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Press release
Bosch eBike Systems

June 2025

More flow for the city – and beyond
Bosch eBike Systems introduces new drive units with more power, a new battery and new features

- New in the smart system: Cargo Line, Performance Line Speed and Performance Line now even quieter, lighter and more powerful
- More power on demand: Higher, individually adjustable performance values for Cargo Line and Performance Line Speed
- Upgrade over-the-air: Performance Line SX with more powerful support on request
- More range for every day: The new PowerTube 540 battery
- New eBike Flow app features: Sharing the eBike with family and friends, digitally securing the battery with "Battery Lock"

Stuttgart/Reutlingen – Bosch eBike Systems is expanding its smart system with three new drive units for urban use. The Cargo Line, Performance Line Speed and Performance Line make eBiking even more comfortable and flexible in everyday life. Highlight: The Cargo Line and Performance Line Speed have received higher performance values (torque, power and support factor), which eBikers can adjust according to their needs in the eBike Flow app. With even more support, the new systems are quieter and lighter than ever before, yet reliable and efficient in the familiar Bosch quality. The Performance Line SX from the smart system is also even more powerful. The new product package is complemented by the new PowerTube 540 battery and other features in the eBike Flow app.

Maximum support for Cargo eBikes: the new Cargo Line

Bringing the kids to nursery in the morning, quickly taking parcels to the post office and then doing the weekly shop - with the new **Cargo Line** even heavy loads can be easily transported during daily life. This popular drive unit now delivers even more power: with up to 100 Newton metres of torque (previously up to 85) and 750 watts of maximum power (previously 600), eBikers can transport their children or shopping, even up steep climbs, with greater ease. They decide for themselves whether or not they want to set the new

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performance values in the eBike Flow app (under "Custom riding modes").[1] Higher performance values also mean greater wear and a shorter range - Bosch eBike Systems leaves this decision up to eBikers.
The tried-and-tested Cargo mode provides support of up to 400 percent - automatically and precisely when it's needed. The walk assistance and hill start assist, both featuring Hill Hold, also make handling easier.

The new Cargo Line is not only more powerful, but also more lightweight and quieter. It now weighs only 2.8 kilograms, which is approximately 100 grams lighter than its predecessor. The optimised gearbox reduces riding noise and pedal resistance to a minimum. At the same time, the improved sensor technology ensures smooth acceleration and precise handling – regardless of the load on the Cargo e-Bike. The sensitive response to the rider's pedal input enables greater control and an even more intuitive riding experience.

Get there faster – with the new Performance Line Speed
Anyone travelling long distances by eBike every day will find a reliable partner in the new **Performance Line Speed**. With maximum support of up to 400 percent up to 45 km/h, 100 Newton metres of torque and 750 watts of maximum power, the drive unit for S-pedelecs is the ideal system for commuters who want to ride at higher speeds and get there faster. As with the Cargo Line, the performance parameters can now be adjusted via the eBike Flow app.[2] The advantages: eBikers can accelerate faster at traffic lights, for example, and receive maximum support on steep climbs. Thanks to the improved software, the Performance Line Speed now responds even more precisely to pedal input. eBikers also benefit from the significantly reduced pedal resistance, meaning that they have greater rider power and reach their destination quickly and efficiently.

The Performance Line Speed is also approximately 100 grams lighter than its predecessor and impresses with its quiet riding noise. It offers great reliability thanks to its sturdy design – even when subjected to heavy use. The housing is robust as well as dust and splash water protected thanks to the sealing concept employed.

The Limit Mode limits the power of the S-pedelec to a maximum speed of 25 km/h on request, bringing it up to the level of a conventional eBike – practical for anyone who wants to go on relaxed tours at the weekend or deliberately avoid travelling faster in the city.[3]

Reliable all-rounder: the new Performance Line
Comfortable and reliable eBiking in everyday life and on excursions – that's the new **Performance Line** from Bosch. This versatile all-rounder offers up to

340 percent support, 75 Newton metres of torque and 600 watts of power. Weighing only 2.8 kilograms, the new drive unit is approximately 400 grams lighter than its predecessor. It supports eBikers with an powerful and even boost when starting off and ensures a particularly comfortable and natural riding experience.

