



Kumar Rajasekhara
President & CEO of Marsilli North America

Kumar Rajasekhara holds a degree in Mechanical Engineering - Machine Design Concentration - from the University of North Carolina (Charlotte) and a MBA in Marketing and Finance from Loyola College in Maryland. He started his professional career as a Machine Design Engineer for packaging and steel companies. For the last 36 years, he has been working in the coil and motor winding and automation industry in engineering, sales and operations positions. He was appointed as President & CEO of Marsilli North America in 2004.



Paolo Omenetti
Sales Manager of Marsilli North America

Paolo Omenetti holds a Master of Science degree in Mechanical Engineering from Università Politecnica Delle Marche (Italy). He spent most of his career working with EOL testing and assembly equipment. He is now working for Marsilli North America as Sales manager for the US, Mexican and Indian markets. His long experience in the motor industry allows him to understand motor manufacturers' needs and to find the right motor winding and assembly solutions for their projects.

Innovative solutions for e-Traction Motor and Battery Cell Connection System

This session presents some of the newest Marsilli innovations for e-Traction motor and electric batteries that can shape the future of electrification.

The first part, held by Mr. Rajasekhara, is dedicated to the new Distributed High Density (DHD) winding technology designed by Marsilli to be a more efficient alternative to the distributed motor winding technologies currently available on the market (insertion and hairpin). Marsilli has designed and made two 75kW DHD-wound prototypes, which have been tested on test benches by two renowned Universities with results in term of efficiency and power that outperform the ones calculated with the theoretical model. The data gathered has been also used in a comparative analysis with a hairpin-wound motor model of the same size and specifications.

The second solution presented for e-Traction motors concerns the winding technologies for high performing rotors free from rare earth materials and their drawbacks.

Finally, Mr. Omenetti presents a Battery Cell Connection System solution for Lithium-Ion batteries designed to be a more convenient alternative to the technologies available on the market that use wire harnesses or flat cable (FPC/flex) for the connection of the battery cells. This solution is fully automated, scalable and designed to reduce the direct production costs.