

Bental Industries Develops a Breakthrough Unified Family of Starter-Generators (SG) for UAVs which Meets the Demand for Miniaturization While Delivering Top Performance and Reliability

Israel, August 2, 2007 - Bental Industries Ltd., Israel's Motion Systems House for defense and commercial applications, has introduced a family of unified Starter- Generators (SG) for UAVs. The SG starts the UAV's main engine and generates power for the platform's other systems.

The SG will be an innovative addition to Bental Industries' already extensive products for UAVs, mini UAVs and micro UAVs. It is developed in direct response to the needs expressed by UAV manufacturers for further miniaturization of elements, in order to reduce weight and space requirements as well as operator' safety.

The unified SG significantly reduces weight and volume requirements, critical factors in UAVs, and thus increases endurance. Furthermore, it is safer and simplifies operations.

The Starter Generator is the element which starts the platform's engine and then identifies that the engine is operating and, at that moment, switches the unit's operation automatically to a generating mode. Previously, this process was carried out by two separate devices: a starter and an alternator. The SG is a vital integral element in the engine, and is a far-reaching solution to the issues of weight and volume.

The "Starter Generator" system is comprised of three main components: The electromechanical machine which is attached to the internal combustion engine, the Driver - The electronic unit that activates the Starter Generator as a motor at its Starter mode and the GCU (Generator Control Unit) - the electronic unit that converts the AC current generated by the Alternator. The system also content a control unit that switches the system from Starter mode to Generator mode after the engine is started before the UAV takes off and or during flight. The electronic units can be located in one case or separately, as needed.

The Starter Generator family supplies from 600 W up to 2.8 kW. The first SG was designed for the UEL 801/2 UAV engine. However Bental has designed more SGs for a range of unmanned airborne platforms".

About Bental Industries:

Bental Industries specializes in innovative motion technologies such as Brushless Motors, Permanent Magnet Generators, Electronic Drivers & Controllers, Servo Actuators, Stabilized Gimbal Systems and more. The company is the leading supplier in its field to Israel's defense

industries. Its products are also supplied to military, aerospace and industrial companies worldwide.

Bental's US Headquarters was established following the foundation of a Baltimore, Maryland company that was engaged in the manufacture of motion systems and motors for ground vehicles. Bental Inc. will spearhead Bental's marketing expansion in the US and other markets.

Bental's ability to tailor cutting-edge technology and innovative design to specific project requirements enables it to effectively respond to today's most challenging demands.

The company's products are integrated into various platforms and applications including: turret & gun control systems for AFVs, UAVs, missiles, jet engines, cryogenic coolers for thermal imaging systems, optical systems, rotational drives for large antennae pedestals, and more.

Among the many companies that have designated Bental Industries a preferred supplier are: IAI, Rafael, Raytheon, CybAero, Schiebel, ABB, Elbit Systems, Pall Aeropower, El-Op, Kodak (Creo), IBM, and Galileo Avionica.

For more about Bental Industries, please visit our website at www.bental.eu

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