

THINGAP ANNOUNCES:
BRUSH MOTOR DELIVERS HIGH CONTINUOUS POWER
CAPACITY IN VERY SMALL PACKAGE

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VENTURA, CALIFORNIA – AUGUST 13, 2008 - ThinGap LLC, the leader in high power density DC motors, today announced the ironless core TGB2020 brush motor, which delivers up to 440 watts and 425 oz-in. peak shaft torque. The high continuous power capacity of this small diameter motor makes it ideal for driving low profile vehicles, power tools, and any load that requires a small cross section. Additionally, the TGB2020's provides high acceleration coupled with continuous high power.

"The TGB2020 packs more power in a much smaller package – 2-inch diameter – allowing engineers to design more efficient and smaller products," said Rean Pretorius, president & CEO, ThinGap LLC. "Our ironless core brush motor technology with high power density enables an extensive range of speed and torque for a broad range of applications."

In blower and thruster applications, the motor provides a low frontal area minimizing drag within air or liquid movers. The sealed version of the motor provides high efficiency for longer battery life and is well-suited for undersea thrusters. For applications with space constraints, where efficiency and drag are important, the TGB2020 motor provides an excellent solution. Other important characteristics of the motor include low inertia and high bandwidth.

The TGB2020 is only 2-inches in diameter by 5.3-inches long. It features rare earths magnets with a high copper density, ironless coil, which provides excellent heat dissipation, low losses, zero cogging, low inertia, and superior power to weight and size ratios. The motor allows a maximum efficiency of 90%. Brush life is excellent because of the low inductance of the ironless coil. Brush-eroding arcing is minimal at very high current and speed. Low winding resistance makes the motor ideal for battery-driven applications where resistance limits power output from the battery.

For a data sheet on the TGB2020 ironless core brush motor, please visit www.thingap.com/pdf/tgb2020ds.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 eighteen 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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