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Power meets Control: Bosch again sets new eMountain biking standards with its new Performance Line CX

September 2024

More dynamic, more agile and quieter than ever before

- ▶ The next evolutionary step of the Performance Line CX combines power, dynamics, efficiency and range in an ideal ratio
- ▶ Even better riding dynamics and agility thanks to optimised sensor technology
- ▶ Reduced noise and lower weight
- ▶ Sporty ecosystem: Bosch eBike ABS Pro, Purion 400 display and PowerTube 600 and PowerTube 800 batteries complement the new drive unit

Stuttgart/Reutlingen – More dynamic on the mountain, more agility on the trail, smoother riding on tour: In the new Performance Line CX generation from Bosch eBike Systems, power meets control and a success story lives on. In conjunction with the Bosch eBike ABS Pro, the Purion 400 display, the powerful PowerTube batteries and new features for long tours and steep passages, Bosch presents a comprehensive sporty ecosystem for the ultimate eMountain bike experience.

The ideal balance of power, efficiency and range

For eMountain bikers, it is not just performance data that is crucial, but above all the precise fine-tuning of the motor. This determines the flow factor on the trail. “With 85 Newton metres of torque, a maximum power of 600 watts and up to 340 percent support, the new Performance Line CX (BDU384Y) delivers the ideal balance of power, dynamics, efficiency and range,” says Claus Fleischer, CEO of Bosch eBike Systems. “Whether for sensitive starts on steep trails or powerful, perfectly controlled exits from bends: With its precise, sensitive response behaviour, our new drive unit allows sporty eBikers to experience unique riding dynamics for the perfect eMTB experience.” A variety of different [riding modes](#) are available for Performance Line CX, which can be selected and customised in the [eBike Flow app](#).

Sensitive sensor technology and dynamics on a new level

The power of the new Performance Line CX (BDU384Y) unfolds dynamically and is precisely matched to the relevant riding manoeuvre and accurately follows the pedal input. This is made possible by re-engineered sensor technology. Several high-performance sensors precisely measure the pedal input – more than 1,000 times per second. The many sensors used include a high-resolution cadence sensor and precise torque measurement technology. Inertial sensors (IMU) also measure acceleration and rotation speeds in six dimensions, and recognise inclination and tilt angles as well as vibrations. This means that the eMTB “knows” how steep the ascent is and whether eBikers are on a forest path or a root-covered trail. The drive unit responds highly sensitively to changes in acceleration, the rider’s pedal power and the current speed. Thanks to the newly interpreted sensor signals, eBikers always receive the right motor power – sensitive, controlled and immediate. Or gentle, restrained and reliable for long tours and leisurely excursions. The Performance Line CX is an all-rounder.

The sound of the trail and nothing else

On trails and discovery tours, many cyclists want a motor that is as quiet as possible, combined with a natural riding experience. Bosch has optimised the gearbox of the new Performance Line CX (BDU384Y) with a view to achieving a good balance between power delivery, efficiency and noise levels. When riding downhill, the external drivetrain (chain, chainring, cassette) is decoupled from the internal drivetrain (freewheel, gearbox, motor). This further reduces the mechanical noise generated by comparable drive units on the trail. The full focus remains on the trail and nature.

The weight of the Performance Line CX has also been reduced by around 100 grams compared to the previous version. The drive unit is extremely robust. Its magnesium housing withstands the toughest conditions. A black powder coating protects against stone chips and damage as well as corrosion.

The motor that defined eMountain biking: Performance Line CX

If there is one eBike motor that is synonymous with eMountain biking, it’s the Bosch Performance Line CX. Specially developed for eMTBs, it has established itself as a permanent fixture in the mountain bike scene since its launch almost ten years ago (2015) and has defined sporty eBiking as a field in its own right. Since then, the drive unit has undergone several stages of evolution and continues to set standards in terms of riding experience and motor characteristics. The pioneering, progressive/dynamic eMTB mode and many other technical developments complement the Performance Line CX, making the riding experience on the eMountain bike unique.

