

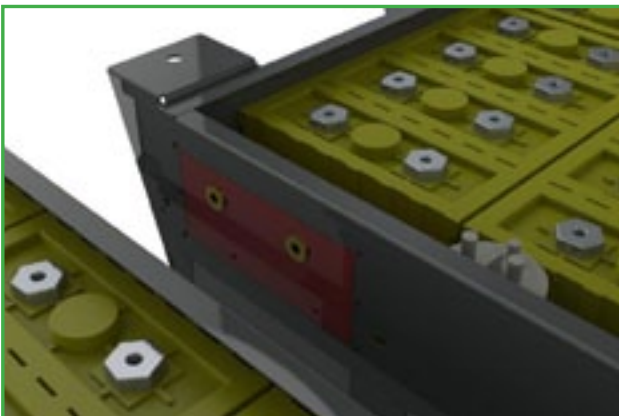
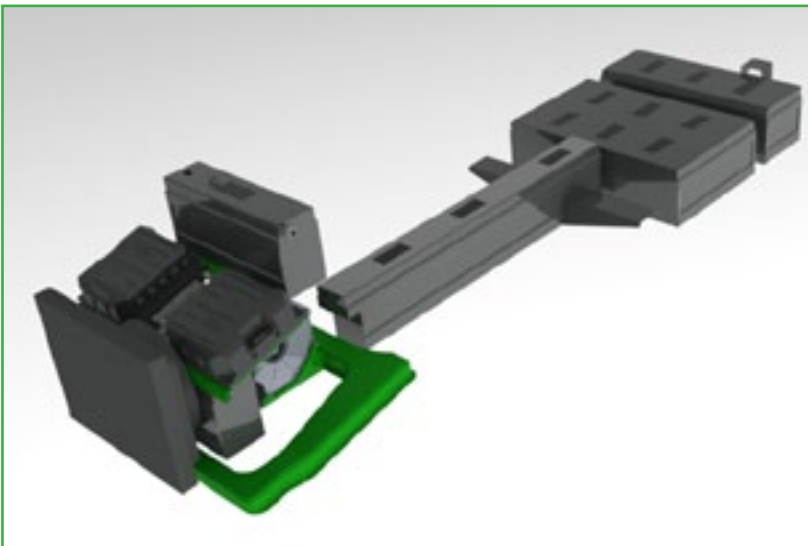
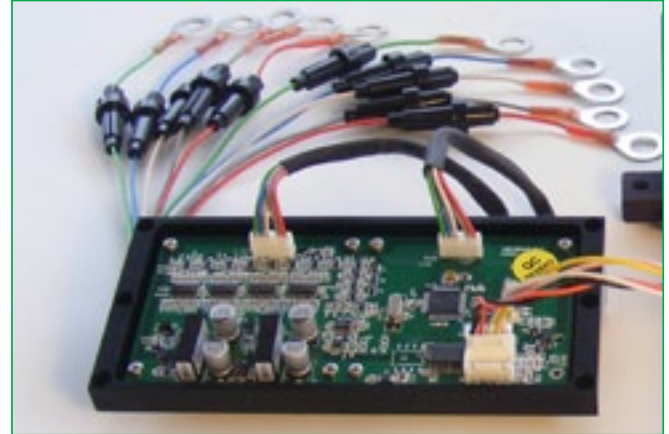


## Ashwoods Engineering Solutions

Ashwoods provides bespoke engineering solutions to vehicle manufacturers.

*“During our own vehicle development, we realised there was a lack of components that combined realistic performance with durability and value for money. Eventually, we decided to do it ourselves. With 1.4 million miles of real-world hybrid and electric vehicle data, we were extremely well placed to develop more efficient, robust supply chain components. This experience, allied to our proprietary systems, also makes Ashwoods a practical, cost-effective platform development partner for major vehicle manufacturers.”*

Mark Roberts, Managing Director Ashwoods



### Ashwoods Technologies

At Ashwoods innovation is at our core. Since the company was founded we have become a leader in the development of engineering solutions in the field of EVs and HEVs. The range and versatility of our products is a statement to our engineering capabilities:

- Hybrid Drive (the UK's best selling commercial vehicle hybrid)
- Ashwoods EcoDrive
- Ashwoods range of Axial and Radial Flux electric motors
- Ashwoods BMS and Battery Pack
- Ashwoods Hybrid Gearbox

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## Ashwoods Engineering Solutions

*Sharing our expertise with others and accelerating their developments is a natural evolutionary step.*

### In-house capabilities

- PCB Design
- Programming
- CAD design
- Prototyping
- Productionisation
- Electric Motor design and Manufacture
- Advanced Battery Management Systems and integration
- Simulation and Modeling- EV and HEV
- Testing

### Current Projects

- Full EV system integration – Passenger vehicle and Small commercial vehicle
- Low Magnet Content Electric Motor development
- Hydraulic Hybrid development for Commercial Vehicle
- BMS integration for large HEV application
- Pneumatic Hybrid Feasibility Study
- EV dashboard display

### System Integration

Ashwoods hybrid and electrical vehicle development projects focus on simple and cost effective vehicle integration strategies and are driven by achieving maximum market acceptability and scalability.

Our best selling Hybrid Drive is installed in under 4 hours. Electrical integration into the vehicle is fully plug & play with full CAN Bus integration.



### Real World Expertise

Ashwoods have developed unique HEV and EV simulation and modeling software in partnership with a leading drive train University. Real world development of accurate, advanced simulation software enables Ashwoods to speed up development for prototyping and production.

*Our philosophy offers customers reduced development costs and project duration.*



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