

Bosch eBike Systems expands smart system portfolio

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Product innovation for minimalist eGravel bikes, stylish eUrban bikes and lightweight eMountain bikes

- ▶ New compact Performance Line SX drive for eGravel bikes, eUrban bikes and light eMTBs
- ▶ More riding comfort in the city: Active Line and Active Line Plus now part of the smart system
- ▶ Purion 200: Control unit and colour display in one, Kiox 500: Large display for treks or everyday rides
- ▶ Integrated eShift electric gear shifting for hub gear systems
- ▶ High energy density with low weight: New CompactTube 400 and PowerMore 250 batteries

Stuttgart/Reutlingen - Lighter and quieter drives, fully networked colour displays, slimmer batteries – these are just some of the numerous product innovations that Bosch eBike Systems has presented for eBikes with the smart system. For the 2024 model year, the company has expanded the modular portfolio of the smart system whilst also further expanding its digital capabilities. Whether in the city or in the countryside, Bosch's new products and digital features enable eBikers to enjoy maximum flow in all riding situations.

"The smart system represents the digital future of eBiking. With it, the physical and digital eBike experiences merge. In order to inspire eBikers again and again, we are continuously expanding the smart system with new hardware and digital features," explains Claus Fleischer, CEO of Bosch eBike Systems. "In the coming model year, we have matching product innovations for minimalist eGravel bikes, stylish eUrban bikes and lightweight eMountain Bikes – ensuring even more comfort and long-lasting riding fun."

New lightweight eBiking

Lightweight eBikes are in vogue; on the trail or for fast training laps, they enable better handling and even greater agility. They excel in the city with their sleek look and have the added benefit of being easy to carry to store in a basement or flat. The new Performance Line SX drive unit has been specially developed for light eMTBs, eGravel bikes and eUrban bikes, combining high performance with low weight – making it the Bosch drive with the highest power density.

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With its particularly quiet and natural support, the Performance Line SX combines the riding sensation of a conventional bicycle with the advantages of an eBike. In conjunction with the new Sprint riding mode, it is equally suitable for sporty rides and for speedy travel in urban areas.

The necessary energy is provided by the new CompactTube 400 battery, which is optimised for the Performance Line SX. Those who have longer distances to cover can increase their range by a further 60 percent with the PowerMore 250 range extender. Together with the Performance Line SX, CompactTube 400, System Controller and Mini Remote (Dropbar), the entire drive system weighs around four kilograms.

Active Line drive units enhance riding comfort with the smart system

The Active Line and Active Line Plus drive units will also join the smart system portfolio for eCity and eTrekking bikes from Summer 2023. As the quietest drives in the Bosch eBike Systems portfolio, they are ideal for leisurely rides. Thanks to the sensitive sensor concept, the new drive units are highly responsive to riding behaviour, ensuring a smooth start. While the Active Line is suitable for city trips, the more powerful Active Line Plus is also recommended for lengthy rides beyond the city limits.

Simple and comfortable gear changes with eShift

Riding comfort is also enhanced by the electric eShift gear shifting solution, which will also be available for eBikes with the smart system and hub gear systems from autumn 2023. It makes changing gears easier and more comfortable: eBikers can simply pedal and select the desired gear. The smart system ensures optimal gear shifting at all times. For the smart system, eShift will initially be available with the Rohloff, 3x3 and Enviolo shifting system.

Lightweight batteries, high flexibility

Whether for sports use, commuting to the office or on long rides, the new batteries for the smart system will help eBikers find the right battery for every requirement. The new CompactTube 400, which has been optimally designed for lightweight eBikes, weighs only about two kilograms. Delivering 400 watt hours, it provides enough energy for trail rides, training or city trips with the new Performance Line SX.

When eBikers are planning a longer ride, the PowerMore 250 range extender increases the range by 250 watt hours. It is about the same size as a water bottle and in most cases can be retrofitted to the frame by a specialist dealer. Other additions are the new PowerPack 400 Frame as the smallest and lightest frame battery from Bosch eBike Systems (400 watt hours, approx. 2.2 kilograms) and the PowerPack 400 Rack and PowerPack 500 Rack rack batteries (400 and 500 watt hours respectively). The latter impresses with improved theft protection and a slimmer design, making it particularly suitable for eCity Bike rides.

