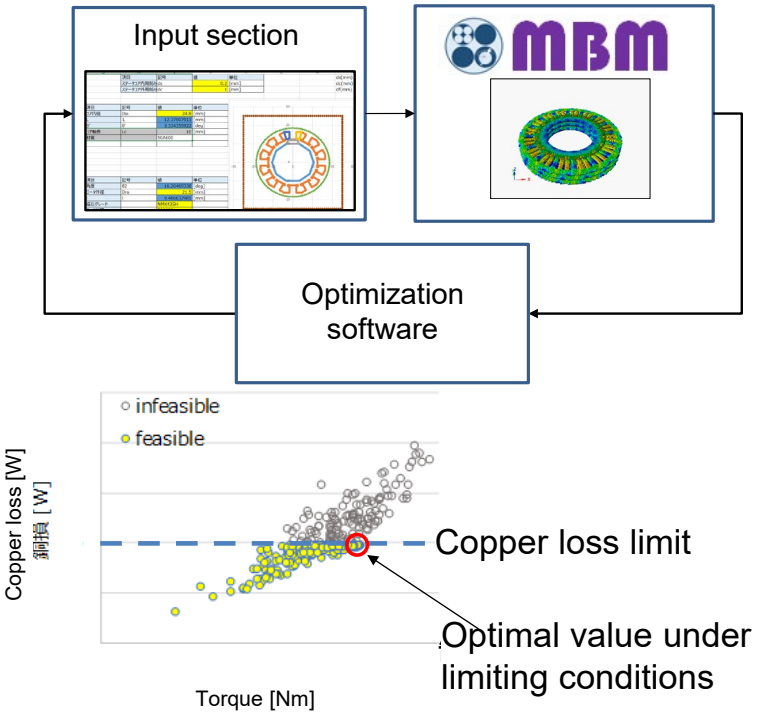
Optimum Design System for Magnetic Motors

Technology Research Center

- This automatic design system for motor magnetic circuits uses our unique magnetic field analysis software, "MBM: Magnetic Beads Method," along with optimization software.
- To **design a highly efficient motor**, it is necessary to use high-precision magnetic field analysis technology that enables accurate evaluation of losses and to identify optimal specifications under specified limiting conditions.
- The Magnetic Beads Method allows for magnetic field analysis of 3D actual unit shapes and is suitable for analyzing small and flat motors.
- Coordinating with optimization software **enables the optimal design of magnetic circuits** under various constraints.



Carbon Neutral Contribution points

- ✓ By conducting numerical experiments using **high-precision magnetic field analysis technology**, we can **eliminate the need for creating prototypes**
- ✓ **Designing an optimal magnetic circuit under various limiting conditions allows for the reduction of electricity consumption**

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