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Press release
Bosch eBike Systems

July 2022

Bosch eBike Systems presents innovations for model year 2023

Safer and more carefree riding: New products and features for even more riding enjoyment, with the smart system

- Greater choice for an even more individual riding experience: Bosch eBike Systems expands the latest system generation portfolio
- The new Bosch eBike ABS: Safer braking and more riding enjoyment for every eBike category and on different surfaces
- Enhanced digital theft protection: New eBike Alarm function makes parking eBikes even more secure with the smart system
- More comfort, more performance: New features for eMTBs with the smart system and, for the first time, all the advantages of the latest system generation for the eCargo bike

Stuttgart/Reutlingen – Bosch eBike Systems presents its innovations for model year 2023 at Eurobike, the leading trade fair for the bicycle and eBike industry. It is celebrating its debut in Frankfurt this year and, with its focus on sustainability, also underlines the growing social importance of eBikes. Bosch eBike Systems helped shape both developments at an early stage and, with the 2023 model year innovations, is now offering tailor-made products and features that further support this transformation.

"Sustainable and safe mobility is becoming increasingly important, especially in cities: The eBike is already demonstrating how extremely important it will be for the mobility of the future," says Claus Fleischer, CEO of Bosch eBike Systems. "Last year, we presented our vision for the connected eBike and we have been continuously shaping it with new products and features ever since. The eBike, from the eCargo bike and the trekking bike to the eMTB, is therefore becoming even more a part of our everyday digital life – and is becoming even safer thanks to our innovations."

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The smart system as the basis for a safer and more carefree eBike experience

All components in the smart system – consisting of the eBike Flow app, rechargeable battery, display, control unit and drive unit – are fully connected to each other and are always kept up to date through regular updates over-the-air. The numerous new products and features for model year 2023 now enhance the latest system generation and ensure even more riding enjoyment, performance and safety. For many years, Bosch eBike Systems has been pursuing the goal of increasing road safety for eBikers so that they can enjoy the flow in an even more relaxed way.

The new Bosch **eBike ABS** plays a central role here: In the smart system, safer braking is now possible for every eBike category, and on different surfaces, thanks to different ABS modes. The additional theft protection **eBike Alarm** allows you to park your eBike more securely: The new alarm function, in conjunction with the new ConnectModule and eBike Lock, warns eBike owners in the event of attempted theft and allows the position of the eBike to be determined. This ensures more carefree parking for eBikers.

eCargo bikes are conquering cities – and are now also available with the smart system

In urban areas, the continued love of eBikes is reflected in the ever-growing number of cargo bike riders. Particularly in the suburbs, the eCargo bike is establishing itself as a sustainable alternative to the car, taking over transportation tasks. Now, cargo bike riders can also enjoy the advantages of the smart system. For more safety and comfort when doing the weekly shopping or dropping the kids to daycare, Bosch eBike Systems offers the new **ABS Cargo** and **Cargo mode.** Both are specifically designed to meet the requirements of eCargo bikes. ABS Cargo enables faster, safer and more accurate braking, while the Cargo riding mode ensures that cargo bike riders can start smoothly and comfortably, even when carrying a full load.

Another new feature: **Auto mode** – not just for eCargo bikes, but for all eBikes with the smart system. In this riding mode, the support provided by the drive is automatically adapted to the environmental conditions, for example if there are headwinds or on uphill gradients, without eBikers having to exert more effort or switch riding modes.

New eMTB products and features allow the individual best riding sensation and the ultimate Uphill Flow

Outside the city, more and more eMountain bikers are taking to the trails – because mountain biking has become a popular sport over the past 30 years. To

help them achieve maximum performance and maximum riding enjoyment during their rides, Bosch eBike Systems has worked together with eMountain bike athletes to develop the revolutionary **ABS Trail**. It makes braking on difficult terrain easier for newcomers to eMountain biking, casual bikers and trail enthusiasts alike and helps them refine their riding technique and increase their performance on the trails. The new **Hill Hold function,** which prevents the eBike from rolling back unintentionally when pushing it uphill, also ensures a carefree eMTB experience. The new **System Controller** and **Mini Remote** control units are ideal for sporty riding and also offer a minimalist and clean eMTB look.

