Sagem introduces SkyNaute, a new family of aircraft navigation systems

Paris Air Show, Le Bourget, June 15, 2015

At the 2015 Paris Air Show, Sagem (Safran) is unveiling SkyNaute, a new-generation family of inertial navigation systems for all types of aircraft: mainline and regional jets, business aircraft, helicopters and drones.

Designed to meet growing demand for contained costs, SkyNaute is based on a disruptive technology, the hemispherical resonator gyro (HRG), allowing Sagem to offer a compact navigation unit with ultra-high reliability and lower cost of ownership.

Designed primarily to meet the needs of the civil aviation market, SkyNaute offers an advantageous solution in relation to previous-generation inertial navigation systems. It draws on the success of the resonant sensor-based navigation systems developed by Sagem, and already deployed for the last dozen years on space, naval and land platforms.
Several test flights on commercial airplanes and helicopters have confirmed Sagem's decision to base its new family of aircraft navigation systems on hemispherical resonator gyroscopes.

The SkyNaute family is available in different versions to match the needs of different types of aircraft: mainline jets, regional and business aircraft, helicopters and drones. These units can be provided in a hybrid configuration with navigation satellite sensors, and can operate autonomously, as required by aviation regulations. According to Joël Berkoukchi, head of Sagem's Avionics division, this product family offers a very competitive alternative to current solutions, with reduced maintenance costs for today's platforms.

The SkyNaute family will be produced in the Coriolis facility at Sagem's Montluçon plant in France, which already handles the integration of all Sagem navigation product lines for both civil and military customers.

Sagem has developed proven expertise over the last 80 years in all inertial navigation technologies – mechanical, laser, fiber optic, resonant, MEMS (micro-electromechanical systems) – for weapon systems and civil aircraft around the world, operating on land, at sea, in the air and space, even in the harshest environments.

Sagem’s new SkyNaute family is on display at the Safran stand (Hall 2A)

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Sagem, a high-tech company of Safran, holds world or European leadership positions in optronics, avionics, electronics and safety-critical software for both civil and military markets. Sagem is the No. 1 company in Europe and No. 3 worldwide for inertial navigation systems (INS) used in air, land and naval applications. It is also the world leader in helicopter flight controls and the European leader in optronics and tactical UAV systems. Operating across the globe through the Safran group, Sagem and its subsidiaries employ 7,500 people in Europe, Southeast Asia and North America. Sagem is the commercial name of the company Sagem Défense Sécurité. For more information: www.sagem.com

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