

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

Press Release

Bafang to unveil M510RS & M560RS Racing-sport systems at IBF 2026

SUZHOU, China -- August 18, 2026 -- [Bafang](#) will unveil the production versions of its two racing-sport eMTB drive systems – the M510RS and M560RS – at IBF - Italian Bike Festival 2026 (September 4–6, Misano, Italy). First shown as a concept at Eurobike 2025, the RS series now arrives with test rides available at the show, ahead of mass production in Q4 2026.



Figure 1 - M510RS & M560RS system

A Philosophy Born from the Trail

After two decades of engineering experience and deep engagement with riders worldwide, Bafang has distilled its guiding philosophy into a clear principle: “Rider-eBike-Road in One.” It is a product ethos where the bike reads the road and the system adapts to the rider – not through brute force alone, but through intelligence, precision, and an unwavering commitment to user experience.

“We constantly push beyond ourselves to meet every new challenge,” says Qinghua Wang, CEO of Bafang. “Our goal is to produce innovative and reliable products that make a tangible difference to riding confidence and control.”

From Race Track to Production Line

The sustained, reliable performance of the RS series was forged on demanding mountain trails — from regional gravel tracks to the extreme conditions of the WES UCI E-MTB World Cup series, with fine-tuning across every

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level. The result: higher-precision sensors, the addition of a 6-axis IMU, fully optimized control algorithms, and over 4,000 hours of race-track fine-tuning. Boost-to-Limit puts maximum output at your fingertips – on demand, whenever you need it.

RS Series: Shared Foundation, Distinct Characters

The RS series delivers the same core architecture across both models: 6-axis IMU for real-time terrain sensing, Sport+ for pedal-by-pedal adaptive assistance (up to 500%), and Boost-to-Limit unlocks 800% assistance in a short-duration burst of maximum output for extreme obstacles. Both achieve 50% faster response and 33% more sensitive power stop than their standard counterparts. Hill Hold and Walk Assist 2.0 come standard on both.



Figure 2 - M510RS & M560RS system

What sets them apart is power character:

M510RS – Adaptive Precision, Smart Control — for Performance MTB

110 Nm peak torque (120–130 Nm with Boost-to-Limit), 1100W (36V) / 1300W (48V) max output. Refined pedal-by-pedal precision, honed through thousands of race kilometers – for technical climbs and demanding ascents. The 6-axis IMU and Sport+ mode continuously read your pedaling and the terrain – so assistance feels intuitive, not intrusive.



Figure 3 - Adaptive Precision, Smart Control



Figure 4 - Adaptive Precision, Smart Control



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M560RS – Sustained Extreme Power — for Extreme MTB

120 Nm peak torque (140–150 Nm with Boost-to-Limit), 1400W (36V) / 1700W (48V) peak output. Built for the steepest, loosest, most punishing terrain. Engineered for the long climb – where sustained torque and thermal stability matter more than peak numbers. Available in versions compliant with EU (25 km/h) or U.S. (45 km/h) market requirements. That’s the difference between “extreme” and “performance” — M560RS is built for the steepest terrain, while M510RS is tuned for the most precise control. M510RS and M560RS share the same mounting interface as the M510 and M560, making them compatible with existing frames without modification.



Figure 5 - Sustained Extreme Power



Figure 6 - Sustained Extreme Power

Beyond the System: A Complete Ecosystem

Beyond the drive unit itself, Bafang offers a fully integrated ecosystem – including batteries, displays, and auto shift hubs – all designed to work seamlessly together. With global sales and service centers across Europe, North America, and Asia, Bafang delivers the engineering support and supply chain reliability that partners trust from development to production.

RS Series: What’s New vs. M510/M560

Feature	M510	M560	M510RS	M560RS
Max possible power ¹	850W (36V)	950W (36V)	1100W (36V)	1400W (36V)
		1220W (48V)	1300W (48V)	1700W (48V)
Max possible torque ¹	110Nm (36V)	140Nm (36V)	120Nm (36V)	140Nm (36V)
		150Nm (48V)	130Nm (48V)	150Nm (48V)
Max possible support ratio ¹	500%		800%	
Sensors	Standard		Higher-precision sensors	
6-axis IMU	—		New – real-time 3D motion sensing	



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Control Algorithm	Standard	Optimized – 4,000+ hours track-tuned
Response Speed	Baseline	50% faster
Power Stop Sensitivity	Baseline	33% more sensitive
Boost-to-Limit	—	New — one-touch activation, maximum output on demand
Performance Character	Reliable, balanced	Bold, responsive, race-inspired

Notes: ¹ The specifications shown for M510RS and M560RS are all measured under Boost-to-Limit mode.

Visit Bafang at IBF 2026 – Booth N8. Experience the RS series on the trail and discover how “Rider-eBike-Road in One” is redefining eMTB performance.

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About BAFANG

Founded in 2003 and listed on the Shanghai Stock Exchange (603489), Bafang is a global player in eBike drive systems. Guided by the "Rider-eBike-Road in One" philosophy, the company develops fully integrated solutions, motors, displays, batteries, controllers, sensors, and gear hubs, that balance powerful performance, durability, and intelligence.

Headquartered in Suzhou, China, Bafang operates four production bases in China and Poland, with service networks across Germany, the Netherlands, the United Kingdom, France, Italy, the Czech Republic, Denmark, the United States, and Taiwan, China. Staffed by local teams, these centers enable 48- hour rapid response to partners worldwide. A CNAS- accredited laboratory, alongside collaborations with DEKRA, SGS, TÜV, and UL, ensures rigorous quality assurance throughout the product lifecycle.

Putting riders at the center of every design decision, Bafang tailors its systems for diverse riding scenarios, from urban commuting and shared mobility to cargo transport and the world's most demanding trails. Through innovative technology and reliable service, the company is committed to making every ride more intuitive, more rewarding, and more enjoyable.

Know more about Bafang:

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