

MAHLE Powertrain Vehicle Build & Test



State of the art facilities

Fully certified by the VCA

Leaders in RDE Development



Vehicle Build

MAHLE Powertrain's Vehicle Engineering Centre is fully equipped to undertake a wide variety of vehicle build activities to support external customers, research programs or internal projects.

Using experienced and skilled technical staff, our confidential and secure facility can offer:

- Vehicle scanning for package studies with FARO FaroArm™
- Body-in-White / chassis modifications
- Electrical harness design and manufacture
- Electrical system installation
- Independent control systems using MAHLE Flexible ECU
- ICE, Hybrid and BEV vehicles
- Vehicle instrumentation & data logging
- Preparation for emissions testing / catalyst swaps
- Benchmarking studies
- Secure compound for customer vehicles
- Fabrication capability

Contact us:

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MAHLE Product Information 08/2019

Vehicle Emissions Testing

MAHLE Powertrain has recently improved its vehicle test capability at its Northampton, UK headquarters to include a fully climatic and altitude capable 4WD chassis dyno capable of running Euro, US, Japanese and Chinese cycles in order to develop and validate RDE compliant vehicles.

- Horiba analysers for gaseous emissions, Pn/Pm
- FTIR for speciation work
- VCA certified to Euro 6
- Multiple soak areas at varying temperatures for test vehicles

Three Vehicle Test Chambers:

Chamber	EDC #1	EDC #2	RDE #1
Configuration	2WD	2WD	4WD
Environmental Simulation	25 deg C	-40 deg C to + 50 deg C	-40 deg C to + 60 deg C -100m to + 5000m barometric chamber
Emissions	Euro 6b	Euro 5	Euro 6c, US SULEV
Speed, Km/h	190	190	250
Force, N	8000	8000	6400 (12500) ¹
Power, kW	200	200	230/230 (450/450) ¹
Per axles limit, kg	2000	2000	2500

Vehicle PEMS Testing

MAHLE Powertrain's new PEMS testing capability complies with all the latest documented EU requirements and, with the ability to provide related support for the in-depth analysis of the resulting data, MAHLE Powertrain is clearly demonstrating its commitment to meeting our customer's vehicle development requirements now and well into the future.

- First company in UK to obtain VCA approved routes
- Routes start / stop from Northampton site
- 2 x Horiba OBS-ONE PEMS (Inc. PN) systems
- In vehicle equipment packaging
- Installations in over 60 vehicle types
- Testing on gasoline, diesel & hybrid vehicles
- Range of vehicles from 40kW to 400kW tested



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