More individual riding experience thanks to new drives, control units, features and another display

In fact, the 2023 model year innovations go beyond individual highlights. One year after presenting the smart system, Bosch eBike Systems has expanded the portfolio with various new drives, batteries, control units and features, as well as another display. This makes the eBike experience even more individual, and diverse, for all riders. The **Performance Line, Performance Line Speed** and **Cargo Line** drive units are now also available on eBikes with the smart system. In addition, the **PowerTubes 500** and **625** and the **PowerPacks 545** and **725** offer optimal energy content for every situation.

A year ago, the smart system was introduced as the cornerstone for eBike mobility of the future. The new features in model year 2023 show that the future is now.

Detailed information on the new Bosch eBike ABS, eBike Alarm, new features for the eCargo bike and eMTB, as well as all other new products in model year 2023, can be found in the other press releases in the press kit.

Product availabilities

From summer 2022:

- eBike ABS
- Cargo Line
- Performance Line
- Auto mode
- Cargo mode
- Hill Hold
- PowerTube 500 and 625
- eBike Flow App: Update komoot integration
- eBike Flow App: Update for Apple Watch user

From autumn 2022:

- eBike Alarm
- Intuvia 100
- System Controller
- Mini Remote
- PowerPack 545
- Digital Service Book

From the beginning of 2023:

- Performance Line Speed
- PowerPack 725

Press photo 1:



Bosch eBike Systems adds new products and features to the smart system portfolio in model year 2023.

Press photo 2:



Safer and more carefree riding: The new eBike ABS for the smart system significantly reduces the risk of falling or being thrown over the handlebar.

Press photo 3:



The additional theft protection eBike Alarm allows you to park your eBike more securely: The new alarm function, in conjunction with the new ConnectModule and eBike Lock, warns eBike owners in the event of attempted theft and allows the position of the eBike to be determined.

Press photo 4:



Cargo bike riders can now also enjoy the advantages of the smart system. Bosch eBike Systems ensures more safety and comfort with the new ABS Cargo and Cargo mode.

Press photo 5:



In the new Auto mode, the support provided by the drive is automatically adapted to the environmental conditions, for example if there are headwinds or on uphill gradients, without eBikers having to exert more effort or switch riding modes.

Press photo 6:



With the new ABS Trail mode, the Hill Hold function and other new products and features, Bosch eBike Systems ensures even more riding enjoyment on the trail.

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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 to the first production-ready ABS for eBikes and Connected Biking solutions. On the daily routes through the city, on leisurely rides through the countryside or for sporting 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, ensuring a unique riding sensation. 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 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 402,600 associates worldwide (as of December 31, 2021). The company generated sales of 78.7 billion euros in 2021. 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 440 subsidiary and regional companies in some 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 128 locations across the globe, Bosch employs some 76,100 associates in research and development, of which more than 38,000 are software engineers.*

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Press release
Bosch eBike Systems

July 2022

Bosch eBike Systems presents its new eBike ABS
The world's smallest ABS, developed based on motorcycle technology, makes eBiking even safer

- Anti-lock braking function, and rear wheel lift control, increase safety on high-grip and loose or slippery surfaces
- The right ABS for every type of eBike thanks to different ABS modes
- ABS Trail ensures greater riding enjoyment and better performance during sporty driving manoeuvres
- Small and lightweight control unit with minimalist design

Stuttgart/Reutlingen – A good braking technique is an important basis for riding safety on roads and trails. With the new ABS for the smart system, Bosch eBike Systems ensures better braking on any surface. Whether using eCargo to get around the city or eMTB on challenging trails: The new Bosch eBike ABS with brake components from MAGURA is designed to meet the requirements of different types of eBike and can therefore reduce accidents even more effectively.

Incorrect braking is one of the main causes of cycling accidents. "The front wheel brake on a bicycle is crucial for a short braking distance. But many people avoid using this because they are afraid of falling due to the high braking effect", says Claus Fleischer, CEO of Bosch eBike Systems. "The Bosch eBike ABS specifically counteracts this by significantly reducing the risk of falling or being thrown over the handlebar." In fact, up to 29 percent of all accidents involving pedelecs could be reduced, or completely prevented, each year if all pedelecs had reliable ABS. Studies conducted by Bosch Accident Research have shown this.

