



**Your dedicated  
engineering partner**  
Diagnostics & Services –  
Engineering Solutions



We are your partner of choice for ...

# Professional expertise goes a long way

We're more than just a provider to our customers, we're their dedicated engineering partner. We help them navigate a constantly changing technological landscape by offering electrical development and diagnostic services and solutions. How do we do it?

**A long track record of engineering excellence.**

With many years of experience in diagnostics as well as system and functional integration, we have far-reaching know-how, based on a detailed understanding not just of technology, but our customers' products and processes as well. As an internationally recognized tier one supplier, we're also ideally placed to guide our customers with high levels of system expertise.

**An efficient, customer-centered approach.**

Using an integrated customer approach, our qualified team of experts and specialists is on hand to give all the support you need from one source. This means we can offer full system ownership or work together with existing engineering teams, giving your organization an efficiency boost.

**A flexible way of doing things.**

From diagnostics and software management to system and functional integration as well as electrical distribution systems, production design and simulation, we are your partner when it comes to flexible, cost-effective solutions delivered right on time. On top of that, we can provide our services at fixed rates, keeping your costs in check, and reduce the demands placed on your own workforce, allowing you to focus on your core strategy. Working together as partners, you can also profit from external expertise in developing new ideas and approaches.

**... on-board and off-board diagnostics solutions**

- › Diagnostics routine scripting and testing
- › Guided fault-finding for vehicle ECUs
- › Guided service functions for dealer servicing routines
- › Diagnostics service tools and test equipment
- › CAD for electrical systems and associated component packaging
- › Publication of designs and maintenance of building instructions
- › Creation and publication of customer dealer network service information



**... ECU system and functional integration**

- › ECU functional integration simulation, testing and validation
- › ECU system integration and on-vehicle testing
- › Provision and maintenance of system test rigs and simulation routines
- › Network simulation, testing and validation
- › HEV, PHEV and energy management
- › Design, testing and validation of high-voltage and low-voltage energy systems
- › Validation and testing of HV networks and systems
- › Battery and charger hardware and software validation
- › Whole vehicle network test, verification and release



**... wiring schematics and harness design**

- › Preparation and publication of wiring schematics
- › Power cables and panel harness design
- › Harness data publication and customer database management

CAD: Computer-aided Design  
 ECU: Electronic Control Unit  
 HEV: Hybrid Electric Vehicle  
 HV: Hybrid Vehicle  
 PHEV: Plug-in Hybrid Electric Vehicle



**Continental Aftermarket & Services GmbH**

Sodener Str. 9  
65824 Schwalbach  
Germany  
Phone: +49 69 7603-0

**Continental Automotive Trading UK Ltd.**

Unit 36, Gravelly Industrial Park  
Birmingham, West Midlands, B24 8TA  
UK

[info@continental-aftermarket.com](mailto:info@continental-aftermarket.com)  
[www.continental-engineering-solutions.com](http://www.continental-engineering-solutions.com)

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