



It's Easy Going Green with Parker

Traction motors for EV and HEV drive trains offer small carbon footprint.

No longer a fringe movement practiced by a relative few, “going green” has become a critical part of business and of ensuring a healthy planet for coming generations. And like many segments of the marketplace, Parker Hannifin is hearing from more and more customers who want motion and control solutions that offer high performance while respecting the environment. Taking the lead in this trend are innovators in the field of vehicles powered by alternative energy. To answer their need for a dependable mix of high function and low emissions, Parker will soon be offering a new line of traction motors: the MPT.

Based on the design of our popular MPP servo motor family, MPT motors are being developed with electric and hybrid electric vehicle drive trains in mind. In fact, these traction motors are currently being evaluated, tested and specified on EV and HEV programs around the country. The MPT's technology will lead the way in performance, efficiency, manufacturability, quality and flexibility.



Parker's new MPT traction motor.

Let's take a closer look at the MPT.

Breakthrough performance. The MPT is built around permanent magnets and segmented laminations. It offers innovative heat transfer optimization and patent-pending cooling technology. With a peak power density of 3.76kW/kg and a continuous power density of 2.3kW/kg, the MPT is a genuine revolution in performance.

Highest efficiency. The MPT's 97% efficiency is achieved by incorporating the highest-efficiency component technology and design: a very dense, high copper-fill factor; low pole count, thin stator laminations and reduced slot stator construction. This all translates to a smaller carbon footprint and extended travel range.

Proven manufacturability and quality. Our field-proven quality yields 55,000 hours of continuous operation – that is equal to 1.1 million miles of vehicular travel at 20 mph. Moreover, the MPT is built in a state-of-the-art manufacturing facility that offers cost-effective, US-based production of all traction motors.

Broadest scalability. Four mechanical frame sizes are readily extendible. The extrusion-based housing, internal design and assembly methods give unmatched flexibility to scale the output power quickly. Available in more than 15 sizes, the MPT gives users peak output from 25kW to 375kW. Parker's proven design has the most utility of any motor for the EV/HEV drivetrain.

For additional information about Parker's new MPT traction motors, please contact Jay Schultz at 707-584-2417 / jschultz@parker.com.

www.parkermotion.com