Full support right up to the summit: useful features for steep passages

If eBikers have to stop on challenging uphill terrain, it is important to get out of this situation in a controlled manner. With the new **hill start assist** you can ride off in relaxed manner and with full traction. Thanks to the sensors, the eMTB knows how steep the slope is and provides optimum support. Also new: With the **walk assistance** feature, the drive unit adapts the pushing speed to the walking speed.

Maximum braking performance: the new Bosch eBike ABS Pro

On the downhill trail, demanding mountain bikers want to focus more on their riding line and less on braking. Bosch eBike Systems now has a solution for them: the new Bosch eBike ABS Pro for high-performance braking systems. This increases riding stability by allowing late and powerful braking without the front wheel slipping. During development, Bosch incorporated experience and technology from eMTB racing. This has resulted in two ABS Pro modes: ABS Trail Pro for discerning mountain bikers and ABS Race for enduro racers. The new eBike ABS Pro achieves the optimum balance between riding stability and maximum braking performance.

Perfect eMTB display: the new Purion 400 display

The new **Purion 400** display is part of the sporty ecosystem and complements the Performance Line CX. With a minimalist look adapted for eMTBs and optimally protected in the handlebar triangle, the transmissive 1.6-inch display offers a good overview of the essential riding and fitness data such as speed, range, power and total distance.

Battery innovations for even longer tours: PowerTube 600 and 800

Energy reserves play a decisive role on demanding, multi-day tours covering many metres of elevation gain. For this purpose, Bosch has developed the **PowerTube 800** – the largest PowerTube battery in the smart system to date, perfectly matched to the new Performance Line CX. At around 205 Wh/kg, the battery has the highest energy density in the portfolio. The portfolio is complemented by the new **PowerTube 600**.

Bosch uses battery cells with an optimised energy density and a newly developed aluminium housing for both batteries. Seamlessly integrated into the frame tube, they blend seamlessly into the eBike design. Thanks to their identical length, they can be easily removed and replaced – if provided for by the eBike manufacturer. They are also DualBattery-capable and can be combined. eMTB enthusiasts, for example, can use two PowerTube 800s to achieve a total capacity of 1,600 Wh in order to master even the most challenging route sections with many metres of elevation gain and no possibility of intermediate

charging. Alternatively, you can use the drinking bottle-sized range extender [PowerMore 250](#) as an additional battery.

Focus on sustainability in production

Bosch aims to continuously improve all eBike systems in terms of sustainability throughout the entire product life cycle. For the production of the Performance Line CX and of the two PowerTube 600 and PowerTube 800 batteries, Bosch eBike Systems therefore uses partially recycled materials: for the first time in the largest plastic part of the drive unit as well as in the battery holder and the battery housing¹. Furthermore, the amount of material used for the rechargeable batteries has been reduced² and the black colour coating has been omitted from the PowerTube 600 and PowerTube 800. A further milestone: In pilot projects, Bosch eBike Systems is focussing on purchasing components that were produced using electricity from renewable sources. This applies to the aluminium of the PowerTube 600 and the PowerTube 800 as well as to the housing of the Performance Line CX.

More than the sum of its parts: the eMTB ecosystem from Bosch

The Performance Line CX takes centre stage – and around it, Bosch eBike Systems presents a sporty portfolio that takes the eMountain biking experience to a new level: powerful batteries for long ranges, a lightweight range extender, a compact display, eBike ABS Pro and the eBike Flow app. With the eShift solution featuring TRP presented in July 2024, eMountain bikers will also benefit from the first automatic derailleur in the smart system.

And Bosch is also involved beyond the trail Bosch eBike Systems: As one of several well-known stakeholders in the electric bike industry, Bosch is supporting the collaboration in the Charge2Bike consortium to develop an industry-wide, standardised charging solution. "The fascination of eMountain biking is a holistic experience," says Claus Fleischer. "And we are also pursuing this approach in our product development. With our comprehensive sporty ecosystem, we offer eMountain bikers more dynamics, more control, more riding pleasure – and therefore more 'trail' – through the interplay of all components." Claus Fleischer believes that the advantages of this holistic approach will change the market: "We are convinced that in 5 years' time, eBikes with ABS, eShift, the eBike Flow app and an infrastructure with Charge2Bike as standard will be available for hire."

