„It does not make sense to run your head through the wall, but instead to use your eyes to find the door.“

Werner von Siemens (1816-1892), German inventor and entrepreneur

Your Expert for Combustion Analysis

Your Expert for Combustion Analysis

MCTECHS | INNOVATIONS & SERVICES
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MCTECHS
INNOVATIONS & SERVICES

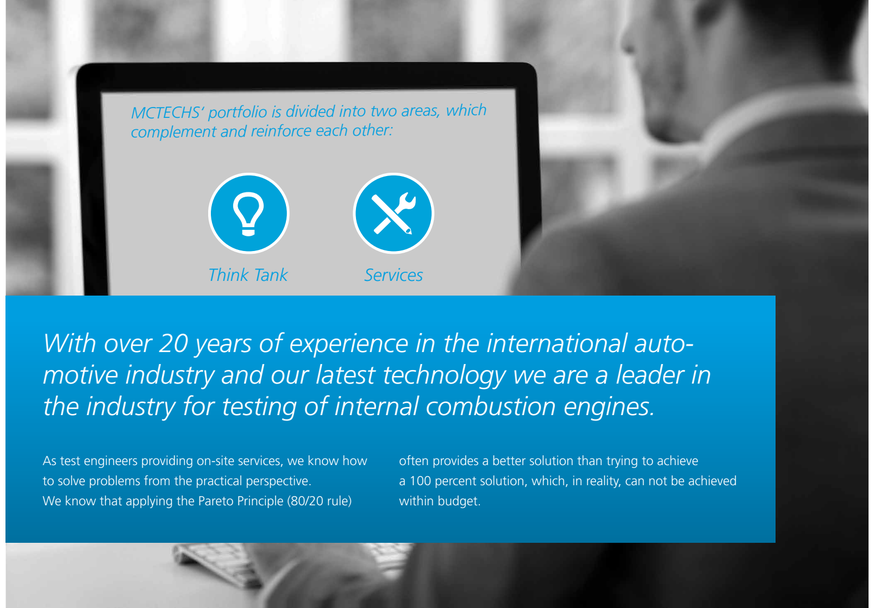
Think Tank

The core is a creative think tank, which produces new innovations. With the help of feasibility studies, these innovations are prepared for testing in the proto-type stage (Proof of Concept), which is necessary for the return on investment calculation for our customers.

Our think tank helps companies develop new and innovative products - a relief for companies who lack the capacity to develop new products because they are often so busy with the maintenance of existing products.

We currently offer assistance with the following:

- New form of representation for combustion analysis data
- An automatic instrument configuration for heterogeneous TCP / IP networks (Office, test-beds and in-vehicle devices)
- New approaches for the evaluation of large amounts of data (big data mining)
- A system-wide product approach for large testing facilities of internal combustion engines
- ... and other initiatives we are still developing.



With over 20 years of experience in the international automotive industry and our latest technology we are a leader in the industry for testing of internal combustion engines.

As test engineers providing on-site services, we know how to solve problems from the practical perspective.
We know that applying the Pareto Principle (80/20 rule) often provides a better solution than trying to achieve a 100 percent solution, which, in reality, can not be achieved within budget.

Services

We have a lot of experience in the field of combustion analysis, working on powertrain test benches and in-vehicle testing. Check us out!

- Combustion analysis
  - Standard evaluations
  - Synchronization with ECU measurement data
  - Heat release rate
  - Gas exchange analysis
  - Determination of residual gas mass fraction and scavenging mass flow
  - Efficiency losses
  - Design of gas exchange units
  - Engine performance development
- High-transient measurements at internal combustion engine
- ECU calibration
- Test driving / Vehicle testing
- Test-bed support for internal combustion engines
- Software engineering
- System architecture design
- Project management
- Computational Fluid Dynamics Simulation (CFD)
- Computer Aided Design (CAD)