

Hannover Fair 2001-03-01
Group Exhibits – Hydrogen + Fuel Cells
Hall 13, booth 16/13



Schunk Kohlenstofftechnik GmbH

Cost effective Mass Production of Bipolar Plates for Fuel Cells

A successful and fast serial introduction of PEM fuel cell systems requires a major cost reduction for all main components within the fuel cell stack. Bipolar plates as a key component are today still one cost driver.

During the past 5 years Schunk Kohlenstofftechnik GmbH has developed and tuned graphite composite materials and a pressed-to-size process. We are now able to produce bipolar plates in a cost effective way.

Excellent material and component properties could be proven in fuel cell operation at customers. The material technology has been developed in particular with the aim of high graphite contents, in order to achieve superior electrical conductivity, in combination with corrosion resistance, high mechanical strength and flexibility. This technology has been applied for complex flowfield designs up to sizes of about 400x400 mm (16x16") and allows to achieve tight dimensional tolerances.

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