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eCycle's components solve mobile hydraulics industry problems

Temple, PA – eCycle, Incorporated has recently introduced new hydraulic power units based on its CMG brushless motor/generator. The result is a dramatic improvement for end users of hydraulic equipment, especially in mobile applications.

eCycle achieves these improvements by close coupling the innovative CMG brushless motor to a high efficiency hydraulic pump. This eliminates several components traditionally associated with DC power units, while ultimately delivering increased system performance and efficiency. Most notably, the same performance is often provided by a *Silicon Series* motor using only 1/3 the current. Further, eCycle brushless motors are typically 1/5 the size of brush type DC motors.

“For mobile hydraulic applications, there are important advantages in using brushless motors,” said Dan Sodomsky, President and Chief Executive Officer. “High efficiency brushless motors that run on low voltage significantly extend operating time, such as in a forklift truck, while enhancing reliability and reducing maintenance.

According to Sodomsky, eCycle brushless motor designs support bi-rotational operation, thereby eliminating a number of complicated and costly peripheral parts, including valves, accumulators and reservoirs. Additionally, the motors have very low current draw, thereby increasing both the range and battery life in mobile applications. Unlike conventional DC motors, eCycle's motors can eliminate downtime and wear, while enabling new levels of efficiency and control.

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eCycle's brushless hydraulic solutions

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“eCycle’s hydraulic power units deliver improved performance over conventional DC motors,” said Michael Sharer, Vice President of Marketing. “Platform builders and operators can immediately and cost effectively realize the benefits of this equipment. Additionally, applications that were not possible using conventional DC motors may now be a reality”, he explained.

eCycle benefits:

- Higher power density means reduced size and mass
- Maximum flow and minimum current
- Built in electronic ramping and directional control
- Longer battery life
- No brushes or contactors means reduced maintenance
- No amplifier required
- 4F17 flange – compatible, other options available for larger pumps
- Continuous duty rated
- Available liquid cooling

eCycle hydraulic power units are available now. For more information visit www.ecycle.com.

Editor’s Note: Photos are available in electronic format. Please email Michael Sharer at msharer@ecycle.com with specifications.

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