacturing and maintenance tasks on all Boeing commercial unfuelled production aircraft.

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The modular advanced countermeasures dispensing system (ACDS) test equipment (MATE) developed by BAE systems is a PC-based lower-level test bench, which runs automatic tests and generates reports based on the test results. Another development by BAE Systems is the Stores System Tester (SST) is a rugged flight line armament test system that allows for diagnostic analysis in realtime.

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David Correa

Allied Analytics LLP

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