



NEWS RELEASE

Mail: P.O. Box 211258 Eagan, MN 55121 USA

Tel: 651-238-5369

Web: www.stavatti.com

18 November 2008

Stavatti Announces Development of SM-282 VTOL ISR UAV

On Tuesday, May 5th, Stavatti Aerospace announced development of the SM-282, a new Vertical Takeoff and Landing (VTOL) Intelligence, Surveillance and Reconnaissance (ISR) Unmanned Aerial Vehicle (UAV). This portable UAV is intended for detecting IEDs in urban and non-urban settings, insurgent identification, monitoring troop and insurgent movements, tactical/field reconnaissance, and other ISR tasks.

The UAV consists of an aft-mounted high-aspect ratio wing, a forward-mounted high-aspect ratio canard, and a streamlined, elliptical toroidal planform lifting-body fuselage. Powered by a single, dorsally mounted 107-lb. thrust SWB-100 turbojet, the UAV features two 60-in diameter, 36-blade, contra-rotating tip-driven fans mounted in the fuselage perpendicular to the line of flight.

These fans provide sufficient vertical thrust to enable VTOL operations at typical SM-282 gross weights. Driven by high-pressure air diverted from the SWB-100 turbojet, the UAV applies technologies pioneered by the Ryan XV-5 for reduced-risk VTOL while providing efficient, high-speed cruise. The SWB-100 powerplant uses an electrically driven diverter system to drive the tip-driven fans during VTOL, and in hovering flight and provide forward thrust during cruise and conventional takeoffs and landings.

The UAV features a graphite composite fuselage, wings, canard and empennage with a ventrally mounted centerline vertical stabilizer and two wing-mounted outrigger stabilizers that serve as fairings for the main landing gear. With fixed landing gear, the UAV can operate from unprepared, forward locations and will use its VTOL capability or a runway for conventional takeoffs and landings in less than 325 ft. The UAV will have a maximum takeoff weight of approximately 261 lbs. including 111-lb. empty weight and 50- lb. payload. The UAV will feature a 35 KTAS stall speed, a 50-to-75 KTAS cruise speed, and a maximum level speed of 125 KTAS. Maximum range is 265 nm with maximum endurance greater than four hours.

Designed to carry a ventrally mounted L-3 Sonoma Model 12 DS/TS 200 Long Range Imaging System, the UAV may be equipped with a variety of mission specific sensor packages including SAR and "Sniffer" CBN sampling & detection packages. The powerplant uses batteries for system operation and self-start and runs on heavy fuel (JP-8). A GPS guided, autonomous, fly-by-wire system controls and monitors the vehicle through a Mobile Command/Control Station. Operation requires no specialized military operational skills. The platform will provide real-time video feed to the operator with data-link capability to provide real-time information to the Tactical Operation Center. Capable of remote control by radio frequency, the UAV will be operable with current systems including passive early detection systems, Vehicle Optic Sensor Systems, Counter Radio Electronic Warfare Systems, etc. Wings and canards are removable for transport.

The SM-282 UAV is designed for daily operation in harsh desert, arctic, maritime, and tropical environments for five years, equivalent to a 15,000 hour airframe life. Comments from Chris Beskar, Stavatti CEO:

The SM-282 is being developed as a privately sponsored corporate venture anticipating DoD, DHS, and NATO/Allied export needs. This highly capable VTOL UAV will provide rugged, affordable ISR capability.

Stavatti Aerospace is an innovative aerospace defense enterprise focused on the design, development, and production of next generation aerospace vehicles. Stavatti Aerospace is a division of Stavatti Corporation, a privately held American Corporation with a CAGE Code of 1DRG1.

Media Contacts

Please direct all questions to:

Chris Beskar
CEO
Stavatti Aerospace
651-238-5369
media@stavatti.com