Hydrogen in the powertrain
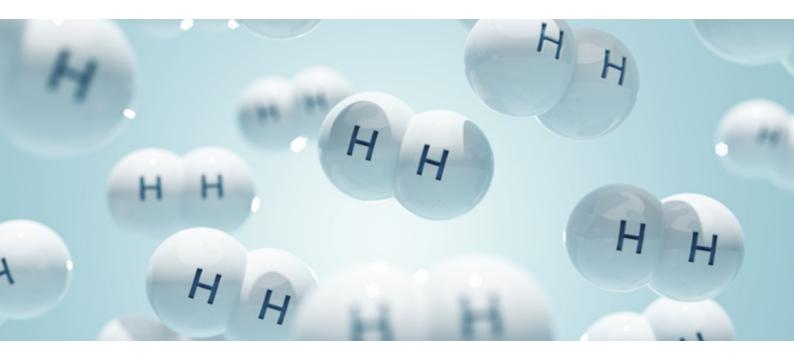## Our portfolio

For the future topics of the H_2 combustion engine and fuel cell, we have a unique combination of our own software models and control units, H_2-capable test benches and technical expertise. Our system and mechatronics know-how helps to make the world of tomorrow cleaner.

Software
Model-based software to control fuel cells and H_2 engines
- Modular concept (**AUTOSAR compliant**)
- Integrated **functions specially designed for operation with hydrogen**
  - *Coming soon: software version with functions specifically for controlling a fuel cell*
- **Expandable** with new software functions and hardware components

Electronic control units
Own ECU solutions for the commissioning of fuel cells and H_2 engines
- Prototyping control unit **PRO**troniC *TopLINE*
- Prototyping and series production control unit **PRO**troniC *TargetLINE*

Test benches
4 test-rigs with H_2 infrastructur at our location in Werdohl
- **2 x heavy-duty** and **2 x universal** (e.g. fuel cell systems)
- Battery simulation (800 V; up to 1200 A)
- Pressure supply up to 100 bar at engine/system
- Mass flow up to 45 kg/h
- Hydrogen supple (hydrogen 5.0) by trailer or bundle

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