

Press release



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Summer eBike novelties from Bosch: from ABS to super-light electric drive

- Bosch is expanding its eBike solutions with innovative developments, new hardware and digital functions, which are available from Summer/Autumn 2023.
- Bosch presents the compact Performance Line SX drive with maximum support with minimum space and weight for urban and trail eBiking.
- CompactTube 400 is the lightest battery in the Bosch eBike portfolio, also featuring the highest energy density, can be integrated into the frame down tube.

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. "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 modular smart system with new hardware and digital features", explains Claus Fleischer, CEO of Bosch eBike Systems.

eBike ABS: up to 29 percent of accidents could be mitigated or prevented

Introduced last year, the Bosch eBike ABS makes braking safer on any surface, significantly reducing the risk of falling or being thrown over the handlebars. If all eBikes were equipped with ABS, up to 29 percent of all accidents involving eBikes could be mitigated or completely prevented each year – as proven in studies conducted by Bosch Accident Research.

Bosch eBike Systems has announced that it is collaborating with the Taiwanese brake specialist Tektro – well-known also in Hungary – in manufacturing eBike ABS systems. Alongside Magura, Tektro is another renowned brake manufacturer that Bosch is working together with. "We are firmly convinced that eBike ABS will

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become established on all eBike types in the long term and will become standard on high-quality eBikes“, said Claus Fleischer.

Maximum support in minimum space: Bosch launched its new compact drive system

With the Performance Line SX, Bosch eBike Systems is setting new standards for sporty riding with lightweight eMTBs, eGravel bikes, and eUrban bikes. The new drive unit combines high performance with low weight – making it the Bosch drive with the highest power density. These features and the finely tuned support ensure a natural riding sensation and enable sporty eBiking on the trail and intensive training rounds on gravel, as well as fast rides through the city. The new compact drive delivers a maximum torque of 55 Newton metres and a power-to-weight ratio of up to 300 watts per kilogram. The peak power of up to 600W that can be generated at high cadence supports eBikers on steep uphill sections. On flatter terrain or in downhill sections, the drive unit provides the necessary agility and excels by virtue of its extremely efficient and energy-saving handling. The weight of the entire system, in conjunction with the battery, is around four kilograms.

With the innovative, very low-noise motor and gearbox concept, and the barely noticeable pedal resistance, eBikes equipped with the new system are particularly smooth and easy to ride even above 25 km/h.

Hidden battery integrated into the frame down tube

The necessary energy is provided by the new CompactTube 400 battery that can be integrated into the frame down tube. This is the lightest battery in the Bosch eBike portfolio, also features the highest energy density thanks to innovative cell technology. It has a capacity of 400 watt-hours – more than sufficient for sporty riders.

New eBike charger that fits anywhere

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.

eShift: simple and comfortable gear shifting for hub gear systems

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. 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.

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Basic information:

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 Solutions, 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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