

**Hanover Trade Fair, Hall 27, Booth B 65  
Hydrogen and fuel cell joint exhibition**

## **Schunk is setting standards**

Schunk Group receives "TÜV SÜD" test seal for fuel cell stacks

On March 15th, 2011, Schunk Bahn- und Industrietechnik GmbH received the "TÜV SÜD" certification for product families FC-42 and FC-08 in accordance with industrial standard IEC 62282-2.

This certification verifies that the Schunk stack fulfills the special safety and technical maturity requirements. "We're very proud of this quality seal," said Stefan Schaaf, Managing Director of Schunk Bahn- und Industrietechnik. "It reflects our experience with the product in industrial and demonstration applications and confirms the safe use of this technology." The entire product line is based on the same technology allowing a flexible integration. The separation of fuel cell modules into separate 360 W stacks provides the customer with great flexibility and saves money when it comes to integration into scalable system solutions. The stack is equipped with a clever tap water-based cooling solution and can thus be used in a considerably wider range of applications in comparison to air-cooled fuel cells.

Sister company Schunk Kohlenstofftechnik GmbH manufactures bipolar plates based on a graphite composite for use in PEM, HT-PEM and direct methanol fuel cells. Thanks to their optimized composition, it has been possible to increase the maximum permissible application temperature in HT-PEM fuel cells considerably. At the same time, the chemical stability of the bipolar plates was extended, which ensures a longer life time in HT-PEM systems. When improving the material composition, Schunk was able to rely on its many years of experience in shaping processes to manufacture high-quality plates as fully-formed parts for HT-PEM fuel cells using molding technology.

Schunk is able to complete its market-leading position in the field of bipolar plates for DMFC, NT- and HT-PEM fuel cells with these high temperature-resistant bipolar plates. The high quality level of the plates makes trouble-free production of fuel cell stacks possible, for prototypes as well as for large quantities.

*Schunk Bahn- und Industrietechnik GmbH and Schunk Kohlenstofftechnik GmbH are part of the Schunk Group, an internationally operating technology company with more than 60 operative companies and over 8,000 employees in 26 countries. Specializing in system and material technology, the group of companies offers a broad spectrum of products and services in the fields of carbon technology and ceramics, environment simulation and air conditioning technology, sintered metal technology and ultrasonic welding technology. The Schunk Group is anticipating consolidated turnover of around €840m for 2010.*

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