The new eBike ABS: Smaller, lighter, well-designed

Safety is particularly important to Bosch. More than 40 years ago, the company brought the world's first production-ready ABS for cars into the market. Bosch has been manufacturing anti-lock braking systems for motorcycles since 1995 and launched the world's first ABS for pedelecs in 2018. With the new ABS,

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Bosch eBike Systems now presents the world's smallest ABS developed based on motorcycle technology. This means that for the first time, eBike manufacturers can equip all types of eBike with the optimised brake assist technology from Bosch. The control unit in the new Bosch eBike ABS is 77 percent smaller and 55 percent lighter than its predecessor and blends unobtrusively into the design of the eBike thanks to its integration into the entire system.

The right mode for every type of eBike

Bosch offers different modes for the new eBike ABS, each of which is optimally designed for the braking requirements of different types of eBike and surfaces. Owners of an eCargo bike with **ABS Cargo** benefit from fast, safe and more accurate braking even when carrying a full load. **ABS Touring** is ideal for riding the eCity bike in the city, where changing road surfaces, pedestrian crossings and traffic lights are part and parcel of every trip. Or for weekend excursions into the countryside with the trekking eBike. **ABS Allroad** was specifically developed for easy off-road riding so that eMountain bikers can pursue their passion and enjoy more carefree and safer riding on gravel and forest paths. While **ABS Trail** mode, which was developed together with athletes, is directed more towards sporty eBikers who are always looking for new challenges - on demanding trails and difficult terrain. ABS Trail helps them to ride with more foresight, control and focus in surprising situations, such as a steeper slope or a blind bend. In this way, eBikers can refine their riding technique even further and increase their performance on the trails, while enjoying a safer ride. When riding on gravel paths or asphalt roads, they can simply switch from ABS Trail to ABS Allroad in the eBike Flow app or using the Kiox 300 display.

Recent braking data can also be retrieved using Kiox 300. In this way, eBikers can see and analyse their braking distance, or braking time, in order to gradually improve their braking behaviour on different surfaces.

Greater safety on different surfaces

ABS is activated automatically as soon as you start pedalling. Two basic functions in particular, which make the braking and riding experience significantly safer, are crucial for the effectiveness of the Bosch eBike ABS. For example, the anti-lock braking function of the front wheel automatically regulates the brake pressure by permanently monitoring the speed of the wheels. Preventing the wheels from locking during braking. The sensitive braking behaviour increases control and stability, particularly on slippery surfaces. Rear wheel lift control reduces the risk of the rear wheel lifting off on high-grip surfaces. Since it reduces the probability of being thrown over the handlebar, this function contributes significantly to safer and accident-free riding.

The new Bosch eBike ABS with brake components from MAGURA will be available from summer 2022. The available ABS mode depends on the respective eBike category set by the bike manufacturer. Prospective customers should check whether the new eBike ABS is installed when purchasing an eBike, or talk to their specialist dealer, as this cannot be retrofitted.

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Press release
Bosch eBike Systems

July 2022

Bosch eBike Systems takes digital theft protection to a new level
New eBike Alarm function provides more safety and better protection

- Carefree parking: eBike Alarm informs users about the location of their eBike and sounds an alarm in the event of suspicious movements
- Helpful tracking: If their eBike is stolen, users receive a push notification on their smartphone and location tracking starts
- Automatic protection: eBikers benefit from simple and convenient use

Stuttgart/Reutlingen – Bosch eBike Systems expands its theft protection by an innovative feature to make parking eBikes even more secure with the smart system. The new eBike Alarm function provides more comprehensive digital theft protection in addition to the mechanical lock. This allows more carefree parking of the eBike.

"Anyone who decides to buy an eBike should also be able to enjoy it for a long time," says Claus Fleischer, CEO of Bosch eBike Systems. "We are now providing even more security with smart system technology. Thanks to the new eBike Alarm function, users can be more relaxed about parking their eBike, reassured that they will be informed about the status of their eBike via the eBike Flow app."

Activated, informed and alerted: Digital protection with the eBike Flow app
The eBike Alarm simply requires one-time activation via the eBike Flow app. The feature is always active, with an existing GPS connection when the eBike system is switched off. The smartphone serves as the key. At the same time, users can see the location and security status of their eBike at any time in the eBike Flow app. The eBike is therefore protected and easy to find again.