¹ Primary plastics and metals were used for previous drive units and batteries. Recycled material is now specifically used in the grease guide plate of the drive unit, in the protective cap of the battery mount system and in the battery housing. By providing the grease reserve, the grease guide plate makes a significant contribution to the efficiency level and service life of the drive unit and was produced for the first time with a plastic that consists of approximately 50 % recycled material. We use recycled polypropylene for the protective cap of the battery mount system, while we use aluminium, consisting of approximately 38% recycled material, for the battery housing.

² The reduction is achieved by reducing the wall thickness of the housing. This produces the following result: when comparing PowerTube 600 with PowerTube 625, the housing wall is 26% lighter, and 37% lighter when comparing PowerTube 800 with PowerTube 750.

Press photo 1:



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Press photo 2:



With 85 Newton metres of torque, a maximum power of 600 watts and up to 340 percent support, the new Performance Line CX (BDU384Y) delivers the ideal balance of power, dynamics, efficiency and range.

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The power of the new Performance Line CX unfolds dynamically and precision matched to the relevant riding manoeuvre and accurately follows the pedal input. This is made possible by re-engineered sensor technology.

Press photo 4:



Full focus on the trail and nature: Bosch has optimised the gearbox of the new Performance Line CX with a view to achieving a good balance between power delivery, efficiency and noise levels.

Press photo 5:



The new eBike ABS Pro achieves the optimum balance between riding stability and maximum braking performance. This allows late and powerful braking without the front wheel slipping.

Press photo 6:



The new Purion 400 display is part of the sporty ecosystem and complements the Performance Line CX. With a minimalist look customised for eMTBs, it is optimally protected in the handlebar triangle.

Press photo 7 + press photo 8:



The new PowerTube 800 is the largest PowerTube battery in the smart system to date. At around 205 Wh/kg, it has the highest energy density in the portfolio. The new PowerTube 600 completes the portfolio.

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Maximum braking performance with the Bosch eBike ABS Pro

September 2024

Bosch eBike Systems revolutionising the mountain bike riding experience with new ABS

- ▶ Developed for adventurous, ambitious and discerning eMountain bikers
- ▶ Even faster ABS intervention for more stability when braking on the trail
- ▶ Choice of two different modes for trail riders and enduro racers for those crucial seconds

Stuttgart/Reutlingen – On the downhill trail, discerning mountain bikers and enduro racers want to concentrate more on their riding line and less on braking. Bosch eBike Systems now has a solution for them: the new ABS Pro for high-performance braking systems. This increases riding stability by allowing late and powerful braking without the front wheel slipping.

The control system optimised for performance downhill sections intervenes within milliseconds and allows the brake to react even more precisely to different surfaces. At the same time, the brake pressure modulation has been optimised to achieve even better braking performance that is both powerful and natural on gravel roads or trails, even at higher speeds. The advantages for eMountain bike enthusiasts: the 'flow window' is extended, they can focus better on the trail, ride more precisely and have to concentrate less on braking. And for enduro and downhill riders, this also means less stress for the body in a race and therefore more performance and longer-lasting concentration.

Stable and tuned for performance

Fast, performance downhill riding requires a braking technique that ranges from solid to sophisticated. With modern, powerful braking systems, overbraking can also occur, especially in unforeseen situations. Those who adopt a precise braking style not only master descents more safely, but also reach their destination more quickly. This is where the eBike ABS Pro comes into play, which is aimed at experienced mountain bikers who want to expand their skill set. The ABS optimised for performance on the trail intervenes particularly in the first braking phase to minimise braking errors. During initial braking, ABS Pro

ensures stability, after which the intervention decreases noticeably – in favour of maximum braking performance. In this way, riders are ramped up to the maximum braking force on the respective surface. The length of the initial braking depends on the rider's input and the grip level, i.e. the degree of grip of the tyre. ABS Pro refines sophisticated braking technology and ensures that bikers stay in the flow on trail descents.