More powerful Performance Line SX

The Performance Line SX has new maximum values: 60 Newton metres of torque (previously 55), 600 watts of power and 400 percent support (previously 340). Here, eBikers can decide for themselves whether they want to retain the default values or if they prefer to customise them to meet their individual needs in the eBike Flow app. The performance upgrade will be available to riders of the Performance Line SX via an update in the eBike Flow app in autumn 2025.[4] The eMTB+ mode, introduced in spring 2025, will also be available for Performance Line SX as a free update. It provides more support than the existing eMTB mode and offers maximum dynamics and control.

More range for every day: the new PowerTube 540

The new **PowerTube 540** battery is available now. Compared to the PowerTube 500 battery, the new battery now offers 540 watt hours of energy at the same weight – more range for daily commutes in the city or a relaxed weekend tour. The integrated battery meets high safety standards and can be combined with the PowerMore 250 range extender if required, providing almost 800 watt hours.

New eBike Flow app features: share eBikes and "Battery Lock"

Bosch eBike Systems adds two more functions to the smart system. The **use of an eBike by several people** is now even easier: In future, eBikers can invite up to five friends or family members to use their eBike via the eBike Flow app. Each invited user can create and save a personal profile on their own smartphone. To use the new function, only the person making the invitation needs a Flow+ subscription.

Another new feature, the **"Battery Lock"** function, will be available from summer 2025. This additional digital theft protection for the battery ensures that the eBike battery can no longer be used if it is stolen – and is therefore worthless to thieves. As soon as the function is active, the battery locks automatically when the eBike is switched off. If a locked battery is stolen and inserted into another eBike with a smart system, it automatically disables the motor support. This also makes reselling the battery pointless, which reduces the risk of theft.

[1] Delivered ex works: 85 Newton metres, 600 watts, 340 percent support. eBikers can adjust the performance values of the drive unit via the eBike Flow app. Note: Higher performance values can have a negative effect on range and wear. The eBike manufacturer can therefore limit the maximum performance values by means of a factory setting. In the eBike Flow app, only the maximum values specified by the manufacturer can be set.

[2] Delivered ex works: 100 Newton metres, 750 watts, 340 percent support. eBikers can adjust the performance values of the drive unit via the eBike Flow app. Note: Higher performance values can have a negative effect on range and wear. The eBike manufacturer can therefore limit the maximum performance values by means of a factory setting. In the eBike Flow app, only the maximum values specified by the manufacturer can be set.

[3] Only available for S-pedelecs in Europe. Activating Limit mode does not change the vehicle status.

[4] Delivered ex works: 55 Newton metres, 600 watts, 340 percent support. eBikers can adjust the performance values of the drive unit via the eBike Flow app. Note: Higher performance values can have a negative effect on range and wear. The eBike manufacturer can therefore limit the maximum performance values by means of a factory setting. In the eBike Flow app, only the maximum values specified by the manufacturer can be set. The upgrade over-the-air is only available for eBikes with derailleur system.

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

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Press release
Bosch eBike Systems

June 2025

Say goodbye to everyday life, start an adventure – with the Performance Line PX from Bosch eBike Systems

Strong support for adventure tours

- Premium system for eBike adventures and trekking rides
- Up to 90 Nm torque, 700 watts of power and 400% support
- Performance values can be customised in the eBike Flow app
- Powerful start-up behaviour thanks to precise sensor technology and software
- Optimised gearbox concept ensures barely audible support

Stuttgart/Reutlingen – Idyllic forest paths, sweeping river valleys or spectacular coastal routes – eBike rides offer countless adventures. With the Performance Line PX, Bosch eBike Systems is launching a premium system that has been specially developed for demanding bike rides, weekend trips and extended bike-packing rides.

"Whether on multi-day adventures with heavy luggage or on spontaneous discovery tours in nature: we have developed the Performance Line PX specifically for the needs of trekking riders. It was important to us that they receive powerful yet finely tuned support that adapts intuitively to their riding situation. With the robust and versatile system, eBikers can say goodbye to everyday life and discover new paths," says Claus Fleischer, CEO at Bosch eBike Systems.

Feel the power – and adjust it to suit you

With up to 90 Newton metres of torque, 700 watts of power and assistance of up to 400 percent, the Performance Line PX weighs approximately 2.9 kilograms and promises a powerful yet balanced riding experience.[1] The smart sensor technology responds precisely to pedal input and provides natural support for eTrekking riders on their tours. It also recognises start-up situations and gives them a powerful boost when required. Smart functions such as the familiar walk

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assistance or hill start assist make handling easier when starting uphill or on steeper terrain – an absolute bonus, especially when touring with heavy luggage.