If the eBike Alarm registers that someone is tampering with the eBike, the system responds with a two-stage alarm. Thanks to a smart motion detector, it can tell whether your eBike has been moved a little or a lot. In the case of slight

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movements, the eBike system emits several short warning tones as a deterrent. If the eBike is moved a lot and the matching digital key, i.e. the person's smartphone, is not nearby, it alerts the surroundings to the attempted theft by emitting a loud alarm tone. It also sends a notification to the smartphone. To prevent eBikers from worrying unnecessarily, this alarm is only triggered in critical situations.

Automatic tracking in the event of theft

If the eBike is stolen, the eBike Alarm function sends out a notification and automatically starts tracking. The eBike Flow app can then be used to determine the location of the eBike and forward the relevant data to the police – this is particularly crucial in the first two hours to increase the chance of finding the eBike again. In addition, the eBike Flow app gives users tips on what to do in the event of theft.

To use eBike Alarm, the eBike Lock feature must be activated in the eBike Flow app and the new ConnectModule installed on the eBike. The fee-based component is installed concealed on the eBike by a specialist retailer and contains a radio and GPS module, a separate battery and various sensors. The eBike Alarm can only be used once the ConnectModule has been installed.

Twelve months of free use

Users who decide to purchase a ConnectModule receive eBike Alarm for twelve months at no additional cost. After that, they can decide whether they want to continue using the digital service at a fee – eBike Alarm is not charged for automatically. After the free trial year, the feature costs 4.99 euros per month or 39.99 euros per year.

The ConnectModule is available from specialist retailers and eBike Alarm can be downloaded as part of the smart system via the eBike Flow app. The eBike Flow app can be downloaded from the relevant app store at no additional cost.

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Press release
Bosch eBike Systems

July 2022

Bosch eBike Systems expands its smart system
New drives, control units, features and a display, provide a more individual riding experience

- Even more flexibility: Bosch eBike Systems expands its smart system with the Cargo Line, Performance Line and Performance Line Speed drive units
- Relaxed riding: new Auto mode automatically adjusts support to environmental conditions
- Clean design: In the future eBikers will also be able to use the wireless Intuvia 100 display, or control their eBike via the minimalist System Controller and Mini Remote control units.
- Matching battery: PowerTube 500 and 625, as well as PowerPack 545 and 725, provide the right energy for every situation

Stuttgart/Reutlingen – new possibilities and even more flexibility: Bosch eBike Systems expands the smart system, introduced last year, with numerous new products and features in the 2023 model year. The smart system combines high-quality, interconnected components with practical features that can be continuously expanded through over-the-air updates. Therefore eBikes with the smart system become a part of everyday life and guarantee an even more individual riding experience.

"The smart system points the way to the future of eBikes. In the 2023 model year, we will be expanding the product range of the new system generation, enabling additional areas of application – from eCargo bikes to trekking bikes and speed pedelecs," says Claus Fleischer, CEO of Bosch eBike Systems. "With the new products and features, eBikers can further individualise their riding experience and take riding enjoyment to the next level."

Always comfortable on the road with the right drive unit and riding mode
Whether for transporting heavy loads, for leisure trips or for commuting – the smart system now offers the right drive unit for every usage situation. The **Cargo Line, Performance Line and Performance Line Speed** drives are now also part of the new system generation, alongside the Performance Line CX introduced

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last year. When picking up a child from daycare or doing the shopping with an eCargo bike, the Cargo Line provides powerful support. On excursions, eBikers with the Performance Line benefit from a natural riding sensation and a particularly quiet motor.
Commuters reach their destination more efficiently thanks to the Performance Line Speed, at speeds of up to 45 km/h.

Riding any type of eBike with the smart system is even more comfortable with the new **Auto mode**. In this riding mode, the support provided by the drive is automatically adapted to the environmental conditions, for example in the event of headwinds or uphill gradients, without eBikers having to exert more effort or switch riding modes. Being on the road with the eBike becomes even more relaxed and comfortable. Furthermore, Bosch is presenting the **Cargo mode**, a specially developed riding mode for eCargo bikes. With support of up to 400 percent, this is particularly suitable for trips with heavy loads. Despite the powerful support, starting remains very natural and easy.

