Press release
Bosch eBike Systems

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More power when it counts: intelligent performance upgrade 2.0 for dynamic eBike drive units

Bosch delivers more power depending on the situation, adjustable overrun, Trick Check, and new 12A Charger

- Performance values of the Performance Line CX and CX-R can be increased to up to 600% support and 120 Nm of torque
- Extended Boost can be customized in the eBike Flow app
- Drivetrain Tensioner for full control
- Trick Check automatically recognizes and measures personal trail skills
- New 12A Charger charges up to three times faster

Stuttgart/Reutlingen – Master even the steepest ascents with ease, ride technical uphills with full control, and overcome challenging trail sections: From May 2026, Bosch eBike Systems is offering ambitious riders the free performance upgrade 2.0 for the Performance Line CX and Performance Line CX-R, which consistently expands the dynamic ecosystem. The eBike Flow app can be used to increase the maximum torque and maximum support – the intelligent riding software recognizes technically challenging situations and automatically delivers full power precisely when it is needed. Together with the customizable Extended Boost, the Drivetrain Tensioner, the new Trick Check feature, and the 12A Charger, which will be available from the end of 2026, the result is an enhanced overall package for performance riders.

“eMTB riding means constantly challenging yourself on the trail – and mastering new situations. This requires not only more power, but also intelligent power delivery at crucial moments. This is exactly what drives us in the further development of our dynamic ecosystem. We want every update to feel noticeably better on the trail – not just on the data sheet,“ says Claus Fleischer, CEO of Bosch eBike Systems.

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Performance upgrade 2.0: situation-specific peak power for key technical sections

With the performance upgrade 2.0, the smart system from Bosch provides even more torque and support for powerful riding on steep trails, when negotiating high steps, or when cranking through tight curves. Using the eBike Flow app, performance riders can increase the torque of the Performance Line CX and the Performance Line CX-R to up to 120 Nm in any riding mode, with the maximum setting value being defined by the respective bicycle manufacturer. Starting from the basic setting of 85 Nm, there is a wide adjustment range for personalized tuning. In addition, the maximum support can be increased: Up to a speed of 20 mph, up to 600% support is now provided in certain riding situations.[1]

What this means on the trail: The long section of exposed roots, the challenging exit from the hairpin curves, the sudden steep section after crossing a stream – it is precisely in these key areas that the intelligent riding software delivers full power – tailored to the specific situation and precisely regulated. This requires dynamic rider power on the pedals: For riders who provide more input in the short term, the system delivers the decisive power boost and rewards them with a new sense of achievement. Immediately afterward, the system adjusts back to an efficient level. This intelligent, short-term power peak reduces material wear, particularly on the chain, cassette, and freewheel, and maximizes the range. Riders decide for themselves whether and to what extent they want to use this short-term peak support via the eBike Flow app – for a natural riding experience with full control.

The performance upgrade 2.0 will be available from May 4, 2026 as a free over-the-air update.

Adjustable Extended Boost: more control and more personalization

Extended Boost gives eMTB riders the decisive boost they need to overcome obstacles such as roots, steps, or rocks with ease – even if a full pedal stroke is not possible. The system delivers an intuitive, residual boost of up to 2.2 yards. From mid-2026, a new slider in the Bosch eBike Flow app will make it possible to set the length of the overrun for each riding mode. Some modes, such as eMTB, eMTB+, or Race, already have a predefined boost length by default that matches the characteristic of the respective mode.

The system reacts intelligently to the current situation on the trail: shorter and smoother for low drops, longer and more dynamic for high, angular steps. The final amount of overrun is determined by the interplay between app setting, riding mode, and pedal pressure. The result: smooth riding on the trail and full control when negotiating technical sections – making pedal jams a thing of the past. This allows performance riders to customize their setup according to their own preferences – for a precisely tuned riding experience.

