



Mitsubishi Aircraft News No. 02

JAMCO Participates in Designing of MRJ's Ailerons and Spoilers, Using Carbon Fiber Composite Material Technology

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Mitsubishi Aircraft Corporation has signed an agreement with JAMCO Corporation in Tokyo under which JAMCO will participate in the designing of ailerons and spoilers for the Mitsubishi Regional Jet (MRJ), the next generation regional jet currently under development. Mitsubishi Aircraft will accept engineers from JAMCO for one year, and the two companies will jointly design carbon fiber composite, light-weight and highly rigid ailerons*1 and spoilers*2, which will be mounted on the wings. Mitsubishi Aircraft, aiming to reduce the weight of the MRJ in a quest to achieve top class operational economy, and JAMCO, which has been seeking further business expansion in aerospace equipment and parts production, recognized the fit and entered into the partnership agreement.

JAMCO, which was established in 1955 as C. Itoh Aircraft Maintenance and Engineering Co., Ltd., has expanded its business into the field of aircraft interiors and aircraft equipment and parts production, while continuing in the aircraft maintenance service business. In the aircraft interior business, the company enjoys approximately 50% of the market share in lavatory components for the world's major airlines and about 30% in galley related products. The company has various specialized process technologies to produce aircraft equipment and parts, including welding, thermal processing and brazing of specialty metal. In the area of carbon fiber composite material components that are essential to reduce the weight of aircraft, the company has also accumulated technological expertise and has

aggressively invested in the production system. JAMCO owns its proprietary Advanced Pultrusion (ADP) composite material process technology and has been looking for an opportunity to expand its business in aircraft components of this kind, which are designed to comply with severe requirements, including aerodynamics.

Mitsubishi Aircraft Corporation commenced operation on April 1, 2008 as the first company in Japan to undertake full assembly of passenger jets and their sales. The MRJ is to be a 70-90 seat class regional jet with cutting-edge technology that will enable dual achievement of the world's top-class operational economy and outstanding cabin comfort. The MRJ will be the first regional jet to adopt composite materials for its wings and vertical fins on significant scale. In combination with new engines and an advanced aerodynamic design, the aircraft is being planned to reduce fuel consumption substantially and to contribute greatly to enhanced competitiveness and profitability for the airline companies.

Among the major partners in the MRJ program, Pratt & Whitney will supply its most advanced, highly efficient Geared Turbofan™ engines. Other major companies participating are: Parker Aerospace, to supply the aircraft's hydraulic system; Hamilton Sundstrand Corporation, furnishing various systems, including electrical power, air management and auxiliary power units; Rockwell Collins, providing the flight control computers and avionics; Nabtesco Corporation, to furnish the flight control actuators; and Sumitomo Precision Products Co., Ltd., supplying the landing gear.

Notes:

1. Ailerons are aircraft control surfaces used to make planes bank or roll. They are mounted (hinged) on the trailing edge of each wing. By moving ailerons of each wing in opposite directions (up and down) and changing aerodynamic lifts of each wings, the pilot is able to force the aircraft to roll left or right.
2. Spoilers are also control surfaces mounted on the wings next to ailerons. Spoilers are used to reduce lift by disturbing airflow over the wing. If the spoilers of each wing are symmetrically raised in flight, the aircraft descends. By raising asymmetrically, spoilers can be used to bank an aircraft either in combination with or instead of ailerons.