

**FOR IMMEDIATE RELEASE**  
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**eCycle's hydraulic solutions based on SolidSlot™ brushless  
motor/generator; offer more power and flexibility**

**(Temple, PA January 26, 2007)** – eCycle, Incorporated has recently introduced new motor/pump sets based on its innovative SolidSlot™ brushless motor/generator. The result is a dramatic improvement for mobile hydraulic equipment, while simultaneously enabling applications that may have not been previously possible.

eCycle achieves these improvements by close coupling the SolidSlot™ brushless motor to a high efficiency hydraulic pump. This eliminates several components traditionally associated with inefficient DC power units ultimately delivering increased performance and efficiency.

The SolidSlot™ brushless motor/generator is named for its design, which replaces traditional copper windings with solid bars of aluminum linked together with copper end turns. Slot fill exceeds 90%, compared to less than 50% for traditional windings, resulting in machines with super low resistance, and thereby high current capacity.

Brushless motors can facilitate vastly improved hydraulic systems, with high efficiency, reduced mass and operating cost, as well as greater performance, flexibility and reliability. In most cases, eCycle's motors offer maximum flow with minimum current.

eCycle brushless motor/generators support bi-rotational operation, foregoing a number of complicated and costly peripheral parts, including valves, accumulators and reservoirs. Additionally, SolidSlot™ motors enhance both range and battery life. Unlike conventional DC motors, eCycle's motors can eliminate downtime and wear, and offer new levels of efficiency and control.

**eCycle Primary benefits:**

- Higher power density means reduced size and mass
- Maximum flow with minimum current
- Plug and play compatibility with many existing platforms
- Built-in electronic ramping and directional control
- Longer battery life
- No brushes or contactors means reduced maintenance
- No amplifier required
- Compatibility with 4F17 and SAE A2 flanges
- Continuous duty rated
- Available liquid cooling

eCycle's motor/pump sets deliver improved performance over conventional DC motors. Platform builders and operators can realize the benefits of this equipment while dramatically gaining overall system efficiency.

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**About eCycle ([www.ecycle.com](http://www.ecycle.com))**

Established in 1996 and located in Temple, PA, eCycle produces a line of advanced brushless motors and generators, which have a wide range of applications in commercial, industrial, and consumer markets worldwide, particularly for mobile applications.

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