Minimalist and robust control unit for an even cleaner eBike look
With the new **System Controller**, Bosch eBike Systems offers a slim control unit reduced to the essentials for the smart system. The control unit is the central interface between eBike and eBike Flow app, via which updates can be installed over-the-air. The System Controller can be seamlessly integrated into the top tube by the bike manufacturer and therefore fits in perfectly with the look of the eBike. In addition, it is protected from knocks and scratches in this position so is ideally suited for riding on trails. The control unit features two buttons and a deliberately limited number of functions – providing for a better overview. The buttons can be used to switch the eBike on and off and to switch riding modes. Thanks to the LED display, eBikers can see how much energy is still available from their battery and in the riding mode which they are riding. The soft-touch surface on the buttons prevents slipping and enables intuitive operation.

The System Controller is perfectly complemented by the **Mini Remote**, which is connected via Bluetooth. eBikers can easily retrofit the slim control unit and mount it on the handlebar themselves. The three additional buttons near the thumb mean that further functions such as the smart walk assistance with the new Hill Hold function, the eBike light or riding modes, can be easily used without having to take your hands off the handlebars. The Hill-Hold function automatically prevents the eBike from rolling back unintentionally. Riders then have ten seconds to activate walk assistance again before Hill Hold is deactivated.

Wireless display with intuitive operation

For users who want to focus even more on the road traffic in the city, Bosch eBike Systems offers the new **Intuvia 100** display for the smart system. It is simple and intuitive to use and its display is particularly easy to read thanks to a size of 2.5 inches and large font. The display clearly shows the eBiker relevant ride data such as battery charge level, distance, ride duration, range and speed. Intuvia 100 is wireless and connected with the LED Remote control unit via Bluetooth – so the rider's hands always remain safely on the handlebars. The shift recommendation also enhances comfort: It indicates whether eBiker should shift up or down a gear in order to enjoy the riding experience and make optimal progress.

The right battery for all requirements

many users wonder what the ideal battery would be. Not only for sporty trails, but also on lengthy trips or daily errands. To enable them to select an energy supplier perfectly tailored to their needs from the smart system in the future, Bosch eBike Systems has expanded its portfolio to include the **PowerTubes 500 and 625** as well as the **PowerPacks 545 and 725**. All of the PowerPacks are compatible with one another. Those who initially opt for a smaller battery can simply retrofit a larger one at a later date if required, provided the eBike manufacturer's installation solution allows for this.

New features further enhance the eBike experience

Bosch eBike Systems has increased the range of functions of the smart system in the digital area as well. The **eBike Flow app** – the heart of the smart system – offers eBike Alarm and other new features. eBikers will soon be able to import their routes via komoot and navigate along the waypoints via the navigation screen. Apple users can now also have their heart rate displayed on the smartphone's ride screen, thanks to Apple Watch connectivity.

From model year 2023, end customers will have the option of having a **digital service book**, which records service and maintenance work, kept by their specialist retailer. It can be printed out and handed over to them on request, because a well-maintained service book can increase the resale value of the eBike.

Product availabilities

From summer 2022:

- eBike ABS
- Cargo Line
- Performance Line
- Auto mode
- Cargo mode
- Hill Hold
- PowerTube 500 and 625
- eBike Flow App: Update komoot integration
- eBike Flow App: Update for Apple Watch user

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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 to the first production-ready ABS for eBikes and Connected Biking solutions. On the daily routes through the city, on leisurely rides through the countryside or for sporting 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, ensuring a unique riding sensation. 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 healthy, safe and sustainable mobility that is fun.*

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

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Press release
Bosch eBike Systems

July 2022

More performance, more fun: Bosch eBike Systems presents eMTB innovations

ABS Trail, minimalist remotes and Hill Hold function enhance the eMTB riding experience

- Developed with athletes: ABS Trail improves performance and increases riding enjoyment in challenging terrain
- Relaxed uphill climbs with walk assist: the practical Hill Hold function prevents the eBike from rolling back unintentionally on uphill climbs
- Clean design: new system controller and mini remote control units for sporty riding

Stuttgart/Reutlingen – Mountain biking has developed into a popular sport over the past 30 years. More and more people are now being drawn to the trails by eMountain bikes: according to the Zweirad-Industrie-Verband (ZIV - bicycle industry association), more than half a million eMTBs were sold in 2021 - almost five times more than mountain bikes without electric drive. Every third eBike sold in Germany is an eMountain bike.

