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Bafang Electric (Suzhou) Co., Ltd.  
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## Bafang Revolutionises Urban Cycling with H730 Hub Motor Featuring GVT Auto-Shift Technology

Bafang, a key player in eBike drive systems, has unveiled the H730 hub motor, a groundbreaking innovation equipped with its patented Gear Variable Transmission (GVT) technology. Designed to redefine urban commuting, the H730 integrates a 3-speed automatic gearbox that seamlessly adjusts gears based on riding speed, eliminating manual shifting while delivering a smooth, intuitive cycling experience.

### Automatic Shifting: Simplicity Meets Precision

The H730 system automatically shifts gears approximately 100 times during a 20km commute, adapting to speed changes without rider input. This contrasts sharply with traditional derailleur systems, which demand constant attention. "Automatic shifting simplifies riding, especially in crowded cities where cyclists need to focus on safety, not gear levers," emphasized Leo Wang, Bafang's R&D Senior Manager.

By removing external components like gear cables, levers, and derailleurs, the H730 achieves a sleek, minimalist design while enhancing durability. Its weather-proof construction ensures reliable performance in mud, rain, or harsh conditions, significantly reducing maintenance needs.

### Intelligent Power Delivery for Effortless Riding

Bafang's torque sensor and controller work in tandem to analyze pedaling input in real time, dynamically adjusting power output to prevent "ghost pedaling" – a common frustration in single-speed eBikes. This synergy enables smooth acceleration up to 25 km/h and optimizes energy efficiency, making the H730 ideal for daily urban commutes.

The motor's high compatibility with eBike designs allows manufacturers to create integrated, belt-driven systems that prioritize aesthetics and functionality.

### GVT: A Legacy of Innovation

GVT represents the culmination of years of R&D by Bafang, building on milestones like its 2003 debut of the industry's first external rotor hub motor and the 2015 launch of the M400 mid-drive system. Since GVT's first product, the H700 dual-speed hub motor introduced in 2022, over 40 global eBike brands have adopted the technology across urban, cargo, touring, and fat-tire models.



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The design philosophy of GVT aims to simplify the operation, offering riders a new riding and shifting experience. This same experience can also be found from mid-drive systems paired with automatic shifting hubs, like the M210 mid-drive system combined with the RG A310.D 3-speed automatic gear hub.

"GVT has transformed shifting from a mechanical process into an intuitive experience, aligning rider and machine as one," said Zou Bin, Bafang's GVT Engineer. The series now includes motors ranging from 250W to 1000W, alongside the RG A510.D 5-speed gear hub, which supports loads up to 200N.m – a critical advancement for high-power cargo eBikes.

### Platform for the Future

Bafang's shift toward platform-based innovation reflects its commitment to solving industry-wide challenges. By integrating GVT into shared bikes and foldable models, the company is pushing design boundaries while extending eBike lifespans through reduced wear.

"GVT is more than a product – it's a technological foundation," noted Leo Wang. "We're exploring new possibilities to further elevate the riding experience."

Since its founding in Suzhou in 2003, Bafang has driven global eBike evolution, from powering the French postal service (La Poste) in 2008 to pioneering global market and complete drive solutions. Today, its GVT series stands as a testament to the company's mission: merging user-centric design with cutting-edge engineering to achieve true "Rider-eBike-in-One" harmony.

### About Bafang

A pioneer in eBike drive systems for over 20 years. The company is dedicated to complete drive solutions including motors, sensors, batteries, HMIs, controllers, connectors, auto-shift gear hubs and other components for eBikes and other kinds of two-wheeled e-mobility. With multiple core technologies, Bafang is a globally oriented enterprise specializing in drive system research, development, and manufacturing.