

## THINGAP® ANNOUNCES:

### TGB 1612 Brush Motor for Industrial, Professional & Portable Tools

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VENTURA, CALIFORNIA – DECEMBER 9, 2008 – ThinGap LLC, the leader in high power density DC motors, today announced the TGB1612 brush motor for industrial, professional, and portable tools. From an especially compact package size the TGB1612 delivers high torque and high shaft output making it an ideal solution for a wide range of heavy-duty applications.

“The compact TGB1612 brush motor delivers rapid acceleration and plenty of power for the most demanding applications,” said Shelly Ward, Director of Application Engineering, ThinGap LLC. “The TGB1612 motor helps fill out ThinGap’s growing line of brush and brushless motors for applications that require compact size, high torque, high power, and/or energy efficient solutions.”

The TGB1612 brush motor delivers 110 oz-in. peak torque and 170 watts continuous power from its 1.5” diameter by 2.61” length package yet weighs only 12 oz. The TGB1612 motor features smooth, controllable power due to its zero cogging and hysteresis torque. The efficiency of the TGB1612 has been improved by eliminating the wire windings and iron core/slotted laminations that reduce efficiency and output power.

The low inductance coil allows current to respond quickly to sudden voltage swings. For example, torque builds as fast as the current rises in a rotor with very low inertia. As a result, rotor acceleration is doubled compared to a conventional motor.

For a data sheet on the TGB1612, please visit <http://www.thingap.com/pdf/tgb1612ss.pdf>

For more information, please visit [www.ThinGap.com](http://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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