



CRP Technology at the Conference "Supply on the Wings" Will Be Introduced to the Aerospace Composites World



November 13, 2008 - CRP Technology is taking part in the third international conference "Supply on the Wings," which operates using the slogan "Aerospace - The Driver for the Industry." The company will be included in the conference theme "Aerospace Composite World."

Eng. Livia Cevolini will present on 13th November a case-study related to the Rapid Prototyping application in the aerospace sector: Windform GF and SLS Technology. The project concerns the 1:8 Scale Wind tunnel model of the external fairing of the European TILTROTOR.

Among the most interesting and significant applications in the aerospace sector, developed thanks to the collaboration of CRP Technology's partners, is without doubt the wind tunnel model of the European TILTROTOR, created by the Rapid Prototyping Department of the company. The wind tunnel model has been designed and projected by Sistemi Dinamici Spa for AgustaWestland.

This project allowed, once again, to highlight the perfect union between RP technology and WINDFORM materials. Thanks to WINDFORM materials, it was possible to complete and test the model in the wind tunnel within a very short time, with excellent results and with really high-performing mechanical and aerodynamic properties. Materials with such characteristics are crucial because of the applied loads. The air flow in the tunnel reaches a speed up to 50 m/s resulting in very high aerodynamic loads.

In addition, CRP Technology has been able to maintain good dimensional tolerances with components having large dimensions ($L = 2$ m) under load. The parts of the fairings don't deflect very much under load and even when there are no external loads. The parts must have dimensional characteristics similar to the supplied specifications even under these conditions. The performance of these parts affects the final performance of the entire project, especially because the external fairings have to properly transfer the aerodynamic loads generated by the fuselage to the internal frame.

Rapid Prototyping combined with WINDFORM GF material has proven itself to CRP Technology's project partner, thanks to its very short manufacturing time and the beneficial properties of the material.



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