Another positive point: eBikers can customise the performance values of the Performance Line PX to their personal requirements in the eBike Flow app.[1] Higher performance values also mean higher wear and lower range – Bosch eBike Systems leaves this decision up to eBikers. For example, the maximum torque can be increased on tours with many inclines and heavy luggage. If you are riding on long flat stages, you can reduce the motor support and thus optimise your range.

Naturally quiet – and comfortable

Enjoy nature while the Performance Line PX lets eBikers explore new surroundings – thanks to the optimised gearbox concept, this is possible: the drive unit provides particularly quiet support and remains smooth even when cruising. As usual, eBikers receive support up to 25 km/h, above which the gearbox decouples the motor and the eBike can be pedalled with hardly any noticeable resistance. With Auto mode, adventurous riders can simply keep pedalling, even on ascents and into headwinds, as the riding mode automatically provides optimum support. This means you don't have to switch between riding modes and can simply enjoy the ride.

Don't waste any thought on the gear shifting operation

If you want even more comfort on your trekking ride, you should not miss out on the eShift electric gear shifting solution. With the automatic solution, the eBike with the Performance Line PX automatically shifts to the appropriate gear – according to the individually selected cadence. This allows eBikers to ride more evenly and focus fully on the route. A positive side effect: material wear on the system is also reduced. eShift with automatic shifting is already available with the shifting systems from enviolo and TRP. New: eShift is now also available with shifting systems from Shimano.

Smart tour helpers: 3D map display, annual overview of ride data and optimised eBike ABS

For an even better overview, the ride screen in the eBike Flow app now offers eBikers a **3D map display** of the terrain and visualises the elevation graph of the immediate surroundings. This way, adventurous travellers always know what to expect on the next leg of their journey. Also new: In the statistics, eBikers can see an **annual overview** of the number of all rides, the distance travelled, the trip time and the elevation. These valuable statistics apply to all eBikes registered in the eBike Flow app. The two new functions require a Flow+ subscription.

If you are travelling downhill with fully loaded panniers or the route leads over slippery gravel or wet forest paths, the Bosch eBike ABS in ABS Allroad mode is your reliable partner. Precise sensors in the Performance Line PX measure the inclination and speed of the eBike very accurately and ensure optimum brake support. This allows eBikers to brake more safely in the event of sudden obstacles and enjoy a smoother ride overall. The Performance Line PX is available in conjunction with Bosch eBike ABS with brakes from Magura, TRP and Shimano.

Enjoy nature responsibly

The Performance Line PX lets you experience maximum support on adventure tours, while also enjoying nature at the same time. To achieve this, Bosch eBike Systems has taken various measures to reduce its Product Carbon Footprint[2]. Firstly, around 40 percent recycled aluminum is used in the housing of the drive unit. This has enabled almost half of the CO_2 emissions from the housing to be cut[3]. Secondly, Bosch eBike Systems uses recycled plastic[4] for some components in the drive unit – thereby supporting the circular economy.

[1] Delivery ex works: 85 Nm, 600 W, 340% support. eBikers can adjust the performance values of the drive unit via the eBike Flow app. Note: Higher performance values can have a negative effect on range and wear. This allows the eBike manufacturer to limit the maximum performance values by means of a factory setting. In the eBike Flow app, only the maximum values specified by the manufacturer can be set.

[2] The Product Carbon Footprint can be used to record the emissions generated during the production and manufacture of a product. We have considered the effects of CO_2 as well as other greenhouse gases and climate-relevant substances, insofar as these are relevant to the analysis. For ease of reading, we use CO_2 synonymously with CO_2 equivalents.

[3] Savings compared to the use of conventional aluminium. These savings are partially attributable to the use of green electricity in the production of recycled aluminium. The calculation is based on supplier data.

[4] The grease guide plate, torque sensor housing and wire feeder are among the largest plastic parts in the drive unit. The grease guide plate and torque sensor housing are manufactured using more than 50% recycled material, while the wire feeder has a recycled content of approx. 35% (source: supplier data).

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Press release
Bosch eBike Systems

June 2025

Even more riding comfort: Bosch expands eShift portfolio
New functions, partners and gear shifting

- Extended and improved automatic function
- Newly integrated: performance derailleur systems from Shimano and TRP
- First eShift with automatic for Shimano gear shifting
- Additional partner in the eShift portfolio: Classified

Stuttgart/Reutlingen – From relaxed eBiking in the city to sporty tours on an eMountain bike: With the eShift electric gear shifting solution, Bosch eBike Systems integrates gears from various manufacturers into the smart system. Whether for manual or automatic gear shifting: This makes the eBike riding experience noticeably more comfortable. Now the portfolio is being expanded even further together with Shimano, TRP and Classified.

