

SCHUNK IS SETTING STANDARDS.

Schunk has received several Awards for its Innovative Strength. The Schunk Group presents the recent Developments in the Field of Fuel Cell Technology.

You will find us in hall 27 (Group Exhibit Hydrogen + Fuel Cell), Booth K60

At this year's Hanover Fair Schunk will once again present the latest developments in the field of fuel cell technology. In the past two years we have been awarded the renowned F-Cell Award for innovative technological concepts which we will introduce to you.

In 2008 Schunk Kohlenstofftechnik GmbH was granted the Golden F-Cell Award for an advanced manufacturing technology for bipolar plates, especially for the development of production processes suitable for series production of bipolar plates made of the well-established Schunk graphite composite materials. Schunk Kohlenstofftechnik GmbH is a worldwide leading manufacturer and supplier of bipolar plates for PEM-and DMFC.

For our stack development customers Schunk is a competent partner in both manufacturing of prototypes by machining out of blank plates as well as in near-net-shape molding through our specially developed hot compression molding process for large series. Inhouse material development allows the fast adaptation of bipolar plate properties to the most different requirements in our customers' individual applications.

An additional strength is the complete production process chain up to the ready-to-install bipolar plate. Schunk expertise in the areas of material development, tools and molding technology as well as manufacturing processes assures comprehensive support from the development to the production stage.

SchUNK Bahn- und Industrietechnik GmbH, an affiliated company, has meanwhile established itself firmly on the market with a generation of flexible and extremely compact standard fuel cell stacks. Our stack concept allows the modular assembly of identical units from 360 W up to approx. 1.4 kW in order to cover the required power demand of the individual application of our customers. The Schunk stacks are excellent for various applications such as UPS (uninterruptible power supplies), small drive motors and portable applications. These innovative fuel cell stacks are available as standard products to the system integrators. Reliable manufacturing processes ensure constantly high quality. Advanced design and development combines the advantages of both water and air cooling: This innovative cooling concept allows cooling of the stacks without the need for deionized water. By means of cost-effective components a very efficient cooling system can be assembled. This Schunk development which is suitable for series production has been granted the Silver F-Cell Award 2009.

SchUNK Kohlenstofftechnik GmbH and SchUNK Bahn- und Industrietechnik GmbH are part of the Schunk Group, a leading global technologies conglomerate with a remarkably wide spectrum of products and services in the divisions Materials, Environmental Simulation Technology and Climate Technology, Sintered Metal Technology and Ultrasonic Welding Technology. The company was founded by Ludwig Schunk in 1913. The consolidated annual turnover for the year 2008 amounted to 810 million EURO. The Schunk Group is represented in 28 countries and comprises more than 60 subsidiaries, offering local technical support and customer service. In total, more than 7900 people are employed.

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