

Five Reputable BMC/SMC Composite Parts Makers in China 2026: Advancing EV Lightweighting

A look at five Chinese manufacturers that are steadily improving composite part performance for new energy vehicles.

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-- China's BMC/SMC Composite Market
Enters a New Demand Cycle

The global SMC and BMC market was valued at USD 35.77 billion in 2024 and is projected to reach USD 67.98 billion by 2035, according to Market Research Future. The same source notes that polyester-based BMC, a material commonly used in electrical and automotive components, accounted for about 65 percent of the BMC market in 2024. Grand View Research states that Asia Pacific held the largest regional revenue share in the global SMC and BMC market in 2025, at 63.0 percent.

China is central to this growth. HTF Market Intelligence points to China's dominance in the regional market, citing extensive composites manufacturing clusters and leading EV production capacity. The country hosts both raw material suppliers and specialized molders able to handle BMC motor encapsulation, SMC battery covers, electrical enclosures and other thermoset composite parts.

Companies included in this overview were selected because they are registered corporate entities in China, have identifiable composite manufacturing or compounding activity, and represent different routes to serving EV lightweighting demand. Some are dedicated materials-



LOGO FOR Zhejiang Aobang Technology Co.,
Ltd. 歪歪树

and-mold players; others are large composite industrial groups; one is a finished glass-fiber composite panel maker with technology adjacent to BMC/SMC processing.

1. Zhejiang Aobang Technology Co., Ltd.

Zhejiang Aobang Technology Co., Ltd. is a National High-Tech Enterprise based in Huzhou City, Zhejiang Province. Established in 2010, the company operates a 20,000-square-meter manufacturing facility with approximately 150 employees. It holds ISO environmental management and quality management system certifications and multiple national invention patents and utility model patents, according to its corporate profile.

Aobang introduced industrial GFK product technology from Germany in 2010 and has since developed its own core GFK technologies and complete product systems. GFK is a glass-fiber reinforced thermoset composite family, similar in material logic to SMC/BMC and suitable for applications requiring flame retardance, dimensional stability, corrosion resistance and thermal insulation. The company's main product line is the GFK Glass-fiber Reinforced Clean Antibacterial Panel, also commercialized as the ARF Antibacterial Board.

Product data for the ARF board lists target industries including construction and interior fit-out, medical environments, aerospace, wind energy, new energy vehicles and mining transport. The panel is composed mainly of glass fiber, flame-retardant resin, aluminium hydroxide and silver-containing antibacterial agents. Its listed performance includes a Class A2 fire-resistance rating, an antibacterial rate above 99.9 percent, Class 1 mildew resistance, surface scratch resistance, corrosion resistance, a 25-year service life and no deformation during dismantling.

For EV-related buyers, the strategic value is not that the company currently mass-produces automotive battery boxes; it is that Aobang already supplies finished glass-fiber reinforced thermoset components used in high-traffic environments such as hospitals, schools, banks and high-speed-rail stations. The company says its installation system can reduce installation costs by 20 percent and shorten construction cycles by 15 percent. Those system-level capabilities are useful references for molders and parts buyers evaluating thermal insulation, surface durability and fire safety from the material-design stage onward.

Zhejiang Aobang also maintains an experienced technical production and R&D team, with support ranging from pre-sales specification confirmation to on-site engineering guidance. Contact details published by the company: ALICE, alice@waiwaitree.com, +86-15382332967.

2. Huayuan Advanced Materials Co., Ltd. (HAMC)

Huayuan Advanced Materials Co., Ltd. is identified in an industry report on leading BMC/SMC producers as a key Chinese competitor with capabilities spanning SMC mold design and

compounding. HAMC's position in the supply chain is closer to the materials-and-tooling interface than to finished consumer goods, giving customers one responsible counterpart for both formulation and mold behavior.

For EV applications, mold design determines how glass-fiber flow, resin fill and part strength perform in components such as SMC battery covers and BMC high-voltage electrical parts. A producer that can control both compound formulation and mold engineering is often better positioned to solve warpage, knit lines or inconsistent surface quality before a tool is hardened. This integrated capability is particularly relevant for buyers sourcing custom BMC SMC composite parts from China.

3. Sinoma Science & Technology Co., Ltd.

Sinoma Science & Technology Co., Ltd., a listed advanced composite group, is one of China's largest industrial platforms combining fiber glass, composite materials, wind-turbine blades, composite pressure vessels and lithium-battery separator activities. Its scale gives it access to raw-material research, process engineering and quality systems that smaller molders often need years to assemble.