"From beginners to casual bikers to tech-savvy trail enthusiasts, the eMountain bike community is now hugely diverse," says Claus Fleischer, CEO of Bosch eBike Systems. "This is also reflected in our new products and features, which we have tailored perfectly for sporty adventures in challenging terrain. We intend these to offer all eMountain bikers the individual best riding sensation and the ultimate Uphill Flow."

ABS Trail: specially designed with sporty adventures in mind

Whether you're a beginner or an experienced trail enthusiast - good braking technique is a key requirement for unlimited riding enjoyment on challenging trails. With the new ABS, Bosch eBike Systems presents the world's smallest ABS developed based on motorcycle technology. Bosch has worked with professional eMountain bike athletes in developing the ABS Trail application to meet the requirements and needs of sporty riders. In technically difficult passages, such as areas of exposed roots, eMountain bikers can now use the

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brake more actively. The new eBike ABS Trail automatically adjusts the brake pressure on the front wheel to effectively match the surface. This enables them to refine their riding technique even further improving their performance on the trails, while enjoying a safer ride.

ABS Trail helps eBikers to focus on the essentials in tricky sections, such as stony passages or areas with exposed roots. In technical passages they are more controlled and relaxed on the road. Therefore requiring less energy to bring the right braking pressure to bear on the surface. This means they can enjoy their flow for even longer on trail descents. In addition, ABS Trail helps optimise the transfer of body weight. Because the application reliably controls braking force, fewer braking manoeuvres involving shifting weight to the rear are required.

Evaluating and successively improving braking behaviour

The Kiox 300 display can also be used to call up data on the last braking operation. Information on braking distance or braking time enables eBikers to develop a feel for how different surfaces affect braking distance - in this way, their own personal braking behaviour can be successively improved. When not riding on sporty routes, eMountain bikers can switch to ABS Allroad mode via the eBike Flow app and Kiox 300. This is optimised for riding on unpaved roads and also allows newcomers to eMountain biking to brake in a more controlled way on loose surfaces.

Relaxed uphill climbs: Hill Hold means there is no danger of rolling back on slopes

In alpine terrain, sometimes narrow, blocked trails are the only way to reach your destination, so the only choice is to push the eMTB. For greater safety in such situations, last year Bosch eBike Systems already introduced Walk Assist in the smart system. This switches on the motor support when pushing your eBike uphill simply by pressing a button on the LED Remote or Mini Remote.

The new Hill Hold feature now takes smart walk assist to the next level: If eBikers change their grip on the handlebars or have to stop pushing for a moment, the eBike is immediately and automatically prevented from rolling back unintentionally - without having to use the brake. Riders then have ten seconds to activate walk assist again before Hill Hold deactivates.

System controller: seamlessly integrated and slim in design

The new system controller from Bosch eBike Systems is a slim control unit for the smart system, that is reduced to the essentials. This can be seamlessly integrated into the top tube, protecting it from scratches and knocks - ideal for

sporty rides. The different colours of the riding mode LED, each represent a different riding mode. The five LEDs indicate the battery charge level: if they all light up ice blue, the battery is 100 percent charged. If an LED turns white, this means the charge level has decreased by ten percent. Quick overview, greater focus on the trail.

Whether the sun is blazing down on the trail or your path takes you through dense forest, the integrated ambient light sensor ensures the best possible readability. It automatically adjusts the brightness of the LEDs to the current lighting conditions. The most important functions of the eMountain bike can be controlled with just two buttons on the system controller, their soft-touch surface (in the area of the buttons) preventing slipping and facilitating intuitive operation.

Mini Remote: A perfect addition with more functions

To enable the system controller to be operated even more safely and conveniently, Bosch offers the small Mini Remote operating unit as an additional product. It can be easily retrofitted and independently mounted on the handlebars. The three additional buttons near the thumb mean that further functions such as the smart push-assist with the new Hill Hold function, the eBike light or riding modes can be easily used without having to take your hands off the handlebars. If the Mini Remote is installed, a Bosch eBike display or your own smartphone can also be used and controlled in conjunction with the SmartphoneGrip. Thanks to the Bluetooth link between the Mini Remote and system controller, everything works completely wirelessly, further emphasising the minimalist eMTB look.

