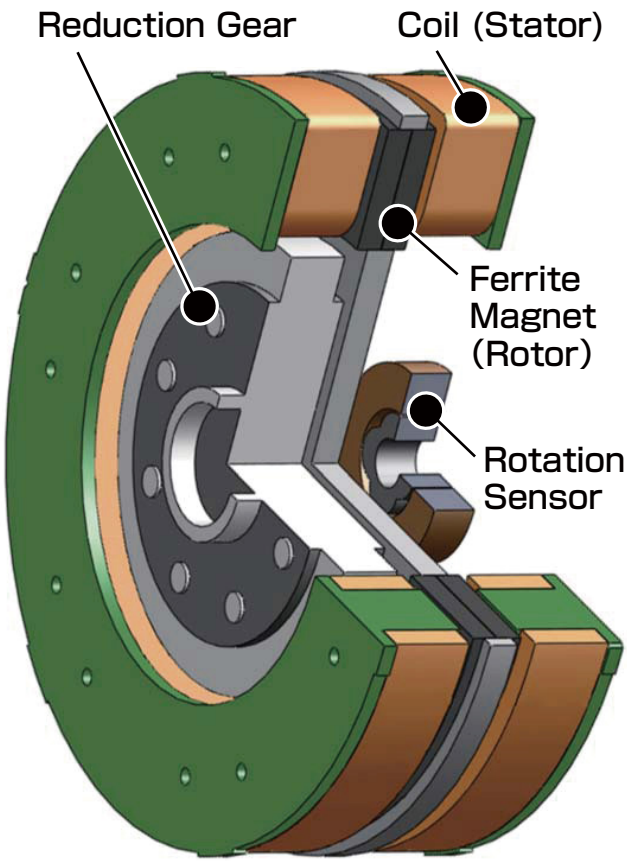
In-wheel Motor for EV

Under Development

As a part of our electrification technology efforts, we are developing a drive motor for small EVs. The motor is an in-wheel type that directly drives the tires and is differentiated from other companies' motors by adopting an axial gap structure with a flat shape instead of the usual radial structure. With a 'high-rotation and reduction gear design' it is compact, yet high-torque. The motor uses inexpensive ferrite magnets making it low-cost and is highly efficient thanks to our patented loss reduction method.

Motor Illustration

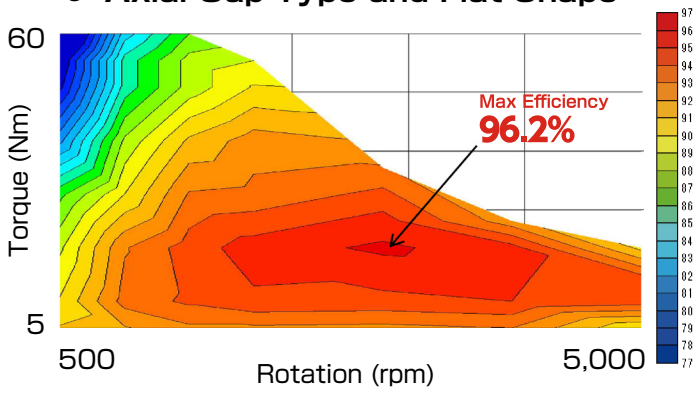


Summary

- Drive Motor of EV/HEV
- Performance of Ferrite Magnet Similar to Rare-Earth
- Applicable to Industrial-Use

Characteristics

- High Efficiency
- Cost Down
- Axial Gap Type and Flat Shape



Inverter

Photo Appearance

- Appliable to EV/HEV (In-vehicle)
- Design of High efficiency motor drive system for each Application
- Voltage range is 48～400V
- Air Cooling
- Contruction of switching surge suppression