Two ABS modes for different requirements

When developing the new ABS Pro for maximum braking performance on trails, Bosch incorporated experience and technology from eMTB racing. This has resulted in two ABS Pro modes: ABS Trail Pro for discerning mountain bikers and ABS Race for enduro racers.

The **ABS Trail Pro** mode is the new standard for every challenging trail descent and has been developed for more efficient, stable and controlled braking on loose surfaces. eMountain bikers can fully focus on the ideal line and also benefit from the rear wheel lift control on grippy surfaces. This can prevent the rear wheel from unintentionally lifting off sharply in the event of extremely heavy overbraking.

For eMTB professionals and braking specialists, the range of functions in the **ABS Race** mode has been deliberately adapted: all stoppie fans and hairpin bend enthusiasts can use this mode to lift the rear wheel off the ground and land it again, as the lift control is deactivated. "We have received feedback from our athletes that they are simply faster with ABS Race. They feel safer and perform better and can gain crucial time on the downhill. Added value for discerning bikers who want to push themselves to the limit on the trail," says Claus Fleischer, CEO of Bosch eBike Systems.

Bosch athletes have already won world championship titles and several enduro victories in competition with ABS Race. For eMTB world champion Nathalie Schneitter, the ABS Race mode on the eMountain bike is a real game changer: "With ABS Race, I am more controlled on the descent and can brake later and harder without losing grip and my pace. This allows me to focus perfectly and hold my line."

The two modes ABS Trail Pro and ABS Race can be selected via the eBike Flow app or the Settings menu on the display.

Improve braking behaviour in the performance area

The Kiox 300, Kiox 500, Purion 200 and Purion 400* displays show the selected ABS mode as well as information such as braking distance and duration and the number of braking operations using ABS. After the descent, you can analyse

your own braking behaviour in the eBike Flow app and compare the proportion of braking with and without ABS Pro.

The Bosch eBike ABS Pro is compatible with the MT7 disc brakes from Magura and DH-R EVO from TRP, cannot be retrofitted and is only available for eBikes with a smart system. The first eBikes with the new ABS Pro are expected to be available from specialist dealers from the end of 2024.

Systematic differentiation of the Bosch eBike ABS

The new Bosch eBike ABS Pro with the ABS Trail Pro and ABS Race modes creates the optimum balance between riding stability and maximum braking performance. Presented in 2022, the world's smallest [Bosch eBike ABS](#) with ABS Allroad and ABS Trail modes was deliberately developed with a stronger focus on safety and stability. Also in 2022 – particularly suitable for urban areas – Bosch presented the ABS Touring and ABS Cargo modes for eCity, eTrekking and eCargo bikes, for example. In 2018, Bosch eBike Systems introduced the world's first ABS for eBikes.

*Braking distance and duration not currently available with Purion 400.

Press photo 1:



Small and powerful: the Bosch eBike ABS Pro is designed for ambitious eMountain bikers who give their all on the trails.

Press photo 2:



With the eBike ABS Pro, bikers find the perfect balance between riding stability and maximum braking performance.

Press photo 3:



The two modes ABS Trail Pro and ABS Race can be selected via the eBike Flow app or the Settings menu on the display.

Pressebild 4:



The ABS optimised for performance on the trail intervenes particularly in the first braking phase to minimise braking errors. During initial braking, ABS Pro ensures stability, after which the intervention decreases noticeably – in favour of maximum braking performance.

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10 years of Uphill Flow

September 2024

How Bosch eBike Systems shaped mountain biking and changed an entire industry

- ▶ For ten years, Bosch Uphill Flow has epitomised the fascination of eMTB
- ▶ Uphill Flow has had a lasting impact on the MTB community and the bicycle industry and opened up new perspectives
- ▶ Uphill Flow as an inspiration and driving force for numerous product developments

Stuttgart/Reutlingen – Ten years ago, an idea was born that revolutionised mountain biking and changed the entire bicycle industry: Uphill Flow. The term is deeply rooted in the DNA of Bosch eBike Systems and both inspires and drives the company's product development.