The new products and functions are available from specialist retailers or as updates over-the-air via the eBike Flow app.

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Press release
Bosch eBike Systems

July 2022

Smarter and safer: eCargo Bikes with Bosch drives
Sustainably on the move, on cargo bikes with the smart system

- Fully networked components, useful features: The advantages of the smart system now also available for the eCargo Bike
- Easier to start, more convenient to transport: New ABS and new riding mode are specially adapted to the requirements of eCargo bikes
- Even more power: The powerful PowerPack 725 battery allows eBikers to cover even longer distances with their cargo bike fully loaded.
- Carefree parking: New digital theft protection for the eCargo Bike with eBike Alarm

Stuttgart/Reutlingen – The eCargo Bike is an indispensable component of the urban mobility of the future. In fact, it is already becoming increasingly popular as a sustainable alternative to the car: According to Germany's Zweirad-Industrie-Verband (ZIV - bicycle industry association), around 120,000 eCargo bikes were sold in Germany in 2021, 53 percent more than the previous year. It has become a lifestyle product that is seen particularly often on cycle paths and streets in trendy city neighbourhoods. For good reasons: Cargo bikes do not release harmful emissions into the atmosphere, combining freedom from noise with a small footprint. They offer flexible, resource-saving and self-determined mobility.

Now customers can enjoy the advantages of the smart system with the eCargo

Bosch eBike Systems is driving this development and making cargo bikes even safer and easier to ride - with the smart system. The latest system generation for eBikes, with fully networked components and useful functions, ensures even more comfort, safety and sustainability. eCargo bikers can update their cargo bike over-the-air and also use new features.

"We are supporting the new trend in mobility by making the eCargo bike smarter and safer", says Claus Fleischer, CEO of Bosch eBike Systems. "Cargo bikes – thanks largely to our products and features – are a real alternative to cars."

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Easier to start, more convenient to transport

The **Cargo Line** is now also available in the smart system and with a torque of up to 85 Nm, delivers powerful but natural support in every riding situation. Even when the eCargo Bike is loaded with shopping or children, transport is easy. **Cargo mode**, which was developed specifically for this drive unit, offers support of up to 400 percent of the power output and ensures that eBikers can start, accelerate smoothly and comfortably, even when carrying a full load. When going uphill, eBikers simply touch a button to get support from the smart walk assistance function, which makes it more comfortable and safer for them to push the eBike uphill. The integrated **Hill Hold** function automatically prevents the eCargo bike from rolling, out of control, backwards or downhill. For longer transport distances, or when heading for a picnic in the park, the **PowerPack 725** battery is particularly practical. It has the highest energy content of all Bosch PowerPacks and therefore enables a particularly long range, even with a heavy load.

Greater safety when riding, braking and parking

Especially when travelling with children, or with heavy shopping, the optimal braking performance of the eCargo Bike is important for safety on the road. To enable eBikers to brake even more safely in critical braking situations, Bosch eBike Systems has developed the **ABS Cargo** function specifically for eCargo bikes. It can prevent the front wheel from locking, shorten the braking distance and reduce the risk of having an accident.

The **eBike Alarm** function also increases safety for the bike. It provides digital theft protection, in addition to the mechanical lock, when parking the eCargo Bike. It is always active, following initial installation with an existing GPS connection, even when the eBike system is switched off. If eBike Alarm detects slight movements, the function reacts with several short warning tones as a deterrent. If it detects stronger movements, eBike Alarm alerts the surrounding area to the attempted theft by emitting a clearly perceptible alarm tone and sends a notification to your smartphone. At the same time, the Tracking function starts to track the eBike location. To use eBike Alarm, the eBike Lock feature must be activated in the eBike Flow app and the new ConnectModule must be installed on the eBike. The key to digital theft protection is the eBike Flow app for the smartphone.

Easy navigation and route planning

The eBike Flow app also controls all functions of the smart system and even offers **navigation and route planning**, so that you can easily find your way around. Together with the **SmartphoneGrip**, which turns your smartphone into an eBike display and attaches securely to the handlebar, eCargo bikers can keep

an eye on all their riding data. With the LED Remote control unit, they can call up functions, such as the navigation or ride screen, while riding but without having to take their hands off the handlebar.

All products and features are available from retailers or can be downloaded using the eBike Flow app.

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