



Boeing 7E7 Hydraulic Subsystem, Galley Cooling and Engine Fuel Nozzles Awarded to Parker Hannifin

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CLEVELAND and IRVINE, Calif., Sep 27, 2004 /PRNewswire-FirstCall via COMTEX/ -- Parker Hannifin Corporation (NYSE: PH) has been awarded the hydraulic subsystem for the new Boeing 7E7 Dreamliner passenger jet, as well as individual components on the aircraft and GE candidate engine. The value of the award for Parker, including both original equipment and aftermarket spares and repair, surpasses \$1 billion.

(Logo: <http://www.newscom.com/cgi-bin/prnh/19990816/PHLOGO>)

Hydraulic subsystem. The Parker subsystem will operate at 5,000 psi, compared to the traditional commercial aircraft system pressure of 3,000 psi. The greater rate of pressure will reduce the size of equipment needed, thus reducing the weight of the subsystem.

The Parker team will work with Boeing to support the definition and specification of the hydraulic subsystem, as well as in its design and integration with the aircraft's surrounding systems. Parker will also support Boeing as the hydraulic subsystem goes through the certification stage of the aircraft, through production and delivery to owner/operator users in the field, providing them with lifetime product support of the Parker equipment.

The 7E7 Dreamliner will carry 200 to 250 passengers up to 8,500 nautical miles, and is expected to use 20 percent less fuel than today's aircraft of comparable size. It is scheduled for entry into service in 2008.

Boeing anticipates a need for 3,500 aircraft in the 7E7 market segment over the next 20 years and has booked orders from four airlines for 62 of the aircraft and is working to finalize agreements with about two dozen airlines for more than 200 airplanes.

"We are delighted to be part of the exciting new 7E7 program," noted Parker Hannifin President and Chief Executive Officer Don Washkewicz. "The Dreamliner will revolutionize the airline industry in its use of lightweight composites and other innovative materials and technologies. Parker Hannifin is pleased to be part of this history-making venture."

Parker's Abex Division, located in Kalamazoo, Michigan; Air & Fuel Division, based in Irvine, California; and Stratoflex Products Division, headquartered in Ft. Worth, Texas, will provide components for the subsystem, including pumps, reservoirs, filter modules, associated sensors, and flow control devices. All three divisions are part of Parker Aerospace Group.

Galley cooling. The Nichols Airborne Division of Parker Aerospace, located in Devens, Massachusetts, and Elyria, Ohio, has been selected by Hamilton Sundstrand Corporation to supply liquid cooling pumps and reservoirs for its air management system on the 7E7.

Parker's technology combines the intelligent control of brushless, DC- motor "smart pumps" with fluid expansion reservoirs and filtration into a compact cooling package. These pump packs will help cool aircraft electronics, electric motors, and galley refrigeration.

Fuel nozzles for the General Electric GENx engine. Parker's Gas Turbine Fuel Systems Division is working with General Electric on new low-NOx combustor technology for use in the GENx (GE low NOx) engine for the Boeing 7E7. The technology uses Parker's patented macrolamination nozzles, which significantly reduce NOx emissions and improve fuel consumption, compared with those used in singular annular engines. The GENx will use 22 nozzles per engine and will produce 55,000 to 70,000 pounds of thrust.

The GENx engine will enter test in 2006. It is being designed and tested at GE Transportation's world headquarters in Evendale, Ohio. Production of the GENx will be in Durham, North Carolina.

Parker Aerospace and Parker Hannifin Corporation. Parker Aerospace is an operating segment of Parker Hannifin Corporation which designs, manufactures, and services hydraulic, fuel, and pneumatic components, systems, and related electronic controls for aerospace and other high-technology markets. Based in Irvine, California, its product lines also include flight control actuation systems and components, thrust-reverser actuation systems, electrohydraulic servovalves, other utility hydraulic systems and

components, DC motor pumps, fuel pumps, lubrication and scavenge pumps, fuel measurement and management systems, cockpit instrumentation, flight inspection systems, pneumatic subsystems and components, fluid metering delivery and atomization devices, and wheels and brakes.

With annual sales exceeding \$7 billion, Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of commercial, mobile, industrial and aerospace markets. The company employs more than 48,000 people in 44 countries around the world. Parker has increased its annual dividends paid to shareholders for 48 consecutive years, among the top five longest-running dividend-increase records in the S&P 500 index. For more information, visit the company's web site at <http://www.parker.com> , or its investor information site at <http://www.phstock.com> .

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