Outrunner or Inrunner BLDC motor?

New BLDC design has the advantages of both outrunner and inrunner brushless DC motors.

Outrunner motors offer many advantages, the biggest of them being the maximised distance from the shaft centre to the flux gap of the motor creating a larger lever arm effect from the torque production location to the axis. The larger diameter of outrunner motors therefore gives typically very good torque characteristics. There are also disadvantages of BLDC outrunner motors. The externally rotating rotor and static internal stator is a particular concern in any equipment that is operating near people or in harsh environments. This new design offers an “internal external rotor” that is contained in an aluminium or optional sealed stainless steel motor housing. There are other additional advantages for the new design. The design contains a unique internally mounted 4096cpt incremental encoder and can be assembled with high torque ceramic planetary gearheads, producing a positioning drive system with a slow motion high torque focus. Applications in process control, valve actuation and industrial machinery are particularly suitable for this new motor.

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