In future, all batteries in the smart system will become DualBattery-capable: This means that batteries can be combined with each other to achieve even greater

ranges for transporting heavy loads, long commutes or extensive rides. For eBikers, this means greater flexibility to meet their individual needs – whether requiring additional energy or seeking to keep the weight of their eBike down, they decide.

A new compact charger is the 2A Charger. Around 25 percent lighter and 40 percent smaller than the 4A Charger, it can be comfortably carried and easily stowed away on lengthy rides well as on the way to work.

Connected control units and displays that leave nothing to be desired

With the Purion 200, Bosch presents a compact control unit that also functions as a colour display. Thanks to the high resolution and integrated ambient light sensor, important information such as the exact battery charge percentage, riding mode, time and total distance can be optimally read when riding - even in changing light conditions.

Another advantage: Purion 200 can be combined with a second display if required. For example, eBikers can have their cadence or speed displayed on the Purion 200, while the navigation screen is shown on the second display – e.g. the Kiox 300 or the smartphone on the SmartphoneGrip. Together with the ergonomic operation of the buttons, this provides even greater comfort and flexibility on lengthy treks or rides in the city.

Another new addition to the display family is the Kiox 500. With a 2.8-inch diagonal screen, the colour display is about 40 percent larger than the Kiox 300. Thanks to its large display, the Kiox 500 can be read safely and quickly, even under demanding conditions. A particularly practical feature is the acoustic cues that signal to users during navigation if they deviate from the planned route or when they arrive at their destination. In future, eBikers will be able to customise the display on the Kiox 500 and also on the Kiox 300 via the eBike Flow app and therefore determine the order and content of the screens.

In addition, Bosch eBike Systems presents some digital features for the 2024 model year that make eBiking even safer and more customisable. Detailed information on this can be found in the other press releases in the press kit.

Product availability:

From Summer 2023:

- Performance Line SX
- Sprint mode
- Active Line
- Active Line Plus
- CompactTube 400
- Purion 200
- Kiox 500
- Individually customisable display on the Kiox 300 and Kiox 500
- 2A Charger

From Autumn 2023:

- PowerMore 250
- PowerPack 400 Frame
- PowerPack 400 Rack
- PowerPack 500 Rack
- Mini Remote Dropbar
- eShift for hub gear systems
- DualBattery function with selected batteries of the smart system

Press photo 1:



The new Performance Line SX drive unit has been specially developed for light eMTBs, eGravel bikes and eUrban bikes. It combines high performance with low weight – making it the Bosch drive with the highest power density.

Press photo 2:



The new CompactTube 400 weighs only around two kilograms, but with 400 watt-hours it provides enough energy for trail rides, training or city trips with the new Performance Line SX.

Press photo 3:



If eBikers are planning a lengthy ride, the PowerMore 250 increases the range by 250 watt hours.

Press photo 4:



The Active Line and Active Line Plus drive units are now also part of the smart system. While the Active Line is suitable for city trips, the more powerful Active Line Plus is also recommended for lengthy rides beyond the city limits.

Press photo 5:



With Purion 200, Bosch presents a compact control unit that also functions as a colour display. It can be combined with a second display as required.

Press photo 6:



With a diagonal screen dimension of 2.8 inches, the new Kiox 500 colour display is about 40 percent larger than the Kiox 300. The large display can be read safely and quickly, even under demanding circumstances.

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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.

For more information please visit www.bosch-ebike.com

The Bosch Group is a leading global supplier of technology and services. It employs roughly 421,000 associates worldwide (as of December 31, 2022). The company generated sales of 88.2 billion euros in 2022. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 470 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. With its more than 400 locations worldwide, the Bosch Group has been carbon neutral since the first quarter of 2020. The basis for the company's future growth is its innovative strength. At 136 locations across the globe, Bosch employs some 85,500 associates in research and development, of which nearly 44,000 are software engineers.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861–1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-four percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a charitable foundation. The remaining shares are held by Robert Bosch GmbH and by a corporation owned by the Bosch family. The majority of voting rights are held by Robert Bosch Industrietreuhand KG, an industrial trust. The entrepreneurial ownership functions are carried out by the trust.

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