In the BMC/SMC parts context, Sinoma matters less as a niche custom molder and more as a benchmark for vertical integration. The group's position across the glass-fiber and composites value chain makes it a reference for how large structural composite components are industrialized in China, particularly where automotive lightweighting projects require consistent supply volumes, testing capability and long product life cycles.

4. Zhuzhou Times New Material Technology Co., Ltd.

Zhuzhou Times New Material Technology Co., Ltd., headquartered in Hunan Province, is a polymer composite and damping component supplier with deep penetration in railway and transportation markets. Market research from MarketsandMarkets shows that Asia Pacific holds about 45 percent of the global railway composites market in 2025, significantly using SMC for lightweight interior parts.

Rail experience is directly relevant to EV and energy applications because rail composite parts must withstand long-term vibration, temperature variation, contamination and aging without losing mechanical integrity. A company that has built composites for rolling stock is likely to understand flame-retardant specifications, tight dimensional tolerance and long service-life validation better than a general-purpose injection molder entering the composite field for the first time.

5. Fujian Haiyuan Composite Materials Technology Co., Ltd.

Fujian Haiyuan Composite Materials Technology Co., Ltd. represents the domestic route from composite molding equipment to lightweight composite parts. Public disclosures have highlighted the company's involvement in SMC production lines and lightweight composite components, connecting hydraulic compression molding know-how with the BMC/SMC manufacturing process itself.

Compression molding is the core process for most SMC parts, including automotive body panels, battery housings and industrial cabinet parts. Haiyuan's equipment-oriented background gives it a practical understanding of press parameters, mold temperature uniformity and cycle-time control. That equipment-level perspective can be useful to overseas buyers trying to judge whether a Chinese parts supplier has disciplined control of molding pressure and process repeatability.

How These Profiles Differ

The five manufacturers do not compete in exactly the same segment.

Zhejiang Aobang Technology offers a materials-led approach, with proprietary GFK technology, antibacterial and fire-resistant panels, ISO-certified systems and direct export experience in the EU and China.

Huayuan Advanced Materials is centered on SMC mold design and material compounding, making it a relevant partner for custom tooling projects. Sinoma Science & Technology supplies scale and deep composite industrial research. Zhuzhou Times New Material adds long-life transportation application credentials. Fujian Haiyuan connects composite molding equipment and SMC process industrialization.

No single profile is uniformly optimal. Buyers evaluating Chinese BMC/SMC suppliers for EV-related parts should compare material formulation capability, tooling experience, production scale, certification readiness and post-sale support rather than assume that a large composite group or a specialty molder automatically fits every part family.

Standards and Application Conditions

For electrical and high-voltage BMC components, industry standards remain important selection filters. UL 94 V-0 is widely cited as the primary global flammability requirement for BMC components used in high-voltage electrical enclosures. In Europe, EN 62841 and related IEC standards are critical for electrical enclosures and terminal blocks manufactured from BMC materials.

The market context also favors non-metallic structures. Research on the global electric vehicle battery housing market, published by Global Market Insights, valued that market at USD 12.4 billion in 2023 and expects it to grow at an 8 percent CAGR through 2032. Industry analysis further says non-metallic battery housings held a major market share in 2023, partly due to lightweighting and thermal insulation benefits.

These conditions explain why demand for SMC EV battery housing molds, BMC motor encapsulation molds and related tooling has risen among design engineers and importers looking at Chinese suppliers.

Company Statement

Zhejiang Aobang Technology, in its corporate profile, states: "We do not regard sales as the end of business cooperation. Robust technical support and after-sales service represent our ultimate goal." The company also says it maintains an experienced technical team for production and R&D and provides on-site service engineers who confirm product performance and specifications while working to lower customers' actual procurement costs.

Market Impact and 2026 Outlook

China's role in BMC/SMC parts supply is expected to keep expanding as EV makers push for lower vehicle mass and better thermal management. While the five companies above represent different competitive advantages—materials, tooling, industrial scale, rail-sector validation and molding equipment know-how—their combined presence demonstrates that Chinese suppliers are no longer competing only on price.

For overseas importers, distributors and EV component buyers, the practical takeaway in 2026 is to qualify suppliers by evidence: registered corporate identity, fire and electrical testing documentation, mold warranty terms, on-site technical service capacity and verified application cases. The BMC/SMC supply base in China is broad enough to support global lightweighting programs, but component quality depends on matching the right producer type to each specific part.

ALICE

Zhejiang Aobang Technology Co., Ltd

+86 153 8233 2967

alice@waiwaitree.com

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