"The advantages of eShift are obvious: automatic gear shifting at the optimum time, more riding fun, less wear and tear and above all - a clear head for the flow. eShift is the solution for efficient and simple gear change - and will become increasingly popular in the future. With new functions and additional gears, we are expanding our existing portfolio and now offer eBike riders even greater convenience when choosing their eBike - from eUrban and Trekking eBikes to eMTBs," says Claus Fleischer, CEO of Bosch eBike Systems.

Automatic gear shifting: More compatible Drive Units and optimised software

Bosch eBike Systems is now making the eShift automatic function available for almost all Drive Units in the smart system.[1] This means that eShift can be integrated into almost all eBike categories - and can therefore be experienced by even more people. The software of the automatic function has also been further optimised for a better riding experience. eShift reacts more directly to inclines, changes gears more quickly according to the riding dynamics and shifts more dynamically - adapted to the surface on which you are riding.

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New in the eShift portfolio: performance derailleur systems from Shimano and TRP

Sporty eMountain bike riders who rely on Shimano derailleur systems can now benefit from more efficient and even automatic gear shifting operations with eShift. Bosch eBike Systems connects the popular XTR Di2, Shimano DEORE XT Di2 and Shimano DEORE Di2 gear shifting to the smart system. eShift supports both manual and semi-automatic or automatic gear shifting in conjunction with the shifting system. eBike riders can choose between 'shift yourself' and 'let it shift' and change gears flexibly at the touch of a button, depending on the riding situation. The eBike display or ride screen shows which variant is currently active: 'M' for manual gear shifting, 'M+' for semi-automatic gear shifting and 'A' for automatic gear shifting.

In addition to the established TRP E.A.S.I., there is also the TRP E.A.S.I. A12 now offers a larger selection for further applications: The TRP E.A.S.I. A11. and the TRP E.A.S.I. A10. expands the eShift portfolio for eBike riders who enjoy trekking or gravel tours. The 11-speed and 10-speed drivetrains deliver precise gear shifting and also allow easy gear shifting between automatic, semi-automatic and manual gear shifting. eBike riders can change several gears at once at the touch of a button - even while rolling.

Update: Automatic function for already compatible Shimano gears

The automatic function comes as an over-the-air update: Bosch eBike Systems is expanding the range of functions for the Shimano NEXUS Di2 hub gear system and the Shimano CUES Di2 derailleur systems. Anyone using an eBike with a Shimano shifting connected to eShift will be able to have the automatic function installed via the eBike Flow App or via specialist dealers from autumn 2025. The shifting itself must also be updated via an over-the-air update using the Shimano app or via a specialist dealer.

The range of functions of the Shimano NEXUS Di2 hub gear system has also been expanded: in future, users will be able to set an individual starting gear via the eBike Flow app. eShift recognises when the bike is stationary and automatically shifts to the defined starting gear. This popular function ensures a more relaxed riding experience in stop-and-go situations in city traffic, for example.

New partner in the eShift portfolio: Classified

Another partner has been added to the range of compatible solutions: eShift now supports the 2-speed Powershift hub gear systems from Classified for manual gear shifting. The system recognises the pedal position and changes gear at the

optimum time. The display clearly shows the current gear and a shift recommendation. The solution will be available from autumn 2025.

Ride smoothly in the right gear

Bosch eBike Systems presented the first eShift solutions for electric gear shifting back in 2014 and has since developed them further together with various gear shifting partners. Depending on the shifting, an electric gear change offers two major advantages for eBike riders: The automatic shifting automatically adjusts the gear to a pre-set cadence. This means eBike riders always ride in the right gear ratio and the riding experience is much more relaxed and comfortable. When gear shifting manually, eShift ensures optimum gear shifting at the ideal time. The motor support is cancelled for fractions of a second. The gear changes are rendered smooth and silent. A positive side effect: material wear on the Drive Unit is reduced.

[1] The Drive Unit Performance Line Speed (BDU378Y) is not included.

