

Press release

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Bafang's continuous progress: Enhancing waterproof performance and more

Bafang reveals design and engineering processes behind ongoing product advancement

Suzhou, October 2023 - It is not just about new developments, it's also about enhancing existing products. This includes sustainability, product lifespan, design, and construction techniques. These aspects hold immense importance for Bafang, particularly its dedicated R&D department. As a result, the manufacturer has identified waterproofing as just one key focus area, aiming to make consistent incremental improvements as technologies and the wider industry continue their boundless development.

Water poses a substantial threat to the lifespan of electronic drives. As a well-established Chinese e-drive manufacturer, Bafang is committed to consistently enhancing its products in response to this challenge. To ensure the highest levels of customer satisfaction, the manufacturer places great importance on user input and experience.



Photo: An engineer operating the air tightness tester

Bafang Electric (Suzhou) Co., Ltd.
No. 6 Dongyanli Rd • Suzhou Industrial Park • 215125, Suzhou China

This commitment is evident in the rigorous testing of new models and ongoing improvements to existing products in the market. Products are thus continually upgraded to extend the intervals of product maintenance and increase the overall product lifespan. These improvements go hand-in-hand with a reduced environmental impact (less waste, lower resource requirements), helping to continuously solidify Bafang's position as a leading player in sustainable e-mobility development.

What's new?

Through continuous communication and seamless collaboration between all relevant departments, Bafang is committed to further enhancing the robustness and water-resistance of its e-bike applications. In line with internal design and quality standards and in response to rising user demands for waterproof performance, the team has set specific waterproof upgrade targets and comprehensive plan for various components within its drive systems, including motors, gear-hubs and displays, which ensures the feasibility and successful implementation of this modernization, all while maintaining the IPX6 standard for waterproofing.



Photo: R&D engineer and QA engineer discuss test results

What measures are being taken?

In pursuit of upgrading waterproofing capabilities across its range, Bafang engineers pay meticulous attention to product structure design and are diligently analyzing and refining the structural elements that safeguard its products from water intrusion. This involves a comprehensive evaluation of seals, enclosures, and internal components to fortify their ability to withstand moisture and environmental challenges.

Bafang's commitment to modernization is underpinned by a holistic approach that ensures products not only meet but exceed waterproofing standards. By fine-tuning the product structure design, the team aims to elevate the overall waterproof performance, providing customers with a superior and dependable experience.



Photo: Entering the "Waterproof" Bafang test facility

What's the benefit?

The benefits of Bafang's comprehensive approach to improving waterproofing and product design are threefold. Firstly, customers can expect an enhanced and trouble-free experience, as

products are improved to better withstand the rigors of various weather conditions. This translates to reduced post-purchase maintenance and a more satisfying ownership experience.

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Secondly, Bafang's commitment to sustainability ensures that products have a reduced environmental footprint. Selecting eco-friendly materials, optimizing design, and reducing maintenance frequency and the use of excess materials all contribute to a greener planet and reduced impact on the environment.

Lastly, the manufacturer's dedication to waterproofing and overall product improvement not only results in better-performing e-drive systems but also extends the lifespan of components. This means customers can enjoy long-lasting, reliable, and environmentally conscious solutions, making Bafang their preferred choice for e-bike components.

What's next?

Planning, implementing, and upgrading the modernization of products requires a structured approach. Bafang meticulously develops comprehensive plans, considers all relevant aspects, and ensures feasibility. This approach enables continued incremental improvements across the product line, encompassing batteries, drive systems, HMIs and gear hubs.

By establishing clear requirements and objectives, Bafang is set to define achievable and verified standards. These standards serve as a foundation for exploring various alternatives, rigorously evaluated to deliver optimal solutions. This journey may lead us to the introduction of a higher standard. Going forward, customers can anticipate a future filled with even more highly innovative, shapely and robust products from Bafang.

Media contact (global):

Oliver Rüsche

E-Mail: o.ruesche@bafang-e.com

BAFANG

POWER YOUR LIFE

Tel.: +49 (0)5257 9341 09406

Mobile: +49 (0)152-900 14054

No. 6 Dongyanli Rd • Suzhou Industrial Park • 215125, Suzhou China

About BAFANG:

Bafang, one of the leading manufacturers of e-mobility components and e-drive systems, has been developing components and complete systems for electric vehicles since 2003. The company is listed on the Shanghai Stock Exchange (603489.SS) and focuses on all global e-mobility trends of the future: be it individual e-bikes, e-scooters or for public bike sharing systems. Bafang employs

over 1300 people at ten international locations worldwide. The headquarters, development and production sites are located in Suzhou, in the immediate vicinity of Shanghai/China. A virtual tour of the new headquarter in Suzhou via a VR Panorama Tour starts [here](#).

Bafang has sales and service centres in the Netherlands, the USA, Germany, Denmark, France, Italy, and China. The newly opened plant in Poland focuses on the production of mid-motor systems for the European markets.

Website: www.bafang-e.com

E-Mail: info@bafang-e.com

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