



Vehicle Integration



Lithium Carbon Battery Cell Technology

For driveability assessment, a physical working prototype vehicle will always provide the most convincing demonstration, even when detailed performance modelling has been conducted.



Range extender vehicle installation

Our knowledge and experience of carrying out detailed modifications to existing vehicles is vital in delivering high quality representative demonstrators. We adopt a cross functional, multi-disciplinary approach involving engineers and specialists from all of our key capability areas. Our involvement extends to all the major powertrain related elements including intake, exhaust, fuel and cooling systems.

- Design
- Verification & Analysis
- Purchasing
- Prototyping & Fabrication
- Powertrain Build
- Vehicle Build
- Performance, Calibration & Controls
- Vehicle Testing
- Small Series Production Vehicles



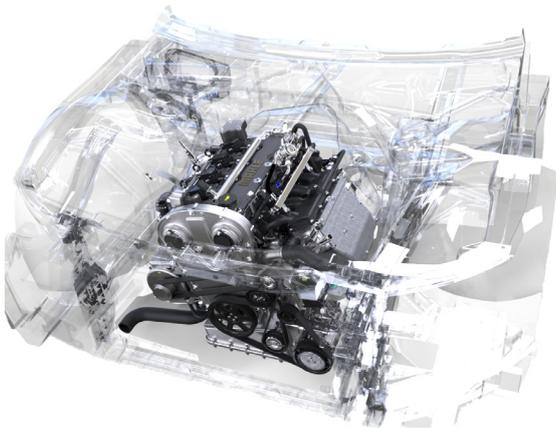
Ultra-fast charging capability
No rare-earth or exotic materials

Benefits

- Robust & reliable prototype vehicles for convincing demonstrations
- Rapid generation of vehicle control software & integration of disparate vehicle systems
- Application of MAHLE Flexible ECU (MFE) for both powertrain & body control functions
- Rapid transition towards production readiness
- A wealth of experience in a wide range of vehicle propulsion technologies
- Vehicle systems designed & built to production standards

What We Offer

- Highly experienced & skilled vehicle build technicians
- Fully equipped & secure vehicle build facilities
- Fully integrated product data management system
- Design & manufacture of bespoke components
- Direct access to one of the world's leading Tier1 suppliers
- Engine & vehicle control using MAHLE Flexible ECU
- On-site certified 4WD chassis dynamometer with full climatic & altitude capability



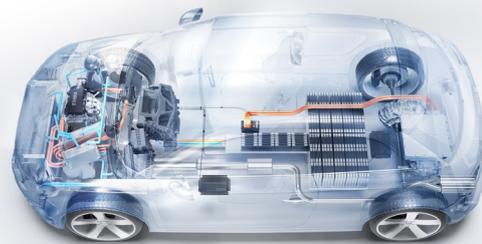
Typical engine installation



MAHLE Modular Hybrid Powertrain (MHP)

Summary

MAHLE Powertrain offers complete powertrain integration capability with a comprehensive systems approach. We have highly experienced project teams specialising in vehicle integration with a wide range of propulsion technologies.



Audi A1 internal view?