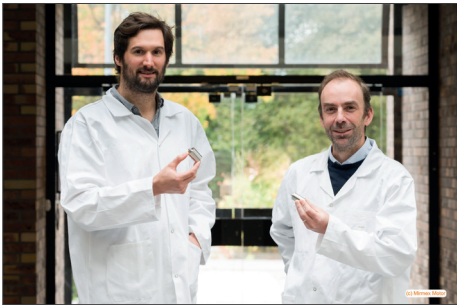




Highest Power Density Slotless BLDC Motor Windings from Mirmex Motor



Initially started as a research project in the Mechatronics's Engineering lab from UCLouvain, a top Belgian university, **Mirmex Motor** has successfully been able to manufacture a new type of **SBLDC** (Slotless Brushless DC)

motor windings for applications that require a higher power density than what's available today and/or cannot be served with today's limited offering found in motor catalogues.

The technology is based on getting rid of the manufacturing obstacles associated with traditional wire-based windings that require complex machines and a significant upfront investment.

Given a higher degree of design freedom, new winding topologies can be created based on flexible printed circuits and an AI engine developed by the company that is capable to determine the optimal winding topology out of millions of possible combinations. Such new topologies are based on the work of **Prof. B. Dehez** and **Dr. F. Baudart**, who are inventors of the aforementioned patent.

This technology enables motors to be more compact, provide a higher dynamic and help engineers easily migrate their slotted motors to a slotless architecture, a growing trend in the industry given the no-cogging and higher torque feature they provide.

The windings from Mirmex can be sourced as OEM parts, frameless, or fully-assembled motors.