

CONCURRENT CUSTOMER SOLUTIONS

CUSTOMER

Hamilton Sundstrand, a subsidiary of United Technologies, is among the largest global suppliers of technologically advanced aerospace and industrial products. The company designs and manufactures aerospace systems for commercial, regional, corporate, and military aircraft and is a major supplier for international space programs.

CHALLENGE

Hamilton Sundstrand needed a complex real-time system for its hardware-in-the-loop testing of aircraft power subsystems. The requirements for this intensive test stand necessitated a solution that could deliver real-time simulation, custom engineering, and packaging that would support each phase of the testing process. In addition, Hamilton Sundstrand was seeking a company capable of providing a fully integrated solution as well as the engineering support for this complex, mission-critical avionics application.

SOLUTION

In January 2001, Hamilton Sundstrand selected Concurrent Computer for this challenging application. Concurrent's solution included several of Concurrent's new Power Hawk™ series 700 closely-coupled systems, engineering and training services, and maintenance. With this solution, Hamilton Sundstrand has implemented a fully integrated, turnkey test stand to support its product lines using the Concurrent real-time solution.



Concurrent Turnkey Solution Supports Critical Avionics Testing



Concurrent-supplied test stands ensure avionics auxiliary power systems operation in a real-time environment.

Hamilton Sundstrand sets the pace for aerospace and industrial products

In 1999, Hamilton Standard and the Sundstrand Corporation merged, forming Hamilton Sundstrand. Hamilton Sundstrand traces its roots to the founding of the Sundstrand Corporation in 1905 - the industrial side of the company - and Hamilton Standard in 1919, the aerospace side. Headquartered in Windsor Locks, Connecticut, the company is a subsidiary of United Technologies Corporation and employs over 17,000 people worldwide.

As a global leader among suppliers of advanced aerospace and industrial products, Hamilton Sundstrand has a reputation of reliability and quality amongst its clients. The company's aerospace division is the prime contractor for NASA's space suit/life support system and produces environmental control, life support, mechanical systems, and thermal control systems for international space programs. The industrial division is a major supplier of mechanical power transmissions, couplings, marine drives, metering and specialty pumps, rotary screw air and gas compressors, and many other products.



*Concurrent's
Hamilton Sundstrand Team*



Hamilton Sundstrand

A United Technologies Company

The importance of test stands at Hamilton Sundstrand

In the highly technical and demanding field of mission-critical products, accurate and dependable testing is crucial to ensure the safety of those working with and in the finished product. Having been in business for over 80 years, the Hamilton Sundstrand aerospace division has earned the trust of clientele among the ranks of NASA and Boeing. The company continues to be at the forefront of development and is constantly seeking to update its testing systems.

Developing new technology that must be tested in the lab before field tests can be done presents a unique challenge to Hamilton Sundstrand. It requires that the systems used to analyze the prototypes be as sophisticated as the technology being developed. With this advanced set of criteria, Hamilton Sundstrand chose Concurrent's new Power Hawk™ series 700 closely-coupled systems for this testing application. Needing to upgrade its testing systems, Hamilton Sundstrand intends to implement a fully integrated, turnkey test stand to support its product lines using the Concurrent-supplied test stands. Application requirements for its hardware-in-the-loop testing of aircraft auxiliary power subsystems included real-time simulation, custom engineering, and packaging that will support each phase of the testing process.

Hamilton Sundstrand said it chose the Concurrent systems for many reasons, including Concurrent's history of success with other United Technologies divisions and Concurrent's proven ability to provide complex solutions and engineering support for mission-critical avionics applications. Concurrent was able to win the customer's trust in the company's ability to provide quality test stand devices and was also able to reference past successes with other similar complex systems.

Concurrent Computer Corporation, Real-Time Division, is one of the industry's foremost providers of high-performance real-time computer systems, solutions, and software for commercial and government markets. The company's 35-year-old real-time business focuses on strategic business areas that include hardware-in-the-loop and man-in-the-loop; simulation; data acquisition; industrial systems; and software. Operating worldwide, Concurrent provides sales and support from offices throughout North America, Europe, Asia, and Australia.

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