

A Wealth of Experience Using FEA = Precise Magnets and Magnetic Assemblies

Our engineers have a wealth of expertise and experience in designing magnetic circuits using finite element analysis (FEA). We optimize the designs of magnet systems using powerful state-of-the-art 2D and 3D FEA software. Our deep understanding of magnetic design principles and magnetic materials, combined with our extensive computer simulation skills, help you, our customer, obtain the precise magnets and magnetic assemblies you need.

Why Use FEA?

FEA offers many advantages over traditional trial-and-error prototyping, helping you bring your product to market faster. Consider the following:

- FEA is more cost effective than making prototypes.
- FEA can provide faster solutions than prototyping.
- FEA enables designs to be optimized. More alternative designs can be examined to improve quality, increase product life and customer satisfaction.

At Electron Energy Corporation, we've applied our design expertise to electric motors, generators, magnetic bearings, magnetic couplers, magnetic seals, guidance systems, mixers, traveling wave tubes and medical devices for private-sector customers and government agencies. We strive to forge a close partnership/working relationship and be a perfect extension of our customers' engineering departments. Our strong engineering capabilities have made us the industry leader worldwide, and we are continually developing new products to meet changing customer needs.

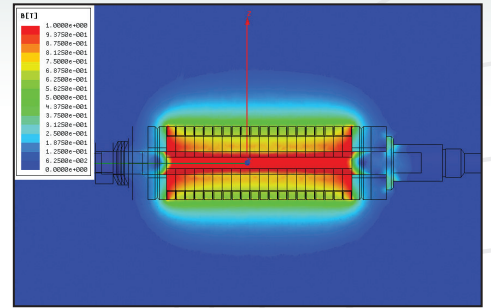


Rotor for high temperature application

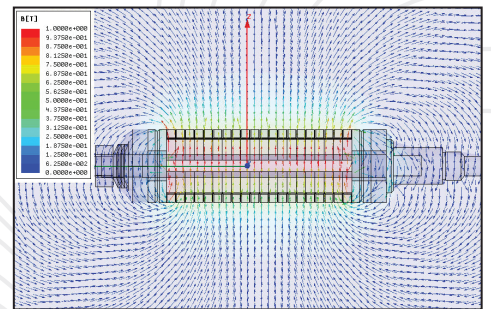
To learn more, visit us at www.electronenergy.com
or call to speak to a specialist at 717.898.2294

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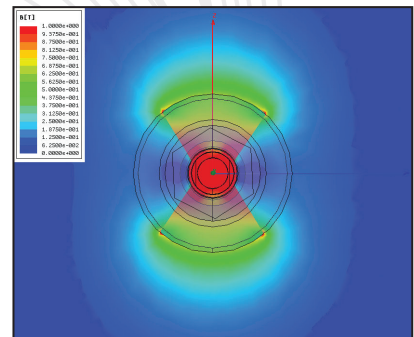
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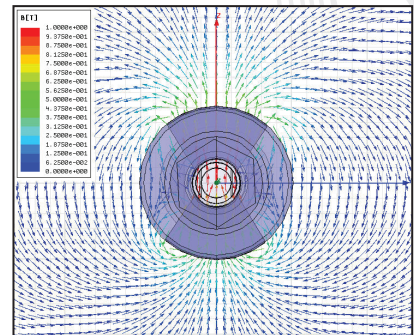
Magnetic flux density B distribution plot on the cross section of BLDC rotor



Magnetic flux density B vector plot on the cross section of BLDC rotor



Magnetic flux density B distribution plot on the middle plane of BLDC rotor



Magnetic flux density B vector plot on the middle plane of BLDC rotor