Media Release

High Torque Brushless DC motor for hand tools.

A high torque brushless DC motor with an 18V DC winding suitable for cordless hand tool applications.

Why are hand tool manufacturers switching to brushless DC motors? The answer is lifespan and battery life. A brushless DC motor simply does not have traditional carbon brush systems or even the lifespan improving precious metal brush systems to wear out. Brushless DC motors use electronics to phase the power around the motor windings. Traditionally hand held power tools running on 18V DC batteries use very high current brush style DC motors. Whilst these motors produce high speed and torque levels required on cordless power tools, they draw very high currents from the battery reducing its lifespan and the number of cycles required before re-charging. Until now, brushless DC motor technology from high quality manufacturers has been focused mainly on application areas such as medical and aerospace. The brushless motors developing the high speeds and power levels for these markets were typically coreless design two pole motors. Recently developed technology that has allowed the increase of the number of motor poles and the lowering of the motors winding resistance specifically for use with 18V DC Lithium batteries, has allowed for the design of high torque, high speed brushless DC motors that are a suitable alternative to the brushed DC motors in industrial cordless power tools.

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The media release is available on the internet at: www.maxonmotor.com.au

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