



# China Brief: New Energy Vehicles

## Special Series, Part 3 of 4

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**Special: Chinese Electric Motor Companies**

Welcome to Part 3 of a special four-part series from CS Shanghai's "China Brief: New Energy Vehicles." In this issue, we provide a profile of the major Chinese electric motor companies.

A partnership with a Chinese electric motor company could be an entry strategy for U.S. companies. Whereas Chinese battery manufacturers have a lot of resources and support, the electric motor companies profiled below are currently not receiving as much attention. Their desire to be "the BYD of electric motors" is an opening that U.S. companies should consider.

**Profiles: Zhuzhou CSR Times Electric Co., Ltd.**

(南车时代电器股份有限)

Located in Zhuzhou, Hunan Province, Zhuzhou CSR Times Electric specializes in the design, manufacture, and sale of mass transit electric drive converters and control systems. They are the leading provider of on-board electric system integration for rail transportation. In 2006, Zhuzhou CSR Times Electric was listed on the Hong Kong stock exchange; 2008 sales reached RMB 2.1 billion.

**Shanghai Edrive Co., Ltd.**

(上海电驱动有限公司)

Located in Minhang District, Cangyuan Science and Technology Park, Shanghai Edrive Company is mainly involved in R&D of new energy automotive electric drive systems. Production and sales are limited. The company has registered capital of RMB 50 million.

**China Tex Mechanical & Electrical Engineering**

(中纺锐利机电有限公司)

China Tex Mechanical & Electrical Engineering made great contributions to the founding and development of China's textile mechanical industry. Now, it is concentrated on the industrial automation field, which is closely related to new electric drive systems. Their Switched Reluctance Drive is advanced even by international standards. Some of their products sold throughout Asia, Europe and America have over 90% market share.

**Jiangsu Weiteli Motors-Manufacturing Co., Ltd**

(江苏微特利电机制造有限公司)

In 2007, Jiangsu Weiteli began cooperating with Harbin University of Science and Technology to develop car motors. It is a private company with total assets of about RMB 289 million. Jiangsu Weiteli has 1,100 staff including 348 engineers with a variety of specializations. In 2007, sales were RMB 552.17 million including USD 6 million in exports to the U.S.

**Jing-Jin Electric (JJE) Co.,Ltd**

(精进电动科技有限公司)

Founded by Chinese scholars repatriated in China, Jing-Jin is a private company that



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develops and manufactures high-performance electric motor systems and electric drive components for HEV, plug-in and other electrically driven automobiles and control systems.

### **Shanghai Dajun Automatic System Engineering Ltd.**

(上海大郡自动化系统工程有限公司)

Shanghai Dajun is a private company with limited publicly available information. They specialize in manufacturing auto electric motors and control systems. The General Manager of the company worked at Ford in the U.S. as a senior engineer responsible for electric motor systems and control systems for 10 years and received the Henry Ford award.

### **Shanghai Yingshuang Electric Machinery.**

(上海赢双电机有限公司)

Shanghai Yingshuang is a private company consisting of experienced motor professionals. Yingshuang has been chosen by the central government to undertake "National 863 Projects," which is a state funded high-tech development plan. They hold a patent for one of their projects in this program. Yingshuang's main products include brushless motors, rotary transformers, mechanical-electrical integration parts, and special motors.

**BYD Update:** BYD has reached an agreement with Shanghai Automotive Industry Corp (SAIC) to supply the automaker with lithium-ion batteries for its Roewe hybrid vehicles. SAIC will also provide nearly 1,000 new-energy vehicles, including electric, fuel cell and hybrids, for World Expo 2010 Shanghai.

Also, BYD has built an electric vehicle battery production base in Huizhou city, Guangdong province. This 5 billion yuan (\$732 mln) facility, located in the BYD Huizhou Industrial Park, is one of nine manufacturing bases that BYD plans to build across China for making cell-phone components, rechargeable batteries and auto parts.

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