

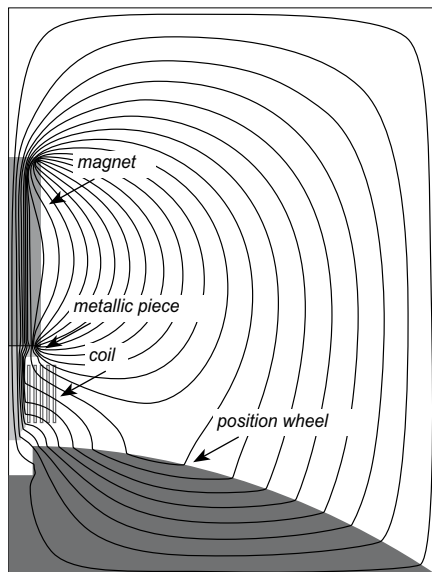
# Engineering Services

## Electromagnetic Characteristics of Magnetics

Our Engineers use advanced finite-element simulation software such as Flux2D and Flux3D to model, analyse and optimise the electromagnetic behaviour of existing or to be designed magnetics.

Typically, a given part optimisation project undergoes the following:

- 1- **Definition** of the mathematical problem: Taking into account the geometry and physical properties of the part
  - 2- **Simulation** of the device's electromagnetic behaviour: Verification of the simulated device by comparison of results with experimental measurements
  - 3- **Optimisation** of the simulated device: Functional analysis of the simulated model adjustments of its parameters
  - 4- **Validation** of the model: Definition, making and test of prototypes
- Examples of applications:** Pulse detector for energy metering. Induction heating system. High-sensitivity presence detector in an EMI environment. Neutral position transducer for fuel injection.



## Component optimisation through 2D/3D simulation

