



VIRTUAL SEMINAR

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Industrial development of magnetic components

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Magnetic component can be defined as a part with defined geometry of stable magnetic field strength and density which deliver utilisable stray field in motors, actuators, sensors and other applications. In the talk, some case studies will be presented along with some strategical restrictions which define strategy of industrial development of thermoplastic based NdFeB and Sr-Ferrite magnetic materials.

Case study (example)

Definig magnetic geometry normally starts with anisotropic injection moulding tool as presented on a an image 1.

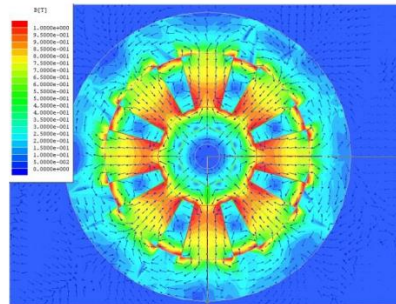


Image 1 : Moulding tool simulation.

Based on tool parameters, follows the simulation of a magnet which is to be produced, as show on image 2.

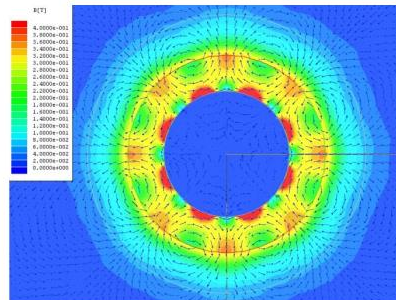


Image 2: Simulation of anisotropic injected magnet.

On simulations based parameters tool is constructed, tested tehcnology of moulding on a chosen magnetic material and a final part is manufactured (Image 3).



Image 3: Rotor for fuel pump (Pump manufacturer: Continental, end users: BMW, Porsche)

Kindly invited.