

Press Release
Bosch eBike Systems

More adrenaline, more power, more fun on the trails

Bosch's Performance Line CX-R unleashes pure energy off-road – with powerful dynamics and high-tech details

Performance boost: Up to 100 Nm of torque, 750 W of power, and 400% pedal assistance to tackle the toughest riding challenges

Perfectly tuned and customizable riding modes: Exclusive Race mode and new eMTB+ mode

Maximum efficiency and durability through high-tech materials

Precision control: High-performance sensors enable fast, controlled power delivery

Stuttgart/Reutlingen – eMTB riding blends adrenaline, flow, and the constant drive to push boundaries. Every rider has unique needs: more power for steep climbs, extra thrust on technical terrain, or maximum range for long tours. The new Performance Line CX-R from Bosch eBike Systems, a pioneer in the eMTB sector, delivers the ultimate in trail riding – with extreme power, lightning-fast response, precise control, and an exclusive Race mode for peak performance. It offers up to 100 Newton meters (Nm) of torque, 750 watts (W) of power, and up to 400% pedal assistance.

At the same time, the drive unit – developed in collaboration with elite athletes – incorporates high-tech materials from aerospace and competitive sports, ensuring lightweight construction and state-of-the-art sensor technology. These sensors allow the motor to react to rider input within milliseconds, pushing performance to the limit with power and control. The Race and eMTB+ riding modes, specially designed for eMTB use, enable precise and controlled power delivery.

Claus Fleischer, CEO of Bosch eBike Systems, states:

"The new Performance Line CX-R is the most powerful drive unit in our portfolio. We made no compromises in materials, software, or sensor technology, allowing experienced riders to explore and push beyond their limits on the most demanding trails. The new eMTB+ mode brings CX-R's power to the trails in a controlled manner. Thanks to Dynamic Control – a kind of integrated traction control – propulsion remains manageable even on challenging terrain, steep sections, and slippery surfaces."

Uncompromising support: Exclusive Race mode

On demanding terrain, it's not just about power – a sensitive balance between performance and control is crucial. Since riders have different needs, customizable riding modes are available.

For those seeking instant power delivery and maximum support, the Race mode – available exclusively with the Performance Line CX-R – provides immediate acceleration and full power assistance up to maximum speed, with up to 400% support relative to rider input.

When dynamically navigating over large rocks or complex root sections, the enhanced Extended Boost in Race mode delivers extra thrust.

This makes it the ideal choice for competitive riders and ambitious eMTBers looking to constantly challenge themselves across a variety of technical scenarios.

Users can also fine-tune Race mode parameters via the eBike Flow app to suit their preferences.

Total dynamics and control: New eMTB+ mode for the toughest trails

The dynamic and progressive eMTB+ mode marks another key innovation for physically demanding trail rides.

Bridging the gap between eMTB and Race modes, it offers Race-level power with enhanced control.

Based on rider input, eMTB+ provides controlled assistance up to 400%, delivering natural and agile power output. Thanks to Dynamic Control, power delivery is always precise and adaptable.

eMTB+ intelligently switches – depending on the situation – between Dynamic Control and traditional direct response.

Like in Race mode, eMTB+ settings can be customized through the eBike Flow app to perfectly align with rider needs.

Ambitious MTB riders now have access to four optimized dynamic modes – Tour+, eMTB, eMTB+, and Race – all customizable in terms of power (W, Nm), dynamics, and responsiveness.

Premium materials: Lightweight build and dynamic riding experience

On steep trails, root-covered sprints, or rugged terrain, the Performance Line CX-R is engineered for peak performance and durability in all conditions.

The powder-coated magnesium housing in "space grey" boosts resilience, while the corrosion-resistant titanium crank axle and high-quality ceramic ball bearings reduce weight to just 6 pounds (approx. 2.7 kg) and ensure even smoother operation.

At the same time, the CX-R is built to last thanks to its high-grade construction and powerful electronics.

During descents, decoupling between external (chain, chainring, cassette) and internal drive systems (freewheel, gears, motor) reduces mechanical noise, allowing riders to fully focus on the trail and their surroundings.

High-end sensor technology: Power exactly when needed

To ensure the Performance Line CX-R delivers power precisely when required, its sensor technology measures pedal input up to 1,000 times per second.

Sensors include high-precision torque measurement, a high-resolution cadence sensor, and inertial measurement units (IMU) that detect acceleration and rotational speed across six axes, capturing gradients, inclines, and vibrations.

On the trail, this translates into maximum power – precisely controlled and available exactly when needed – whether it's for a powerful sprint out of a corner, a calibrated start on slippery ground, or a steep, technical climb.

The first electric mountain bikes featuring the new Performance Line CX-R will be available at retailers starting autumn 2025