"Uphill Flow stands for the fascination of exploring the technical possibilities of riding uphill, playing with physics and having fun with the eMTB uphill too," says Claus Fleischer, CEO of Bosch eBike Systems.

He coined the term in 2014 together with ex-trial professional Stefan Schlie. Out of curiosity, the two of them rode technical trails uphill together and quickly realised: "If only a fraction of mountain bikers think it's as cool as we do, it could become something really big."

Uphill Flow opens up new perspectives and possibilities for eMountain bikers, a new riding experience and adventures that go beyond conventional mountain biking. "The 'flow window' is outside your personal comfort zone, so that you are no longer bored, but put to the test. And it extends all the way to challenge sporting ambition, without getting to the point of overwhelm or stress. That's what makes it special, and everyone can feel it immediately. The eMountain bike enhances the flow experience."

A milestone in biking: from the idea to the new MTB dimension

What began as an idea after a day together on the trail has become a [success story](#) that has added a significant dimension to the sport of mountain biking:

uphill. Uphill Flow has led to an evolution of mountain biking in which the overall experience takes centre stage and not just the descent. "Uphill Flow turned everything that wasn't fun without the 'e' from eMTB into an experience – steep climbs peppered with obstacles, sections laced with tree roots and steps," continued Fleischer. This made long rides in a group more sociable, as you can ride together and chat. And long alpine bike adventures became possible without a shuttle or lift. Fleischer and Schlie have shaped the MTB world with their vision and, with their curiosity, laid the foundation for numerous product developments, bike infrastructure projects in tourist regions and new competition formats.

"Ten years ago, the eMTB was still completely unknown; something completely new that caused a lot of scepticism. But we were firmly convinced and launched the first drive specifically for eMountain bikes in 2015 with the Performance Line CX," explains Fleischer. As a result, the market picked up speed. Subsequently, more and more manufacturers adapted their designs and strategies, offered eMTBs in their portfolio and made the special riding experience accessible to more and more riders. The initial doubts gave way to fascination and took mountain biking to a new level. "The eMTB has changed the entire community," says Fleischer. "For performance mountain bikers and trail riders, they cannot imagine mountain biking without the 'e' from eMTB."

Uphill Flow has also made its way into the event and racing sector: competitions such as the [Bosch eMTB Challenge](#) with stages in Germany, Italy and Switzerland inspire participants with special uphill stages and technical sections. The International Cycling Union (UCI) has added the E-MTB Cross-Country and E-Enduro World Cup to its race calendar.

Uphill Flow as a driving force in development

Uphill Flow has become the company philosophy at Bosch eBike Systems. "Innovation comes from inspiration and inspiration comes from curiosity," says Fleischer, explaining his credo. Being curious and mastering gravity: Fleischer and Schlie discovered Uphill Flow for themselves ten years ago with this attitude. Since then, it has been the incentive for Bosch eBike Systems to develop new products with eMountain bikers in mind. "The perfect motor must support you so organically, so smoothly and intuitively that you don't think about it on the trail," reveals Fleischer. "This is the only way to achieve the perfect Uphill Flow."

Drive systems such as the Performance Line CX, Performance Line CX Race and Performance Line SX, the pioneering progressive-dynamic eMTB mode, the Extended Boost and many other technical developments from Bosch eBike Systems have been developed with the aim of enabling this special riding experience on the trail. What began as a vision in 2014 has become

synonymous with a riding experience that has positively shaped, expanded and changed the mountain bike world and the entire bicycle industry through innovations.

Press photo 1:



Ten years ago, an idea was born that revolutionised mountain biking and changed the entire bicycle industry: Uphill Flow.

Press photo 2:



Claus Fleischer, CEO of Bosch eBike Systems, coined the term Uphill Flow together with ex-trial professional Stefan Schlie in 2014.

Press photo 3:



Uphill Flow opens up new perspectives and possibilities for eMountain bikers, a new riding experience and adventures that go beyond conventional mountain biking.

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Claus Fleischer, CEO of Bosch eBike Systems, looks back on ten years of Uphill Flow: "The term is deeply rooted in the DNA of Bosch eBike Systems and both inspires and drives the company's product development.

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