

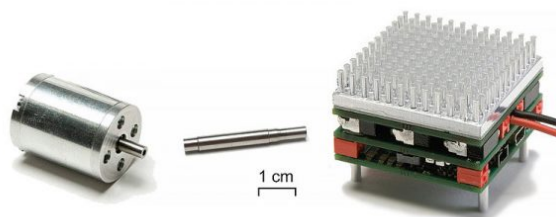
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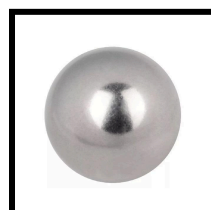
1 Million Rotations

In collaboration with the Leutkirch motor manufacturer ATE System and researchers from the ETH Zurich (Swiss Federal Institute of Technology), Myonic has successfully surpassed the remarkable milestone of achieving one million revolutions per minute with an electric motor. This groundbreaking accomplishment sets a new world record for the highest rotational speed ever attained. The initial prototypes are already operational, marking a significant advancement in motor technology.



The demand for increasingly higher speeds in applications involving rotating parts, such as medical drills, material processing spindles, and automotive compressors, necessitates the development of electric motors capable of driving these components efficiently, directly, and with precise control. Industrial motors, until now, have been limited to a maximum of 300,000 revolutions per minute.

Now, through a joint effort between Myonic, ATE, and ETH Zurich researchers, a revolutionary motor has been created that surpasses one million revolutions per minute (equivalent to 16,667 revolutions per second) – an extraordinary world record. Despite its exceptional performance, the motor maintains a compact size, hardly larger than a matchbox. It generates an impressive 100 W of power. The design incorporates ball bearings specially optimized for high rotational speeds, while the rotor construction features a titanium casing capable of withstanding



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extreme centrifugal forces. With low-friction bearings and a stator designed for minimal energy loss, this motor achieves the utmost efficiency.

This remarkable breakthrough in rotational speed development unlocks unprecedented possibilities for potential users, expanding the dimensions of applications beyond imagination.

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