

Hydrogen Plant „On Board“

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A major field of research at the Institut für Mikrotechnik Mainz GmbH (IMM) is the reformation of fuels like propane, methanol, octane and, recently, diesel to generate hydrogen for fuel cells.

Latest projects aim at developing complete fuel processors for fuel cells. These are to provide auxiliary power units (APU) with enough hydrogen to produce 100 W to 10 kW for portable applications.

IMM already has successfully developed all components necessary for the production of hydrogen. Moreover, these micro structured reformers, CO gas cleaners (water-gas shift reaction, selective oxidation), condensers as well as integrated and separate heat exchangers are continuously optimised. IMM experts research various processes of catalyst coating of micro channels and, with IMM test plants, evaluate the performance of the catalysts developed.