

# Supporting the Development of Next-generation In-wheel Motors ～ Electric Current Sensor Module ～

次世代のインホイールモータ開発に貢献  
～ 電流センサモジュール ～

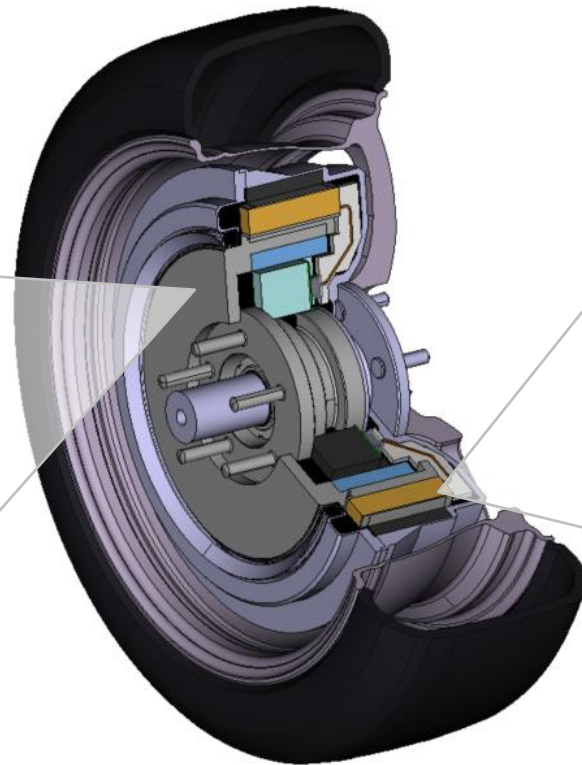
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# Collaboration between e-Gle and Tokai Rika

e-Gle

Creation of a world's first innovative electromechanical in-wheel motor that integrates a motor, an inverter, and a cooling system



 TOKAI RIKA

In-Wheel Motor Development.  
Current Sensor and Bus Bar  
Technology with current  
sensor and busbar technology

# Strengths of vehicles with e-Gle in-wheel motors



**Flexible packaging** Motors are mounted on each wheel, allowing for more freedom in designing the interior space of the vehicle, contributing to more interior space and additional storage space.

**Highly energy-efficient** The absence of reduction gears and drive shafts reduces transmission losses and improves power consumption.

**Quicker response** Because it drives the wheels directly, it provides faster acceleration and braking than a centrally located electric motor, resulting in a more dynamic driving experience.

**Torque vectoring** Individual motors on each wheel enable advanced torque vectoring. Vehicle operation is more stable and driving performance is improved.

# The current sensor and busbar are customizable according to the specification of the in-wheel motor

Progress

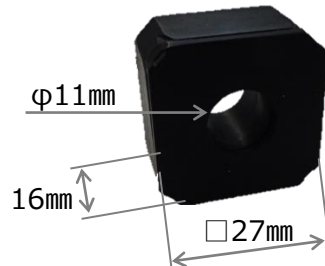
High precision  
Quick response

## Custom design

Optimal design is performed according to the in-wheel motor specifications. In addition, considering the ease of assembly, the peripheral parts are modularized. Compact size is possible by modularizing peripheral parts in consideration of ease of assembly.

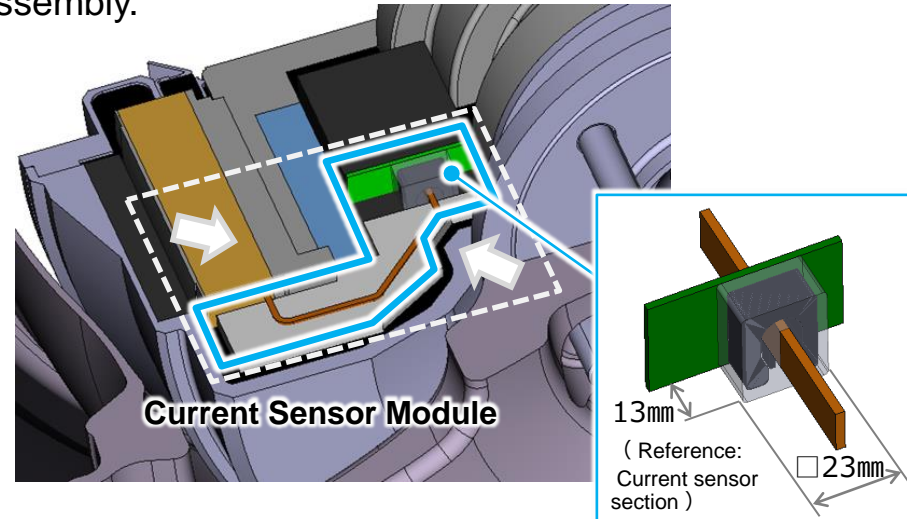
A next-generation current sensor is being displayed in the booth of Nepcon Japan.  
No. E30-22, East 4 hall

**Current sensor**  
(For our general purpose)



Covers small to large currents  
Performance with plenty of margin

**Busbar**



Lineup

Magnetic type

Next-generation type

 **TOKAI RIKA**