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Press release
Bosch eBike Systems

Bosch continues to develop eBike ABS
Shimano as a new partner, new compatible brake models and optimised software

June 2025

- New partner: Bosch eBike ABS and ABS Pro also available with Shimano brakes for the first time
- More choice in the sporty and urban sector: more brake models from Magura and TRP compatible
- New sensor, optimised software: eBike ABS and ABS Pro become even more powerful

Stuttgart/Reutlingen – Bosch eBike Systems is pushing ahead with the development of its eBike ABS: With Shimano as a new partner and additional compatible brake models from Magura and TRP, eBike riders now have even more choice. At the same time, the optimised ABS software ensures noticeably better control when braking.

"It is important to us that eBike riders feel safe in every riding situation. With the eBike ABS and the ABS Pro we are making an important contribution to this," says Claus Fleischer, CEO of Bosch eBike Systems. "In order to make this security enhancement accessible to as many people as possible, we are systematically expanding our range. The expanded portfolio creates more choice and convenience - for both manufacturers and end customers."

New partnership: eBike ABS compatible with Shimano brakes
For the first time, the Bosch eBike ABS and the eBike ABS Pro are compatible with brakes from Shimano and optimally matched to them. Demanding eMTB fans in particular benefit from this: The latest XTR (BR-M9220) and Shimano DEORE XT (BR-M8220) models, together with the ABS Pro, enable uncompromising trail rides. However, Shimano brakes are also used in other eBike categories - from City eBikes to Trekking eBikes and eMTBs. The Shimano BR-MT420 and Shimano BR-MT200 models are now also compatible with the Bosch eBike ABS and provide extra control and a superior riding experience.

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New brakes from Magura and TRP - for sporty and urban conditions

Bosch eBike Systems is also expanding its portfolio of compatible brakes with its existing ABS partners, offering eBike riders even more choice for different conditions. Magura is presenting a high-performance solution for demanding mountain bikers with the Magura Gustav Elite, while the new Magura Louise Elite has been specially developed for urban use. Both brakes are now compatible with Bosch eBike ABS. TRP complements the range with the new TRP EVO Pro - a brake that is specifically tailored to the requirements of eMTB riders with the Bosch eBike ABS Pro.

Even more control when braking

Bosch has further optimised the ABS software to regulate the brake pressure more precisely. A new sensor in the Drive Unit[1] measures the inclination of the eBike even more accurately, allowing the eBike ABS to calculate more precisely when there is a risk of a rollover. In this way, the Bosch eBike ABS can further reduce the braking distance. The new integrated sensor also enables a cleaner design without a sensor disc on the rear wheel.

More control, more flow: the evolution of Bosch eBike ABS

The Bosch eBike ABS helps to prevent the front wheel from locking and supports eBike riders in avoiding a possible skid or rollover. On the trail, it provides more riding stability, while the eBike ABS Pro is aimed at experienced eMountain bike riders who want to expand their skillset. Since the introduction of the first eBike ABS in 2018, Bosch eBike Systems has consistently developed the technology further: the second generation followed in 2022 and the eBike ABS Pro was introduced in 2024 for particularly demanding conditions. With the now extended compatibility and the new software, Bosch is taking the next step - for more security, riding fun and flow.

[1] The new sensor is available for the Performance Line CX (BDU384Y), Performance Line CX-R (BDU386Y), Performance Line Speed (BDU388Y), Performance Line PX, Performance Line (BDU346Y) and Performance Line Sport (BDU347Y).

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Bosch eBike Systems *is shaping the future of eBike mobility with innovative products and digital services ranging from highly efficient drive systems and the first series-ready ABS for eBikes to connected biking solutions. On daily routes through the city, on enjoyable tours through the countryside or for sporty adventures in the mountains: Bosch eBike Systems offers eBikers the right drive system (drive unit, battery, display and app) for every requirement and every area of use, which ensures a unique riding experience. Today, more than 100 of the world's leading bicycle brands trust in the perfectly coordinated, modular product portfolio. As an independent business unit within the Bosch Group, Bosch eBike Systems also uses the group's technology and manufacturing know-how. For healthy, safe and sustainable mobility that is fun.*

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The ***Bosch Group*** *is a leading global supplier of technology and services. It employs roughly 418,000 associates worldwide (as of December 31, 2024). The company generated sales of 90.3 billion euros in 2024. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture user-friendly, sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 490 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. At 136 locations across the globe, Bosch employs some 87,000 associates in research and development.*

Additional information is available online at www.bosch-press.com, www.bosch-mobility.com, www.bosch.com.