Drivetrain Tensioner for maximum control

For an even more direct response and maximum control in technical riding situations, Bosch eBike Systems is introducing the Drivetrain Tensioner for the Performance Line CX and Performance Line CX-R. A software optimization closes the freewheel between the motor and rear wheel. This reduces the free travel on the pedal to a minimum and eliminates the usual delay when pedaling. The result is almost instantaneous traction with an even quieter freewheel, with the rider's input converted directly into precise propulsion. This direct power transmission enables superior control and noticeably more agile riding behavior, particularly on demanding sections, such as when starting off on a step or accelerating out of tight curves. Especially in combination with the performance upgrade 2.0, the Drivetrain Tensioner can protect the freewheel and thus ensure a longer service life and lower repair costs. Available from mid-2026 in eMTB+ and Race riding modes via an update through the eBike Flow app.

Trick Check: a fun way to measure trail skills

Flow smoothly through a curve on the rear wheel or take the next jump a little further – with the new Trick Check function, every successful move becomes an achievement. The sensor technology automatically recognizes Jumps, Wheelies, Manuals, or Stoppies, records duration, height, distance, or angle and confirms success with an audible signal. In addition, the last trick is shown on the display for eight seconds – a moment that visualizes the rider's personal achievements and motivates them in a fun way. Once the ride is over, the eBike Flow app shows all personal best performances at a glance. Riders can track progress, compare attempts – and generate additional motivation for the next ride.[2]

12A Charger: faster charging, more time on the trail

True performance on the trail means maximum time on the eBike. That's why the new 12A Charger now significantly shortens charging breaks. With a charging power of around 500 W, it charges around three times faster than the familiar 4A Charger; a PowerTube 800 thus reaches a battery level of around 50 percent in around one hour. This is made possible by modern GaN technology. Since it generates significantly less waste heat than conventional semiconductors, it enables efficient and intelligent thermal management. Despite its high performance, the charger is compact, weighs just over 2 lbs, and therefore fits in a backpack or small bike bag. For performance riders, this means spontaneous recharging, a range buffer before their after-work ride, and more time on the trail instead of at the power outlet. The 12A Charger is compatible with all Bosch smart system batteries and will be available from the end of 2026.

With the performance upgrade 2.0 and the new 12A Charger, Bosch eBike Systems brings together important facets of performance eBiking: The Drivetrain

Tensioner and Extended Boost ensure unparalleled direct control and confidence, while personalized tuning, fun skill tracking, and fast charging round off the experience in the connected dynamic ecosystem. The result: a riding experience that can be felt on the trail at every moment.

[1] 600% support only applies to the modes: Race, Turbo, eMTB+, Cargo, Auto

[2] Trick Check is shown on the following displays: Kiox 300, Kiox 400C, Kiox 500, Purion 200, Purion 400

Press images are available on the Bosch Media Service at www.bosch-press.com.

Overview of new features:

Drive Unit	Max. torque (up to 120 Nm)	Max. support (up to 600%)	Adjustable Extended Boost (from mid-2026)	Trick Check
Performance Line CX-R (BDU38)	✓	✓	✓	✓
Performance Line CX (BDU38)	✓	✓	✓	✓
Performance Line SX (BDU31)	–	–	✓	✓
Performance Line CX Race Ltd. (BDU37)	–	✓	✓	✓
Performance Line CX (BDU37)	–	✓	✓	✓
Cargo Line (BDU38)	✓	✓	✓	–
Performance Line Speed (BDU38) US/NZ	–	✓	–	–
Cargo Line (BDU37)	–	✓	✓	–
Performance Line PX (BDU34)	–	✓	–	–

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Bosch eBike Systems are shaping the future of eBike mobility with innovative products and digital services; ranging from highly efficient drive systems, to the first production-ready ABS for eBikes and Connected Biking solutions. Bosch eBike Systems offers eBikers the best drive system (drive unit, battery, display, and app) for every requirement and every area of use, ensuring a unique riding sensation: Whether it's for daily trips around the city, enjoyable rides in the countryside or for sporty adventures in the mountains. Today more than 100 of the world's leading bicycle brands trust the perfectly coordinated, modular product portfolio. As an independent division within the Bosch Group, Bosch eBike Systems also makes use of the Group's technology and manufacturing expertise. For fun, healthy, sustainable and safe mobility.

More information at www.bosch-ebike.com.

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