

THINGAP® ANNOUNCES:
14" Brushless Ring Motor for Direct Drive Applications

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VENTURA, CALIFORNIA – June 4, 2009 – ThinGap LLC, a leader in high power density DC motors, today announced the TG14010 Brushless DC Ring Motor for direct drive motor applications. The TG14010 delivers smooth and controllable high speed/high shaft power without a gearbox.

“The TG14010 ring motor’s high power-to-weight ratio makes it ideal for direct drive ducted-fan applications in unmanned aerial vehicles and hub-mounted motors for unmanned ground vehicles”, said Greg Yordan, Manager of Engineering Services, ThinGap LLC. “The TG14010 is one of three powerful ring motors in ThinGap’s industry leading line of high efficiency coreless brushless motors.”

The TG14010 supplies 50 ft-lbs peak torque from a 3.7” length by 13.55” diameter package that weighs only 23 lbs. Very smooth and controllable acceleration and deceleration have been realized by eliminating hysteresis and cogging. System efficiency of up to 82% can be achieved with the TG14010.

The TG14010 provides a low profile platform that is quiet, cool running, and conserves energy with a gyroscopic effect that reduces vibration. In vehicle propulsion systems, the TG14010 may be mounted inside the wheel hub, which dramatically reduces space requirements and weight.

For a data sheet on the TG14010 ring motor, please visit:
<http://www.thingap.com/pdf/tg14010ds.pdf>

For more information, please visit www.ThinGap.com.

About ThinGap

ThinGap LLC designs and manufactures an innovative line of standard and custom brushless and brush motors for applications that require high power, efficiency, low weight, and small package size. The technology helps OEM’s innovate more powerful, efficient, responsive, controllable and precise products not possible with the use of conventional motors.

Since its first production motor was introduced in 2000, ThinGap has developed a complete line of brush and brushless motors for medical industry applications and such industrial applications as handheld power tools and fan/blower/compressor motors.

ThinGap has been granted seven patents and has thirteen patents pending. The technology allows high copper-packing density and higher copper-to-total stator-volume ratio than motors with conventional wire windings. By replacing the iron core/laminations and wire windings used by conventional motors with a precision thin copper sheet, the motors provide higher power-to-weight ratios, a wider range of speed and torque capabilities, improved heat dissipation and lower electrical resistance.

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