

Bosch Engineering GmbH

Calibration of exhaust gas aftertreatment systems



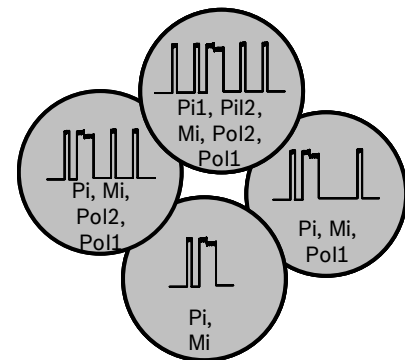
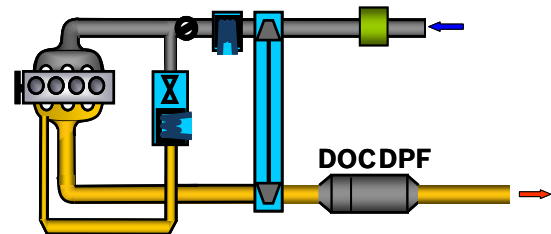
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Reduction of particulate matter

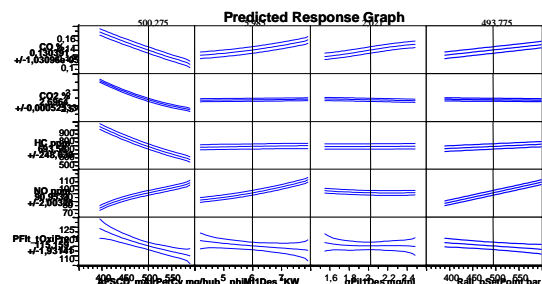
Modern Diesel engines are equipped with Diesel particulate filters (DPF) to reduce emission of particulate matter and fulfil present and future emission standards.

Bosch Engineering provides solutions for system layout, software development and calibration of particulate filter systems for passenger car, light duty and heavy duty applications based on modern calibration tools and methods.



Services particulate aftertreatment calibration

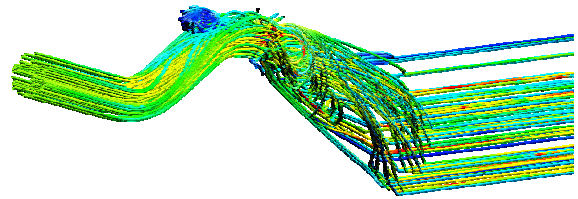
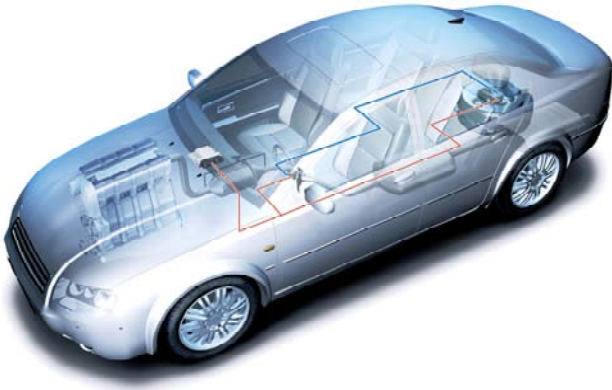
- System-, function- and software development for customer optimized DPF systems
- Layout of combustion strategy for particulate filter regeneration based on modern Design Of Experiment (DOE) methods to ensure DPF regeneration with low emissions, low fuel consumption and high engine performance
- Calibration of intelligent regeneration coordinator functions
- Calibration of DPF load detection
- Planning and realisation of summer- altitude- and wintertests



Reduction of nitrogene oxides (NOx)

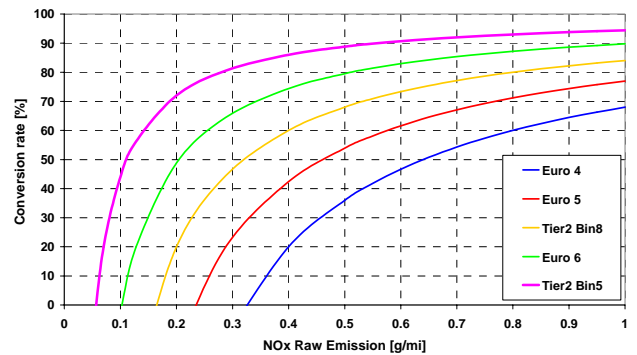
In many engine applications NOx aftertreatment systems will be necessary to fulfil future emission standards.

Bosch Engineering provides solutions for system layout, software development and calibration of selective catalytic reduction systems (SCR) and NOx storage catalysts (NSC) for passenger car, light duty, heavy duty and off highway applications.



Services for NOx aftertreatment calibration

- CFD simulation of ammonia distribution before SCR catalyst to ensure highest conversion ratios
- Layout and calibration of combustion strategies for rapid catalyst heat up (SCR systems) and NSC regeneration
- Calibration of coordination of engine operation modes
- Catalyst temperature model calibration
- Calibration of NSC loading models
- Calibration of urea heating strategy (SCR system)
- Planning and realisation of endurance tests



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