

## OUR IDEAS FOR YOUR COMPANY

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Nowadays the engine and automotive development is more exiting and more rapid than ever before. The functioning and the operating performance of gasoline and diesel engines need to be further researched and developed. The energy and drive technology is tradition at the University of Applied Sciences THM, where the TransMIT Center of combustion engines is located. Engine or rather chassis dynamometer as well as demonstration and model engines allow constant research and development.

## OUR SERVICES / OUR PRODUCTS

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Project management and technical consultation for development projects but also for in-house and order development around engines and engine components are offered, as well as the construction, the building and the operation of engine and component test benches. Also the function testing of fuel and lubricant can be supported. A further focus is the investigation of injections of modern CR diesel engines.

- Optimization for engine manufacturer
- Support for Suppliers
- Development for fuel and lubricant oil manufacturers
- Capacity adjustment in the engine development



Combustion engine designed and optimized  
for racing

## WHO WE ARE

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Prof. Dr.-Ing. Claus Breuer is the leader of the TransMIT Center for combustion engines. He studied mechanical engineering at the University of Hannover and collected ten years of industrial experience, especially in the area of engine development. 2004 he started researching and teaching at the department of engineering, mechatronics, material technology of the THM in Friedberg. His departments are combustion engines as well as the tribology. He

is responsible for the laboratory of combustion engines and the THM engine laboratory "Team Efficiency". The latter he supports from 2009 on by instructing the student team in the construction of energy-efficient automobiles. The laboratory team of Prof. Dr.-Ing. Breuer is composed by a total of three employees, two graduate engineers with focus on combustion engines and one car electrician or rather mechatronics engineer with a masters. All three employees of the laboratory additionally have many years of work experience at the THM and support projects of the TransMIT Center for combustion engines as required.

## REFERENCES / FURTHER INFORMATION

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The Center for combustion engines has considerable automotive and engine manufacturers – not only from Hesse – as its partner and has international partners from the engine supply industry as well as engineer service providers as clients and offers from technical advice e.g. for efficiency enhancement over the development of experimental setups up to damage appraisals (for large engines).

## CONTACT

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