

Reluctance Magnetic Gear – Magnetic Gears, no longer toothless

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In the following paper a new and novel magnetic gear based on the reluctance principle is presented and compared to both modern magnetic gears and mechanical gears in terms of performance, reliability and features. Design, simulations and tests performed are presented in details. The reluctance gear is not a direct competitor to mechanical gears, but it expands the application range of gears in general. Compared to other magnetic gears, it provides a more reliable and robust system.

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