

# UK-based Yasa Motors develops 738bhp motor surpassing industry benchmarks for power density

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**Yasa plans to produce 50,000 units annually, marking a milestone in high-performance electric motor design**

UK-based Yasa Motors, which is owned by Mercedes-Benz, has developed a motor weighing just 13.1 kg that claims to produce 738bhp, resulting in a power density of 56bhp per kilogram. This figure surpasses the industry benchmark of 20bhp per kilogram and is more than double the power-to-weight ratio of current production electric motors such as the Equipmake HPM-400, which provides 54bhp per kilogram and is utilized in aerospace and marine vehicles.



*Source: Getty Images*

Yasa achieved these results during prototype testing without using exotic materials or 3D printing techniques. Tim Woolmer, chief technology officer and founder of Yasa, emphasized that this achievement demonstrates the potential of combining deep technology, research and development, and practical engineering. The innovation showcases a scalable and production-ready electric motor design.

Yasa plans to produce up to 50,000 units annually at its Oxfordshire, UK, plant once the motor receives approval for production. The company regards this unofficial record as a significant milestone in high-performance electric motor design. Specific details regarding the production timeline and potential vehicle applications remain undisclosed. Yasa supplies motors to automotive companies such as Lamborghini, Mercedes-AMG and Ferrari.

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